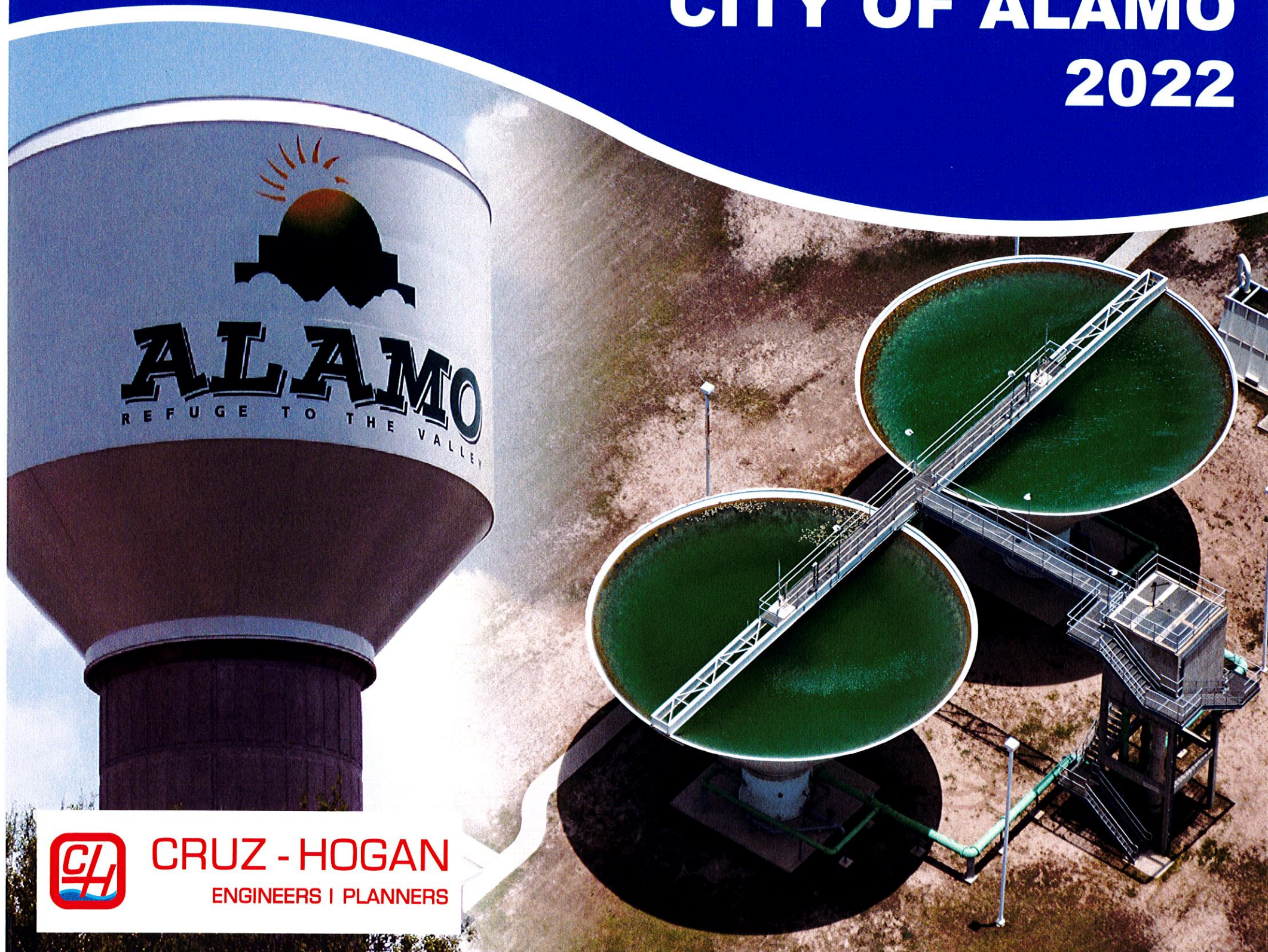


WATER AND WASTEWATER MASTER PLAN

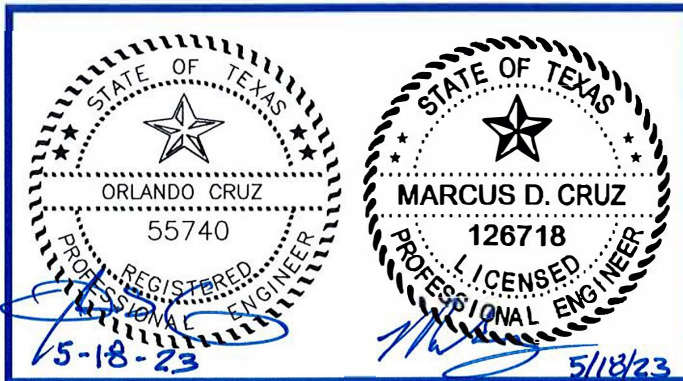
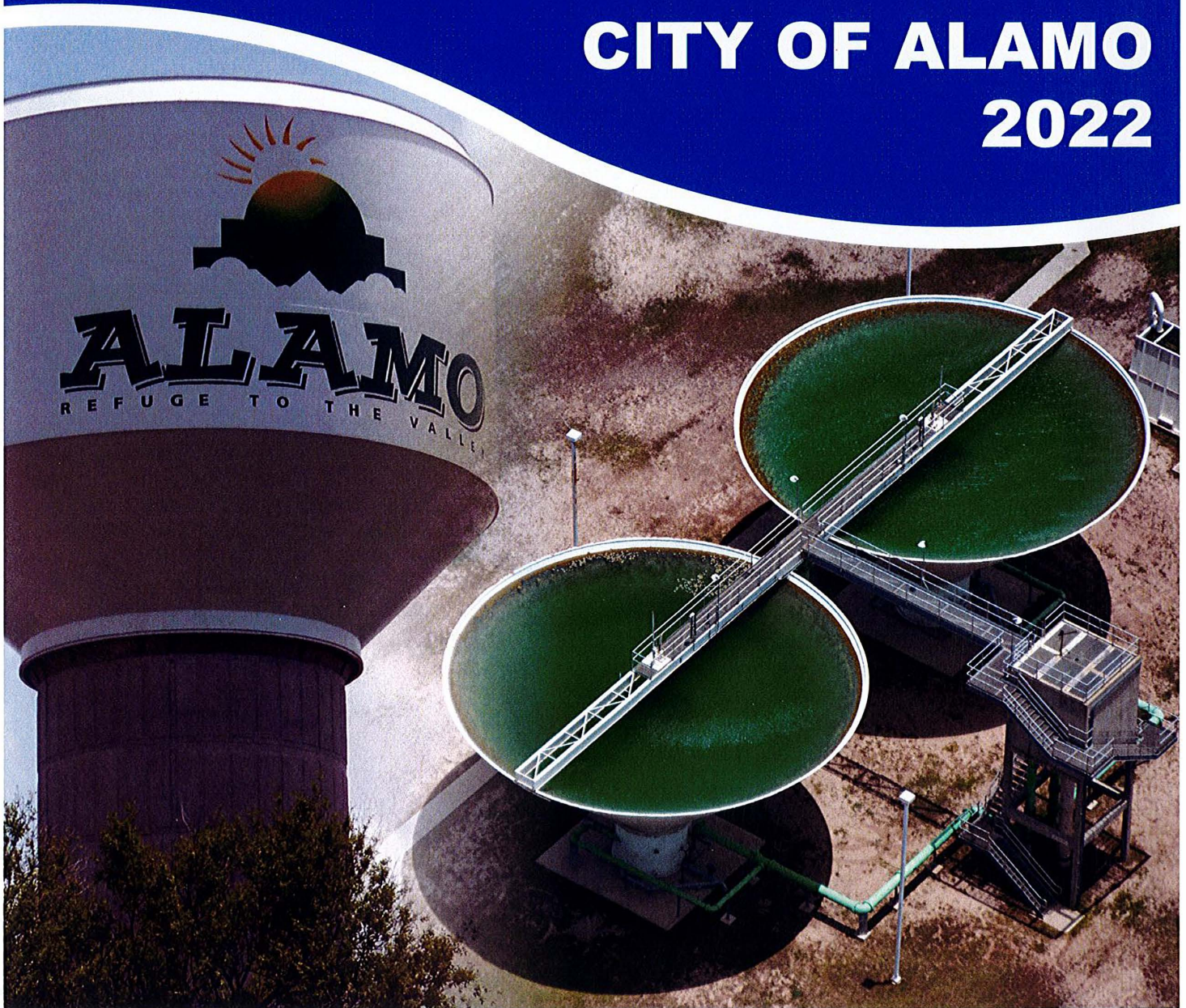
CITY OF ALAMO
2022



CRUZ - HOGAN
ENGINEERS | PLANNERS

WATER AND WASTEWATER MASTER PLAN

CITY OF ALAMO 2022



PREPARED BY

CRUZ - HOGAN
ENGINEERS | PLANNERS

MCALLEN | WESLACO | HARLINGEN
FIRM REGISTRATION No. F-4860
2022

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Appendix 1

Tower Road Tank Pressure Data
North Tank Pressure Data
South Tank Pressure Data

Appendix 2

Hydraulic Modeling Results

EXECUTIVE SUMMARY

INTRODUCTION

The City of Alamo is located in the Rio Grande Valley of south Texas and is divided in half by Expressway IH2 and it is bordered by the City of Edinburg to the North, the City of San Juan to the East, the City of Donna to the west, and the Rio Grande to the South.

The City of Alamo is experiencing steady growth due to recent residential development as well as consistent economic activity.

It is expected that the City will continue to see an increase in residential and commercial development; this growth is placing increased demands on the City's water and wastewater systems.

To adequately plan and prepare for these projected needs, the City Commission has authorized the preparation of this planning study which would enable the City to responsibly plan for the anticipated future growth. To adequately plan and prepare for the expected developmental growth, the City of Alamo is working to make sure that the planning for necessary improvements concerning water and wastewater is timely addressed.

The goal of this water and wastewater master planning study is to develop a plan to ensure adequate and economical water and wastewater services through the year 2037.

To ensure that these goals are achieved, this plan will provide information showing a 5-year projection which includes capital improvements which will need to be implemented prior to the year 2027.

Additionally, a 15-year capital improvement plan was developed. The 15-year capital improvement plan was divided into two separate periods. The first five-year period includes capital improvements that would need to be implemented prior to year 2032; and a second five-year period that includes capital improvements which would also need to be implemented and completed prior to year 2037.

SCOPE OF WORK

The objective of this report is to analyze the existing water and wastewater systems to determine necessary upgrades to meet requirements mandated by the State Regulatory Agencies.

- Collect data
- Project land use for the planning years
- Develop a water master plan
- Develop a wastewater master plan
- Develop an implementation plan for the water and wastewater master plans.
- Prepare a water and wastewater master plan report
- To assure the goals will be achieved, the Study Plan will provide information showing the recommended Capital Improvement Plan (CIP) for both the water and wastewater systems.

BASIS OF PLANNING

The planning area of the study includes the area within the current city limits boundaries which lie in the City's Water and Sewer Certificated (CCN) areas.

Planning for the areas within the City that lie in either the Military Highway Water Supply Corporation or the North Alamo Water Supply Corporation water and sewer CCN areas are not included in this study. Since the City's CCN areas extend beyond the City's corporate limits, neither census data nor the TWDB population projections were used; instead, the City used historical water and wastewater connection counts. The historical connection counts indicated a connection growth of approximately 2% over the past 3 years.

Future connection projections used in the study report were lowered due to the remaining developable areas remaining in the City's CCN area.

A historical growth factor of 2.0% per year from year 2022 through 2027 and due to a declining area in the CCN areas available for development, a connection growth factor of 1.5 % from 2027 through 2037 was used for projections in the master report.

ANALYSIS OF EXISTING WATER SYSTEM

The following concerns about the existing water system were identified:

- The City needs additional raw water allocations from the Hidalgo County Irrigation District or it must buy water rights to meet existing water treatment system demands, and to accommodate future growth.
- The existing water treatment plant is in need of immediate rehabilitation and expansion to meet both current and future treatment demands.
- Existing waterlines in parts of the City are undersized, causing significant pressure losses with limiting available fire flows.
- Existing old asbestos and old PVC waterlines, servicing as distribution or transfer lines, are in need of immediate replacement due to the number of frequent repairs the City is currently addressing.
- Many undersized lines in the water distribution systems that are limiting water flows and pressures need to be replaced/upgraded.

WATER SYSTEM MASTER PLAN

Hydraulic analyses of the existing water system were performed to identify and support development solutions to the system deficiencies

1. Low water pressure areas.
2. Fire flow capacities.
3. Overall system functionality.

CAPITAL IMPROVEMENTS WATER PLAN

The recommended 5-year Capital Improvement Plan includes the following summary of improvements projects:

- Acquisition of 500 acre-feet of raw water rights to supplement the raw water rights currently owned by the City.
- Rehabilitation and expansion to the existing water treatment plant facility to address TCEQ plant conditions.
- A 2.5 MGD expansion to the existing water treatment plant facility to meet current water treatment plant demands, and to meet TCEQ capacity requirements.

- Replacement of archaic water transfer and distribution lines constructed out of asbestos cement, or currently experiencing distress.
- Replacement of existing undersized waterlines to increase water pressures, and water flows.
- Installation of new waterlines and mains to alleviate existing water pressure deficiencies and water flows, especially in anticipated growth areas. This measure will include looping of waterlines.

Map No. 3-5, which is included in following sections of the master study, shows the locations of the prioritized water system capital improvements plan.

The recommended 15-year Capital Improvements Plan, **first five-year period**, includes the following summary of improvements projects:

- Acquisition of an additional 500 acre-feet of raw water rights to supplement the raw water rights currently owned by the City.
- Replacement of existing water transfer and distribution lines which are old, constructed out of asbestos cement or currently experiencing distress.
- Replacement of existing undersized waterlines to increase water pressures, and water flows.
- Installation of new waterlines and mains to alleviate existing water pressure deficiencies and water flows, especially in anticipated growth areas. This measure will include waterline looping.

Map No. 3-6, which is included in following sections of the master study, show the locations of the prioritized water system capital improvements plan.

The recommended 15-year Capital Improvements Plan, **second five-year period**, includes the following summary of improvements projects:

- Acquisition of an additional 500 acre-feet of additional raw water rights to supplement the raw water rights currently owned by the City.
- Continued replacement of archaic water transfer and distribution lines constructed out of asbestos cement, or currently experiencing distress.
- Replacement of existing undersized waterlines to increase water pressures, and water flows.

- Installation of new waterlines and mains to alleviate existing water pressure deficiencies and water flows, especially in anticipated growth areas. This measure includes the looping of waterlines.

Map No. 3-7, which is included in following sections of the master study, shows the locations of the prioritized water system capital improvements plan.

The Capital Costs of the recommended water plan are summarized below:

Improvement Categories	5-year Capital Cost	15-year Capital Cost (First 5 Year Period)	15-year Capital Cost (Second 5 Year Period)
Raw Water Acquisition	\$ 1,500,000	\$ 1,500,000	\$ 1,500,000
Treatment Plant Rehabilitation and 2.5 Expansion	\$ 9,500,000	\$ 0.00	\$ 0.00
Waterlines and Mains	\$ 5,590,000	\$1,750,000	\$ 2,900,000

Note: Capital costs are expressed in 2022 dollars

WASTEWATER SYSTEM MASTER PLAN

The City is currently completing the construction a new 2.0 million gallons per day (mgd) wastewater treatment plant and is planned to be put into operation at early year 2023. The existing wastewater treatment plant is being planned to be abandoned and decommissioned.

Since the City just completed a new wastewater treatment plant, any improvements or expansion requirements were not analyzed for this master study.

The City currently maintains 26 lift stations that convey wastewater through a system of force mains and gravity sewers to the City's wastewater treatment plant. There is one lift station (LS # NA 1) located on the northern section of the

City and adjacent to Audie Murphy School which is owned and maintained by the North Alamo Water Supply Corporation. The lift station provides flows to the wastewater treatment plant, and the flows are collected through the collection system.

The basic strategy which is presented in this master study is for the City to have available information and data of the wastewater collection system to plan for the rehabilitation and or replacement of the lift stations; collection lines and other wastewater systems; and to plan for the installation of new force mains and gravity sewers to carry the anticipated flows.

CAPITAL IMPROVEMENTS WASTEWATER PLAN

The recommended **5-year** Capital Improvements Plan includes the following summary of improvement projects:

- Replacement of one existing lift station.
- Rehabilitation of three existing lift stations.
- Enlargement and replacement of one existing lift station force main.
- Replacement and rehabilitation of approximately 12,300 linear feet of wastewater collection system gravity sewer clay lines.
- Rehabilitation of approximately 60 brick constructed manholes

Map No. 5-9, which is included in following sections of the master study, show the locations of the prioritized wastewater system capital improvements plan.

The recommended **15-year** Capital Improvements Plan, **first five-year period**, includes the following summary of improvements projects:

- Rehabilitation of three existing lift stations.
- Decommission of one existing lift station.
- Replacement and rehabilitation of approximately 15,400 linear feet of wastewater collection system gravity clay sewer lines
- Rehabilitation of approximately 72 brick constructed manholes.

Map No. 5-10, which is included in following sections of the master study, shows the locations of the prioritized wastewater system capital improvements plan

The recommended **15-year** Capital Improvements Plan, **second five-year period**, includes the following summary of improvements projects:

- Rehabilitation of one existing lift station.
- Decommission of one existing lift station.
- Replacement and rehabilitation of approximately 7,200 linear feet of wastewater collection system gravity clay sewer lines.
- Rehabilitation of approximately 19 brick constructed manholes.

Map No. 5-11, which is included in following sections of the master study, shows the locations of the prioritized water system capital improvements plan.

The Capital Costs of the recommended wastewater plan are summarized below:

Improvement Categories	5-year Capital Cost	15-year Capital Cost (First 5 Year Period)	15-year Capital Cost (Second 5 Year Period)
Rehabilitation of Existing Lift Stations	\$ 1,850,000	\$ 1,300,000	\$ 1,500,000
Replacement of New Lift Station	\$ 1,800,000	\$ 0.00	\$ 550,000
Decommission of Existing Lift Stations	\$ 0.00	\$ 650,000	\$ 500.00
Gravity Sewer Line Upgrades	\$ 3,150,000	\$ 2,950,000	\$ 2,450,000
Force Main Line Enlargement	\$ 800,000	\$ 0.00	\$ 0.00

Note: Capital costs are expressed in 2022 dollars

IMPLEMENTATION PLAN

All recommended projects have been properly prioritized. There are three groupings of projects, and priorities within the 5-year and 15-year projects.

FUNDING PLAN

It is likely that the City will have to fund the recommended projects using a combination of the following funding sources:

- Revenue Bonds
- Texas Water Development Board State Revolving Loan and Grant Funds
- Hidalgo Urban County Program Grants
- Tax Increment Reinvestment Zone (TIRZ) Funding

INTRODUCTION

SECTION 1

1.1 BACKGROUND

The City of Alamo is experiencing steady growth due to area economic development activity and will likely continue to see an increase in commercial traffic and commercial development.

To adequately plan and prepare for this developmental growth, the City of Alamo is planning for necessary improvements concerning water and wastewater. To accomplish these goals, the City has contracted Cruz-Hogan Consultants, Inc. to develop a Water and Wastewater Planning Study that would enable it to plan and prepare for such anticipated growth for the next 10 years for water service; and wastewater service demands for the next 15 years. To ensure that these goals are achieved, this plan will provide information showing 5-year and 15-year capital improvement plans for the water system; and 5-year and 15-year capital improvement plans for the wastewater system.

1.2 OBJECTIVES

The goal and purpose of this water and wastewater master plan study is to develop a plan to ensure adequate and economical water and wastewater services for the next 15 years. To support this goal, the report breaks down the timeline into 5-year and 15-year capital improvement plans (CIP) and implementation plan for the water system and the wastewater system into 5-year and 15-year projects for the period of 2022 to 2037. The 15-year CIP was phased into 5 year periods. .

1.3 DESCRIPTION OF PLANNING AREA

The planning area taken into consideration for this report lies within the City of Alamo's water and sewer CCN boundary limits. The CCN service areas mostly lie within the City of Alamo city limits, but do extend out further than the City limits in some areas.

1.4 SCOPE OF WORK

Cruz-Hogan's scope of work that was performed for the City of Alamo for the Water and Wastewater Master Plan Study is outlined below:

1.4.1 Data Compilation and Review

Meet with City Staff to discuss existing data and other sources of information useful for the study.

Meet with department supervisors to discuss more detailed topics that could impact the study.

Prepare questionnaires requesting information concerning water and wastewater systems from the City staff.

Conduct research for available information from other entities or organizations such as TWDB, TCEQ, Texas State Data Center, and the Bureau of the Census.

Survey of existing water and wastewater systems to determine current status and needs.

Use and review of current aerial photographs of the Alamo area (2022).

1.4.2 Land Use Planning

Use City of Alamo's existing base and zoning map to create an electronic drawing file land use map.

Meet with City staff to discuss expected areas of growth and development.

Use aerial satellite images to survey existing land use areas.

Conduct visual survey of the City.

Collect survey data of the area to make assumptions of population distribution.

1.4.3 Water System Master Plan

Use existing City of Alamo's base map to develop water and wastewater system maps.

Determine water demand factors by analyzing water bill records.

Compare future water needs with current water right agreements for water supply.

Prepare a water service area map showing all surrounding boundaries.

Model water system network using WaterCAD software.

Make arrangements with City staff to check line pressures, reservoir levels, and elevated storage tank levels to calibrate the model.

Identify areas of required improvements to address the deficiencies of the water system.

Develop and model improvement skeletal system for the areas with future growth development based on 5-year and 10- year plans for the water system; and 5-year and 15-year plans for the wastewater.

1.4.4 Implementation Plan

Prepare and implement a plan for the capital improvements in the water and wastewater master plan based on a 5-year, 10-year, and 15-year period determined by the water model and the survey information for the wastewater system.

Determine capital, operating, and maintenance costs for each project and provide summarized costs for each fiscal year.

Prepare a funding plan that identifies potential grants and financing assistance, which may be available from the state and/or federal governments.

Prepare an implementation schedule for financing and project execution.

1.4.5 Water and Wastewater Plan Report

Prepare a water and wastewater plan report that includes:

- Introduction describing planning objectives and scope of work.
- Provide details of the process of data acquisition, programs/software used, regulation requirements considered, planning area determined for improvements, and other factors that affect this report.
- Current conditions of the existing systems and the most critical deficiencies.
- 5-year plan of improvements that describe the determined projects and related costs.
- 15-year plan of improvements in two 5-year planning segments that describe the determined projects and related costs.

Included with the report, maps, drawings, and graphical data are provided as follows:

WATER MASTER PLAN

- Existing 2022 Existing Water Certificate of Necessity (CCN) Map (Map No. 2-1)
- Water Treatment Plant Process Flow Diagram (Figure 2-1 & 2-2)
- Year 2022 Existing Water System Map (Map No. 2-2)
- 2022 Existing Waterlines Currently Experiencing Breakage (Map 2-3)
- Year 2022 Existing Location of Undersized Waterlines (Map No. 2-4)
- Year 2002 Waterline Skeletal System (Map No. 2-5)
- Year 2022 Land Use Map of CCN Area (Map No. 3-1)
- Year 2027 Land Use Map of CCN Area (Map No. 3-2)
- Year 2032 Land Use Map of CCN Area (Map No. 3-3)
- Year 2022 Existing Waterline Needing Replacement (Map No.3-4)

- Year 2027 Waterline Improvement (Map No.3-5)
- Year 2032 Waterline Improvement (Map No.3-6)
- Year 2027 Waterline Improvement (Map No.3-7)

WASTEWATER MASTER PLAN

- Existing 2022 Existing Sewer Certificate of Necessity (CCN) Map (Map No. 4-1)
- Year 2022 Wastewater Collection System (Map No. 4-2)
- 2022 Wastewater Treatment Effluent Flows (Figure 4-1)
- Existing Lift Station Schematic Flow Diagram (Map No.4-3)
- Existing Lift Station Direct Service Areas and Number of Active Wastewater Connections (Map No.4-4)
- Existing Major Lift Station Overall Service Areas (Map No. 4-5)
- Lift Station Flow Diagram (Figure 4-2)
- Existing Gravity Lines Needing to be Replaced (Map No. 4-6)
- Year 2022 Land Use Map (Map No. 5-1)
- Year 2027 Land Use Map (Map No. 5-2)
- Year 2032 Land Use Map (Map No. 5-3)
- Year 2027 Lift Station Schematic Flow Diagram (Map No. 5-4)
- Year 2032 Lift Station Schematic Flow Diagram (Map No. 5-5)
- Year 2027 Major Lift Station Improvements (Map No. 5-6)
- Year 2032 Existing Sewer Lines Needing to be Replaced and Rehabilitated (Map No. 5-7)

- Year 2032 Major Lift Stations Improvements (Map No. 5-8)
- Year 2032 Existing Sewer Lines Needing to be Replaced and Rehabilitated (Map No. 5-9)
- Year 2037 Major Lift Station Improvements (Map No. 5-10)
- Year 2037 Existing Sewer Lines Needing to be Replaced and Rehabilitated (Map No. 5-11)
- Year 2032 Existing Sewer Lines Needing Replacing and Rehabilitated (Map No. 5-9)
- Year 2032 Major Lift Stations Improvements (Map No. 5-10)
- Year 2037 Existing Sewer Lines Needing Replacing or Rehabilitated (Map No. 5-11)

TABLE 1-1 ABBREVIATIONS

Abbreviation	Explanation
CIP	Capital Improvements Plan
CCN	Certificate of Convenience and Necessity
EPS	Extended Period Simulation
ETJ	Extraterritorial Jurisdiction
FF	Fire Flow
gpcd	Gallons per Capita per Day
gpd	Gallons per day
gpm	Gallons per minute
mg/L	Milligrams per Liter
Mgal	Million gallons
mgd	Million gallons per day
psi	Pounds per square inch
STD	Steady-State
TxDOT	Texas Department of Transportation
TCEQ	Texas Commission on Environmental Quality
TWDB	Texas Water Development Board
CWSRF	Clean Water State Revolving Fund
DWSRF	Drinking Water State Revolving Fund

ANALYSIS OF 2022 ALAMO WATER SYSTEM

SECTION 2

2.1 INTRODUCTION

This section provides an overview of the City of Alamo (City) water supply, treatment, and distribution system that was in place in 2022 at the start of the water master plan project. Existing water system deficiencies that were identified by the City early in the project, and problems identified during the preparation of this report are described and analyzed. Recommended projects for correcting system deficiencies are presented in this section. Analyses included a review of the existing system to determine compliance with applicable regulations, and hydraulic modeling of the water distribution system.

Projects that are required in order to meet future water system demands for the planning years 2027, 2032, and 2035 are developed. Supporting data for this section, including the water system modeling methodology, is included within this report.

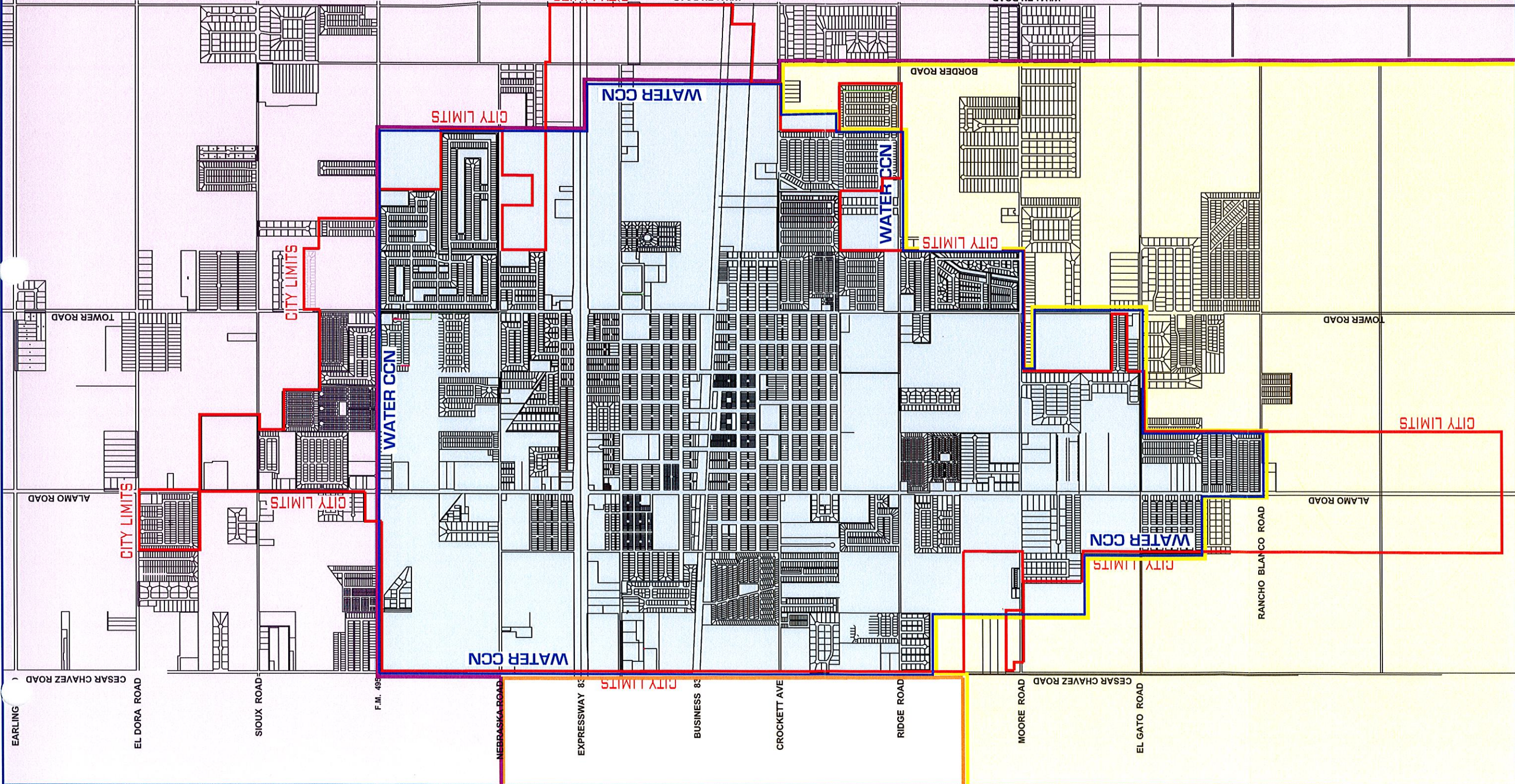
2.2 DESCRIPTION OF 2022 WATER SERVICE AREA

The City of Alamo's 2022 Certificated of Convenience and Necessity (CCN) water service area is shown in **Map 2-1**. Currently there are approximately 6,052 residential/commercial water service connections within the City's water service area. The entire existing water service area is within the City limits.

2.3 RAW WATER SUPPLY AND USAGE

2.3.1 Water Rights Allocation and Supply

The City of Alamo is currently supplied raw surface water from the Falcon Reservoir on the Rio Grande. Raw water is diverted from the Rio Grande by the Hidalgo County Irrigation District No. 2 (HCID2) through a series of pumping stations, canals, and pipelines; and delivers raw surface water to the City's water treatment plant raw water reservoir.



LEGEND

	CITY OF ALAMO WATER SERVICE AREA (CCN)
	MILITARY HIGHWAY WSC WATER SERVICE AREA (CCN)
	CITY OF SAN JUAN WATER SERVICE AREA (CCN)
	NORTH ALAMO WSC WATER SERVICE AREA (CCN)

LEGEND

	CITY OF ALAMO CITY LIMITS
	CITY OF ALAMO WATER SERVICE AREA

CITY OF ALAMO
WATER AND WASTEWATER MASTER PLAN
2022 EXISTING WATER CCN
AND CITY LIMIT MAP



CRUZ - HOGAN
 ENGINEERS | PLANNERS
 McAllen | Harlingen | Weslaco

MAP No.
2-1

A Final Water Judgment in Valley Water Suit and the subsequent Certificate of Adjudication No. 23-808, granted water rights to the HCID2 by the then Texas Water Commission (now the Texas Commission on Environmental Quality (TCEQ)). The Water Rights Adjudication authorized the HCID2 to divert allocated water rights under the Certificate of Adjudication and deliver 1,202.5 acre-feet of raw water to the City. Subsequently, a Permanent Water Supply Contract between the HCID2 and the City of Alamo was entered into in 1969. The Permanent Water Supply Contract allocated the 1,202.5 acre-feet of raw water to the City of Alamo. Additionally, this agreement allocated an additional 375.372 acre-feet through unilateral subdivision exclusions.

Subdivision exclusion removes *irrigation* land water rights and converts it to *municipal* use when the City approves subdivisions having allocated irrigation rights. Water supplied to the City are converted by HCID2 into water rights having municipal priority.

The HCID2 periodically amends the Permanent Water Supply Contract through the issuance of a Water Supply Agreement. The last Water Supply Agreement was executed on October 2, 2008. This Water Supply Agreement amends the Permanent Water Supply Contract to include that the City can purchase up to a maximum of 1,600 acre-feet of municipal water rights per annum should the City deplete the water rights allocation currently held by the Water District. In this Agreement, the City agrees to pay the Irrigation District the amount of \$50.00 per acre-foot. In later agreements, the cost was increased to \$60.00 per acre-foot.

Over the past years, the Irrigation District has allocated additional water to the City through the subdivision exclusion process. Currently, the City has a total of 960.8835 acre-feet of additional municipal water allocated through this process.

Currently, the Irrigation District has a total of 2,163.34 acre-feet of municipal raw water allocated for City use.

The Irrigation District charges the City a water delivery charge to deliver water to the City's raw water reservoir. Currently the water delivery charge is \$0.15730 per 1,000 gallons. This amount is periodically revised with the issuance of amended Water Supply Contracts by the HCID2.

The City is supplied raw water by the HCID2 through a 24-inch diameter pipeline located on 9th Street that leads into the City's existing water treatment plant raw water reservoir. The 24-inch diameter pipeline diverts raw water to Alamo from the Irrigation District's existing east-west 36-inch diameter transmission main located south of Ridge Road. The City's raw water reservoir is located adjacent to the site of the City's existing water treatment plant.

2.3.2 Current Raw Water Rights Allocation Inventory

Existing raw water rights held by HCID2 for the City total 2,166.33 ac-ft per year.

The current inventory of raw water allocation are categorized as follows:

Certificate of Adjudication No. 23-808: 1,202.5 ac-ft (in name of HCID2)

*Water allocations acquired through
subdivision exclusions:* 960.835 ac-ft (in name of HCID2)

Total Water Rights currently available to the City: 2,163.33 ac-ft

2.3.3 Raw Water Allocation - Historical Data

Historically, the City has exceeded their water allocation reserved and supplied by the Irrigation District. The City, on a yearly basis, has historically had a need to purchase additional water to meet the water treatment demands of the City.

The raw water allocations for the years 2016 through 2022 had allocation deficits ranging from approximately 600 acre-feet to 2,000 acre-feet.

Historical annual raw water metering records, water supply allocations, and water supply use for the period of 2016 through 2022, are shown in **Table 2-1**.

TABLE 2-1

Raw Water Allocation Historical Usage

YEAR	Raw Water Used (Gallons)	Raw Water Used (Ac-Ft)	Raw Water Rights Allocation By HCID2 (Ac-Ft)	20% Water Delivery Losses (Ac-Ft)	Total Raw Water Allocation Available From HCID2 (Ac-Ft)	Total Water Allocation Deficit (Ac-Ft)	Raw Water Purchased by City (Ac-Ft)	Raw Water Purchased with 20% Delivery Losses (Ac-Ft)	Total Water Allocation Excess/Deficit After Purchasing Additional Water (Ac-Ft)
2018	716,040,000	2,197.44	2,092.14	(418.43)	1,673.71	(523.73)	1,000.00	800.00	276.27
2019	750,410,000	2,302.92	2,096.98	(419.40)	1,677.58	(625.34)	1,000.00	800.00	174.66
2020	813,300,000	2,495.92	2,098.70	(419.74)	1,678.96	(816.96)	1,000.00	800.00	16.96
2021	669,904,000	2,055	2,163.34	(432.67)	1,730.67	(516.45)	500.00	400.00	116.45
2022	1,260,360,000	3,867.90	2,163.34	(432.67)	1,730.67	2,137.23	2,500.00	2,000.00	137.23

Based on Invoicing from HCID#2

2.3.4 Raw Water Allocation Usage - Historical Data

Historical Water Allocation usage is shown on **Table 2-2** for years 2019 through 2021. These usage amounts are based on the City’s raw water meter located at the entrance of the City’s water treatment plant raw water reservoir. The meter is read by Hidalgo County Irrigation District.

**TABLE 2-2
Raw Water Allocation Records**

MONTH	2019 Raw Water Pumping Monthly Total		2020 Raw Water Pumping Monthly Total		2021 Raw Water Pumping Monthly Total		2022 Raw Water Pumping Monthly Total	
	(MGal)	(Ac-ft)	(MGal)	(Ac-ft)	(MGal)	(Ac-ft)	(MGal)	(Ac-ft)
January	48.54	148.96	40.59	124.57	62.29	191.16	73.53	225.73
February	61.68	189.29	70.97	217.80	46.57	142.92	61.98	190.26
March	75.05	230.32	57.41	176.18	44.21	135.68	73.08	224.28
April	55.05	168.94	60.92	186.96	46.39	142.37	76.21	233.88
May	52.17	160.10	97.79	300.11	43.02	132.02	79.33	243.46
June	62.42	191.56	72.82	223.48	46.49	142.67	79.51	244.01
July	52.16	160.07	33.35	102.35	78.76	241.71	93.97	288.40
August	101.18	310.51	66.69	204.66	43.18	132.51	81.11	248.93
September	36.34	111.52	67.71	207.79	95.48	293.02	70.05	214.97
October	67.65	207.61	100.33	307.90	77.72	238.51	75.731	232.41
November	90.19	276.78	89.32	274.11	58.17	178.52	70.92	217.65
December	47.98	147.25	20.70	63.53	52.82	162.10	68.58	210.47
Annual Subtotal (MGal)	750.41	-----	778.60	-----	695.10	-----	904.06	-----
Annual Subtotal (Acre-feet)	-----	2,302.92	-----	2,389.44	-----	2,133.18	-----	2,774.44

Note:

1. One acre-foot is the volume of water sufficient to cover an acre of land to a depth of one foot. Acre-Ft is approximate 325,851 gallons.
2. Raw Water supplied by Irrigation District 20% water delivery loss is not included in the amounts above.

2.3.5 Ground Water Well

The City owns and operates one ground water well currently located at the City's water treatment plant site. The ground water pumps and discharges into a raw water reservoir that is located adjacent to the water treatment plant. Additionally, the pump also provides irrigation water for adjacent City park facilities. Since the ground water being pumped is only metered at the pump location, the amount of water directed to the raw water reservoir and to the park cannot be accurately accounted. However, based on information provided by the City, 50 percent of the total ground water pumping is being allocated to the water plant raw water reservoir and the other 50 percent for park irrigation.

The ground well pump is estimated to pump at a rate of 100 gpm.

The pumping amounts of the ground water well for years 2019, 2020, and 2021 are shown below on **Table 2-3**.

TABLE 2-3
Ground Water (Well) Pumping Records

MONTH	2019 Ground Water Pumping			2020 Ground Water Pumping			2021 Ground Water Pumping			2022 Ground Water Pumping		
	Total (MGal)	Total (Ac-foot)	Discharge into Reservoir (Ac-ft)	Total (MGal)	Total (Ac-foot)	Discharge into Reservoir (Ac-ft)	Total (MGal)	Total (Ac-foot)	Discharge into Reservoir (Ac-ft)	Total (MGal)	Total (Ac-foot)	Discharge into Reservoir (Ac-ft)
January	8.84	27.13	13.56	12.41	38.08	19.04	6.48	19.89	9.95	None	-----	
February	11.22	34.43	17.21	4.23	12.98	6.49	8.08	24.80	12.40	None		
March	16.31	50.05	25.02	11.38	34.92	17.46	6.45	19.79	9.90	None		
April	15.59	47.84	23.92	10.62	32.59	16.30	5.01	15.38	7.69	None		
May	20.43	62.70	31.35	11.06	33.94	16.97	4.28	13.13	6.57	None		
June	14.75	45.27	22.63	5.06	15.53	7.77	6.30	19.33	9.67	14.52	44.66	22.33
July	15.03	46.13	23.06	10.31	31.64	15.82	5.68	17.43	8.72	17.35	53.23	26.61
August	10.57	32.44	16.22	9.08	27.87	13.94	3.93	12.06	6.03	None		
September	11.15	34.22	17.11	12.08	37.07	18.54	3.58	10.99	5.50	None		
October	8.39	25.75	12.87	7.80	23.94	11.97	7.04	21.60	10.80	None		
November	11.49	35.26	17.63	8.01	24.65	12.32	5.28	16.2	8.10	None		
December	10.93	33.53	16.76	8.07	24.78	12.89	1.48	4.54	2.27	None		
TOTAL	154.6	474.74	237.37	110.15	338.03	169.02	63.58	195.14	97.57		97.89	48.95

Note: Due to non-metering of ground well diverted for park area for sprinkler system use, assumption is that 50% of all well ground water pumped is discharged into raw water reservoir.

**TABLE 2-4
Historical Total Raw Water and Ground Well Water Used**

MONTH	2019 Total Raw Water Used			2020 Total Raw Water Used		
	Delivered by HCID#2 (MGal)	Well Water Discharged into Reservoir (MGal)	Total Raw Water (MGal)	Delivered by HCID#2 (MGal)	Well Water Discharged into Reservoir (MGal)	Total Raw Water (MGal)
January	48,540,000	4,421,550	52,961,550	40,590,000	6,207,250	46,797,250
February	61,680,000	5,609,850	67,289,850	70,970,000	2,115,750	73,085,750
March	75,050,000	8,153,850	83,203,850	57,410,000	5,689,550	63,099,550
April	55,050,000	7,794,250	62,844,250	60,920,000	5,311,850	66,231,850
May	52,170,000	10,212,600	62,382,600	97,790,000	5,529,650	103,319,650
June	62,420,000	7,374,350	69,794,350	72,820,000	2,531,250	75,351,250
July	52,160,000	7,516,050	59,676,050	33,350,000	5,155,850	38,505,850
August	101,180,000	5,284,100	106,464,100	66,690,000	4,538,900	71,228,900
September	36,340,000	5,577,200	41,917,200	67,710,000	6,039,900	73,749,900
October	67,650,000	4,194,850	71,844,850	100,330,000	3,902,050	104,232,050
November	90,190,000	5,744,950	95,934,950	89,320,000	4,015,400	93,335,400
December	47,980,000	5,463,600	53,443,600	55,400,000	4,036,600	59,436,600
TOTAL	750,410,000	77,347,200	827,757,200	813,300,000	55,074,000	868,374,000

TABLE 2-4 (Continued)
Historical Total Raw Water and Ground Well Water Used

MONTH	2021 Total Raw Water Used			2022 Total Raw Water Used		
	Delivered by HCID#2 (MGal)	Well Water Discharged into Reservoir (MGal)	Total Raw Water (MGal)	Delivered by HCID#2 (MGal)	Well Water Discharged into Reservoir (MGal)	Total Raw Water (MGal)
January	62,290,000	3,241,550	65,531,550	105,030,000	0	105,030,000
February	46,570,000	4,039,500	50,609,500	105,030,000	0	105,030,000
March	44,211,000	3,223,350	47,434,350	105,030,000	0	105,030,000
April	46,390,000	2,504,150	48,894,150	105,030,000	0	105,030,000
May	43,020,000	2,139,600	45,159,600	105,030,000	0	105,030,000
June	46,490,000	3,150,800	49,640,800	105,030,000	14,522,100	119,552,100
July	78,760,000	2,839,100	81,599,100	105,030,000	17,345,200	122,375,200
August	43,180,000	1,966,550	45,146,550	105,030,000	0	105,030,000
September	95,480,000	1,788,200	97,268,200	105,030,000	0	105,030,000
October	77,720,000	3,518,950	81,238,950	105,030,000	0	105,030,000
November	58,170,000	2,639,650	60,809,650	105,030,000	0	105,030,000
December	62,324,000	742,350	63,066,350	105,030,000	0	105,030,000
TOTAL	704,605,000	31,793,750	736,398,750	1,260,360,000 *	31,867,300	1,292,227,300*

Note: * Amounts not accurate and based on recurring Monthly Billing from HCID#2 due to non functioning meter at water treatment plant

2.3.6 Total Raw Water Used

Total irrigation district amount of raw water, including raw surface and raw well ground water delivered to the City’s water treatment plant reservoir is shown in **Table 2-4**.

The amounts of the irrigation district’s surface water and ground water well water amounts used in the report were taken from meter readings provided by the City. Prorated amounts of the ground well water amounts were used.

2.3.7 Historical Treated Water Pumping and Demands

The City’s historical monthly treated water pumping patterns in years 2019, 2020, 2021, and 2022 water pumping records is summarized in **Table 2-5**.

The maximum recorded daily flow over these three years was 4.75 mgd recorded in November 2021. This is equivalent to approximately 95% of the plant’s rated design treatment capacity. The maximum average monthly daily flow was 2.52 mgd recorded in September 2021.

**TABLE 2-5
Historical Treated Water Pumping Records**

2019 Treated Water Pumping Data					
Month	Monthly Total (MG)	Monthly Total (Acre-ft)	Daily Max (MG)	Daily Average (MG)	Daily Min (MG)
January	62.734	192.524	3.970	2.024	1.634
February	52.940	162.467	2.380	1.891	0.869
March	58.783	180.398	2.399	1.896	1.429
April	59.452	182.451	2.416	1.982	1.540
May	64.655	198.419	2.924	2.086	1.487
June	64.984	199.429	2.976	2.166	1.433
July	67.548	207.297	2.969	2.179	1.802
August	75.615	232.054	3.145	2.439	2.121
September	59.444	182.427	2.404	1.981	1.700
October	67.727	207.847	2.797	2.185	1.698
November	62.145	190.716	3.916	2.072	1.525
December	61.337	188.236	2.668	1.979	1.080
2019 Summary	757.364	2,324.265	--	--	--

TABLE 2-5
Historical Treated Water Pumping Records
continued

2020					
Treated Water Pumping Data					
Month	Monthly Total (MG)	Monthly Total (Acre-ft)	Daily Max (MG)	Daily Average (MG)	Daily Min (MG)
January	64.012	196.446	2.695	2.065	1.094
February	57.721	177.139	2.606	1.990	1.401
March	64.190	196.992	2.629	2.071	1.391
April	64.966	199.373	2.950	2.166	1.052
May	78.119	239.738	3.971	2.520	1.828
June	59.499	182.596	2.474	1.983	1.630
July	68.498	210.213	3.762	2.210	1.316
August	71.294	218.793	4.303	2.300	1.702
September	63.628	195.267	2.657	2.121	1.394
October	73.806	226.502	2.659	2.381	1.940
November	74.368	228.227	2.777	2.479	1.771
December	70.544	216.492	2.465	2.276	2.050
2020 Summary	810.645	2,487.778	--	--	--

2021					
Treated Water Pumping Data					
Month	Monthly Total (MG)	Monthly Total (Acre-ft)	Daily Max (MG)	Daily Average (MG)	Daily Min (MG)
January	67.612	207.494	2.557	2.181	1.875
February	56.705	174.021	4.259	2.100	1.401
March	71.807	220.368	2.676	2.316	2.001
April	68.277	209.534	2.662	2.276	1.901
May	62.929	193.122	2.458	2.030	1.703
June	62.422	191.566	2.328	2.081	1.424
July	60.748	186.429	2.264	1.960	1.654
August	76.757	235.559	4.052	2.476	1.953
September	75.567	231.907	3.064	2.519	2.024
October	73.032	224.127	4.262	2.356	2.031
November	70.802	217.283	2.689	2.360	1.952
December	73.707	226.198	4.745	2.378	1.905
2021 Summary	820.365	2,517.608	--	--	--

TABLE 2-5
Historical Treated Water Pumping Records
continued

2022					
Treated Water Pumping Data					
Month	Monthly Total (MG)	Monthly Total (Acre-ft)	Daily Max (MG)	Daily Average (MG)	Daily Min (MG)
January	72.615	222.847	4.902	2.342	1.927
February	61.620	189.105	2.787	2.201	1.730
March	72.248	221.721	2.711	2.331	1.927
April	74.917	229.912	2.896	2.497	1.919
May	77.089	236.577	3.030	2.487	1.430
June	79.966	245.407	2.944	2.666	2.190
July	92.976	285.333	3.321	2.999	2.654
August	80.651	247.509	3.196	2.602	2.049
September	69.182	212.311	2.948	2.306	1.957
October	73.749	226.327	2.754	2.379	1.781
November	70.927	217.667	2.785	2.364	2.029
December	67.621	207.521	2.624	2.181	1.761
2022 Summary	893.561	2,742.237	--	--	--

2.4 WATER TREATMENT FACILITIES

The City of Alamo owns and operates one water treatment plant located at the intersection of Ninth Street and Fannin Avenue.

Figure 2-1 shows the overall water treatment plant site plan.



2.4.1 Water Treatment Plant Condition

The City of Alamo Water Treatment Plant facility was constructed and put into operation in the year 2000. The water treatment plant has been recently cited by the TCEQ for failing plant conditions. The plant is currently in violation with TCEQ rules and requirements, and TCEQ is requiring violations to be rectified as soon as possible.

Only minor work has been done on the plant since originally constructed. Over the past 23 years, the water treatment plant has suffered extensive deterioration, mostly in the carbon steel clarifiers (CBI Claricones) and filter structures. Metal components in these structures have now deteriorated to a point where they are in need of structural repairs. Additionally, these metal structures also require new interior and exterior paint coatings due to severe wear, peeling, and discoloration.

Additionally, the plant SCADA and electrical controls are outdated as they are over 20 years old and are basically nonfunctional. Many of the plant control systems are not fully functional, inducing plant operators and personnel to manually operate the plant.

Many of the water plant's above ground mechanical and pneumatic control valves are worn and require replacement. The existing raw water pumps, high service pumps, and transfer pumps are weathered and in need of replacement or rehabilitation.

Also, existing earthen sludge and backwash basins are overgrown with grass and are needing excavation and enlargement.

2.4.2 Plant Treatment Capacity

The current existing water treatment plant has a design treatment capacity of 5.0 million gallons per day (mgd).

The City of Alamo water system has been growing, and the number of water connections has grown substantially mostly over the past few years. Based on data and information received from the City, Alamo currently has an estimated 6,052 water connections.

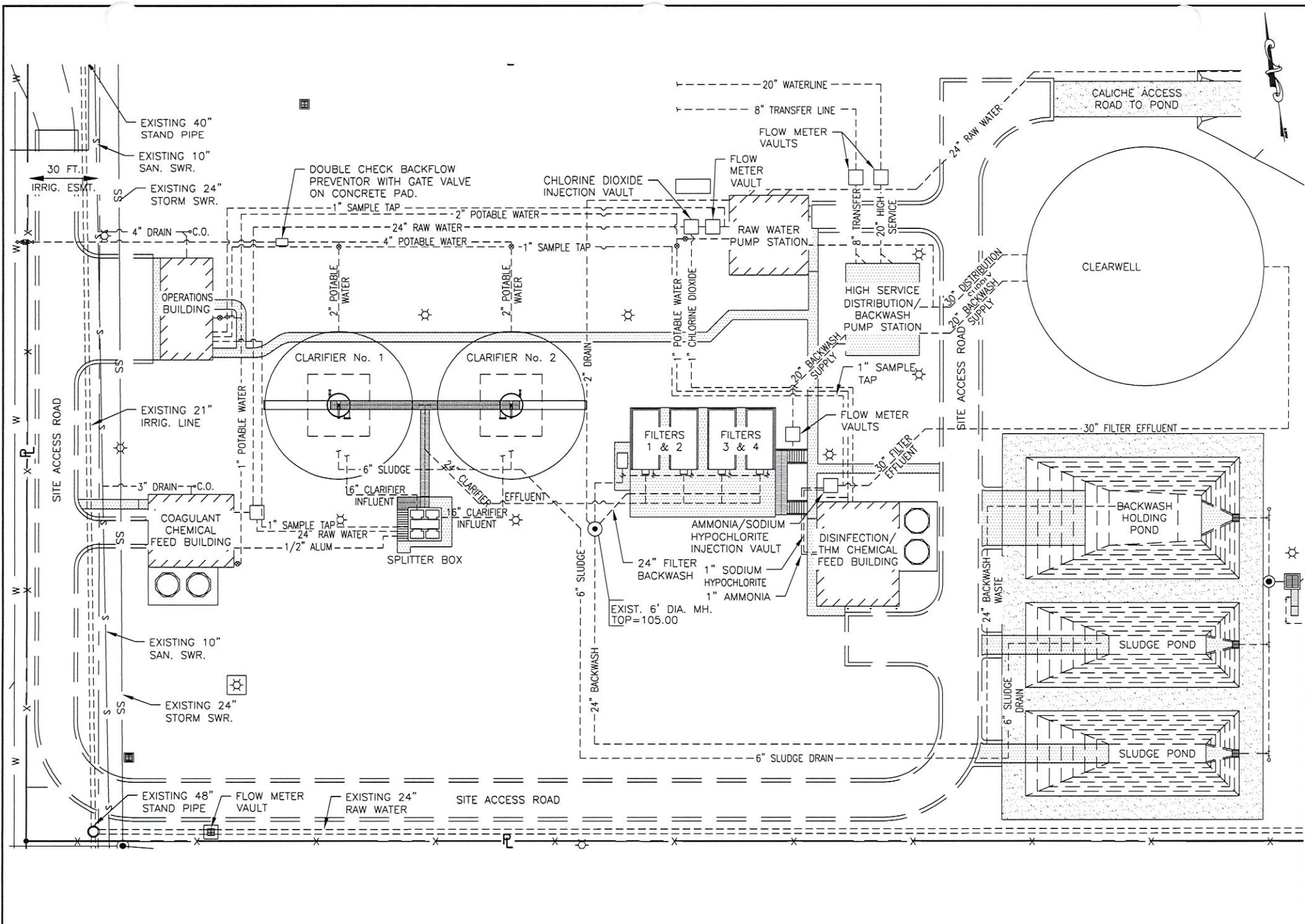
The TCEQ establishes minimum standards for public water systems in Title 30, Texas Administrative Code (30TAC), Chapter 290, Design Criteria for Public Water Systems.

The minimum standard regarding water treatment plant capacity includes:

- Water treatment capacity of 0.60 gallons per minute (gpm) per connection

Note: The City requested and received an Alternate Capacity Requirement (ACR) of 0.49 gallons per minute per connection from TCEQ. This capacity requirement will be used in this report for planning purposes.

Based on the TCEQ's new treatment plant capacity requirement and the City's current number of existing water connections, the City's existing water treatment plant requires a design capacity of 4.27 mgd, which is approximately 85% of the plant's rated capacity.



WATER AND WASTEWATER MASTER PLAN
WATER AND WASTEWATER MASTER PLAN
WATER TREATMENT PLANT PROCESS FLOW DIAGRAM

2.4.3 Plant Treatment Flow Diagram

Figure 2-2, shows the existing water treatment plant's process flow diagram.

Table 2-6 provides a summary of the plant's design and performance criteria for the major components, which are the basis for the plant design capacity.

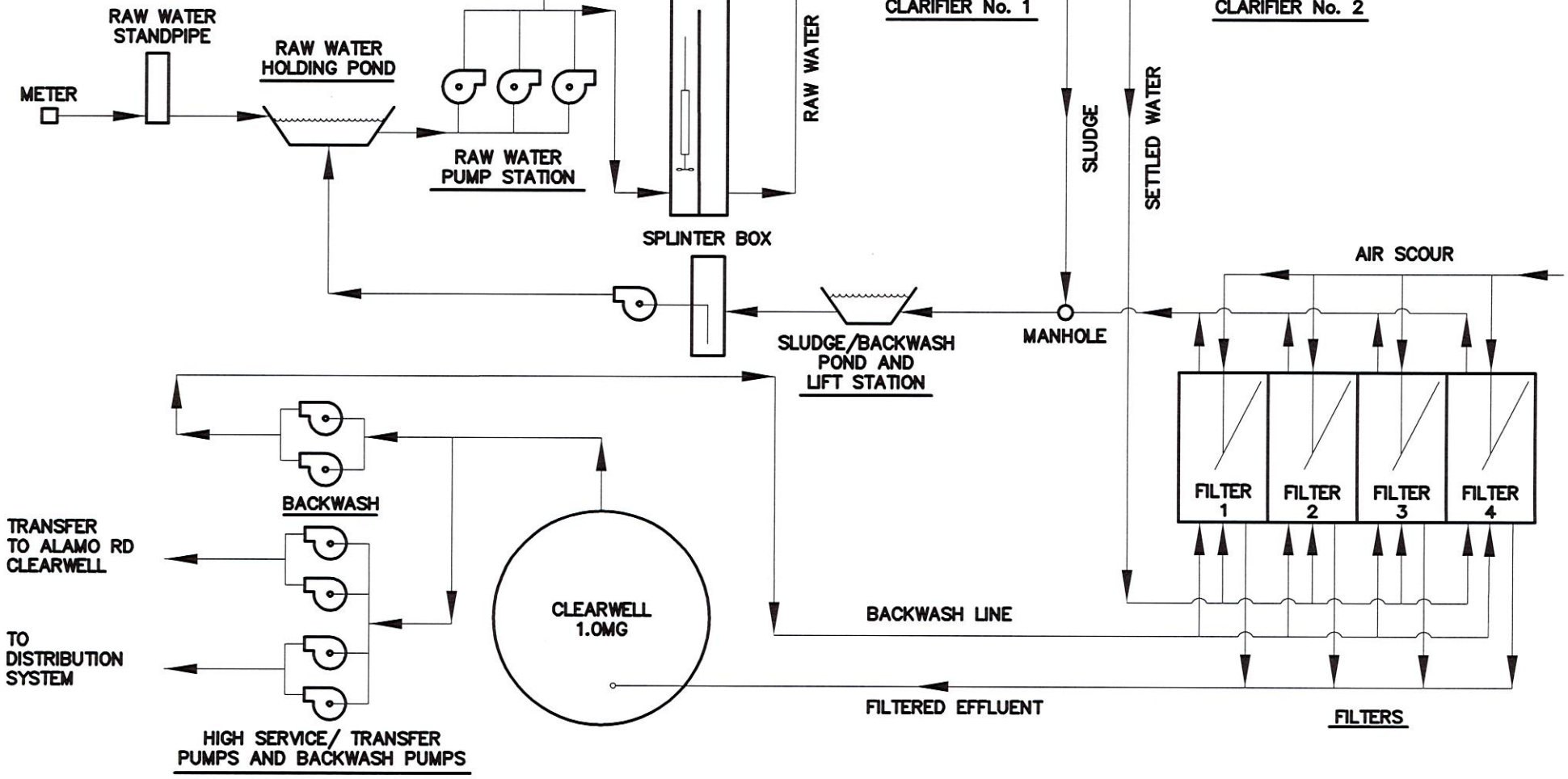
TABLE 2-6
Water System Design Criteria

<u>Design Parameters</u>	<u>Capacity in 2022</u>	<u>Units</u>	<u>TCEQ Design Criteria</u>	
Plant Capacity				
Plant Rated Capacity – Max Daily Flow	5.0 mgd		Total Plant Capacity: 0.49 gpm/connection x 6,052 connections = 4.27 mgd	
Number of Service Connections	6,052	--		
Current Plant Max Flow	4.27	mgd		
Raw Water Pumping Capacity				
Number of Pumps	3	---	0.6 gpm/connection with largest pump out of service = 3,497gpm	
Capacity (each pump)	3,500, 2,100, 2,100	gpm		
Capacity Required	3,497	gpm		
Firm Capacity Provided	4,200	gpm		
Sedimentation Capacity				
Number of Clarifiers	2	---	120 minutes, minimum	
Type	Up Flow Solids Contact	2 ea		
Design Peak Flow each clarifier	1,736	gpm		
Total Design Peak Flow	3,472	gpm		
Total Design Peak Flow	5.0	mgd		
Total Volume in Clarifier	432,462	gal		
Detention Time	125	min		
Total Surface Area Provided	2,820	sf		
Surface Area Required	1,736	sf		1.0 gpm/sf

TABLE 2-6
Water System Design Criteria
Continued

Filtration Capacity			
Number of Filters	4	each	
Type	Gravity, High-Rate	---	
Surface Area each filter	250	sf	5 gpm/sf / 3,472 gpm
Total Surface Area Provided	1,000	sf	
Total Surface Area Required	694	sf	
Design Peak Flow	5.0	mgd	
Clearwell Storage Capacity			
Plant Clearwell Volume	1.0	MG	Based on 5% of Daily Flow= 250,000 gallons
Existing Clearwell Volume Required	0.25	MG	
Backwash Pump Capacity			
Number of Pumps	2		each pump at 4,500 gpm
Backwash Rate	vertical turbine	--	Min backwash rate= 12.5 gpm/sf 21.8 gpm/sf
Backwash Rate average	17.15	gpm/sf	
Each Pump Provided	4,500	gpm	One pump out of service
Backwash Required per filter	4,375	gpm	
High Service Pump Capacity			
Number of Pumps	5		
Plant Pump Station Capacity Provided (Total)	3,500 gpm (1,750, 1,750) (Two Duty Pumps)	gpm	*Meet peak hr demand with largest pump out of service . Pk Hr demand = 2.7 Peak Day 0.60 gpm/conn x 1.74= 1.04 gpm/connection Pk hr demand 1.62 gpm x Connections =
Tower Road Pump Station Capacity Provided	2 pumps at 750 gpm each (One Duty Pump)	gpm	
Total Combined High Service	4,250	gpm	
Total Combined High Service Required	6,085	gpm	
Transfer Pumps			
Number of Pumps	2 1 duty and 1 spare each rated at 750 gpm		
Pump Capacity	750	gpm	
Total Pump Capacity	1.0	mgd	

FROM IRRIGATION DISTRICT

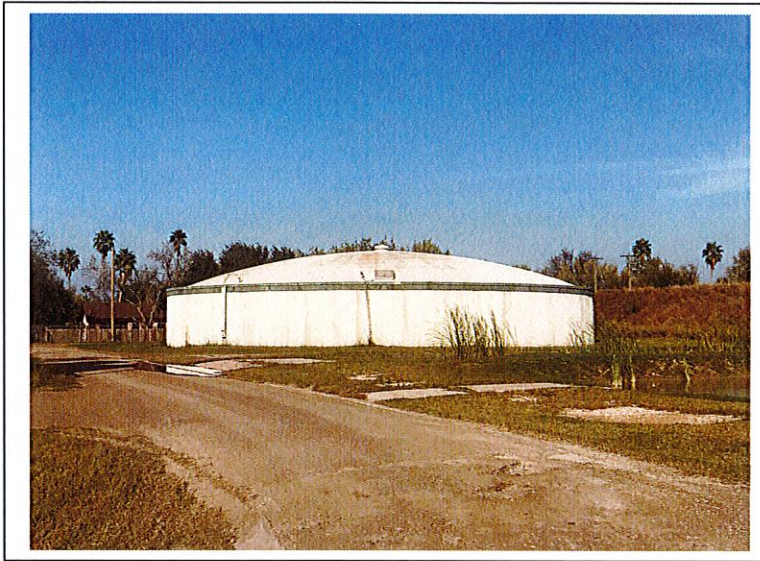


2.4.4 Clearwell and Ground Storage Tank Capacity

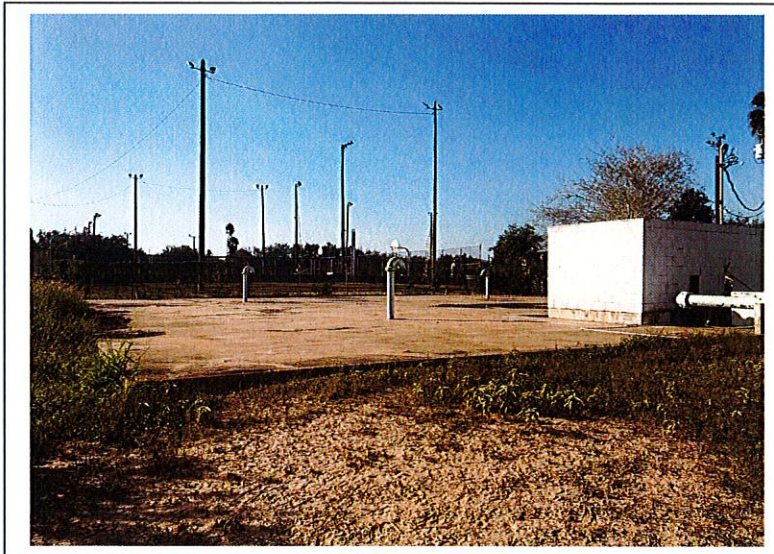
The City of Alamo's water system currently has two clearwells: one located at the existing water treatment plant, and the other located on Tower Road, adjacent to the existing 150,000 elevated storage tank.

The ground storage concrete circular tank, located at the water treatment plant site, has a volume capacity of 1.0 million gallons. The buried concrete clearwell located on Tower Road has a volume capacity of 350,000 gallons.

The combined total clearwell storage capacity is 1.35 million gallons.



1.0 Million Gallon Ground Storage Tank



350,000-Gallon Tower Road Clearwell Ground Storage

2.4.5 High Service Pump Capacity

The existing water system has two high service pump stations with a total of five high service pumps. Pumps No. 1 and No. 2 are located outside of and adjacent to the water plant's ground storage tank.

Pumps No. 3 and No. 4 are located on Tower Road adjacent to the existing 350,000-gallon ground storage clearwell.



High Service Pump Station- Water Treatment Plant



High Service Pump Station on Tower Road

High Service Pumps No. 1 and No. 2 were installed during the construction of the City's water treatment plant in the year 2000. These two high service pumps are currently in fair working condition.

High Service Pumps No. 3 and No. 4 have been on the water system for many years and are quite old.

High Service Pump No. 3 and No. 4 are mainly used to boost the water pressure system in the Tower Road area and aid in filling the adjacent Tower Road elevated tank.

High service pump performance criteria is summarized in **Table 2-7** below.

TABLE 2-7
Existing High Service Pumps

Performance Criteria	Pump No. 1	Pump No. 2	Pump No. 3	Pump No. 4
Type	Vertical Turbine	Vertical Turbine	Vertical Turbine	Vertical Turbine
Capacity at Design TDH (gpm)	1,750	1,750	700	700
Design Total Dynamic Head (feet)	210	210	150	150
Motor Horsepower	150	150	40	40

2.4.6 Water Treatment Plant Processing Sludge Residuals

The solids settled in the Clarifier and filter backwash water are conveyed and stored in one large backwash and two smaller sludge earthen-lined basins.

Settled solids are periodically removed from the basins and hauled away by City crews or by privately operated sludge hauling companies. Decanted water from the sludge and backwash basins is collected in a small pump station and pumped back into the water treatment plant's existing raw water reservoir.

2.4.7 Projects Planned or Currently Underway

2.4.7.1 Water Treatment Plant Rehabilitation and Expansion

Cruz-Hogan Consultants, Inc. has finalized preliminary engineering for both the future rehabilitation and expansion of the existing water treatment plant. Project information has been submitted to the Texas Water Development Board for inclusion in the Board's Intended Use Plan and for future project construction funding to address the needs for the plant's treatment capacity expansion and rehabilitation.

The project includes rehabilitating existing water plant components and expansion capacity from 5.0 MGD to 7.50 MGD, including new electrical and control systems.

The project's current budget, which includes costs for construction, engineering, environmental clearance, legal fees, cost of issuance, project contingencies, etc., has been estimated to cost approximately \$9,355,000.00. This cost is based on the Intended Use Plan (IUP) submitted to the TWDB in March 2022.

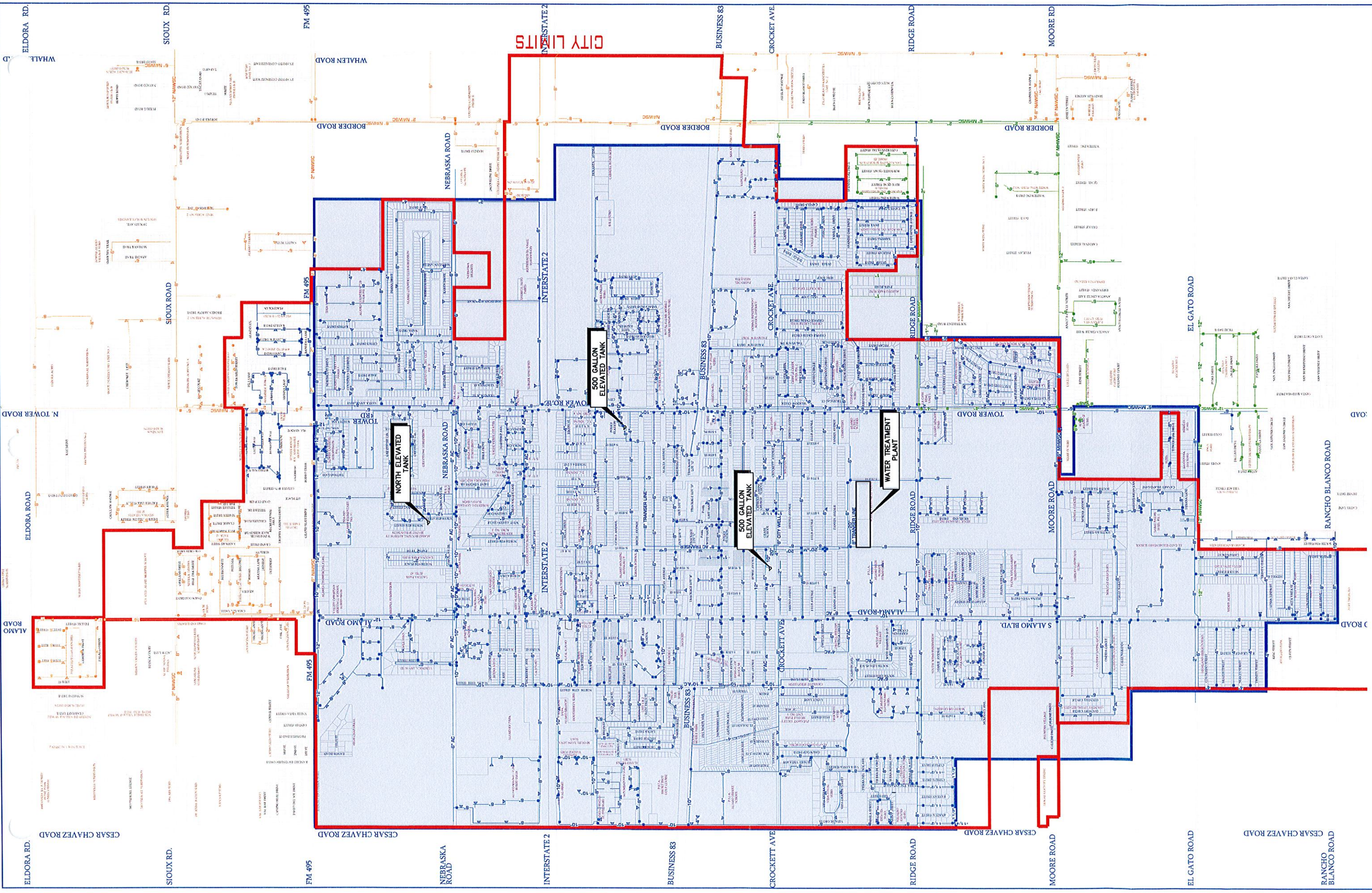
2.5 WATER DISTRIBUTION SYSTEM

2.5.1 Water Distribution Mains

Map 2-2 shows the approximate layout of the City's water distribution system, including water lines from 1 inch through 12 inches in diameter, elevated water storage tanks, and the water treatment plant.

The water system infrastructure shown in the map is current as of June 2020, and is based on information provided by City staff. Because the City of Alamo does not have a system of documenting and recording the location of water lines, the precise location and sizes of some water lines illustrated may be inaccurate. However, sufficient information was provided to model and understand the deficiencies in the water distribution system.

The City's water distribution system extends from the centrally located water treatment plant outward to the limits of the City's water service area and is operated as a single pressure plane. Some of the waterlines were reported to be asbestos cement (AC) lines, but a majority of the lines are Polyvinyl chloride (PVC) type. All new construction projects in the City are required to use PVC pipe. Based on City personnel, all ductile iron pipe in the water distribution system has now been replaced.



LEGEND
 CITY OF ALAMO
 CITY LIMITS
 CITY OF ALAMO
 WATER SERVICE AREA

CITY OF ALAMO
WATER AND WASTEWATER MASTER PLAN
2022 EXISTING WATER SYSTEM MAP



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MAP No.

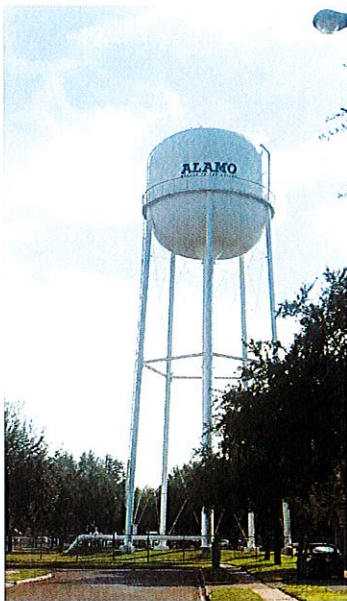
2-2

2.5.2 Elevated Storage Tanks

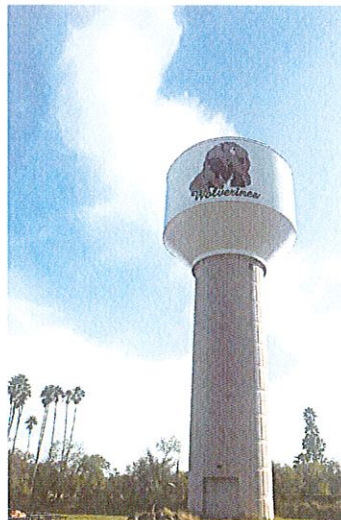
The City of Alamo's water distribution system includes three elevated storage tanks with a combined storage capacity of 950,000 gallons. The Tower Road Storage Tank is located on Tower Road, just south of IH-2/Expressway 83. The North Tank is located on North 8th Street, just north of Nebraska Avenue. The South Tank is located just west of South 9th Street, between Bowie Avenue and Crockett Avenue.

All three elevated storage tanks have altitude valves, which should automatically shut off the flow of water into elevated tanks when they fill to the overflow tank level.

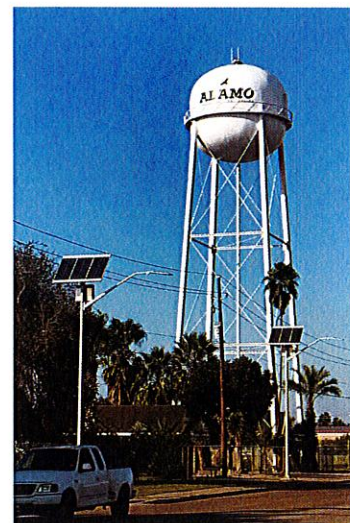
The locations of the tanks are also shown on **Map No. 2-2**.



**300,000 Gallons
North Tank**



**500,000 Gallons
South Tank**



**150,000 Gallons
Tower Road Tank**

The condition of the three tanks currently appears to be in good shape. However, all tanks require new paint coatings, interior and exterior, as maintenance to protect the integrity of the tank's structural components. As a rule of thumb, all tanks should have their exterior repainted every 10 years, and tank interior coatings should be replaced every 15 years.

Design criteria and hydraulic conditions for the elevated water storage tanks are presented in **Table 2-8**, below:

TABLE 2-8
Existing Elevated Storage Tank Information

Design Criteria	Tower Road Tank	North Tank N. 8th Street	South Tank on S. 9th Street
Capacity (gallons)	150,000	300,000	500,000
Type Design	Multi-column	Multi-column	Composite
Head Range (ft)	24'-9"	30 '-0"	37'-10"
Overflow Elevation	223.84 feet	215.43 feet	220.37
Tank Bottom Elevation	199.09 feet	185'-0"	182.52
Base Elevation	97.09	100.93	101.67
Year Last Coated	Unknown	Unknown	2008
Year Last Inspected	Unknown	Unknown	Unknown
Cathodic Protection	None	None	None
Year Constructed	1968	1994	2008
Manufacturer	Pittsburg-Des Moines Steel Co.	Pittsburg Tank & Tower	Landmark Structures

2.5.3 Estimated Number of Water Service Connections

TCEQ regulations base water system capacity requirements on the number of active connections. Each single-family dwelling unit and each individual commercial, industrial, and institutional establishment is defined by TAC 290.38 as a connection. For example, the number of service connections in an apartment complex or in a mobile home park, being metered by a master meter, would be equal to the number of individual apartment units or the number of mobile homes.

The TCEQ interprets a water connection as “a connection that is completed or existing and able to supply drinking water from a Public Water System to a single-family residential unit or each commercial or industrial establishment, regardless of whether the single-family residential unit, commercial, or industrial establishment is occupied or unoccupied.”

As shown on existing land use mapping, the City of Alamo can be characterized as predominantly single-family residential, with a small percentage of multi-family housing units. Therefore, this report uses City billing records and the estimated count of water connections on master meters to directly estimate the number of service connections. The number of connections are based on information received from the City. Information received indicates that in December 2022, there were a total of 5,402 residential water accounts, 454 commercial water accounts and approximately 196 mobile home connections on a master meter, totaling 6,052 water service connections. No Recreation Vehicle (RV) park connections are included in this count.

Table 2-9 below summarizes the actual number of service connections for 2019 through 2022. In December 2022, the combined residential and commercial number of water service connections are estimated to be approximately 6,052.

TABLE 2-9
Existing Water Service Connections

Month	2019	2020	2021	2022
January	5,566	5,730	5,911	5,983
February	5,593	5,763	5,926	6,017
March	5,611	5,771	5,944	6,025
April	5,603	5,777	5,961	6,021
May	5,515	5,688	5,812	5,959
June	5,410	5,625	5,745	5,876
July	5,408	5,629	5,723	5,851
August	5,447	5,629	5,742	5,563
September	5,461	5,659	5,771	5,886
October	5,529	5,719	5,812	5,942
November	5,616	5,789	5,866	6,029
December	5,666	5,880	5,957	6,052

Note: Number of Connections adjusted to include residential master meters

2.5.4 Distribution System Water Losses

City records for year 2021 show the following:

- 695.10 million gallons of raw water were metered at the City's Water Treatment Plant Raw Water Reservoir meter.
- Approximately 34.29 million gallons of ground water (well) were pumped into the water treatment plant raw water reservoir.
- 832.38 million gallons of finished treated water were metered at the City's water treatment plant.
- 8.20 million gallons of water were measured and distributed to the City's residential and commercial accounts and at master meters located at apartment complexes and mobile home parks.

The volume amount of water measured at the City's commercial, residential, and master meter connections was approximately 12 million gallons *lower* than the volume of water measured for both the total amount of irrigation raw water and ground (well) water. This equates to an approximate 12.5 percent loss.

The volume amount of water measured at the City's residential, commercial, and master meter connections was approximately 91 million gallons *lower* than the volume of water leaving the water treatment plant. This equates to an approximate 1.4 percent loss.

However, the accuracy of water meters used to acquire this data may range from plus to minus 5 percent to 10 percent. Total water losses through the water system and water losses in the distribution system appear to be within normal ranges, and do not appear to be a significant problem for the City.

2.5.5. Water Projects Planned or Currently Underway

2.5.5.1. Morningside South Water System Improvements Project

The City is currently in the planning and design phase for a water distribution improvements project in the Morningside South Subdivision. The project will replace existing undersized waterlines with new 8-inch waterlines, along with the installation of fire hydrants. New fire hydrants will provide fire protection to the entire neighborhood. The project's cost is estimated to be approximately \$400,000.00, and it will be funded with Hidalgo County Urban County Program funds.

2.6 COMPLIANCE WITH TCEQ REGULATORY REQUIREMENTS

The TCEQ establishes minimum standards for public water systems in 30 TAC chapter 290. The minimum standards include:

- The total ground storage and elevated storage capacity shall be greater than or equal to 200 gallons per service connection.
- A minimum elevated storage capacity of 100 gallons per connection.
- If elevated storage capacity is less than 200 gallons per connection, two or more high service pumps are required that have a total capacity of 2.0 gpm per service connection at each pump station or pressure plane. Alternately, the high service pumps must have a total capacity of at least 1,000 gpm and the ability to meet peak hourly demands with the largest pump out of service.
- If elevated storage capacity provides more than 200 gallons per service connection, two high service pumps with a minimum combined capacity of 0.6 gpm per connection are required at each pump station or pressure plane.
- A minimum pressure of 35 psi is required at all points within the distribution network at flow rates of at least 1.5 gpm per connection.
- A minimum pressure of 20 psi is required at all points within the distribution network under combined fire and peak day water flow conditions.

Table 2-10 summarizes the current TCEQ requirements and design criteria based on the number of water service connections in the 2022 water system with the addition of current water storage and pumping capacities:

- The City currently has sufficient total water storage capacity to meet the TCEQ requirement of 200 gallons per connection.
- The City currently has sufficient elevated water storage capacity to meet the TCEQ requirement of 100 gallons per connection.
- The City does not meet the elevated storage criteria of 200 gallons per connection to allow the 0.60 gpm per connection via TCEQ's high service pumping alternative.

- The City does not meet the total pumping capacity of 2.0 gpm/connection requirement for service pumping, and it must then comply with a pumping alternative, listed below.
- The City does not meet the service pumping capacity requirement of 2.0 gpm per connection with having a total pumping capacity of at least 1,000 gpm and the ability to meet peak hourly demands.

Note: Since the total current elevated capacity of 176 gallons per connection falls short of the 200 gallons per connection, the service pumping requirement may be temporarily satisfied; however, this non-compliance gap will exponentially increase as new connections are added in the water system.

**TABLE 2-10
TCEQ Requirements 2022 Water System**

City of Alamo – Water Service Area		
Design Criteria	Units	2022 Requirements
Estimated Number of Water Service Connections	--	6,052
Peak Daily Water Demand	mgd	4.90
Treatment Capacity		
TCEQ Requirements:		
Required Treatment Capacity (ACR of 0.49 gpm/conn)	mgd	4.27
Required Treatment Capacity per Service Connection	gpm	0.49
City of Alamo:		
Current Treatment Capacity	mgd	5.0
Current TCEQ Treatment Capacity	gpm	85% of total capacity
Total Storage Capacity (ground plus elevated)		
TCEQ Requirements:		
Total Storage Capacity	gal.	1,179,400
Total Storage Capacity per Service Connection	gal.	200
City of Alamo:		
Total Storage Capacity Available	gal.	2,300,000
Total Storage Capacity per Service Connection	gal.	390
Ground Storage Capacity		
TCEQ Requirements:		
Based on 50 gallons per Service Connection	gal.	294,850
Based on 5% of Daily Plant Capacity	gal.	250,000
City of Alamo		
Storage Capacity Available	gal.	1,350,000

City of Alamo – Water Service Area Design Criteria	Units	2022 Requirements
Elevated Storage Capacity		
TCEQ Requirements: Storage Capacity Storage Capacity per Service Connection	gal. gal.	589,700 100
City of Alamo: Storage Capacity Available Storage Capacity per Service Connection	gal. gal.	950,000 176
Service Pumping Capacity		
TCEQ Requirements: (1) See below (2) See below		
<p>City of Alamo:</p> <p>(1) City of Alamo currently does not have > 200 gallons per connection of elevated storage. (1) does not apply</p> <p>(2) Pump Capacity 2.0 gpm needed per service connection</p> <p style="padding-left: 40px;">Total Capacity of 2.0 gpm/conn= 11,794 gpm (does not meet)</p> <p>or</p> <p style="padding-left: 40px;">Peak Hr demand = 1.25 max day demand Peak Day 4.90 MGD = 3,400 gpm x 1.25= 3,400 gpm</p> <p>Based on at least 1,000 gpm @ Pk-hr Demand with largest pump out of service</p> <p style="padding-left: 40px;">Total High Service with largest pump out of service= 3,150 gpm</p>		<p>Lacking Service Pumping Required : 3,400 gpm Available : 3,150 gpm</p>

- (1) For systems that provide 200 gallons/connection, two service pumps required with a total minimum capacity of 0.60 gpm per connection.
- (2) A service pump capacity that provides each pump station or pressure plane with two or more pumps that have a total capacity of 2.0 gpm/conn; or have a total capacity of at least 1.000 gpm and the ability to meet peak hourly demand with largest pump out of service.

2.6.1 Existing Waterlines Experiencing Breaks and Undersized Waterlines Needing to be Replaced

In meeting with City waterworks staff, various existing waterlines were identified as needing to be replaced due to many water breaks and leaks. These identified lines are all constructed of asbestos cement (AC) and have been in the ground for many years. Additionally, there are currently several areas within the City that have undersized waterlines, generally in the 1-inch to 4-inch sizes. Undersized lines usually provide reduced pressures, but mostly restrict the installation of fire hydrants due the reduced water volumes and pressures.

See Map 2-3, which shows the location of existing waterlines currently experiencing breakage and needing replacement.

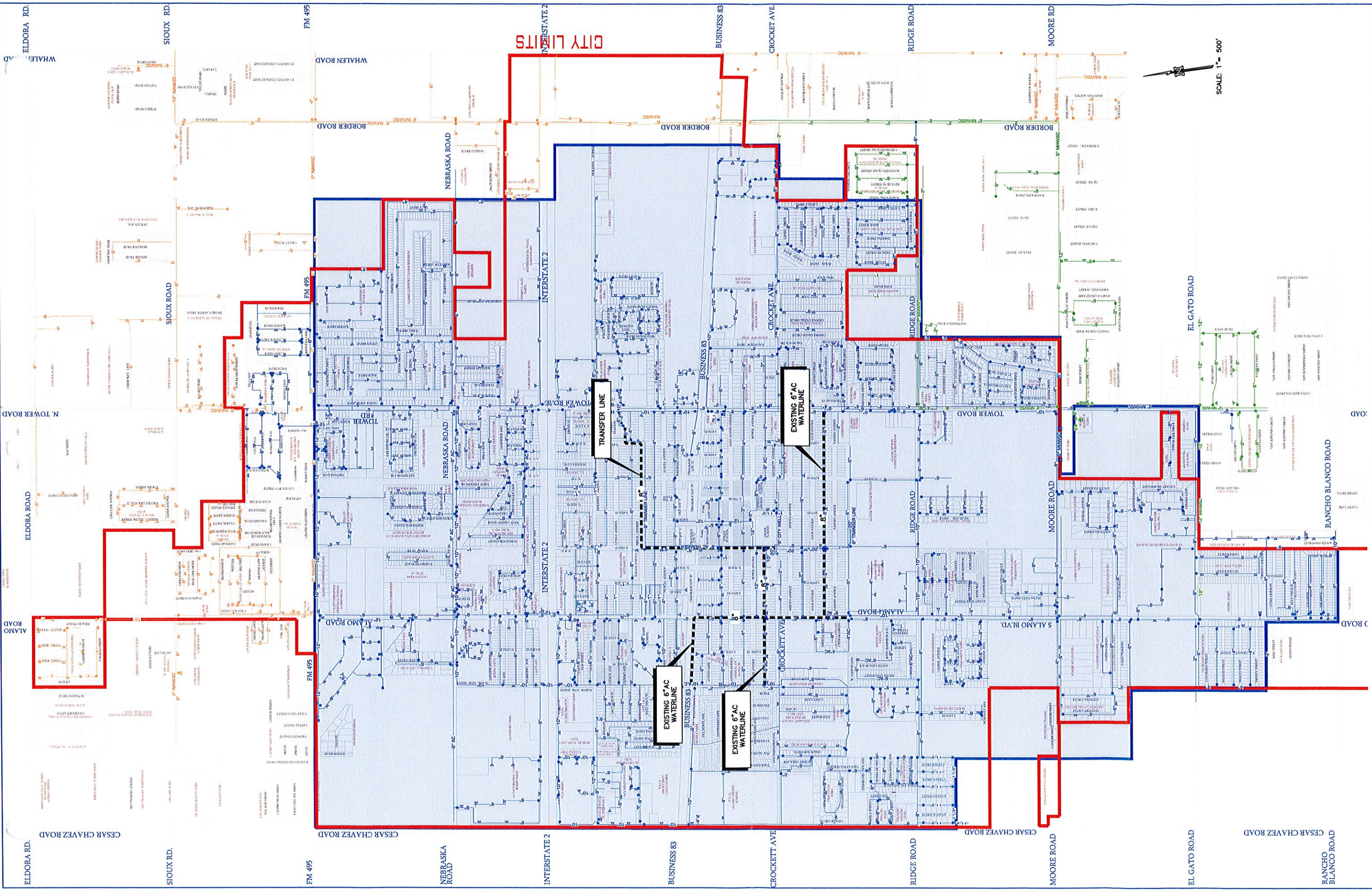
See Map 2-4, which shows the locations of existing undersized waterlines needing replacement.

As part of this report, existing waterlines needing replacement are included in the Capital Improvements Plan.

2.6.2 Areas of Low Water Pressure

Evaluation of the TCEQ's minimum pressures and fire flows require review of comprehensive water system monitoring data and use of a water system hydraulic model. The City does not have the capability to monitor and record system-wide water pressures. Some fire hydrant testing data is maintained by the City's Fire Department; however, this data is not adequate for an evaluation of citywide water pressures.

Cruz-Hogan reproduced the City's water distribution system by performing a computer model to evaluate compliance with TCEQ's minimum pressures and fire flow criteria and to address areas of low water pressure. As part of this report, improvements needed to provide adequate pressures throughout the City are included in the Capital Improvements Plan.



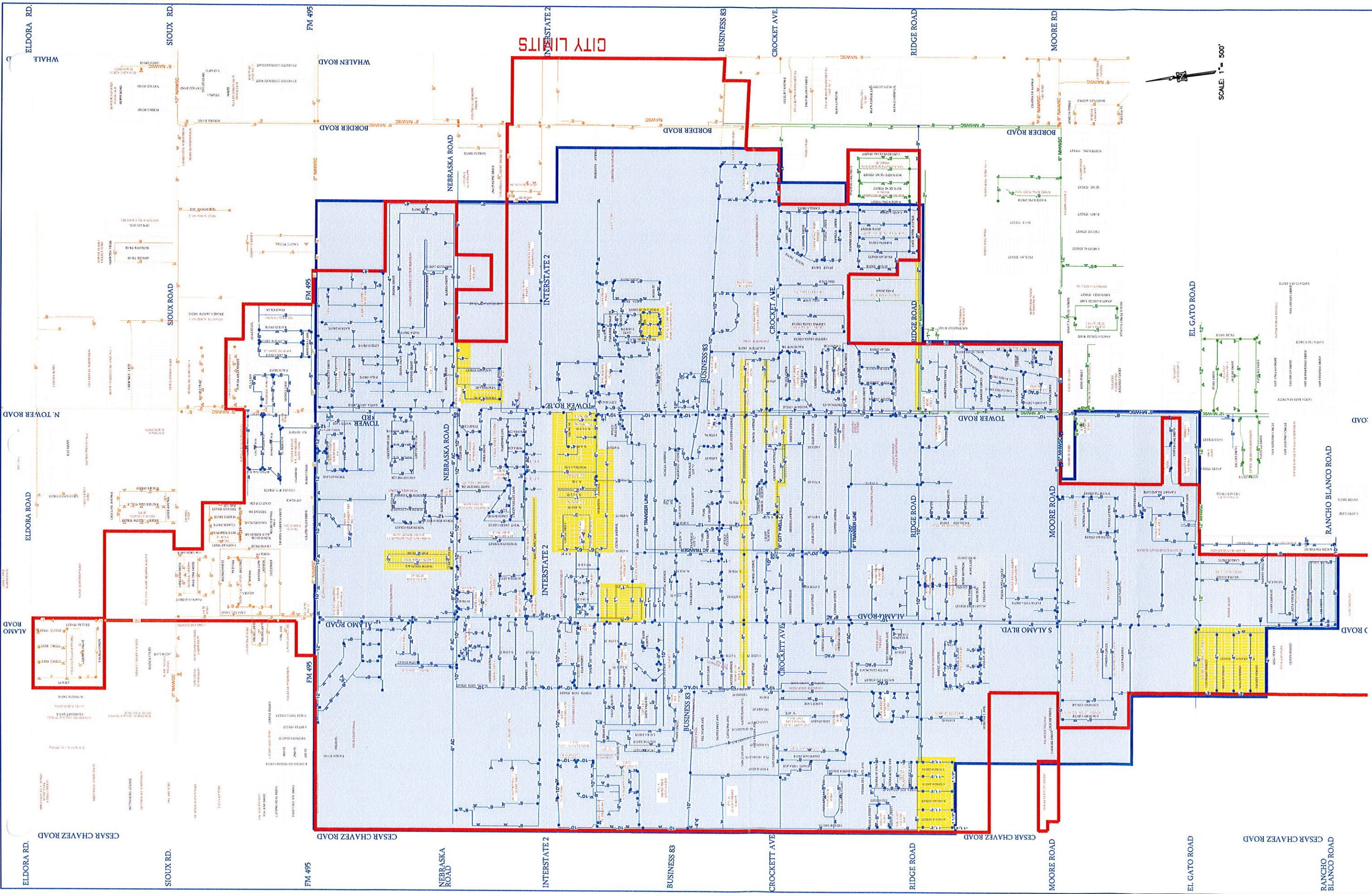
- LEGEND**
- CITY OF ALAMO
 - CITY LIMITS
 - CITY OF ALAMO
 - WATER SERVICE AREA

CITY OF ALAMO
WATER AND WASTEWATER MASTER PLAN
2022 EXISTING WATERLINES
CURRENTLY EXPERIENCING BREAKAGE



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MAP No.
2-3



LEGEND
 CITY OF ALAMO
 CITY LIMITS
 CITY OF ALAMO
 WATER SERVICE AREA

CITY OF ALAMO
WATER AND WASTEWATER MASTER PLAN
2022 EXISTING LOCATION OF UNDERSIZED WATERLINES



CRUZ - HOGAN
 ENGINEERS & PLANNERS
 McAllen Harlingen Weslaco

MAP No.
2-4

2.7 HYDRAULIC ANALYSIS OF THE 2022 WATER DISTRIBUTION SYSTEM

Hydraulic analysis of the City’s 2022 water system was performed to evaluate the system, and to identify developmental solutions for the following deficiencies:

1. Areas of low water pressure
2. Fire flows availability and water pressure
3. Elevated storage tank capacity and cycles

Table 2-11 summarizes the objectives of the steady-state (STD) and extended period simulation (EPS) models performed by Cruz-Hogan Consultants, Inc., to evaluate and analyze the City of Alamo’s 2022 water system. The table also contains modeling input parameters used for the 2022 model. The 2022 water model only shows water mains six inches and higher, elevated storage tanks, and high service pumps. The information used for the model was provided by the City of Alamo; therefore, accuracy of the model is highly dependent on the input and accuracy of such data.

TABLE 2-11
Hydraulic Models 2022 Requirements

MODEL	TITLE	OJECTIVE	PARAMETERS
STD	2022 Pressure model	Evaluate TCEQ requirements of 35 psi at 1.50 gpm peak demand/connection	6,052 connections @1.50 gpm/connection 6-inch and larger water mains 3 elevated water tanks 4-high service pumps
FF	2022 Available Fire Flow	Evaluate TCEQ requirement of 20 psi w/ fire flow & peak hour water flow conditions	Typical Peak Demand of 1.50 gpm/conn Fire flows = 1,500 gpm for 2 hours on the water system
EPS	2022 Elevated Storage Cycles	Evaluate the filling and draining cycles of the tanks with pumps and demands	Typical plant operating conditions Tank Nos. 1, 2, and 3 See results of tank filling pressures in Figures 2-3 through 2-6, in this report.

2.7.1 Modeling Results – Water Pressure

Water system pressures will vary based on water supply, pumping requirements, and customer demands. Areas in the city with higher topographic elevations will generally experience lower pressures; and areas with lower topographic elevations will generally experience higher water pressures. The hydraulic model used to evaluate and analyze the existing water system is based on TCEQ requirements to maintain minimum pressures of 35 psi at flow rates of 0.60 gpm per service connection.

The existing system does not meet the TCEQ requirements for pressures to be maintained at 35 psi or higher under peak demands. The system shows failure to maintain pressures throughout the entire system. The largest water main in the system is a 20-inch main line leaving the water treatment plant. The rest of the system consists of 6-inch, 8-inch, and 10-inch waterlines that decrease in system pressures as water moves away from the treatment plants.

2.7.2 Modeling Results – Fire Fighting Requirements

The hydraulic model used to evaluate and analyze the existing water system is based on TCEQ requirements to maintain minimum pressures of 20 psi under drinking water flow conditions and fire flows of 1,500 gpm for two hours.

The system pressures are adequate and well above 20 psi, but the available fire flows are inadequate towards the northern and eastern parts of the system. This can be attributed to undersized lines within those portions of the system.

It is important to note that only lines 6 inches and larger were modeled and that there are various areas within the system that are served by lines smaller than 6 inches in diameter that are inadequate for fire flows. The downtown-original area is a good example of areas served by 2-inch and 4-inch lines where lower pressures were commonly detected.

2.7.3 Modeling Results – Elevated Storage Tanks Cycles

The filling and draining cycles for the City's elevated storage tanks is based on the simulation of the existing water system under typical operating conditions.

Pressure recorders were installed on all three elevated water storage tanks over a ten-day period to determine the cycling of the water in each tank and to determine the hydraulic grades and pressures in the tanks during a normal operating timeframe. Pressure recorders were installed on November 4, 2022 and removed on November 14, 2022.

The results of the 10-day pressure recording are included in **Appendix D** of this report.

All three tanks were filling and draining through the day, with two diurnal curves being experienced throughout a 24-hour period. The mid-day peak levels were lower than the evening peak levels. It was noted that the system tank hydraulic levels in both the Tower Tank and the South Tank were very similar. However, the system hydraulic levels in the North Tank were much lower.

See attached **Figures 2-3, 2-4, and 2-5**, which show the operating levels of the three tanks during the 10-day tank recording.

All three elevated tanks have differing high water elevations (over flow level), with a highwater level approximately 8 feet lower than the Tower Tank, and approximately five feet lower than the South Tank.

Figure 2-3 shows water levels in the North Tank. Water levels during the recording timeframe varied in pressures throughout the day and water levels generally stayed above the tank 50% full level. The hydraulic high water spill elevation of this tank is approximately 5 feet lower than the other two tanks.

The highest tank pressure recorded (at ground level) was approximately 44 psi with an overall hydraulic grade of 205.08 feet, which represents that the tank was approximately 75% full.

The North Tank has high water elevation of 215.43 feet and a bowl height and operating head range of 30 feet. The water levels through the 10-day operating period generally functioned above the half full tank elevation of elevation 200.43 feet, with low peaks falling just below the half tank elevation.

Figure 2-4 shows water levels in the Tower Tank. Water levels during the recording timeframe varied in pressures throughout the day and water levels generally stayed above the tank 50% full level. The hydraulic high water spill elevation of this tank is approximately 5 feet lower than the other two tanks.

The Tower Tank has high water elevation of 223.84 feet and a bowl height and operating head range of 24'-9". The water levels through the 10-day operating period generally functioned just above and just below the half full tank elevation of 211.47 feet.

Figure 2-5 shows water levels in the South Tank. Water levels during the recording timeframe varied in pressures throughout the day, and water levels generally stayed above the tank 50% full level.

The South Tank has high water elevation of 220.37 feet and a bowl height and operating head range of 30'-10". The water levels through the 10-day operating period always functioned above the half full tank elevation of 201.87 feet.

Based on discussions with plant operators regarding the operations of the water pressure system and water level operations, they were operating high service pumps based on experience, and taking care of not overflowing tanks. They are having to do this due to lack of existing tank level controls, as part of the water treatment plant SCADA, and also due to existing tank altitude valves being frozen and not operational. Only the Tower Tank is providing level tank controls. All the altitude valves are currently operating only in the "open" position.

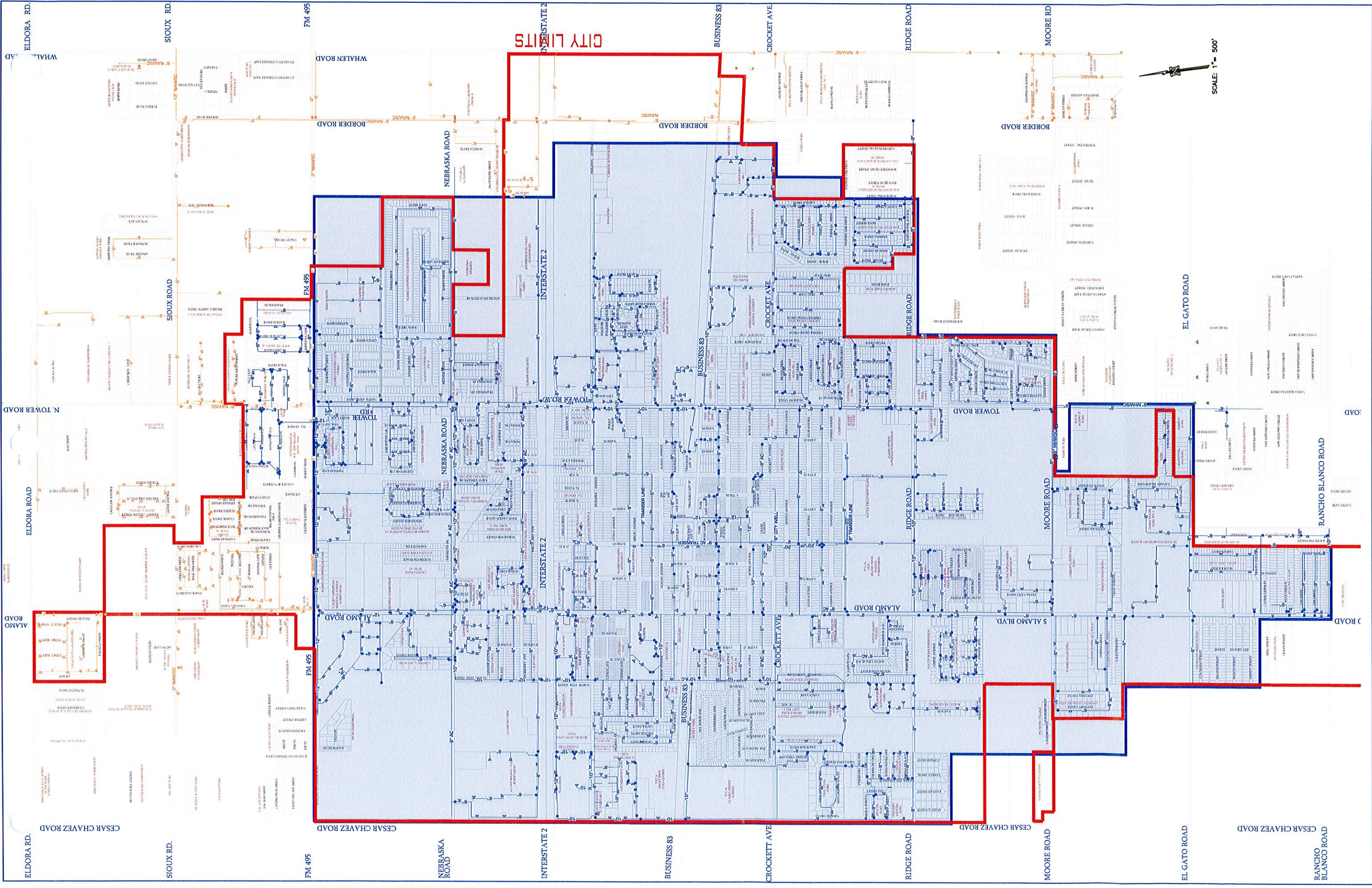
Additionally, the water plant operators are reducing system pressures when pressures at the Tower Road are nearing full capacity.

All tanks generally operated in the top half level of tank with no tanks filling to 100% capacity. All three tanks generally operate in the top half level of the tank bowl.

Figure 2-6 shows the superimposed hydraulic levels of all three tanks over the same 10-day time period.

2.8 EXISTING SYSTEM DEFICIENCIES IDENTIFIED

- Tank level controls and telecommunications incorporated into the water treatment SCADA system are needed to allow the water system operators to better operate the levels of all the elevated tanks.
- The existing inoperable altitude valves need to be replaced on the Tower Elevated Water Storage Tank and the North Elevated Water Storage Tank.
- Exterior and interior paint coatings on both the Tower Elevated Storage Tank and the North Elevated Storage Tank should be monitored, and the coating should be replaced according to results of the required TCEQ inspections.



LEGEND
 CITY OF ALAMO
 CITY LIMITS
 CITY OF ALAMO
 WATER SERVICE AREA

CITY OF ALAMO
WATER AND WASTEWATER MASTER PLAN
2022 WATER SKELETONAL SYSTEM



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MAP No.
2-5

FIGURE 2-3

City of Alamo - Tank Hydraulic Grades
500,000 Gallon Elevated Water Storage Tank - North Tank

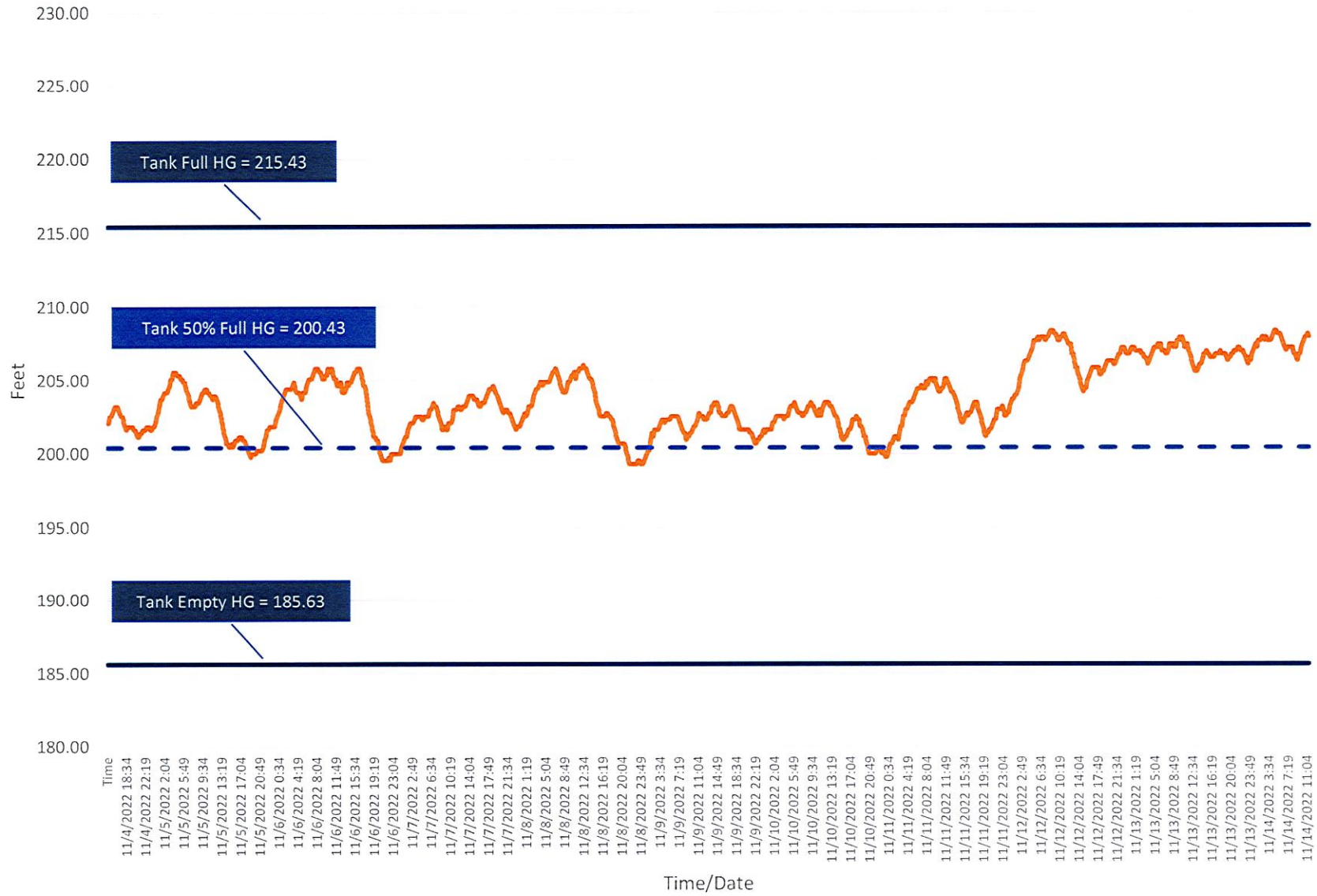


FIGURE 2-4

**City of Alamo - Tank Hydraulic Grades
300,000 Gallon Elevated Water Storage Tank - South Tank**

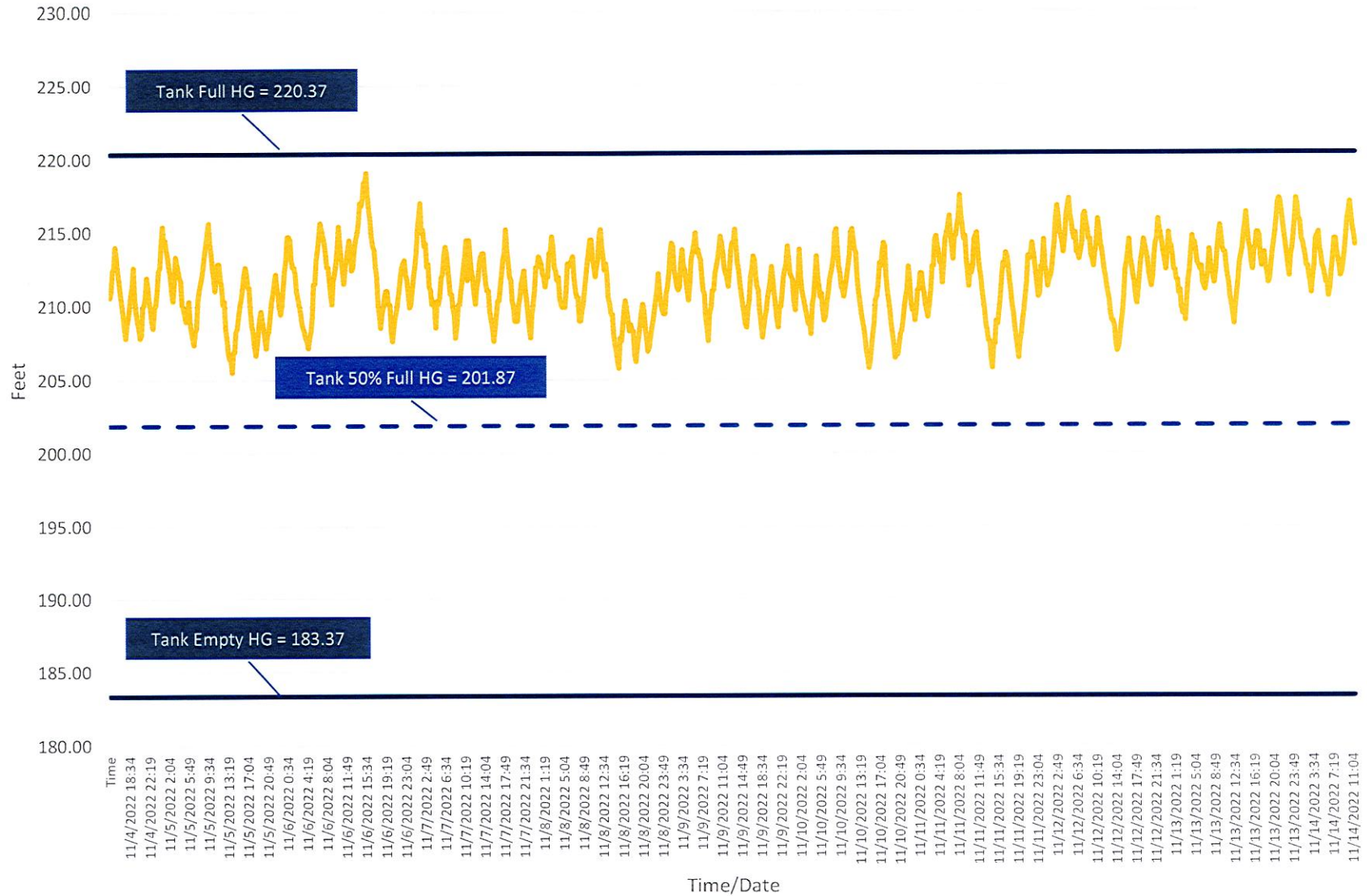


FIGURE 2-5

City of Alamo - Tank Hydraulic Grades
150,000 Gallon Elevated Water Storage Tank - Tower Road Tank

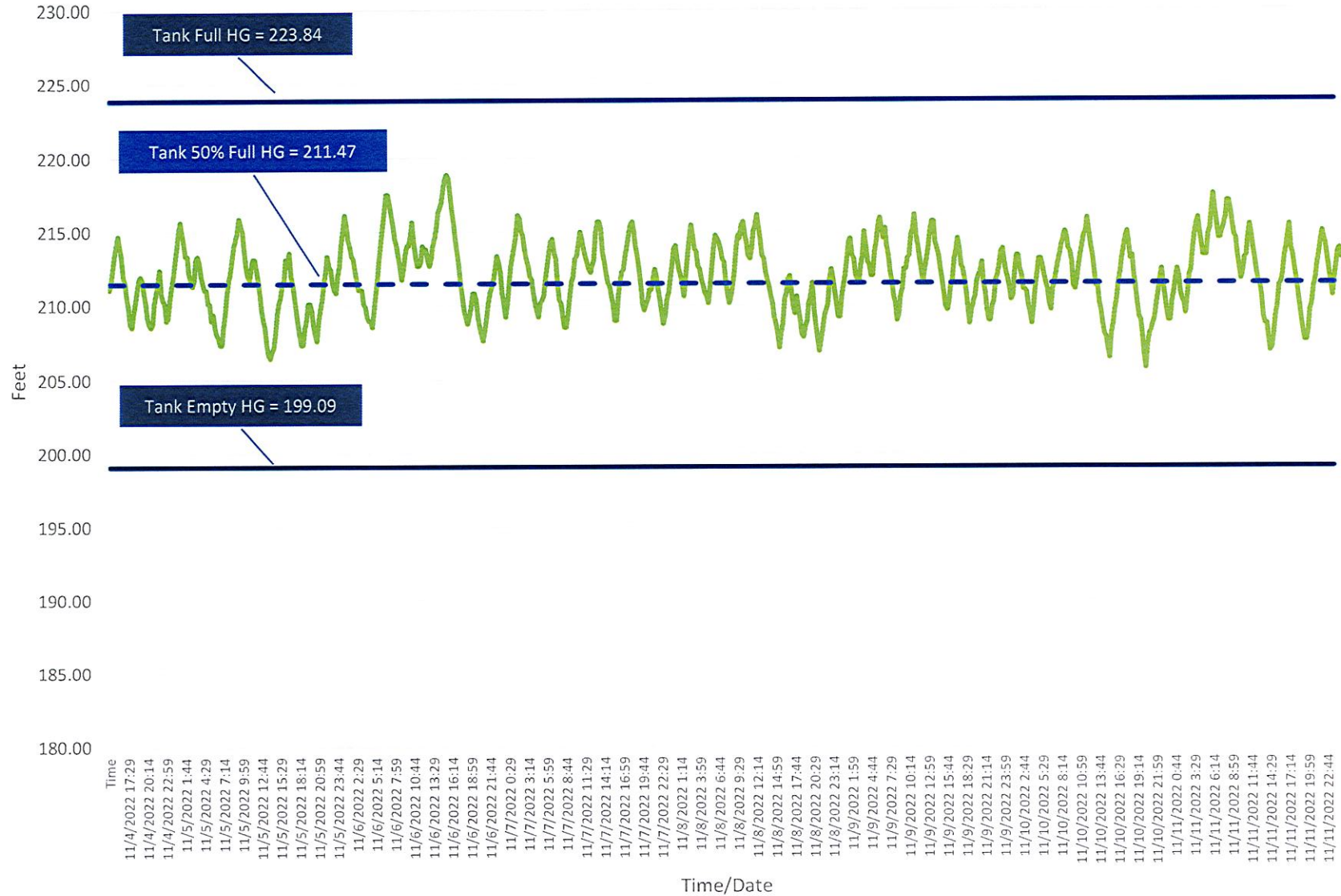
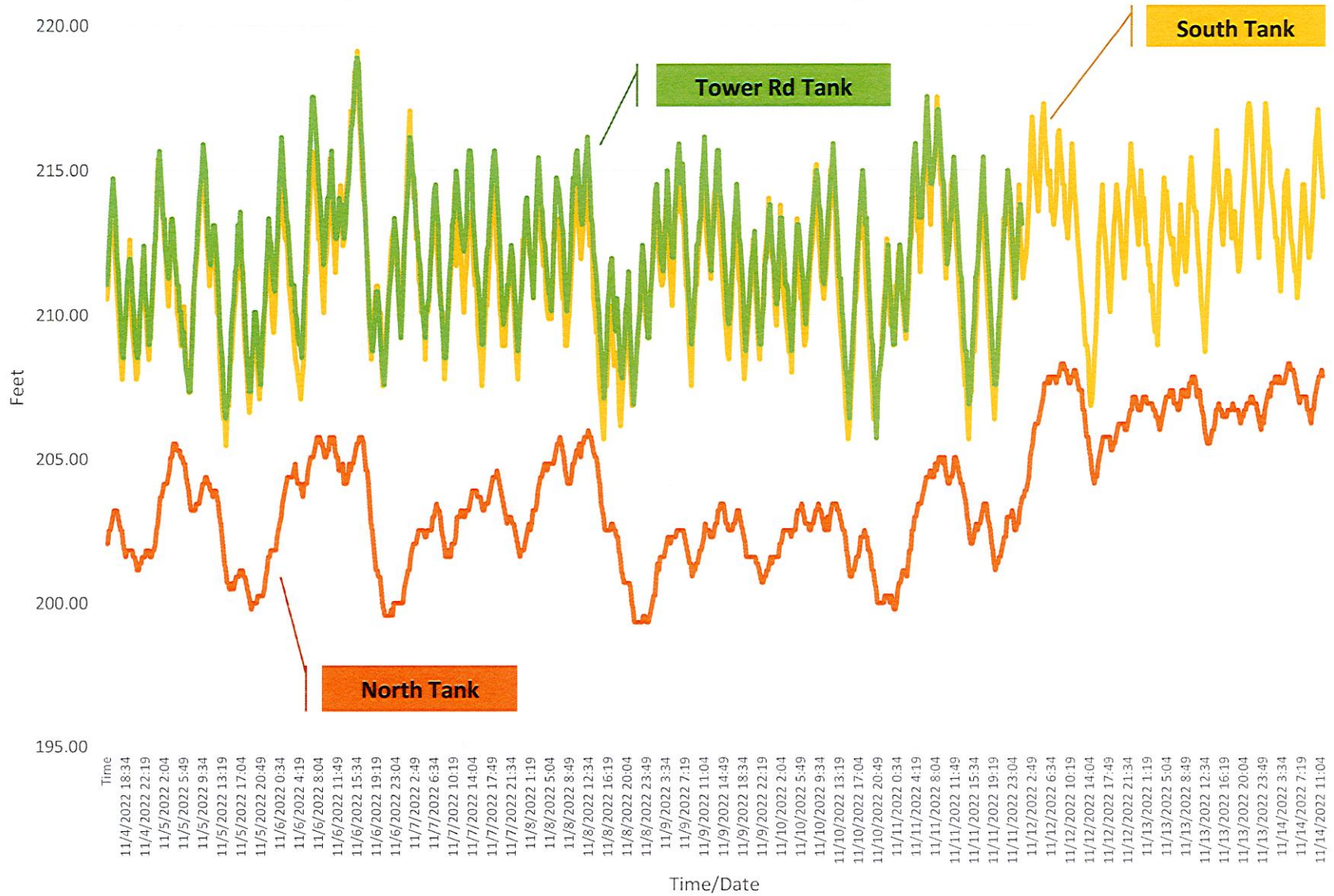


FIGURE 2-6

**City of Alamo
Hydraulic Elevation of all three Water Storage Tanks**



WATER SYSTEM MASTER PLAN

SECTION 3

3.1 INTRODUCTION

3.1.1 Scope of Section

This section presents an analysis of the City of Alamo's projected planning years 2027, 2032, and 2037 water system, and it outlines water system projects to be included in the City's 5-year and 15-year capital improvement plans (CIP). Recommendations regarding scheduling and funding of the projects are described in the implementation plan presented in this report.

The following water issues are addressed in the Water System Master Plan:

- Improvements required to either eliminate and improve the City's current water pressure problems. These improvements are included in the 5-year CIP and are given high priority.
- Improvements required for complying with TCEQ regulations.
- Identification of water system infrastructure projects for the 10-year CIP needed to meet water demands projected for the planning year 2032.

3.1.2 Methodology for Analysis of Future Water Systems

Projected land use and water service area maps for the 2027 through 2037 planning years were developed based on guidance provided by the City. These maps were adjusted as necessary during the modeling process to develop the most efficient service area concept for the five-year planning period, taking into account the existing regional water supply facilities.

Skeletal piping systems were laid out for the land areas expected to be developed in the 5-year and 15-year land use projections. Waterline pipes six inches and larger were included in the recommended water distribution system improvements plan.

Water demands and pipe flows for the planning periods were estimated using the historical water use data, population and land use projections, and the water service area maps.

The proposed 2027 and 2032 water supply systems were modeled using WaterCad software under average peak water use conditions, using TCEQ peak hourly demand criteria, and fire flow conditions.

Based on the modeling results, water distribution system maps were finalized for each planning period and capital improvement projects necessary to construct the 5-year and 10-year systems.

Using the 3-year and 13-year demands generated for the water system model, future water needs were compared with the amount available under current water contracts, considering water available from the existing water supply corporations. Deficits were then identified with and without conservation measures.

The need for additional water treatment plant capacity was evaluated for the 3-year, 13-year, and 18-year program of improvements. Future water treatment plant project needs were evaluated with consideration to past capital investments in the existing plant facilities.

3.1.3 General Recommendation Statement

Some of the recommendations in this section do not involve infrastructure improvements. Instead, they describe actions such as engineering studies to assess existing water treatment plant facilities.

3.1.4 Use of Water System Master Plan Recommendations

The water system master plan is conceptual in nature and is intended to serve as a framework and guide for planning future improvements to the City's water system. Project recommendations within this report should be developed by performing preliminary engineering prior to design and construction of any such project.

The specific guidance project recommendations are as follow:

- The locations of all existing water mains are approximate. The exact location of existing mains should be field verified.
- The locations of proposed improvements are approximate and may be influenced by availability of easements, cost of land, access to power, and other utilities.
- The plan indicates the size of each proposed waterline and the street on which it should be located. The final location of waterlines should be

determined based on existing right-of-way or new right-of-way, as well as on preliminary engineering of a future improvements project.

- The master plan assumes the proposed waterlines will have a minimum of 4 feet of cover unless otherwise noted in the project description. The final depth of waterlines will depend on the depths of other existing utilities, and will have to be determined during the preliminary engineering phase of a project.

3.2 LAND USE IN SEWER CCN BOUNDARY AREA

3.2.1 Existing Land Use

Mapping of the Area of the City's existing land use was provided by City Staff.

Map No. 3-1 shows the 2022 existing land use within the City's existing Water CCN service area.

3.2.2 Future Land Use

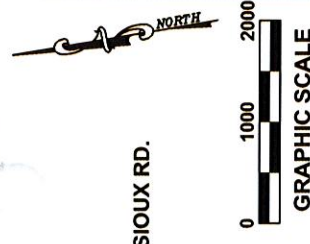
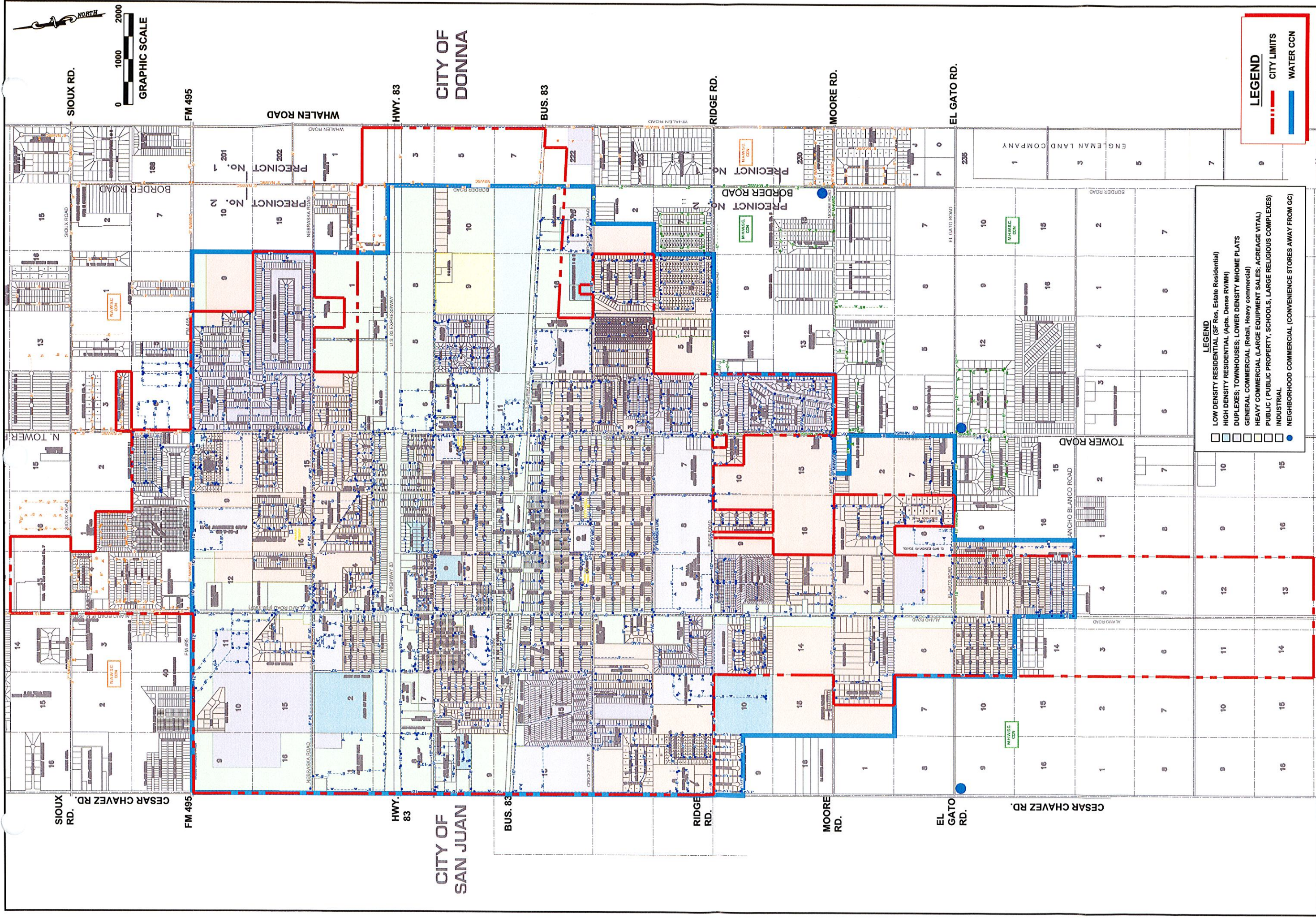
Future 5-year and 10-year land use analysis and projected land use was provided by the City's Planning Department. Future land use for the years 2027 and 2037 are based on the City's anticipated development projections.

The City of Alamo future land use was reviewed and analyzed to identify the areas where additional wastewater infrastructure may be needed within the 5-year and 15-year planning periods.

The area analysis included both areas within the City's existing corporate city limits boundary, and the existing wastewater Certificate of Convenience (CCN) boundary.

The analysis and projections were conducted by visually surveying the existing land use zones and applications. The results of the analysis resulted with the future land use.

Map 3-2 shows projected land use areas for year 2027 and **Map 3-3** shows projected land use areas for year 2037, both provided within this section of the report.

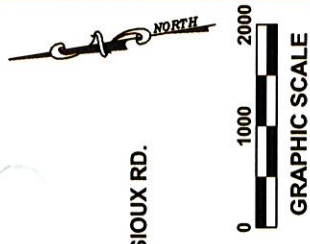
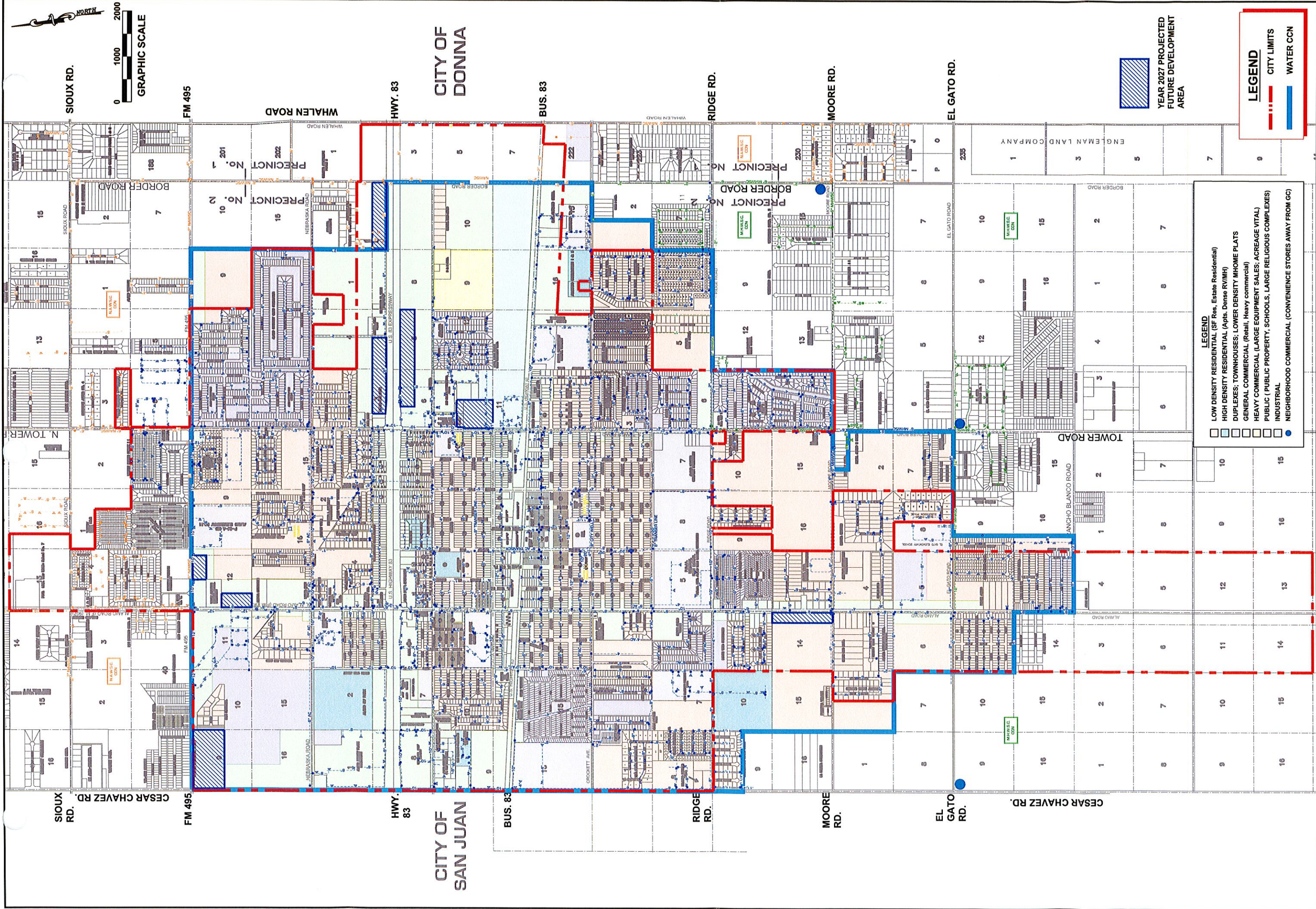


- LEGEND**
- LOW DENSITY RESIDENTIAL (SF Res, Estate Residential)
 - HIGH DENSITY RESIDENTIAL (Apts, Dense RV/MH)
 - DUPLEXES; TOWNHOUSES; LOWER DENSITY MHOME PLATS
 - GENERAL COMMERCIAL (Retail, Heavy commercial)
 - HEAVY COMMERCIAL (LARGE EQUIPMENT SALES; ACREAGE VITAL)
 - PUBLIC (PUBLIC PROPERTY, SCHOOLS, LARGE RELIGIOUS COMPLEXES)
 - INDUSTRIAL
 - NEIGHBORHOOD COMMERCIAL (CONVENIENCE STORES AWAY FROM GC)

- LEGEND**
- - - - CITY LIMITS
 - WATER CCN

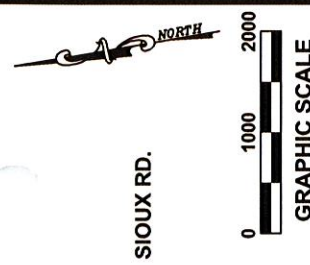
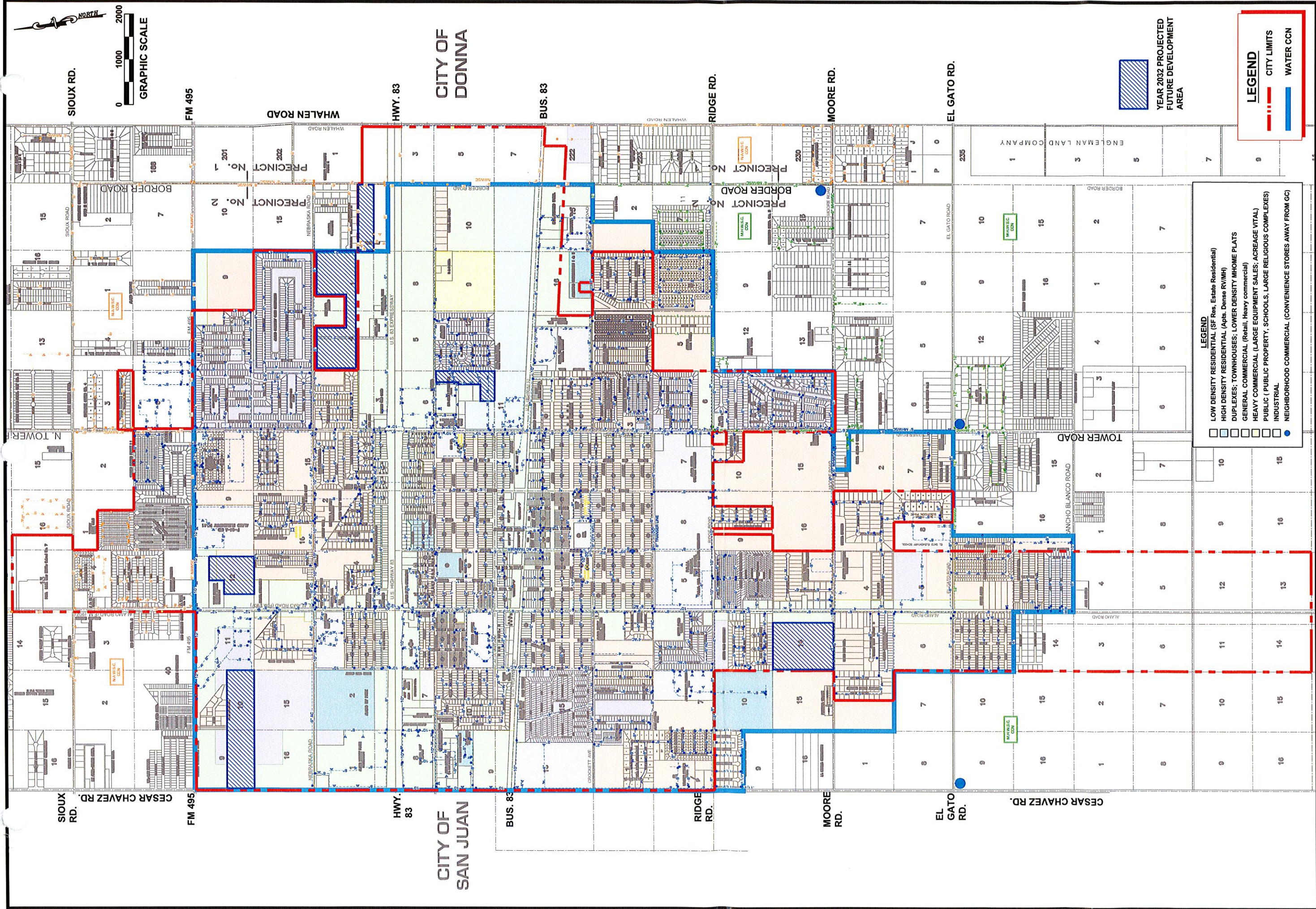
CITY OF ALAMO
 WATER AND WASTEWATER MASTER PLAN
 YEAR 2022 LAND USE MAP WATER CCN AREA

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CRUZ - HOGAN
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 McAllen | Harlingen | Weslaco
 TBPE FIRM REGISTRATION No.: F - 4860



- LEGEND**
- LOW DENSITY RESIDENTIAL (SF Res, Estate Residential)
 - HIGH DENSITY RESIDENTIAL (Apts, Dense RV/MH)
 - DUPLEXES; TOWNHOUSES; LOWER DENSITY MH/OME PLATS
 - GENERAL COMMERCIAL (Retail, Heavy commercial)
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 - INDUSTRIAL
 - NEIGHBORHOOD COMMERCIAL (CONVENIENCE STORES AWAY FROM GC)

- YEAR 2027 PROJECTED FUTURE DEVELOPMENT AREA
- CITY LIMITS
- WATER CCN



- LEGEND**
- LOW DENSITY RESIDENTIAL (SF Res, Estate Residential)
 - HIGH DENSITY RESIDENTIAL (Apts, Dense RV/MH)
 - DUPLEXES; TOWNHOUSES; LOWER DENSITY MH/OME PLATS
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 - INDUSTRIAL
 - NEIGHBORHOOD COMMERCIAL (CONVENIENCE STORES AWAY FROM GC)

- LEGEND**
- CITY LIMITS
 - WATER CCN

YEAR 2032 PROJECTED FUTURE DEVELOPMENT AREA

CITY OF ALAMO
 WATER AND WASTEWATER MASTER PLAN
 YEAR 2032 LAND USE MAP WATER CCN AREA

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MAP No.
3-3

3.3 WATER SERVICE CONNECTIONS PROJECTIONS

3.3.1 Projected Water Connections over next 20 Years

YEAR	2022	2027	2032	2037	2042
PROJECTED NUMBER OF WATER SERVICE CONNECTIONS	6,052	6,520	7,030	7,570	8,150

1. *Historical connections have average approximately 2.0 per year over recent years*
2. *Projections assume a 2.0% growth/year from 2022 through 2027*
3. *1.5% from 2027 to 2042 due to remaining and limiting CCN Service Area*

3.4 RAW WATER SUPPLY AND DEMAND

3.4.1 Water Allocation Projections

Currently the City does not have the sufficient amount of surface water allocations to adequately meet the City’s water treatment plant raw water demand. In recent years, due to a shortage of available water rights, the City has had to resort to annual contract purchasing of leased water rights (leased water) from the Hidalgo County Irrigation District No 2.

The leasing of water rights is usually done through annual purchase contracts with the Hidalgo County Irrigation District at negotiated purchase and delivery rates.

Additionally, with the uncertainty of the amount of raw water that the City will ultimately need in a given year, the purchase of leased water requires the City to pay for the entire lease water purchased amount, regardless if the water is used or not.

Historically, the raw water provided by the Hidalgo County Irrigation District No. 2 over the past nine years has averaged 0.48 ac-ft/connection.

Table 3-1 below shows the projections on the amount of additional water allocations, beyond the amount in reserve by HCID2, which the City will need to purchase or lease over the next 20 years.

**Table 3-1
Additional Raw Water Allocation Requirement Projections
for Next 20 Years**

YEAR	Number of Projected Water Connections	Average Raw Water Consumption per Connection (Ac-Ft/Conn)	Projected Raw Water Demand (Ac-Ft)	Total Raw Water Allocation Available including Subdivision Exclusion(Ac-Ft)	Additional Water Lease or Purchase Required (Ac-Ft)
2022	6,052	0.59	3,570.68	2,598.07	927.61
2025	6,360	0.59	3,752.39	2,734.57	1,017.83
2030	7,030	0.59	4147.00	2,771.07	1,376.63
2035	7,400	0.59	4,366.00	2,807.57	1,558.43
2040	7,760	0.59	4,578.40	2,844.07	1,734.33
2042	7,950	0.59	4,690.50	2,880.57	1,809.93

1. Amount of Raw Water Required per connection of average = 0.59 ac-ft/conn/year based on Historical consumption
2. Water Connection assume a 2% growth/year until 2030 and 1% from 2031 to 2042
3. Assumes a historical subdivision exclusion water allocation amount of 36.5 ac-ft/year
4. The raw water allocations include a 20 percent delivery loss.

3.4.2 Recommended Water Allocations and Water Rights Purchase

Based on the analysis of the current and projected raw water supply and demand, the City should consider doing the following:

- Revise the existing Water Supply Agreement dated October 2, 2008 which will increase the amount of raw water the Hidalgo Irrigation District No. 2 agrees to sell/lease to the City from 1,600-acre feet to 2,000-acre feet per annum for municipal use.
- Purchase Water Rights.

3.5 WATER TREATMENT AND DISTRIBUTION FACILITIES

Table 3-2 below summarizes the projected TCEQ capacity requirements for the water treatment and distribution facilities for the planning years of 2027, 2032, and 2037.

**TABLE 3-2
TCEQ Requirements for 2027, 2032, and 2037 Water Systems**

City of Alamo– Water Service Area Design Criteria	Units	Planning Year			
		2022 Existing	2027 Proposed	2032 Proposed	2037 Proposed
Number of Water Service Connections	each	6,052	6,520	7,030	7,570
<u>Treatment Capacity</u>					
TCEQ Requirements: Required Treatment Capacity per Service Connection (Based on TCEQ Approved ACR of 4.9 gpm/conn)	gpm/conn	0.49	0.49	0.49	0.49
Required Treatment Capacity	mgd	4.25	4.60	4.96	5.34
City of Alamo Treatment Capacity (<i>see note 1</i>)	mgd	5.0	7.50 (1)	7.50 (1)	7.50 (1)
Treatment Capacity per service Connection	gpm/conn	0.57	0.80	0.75	0.68
<u>Total Storage Capacity (ground and elevated)</u>					
TCEQ Requirements: Total Storage Capacity per Service Connection	gal/conn	200	200	200	200
Total Storage Capacity	gal.	1,205,000	1,304,000	1,406,000	1,514,000
City of Alamo: Total Storage Capacity	gal.	2,300,000	2,300,000	2,300,000	2,300,000
Total Storage Capacity per Service Connection	gal/conn	381	352	327	304
<u>Covered Clearwell Storage Capacity at Water Plant</u>					
TCEQ Requirements: Based on 50 gallons per Service Connection	gal.	301,250	326,000	351,500	378,500
Based on 5% of Daily Plant Capacity	gal.	250,000	375,000(1)	375,000(1)	375,000(1)
City of Alamo:	gal.	1,000,000	1,000,000	1,000,000	1,000,000

City of Alamo– Water Service Area Design Criteria	Units	Planning Year			
		2022 Existing	2027 Proposed	2032 Proposed	2037 Proposed
<u>Elevated Storage Capacity</u>					
TCEQ Requirements: Storage Capacity per Service Connection Storage Capacity	gal/con gal.	100 602,250	100 652,000	100 703,000	100 757,000
City of Alamo: Storage Capacity Storage Capacity per Service Connection	gal. gal/con	950,000 157	950,000 145	950,000 135	950,000 125
<u>Service Pumping Capacity</u>					
TCEQ Requirements: For systems that provide 200 gallons/connection, two service pumps required with a total minimum capacity of 0.60 gpm per connection. Alamo does not meet the 200 gallons/connection and does not apply, or A service pump capacity that provides each pump station or pressure plane with two or more pumps a total capacity of 2.0 gpm per connection to meet peak hourly demands with the largest pump out of service, or Total Capacity of 2.0 gpm /con - or - have a total capacity of at least 1.000 gpm and the ability to meet peak hourly demand with largest pump out of service, Peak Hr demand = 1.25 max day demand					
	gpm	12,500	13,040	14,060	15,140
	mgd	4.90	5.30	5.71	6.15
Max Day Demand Peak Hourly Demand	gpm	3,403	3,680	3,970	4,724

City of Alamo– Water Service Area Design Criteria	Units	Planning Year			
		2022 Existing	2027 Proposed	2032 Proposed	2037 Proposed
City of Alamo: Total available Pumping Capacity, with largest pump out of service Based on at least 1,000 gpm @ Peak Hour	gpm	3,500 available	5,250(1) (2)	5,250(1) (2)	5,250(1) (2)

Note: (1) Assumption made that water treatment plant is expanded to 7.50 mgd within the next five years and prior to year 2032. (2) Assume 3 pumps rated 1,750 added with plant expansion above.

3.5.1 Treated Water Demand and Plant Production Capacity

The City of Alamo’s maximum daily treated water demand is projected to increase approximately 8% over the next five years, approximately 16% over the next ten years, and approximately 25% over the next 15 years. The projected future maximum water treatment capacity demands are shown on **Figure 3-1**.

TCEQ regulations require that water treatment plants have a treatment capacity of 0.60 gpm per connection under normal rated design flow. However, the City has requested that TCEQ review historical plant treatment and pumping records for possible reduction of the water plant’s capacity requirements. The City received a revised Alternate Capacity Requirement (**ACR**) from TCEQ of 0.49 gpm per connection. The revised **ACR** will be used for planning water treatment capacity requirements over the next 20 years.

Based on the projected number of water service connections amount of 6,052 for year 2022 and the revised capacity requirement (**ACR**) of 0.49 gpm per connection, the current plant treatment capacity requirement is calculated to be 4.25 mgd or approximately 85% of the existing plant’s rated treatment capacity.

TCEQ requires public water treatment plants which have reached the 85% plant capacity amount to begin the planning for additional water treatment capacity. In order to comply with the TCEQ requirements, the City of Alamo should now commence the planning process to expand the water treatment plant capacity to meet future required treatment capacities.

Based on the number of current and future water service connection projections shown on **Table 3-2**, a water treatment plant expansion for additional treatment capacity of 2.5 MGD is currently required to meet the 2032 planning year capacity treatment requirement of 4.96 mgd.

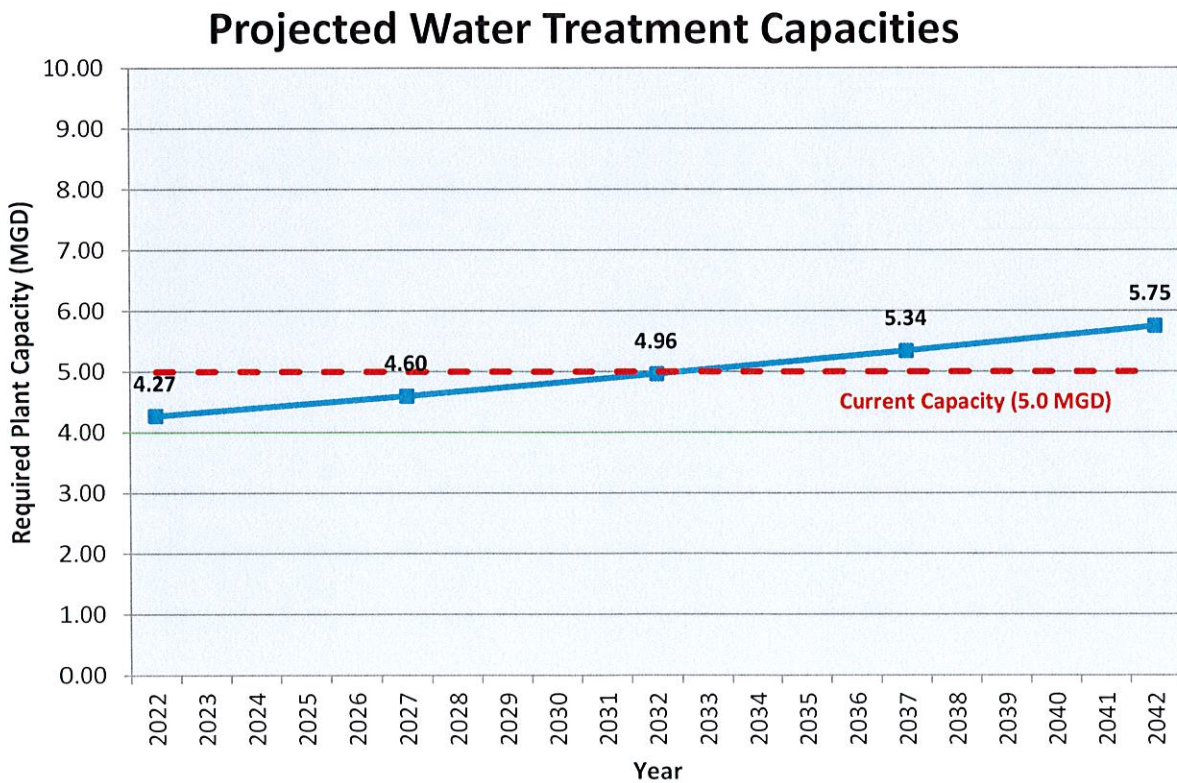
Figure 3-1

FUTURE WATER TREATMENT PROJECTED CAPACITY REQUIREMENTS

YEAR	2022	2027	2032	2037	2042
Projected Number of Water Connections *	6,052 (Actual)	6,520	7,030	7,570	8,150
Water Treatment Capacity Demand (gpm/conn)	0.49	0.49	0.49	0.49	0.49
Required Water Treatment Capacity (mgd)	4.27	4.60	4.96	5.34	5.75

*Note: Assume 2% Annual Growth Factor Until 2027

Assume 1.5% Annual Growth Factor From Year 2027 through 2042



The existing water treatment plant facility is a modular-type plant, which was originally designed to be expanded in 2.50 mgd treatment increments. Future capacity treatment expansions of 2.50 mgd would be required to meet the existing plant layout.

It is estimated that in planning year 2032, the water treatment plant capacity with the additional required 2.50 mgd expansion being completed within the 5-year comprehensive plan (total plant capacity 7.50 mgd) will be approximately 66 percent of total plant capacity.

In fifteen years to planning year 2037, the City's water system is estimated to have approximately 7,570 service connections. With these water service connections, it is estimated that the City would require 5.34 MGD of water treatment capacity. In year 2037, (with the 2.50 mgd expansion in year 2027 to a total treatment plant capacity of 7.50 mgd), the water treatment plant would be at approximately 72 percent of its rated plant capacity.

3.5.2 Total Water Storage Capacity

Table 3-2 summarizes the TCEQ requirements for the total water storage (combined ground storage and elevated storage) capacity for the 2032 and 2037 planning years. TCEQ requires that a water system have sufficient combined water storage minimum of 200 gallons for each water service connection.

Based on the projected number of service connections in planning years 2027 and 2032, Alamo's existing combined ground and elevated storage capacity is sufficient to meet regulatory requirements through 2032 and beyond.

3.5.3 Water Treatment Plant Covered Clearwell/Ground Storage Capacity

Table 3-2 summarizes the TCEQ requirements for clearwell/ground water storage for the 2032 and 2037 planning years. TCEQ requires that a water system have a clearwell/ground water storage capacity minimum of 50 gallons for each water service connection and on the 5 percent of water treatment plant daily capacity.

Based on the projected number of service connections in 2027 and 2032, the City of Alamo's existing water treatment plant covered storage capacity is sufficient to meet regulatory requirements through 2032 and beyond.

3.5.4 Elevated Storage Tanks Capacity

Table 3-2 summarizes the TCEQ requirements for elevated water storage for the 2032 and 2037 planning years. TCEQ requires that a water system have an elevated water storage capacity minimum of 100 gallons for each water service.

Based on the projected number of service connections for the years 2032 and 2037, the City of Alamo's existing elevated storage capacity is sufficient to meet requirements through 2032 and 2037. In year 2032, the City would need an additional 703,000 gallons of elevated storage and will have 950,000 gallons at that time.

3.5.5 High Service Pumping Capacity

Table 3-2 summarizes the TCEQ requirements for the high service pumping for the 2032 and 2037 planning years.

TCEQ regulations require that 0.6 gpm of pumping capacity per service connection be provided for systems with elevated storage capacity greater than 200 gallons per connection; or 2.0 gpm of pumping capacity per service connection for systems with elevated storage capacity less than 200 gallons per service connection.

Currently, the City does not meet the 0.60 gpm per connection requirement with an elevated storage capacity of 200 gallons per service connection nor does it meet the 2.0 gpm of pumping capacity per service connection requirement.

Alternatively, for a water system that does not meet the 200 gallons per service connection high service pump requirement, TCEQ will allow for a service pump capacity of having a total capacity of at least 1,000 gpm and having the ability to meet peak hourly demand, with the largest high service pump out of service.

The City does not meet this alternative high service pumping requirement either. It is estimated that the City would need to add 250 gpm additional high service pumping capacity to meet year 2022 high service pumping requirements, and 820 gpm to meet year 2032 requirements.

It is recommended that additional high service pumping capacity be added to the existing water treatment plant with the 2.50 MGD expansion that is recommended in the 5-year capital improvements plan.

3.5.6 Existing Waterlines Experiencing Breaks and Needing to be Replaced

In meeting with City waterworks staff, various existing waterlines were identified as needing to be replaced due to numerous water breaks and leaks. These faulty lines are all constructed of asbestos cement (AC), and have been in the ground for decades.

Map 3-4 shows the existing (**year 2022**) waterlines needing replacement.

As part of this report, existing waterlines needing replacement are included in the 5-year capital improvements plans.

3.6 HYDRAULIC ANALYSIS OF THE 2022 WATER DISTRIBUTION SYSTEM

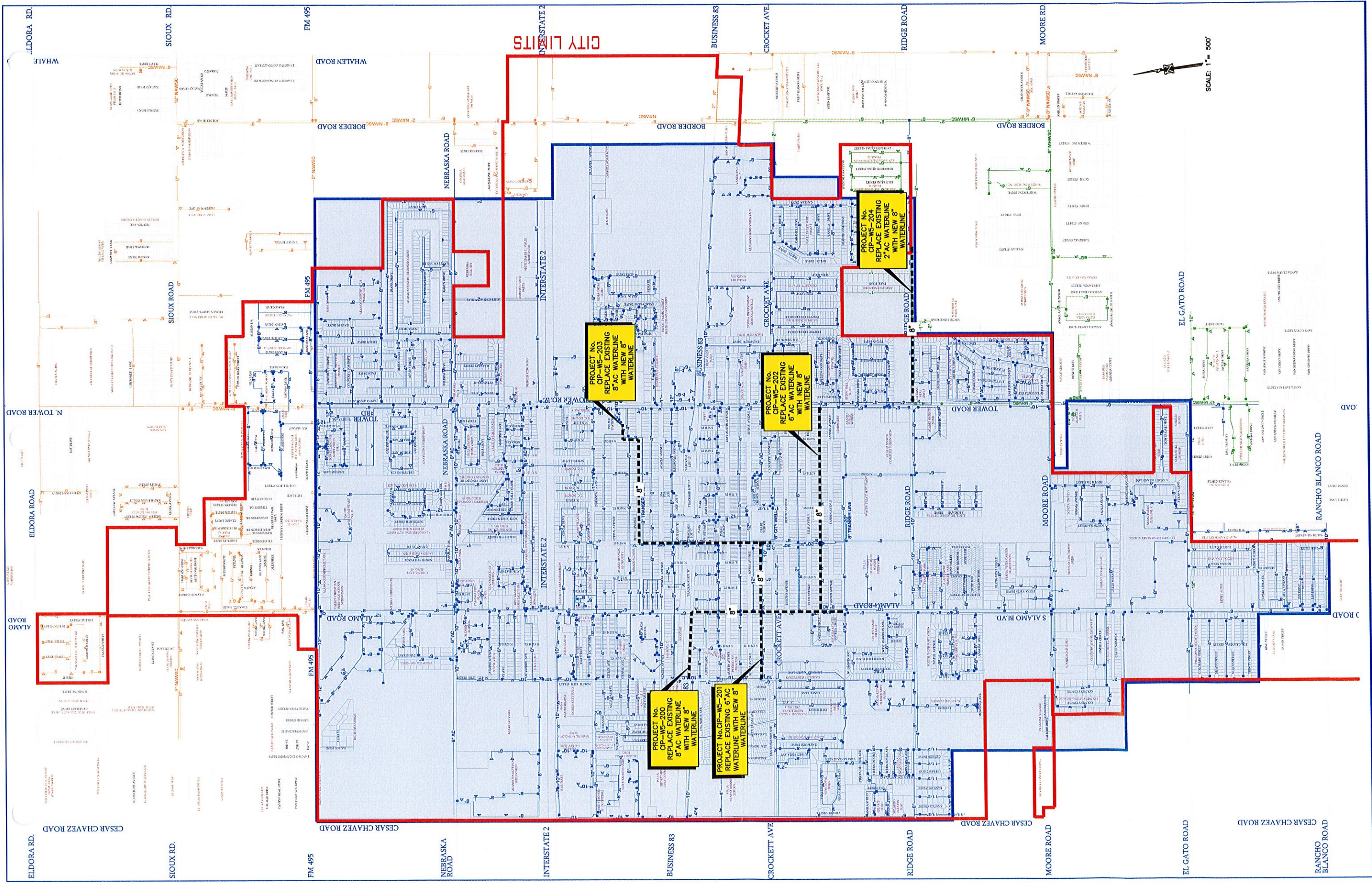
The existing 2022 water system hydraulic analysis results indicate that several areas within the current water system do not meet the minimum TCEQ requirement that pressures are to be maintained at 35 psi or higher under peak demands. The system shows failure to maintain pressures throughout the entire system. With expected growth of the city and the equivalent service connections, the main branches of the water system are undersized. Waterline improvements required to be implemented to meet current TCEQ minimum pressure requirements are included in the year 2027 analysis and in the 5-year capital improvements priority plan.

3.7 HYDRAULIC ANALYSIS FOR 2027 WATER DISTRIBUTION SYSTEM

3.7.1 Objectives

The objectives of the hydraulic analysis of the City's 2027 water system are to:

- Identify areas of low water pressure under year 2027 peak demand conditions.
- Identify areas of fire flow deficiencies under year 2027 peak demand conditions.
- Reevaluate the existing system deficiencies associated with the inability to fully utilize existing elevated storage tank capacity (under year 2027 average demand conditions and with new water lines in place).



SCALE: 1" = 500'

LEGEND
 CITY OF ALAMO
 CITY LIMITS
 CITY OF ALAMO
 WATER SERVICE AREA

CITY OF ALAMO
WATER AND WASTEWATER MASTER PLAN
2022 EXISTING WATERLINES NEEDING REPLACEMENT

CRUZ - HOGAN
 ENGINEERS | PLANNERS
 McAllen Herlingen Weslaco

MAP No.
3-4

- Support the development of water main lines to serve new development areas.

The 2027 model was developed by updating the 2022 skeleton computer model to include the new lines being recommended. These waterlines are shown on **Map No. 3-4**.

Table 3-3 summarizes the objectives of the steady-state (STD) and extended period simulation (EPS) model runs to assess the City's 2022 water system. Also shown are the modeling input parameters for each of the 2027 model runs.

TABLE 3-3
Hydraulic Model 2027 Requirements

MODEL	TITLE	OJECTIVE	PARAMETERS
STD	2027 Pressure model	Evaluate TCEQ requirements of 35 psi at 1.5 gpm demand/connection	6,520 connections @1.5 gpm= 9,780 gpm 6-inch and larger water mains 3-elevated water tanks 5-high service pumps Existing transfer line system
FF	2027 Available Fire Flow	Evaluate TCEQ requirement of 20 psi w/ drinking water flow conditions & fire flow	Drinking Demand = 3,195 gpm = 2.27 MGD Fire flows = 1,500 gpm for 2 hours

3.7.2 Water Pressures 2027 Modeling Results

Hydraulic model summarized in **Table 3-3** was used to assess the TCEQ's requirement that pressures throughout the City are 35 psi under flow rates of 1.5 gpm per service connection. In comparison to the 2022 water model, the system successfully meets TCEQ requirements for pressures to be maintained at 35 psi or higher under flow rates of 1.5 gpm per service connection. These water system pressure improvements can be attributed to the recommended installation of new lines after analyzing the 2022 model.

The 2027 water model includes waterline improvements required to allow the City's waterline distribution system to maintain a minimum of 35 psi pressures during peak demands. These improvements are identified as follows:

- New 10" waterline installation along Alamo Road, from Ridge Road to El Gato Road.

- New 10" waterline installation along Ridge Road and Tower Road, from South 7th Street to Las Fuentes Drive.
- New 8" waterline installation along Ridge Road, from Tower Road to Pelican Street.

Map 3-5 shows these waterline improvements. **Note:** The additional waterlines shown on this map are the existing waterlines being proposed to be replaced due to their deteriorating condition or those that need to be replaced with larger waterlines to allow for higher pressures required for fire protection.

3.7.3 Fire Fighting Requirements Model Results

Hydraulic modeling was used to assess the TCEQ's requirements that pressures throughout the City are to be maintained at 20 psi under water supply and fire flow conditions. The 2027 model does not meet the required pressures of 20 psi during a two-hour fire flow scenario. The fire flow of 1,500 gpm for two hours, under peak water demand, was selected to meet the fire flow requirements.

Hydraulic modeling used to evaluate fire flows showed that the system has adequate fire flows available throughout most of the waterline system. However, low fire flows were observed in mostly the northeastern and southern parts of the City. Areas where fire flows are deficient are shown in the hydraulic analysis included in **Section 2 of the Appendices**.

Low fire flows can be attributed to undersized mains, un-looped waterlines, the equivalent demands on undersized lines, and general growth of the City.

It is important to note that only lines 6 inches and larger were modeled; and that there are various areas within the system that may still be served by lines smaller than 6 inches in diameter that would be inadequate for fire flows.

3.7.4 Filling and Drawing Down Elevated Storage Tanks Model Results

The filling and draining cycles for the City's elevated storage tanks is based on the simulation of the existing water system under typical operating conditions.

Pressure recorders were installed on all three elevated water storage tanks over a 10-day period to determine the cycling of the water in each tank, and to determine the hydraulic grades and pressures in the tanks during a normal operating timeframe. Pressure recorders were installed on November 4, 2022 and removed on November 14, 2022.

The results of the 10-day pressure recordings are included in **Appendix D** of this report.

All three tanks were filling and draining throughout the day, with two diurnal curves experienced throughout a 24-hour period. The mid-day peak levels were lower than the evening peak levels. It was noted that the system tank hydraulic levels in both the Tower Tank and the South Tank were very similar. However, the system hydraulic levels in the North Tank were much lower.

With all three tanks included in this modeling scenario, the North Tank will control the system with both the South and Tower Tanks remaining full the majority of the time. The South tank fill and drain as necessary. This limits the storage capacity and functionality of the system since those tanks remain full and will not drain down unless done so for water circulation purposes.

3.8 HYDRAULIC ANALYSIS OF 2032 WATER DISTRIBUTION SYSTEM

3.8.1 Objectives

The objectives of the hydraulic analysis of the City's 2032 water system are to:

- Assess areas of low water pressure under year 2032 that are under flow rates of 1.5 gpm per service connection.
- Assess areas of fire flow deficiencies under year 2032 peak demand conditions.

Table 3-4 summarizes the objectives of the steady-state (STD) and extended period simulation (EPS) model run to assess the City's 2032 water system. Also shown are the modeling input parameters used for each of the 2032 model runs.

The 2032 model simulation includes the 2032 water system improvements lines that are shown, and new lines recommended for installation by year

**TABLE 3-4
Hydraulic Model 2032 Requirements**

MODEL	TITLE	OBJECTIVE	PARAMETERS
STD	2032 Pressure model	Evaluate TCEQ requirements of 35 psi at flow rates of 1.5 gpm per service connection	7,030 connections @1.5 gpm= 10,545 gpm 6-inch and larger water mains New waterlines based on 2032 model 3-elevated water tanks 3-high service pumps Transfer system
FF	2032 Available Fire Flow	Evaluate TCEQ requirement of 20 psi w/ drinking water flow conditions & fire flow	Drinking Demand = 3,447 gpm = 2.51 MGD Fire flows = 1,500 gpm for 2 hours

3.8.2 Water Pressures 2032 Modeling Results

The hydraulic model summarized in **Table 3-3** was used to assess the TCEQ's requirement that pressures throughout the City are 35 psi under flow rates of 1.5 gpm per service connection. In comparison to the 2022 water model, it was observed that the system successfully met TCEQ requirements for pressures to be maintained at 35 psi or higher under flow rates of 1.5 gpm per service connection. These water system pressure improvements can be attributed to the recommended installation of new waterlines after analyzing the 2032 model.

The 2032 water model includes waterline improvements required to allow the City's waterline distribution system to maintain minimum 35 psi pressures during peak demands. Such improvements were identified as follows:

- New 8" waterline installation along an existing drainage ditch and along the most eastern boundary line of the City's water CCN area (from Expressway Frontage Road to Nebraska Road, connecting to the existing 8" waterline on back of existing Alamo Country Club)

Map 3-6 shows these waterline improvements. **Note:** The additional waterlines shown on this map are the existing waterlines being proposed to be replaced due to their deteriorating condition or those that need to be replaced with larger waterlines to allow for higher pressures required for fire protection.

3.8.3 Fire Fighting Requirements Model Results

Hydraulic modeling was used to assess the TCEQ's requirements that pressures throughout the City are to be maintained at 20 psi under water supply and fire flow conditions. The 2027 model does not meet the required pressures of 20 psi during a two-hour fire flow scenario. The fire flow of 1,500 gpm for two hours, under peak water demand, was selected to meet the fire flow requirements.

Hydraulic modeling used to evaluate fire flows showed that the system has adequate fire flows available in several parts of the City. The low fire flows were observed in mostly the northeastern and most southern parts of the City.

Areas where fire flows are deficient are shown in the hydraulic analysis included in the **Section 2 of the Appendices**.

Lower fire flows can be attributed to mostly undersized waterline mains, peak demands, un-looped waterlines, and general growth of the City.

It is important to note that only lines 6 inches and larger were modeled, and that there are various areas within the system that may still be served by lines smaller than 6 inches in diameter that are inadequate for fire flows.

3.9 HYDRAULIC ANALYSIS OF 2037 WATER DISTRIBUTION SYSTEM

3.9.1 Objectives

The objectives of the hydraulic analysis of the City's 2037 water system are to:

- Assess areas of low water pressure under year 2032 flow rates of 1.5 gpm per service connection.
- Assess areas of fire flow deficiencies under year 2037 peak demand conditions.

Table 3-5 summarizes the objectives of the steady-state (STD) and extended period simulation (EPM) model run to assess the City's 2037 water system. Also shown are the modeling input parameters used for each scenario of the 2037 model run.

The 2037 model simulation includes the 2032 water system improvements lines that are shown, and new lines recommended for installation by year 2032.

TABLE 3-5
Hydraulic Model 2037 Requirements

MODEL	TITLE	OBJECTIVE	PARAMETERS
STD	2037 Pressure model	Evaluate TCEQ requirements of 35 psi at flow rates of 1.5 gpm per service connection	7,038 connections @1.5 gpm= 12,870 gpm 6-inch and larger water mains New waterlines based on 2015 model 3-elevated water tanks 5-high service pumps Transfer system
FF	2037 Available Fire Flow	Evaluate TCEQ requirement of 20 psi w/ drinking water flow conditions & fire flow	Drinking Demand = 1,741 gpm = 2.51 MGD Fire flows = 1,500 gpm for 2 hours

3.9.2 Water Pressures 2037 Modeling Results

The hydraulic model summarized in **Table 3-5** was used to assess the TCEQ's requirement that pressures throughout the City are 35 psi under flow rates of 1.5 gpm per service connection. In comparison to the 2032 water model, we observed that the system successfully met TCEQ requirements for pressures to be maintained at 35 psi or higher under flow rates of 1.5 gpm per service connection. These water system pressure improvements can be attributed to the recommended installation of new lines, after analyzing the 2037 model.

The 2032 water model includes waterline improvements required to allow the City's waterline distribution system to maintain minimum 35 psi pressures during peak demands. Improvements to meet this requirement include the following:

- New 12" waterline along Cesar Chavez Road and FM 495, from IH2 Expressway to Ville Vista Street.

Map 3-7 shows these waterline improvements. **Note:** The additional waterlines shown on this map are the existing waterlines being proposed to be replaced due to their deteriorating condition or those that need to be replaced with larger waterlines to allow for higher pressures required for fire protection.

3.9.3 Fire Fighting Requirements Model Results

Hydraulic modeling was used to assess TCEQ's requirements that pressures throughout the City are to be maintained at 20 psi under water supply and fire flow conditions. The 2037 model does not meet the required pressures of 20 psi during a two-hour fire flow scenario. The fire flow of 1,500 gpm for two hours, under peak water demand, was selected to meet the fire flow requirements.

Hydraulic modeling used to evaluate fire flows showed that the system has adequate fire flows available in several parts of the City. The low fire flows were observed in areas mostly located in the northeastern and most southern parts of the City.

Areas where fire flows are deficient are shown in the hydraulic analysis included in **Section 2 of the Appendices**.

Lower fire flows can be attributed mostly to undersized waterline mains, peak demands, un-looped waterlines, and general growth of the City.

It is important to note that only lines 6 inches and larger were modeled, and that there are various areas within the system that may still be served by lines smaller than 6 inches in diameter that are inadequate for fire flows.

3.10 PROJECTS RECOMMENDED FOR CAPITAL IMPROVEMENTS PLAN

Based on the capacity analysis of Alamo's water treatment and distribution facilities, the following projects are recommended for inclusion in the water system capital improvements plan.

3.10.1 Raw Water Supply

- Project involves the purchase of 1,000 acre-feet of municipal water rights to meet projected annual raw water demand through the year 2037. As an alternative, the City could continue to lease water from Hidalgo County Irrigation District No. 2. Water purchase agreements would need to be amended in order to secure the additional water required through a 20-year period.

3.10.2 Water Treatment Plant Rehabilitation and Expansions

- Water Treatment Plant Rehabilitation. Rehabilitation would include structural repairs to existing metal plant components and new paint coatings.

Note: City should consider the construction and/or the installation of temporary water treatment facilities to allow for normal uninterrupted water treatment operations during the rehabilitation of the existing treatment structures.

- Water treatment plant 2.5 mgd expansion by planning year 2032. The water plant treatment capacity would need to be increased from the current 5.0 mgd to a total plant treatment capacity of 7.5 mgd. Plant expansion would include the addition of backwash and settling basins, “CBI Claricone”, and additional metal “CBI filters”.
- Replacement of the water plant’s electrical systems and replacement of electrical control systems (SCADA).
- Replacement of failing disinfection systems.

3.10.3 High Service Pumping

- Additional high service pumping capacity to meet TCEQ requirements. Improvements would include additional high service pumping capacity at the existing water plant location. Additional high service pumping capacity would be added with the water plant expansion project described above.

3.10.4 Existing Waterline Replacements

The following list shows existing asbestos cement (AC) waterlines which are experiencing deterioration and frequent breaks and leaks. These waterline replacements were identified by Public Works staff.

- Replace existing 6” Asbestos Cement waterline located on South Alamo Road, from Business Highway 83 to Ortega Circle; and install new 8” waterline on Business Highway, from 12th Street to Alamo Road.

Total Length: 3,500 Linear Feet

- Replace existing 6” Asbestos Cement waterline located in existing alley, south of Bowie Avenue, starting at South 13th Street and ending on South 9th Street; replacement will be with a new 8” line network.

Total Length: 2,700 Linear Feet

- Replace existing 6” Asbestos Cement waterline located in existing alley, south of Ellis Avenue, starting at South Alamo Road and ending on Tower Road; replaced with an 8” network.

Total Length: 3,900 Linear Feet

- Replace existing 8" Water Transfer Line at the old abandoned water treatment plant; to end at the existing water ground storage tank and elevated water storage tank on Tower Road.

Total Length: 5,000 Linear Feet

The existing waterline replacement projects are shown on **Map Nos. 3-5, 3-6, and 3-7.**

3.10.5 Existing Waterline Enlargements Projects

Based on the hydraulic water modeling, the following list shows the existing waterlines that require enlargement or need to be added to the City's existing water distribution system in order to meet peak water capacity and fire pressures requirements.

- New 10" waterline installation along Alamo Road, from Ridge Road to El Gato Road.

Total Length: 5,200 Linear Feet

- New 10" waterline installation along Ridge Road and Tower Road, from South 7th Street to Las Fuentes Drive.

Total Length: 31,000 Linear Feet

- Replace existing 2" waterline with new 8" waterline located on Ridge Road, starting at South Tower Road and ending on Pelican Street.

Total Length: 3,100 Linear Feet

- Replace existing 1" and 2" waterline with new 8" waterline located on T.C. Downs Street and on North 7½ Street; starting at Expressway and ending on Duranta Avenue.

Total Length: 1,900 Linear Feet

- Replace existing 4" waterline with new 8" waterline located in alley, south of Hackberry; starting east of Alamo Road and ending at the Hackberry and North 8th Street intersection.

Total Length: 1,900 Linear Feet

- Replace existing 2" waterline with new 8" waterline located on the Laguna Park Subdivision Drive, on North 9th Place and on Papalote Drive; starting on Nebraska Road.

Total Length: 2,500 Linear Feet

- Replace existing 2" waterlines located in alley, south of Desoto Avenue, with new 8" waterline; starting on Alamo Road and ending on South 9th Street.

Total Length: 1,300 Linear Feet

- Replace existing 2" and 4" waterlines, along Crockett Avenue, with new 8" waterline; starting on Alamo Road and ending on South 9th Street.

Total Length: 1,300 Linear Feet

- Replace existing 2" and 3" waterlines located in alley, south of Crockett Avenue, with new 8" waterline; starting on South 7th Street and ending on Tower Road.

Total Length: 1,300 Linear Feet

- Replace existing 2", 3", and 4" waterlines located in alley, south of Bowie Avenue, with new 8" waterline; starting on South 6th Street and ending on 4th Street, extended.

Total Length: 1,600 Linear Feet

- Replace existing 2", 3", and 4" waterlines located in alley, south of East Austin Avenue, with new 8" waterline; starting on South 8th Street and ending on 4th Street, extended.

Total Length: 3,100 Linear Feet

- Replace existing 4" waterlines located in alley, south of Duranta Avenue, with new 8" waterline; starting on North 13th Street and ending on Alamo Road.

Total Length: 1,300 Linear Feet

- Replace existing 2" and 3" waterlines located in alley, south of Citrus Avenue, with new 8" waterline; starting on South 13th Street and ending on Alamo Road.

Total Length: 1,300 Linear Feet

- Replace existing 4" waterlines located in alley, south of Duranta Avenue, with new 8" waterline; starting on Alamo Road and ending on 10th Street.

Total Length: 600 Linear Feet

- Replace existing 2" waterlines located in alley, south of Citrus Avenue, with new 8" waterline; starting on Alamo Road and ending on 10th Street.

Total Length: 600 Linear Feet

- New 12" waterline along Cesar Chavez Road and FM 495, starting on the south Frontage Road of Interstate Expressway 2 and Cesar Chavez Road and ending at Valle Vista Street. This waterline will provide a necessary waterline loop required for future water and fire flow demands for the northeastern part of the City's water service area.

Total Length: 7,000 Linear Feet

- New 8" waterline along the north Interstate Expressway 2 Frontage Road, starting on Alamo Road and ending on Tower Road. This waterline will provide looping of existing waterlines, and will provide a new waterline for the installation of fire hydrants in the mostly commercial area.

Total Length; 3,700 Linear Feet

- New 8" waterline along the south Interstate Expressway 2 Frontage Road, starting on Alamo Road and ending on Tower Road. This waterline will provide looping of existing waterlines, and will provide a new waterline for the installation of fire hydrants in the mostly commercial area.

Total Length; 3,700 Linear Feet

- New 8" waterline installation along existing drainage ditch and along the most eastern boundary line of the City water CCN area, from the Expressway's Frontage Road to Nebraska Road; connecting to the existing 8" waterline on back of existing Alamo Country Club.

Total Length: 1,600 Linear Feet

The existing waterline enlargement projects are shown on **Map Nos. 3-5, 3-6, and 3-7.**

3.11 NUMBERING SYSTEM FOR 5-YEAR AND 15-YEAR CIP'S

The capital improvements recommended in the Water and Wastewater Master Plan have been organized into categories shown in **Table 3-6**, below. Each category has been assigned a block of numbers which are used to identify individual projects.

**TABLE 3-6
NUMBERING SYSTEM FOR PROPOSED WATER PROJECTS**

PRIMARY PROJECT NUMBER	SECONDARY PROJECT NUMBER	CATEGORY
	Water Distribution System Projects	Water Distribution System Projects
	-100	Water Supply
	-200	Water Distribution System Projects
	-300	Treated Water Storage and Pumping Projects
	-400	Water Treatment Projects
	-500	Other Projects
CIP15-WS-		15-YEAR CIP WATER SYSTEM PROJECTS
	-100	Water Supply and Raw Water Facility Projects
	-200	Water Distribution System Projects
	-300	Treated Water Storage and Pumping Projects
	-400	Water Treatment Projects
	-500	Other Projects

3.12 5-YEAR PLAN FOR WATER SYSTEM IMPROVEMENTS - Year 2027

Table 3-7 summarizes the 5-year CIP (year 2027) recommended for the City's water system. Projects are identified in this Section of the report.

These projects are recommended to be implemented and completed prior to the year 2027.

Projects in the 5-year CIP are illustrated in **Map No. 3-5**.

TABLE 3-7
SUMMARY OF WATER PROJECTS RECOMMENDED
FOR 5-YEAR CIP-YEAR 2027
(Priority List)

PROJECT NUMBER	PROJECT TITLE	2022-2027 IMPROVEMENTS PROJECT DESCRIPTION	CAPITAL COST (\$)
Raw Water Supply			
CIP5-WS-101	Raw Water Rights Purchase from HCID#2	Project involves the purchase of 500 acre-feet of additional municipal water rights to meet projected annual raw water demand through the year 2022.	\$1,500,000
Water Distribution System Projects			
CIP5-WS-200	Existing Waterline Replacement due to current condition	Replace existing 3,500 LF of 6" Asbestos Cement waterline located on South Alamo Road, from Business Highway 83 to Ortega Circle; and install new 8" waterline on Business Highway, from 12 th Street to Alamo Road.	\$450,000
CIP5-WS-201	Existing Waterline Replacement due to current condition	Replace existing 2,700 LF of 6" Asbestos Cement waterline located in existing alley, south of Bowie Avenue, starting at South 13 th Street and ending on South 9 th Street.	\$350,000
CIP5-WS-202	Existing Waterline Replacement due to current condition	Replace existing 3,900 LF of 6" Asbestos Cement waterline located in existing alley, south of Ellis Avenue, starting at South Alamo Road and ending on Tower Road.	\$490,000

PROJECT NUMBER	PROJECT TITLE	2022-2027 IMPROVEMENTS PROJECT DESCRIPTION	CAPITAL COST (\$)
CIP5-WS-203	Existing Waterline Replacement due to current condition	Replace existing 5,000 LF of 8" Water Transfer Line at the intersection of South 8 th Street (location of old abandoned water treatment plant) and ending on Tower Road, at location of the existing water ground storage tank and elevated storage tank.	\$850,000
CIP5-WS-204	Existing Waterline Replacement due to pressure requirement	Replace existing 3,100 LF of 2" waterline with new 8" waterline located on Ridge Road, starting at South Tower Road and ending on Pelican Street; to relieve low water pressures.	\$500,000
CIP5-WS-205	Existing Waterline Replacement due to pressure requirement	Install 3,800 LF new 10" waterline to be located along Ridge Road and Tower Road, from South 7 th Street to Las Fuentes Drive, to relieve low water pressures.	\$800,000
CIP5-WS-206	Existing Waterline Replacement due to pressure requirement	Install 5,200 LF new 10" waterline to be located along Alamo Road, from Ridge Road to El Gato Road, to relieve low pressure in south part of the City.	\$1,200,000
CIP5-WS-207	Existing Waterline Replacement	Replace existing 1,900 LF of 1" and 2" waterline with new 8" waterline located on T.C. Downs Street and on North 7 ½ Street, starting at Expressway and ending on Duranta Avenue.	\$250,000
CIP5-WS-208	Existing Waterline Replacement	Replace existing 1,900 LF of 4" waterline with new 8" waterline located on Alley, south of Hackberry, starting east of Alamo Road and ending at the Hackberry and North 8 th Street intersection.	\$350,000

Treated Water Storage and Pumping Projects

Additional high service pumping capacity is included in the water treatment plant expansion described in Project No. CIP5-WS-401 below.

No additional water storage identified to be required.

PROJECT NUMBER	PROJECT TITLE	2022-2027 IMPROVEMENTS PROJECT DESCRIPTION	CAPITAL COST (\$)
Water Treatment Projects			
CIP5-WS-400	<p><u>Phase One</u> Rehabilitation of Existing Water Treatment Plant Facility</p>	<p>Project consists of rehabilitating the existing plant facilities and structures which have deteriorated over the past year. Also, project includes for placement of permanent or temporary treatment facilities to allow for normal uninterrupted water treatment operations during the rehabilitation of the existing treatment metal structures.</p>	\$ 3,000,000
CIP15-WS-401	<p><u>Phase Two</u> Expansion of Existing Water Treatment Plant Facility.</p> <p>Note: Expansion of the plant needs to be completed and in operation by year 2032.</p> <p>Financial Planning and Engineering Design should commence by Year 2028</p>	<p>Project consists of increasing water treatment plant capacity of 5.0 mgd to 7.50 mgd. Additionally, the project replaces electrical systems and controls, increases service pumping capacities, replaces existing disinfection systems, constructs additional sludge holding basins and etc.</p>	\$ 6,500,000

Note: (1) All costs are presented in 2022 dollars. Costs for projects performed later than year 2022 should be escalated accordingly.

**3.13 15-YEAR PLAN FOR WATER SYSTEM IMPROVEMENTS- YEAR 2032
FIRST 5-YEAR PERIOD**

Table 3-8 summarizes 15-year CIP, **Year 2032 (first five-year period)**, projects (Between Year 2027-2032) which are recommended for the City’s water system. Projects are identified in this Section 2 of the report.

These projects are recommended to be implemented and completed prior to the year 2032.

Projects in the 15-year CIP, Year 2032 (**first five-year period**), are illustrated in **Map No. 3-6**.

**TABLE 3-8
SUMMARY OF WATER PROJECTS RECOMMENDED FOR 15-YEAR CIP
FIRST FIVE YEAR PERIOD
(Priority List)**

PROJECT NUMBER	PROJECT TITLE	2027-2032 IMPROVEMENTS PROJECT DESCRIPTION	CAPITAL COST (\$)
Raw Water Supply			
CIP15(1 st)-WS-101	Raw Water Rights Purchase from HCID#2	Project involves the purchase of 500 acre-foot of municipal water rights to meet projected annual raw water demand through the year 2027.	\$1,500,000
Water Distribution System Projects			
CIP15(1 st)-WS-200	Existing Waterline Replacement due to pressure requirement	Replace existing 2" with 1,600 LF of new 8" water along east side of City Limits Line, from the Expressway frontage to Nebraska Road, to alleviate low water pressures on the northeastern part of the City.	\$200,000
CIP15(1 st)-WS-201	Existing Waterline Replacement	Replace existing 1,300 LF of 2" waterlines located in alley, south of Desoto Avenue, with new 8" waterline, starting on Alamo Road and ending on South 9 th Street.	\$160,000

PROJECT NUMBER	PROJECT TITLE	2027-2032 IMPROVEMENTS PROJECT DESCRIPTION	CAPITAL COST (\$)
CIP15(1 st)-WS-202	Existing Waterline Replacement	Replace existing 1,300 LF of 2" and 4" waterlines located on Crockett Avenue with new 8" waterline starting on Alamo Road and ending on South 9 th Street.	\$160,000
CIP15(1 st)-WS-203	Existing Waterline Replacement	Replace existing 1,300 LF of 2" and 3" waterlines located in alley, south of Crockett Avenue, with new 8" waterline, starting on South 7 th Street and ending on Tower Road.	\$160,000
CIP15(1 st)-WS-204	Existing Waterline Replacement	Replace existing 1,600 LF of 2", 3", and 4" waterlines located in alley, south of Bowie Avenue, with new 8" waterline, starting on South 6 th Street and ending on 4 th Street, extended.	\$200,000
CIP15(1 st)-WS-205	Existing Waterline Replacement	Replace existing 3,100 LF of 2", 3", and 4" waterlines located in alley, south of East Austin Avenue, with new 8" waterline, starting on South 8 th Street and ending on 4 th Street, extended.	\$400,000
CIP15(1 st)-WS-206	Existing Waterline Replacement	Replace existing 1,300 LF of 4" waterlines located in alley, south of Duranta Avenue, with new 8" waterline, starting on North 13 th Street and ending on Alamo Road.	\$160,000
CIP15(1 st)-WS-207	Existing Waterline Replacement	Replace existing 1,300 LF of 2" and 3" waterlines located in alley, south of Citrus Avenue, with new 8" waterline, starting on South 13 th Street and ending on Alamo Road.	\$160,000
CIP15(1 st)-WS-208	Existing Waterline Replacement	Replace existing 600 LF of 4" waterlines located in alley, south of Duranta Avenue, with new 8" waterline, starting on Alamo Road and ending on 10 th Street.	\$75,000
CIP15(1 st)-WS-209	Existing Waterline Replacement	Replace existing 600 LF of 2" waterlines located in alley, south of Citrus Avenue, with new 8" waterline, starting on Alamo Road and ending on 10 th Street.	\$75,000

PROJECT NUMBER	PROJECT TITLE	2027-2032 IMPROVEMENTS PROJECT DESCRIPTION	CAPITAL COST (\$)
Treated Water Storage and Pumping Projects			
No Projects Identified			
Water Treatment Projects			
No Projects Identified			

Note: (1) All costs are presented in 2022 dollars. Costs for projects performed increasingly later than 2022 should be escalated accordingly.

3.14 15-YEAR PLAN FOR WATER SYSTEM IMPROVEMENTS – 2037

Table 3-9 summarizes 15-year CIP, **second five-year period**, projects (Between Year 2032-2037) which are recommended for the City's water system. Projects are identified in this Section 2 of the report.

These projects are recommended to be implemented and completed prior to the year 2037.

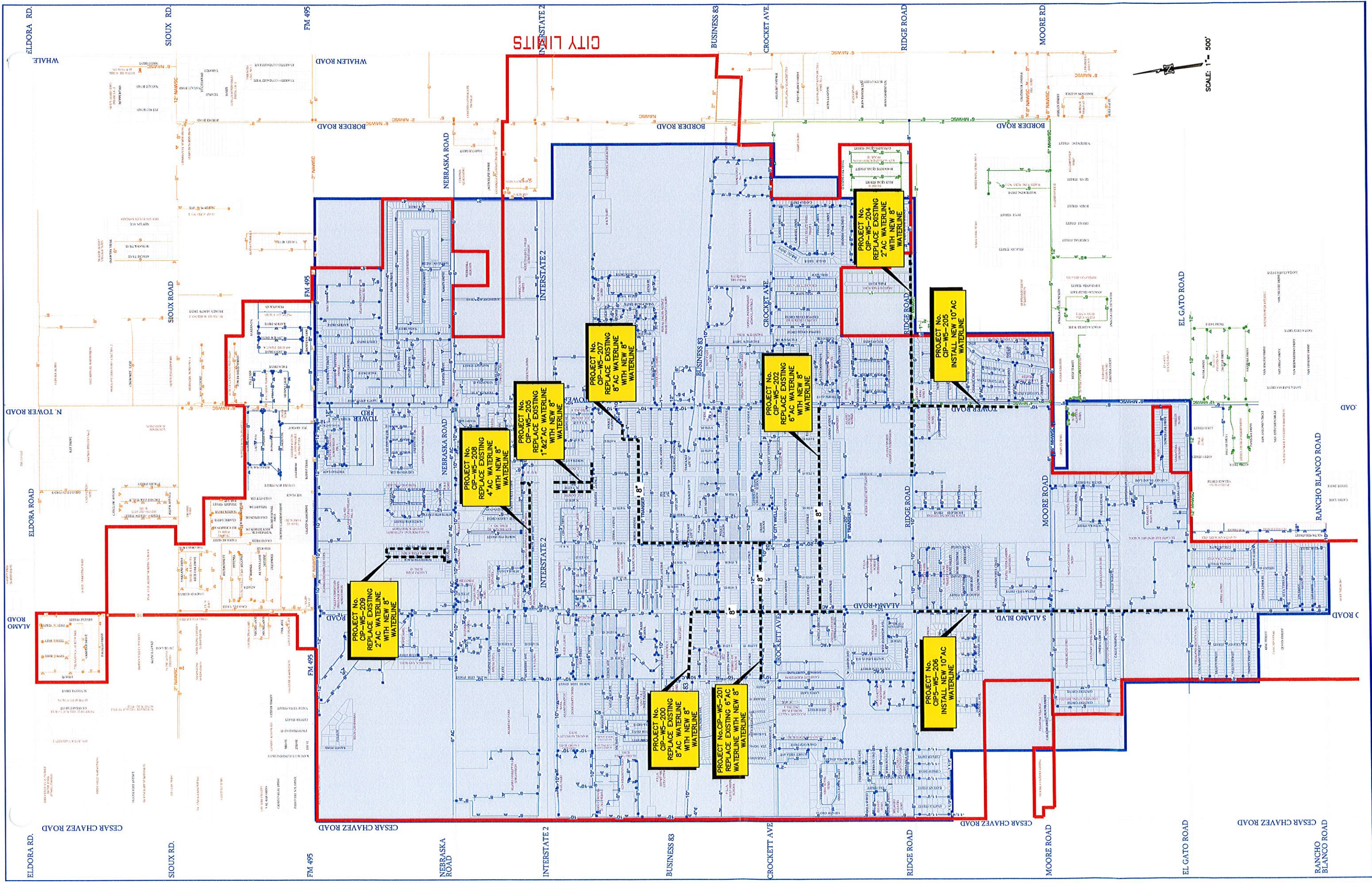
Projects in the 15-year CIP, **second five-year period**, are illustrated in **Map No. 3-7**.

TABLE 3-9
SUMMARY OF WATER PROJECTS RECOMMENDED FOR 15-YEAR CIP
SECOND FIVE YEAR PERIOD
(Priority List)

PROJECT NUMBER	PROJECT TITLE	2032-2037 IMPROVEMENTS PROJECT DESCRIPTION	CAPITAL COST (\$)
Raw Water Supply			
CIP15(2 nd)-WS-101	Raw Water Rights Purchase from HCID#2	Project involves the purchase of 500 acre-feet of municipal water rights to meet projected annual raw water demand through the year 2027.	\$1,500,000
Water Distribution System Projects			
CIP15(2 nd)-WS-200	New Waterline to provide for additional water pressures and flows	Install 7,000 LF of new 12" waterline along Cesar Chavez Road and FM 495, starting on the south frontage road of Interstate Expressway 2 and Cesar Chavez Road and ending at Valle Vista Street. This waterline will provide looping required for future water and fire flow demands for the northeastern part of the City's water service area.	\$1,800,000
CIP15(2 nd)-WS-201	New Waterline Replacement	Install 3,700 LF of new 8" waterline along the north Interstate Expressway 2 frontage Road, starting on Alamo Road and ending on Tower Road. This waterline will provide for looping of existing waterlines, and will provide a new waterline for the installation of fire hydrants in the area.	\$500,000

PROJECT NUMBER	PROJECT TITLE	2032-2037 IMPROVEMENTS PROJECT DESCRIPTION	CAPITAL COST (\$)
CIP15(2 nd)-WS-202	New Waterline	Install 3,800 LF of new 8" waterline along the south Interstate Expressway 2 frontage Road, starting at Alamo Road and ending on Tower Road. This waterline will provide for looping of existing waterlines, and will provide a new waterline for the installation of fire hydrants in the area.	\$600,000
Treated Water Storage and Pumping Projects			
No Projects Identified			
Water Treatment Projects			
No Projects Identified			

Note: (1) All costs are presented in 2022 dollars. Costs for projects performed increasingly later than 2022 should be escalated accordingly.



SCALE: 1" = 500'

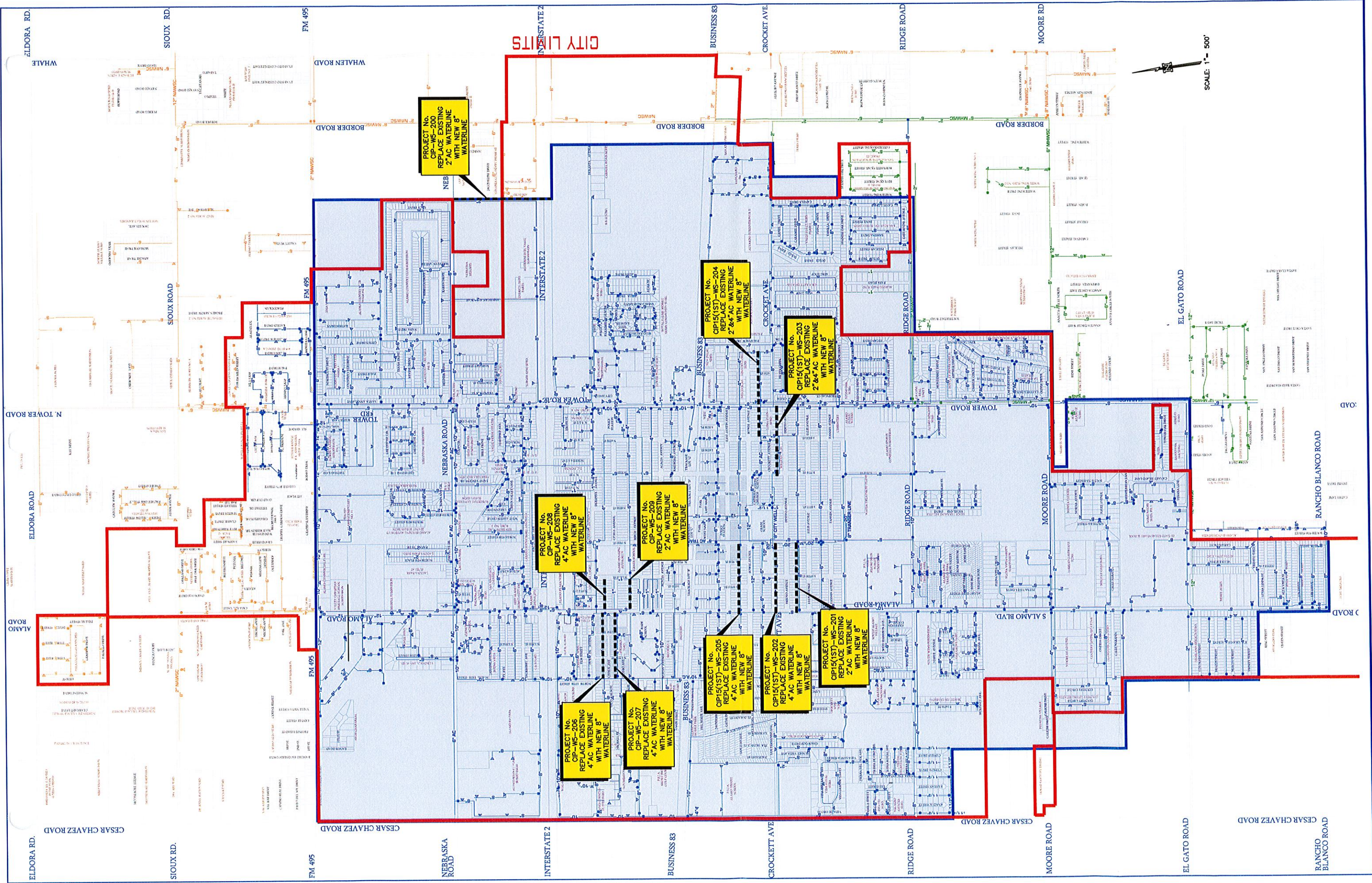
LEGEND
 CITY OF ALAMO
 CITY LIMITS
 CITY OF ALAMO
 WATER SERVICE AREA

CITY OF ALAMO
WATER AND WASTEWATER MASTER PLAN
YEAR 2027 WATERLINE IMPROVEMENTS



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MAP No.
3-5

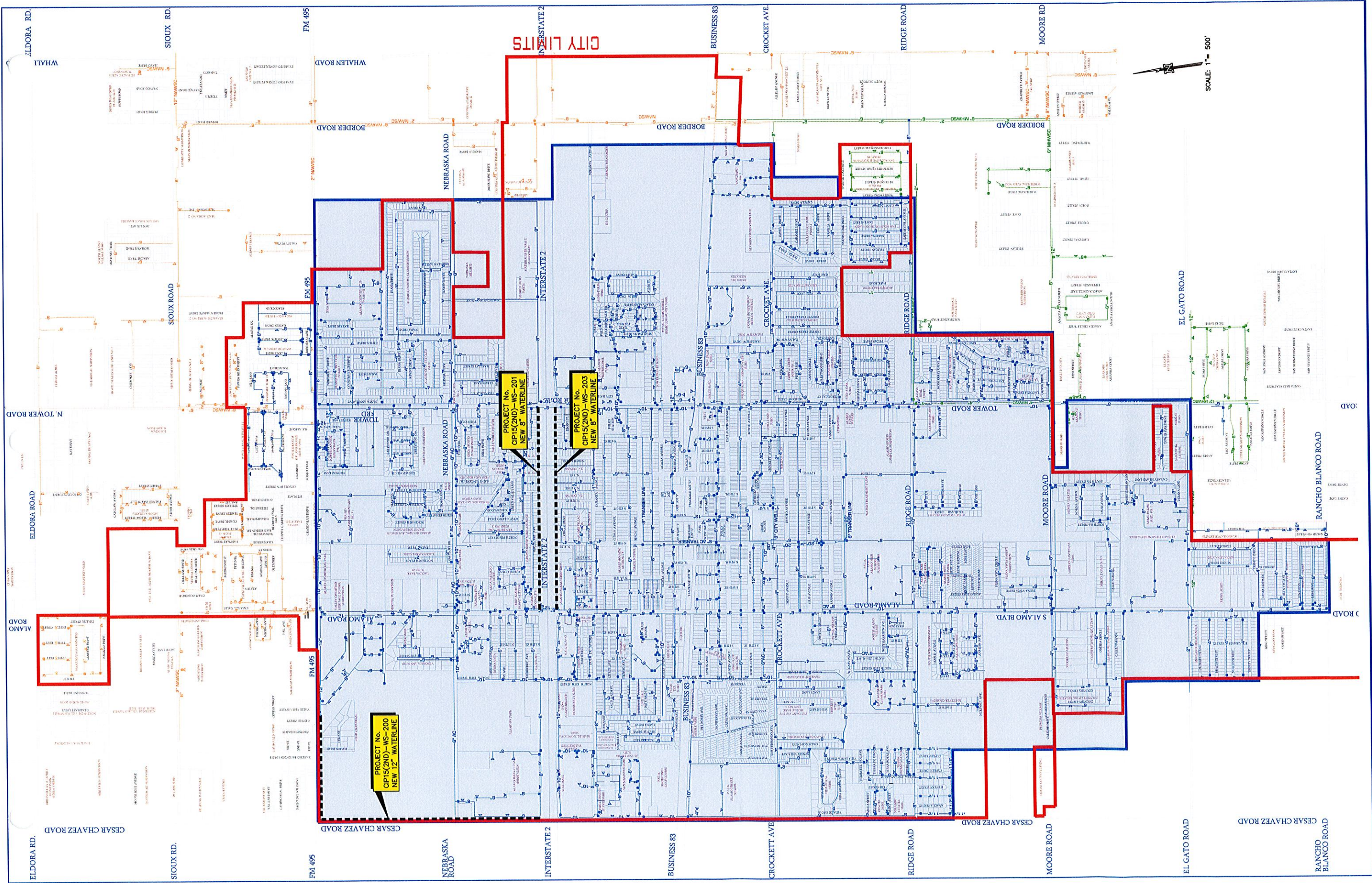


LEGEND
 CITY OF ALAMO
 CITY LIMITS
 CITY OF ALAMO
 WATER SERVICE AREA

CITY OF ALAMO
WATER AND WASTEWATER MASTER PLAN
YEAR 2032 WATERLINE IMPROVEMENTS



MAP No.
3-6



SCALE: 1" = 500'

- LEGEND**
- CITY OF ALAMO
 - CITY LIMITS
 - CITY OF ALAMO
 - WATER SERVICE AREA

CITY OF ALAMO
WATER AND WASTEWATER MASTER PLAN
YEAR 2037 WATERLINE IMPROVEMENTS

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MAP No.
3-7

ANALYSIS OF 2022 ALAMO WASTEWATER SYSTEM

SECTION 4

4.1 INTRODUCTION

This section provides an overview of the City of Alamo's existing wastewater collection and wastewater treatment facilities.

Existing wastewater system deficiencies were identified by the City's utility staff and these deficiencies are described herein. The documented deficiencies are described within this report and options or alternatives for resolution are provided.

The recommended projects for correcting existing system deficiencies and projects needed to meet future wastewater system demands for the existing year 2022, and planning years 2027 and 2032, have been developed and presented in Section 5 of the report.

4.2 DESCRIPTION OF 2022 SEWER CCN SERVICE AREA

The City's 2022 Sewer Certificate of Convenience and Necessity (CCN) sewer service area is shown in **Map No. 4-1**.

The City provides sewer service to most of the City's CCN, and the CCN boundary lines generally follow the City's corporate city limit lines except in two small areas located in the northern and eastern parts of the City.

The North Alamo Water Supply Corporation (NAWSC) provides sewer service to areas located north of the City's corporate city limits, which conveys directly into the City's wastewater collection system through their own lift station and sewer force main lines. Additionally, the Military Highway Water Supply Corporation (MHWSC) provides sewer services to residential home areas located on the southeastern side of the City. Their gravity main sewer lines connect directly into the City's collection system.

EARLING RC

CE SAR CHAVEZ ROAD

EL DORA ROAD

SI OUX ROAD

F.M. 495

NEBRASKA ROAD

EXPRESSWAY 83

BUSINESS 83

CROCKETT AVE

RIDGE ROAD

MOORE ROAD

CE SAR CHAVEZ ROAD

EL GATO ROAD

CITY LIMITS

CITY LIMITS

SEWER CCN

CITY LIMITS

CITY LIMITS

SEWER CCN

CITY LIMITS

SEWER CCN

SEWER CCN

CITY LIMITS

BORDER ROAD

SEWER CCN

CITY LIMITS

RANCHO BLANCO ROAD

CITY LIMITS

TOWER ROAD

CITY LIMITS

BORDER ROAD

CITY LIMITS



GRAPHIC SCALE

LEGEND



CITY OF ALAMO
SEWER SERVICE
AREA (CCN)



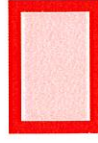
MILITARY HIGHWAY WSC
SEWER SERVICE AREA
(CCN)



CITY OF SAN JUAN
SEWER SERVICE
AREA (CCN)



CITY OF DONNA
SEWER SERVICE
AREA (CCN)



NORTH ALAMO WSC
SEWER SERVICE AREA
(CCN)



DUALLY CERTIFIED WITH
MILITARY HIGHWAY WSC
CITY OF ALAMO SERVICE
AREA (CCN)

LEGEND

EXISTING DRAIN DITCH

CITY LIMITS

CITY OF ALAMO

WASTEWATER MASTER PLAN

EXISTING CCN AND CITY LIMIT MAP



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ENGINEERS | PLANNERS

McAllen | Harlingen | Weslaco

MAP No.

4-1

4.3 HISTORICAL ESTIMATED NUMBER OF SEWER CONNECTIONS

As shown in the 2022 Existing Land Use Map, the City of Alamo can be characterized as predominantly single family residential, with a small percentage of multi-family housing units and commercial development. Therefore, this report uses City billing records to directly estimate the number of wastewater service connections.

4.3.1 City of Alamo Sewer Connections

Table 4-1 below summarizes the actual number of historical wastewater service connections within the City of Alamo Sewer CCN Service Area for years 2019 through 2022. In year 2022, the combined residential and commercial active service connections were estimated to be approximately 5,448 connections.

**TABLE 4-1
NUMBER OF CITY SEWER CONNECTIONS LOCATED IN ALAMO
SEWER CCN SERVICE AREA**

Month	2019	2020	2021	2022
January	4,909	5,122	5,282	5,382
February	4,938	5,152	5,300	5,416
March	4,951	5,160	5,321	5,423
April	4,945	5,162	5,337	5,419
May	4,858	5,075	5,193	5,357
June	4,759	5,012	5,127	5,281
July	4,752	5,015	5,108	5,247
August	4,788	5,014	5,133	5,263
September	4,801	5,041	5,156	5,289
October	4,893	5,099	5,207	5,337
November	4,976	5,187	5,263	5,422
December	5,033	5,254	5,356	5,448

4.3.2 North Alamo WSC and Military Highway WSC Connections

Currently, the North Alamo WSC (NAWSC) has approximately 334 residential connections which flow directly into the City's wastewater collection system. Additionally, NAWSC owns and operates a lift station located on the northern part of town which also pumps directly in to the City's wastewater collection system. From the lift station metered flows, it is estimated that the meter flows would equate to approximately 30 additional sewer connections. Also, Military Highway WSC has approximately 100 sewer connections, located mostly on the southern part of the City which flow directly into the City's wastewater collection system.

4.3.3 Total Combined Existing City of Alamo, North Alamo WSC and Military Highway WSC Sewer Connections

Table 4-2 below summarizes the actual number of the **Total System** active wastewater service connections that are currently being served by the City of Alamo, but are located within the North Alamo WSC and the Military Highway WSC Sewer CCN Service Areas. Even though these connections do not belong to the City, by agreement, both the North Alamo WSC and the Military Highway WSC are allowed to connect directly to the City's wastewater collection system for treatment at the City's wastewater treatment plant facility. The total combined wastewater connections as of 2022 for all three entities are approximately 5,550.

TABLE 4-2
COMBINED NUMBER OF CITY OF ALAMO, NORTH ALAMO WSC and
MILITARY HIGHWAY WSC SEWER CONNECTIONS

Month	2019	2020	2021	2022
January	4,909	5,122	5,282	5,482*
February	4,938	5,152	5,300	5,516*
March	4,951	5,160	5,321	5,523*
April	4,945	5,162	5,337	5,519*
May	4,858	5,075	5,193	5,457*
June	4,759	5,012	5,127	5,381*
July	4,752	5,015	5,108	5,347*
August	4,788	5,014	5,133	5,363*
September	4,801	5,041	5,156	5,389*
October	4,893	5,099	5,207	5,437*
November	4,976	5,187	5,263	5,522*
December	5,033	5,254	5,356	5,548*

Note: Connections from NAWSC and MHWSC are only reflected in the year 2022 count

4.4 EXISTING WASTEWATER TREATMENT FACILITIES

4.4.1 Existing Wastewater Treatment Plant

The City provides wastewater treatment from a wastewater treatment plant located on the southern side of the City, located approximately 14,000 feet south of the intersection of South Tower Road and U.S. 83 Business Highway; or approximately 17,000 feet south of the intersection of South Tower Road and Interstate Highway 5 (IH5). The location of the plant is shown in **Map No. 4-2**.

The existing wastewater treatment plant is a pond-type treatment system plant rated to treat 2.0 MGD. The current plant treatment unit is comprised of a bar screen, three facultative lagoons, five settling lagoons, and a chlorine contact chamber with de-chlorination. The permitted discharge flow capacity off the existing plant, with an average annual daily flow, should not exceed 2.0 MGD.

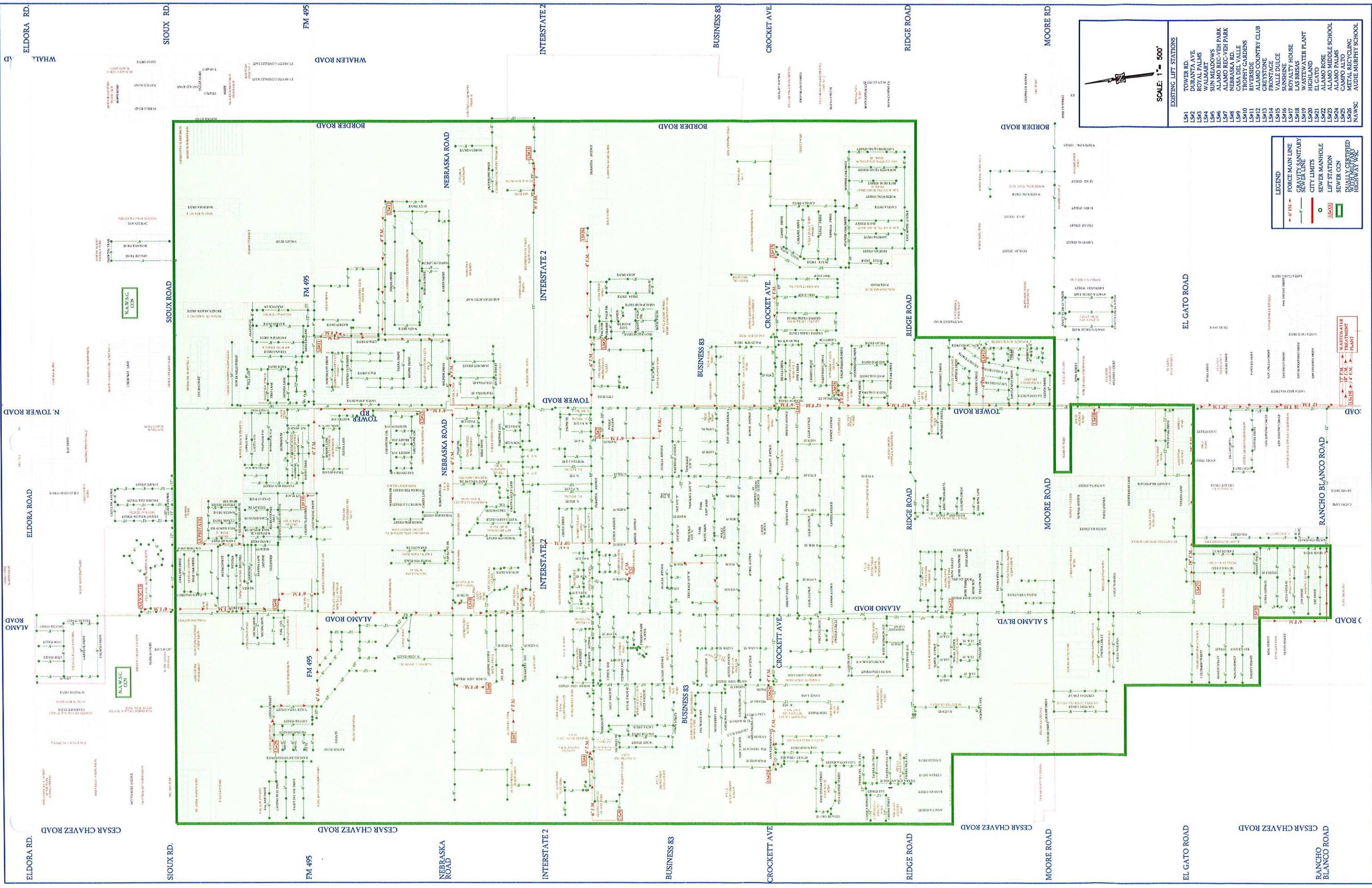
The chlorination system process utilizes chlorine gas to disinfect the treated wastewater effluent.

4.4.2 New Wastewater Treatment Plant

As a result of the City receiving multiple TCEQ violations due to insufficient wastewater discharge effluent quality and odor issues, the City received construction funding from the Texas Water Development Board in 2019 for construction of a new wastewater treatment facility. The existing plant would be abandoned once the new plant is activated.

The new wastewater treatment plant is still currently under construction with the construction completion and start up schedule for the early months in year 2023.

The new plant facility includes wastewater screening and grit removal equipment, a flow equalization basin, four SBR basins, two sludge holding tanks, sludge centrifuge press for dewatering sludge, two chlorine contact chambers, and a de-chlorination chamber. The plant discharge location will remain the same, i.e., into the same ditch which then flows and discharges into the IBWC Main Floodway.



SCALE: 1" = 500'

EXISTING LIFT STATIONS

LS#1	TOWER RD.
LS#2	DURANTA AVE
LS#3	ROYAL PALMS
LS#4	SUNFLOWERS
LS#5	ALAMO REC-VEH PARK
LS#6	NEBRASKA RD.
LS#7	CASA DEL VALLE
LS#8	ROBERT GARDENS
LS#9	ALAMO COUNTRY CLUB
LS#10	GREYSTONE
LS#11	FRONTAGE
LS#12	VALLE DULCE
LS#13	SUNSHINE HOUSE
LS#14	LAS BRISAS
LS#15	WASTEWATER PLANT
LS#16	HIGHLAND
LS#17	EL GATO
LS#18	ALAMO ROSE
LS#19	ALAMO PALMS
LS#20	CAMPO ALTO
LS#21	METAL RECYCLING
LS#22	AUDIE MURPHY SCHOOL
LS#23	NAWSC

LEGEND

- 6" F.M. (Red line with arrow)
- FORCE MAIN LINE (Red line)
- CITY LIMITS (Green outline)
- CITY OF ALAMO (Red outline)
- SEWER MANHOLE (Green circle)
- LIFT STATION (Green circle with number)
- SEWER CCN (Green line)
- EXISTING SANITARY SEWER LINE (Green line)
- EXISTING HIGHWAY (Black line)

MAP No. **4-2**

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McAllen Harlingen Weslaco

CITY OF ALAMO
WATER AND WASTEWATER MASTER PLAN
2022 WASTEWATER COLLECTION SYSTEM

LEGEND

- CITY OF ALAMO (Red outline)
- CITY LIMITS (Green outline)
- CITY OF ALAMO (Red outline)
- SEWER SERVICE AREA (Red outline)

4.5 EXISTING WASTEWATER TREATMENT DISCHARGE

4.5.1 Description of Wastewater Discharge Permit

The City made a permit discharge renewal application to TCEQ for a wastewater discharge permit for both their existing and new wastewater treatment plant currently under construction. The new wastewater treatment plant is currently scheduled for completion and start-up operations scheduled in the early months of year 2023.

The current TCEQ wastewater discharge permit was issued on November 21, 2019, which would allow the existing pond wastewater discharge plant to continue operations until such time that the new wastewater treatment plant would be completed and start treatment operations. The current wastewater discharge permit expires 5 years after issuance; therefore, the current permit will expire on November 21, 2024.

The discharge permit included two interim phases and one final phase.

Interim Phase I would allow the existing wastewater treatment to operate until such time that the subsequent plant permitted phases are constructed and put into operation.

Interim Phase II would allow for new plant construction with stricter discharge requirements with an annual average flow of effluent not exceeding 2.0 MGD.

The Final Phase would allow the same new plant construction as Interim Phase II, but with higher 2.5 MGD effluent discharge limits.

The new wastewater treatment plant has been designed to treat 2.5 MGD with a peak flow of 10.0 MGD. The final phase of the plant's discharge permit would apply at the time when the new wastewater treatment plant goes into operation.

The existing wastewater treatment plant's effluent is being discharged through the primary outfall at the permitted TCEQ designated "Outfall No. 1". The treated plant effluent will discharge into an unnamed drainage ditch which flows into the International Boundary and Water Commission's (IBWC) North Levee Floodway; then into the Arroyo Colorado above Tidal Segment No. 2202 of the Nueces-Rio Grande Coastal Basin.

4.5.2 Current Permit Information and Discharge Parameters

Permit Number: WQ00113633001
 Permit Issuance: November 21, 2019
 Permit Expiration: November 21, 2024

TCEQ discharge permit limits and parameters are shown and summarized on the following **Table 4-3** and **Table 4-4**.

TABLE 4-3
TCEQ TPDES PERMIT PARAMETERS AND DISCHARGE LIMITS

Interim Phase I- Existing plant

PERMIT PARAMETER AND LIMITS	30 Day Average	7 Day Average	Daily Maximum
Annual Average Daily Flow not to exceed 2.0 MGD			
BOD ₅	30 mg/L 500 lbs/day	45 mg/l	70 mg/l
TSS	90 mg/L 500 lbs/day	135 mg/l	N/A
Total Aluminum	Report	N/A	Report
Dissolved Oxygen (min)	4.0	N/A	N/A
E. Coli Bacteria Colonies per 100 ml	126 mg/L	N/A	N/A
pH	6.0 su (Min.) 9.0 su (Max.)		
Chlorine Residual (Maximum) (After De-chlorination)	0.10 mg/L		
Total Residence Time shall be at least 21 days per TCEQ Permit Requirement			

TABLE 4-4
Final Phase – New 3.0 MGD Wastewater Treatment Plant

PERMIT PARAMETER AND LIMITS	30 Day Average	7 Day Average	Daily Maximum
Annual Average Daily Flow not to exceed 2.5 MGD			
CBOD ₅	10 mg/L 209 lb/day	15 mg/l	25 mg/l
TSS	15 mg/l 313 lb/day	25 mg/l	40 mg/l
NH ₃ -N	3 mg/l 63 lb/day	6 mg/l	10 mg/l
Total Aluminum	Report	N/A	N/A
Dissolved Oxygen (Min)	4.0 mg/l	N/A	N/A
E. Coli Bacteria Colonies per 100 ml	126 mg/l	N/A	399 mg/l
pH	6.0 su (Min.) 9.0 su (Max.)		
Chlorine Residual (Minimum) (Process complete)	1.0 mg/L		
Chlorine Residual (Maximum) (After Detention of at least 20 mins)	1.0 mg/L		

4.5.3 Wastewater Treatment Plant Effluent Flows

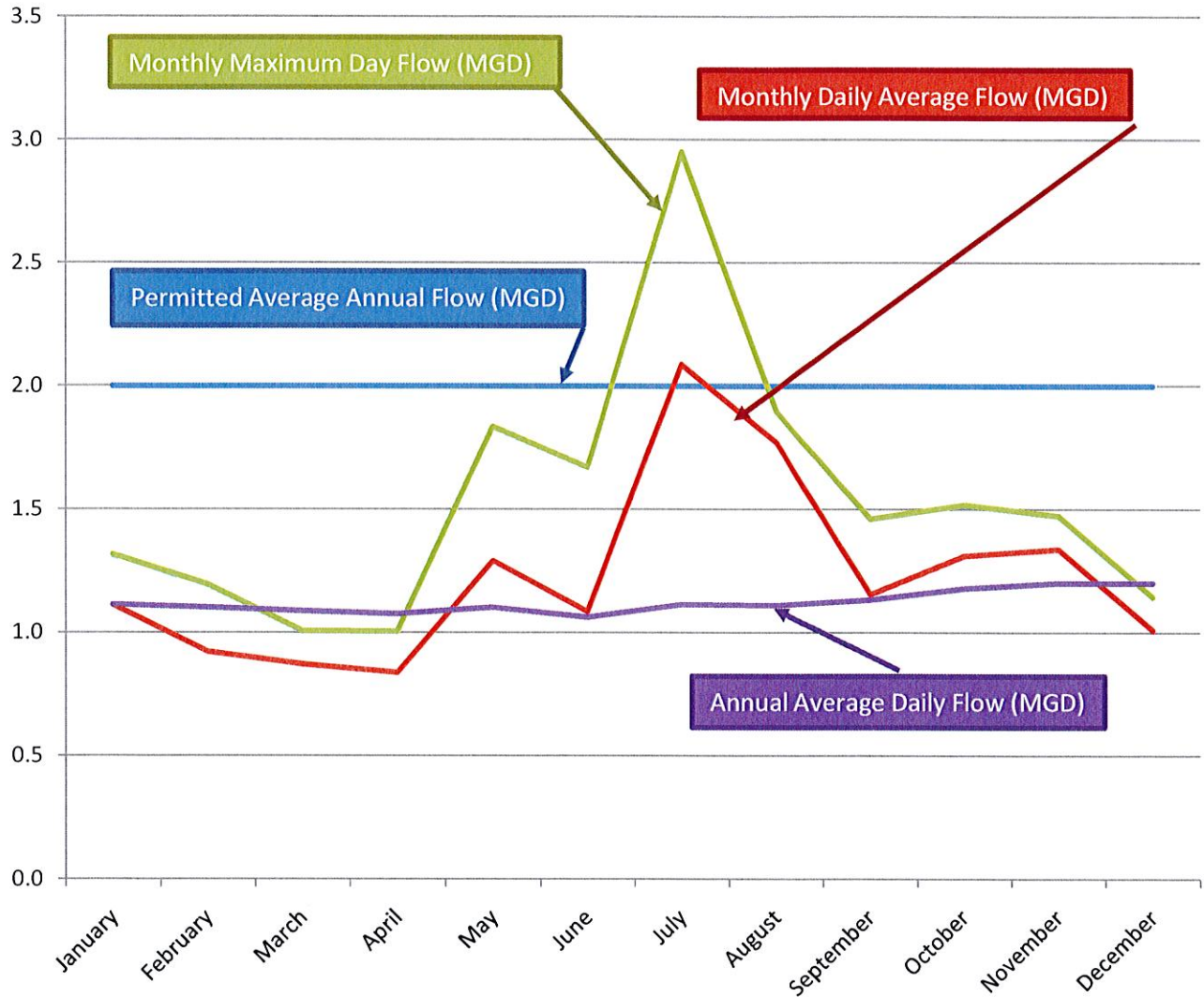
The City's monthly wastewater treatment plant effluent flows from 2021 records are summarized in **Table 4-3** and shown graphically in **Figure 4-1**. The highest annual average daily flow in November 2021 was 1.20 MGD, which is approximately sixty percent (60%) of the plant's permitted treatment capacity. The maximum monthly daily average discharge flow for 2021 was 2.08 MGD, which occurred in July 2021. The maximum one-day flow was recorded to be 2.95 MGD flow, which occurred in July 2021. This maximum one-day flow was probably attributed to a high rainfall event. The excessive water from a rainfall event can produce a high amount of inflow water which enters into the existing wastewater collection system. The minimum monthly average daily flow was 0.837 MGD which occurred in April 2021.

The 2022 estimated sewer wastewater service connections being served with wastewater collection and treatment facilities are approximately 5,800 metered connections and approximately 8,900 actual connections. The actual connections include mobile home parks. Based on the connections served and the 1.23 MGD daily average flow, the per capita wastewater generation for the City of Alamo is estimated at 138 gallons per connection per day average; and 212 gallons per connection per day for a maximum day historical flow.

**TABLE 4-5
2021 WASTEWATER TREATMENT PLANT DISCHARGE FLOWS**

Month	Monthly Daily Average Flow (MGD)	Monthly Maximum Day Flow (MGD)	Annual Average Daily Flow (MGD)
January	1.111	1.315	1.113
February	0.922	1.194	1.101
March	0.871	1.006	1.086
April	0.837	1.003	1.074
May	1.290	1.834	1.101
June	1.084	1.669	1.061
July	2.087	2.951	1.113
August	1.770	1.894	1.109
September	1.154	1.459	1.132
October	1.311	1.516	1.178
November	1.337	1.471	1.200
December	1.009	1.142	1.200
Average Daily Flow	1.23 MGD		

2021 WASTEWATER TREATMENT PLANT DISCHARGE FLOWS



**WATER AND WASTEWATER
MASTER PLAN
CITY OF ALAMO, TEXAS**

**2021 WASTEWATER
TREATMENT
EFFLUENT FLOWS**

**FIGURE
4-1**

4.6 EXISTING WASTEWATER COLLECTION SYSTEM

4.6.1 Overview of System Configuration

The approximate layout of the City's wastewater existing collection system, including sanitary sewer lines, lift stations, force mains, and the wastewater treatment plant is shown on **Map No. 4-2**.

The wastewater system infrastructure shown is as of year 2022, and it is based on the City's wastewater system maps, record drawings, report information, and input from City staff.

The current wastewater collection system is comprised of pipelines (both gravity and pressure main), manholes, lift and pump stations, and residential and commercial service connections. The layout of the collection system is mostly a gravity system with flows generally flowing towards the direction of the City's existing wastewater treatment plant. The sizes of the gravity pipeline network range from 6 inches to 24 inches in diameter. The gravity pipelines are constructed of either plastic lines (PVC) or vitrified clay pipe (VCP). Lift station force/pressure mains are constructed mostly of PVC material and vary in size from 4 inches to 12 inches in diameter.

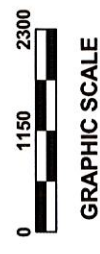
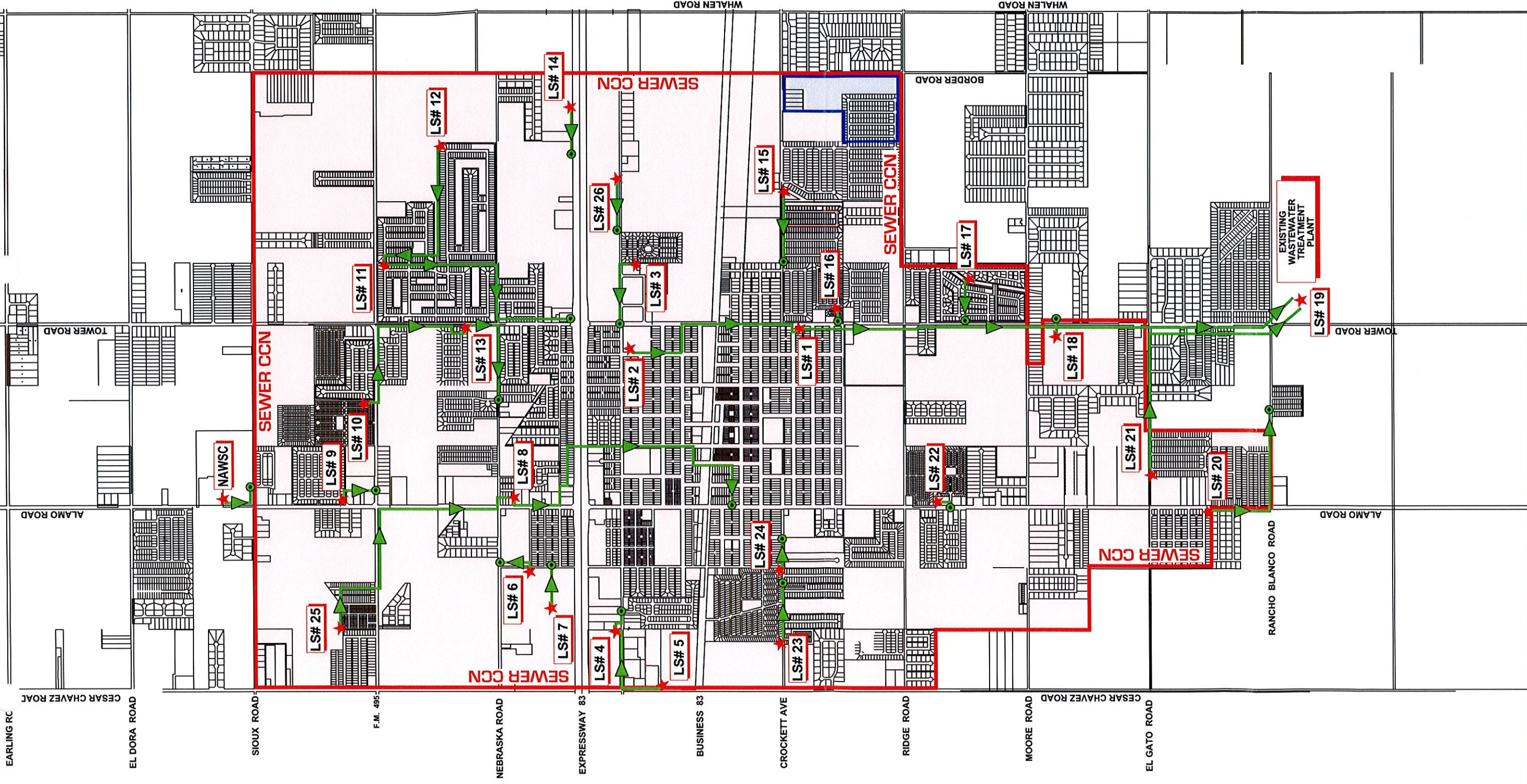
The City's wastewater collection system has approximately 500,000 linear feet of 6, 8, 10, 12, 15, 18, and 24-inch gravity sewer main lines and approximately 72,000 linear feet of 3, 4, 6, 8, 12, and 18-inch force main lines.

The City currently owns and maintains 26 lift stations that convey wastewater through a system of force mains and gravity sewers all directed towards the City's wastewater treatment plant.

There is, however, one lift station located on North Alamo Road (just north of Sioux Road and on the grounds of the PSJA ISD's Audie Murphy Middle School) that is not owned or maintained by the City. This lift station, owned by the North Alamo Water Supply Corporation (NAWSC), receives wastewater flows from both the adjacent residential areas and middle school. The wastewater flows are measured by the lift station meter. The wastewater flows are reported to the City for billing.

Additionally, there are two privately owned and maintained lift stations which directly discharge into the City's wastewater collection system. One is located at the Trophy Park Subdivision; and the other at the PSJA ISD's Franklin Elementary School located at the intersection of North Alamo Road and North 10th Street.

See attached **Map No. 4-3** which shows the location all the City's existing lift stations and schematic flow diagram of each lift station.



GRAPHIC SCALE

EXISTING LIFT STATIONS

- LS# 1 TOWER RD.
- LS# 2 DURANTA AVE.
- LS# 3 ROYAL PALMS
- LS# 4 WALMART
- LS# 5 SUN MEADOWS
- LS# 6 ALAMO REC-VEH PARK
- LS# 7 ALAMO REC-VEH PARK
- LS# 8 NEBRASKA RD.
- LS# 9 CASA DEL VALLE
- LS# 10 TROPHY GARDENS
- LS# 11 ALAMO COUNTRY CLUB
- LS# 12 ALAMO COUNTRY CLUB
- LS# 13 GREYSTONE
- LS# 14 FRONTAGE
- LS# 15 VALLE DULCE
- LS# 16 SUNSHINE
- LS# 17 ROYAL HOUSE
- LS# 18 BRISAS APTS.
- LS# 19 WASTEWATER PLANT
- LS# 20 HIGHLAND
- LS# 21 EL GATO
- LS# 22 ALAMO ROSE
- LS# 23 JR. HIGH
- LS# 24 ALAMO PALMS
- LS# 25 CAMPO ALTO
- LS# 26

- LEGEND**
- EXISTING DRAIN DITCH
 - EXISTING FORCE MAIN
 - EXISTING LIFT STATIONS

LS# 00

CITY OF ALAMO
WATER AND WASTEWATER MASTER PLAN
EXISTING LIFT STATION
SCHEMATIC FLOW DIAGRAM



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MAP No.
4-3

To facilitate analysis of the City's wastewater collection system, the entire lift station service area was subdivided into the three major collection sub-areas.

The lift station major collection sub-areas are comprised of several smaller lift station service areas all pumping or gravity flowing into one main large lift station. This larger main lift station pumps directly to the City's wastewater treatment plant.

Map No. 4-4 shows each existing lift station's overall service area and the number of service connections in each area. **Map No. 4-5** shows the sewer service area of the major lift stations.

A schematic flow diagram for each of the City's lift stations and pump flow directions is shown in **Figure 4-2**.

The major existing collection system sub-areas are:

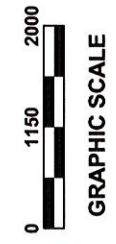
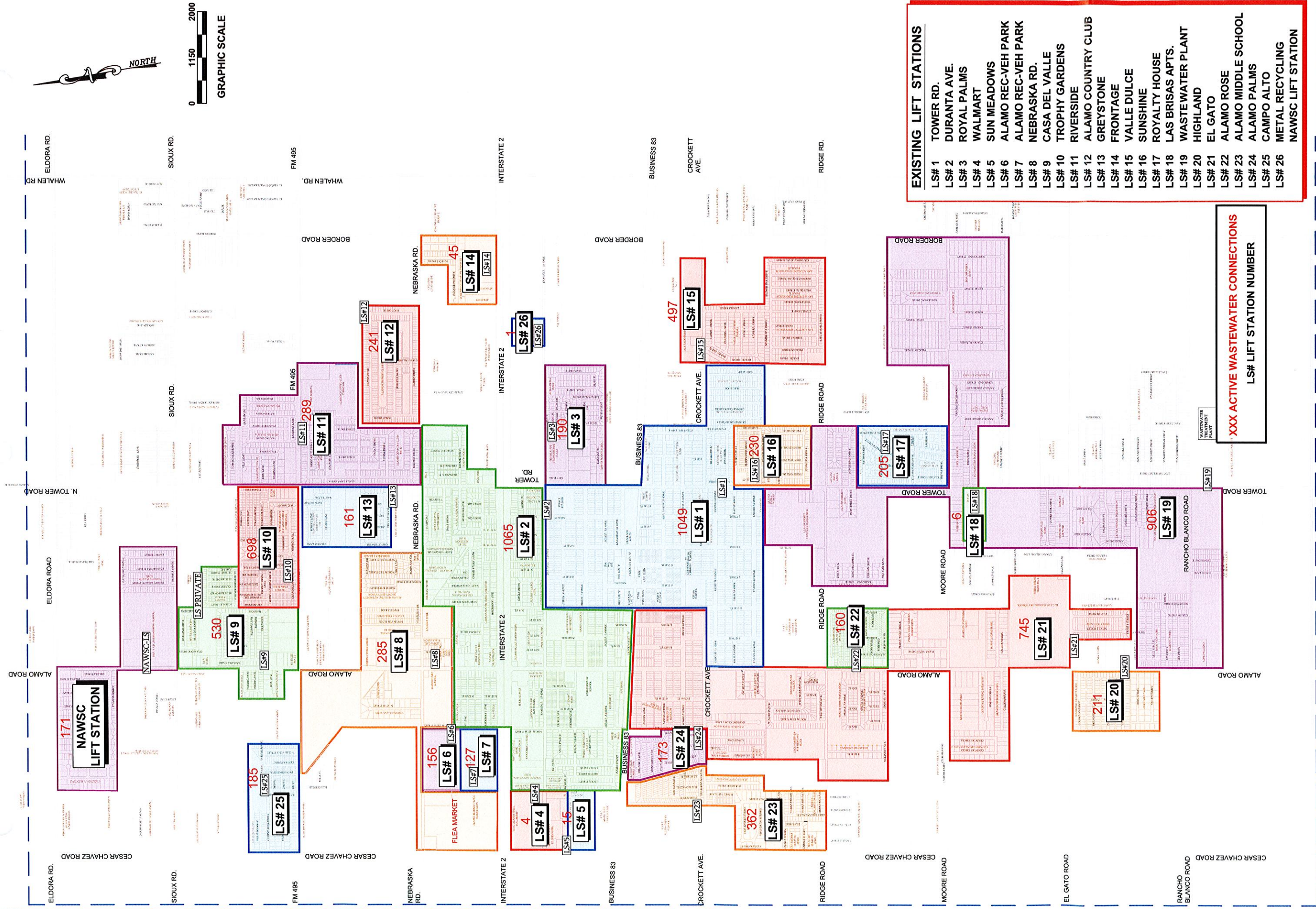
- North Collection System
- Central Collection System
- South Collection System

Each major collection system sub-area includes flows from the main lift stations, lift station sub-stations, and secondary lift stations. Wastewater average and peak flows for each lift station were calculated as a percentage of the total system flows.

The North System Collection Area includes 10 operating lift stations and includes a lift station owned and operated by the North Alamo Water Supply Corporation. Flows from the North Collection System are conveyed to and through the Central Collection System where the wastewater is directed to South Collection System's Lift Stations No. 21 and No.1. South Collection Lift Stations No. 21 and No. 1 wastewater flows then pumps wastewater flows directly to the Wastewater Treatment Plant's main Lift Station.

The Central Collection System area flows are collected in main Lift Station No. 2, which pumps directly to the South Collection System Lift Station No. 1, which then pumps directly to the Wastewater Treatment Plant's Lift Station No. 19. Lift Station No. 19 pumps directly into the wastewater treatment plant.

The South Collection System wastewater is collected in various smaller lift stations which either pump or flow via gravity directly to Wastewater Treatment Plant Lift Station No. 19. Main Lift Stations No. 1 and No. 21 pump directly into the City's wastewater treatment plant. Lift Station No. 21 also pumps directly into the wastewater treatment plant.

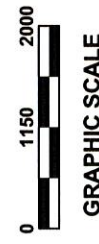


CITY OF ALAMO
WATER AND WASTEWATER MASTER PLAN
EXISTING LIFT STATION DIRECT SERVICE AREAS
AND NUMBER OF ACTIVE WASTEWATER CONNECTIONS

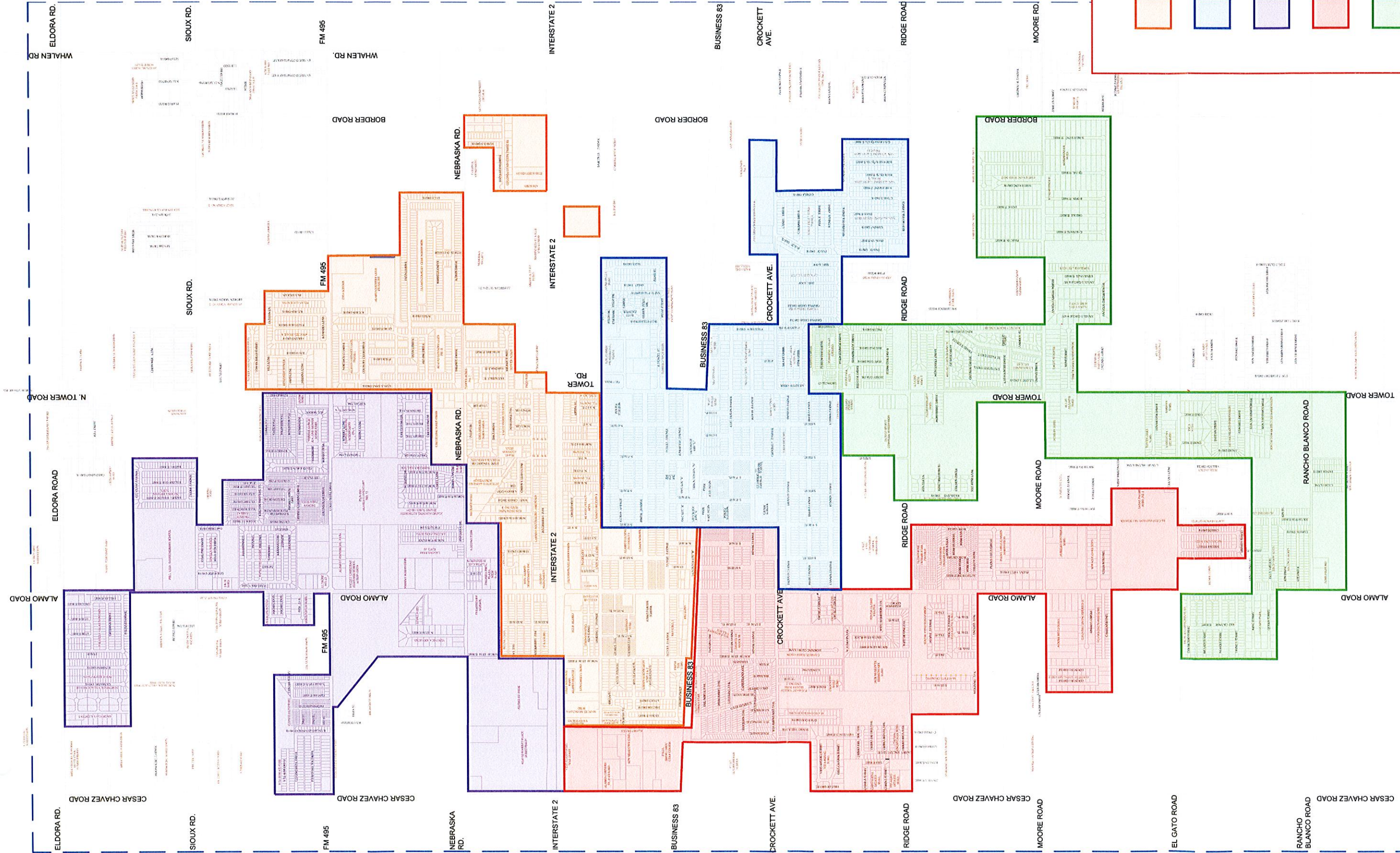


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



MAP No. **4-4**



GRAPHIC SCALE



LEGEND

-  LIFT STATION NO.1 SERVICE AREA
-  LIFT STATION NO.1 & 2 SERVICE AREA
-  LIFT STATION NO.8 SERVICE AREA
-  LIFT STATION NO.8 & 21 SERVICE AREA
-  LIFT STATION NO.19 SERVICE AREA

CITY OF ALAMO

WATER AND WASTEWATER MASTER PLAN

EXISTING MAJOR LIFT STATION OVERALL SERVICE AREAS

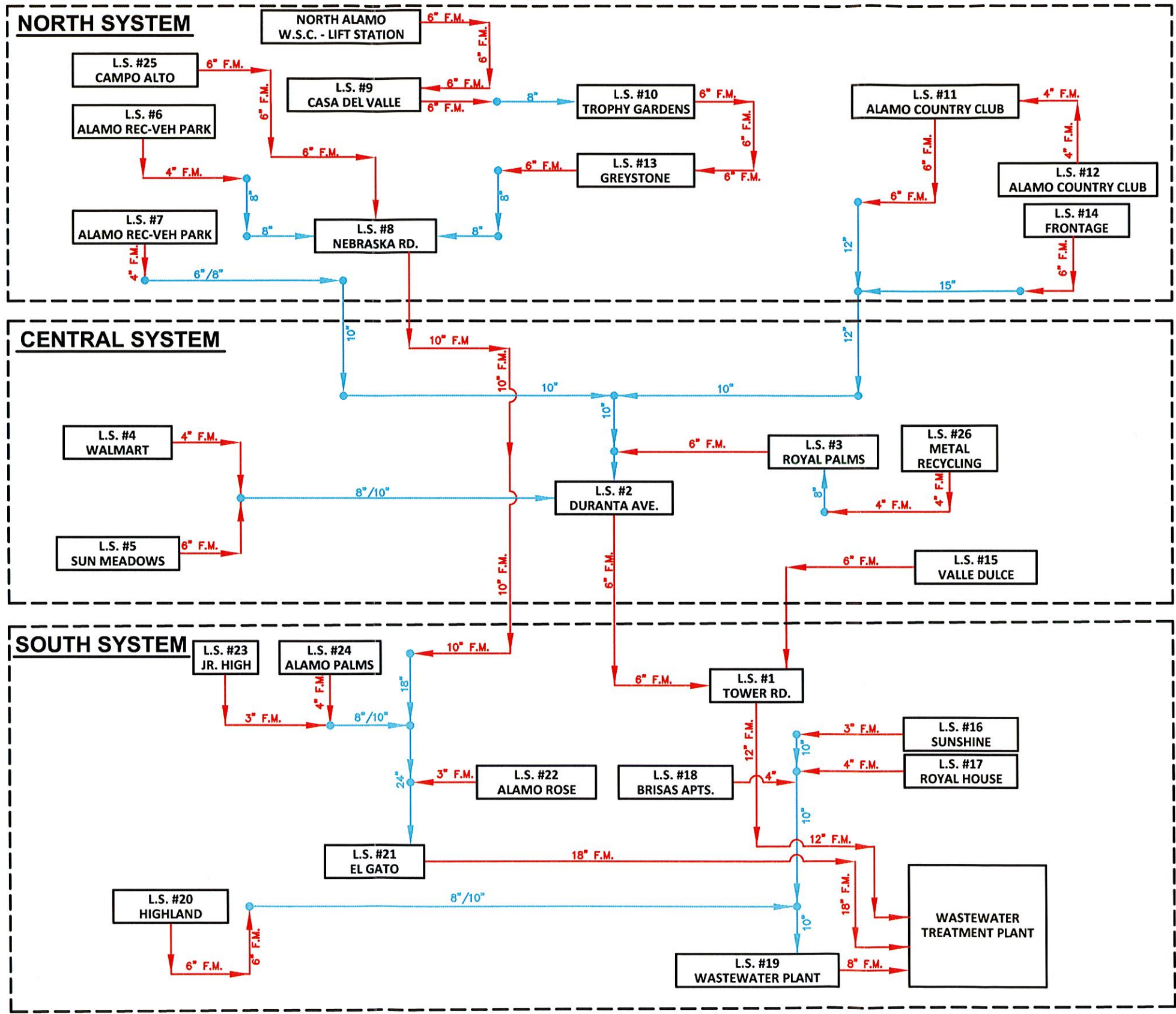


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McAllen | Harlingen | Weslaco

MAP No.

4-5



LEGEND

- 6" F.M. → FORCE MAIN LINE
- 8" → GRAVITY SANITARY SEWER LINE
- SEWER RECEIVING MANHOLE
- LIFT STATION

Dropbox (Cruz-Hogan Consultant)\CHC - Westaco AutoCAD Files

The wastewater treatment plant's Lift Station No. 19 pumps the flow directly into the City's adjacent wastewater treatment plant.

Table 4-6 summarizes the estimated wastewater flows (in year 2022) for each of the sub-area lift stations for each major collection system sub-area.

A summary of flows for each of the existing 26 lift stations currently in the City of Alamo Wastewater collection system are also presented.

The table includes number of wastewater connections for each lift station, contributing lift station flows, average and peak flows and flow of each lift station and a percentage of the total system flow.

**TABLE 4-6
WASTEWATER LIFT STATION SYSTEM FLOWS – 2022 SYSTEM**

	Estimated Wastewater Connections	Contributing Lift Stations	Contributing Connections	Total Sub-System Connections	Average Flow (gals/day)	Max Flow (gals/day)	Flow as Percent of Total Flow
NORTH COLLECTION SYSTEM							
Main Lift Station:							
Lift Station No. 8	285	LS# 6, 13, 10, 9, 25, NAWSC	1,700	1,985	273,930	420,820	22.23%
Secondary Stations:							
Lift Station No. 9	530	NAWSC	355	885	122,130	187,620	12.10%
Lift Station No. 10	698	LS# 9, NAWSC	885	1,583	218,454	335,596	21.65%
Lift Station No. 13	161	LS# 10, 9, NAWSC	1,583	1,744	240,672	369,728	23.85%
Lift Station No. 11	289	LS# 12	241	530	73,140	112,360	7.25%
Sub-Stations:							
Lift Station No. 14	45	-	0	45	6,210	9,540	0.62%
Lift Station No. 12	289	-	0	289	39,882	61,268	3.95%
Lift Station No. 25	185	-	0	185	25,530	39,220	2.53%
Lift Station No. 6	127	-	0	127	17,526	26,924	1.74%
Lift Station No. 7	158	-	0	158	21,804	33,496	2.16%
NAWS Lift Station (equivalent)	355	-	0	355	48,990	75,260	4.86%
System Sub-Total	3,122				430,836	661,864	35%
CENTRAL COLLECTION SYSTEM							
Main Lift Station:							
Lift Station No. 2	1,065	LS# 7,8, 13, 10, 9, NAWSC, 6, 25	2,499	3,564	491,832	755,568	48.75%
Secondary Stations:							
Lift Station No. 3	190	LS# 26	1	191	26,358	40,492	2.61%
Sub-Stations:							
Lift Station No. 26	1	-	-	1	138	212	0.01%
Lift Station No. 15	497	-	-	497	68,586	105,364	6.80%
Lift Station No. 4	4	-	-	4	552	848	0.05%
Lift Station No. 5	4	-	-	4	552	848	0.05%
System Sub-Total	1,761				243,018	373,332	20%
SOUTH COLLECTION SYSTEM							
Main Lift Station:							
Lift Station No. 1	1,049	LS# 2,15	4,061	5,110	705,180	1,083,320	69.89%
Lift Station No. 21	745	LS# 8, 22, 23, 24, 8	2,751	3,496	482,448	741,152	47.82%
Secondary Stations:							
Lift Station No. 19	906	LS# 8, 20, 16, 17	646	1,552	214,176	329,024	21.23%
Sub-Stations:							
Lift Station No. 16	230	-	0	230	31,740	48,760	3.15%
Lift Station No. 17	205	-	0	205	28,290	43,460	2.80%
Lift Station No. 18	6	-	0	6	828	1,272	0.08%
Lift Station No. 20	211	-	0	211	29,118	44,732	2.89%
Lift Station No. 22	160	-	0	160	22,080	33,920	2.19%
Lift Station No. 23	362	-	0	362	49,956	76,744	4.95%
Lift Station No. 24	173	-	0	173	23,874	36,676	2.37%
System Sub-Total	4,047				558,486	857,964	45%
TOTAL FLOW INTO WASTEWATER TREATMENT PLANT	8,930		-	-	1,232,340	1,893,160	100%

Notes:

* Includes 350 NAWSC Equivalent Connections

** Includes all connections on master accounts

(1) Average 30-Day Flow = 138 gal/con/day

(2) Maximum Day Flow = 212 gal/con/day

Table 4-7 summarizes the estimated wastewater flows of the City’s five main lift stations (in year 2022) and includes the flow percent of each as a percentage of the City’s total wastewater flows.

**TABLE 4-7
WASTEWATER COLLECTION SYSTEM – 2022 SYSTEM
EXISTING MAIN STATIONS FLOWS**

2022 Wastewater Main Transfer Lift Station Systems and Area Served	Average Flow (gals/day)	Max 30-Day Flow (gals/day)	Flow as Percent of Total City Flow
Total City Wastewater Flow	1,230,000	1,550,000	100%
Lift Station No. 8 Overall Service Area	283,728	357,744	23%
Lift Station No. 2 Overall Service Area	491,832	620,136	40%
Lift Station No. 1 Overall Service Area	705,180	889,140	57%
(Includes Lift Station No.2 Area)			
Lift Station No. 21 Overall Service Area	482,448	608,304	39%
(Includes Lift Station No.8 Area)			
Lift Station No. 19 Overall Service Area	214,176	270,048	17%

4.6.2 Consolidation and Elimination of Existing Lift Stations

The City currently operates 26 lift stations located throughout the wastewater collection system. Of the 26 existing lift stations, only 5 could be considered as main lift stations with the remaining 16 lift stations being smaller in sizes. The distances from lift station to lift station, and depths of existing lift stations were factors used to determine the possible elimination and consolidation of the existing lift stations.

The overall layout of the existing lift stations was analyzed to determine if any of the smaller lift stations could be eliminated, if practical, from the wastewater collection system and the flows of those smaller lift stations be diverted and consolidated with other larger lift stations.

It was determined that the following smaller lift stations could be eliminated and their flows redirected to other nearby larger lift stations.

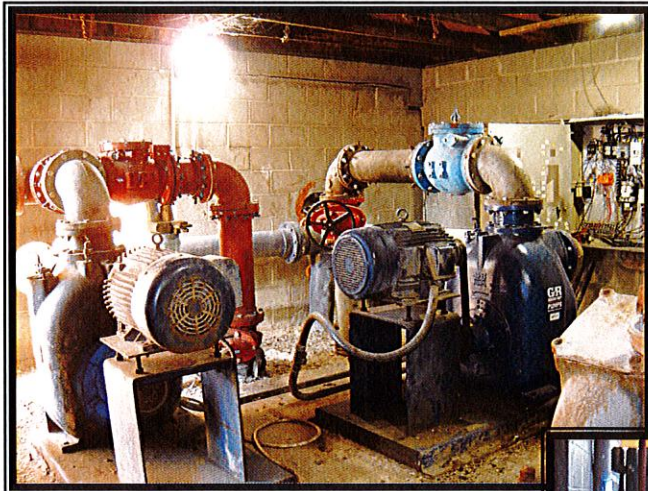
- Lift Station No. 16 (Sunshine) could be decommissioned and flows be directed through new gravity sewer main lines to Lift Station No. 1 (Tower Road). This would need to be done only when Lift Station No. 1 is relocated.
- Lift Station No. 20 (Highland) could be decommissioned and flows directed through new gravity main lines to Lift Station No. 21.

4.6.3 Wastewater Collection System Lift Stations

Lift Station No.1 - Tower Road

This lift station is located on Tower Road, approximately 1,800 feet south of Business Highway 83. The lift station's gravity flow service area is approximately 300 acres in size. This lift station also receives force main flows directly from Lift Station No. 2 service area and Lift Station No. 15 service area. The lift station is equipped with two 8-inch Gorman Rupp 30-HP self-priming centrifugal pumps. Based on information obtained, each pump has a capacity rating of 1,500 gpm with a Total Dynamic Head of 39 feet. The pumps discharge into a 12-inch force main, located on Tower Road that flows south and discharges at the wastewater treatment plant main lift station.

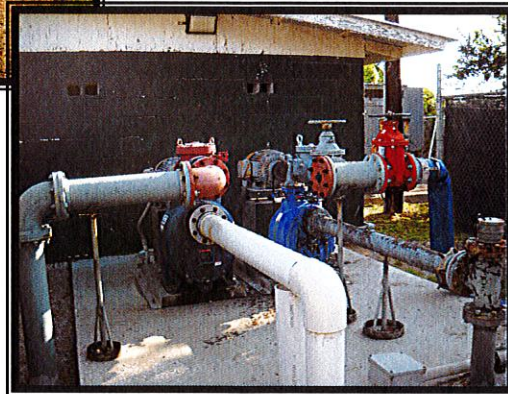
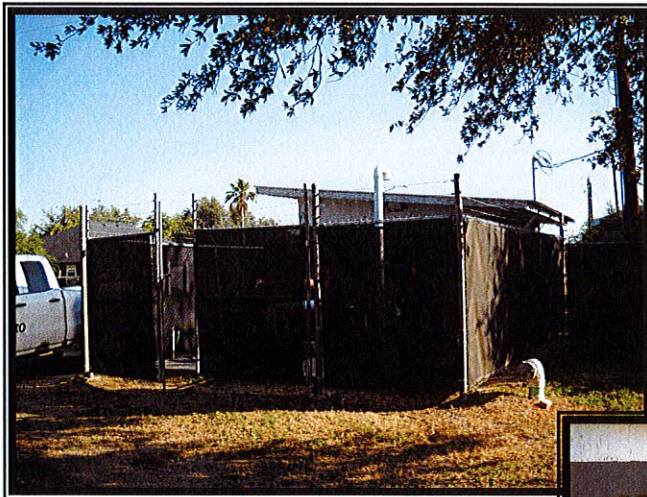
This station is currently located on a limited site, and the wet well is located in a city alley. This station is currently in the planning stages to be abandoned and replaced with a new station in the near future.



Lift Station No. 2 - Duranta Avenue

This lift station is located on North Sixth Street, near the intersection of Duranta Avenue. This lift station's gravity flow service area is approximately 300 acres in size. The lift station is equipped with one 4-inch and one 6-inch Gorman Rupp centrifugal self-priming pump. Both pumps are driven with 25-HP motors. This lift station has a 6-inch discharge force main flowing south and discharges at Lift Station No. 1 located on Tower Road.

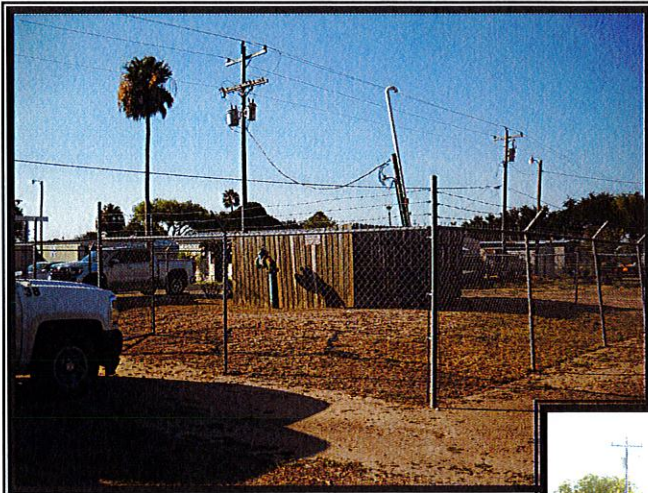
This lift station is in a relatively good condition, and no repairs or rehabilitation are currently required.



Lift Station No. 3 - Royal Palms

This lift station is located just off Duranta Avenue, approximately 1,110 feet east of Tower Road, 300 feet south of Duranta Avenue, and adjacent to the Royal Palms Mobile Home Community. This lift station's gravity flow service area is approximately 75 acres in size. This lift station also receives force main flows directly from Lift Station No. 26 service area. This station is currently equipped with two 4-inch Crown self-priming centrifugal pumps and has a 10-foot diameter fiberglass wet well. The lift station has a 6-inch discharge force main running along Duranta Avenue and discharges into a manhole located on Tower Road.

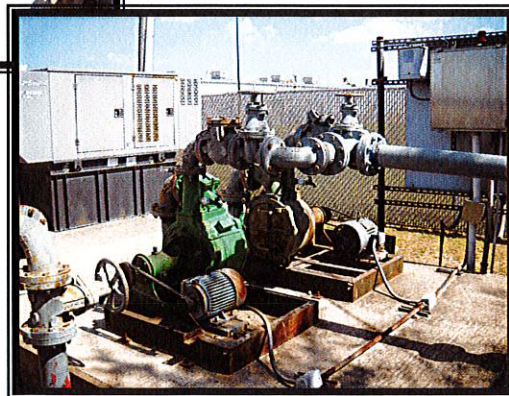
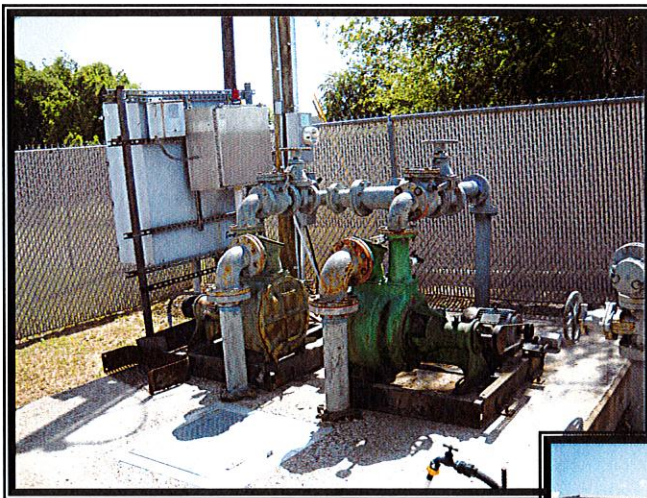
This station is in relatively good condition and no repairs or rehabilitation are currently required.



Lift Station No. 4 - Walmart

This lift station is located on Duranta Avenue, approximately 1,200 feet east of Cesar Chavez Road, just behind the Walmart Center. This lift station receives gravity wastewater flow mostly from the adjacent commercial development in the area. This lift station also receives force main flows directly from Lift Station No. 5. This station is equipped with two 3-inch Crown self-priming centrifugal pumps and driven with 3-HP motors. The lift station has a 4-inch discharge force main which crosses across Duranta Avenue into a manhole on a gravity collection system.

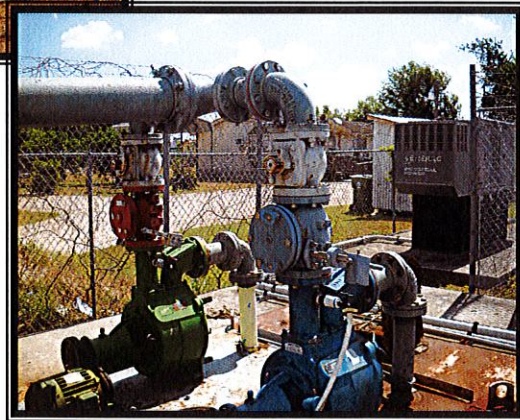
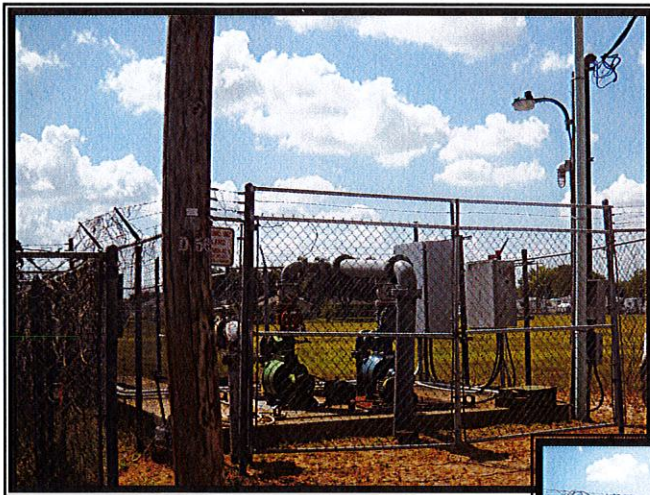
This station is in relatively good condition and no repairs or rehabilitation are currently required.



Lift Station No. 5 - Sun Meadows

This lift station is located on Cesar Chavez Road, approximately 400 feet south of Duranta Avenue. This lift station receives gravity wastewater from the commercial area on Duranta Avenue and the adjacent residential subdivision. This station is currently equipped with two 4-inch Crown self-priming centrifugal pumps and driven with 3-HP motors. The lift station has a 6-inch discharge force main and discharges into Lift Station No. 4 located behind the Walmart commercial development.

This station is in relatively good condition and no repairs or rehabilitation are currently required.

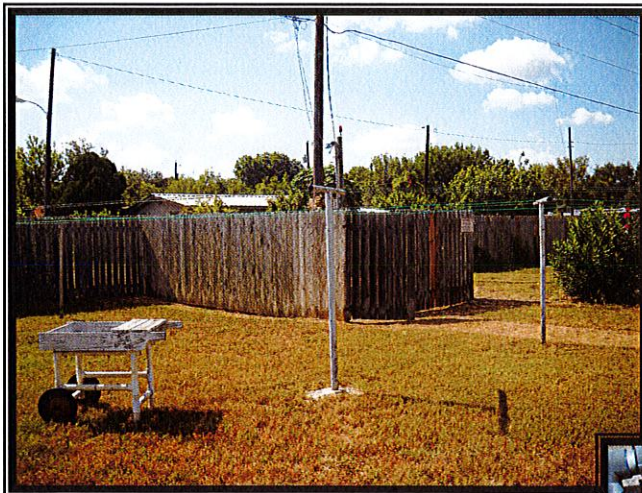


Lift Station No. 6 - Alamo Rec-Veh Park

This lift station is located on the east side of privately owned Alamo Rec-Veh Park. This lift station receives gravity wastewater flow mostly for the RV Park's wastewater collection system.

This station is currently equipped with only one 4-inch Crown self-priming centrifugal pump and driven with 5-HP motors. The lift station has a 4-inch force main which pumps in a northern direction and discharges into a manhole located on Nebraska Road.

The lift station has a 6-foot diameter concrete wet well that is severely deteriorated. The lift station's electrical system and controls are in poor condition and need to be replaced. Also, the lift station lacks a second pump that is required in order to meet TCEQ pump requirements. Proper maintenance access is also lacking, including an all-weather paved driveway from the lift station site to the adjacent RV park main roadway.



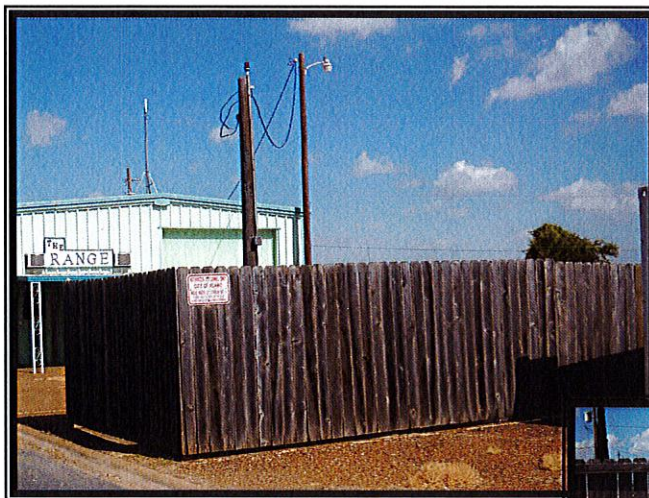
Lift Station No. 7 - Alamo Rec-Veh Park Side

This lift station is located on the west side of the privately owned Alamo Rec-Veh Park. This lift station receives gravity wastewater flow mostly for the RV Park's wastewater collection system.

This station is currently equipped with two 4-inch Crown self-priming centrifugal pumps and driven with 5-HP motors each.

The lift station has a 4-inch discharge force main with pump flow to a collection system manhole located in the alley, east of North 13th Street, between West Hackberry Road Avenue and West Ivy Avenue.

This lift station is in fair condition and does not require any immediate rehabilitation or repairs.



Lift Station No. 8 – Nebraska Road

This lift station is located at the end of an existing unpaved alley, approximately 400 feet south of Nebraska Avenue, just west of North 10th Street.

This lift station receives gravity wastewater flow from an approximately 300-acre service residential area.

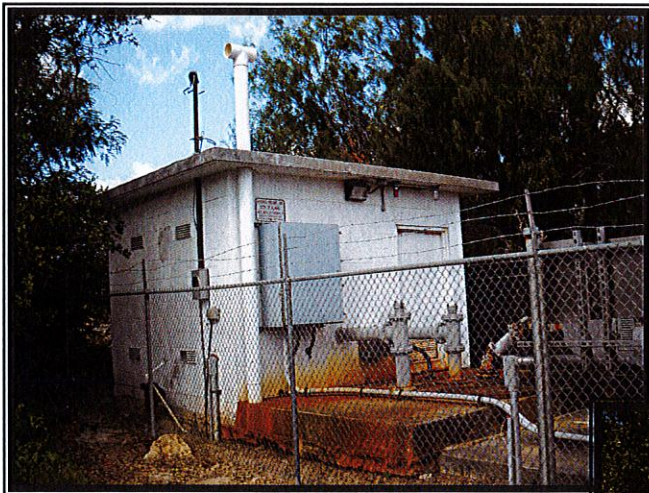
This lift station also receives force main wastewater flows directly from Lift Station No. 25.

This station is currently equipped with two 8-inch Gorman Rupp self-priming centrifugal pumps and driven with 15-HP motors.

The lift station has a 10-inch force main discharge line, which is approximately 8,000 LF long. The force main discharges into a manhole which is on an existing 18-inch gravity sewer line located on Alamo Road between Austin Avenue and Austin Lane.

The condition of this lift station is poor. The existing 10-foot diameter concrete wet well is severely deteriorated and electrical controls and systems are in poor condition. Pumps and motors need to be replaced.

Immediate rehabilitation is recommended.



Lift Station No. 9 – Casa del Valle

This lift station is located on North Alamo Road, approximately 700 feet north of FM 495. This lift station receives direct gravity wastewater flow from an approximately 100-acre wastewater service area. The area is mostly comprised of residential housing. Additionally, this lift station also receives wastewater flows from a North Alamo WSC lift station located on Tower Road and just north of Sioux Road.

This station is currently equipped with two 4-inch Hydro Con self-priming centrifugal pumps and driven with 5-HP motors. The lift station construction includes a 6-foot diameter fiberglass wet well.

The lift station has a 4-inch force main discharge line, which is approximately 500 LF long, and discharges into a manhole located on an existing 8-inch gravity sewer line on FM 496 Road.

The lift station is in relatively good condition. The pumps, motors, and controls are in good working order. Lift station perimeter fencing is new. No immediate rehabilitation or repairs are currently needed.



Lift Station No. 10 – Trophy Gardens

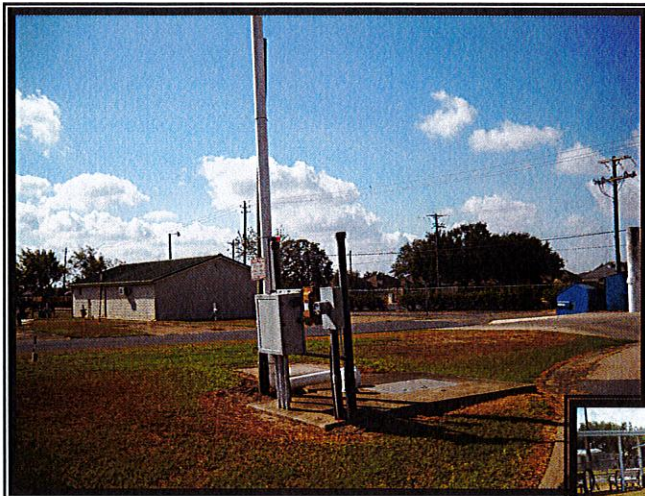
This lift station is located on 1st Place Drive, approximately 100 feet north of FM 495, within the Winter Ranch RV and Mobile Home Park. This lift station receives direct gravity wastewater flows only from the RV Park.

The lift station wastewater service area is approximately 85 acres. The area is mostly comprised of residential mobile homes and recreational vehicles. Additionally, this lift station also receives wastewater flows from a North Alamo WSC lift station located on Tower Road and just north of Sioux Road.

This station is currently equipped with two 4-inch Hydro Con self-priming centrifugal pumps and driven with 5-HP motors. The lift station construction includes a 6-foot diameter fiberglass wet well.

The lift station has a 4-inch discharge force main line, which is approximately 500 LF long. The lift station force main line discharges into a manhole located on an existing 8-inch gravity sewer line on FM 496 Road.

The lift station is in relatively good condition. The pumps, motors, and controls are in good working order. Lift station perimeter fencing is new. No immediate rehabilitation or repairs are currently needed.



Lift Station No. 11 – Alamo Country Club

This lift station is located in the Alamo Country Club, in the alleyway behind Northcutt Drive and Citrus Drive intersection. This lift station receives direct gravity wastewater flows only from the County Club residential area and residential areas north of FM 495. Additionally, wastewater flows from Lift Station No. 12 discharge into this station.

The lift station wastewater service area is approximately 165 acres. The area is mostly comprised of residential homes.

This station is currently equipped with two 4-inch Flo Serve self-priming centrifugal pumps and driven with 15-HP motors. The lift station construction includes a 10-foot diameter concrete wet well.

The lift station has a 6-inch discharge force main line, which is approximately 6,500 LF long. The lift station force main line discharges at a manhole located on an existing 12-inch gravity sewer line on Tower Road, just north of the IH-2 Expressway.

The lift station is in relatively good condition. The pumps, motors, and controls are in good working order. Lift station perimeter fencing is fairly new. No immediate rehabilitation or repairs are currently needed.



Lift Station No. 12 – East Alamo Country Club

This lift station is located in the eastern side of the Alamo Country Club, in the alley behind the residential lots along Diana Avenue and Lucy Drive. This lift station receives direct gravity wastewater flows only from the eastern section of the County Club residential area.

The lift station wastewater service area is approximately 75 acres. The area is mostly comprised of residential homes.

This station is currently equipped with only one 4-inch Gorman Rupp self-priming centrifugal pump and driven with 10-HP motors. The lift station construction includes a 5-foot diameter concrete wet well. The wet well is not coated and shows signs of deterioration.

The lift station has a 4-inch discharge force main line which is approximately 3,500 LF long. The lift station force main line discharges into a manhole located adjacent to Lift Station No. 11.

The lift station is in poor condition. The pump and motor are old. The electrical lift station controls are deteriorated. Lift station perimeter fencing is in fair condition. Immediate rehabilitation and repairs are needed, along with the installation of a second pump and motor to meet regulatory requirements.



Lift Station No. 13 – Greystone

This lift station is on Tower Road, approximately 400 feet north of Nebraska Road.

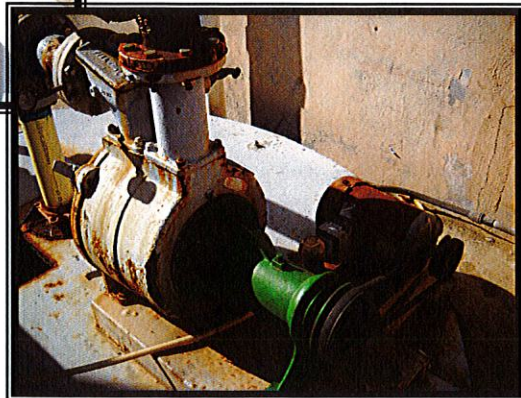
This lift station only receives direct gravity wastewater flows from the residential lots in both the Greystone Subdivision and the Tower Land Subdivisions.

The lift station wastewater service area is approximately 50 acres. The area is mostly comprised of residential homes.

This station is currently equipped with two 4-inch Crown self-priming centrifugal pumps and driven with 10-HP motors. The lift station construction includes a 10-foot diameter fiberglass wet well.

The lift station has a 6-inch discharge force main line, which is approximately 3,000 LF long. The lift station force main line discharges into a manhole on an 8-inch gravity line located at the intersection of Nebraska Road and North 8th Street.

The lift station is in fair condition. No immediate rehabilitation or repairs are currently required.



Lift Station No. 14 – Frontage

This lift station is located in the most eastern side of the City, on IH-2 Expressway, approximately 700 feet east of Border Road.

This lift station receives gravity wastewater flows only from area residential homes and a few commercial connections along Expressway IH-2 frontage road.

The lift station wastewater service area is approximately 45 acres.

This station is currently equipped with two 4-inch Gorman Rupp self-priming centrifugal pumps and driven with 7.5-HP motors. The lift station construction includes a 6-foot diameter fiberglass wet well.

The lift station has a 6-inch discharge force main line, which is approximately 1,000 LF long. The lift station force main line discharges into a manhole located on the Expressway Frontage, approximately 1,800 feet east of Border Road.

The lift station is in relatively good condition.

No rehabilitation or repairs are currently needed.



Lift Station No. 15 – Valle Dulce

This lift station is located on Crockett Avenue, approximately 2,800 LF east of Tower Road. This lift station receives direct gravity wastewater flows mostly from residential areas.

The lift station wastewater service area is approximately 100 acres. The area is mostly comprised of residential homes.

This station is currently equipped with two 6-inch Crown self-priming centrifugal pumps and driven with 20-HP motors. The lift station construction includes an 8-foot diameter fiberglass wet well.

The lift station has a 6-inch discharge force main line, which is approximately 1,500 LF long. The lift station force main line discharges into a manhole located on Crockett Avenue, west of the lift station.

The lift station is currently in fairly good condition. No immediate rehabilitation or repairs are needed.



Lift Station No. 16 – Sunshine

This lift station is located on Plan Harbor Drive, approximately 300 LF east of Tower Road. This lift station receives direct gravity wastewater flows mostly from residential areas.

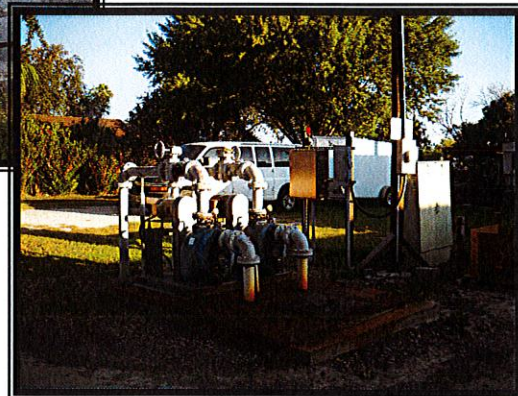
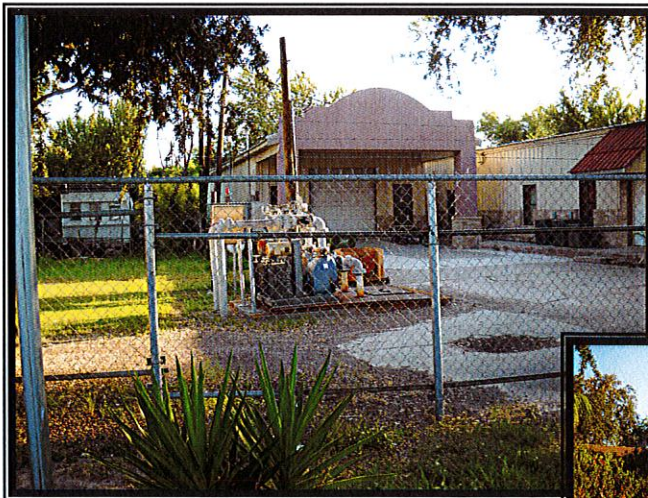
The lift station wastewater service area is approximately 100 acres. The area is mostly comprised of residential homes.

This station is currently equipped with two 4-inch Gorman Rupp self-priming centrifugal pumps and driven with 7.5-HP motors. The lift station construction includes a 6-foot diameter fiberglass wet well.

The lift station has a 3-inch discharge force main line, which is approximately 300 LF long. The lift station's force main line discharges into a manhole located on a 10-inch gravity line on Tower Road, approximately 300 LF west of the lift station.

The lift station is currently in fairly good condition. However, it is located behind private fencing and lacks proper access from a public road. Additionally, the lift station is very near to existing structures and homes. The lift station also has no proper fencing and does not meet TCEQ requirements.

It is recommended that the City acquire the required property around the lift station, provide fencing, and install a paved driveway access from Palm Harbor Drive.



Lift Station No. 17 – Royal House

This lift station is located in an alleyway behind King James Drive.

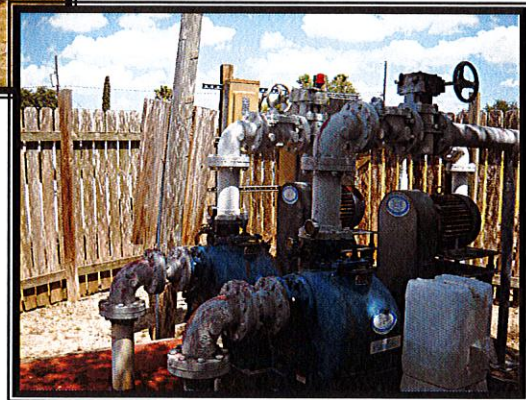
This lift station receives direct gravity wastewater flows mostly from residential areas.

The lift station wastewater service area is approximately 50 acres. The area is mostly comprised of residential homes and mobile homes.

This station is currently equipped with two 4-inch Gorman Rupp self-priming centrifugal pumps and driven with 7.5-HP motors. The lift station construction includes a 6-foot diameter fiberglass wet well.

The lift station has a 6-inch discharge force main line, which is approximately 1,000 LF long. The lift station force main line discharges into a manhole located on Tower Road, approximately 1,500 north of Moore Road.

The lift station is currently in fairly good condition. No immediate rehabilitation or repairs are needed.



Lift Station No. 18 – Brisas Apartments

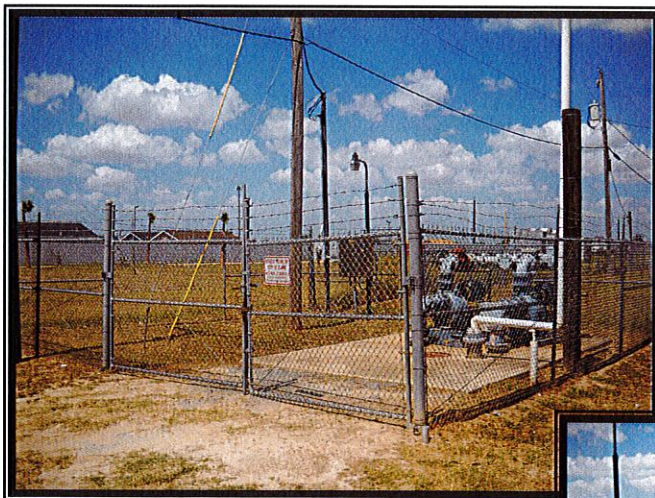
This lift station is located on Tower Road, approximately 600 LF south of Moore Road. This lift station receives direct gravity wastewater flows mostly from a small residential area.

The lift station wastewater service area is approximately 15 acres. The area is mostly comprised of residential homes.

This station is currently equipped with two 6-inch Gorman Rupp self-priming centrifugal pumps and driven with 15-HP motors. The lift station construction includes an 8-foot diameter fiberglass wet well.

The lift station has an 8-inch discharge force main line, which is approximately 100 LF long. The lift station force main line discharges into a manhole which is located in the middle of Tower Road, approximately 100 LF east of the lift station.

The lift station is currently in fairly good condition. No immediate rehabilitation or repairs are needed.



Lift Station No. 19 – Wastewater Plant

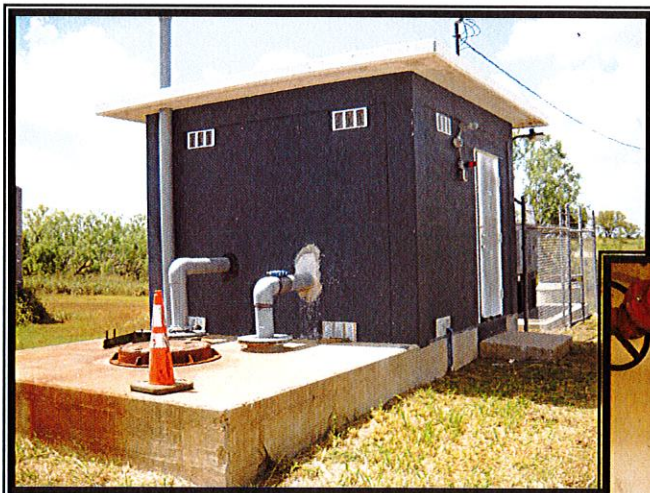
This lift station is located on South Tower Road, approximately 500 LF south of Rancho Blanco Road and adjacent to the City's existing wastewater treatment plant. This lift station receives direct gravity wastewater flows mostly from a large existing commercial and residential area. This lift station pumps directly to the wastewater treatment plant.

This station is currently equipped with a 4-inch Crown self-priming centrifugal pump and a 4-inch Gorman Rupp self-priming centrifugal pump, both driven by two 15-HP motors. The lift station construction includes an 8-foot diameter fiberglass wet well.

The lift station has an 8-inch discharge force main line, which is approximately 700 LF long. The lift station force main line discharges at the existing wastewater treatment plant head works.

The lift station's wet well is severely deteriorated. However, the existing pumps and motors, electrical controls, and emergency generator are in relatively good and working condition.

The existing lift station wet well requires immediate structural rehabilitation and repairs.



Lift Station No. 20 – Highland

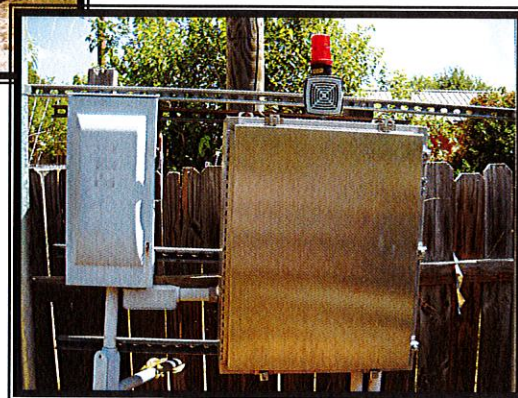
This lift station is located along an alleyway behind residential homes on Trinity Park, approximately 125 LF east of South Tower Road. This lift station receives direct gravity wastewater flows mostly from residential areas.

The lift station wastewater service area is approximately 45 acres. The area is mostly comprised of residential homes.

This station is currently equipped with two 4-inch Gorman Rupp self-priming centrifugal pumps and driven with 7.5-HP motors. The lift station construction includes a 6-foot diameter fiberglass wet well.

The lift station has a 6-inch discharge force main line, which is approximately 2,600 LF long. The lift station force main line discharges into a manhole located at the intersection of South 9th Street and Rancho Blanco Road.

The lift station is currently in fairly good condition. No immediate rehabilitation or repairs are needed.



Lift Station No. 21 – El Gato

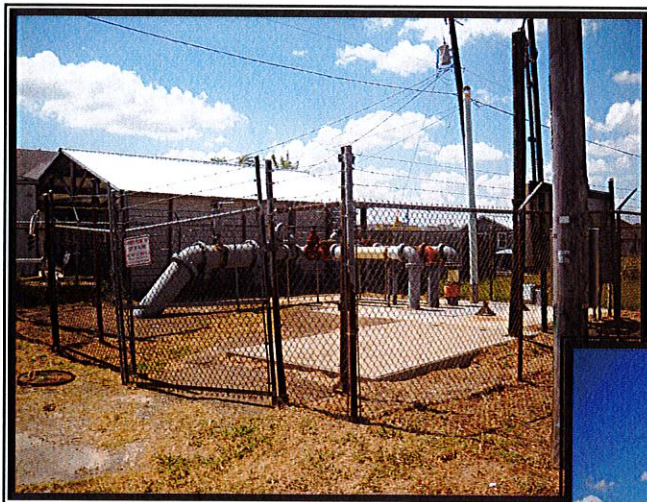
This lift station is located on El Gato Road, approximately 600 LF east of Alamo Road. This lift station receives direct gravity wastewater flows from both residential and commercial areas.

The lift station wastewater service area is approximately 600 acres. Additionally, this lift station receives flows from Lift Station Nos. 22, 23, and 24.

This lift station is a tri-plex station currently equipped with three 6-inch submersible pumps and driven with 20-HP motors. The lift station construction includes a 12-foot diameter fiberglass wet well.

This lift station has an 18-inch discharge force main line, which is approximately 6,500 LF long. The lift station discharges directly into the head works located at the existing wastewater treatment plant.

The lift station is currently in fairly good condition. However, high concentrations of hydrogen sulfide gases were observed, which have deteriorated the metal chain link fencing and some of the metal painted electrical panels. We recommend repairs/replacement to existing fencing and electrical panel and supports due to deterioration. Also, we recommend an odor control system be installed to control gas emission and to control the deterioration of the lift station components due to the high concentration of the hydrogen sulfide gases.



Lift Station No. 22 – Alamo Rose

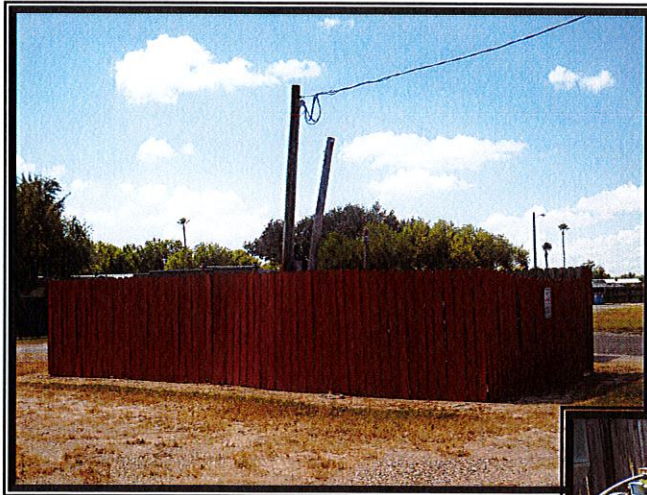
This lift station is located on South Alamo Road, approximately at the intersection of Nogal Avenue. This lift station receives direct gravity wastewater flows mostly from residential areas.

The lift station wastewater service area is approximately 40 acres. The area is mostly comprised of residential mobile homes.

This station is currently equipped with one 3-inch Gorman Rupp and one 3-inch Crown self-priming centrifugal pump, and driven with 5-HP motors. The lift station construction includes a 6-foot diameter concrete wet well.

The lift station has a 4-inch discharge force main line, which is approximately 150 LF long. The lift station's force main line discharges into a manhole located across Alamo Road.

The lift station is currently in fairly good condition. No immediate rehabilitation or repairs are needed.



Lift Station No. 23 – Jr. High

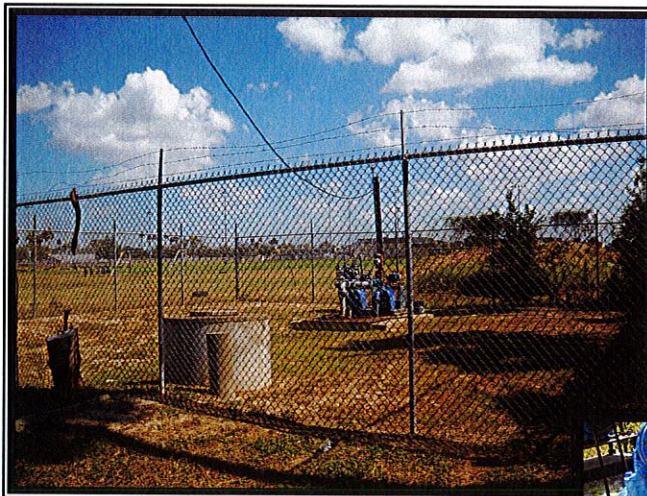
This lift station is located on Crockett Avenue, approximately 1,000 LF east of Cesar Chavez Road. This lift station receives direct gravity wastewater flows mostly from residential areas.

The lift station wastewater service area is approximately 110 acres. The area is mostly comprised of residential homes and RVs.

This station is currently equipped with two 3-inch Gorman Rupp self-priming centrifugal pumps and driven with 5-HP motors. The lift station construction includes a 6-foot diameter concrete wet well.

The lift station has a 3-inch discharge force main line, which is approximately 1,600 LF long. The lift station force main line discharges into a manhole located at the intersection of Crockett Street and Lance Lane.

The lift station is currently in fairly good condition. No immediate rehabilitation or repairs are needed. However, we recommend that the concrete wet well surface be coated in the near future and the lift station base plate be repaired at the opening.



Lift Station No. 24 – Alamo Palms

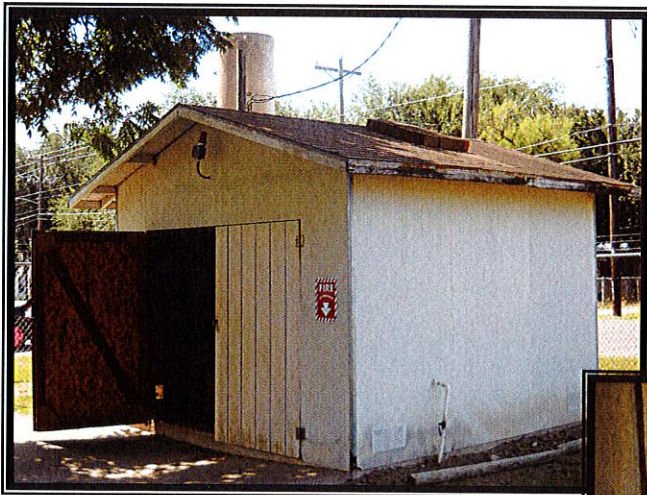
This lift station is located on Crockett Avenue, approximately 2,500 LF east of Cesar Chavez Road. This lift station receives direct gravity wastewater flows mostly from residential areas.

The lift station wastewater service area is approximately 35 acres. The area is mostly comprised of residential mobile homes.

This station is currently equipped with one 4-inch Gorman Rupp and one 4-inch self-priming centrifugal pump driven with two 5-HP motors. The lift station construction includes a 6-foot diameter concrete wet well.

The lift station has a 4-inch force main, which is approximately 100 LF long, which discharges into a manhole located at the intersection of Crockett Street and Verdes Street.

The lift station is currently in fairly good condition, except for a deteriorated concrete wet well. Immediate rehabilitation and repairs needed include the rehabilitation of the deteriorated concrete wet well.



Lift Station No. 25 – Campo Alto

This lift station is located at the intersection of Center Street and Rancho Escondido Drive in the Campo Alto Subdivision.

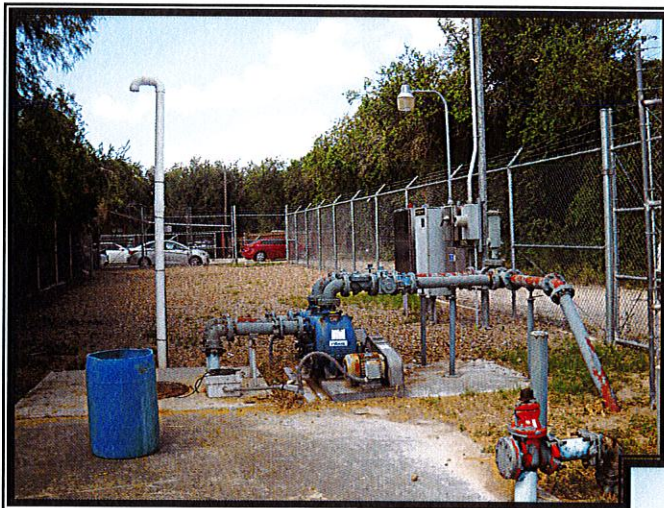
This lift station receives direct gravity wastewater flows from residential areas.

The lift station wastewater service area is approximately 70 acres. The lift station's service area is mostly comprised of residential homes.

This station is currently equipped with two 4-inch Gorman Rupp self-priming centrifugal pumps and driven with 10-HP motors. The lift station construction includes a 6-foot diameter fiberglass wet well.

The lift station has a 10-inch discharge force main which is approximately 14,000 LF long and discharges into a manhole on an 18-inch gravity main located near the intersection of Alamo Road and Austin Lane.

The lift station is currently in fairly good condition. No immediate rehabilitation or repairs are needed.



Lift Station No. 26 – Metal Recycling

This lift station is located on Duranta Avenue, approximately 3,000 LF east of Tower Road. This lift station receives direct gravity wastewater flows from a nearby large commercial automobile recycling and parts business.

This station is currently equipped with one 4-inch Gorman Rupp and one 4-inch Crown self-priming centrifugal pump and driven with 5-HP motors. The lift station construction includes a 5-foot diameter concrete wet well.

The lift station has a 3-inch discharge force main line, which is approximately 1,800 LF long. The lift station force main line discharges into a manhole located near the intersection of Duranta Avenue and Castle Palms Drive.

The lift station is currently in poor condition. One pump motor is missing. The existing concrete wet well is in good condition. Rehabilitation to the project should include new pumps, motors, controls, and electrical systems.



4.6.4 Wastewater Collection System Lines

The layout of the collection system is mostly a gravity system with flows generally flowing towards the direction of the City's existing wastewater treatment plant. The sizes of the gravity pipeline network range from 6 inches to 24 inches in diameter. The gravity sewer pipelines are constructed of plastic lines (PVC) or vitrified clay pipe (VCP). The manholes in the collection system are constructed of concrete bottoms with clay bricks or of fiberglass.

There are areas in the City where many brick manholes and clay exist. Many of these lines are over 60 to 70 years old.

The City's wastewater collection line system, located mostly in the Original Town site, was constructed in the 1940s and 1950s. It has deteriorated and is in need of replacement and/or rehabilitation. The City is currently experiencing a considerable amount of inflow and infiltration problems as a result of cracked and defective vitrified clay pipe lines. High concentrations of sewer gases (hydrogen sulfide) within the sewer pipeline system have deteriorated and damaged a large number of brick and concrete manholes.

Attached **Map No. 4-6** shows the location areas of the City where the clay lines are in need of replacement and manholes are in need of rehabilitation. In consideration of future possible costing and funding constraints and to aid in future work phasing, the locations of these existing clay lines are shown in separate location areas.

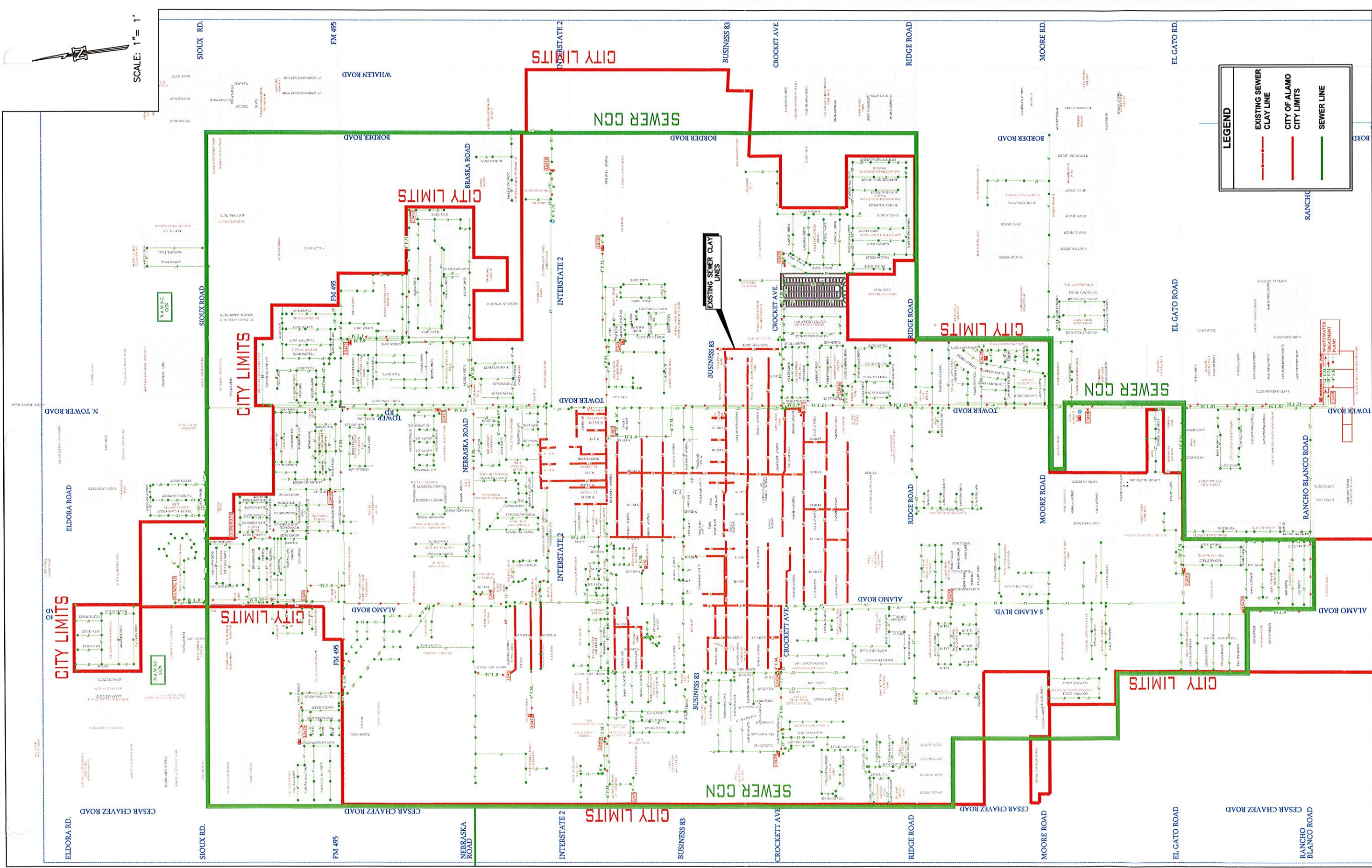
Based on **Map No. 4-6**, there are approximately 18,000 LF of existing clay lines, of varying sizes, and approximately 50 existing brick manholes which are in need of prompt rehabilitation.

4.7 ANALYSIS OF 2022 WASTEWATER COLLECTION SYSTEM

4.7.1 Methodology For Analysis

The following outlines the methodology used to assess the City's current 2022 wastewater collection system:

- Design and operational information pertaining to the wastewater collection system was collected and organized.
- Problems with the existing wastewater collection system identified by the City of Alamo were documented.
- Any previous reports concerning the collection system were reviewed.



CITY OF ALAMO
WATER AND WASTEWATER MASTER PLAN
EXISTING WASTEWATER GRAVITY LINES
NEEDING TO BE REPLACED AND REHABILITATED

CH
CRUZ - HOGAN
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 McAllen Harlingen Weslaco
 TBPE FIRM REGISTRATION No: F-4860

MAP No.
4-6

- Projects currently planned or underway were identified and incorporated into the system analysis.

4.7.2 Problems and Deficiencies Identified in Wastewater System

Input was solicited from City staff and personnel operating the City's wastewater system concerning any known and perceived problems with both the treatment and collection systems. Problems observed and information received from the City's personnel with the existing wastewater systems were as follows:

4.7.2.1 Wastewater Treatment Plant

Any problems with the City's existing wastewater treatment plant were not analyzed nor identified since the City is currently in the process of completing the construction of a new 3.0 MGD replacement wastewater treatment plant. The current existing wastewater treatment plant is planned to be decommissioned upon start-up of operations of the new wastewater treated plant scheduled for completion in the early months of year 2023.

4.7.2.2 Wastewater Line Collection Systems

The City's wastewater collection line system, mainly located in the Original Town site, was constructed in the 1940s and 1950s. Many of these sewer collections were constructed using clay lines and brick manholes. Due to the age of these systems, these sewer lines and manholes are increasingly deteriorating. Many of the lines are also collapsing and are in need of replacement. Many of the manholes are in need of rehabilitation. It is highly recommended that the City begin the process of replacing and rehabilitating these identified sewer pipelines and manholes. Replacement of the clay sewer lines and the rehabilitation of these manholes will reduce the water inflow and infiltration problems currently being experienced.

Based on existing mapping of the City's wastewater collection system, it is estimated that approximately 22,400 linear feet of existing 6-inch sewer main clay pipe line needs to be replaced with new 8-inch piping; approximately 23,800 linear feet of existing 8-inch clay pipeline needs to be replaced with new 8-inch piping; and approximately 8,700 linear feet of existing 10-inch clay pipe line needs to be replaced with new 10-inch piping. Additionally, it is estimated that approximately 150 existing brick manholes are in need of rehabilitation.

Map No. 4-6 shows the area location of the sewer lines and manholes that need to be replaced or rehabilitated.

4.7.2.3 Wastewater Lift Stations

1. Lift Station No. 1 - Tower Road

This lift station is one of the older lift stations in the City. This lift station pumps approximately 60 percent of all the wastewater generated in the City. The existing pump system is undersized and controls are antiquated. Additionally, the lift station is not properly situated with part of the lift station wet well being currently located in the City's alley right of way. The site's available area is very limited, and makes further improvements difficult. The lift station is also generating a significant amount of hydrogen sulfide sewer gases which is causing odor complaints from area residents. It has been previously recommended that this lift station be relocated. A relocation and improvements project is currently in the planning phases with possible funding through the Texas Water Development Board's Clean Water State Revolving Funding Program. The relocated lift station is proposed to be located further south on Tower Road and adjacent to the City's current Public Works building site.

2. Lift Station No. 2 - Duranta Avenue

This lift station's pumping capacities have grown over the years with the original pumps being enlarged. Subsequently the lift station existing force mains are being over-pressurized and causing problems with breaks and ruptures. It is recommended that the existing 6-inch and 4-inch force mains be replaced with new 10-inch force main lines. The new force main will be installed adjacent to the existing line and discharge directly into Lift Station No. 1, located on Tower Road.

3. Lift Station No. 7 - Alamo Rec-Veh Park East Side

This lift station location is landlocked and has limited access to a paved access roadway. The lift station lacks a second pump required by TCEQ, and the electrical controls are in poor condition. The lift station concrete wet well is severely deteriorated. Additionally, there appears to be no records of site ownership by the City. It is recommended that the station be replaced with a new one, and located in a more accessible location.

4. Lift Station No. 8 - Nebraska

The condition of this lift station is poor. The existing concrete is severely deteriorated and the controls and electrical system are in need of replacement. The existing pumps and motors appear to be in good condition and could be reused with a rehabilitation project.

Additionally, the lift station is located in an undesirable location. The lift station is situated on a small piece of land located at the dead end of an unpaved City alley making maintenance and accessibility to the lift station very difficult. It is recommended that the City immediately move forward to acquire the adjacent vacant property residential lots. The additional property would allow the City to have a larger site, which would allow for improved station maintenance operations and for much-needed direct access from an existing paved street, i.e., North Tenth Street.

5. Lift Station No. 12 - East Alamo Country Club

The condition of this lift station is poor. The station lacks the second pump required by TCEQ. Electrical controls are in need of replacement. The concrete wet well is showing signs of deterioration and should be coated with an epoxy-type liner. The lift station requires a total rehabilitation.

6. Lift Station No. 16 - Sunshine

This lift station, including equipment and electrical controls, are in good condition. The problem with this lift station is that maintenance accessibility from the roadway is very limited and difficult. The station is located behind private roadway chain link fencing and the lift station itself lacks security fencing required by TCEQ. It is unknown if the City has ownership of the lift station property site. The City should acquire the site property, if necessary, provide the proper security fencing, and install a paved maintenance driveway directly from the street. However, as an alternative that is being made a part of this study, the lift station could be eliminated and the flows rerouted to Tower Road Lift Station No. 1. However, Lift Station No. 1 relocation project would need to be completed, as described in Item No. 1 above.

7. Lift Station No. 19 - Wastewater Treatment Plant

The concrete wet well is showing signs of severe deterioration and should be coated with an epoxy-type liner. The lift station lacks the security fencing required by TCEQ. The lift station requires structural rehabilitation.

8. Lift Station No. 21 - El Gato

This lift station is in relatively good condition as it is one of the newer and most recently installed lift stations in the collection system. However, due to the lift station's large sewer collection service area and the time the wastewater is remaining in the system, the collection system is emitting a large volume of highly concentrated hydrogen sulfide gases. These gases have caused deterioration of the lift station fencing and other metal components. Fencing should be replaced and it is recommended that an odor control plan be implemented; or odor control systems be installed.

9. Lift Station No. 23 - Jr. High

The concrete wet well is showing signs of severe deterioration and should be coated with an epoxy-type liner. The lift station metal wet well cover plate is deteriorated and should be replaced.

10. Lift Station No. 24 - Alamo Palms

The concrete wet well is showing signs of severe deterioration and should be coated with an epoxy type liner.

11. Lift Station No. 26 - Metal Recycling

This lift station is in very poor condition. Pumps and piping are missing and electrical controls and electrical systems are in poor condition. The station needs to be totally rehabilitated.

4.7.2.4 Lift Station Force Main Lines

According to City Utility Staff, the most current significant problems with the existing lift station force mains involve the Lift Station No. 2's (Duranta Avenue) force main discharging directly into existing Lift Station No. 1 (Tower Road).

The City's personnel have indicated that the existing pumps in Lift Station No. 2 lack pumping capacity, and the lift station's force main becomes severely overloaded during peak wet weather flow periods, especially during large rain events. Most of the wastewater flows from both the North System and Central System lift stations flow into Lift Station No. 2. The existing force main is currently sized at 6 inches, and it is recommended that the line be replaced with a 10-inch force main in order to accommodate future flows.

4.8 PROJECTS CURRENTLY PLANNED OR UNDERWAY

4.8.1 Bonita Estates Sanitary Sewer Improvements Project

The City is currently in the planning and design phase for a sanitary sewer improvements project in the Bonita Estates Subdivision. The project will install new 8-inch and 12-inch sewer lines to provide first time sewer service to approximately 49 existing residential homes. Total project cost is estimated to be approximately \$600,000.00. The project is being implemented with funds the City received under the US American Recovery and Reinvestment Act.

4.8.2 Morningside South Sanitary Sewer Improvements Project

The City is currently in the planning and design phase for a sanitary sewer improvements project in the Morningside South Subdivision. The project will install new 8-inch sewer lines along to provide first time sewer service to approximately 45 existing residential lots. Total project cost is estimated to be approximately \$1,000,000.00. The project is being implemented with funds the City received under the US American Recovery and Reinvestment Act.

4.8.3 Urban County 2021 Program Project

The design of this project is completed and the construction is currently in the bidding phase. The project includes providing new sewer service in the Country Living Estates No. 2 Subdivision, located off Alamo Road, just north of El Gato Road. The project will install a new 8-inch sewer line along Oneida Circle to provide first time sewer service to approximately twelve existing residential homes. Total project cost is estimated to be approximately \$225,000.00.

4.8.4 Lift Station No. 1 - Tower Road Lift Station Replacement Project

The City has submitted a project application for inclusion in the Texas Water Development Board's Intended Use Plan (IUP) for ranking and possible funding in the Texas Water Development Board Clean Water State Revolving Funds Program. The City is waiting on selection and funding determination from the Texas Water Development Board. The total cost of the project is currently estimated to be approximately \$2,500,000.00.

4.8.5 Relocation of Lift Station No.11 - Riverside Project

A subdivision developer is currently developing a large tract of adjacent vacant property (located at the Northeast corner of FM 495 and Tower Road). This area being proposed to be developed, currently has no sewer service. As part of their development, the current Lift Station No.11 is being planned to be relocated to an alternate site within their development area. The relocated lift station will be designed to account for existing and future sewer flows. Current Lift Station No. 11 will be abandoned and removed from its current site location.

4.8.6 Existing Wastewater Collection System Clay Line Replacement and Manhole Rehabilitation Project

The City has submitted a project information application for inclusion into the Texas Water Development Board's Intended Use Plan (IUP) for ranking and possible funding in the Texas Water Development Board Clean Water State Revolving Funds Program for the above project. The City is waiting on selection and funding determination from the Texas Water Development Board. The total project cost is estimated to be approximately \$3,470,000.00.

WASTEWATER SYSTEM MASTER PLAN

SECTION 5

5.1 SECTION INTRODUCTION

5.1.1 Scope of Section

This section presents an analysis of the City of Alamo's projected year 2027 and year 2037 wastewater systems and recommends wastewater system projects to be included in the City's 5-year and 15-year capital improvement plans. Capital costs for all recommended improvements, recommendations regarding scheduling, and funding of the recommended capital improvements are presented in Section 6 of this report.

5.1.2 Methodology for Analysis of Future Wastewater Systems

The City's sewer system is made up of a number of small sewer sheds in which service lines that are usually 6" and 8" in diameter connect to a lift station, or the service line collectors connect to a segment of 10", 12", 15", 18", or 24" diameter pipe which in turn flow into a lift station. Flows in these small sewer sheds exhibit short "transit times". Large sewer sheds will exhibit transit times measured in hours. The City sewer's "transit times" can be measured in minutes. Sewer sheds with short "transit times" can be accurately analyzed manually using the Manning equation to predict flows and to determine line sizes. The flow capacities of small systems do not differ appreciably than those provided by computer modeling. For preparation of this wastewater master planning document, the wastewater system for Alamo was evaluated by analytical methods.

- The capacity of the new wastewater treatment facility, scheduled for start-up in the early months of year 2023, was verified based on a review of the discharge permits, and the need for additional wastewater treatment capacity was determined for the 5-year and 15-year programs of improvements.
- Projected land use and wastewater service area maps for the 2027 through 2037 planning years were developed based on information provided by the City.

- Wastewater flows for the planning periods were estimated using the number of projected sewer connections, land use projections, and the wastewater service area maps.
- Skeletal piping systems were laid out for the land areas expected to be developed in the 5-year and 10-year land use projections. Alternative piping system layouts were evaluated to determine the most economical approach for each planning period.

5.1.3 Use of Wastewater System Master Plan Recommendations

The master plan is conceptual in nature and is intended to serve as a framework and guide for planning future improvements to the City's wastewater system. Each project recommended in the plan should be further developed by performing preliminary engineering prior to design and construction.

The following specific guidance on the use of the master plan is offered:

- The locations shown for proposed lift stations are approximate. The final locations of such facilities should be in the vicinity of the locations shown in Maps, but should be based on the availability and cost of land and access to power at the time a project is initiated.
- The locations of wastewater facilities and collection lines may also be influenced by environmental contamination such as leaking petroleum storage tanks or lines, old dump sites, and abandoned petroleum processing facilities. Environmental contamination was not considered in preparing the master plan and new contamination may develop following the issuance of the plan. Therefore, an environmental records review is recommended during the preliminary engineering phase of each project.
- The plan indicates the size of each proposed lift station, force main and gravity sewer, and the street on which it should be located. The final location of each collection line, in terms of which side of the street it is on and whether it is in the existing right-of-way or a new right-of-way, should be determined during the preliminary engineering phase of a project.
- The master plan assumes that proposed force mains will have 3 feet of cover unless otherwise noted in the project descriptions. The final depth of each line will depend on the depths of other existing utilities and will have to be determined during the preliminary engineering phase of a project. The class or strength of pipe will depend on the depth of the pipe and will also have to be determined during the preliminary engineering phase.

- The master plan recommends the capacity of each proposed lift station. The design capacity should be updated during the preliminary engineering phase of a project based on the final location of the lift station, its elevation, and the piping system around it.

5.2 LAND USE IN SEWER CCN BOUNDARY AREA

5.2.1 Existing Land Use

Mapping of the area of the City's existing land use was provided by City Staff.

Map No. 5-1 shows the 2022 existing land use within the City's Sewer CCN area.

5.2.2 Future Land Use

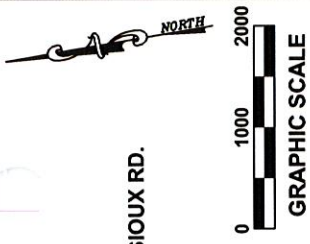
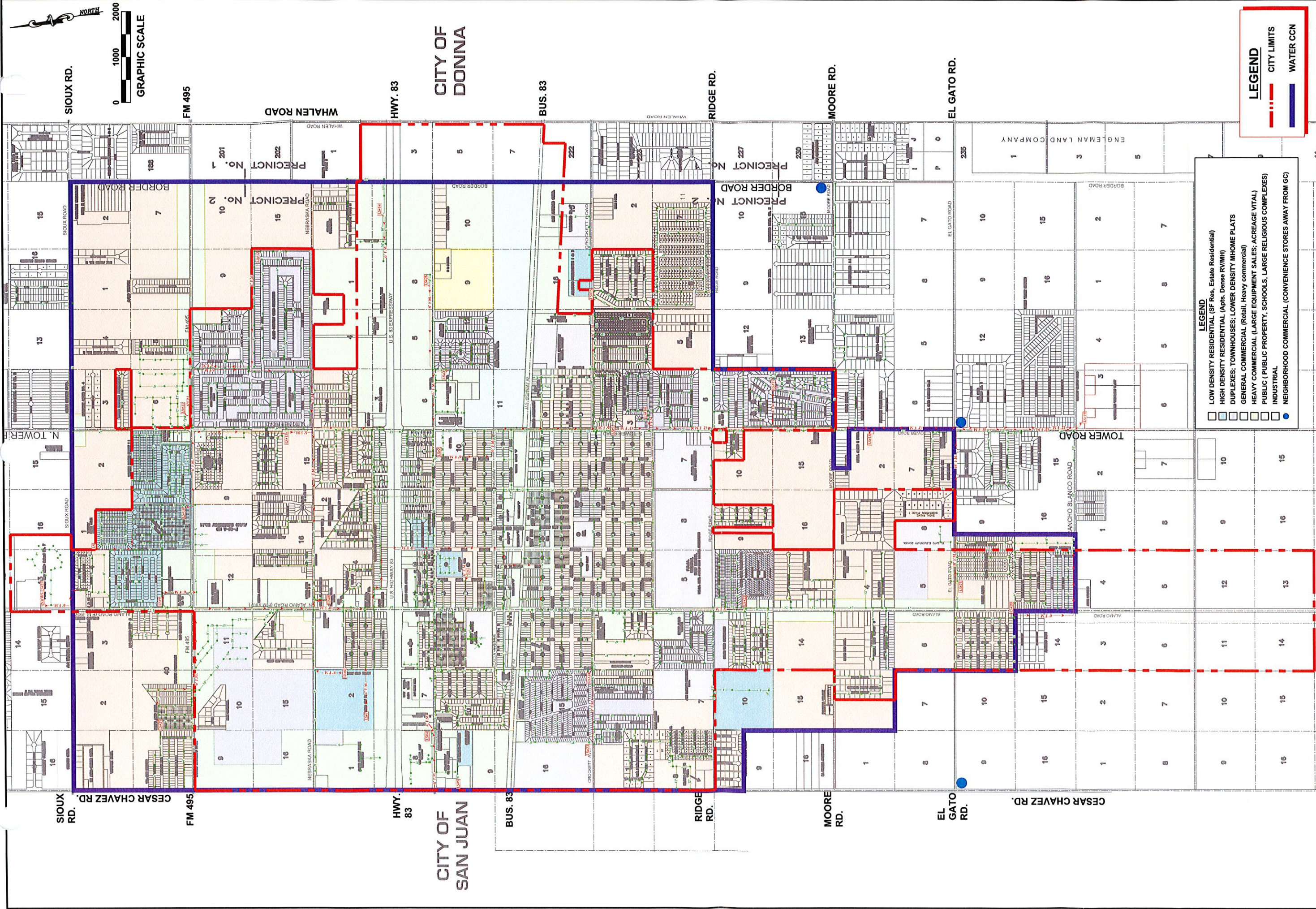
Future 5-year and 10-year land use analysis and projected land use was provided by the City's Planning Department. Future land use for the years 2027 and 2037 are based on the City's anticipated development projections.

The City of Alamo's future land use was reviewed and analyzed to identify the areas where additional wastewater infrastructure may be needed within the 5-year and 15-year planning periods.

The area analysis included both areas within the City's existing corporate city limits boundary and the existing wastewater Certificate of Convenience (CCN) boundary.

The analysis and projections were conducted by visually surveying the existing land zones and applications. The results of the analysis resulted with the future land use.

See **Map 5-2** showing projected land use areas for year 2027, and **Map 5-3** showing projected land use areas for year 2037, both provided within this section of the report.



- LEGEND**
- LOW DENSITY RESIDENTIAL (SF Res, Estate Residential)
 - HIGH DENSITY RESIDENTIAL (Apts, Dense RV/MH)
 - DUPLEXES; TOWNHOUSES; LOWER DENSITY HOME PLATS
 - GENERAL COMMERCIAL (Retail, Heavy commercial)
 - HEAVY COMMERCIAL (LARGE EQUIPMENT SALES; ACREAGE VITAL)
 - PUBLIC (PUBLIC PROPERTY, SCHOOLS, LARGE RELIGIOUS COMPLEXES)
 - INDUSTRIAL
 - NEIGHBORHOOD COMMERCIAL (CONVENIENCE STORES AWAY FROM GC)

- LEGEND**
- CITY LIMITS
 - WATER CCN

CITY OF ALAMO
 WATER AND WASTEWATER MASTER PLAN
 YEAR 2022 LAND USE MAP

CH
CRUZ - HOGAN
 ENGINEERS | PLANNERS
 McAllen | Harlingen | Weslaco
 TBPE FIRM REGISTRATION No.: F - 4860

MAP No.
5-1

CITY OF DONNA

CITY OF SAN JUAN

SIoux Rd.

FM 495

HWY. 83

BUS. 83

RIDGE Rd.

MOORE Rd.

EL GATO Rd.

SIoux Rd.

FM 495

HWY. 83

BUS. 83

RIDGE Rd.

MOORE Rd.

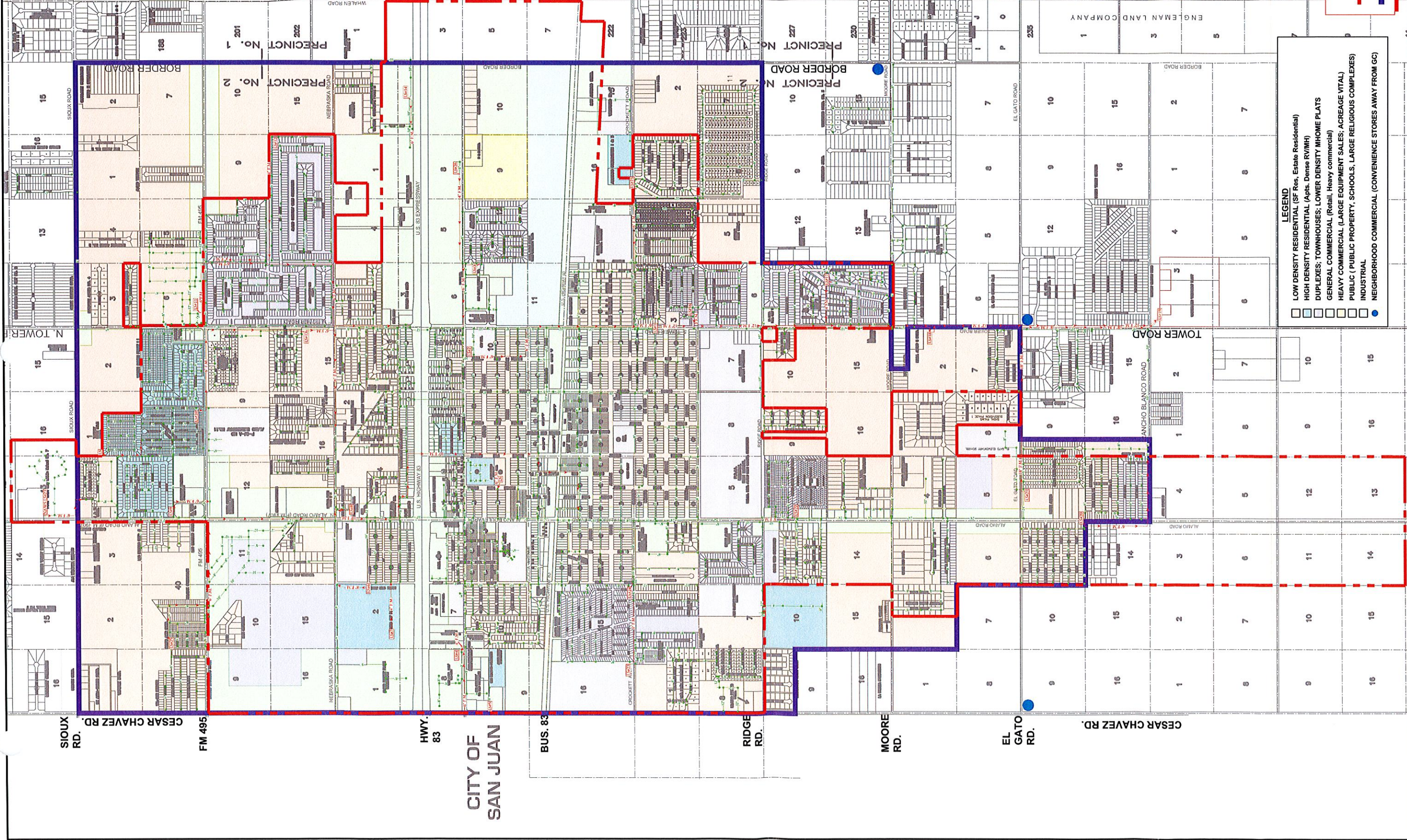
EL GATO Rd.

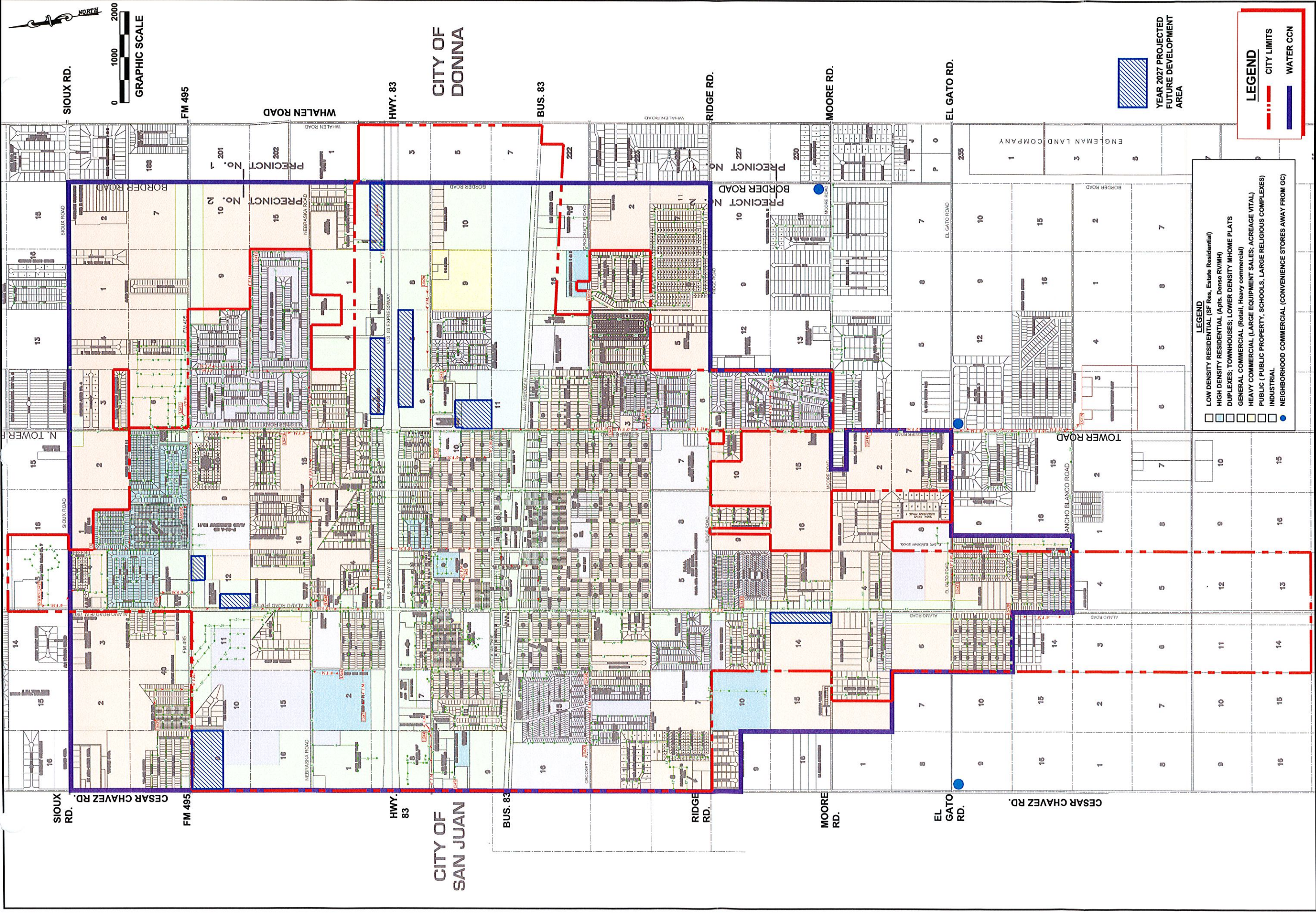
PRECINCT No. 1

PRECINCT No. 2

PRECINCT No. 27

PRECINCT No. 28





- LEGEND**
- LOW DENSITY RESIDENTIAL (SF Res, Estate Residential)
 - HIGH DENSITY RESIDENTIAL (Apts, Dense RV/MH)
 - DUPLEXES; TOWNHOUSES; LOWER DENSITY MHOME PLATS
 - GENERAL COMMERCIAL (Retail, Heavy commercial)
 - HEAVY COMMERCIAL (LARGE EQUIPMENT SALES; ACREAGE VITAL)
 - PUBLIC (PUBLIC PROPERTY, SCHOOLS, LARGE RELIGIOUS COMPLEXES)
 - INDUSTRIAL
 - NEIGHBORHOOD COMMERCIAL (CONVENIENCE STORES AWAY FROM GC)

- LEGEND**
- CITY LIMITS
 - WATER CCN

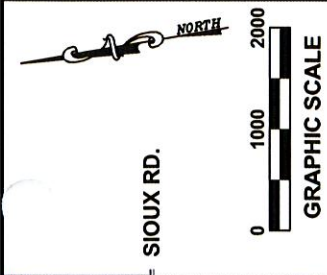
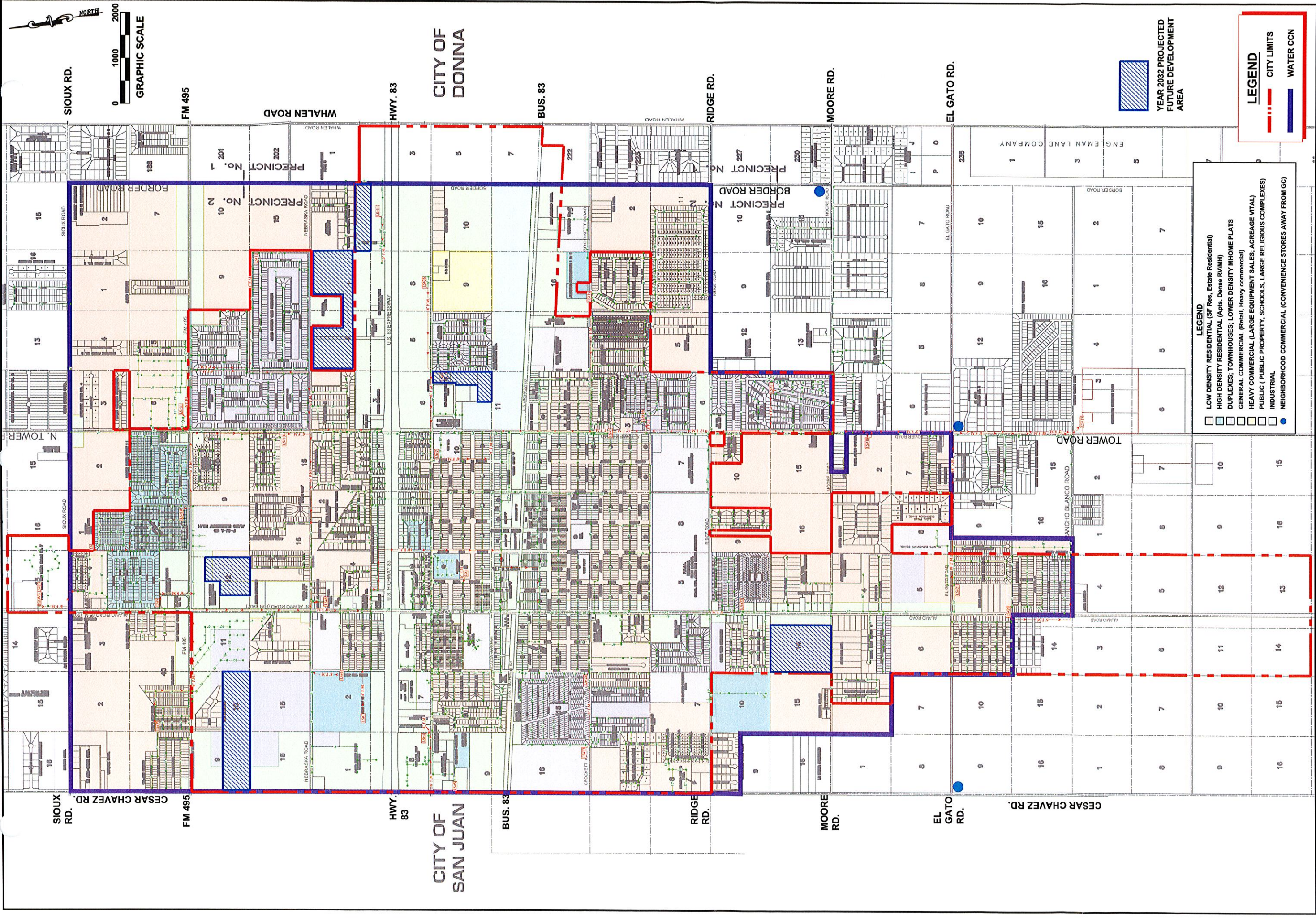


YEAR 2027 PROJECTED
FUTURE DEVELOPMENT
AREA

CITY OF ALAMO
WATER AND WASTEWATER MASTER PLAN
YEAR 2027 LAND USE MAP

CRUZ - HOGAN
ENGINEERS | PLANNERS
McAllen | Harlingen | Weslaco
TPE FIRM REGISTRATION No. : F - 4860

MAP No.
5-2



- LEGEND**
- LOW DENSITY RESIDENTIAL (SF Res, Estate Residential)
 - HIGH DENSITY RESIDENTIAL (Apts, Dense RV/MH)
 - DUPLEXES; TOWNHOUSES; LOWER DENSITY MH/HOME PLATS
 - GENERAL COMMERCIAL (Retail, Heavy commercial)
 - HEAVY COMMERCIAL (LARGE EQUIPMENT SALES; ACREAGE VITAL)
 - PUBLIC (PUBLIC PROPERTY, SCHOOLS, LARGE RELIGIOUS COMPLEXES)
 - INDUSTRIAL
 - NEIGHBORHOOD COMMERCIAL (CONVENIENCE STORES AWAY FROM GC)

- LEGEND**
- CITY LIMITS
 - WATER CCN

YEAR 2032 PROJECTED FUTURE DEVELOPMENT AREA

CITY OF ALAMO
 WATER AND WASTEWATER MASTER PLAN
 YEAR 2032 LAND USE MAP

CRUZ - HOGAN
 ENGINEERS | PLANNERS
 McAllen | Harlingen | Weslaco
 TBPE FIRM REGISTRATION No.: F - 4860

MAP No.
5-3

5.3 WASTEWATER CONNECTIONS AND FLOWS PROJECTIONS

5.3.1 Wastewater Connection Projections

Projected wastewater service connections for the period 2022 through 2042 are estimated based on the historical sewer service connections data. The number of projected wastewater connections includes the combined connections from the City of Alamo, NAWSC, and MHWSC.

Future connection projections are being based on a growth factor of 2.0% per year from Year 2022 through 2027 and a connection growth factor of 1.5 % from 2027 through 2042 due to the limiting of the sewer CCN area size and remaining developable areas.

Projected wastewater connections for the planning period year 2022 through 2042 are presented in **Table 5-1**.

**TABLE 5-1
PROJECTED SEWER SERVICE CONNECTIONS**

Year	Projected Sewer Connections	Year	Projected Sewer Connections
2022	5,880	2033	6,724
2023	5,962	2034	6,791
2024	6,057	2035	6,860
2025	6,149	2036	6,928
2026	6,241	2037	6,997
2027	6,334	2038	7,067
2028	6,397	2039	7,138
2029	6,461	2040	7,210
2030	6,526	2041	7,281
2031	6,591	2042	7,354
2032	6,657		

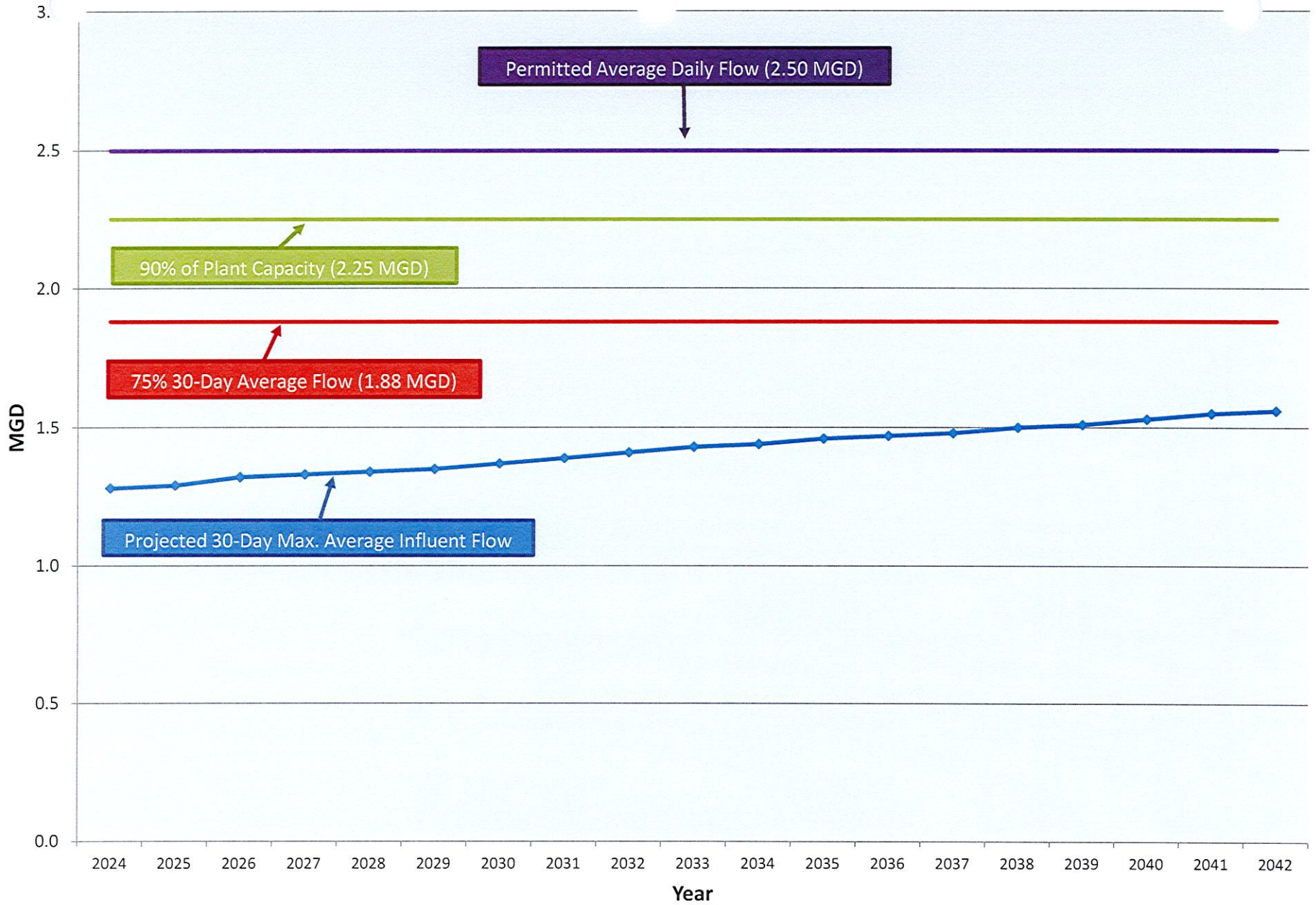
5.3.2 Wastewater Flow Projections

Projected wastewater service connections for the period 2022 through 2042 are estimated based on 210 gallons per day per wastewater service connection. The 210 gallons per day per connection is based on the average of the 30-day monthly average flow of 1.23 MGD experienced in year 2021. The flow projections over the next 20 years are based on number of the combined connections in the City of Alamo and adjacent water supply corporations which currently discharge into the City's wastewater collection system.

Projected wastewater treatment plant influent flows for the period 2022 through 2042 are presented in **Table 5-2** and **Figure 5-1**. Amounts are based on 212 gallons per connection per day that represent an average of the monthly historical flows.

**TABLE 5-2
WASTEWATER FLOW PROJECTIONS**

Year	Projected Average Monthly Flows (MGD)	Year	Projected Average Monthly Flows (MGD)
2022	1.25	2033	1.43
2023	1.26	2034	1.44
2024	1.28	2035	1.46
2025	1.29	2036	1.47
2026	1.32	2037	1.48
2027	1.33	2038	1.50
2028	1.34	2039	1.51
2029	1.35	2040	1.53
2030	1.37	2041	1.55
2031	1.39	2042	1.56
2032	1.41		



The flow projections are for maximum 30-day average flows based on the number of wastewater connection projections. TCEQ regulations require that planning and design for plant expansions be initiated when plant flows reach 75% of permitted plant flow capacity over 3 consecutive months and that construction of additional treatment capacity be initiated when plant flows reach 90% of plant design capacity. The wastewater treatment plant influent flow projections indicate that the plant will only reach approximately 60% of its permitted flow capacity in year 2042.

The Alamo Wastewater Treatment Plant effluent flows can be dependent on climatic conditions such as rainfall and droughts.

5.3.3 Treatment Plant Performance and Future Permit Requirements

As described in the previous section, the City's new wastewater treatment plant that is scheduled to commence operations in the early months of 2023, will be capable of continuing to treat wastewater for future projected flows without reaching its 90% permitted plant capacity over the next twenty years. No other treatment deficiencies have been documented and no future treatment deficiencies are expected with future flows and requirements, other than normal wear and tear of process equipment that may need to be replaced, updated, or rehabilitated.

5.4 HYDRAULIC ANALYSIS OF 2022 WASTEWATER COLLECTION SYSTEM

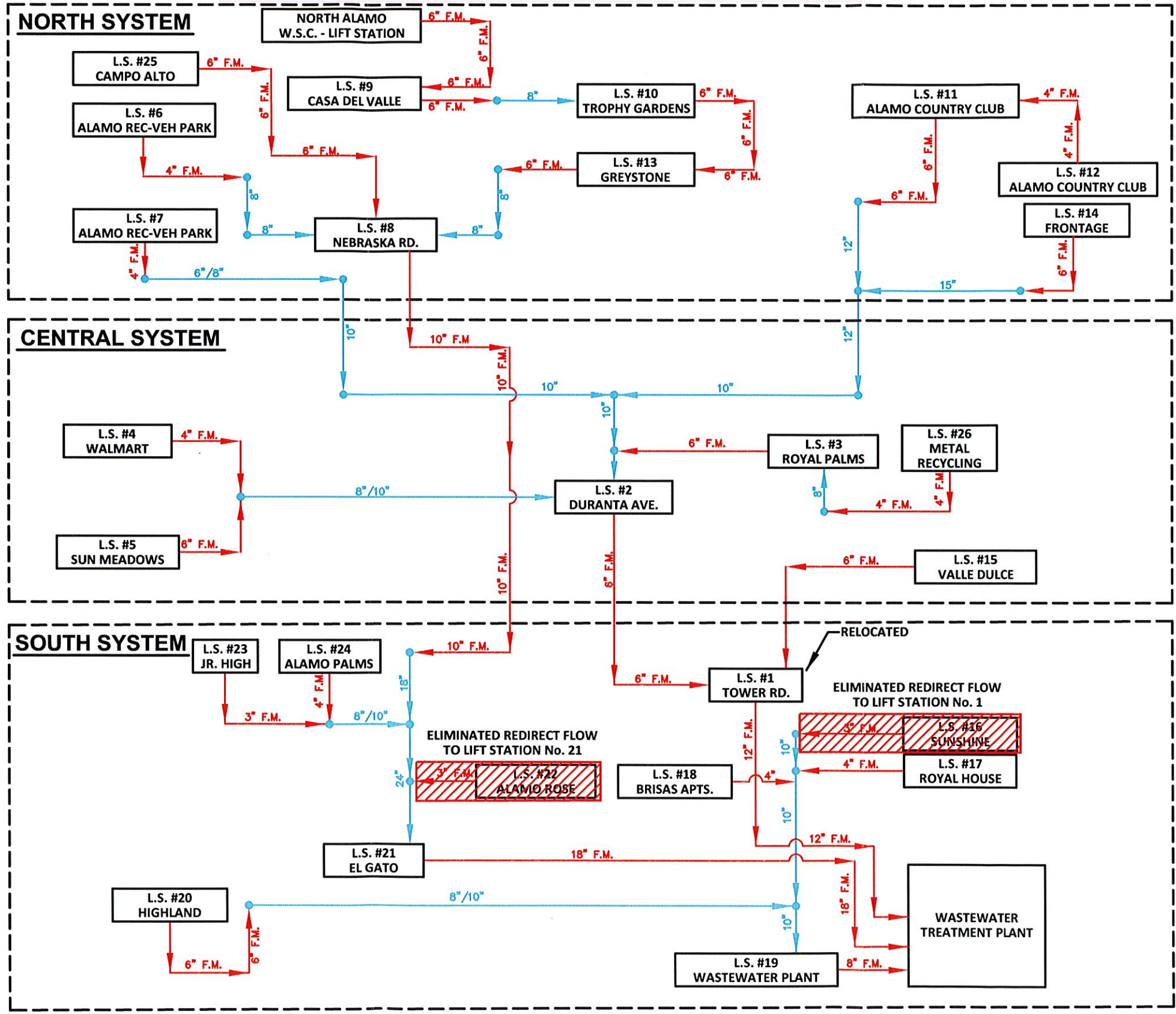
5.4.1 Introduction

Map 5-4 and **Map 5-5** show the proposed lift station flow diagram for the period 2022 to 2037. Based on analysis of the existing lift station locations and depths, it was determined that Lift Station Nos. 16 and 21 could be eliminated.

A schematic of the City's proposed lift station system is shown in **Figure 5-2**, for year 2027 through the year 2037. The basic strategy of the master plan for the 5-year and 15-year system configuration is to begin considering the possibility of eliminating existing lift stations to provide savings in operational and maintenance costs. Subsequent hydraulic analyses are based on the assumption that these recommended modifications to the wastewater collection flow scheme are implemented by the year 2027.

LEGEND

- 6" F.M. FORCE MAIN LINE
- 8" GRAVITY SANITARY SEWER LINE
- SEWER RECEIVING MANHOLE
- ▭ LIFT STATION



Dropbox (Cruz-Hogan-Consulting)\CHC Weslaco AutoCAD Files

5.4.2 Analysis of Lift Stations

A list of the City's existing principal lift stations, based on the percent of City-wide flow that each conveys to the wastewater treatment plant, is provided in **Table 5-3**.

The lack of available lift station and pump data for each lift station listed in **Table 5-4** limits the actual hydraulic analysis of the study and accurate description of the lift stations that will require future expansion or rehabilitation. For this reason, this report is limited to projecting future flows each lift station is expected to experience in the year 2027 and 2037.

Based on City's utility personnel, notwithstanding any current lift station deficiencies, all lift stations were adequately pumping the wastewater flows without any major problems. The only concerns expressed regarding flows were during extreme rainfall events that directly cause water inflows into the collection system lines and manholes.

The lift stations' projected firm capacities were determined from projected flows. The results of this analysis for the 2027 and 2037 system configuration are provided in **Table 5-3** and **Table 5-4**.

A summary of lift station operating parameters and recommended improvements for the 2027 system configuration are provided in **Table 5-5**; and recommended improvements for the 2037 system configuration are provided in **Table 5-6**.

This information presented should be integral to future lift station rehabilitations at the time when the City's lift station system is properly updated. It is highly recommended that the City conducts a thorough investigation to determine the pumping capacities of each lift station to adequately anticipate required capital improvements. This study, nonetheless, does provide analysis of the lift stations that are most critically affected by the current system deficiencies as well as the lift stations that will be detrimental to future growth.

**TABLE 5-3
PROJECTED WASTEWATER LIFT STATION SYSTEM FLOWS – 2027 SYSTEM**

	2022 Estimated Wastewater Connections	2027 Additional Connections	Total 2027 Wastewater Connections	Contributing Lift Stations	Contributing Connections	2027 Total Sub-System Connections	Average Flow (gals/day)	Max Flow (gals/day)	Flow as Percent of Total Flow
NORTH COLLECTION SYSTEM									
Main Lift Station:									
Lift Station No. 8	285	275	560	LS# 6, 13, 10, 9, 25, NAWSC	1,700	2,260	311,880	479,120	23.04%
Secondary Stations:									
Lift Station No. 9	530	0	530	NAWSC	355	885	122,130	187,620	9.02%
Lift Station No. 10	698	0	698	LS# 9, NAWSC	885	1,583	218,454	335,596	16.14%
Lift Station No. 13	161	0	161	LS# 10, 9, NAWSC	1,583	1,744	240,672	369,728	17.78%
Lift Station No. 11	289	0	289	LS# 12	241	530	73,140	112,360	5.40%
Sub-Stations:									
Lift Station No. 14	45	25	70	-	0	70	9,660	14,840	0.71%
Lift Station No. 12	289	0	289	-	0	289	39,882	61,268	2.95%
Lift Station No. 25	185	0	185	-	0	185	25,530	39,220	1.89%
Lift Station No. 6	127	0	127	-	0	127	17,526	26,924	1.29%
Lift Station No. 7	158	0	158	-	0	158	21,804	33,496	1.61%
NAWS Lift Station (equivalent)	355	0	355	-	0	355	48,990	75,260	3.62%
System Sub-Total	3,122	300	3,422				472,236	725,464	35%
CENTRAL COLLECTION SYSTEM									
Main Lift Station:									
Lift Station No. 2	1,065	75	1,140	LS# 7, 8, 13, 10, 9, NAWSC, 6, 25	2,499	3,639	502,182	771,468	37.10%
Secondary Stations:									
Lift Station No. 3	190	50	240	LS# 26	1	241	33,258	51,092	2.46%
Sub-Stations:									
Lift Station No. 26	1	0	1	-	-	1	138	212	0.01%
Lift Station No. 15	497	0	497	-	-	497	68,586	105,364	5.07%
Lift Station No. 4	4	0	4	-	-	4	552	848	0.04%
Lift Station No. 5	4	0	4	-	-	4	552	848	0.04%
System Sub-Total	1,761	125	1,886				260,268	399,832	19%
SOUTH COLLECTION SYSTEM									
Main Lift Station:									
Lift Station No. 1	1,049	125	1,174	LS# 2, 15	4,061	5,235	722,430	1,109,820	53.37%
Lift Station No. 21	745	329	1,074	LS# 8, 22, 23, 24, 8	2,751	3,825	527,850	810,900	38.99%
Secondary Stations:									
Lift Station No. 19	906	-	906	LS# 8, 20, 16, 17	646	1,552	214,176	329,024	15.82%
Sub-Stations:									
Lift Station No. 16	230	0	230	-	0	230	31,740	48,760	2.34%
Lift Station No. 17	205	0	205	-	0	205	28,290	43,460	2.09%
Lift Station No. 18	6	0	6	-	0	6	828	1,272	0.06%
Lift Station No. 20	211	0	211	-	0	211	29,118	44,732	2.15%
Lift Station No. 22	160	0	160	-	0	160	22,080	33,920	1.63%
Lift Station No. 23	362	0	362	-	0	362	49,956	76,744	3.69%
Lift Station No. 24	173	0	173	-	0	173	23,874	36,676	1.76%
System Sub-Total	4,047	454	4,501				621,138	778,673	46%
TOTAL FLOW INTO WASTEWATER TREATMENT PLANT	8,930	879	9,809				1,353,642	1,903,969	100%

Note:

* Includes 350 NAWSC Equivalent Connections

** Includes all connections on master accounts

(1) Average 30 Day Flow = 138 gal/con/day

(2) Maximum Day Flow = 212 gal/con/day

**TABLE 5-4
PROJECTED WASTEWATER LIFT STATION SYSTEM FLOWS – 2037 SYSTEM**

	2027 Estimated Wastewater Connections	2037 Additional Connections	Total 2037 Wastewater Connections	Contributing Lift Stations	Contributing Connections	2037 Total Sub-System Connections	Average Flow (gals/day)	Max Flow (gals/day)	Flow as Percent of Total Flow
NORTH COLLECTION SYSTEM									
Main Lift Station:									
Lift Station No. 8	560	188	748	LS# 6, 13, 10, 9, 25, NAWSC	1,700	2,448	337,824	518,976	23.38%
Secondary Stations:									
Lift Station No. 9	530	0	530	NAWSC	355	885	122,130	187,620	8.45%
Lift Station No. 10	698	0	698	LS# 9, NAWSC	885	1,583	218,454	335,596	15.12%
Lift Station No. 13	161	0	161	LS# 10, 9, NAWSC	1,583	1,744	240,672	369,728	16.65%
Lift Station No. 11	289	0	289	LS# 12	241	530	73,140	112,360	5.06%
Sub-Stations:									
Lift Station No. 14	70	0	70	-	0	70	9,660	14,840	0.67%
Lift Station No. 12	289	0	289	-	0	289	39,882	61,268	2.76%
Lift Station No. 25	185	0	185	-	0	185	25,530	39,220	1.77%
Lift Station No. 6	127	0	127	-	0	127	17,526	26,924	1.21%
Lift Station No. 7	158	0	158	-	0	158	21,804	33,496	1.51%
NAWS Lift Station (equivalent)	355	0	355	-	0	355	48,990	75,260	3.39%
System Sub-Total	3,422	188	3,610				498,180	765,320	34%
CENTRAL COLLECTION SYSTEM									
Main Lift Station:									
Lift Station No. 2	1,140	225	1,365	LS# 7, 8, 13, 10, 9, NAWSC, 6, 25	2,499	3,864	533,232	819,168	36.90%
Secondary Stations:									
Lift Station No. 3	240	-	240	LS# 26	1	241	33,258	51,092	2.30%
Sub-Stations:									
Lift Station No. 26	1	50	51	-	-	51	7,038	10,812	0.49%
Lift Station No. 15	497	0	497	-	-	497	68,586	105,364	4.75%
Lift Station No. 4	4	0	4	-	-	4	552	848	0.04%
Lift Station No. 5	4	0	4	-	-	4	552	848	0.04%
System Sub-Total	1,886	275	2,161				298,218	458,132	21%
SOUTH COLLECTION SYSTEM									
Main Lift Station:									
Lift Station No. 1	1,174	-	1,174	LS# 2, 15	4,061	5,235	722,430	1,109,820	49.99%
Lift Station No. 21	1,074	200	1,274	LS# 8, 22, 23, 24, 8	2,751	4,025	555,450	853,300	38.44%
Secondary Stations:									
Lift Station No. 19	906	-	906	LS# 8, 20, 16, 17	646	1,552	214,176	329,024	14.82%
Sub-Stations:									
Lift Station No. 16	230	0	230	-	0	230	31,740	48,760	2.20%
Lift Station No. 17	205	0	205	-	0	205	28,290	43,460	1.96%
Lift Station No. 18	6	0	6	-	0	6	828	1,272	0.06%
Lift Station No. 20	211	0	211	-	0	211	29,118	44,732	2.01%
Lift Station No. 22	160	0	160	-	0	160	22,080	33,920	1.53%
Lift Station No. 23	362	0	362	-	0	362	49,956	76,744	3.46%
Lift Station No. 24	173	0	173	-	0	173	23,874	36,676	1.65%
System Sub-Total	4,501	200	4,701				648,738	813,273	45%
TOTAL FLOW INTO WASTEWATER TREATMENT PLANT	9,809	663	10,472				1,445,136	2,036,725	100%

Note:

- * Includes 350 NAWSC Equivalent Connections
- ** Includes all connections on master accounts
- (1) Average 30 Day Flow = 138 gal/con/day
- (2) Maximum Day Flow = 212 gal/con/day

**TABLE 5-5
LIFT STATION OPERATING PARAMETERS – 2027 SYSTEM**

Lift Station Wastewater Service Area	Max. 30 Day Flow (gpd)	Design Flow (gpm)	Required Lift Station Pumping Capacity (gpm)	Comments & Recommendations Regarding Pumping Capacities
Lift Station No. 1	722,430	500	1,510	If station is not replaced on 2027 CIP, Additional Pumping Capacity not Required for Modifications for projected 2027 flows. Existing lift station pumps rated at 1,500 gpm .
Lift Station No. 2	502,182	349	1,046	Additional Pumping Capacity Required for Modifications for projected 2027 flows.
Lift Station No. 3	33,258	33	120	Additional Pumping Capacity Required for Modifications for projected 2027 flows.
Lift Station No. 4	552	-	125	
Lift Station No. 5	552	-	125	
Lift Station No. 6	17,526	12	(125)	
Lift Station No. 7	21,804	15	(125)	
Lift Station No. 8	311,880	217	651	Additional Pumping Capacity Required for Modifications for projected 2027 flows.
Lift Station No. 9	122,130	85	255	
Lift Station No. 10	218,454	152	200	
Lift Station No. 11	73,140	126	380	
Lift Station No. 12	39,882	28	85 (125)	
Lift Station No. 13	240,672	167	500	
Lift Station No. 14	9,660	7	21 (125)	
Lift Station No. 15	68,586	48	145	
Lift Station No. 16	31,740	22	66 (125)	
Lift Station No. 17	28,290	20	60 (125)	
Lift Station No. 18	828	-	(125)	
Lift Station No. 19	214,176	149	447	
Lift Station No. 20	29,118	20	60 (125)	
Lift Station No. 21	527,850	366	1098	
Lift Station No. 22	22,080	-	(125)	
Lift Station No. 23	49,956	35	105 (125)	
Lift Station No. 24	23,874	17	50 (125)	
Lift Station No. 25	25,530	18	53 (125)	Additional Pumping Capacity Required for Modifications for projected 2027 flows.
Lift Station No. 26		-	(125)	

Note: (1) Average daily flow based on 138 gal/con/day and includes flows contributed by upstream lift stations.

(2) Peak flow based on an average-to-peak flow ratio of 2.5 & II ratio of 1.2

(3) For conceptual design only. Not to be used for specifying or purchasing equipment.

**TABLE 5-6
LIFT STATION OPERATING PARAMETERS – 2037 SYSTEM**

<i>Lift Station Wastewater Service Area</i>	<i>Max. 30 Day Flow (gpd)</i>	<i>Estimated Design Flow (gpm)</i>	<i>Required Lift Station Pumping Capacity (gpm)</i>	<i>Comments & Recommendations</i>
<i>Lift Station No. 1</i>	<i>722,430</i>	<i>536</i>	<i>1,610</i>	<i>If station is not replaced in 2027 CIP. Additional Pumping Capacity is Required for Modifications for projected 2037 flows. Existing station rated at 1,500 gpm</i>
<i>Lift Station No. 2</i>	<i>533,232</i>	<i>370</i>	<i>1,110</i>	<i>Additional Pumping Capacity Required for Modifications for projected 2037 flows.</i>
<i>Lift Station No. 3</i>	<i>33,258</i>	<i>33</i>	<i>120</i>	
<i>Lift Station No. 4</i>	<i>552</i>	<i>-</i>	<i>125</i>	
<i>Lift Station No. 5</i>	<i>552</i>	<i>-</i>	<i>125</i>	
<i>Lift Station No. 6</i>	<i>17,526</i>	<i>12</i>	<i>(125)</i>	
<i>Lift Station No. 7</i>	<i>21,804</i>	<i>15</i>	<i>(125)</i>	
<i>Lift Station No. 8</i>	<i>337,824</i>	<i>235</i>	<i>704</i>	<i>Additional Pumping Capacity Required for Modifications for projected 2037 flows.</i>
<i>Lift Station No. 9</i>	<i>122,130</i>	<i>85</i>	<i>255</i>	
<i>Lift Station No. 10</i>	<i>218,454</i>	<i>152</i>	<i>200</i>	
<i>Lift Station No. 11</i>	<i>73,140</i>	<i>126</i>	<i>380</i>	
<i>Lift Station No. 12</i>	<i>39,882</i>	<i>28</i>	<i>85 (125)</i>	
<i>Lift Station No. 13</i>	<i>240,672</i>	<i>167</i>	<i>500</i>	
<i>Lift Station No. 14</i>	<i>9,660</i>	<i>7</i>	<i>(125)</i>	
<i>Lift Station No. 15</i>	<i>68,586</i>	<i>48</i>	<i>145</i>	
<i>Lift Station No. 16</i>	<i>31,740</i>	<i>22</i>	<i>66 (125)</i>	
<i>Lift Station No. 17</i>	<i>28,290</i>	<i>20</i>	<i>60 (125)</i>	
<i>Lift Station No. 18</i>	<i>828</i>	<i>-</i>	<i>(125)</i>	
<i>Lift Station No. 19</i>	<i>214,176</i>	<i>149</i>	<i>447</i>	
<i>Lift Station No. 20</i>	<i>29,118</i>	<i>20</i>	<i>60 (125)</i>	
<i>Lift Station No. 21</i>	<i>555,450</i>	<i>385</i>	<i>1,157</i>	<i>Additional Pumping Capacity Required for Modifications for projected 2037 flows.</i>
<i>Lift Station No. 22</i>	<i>22,080</i>	<i>15</i>	<i>(125)</i>	
<i>Lift Station No. 23</i>	<i>49,956</i>	<i>35</i>	<i>105 (125)</i>	
<i>Lift Station No. 24</i>	<i>23,874</i>	<i>17</i>	<i>50 (125)</i>	
<i>Lift Station No. 25</i>	<i>25,530</i>	<i>18</i>	<i>53 (125)</i>	
<i>Lift Station No. 26</i>	<i>7,038</i>	<i>-</i>	<i>(125)</i>	

Note:(1) Average daily flow based on 138 gal/con/day and includes flows contributed by upstream lift stations.

(2) Peak flow based on an average-to-peak flow ratio of 2.5 & II ratio of 1.2

(3) For conceptual design only. Not to be used for specifying or purchasing equipment.

5.4.3 Consolidation and Elimination of Existing Lift Stations

The City currently operates 26 lift stations located throughout the wastewater collection system. Of the 26 existing lift stations, only 5 could be considered as main lift stations, with the remaining 21 lift stations being smaller in size. The distances from lift station to lift station and depths of existing lift stations were factors used to determine the possible elimination and consolidation of the existing lift stations.

The overall layout of the existing lift station was analyzed to determine if any of the smaller lift stations could be eliminated, if practical, from the wastewater collection system and have the flows of those smaller lift stations diverted and consolidated with other larger lift stations.

It was determined that the following smaller lift stations could be eliminated, and flows be redirected to other nearby larger lift stations.

- Lift Station No.16 (Sunshine) could be decommissioned and flows be directed through new gravity sewer main lines to Lift Station No. 1 (Tower Road). This would need to be done only when Lift Station No. 1 is relocated.
- Lift Station No. 20 (Highland) could be decommissioned and flows directed through new gravity main lines to Lift Station No. 21.

See **Figure 5-2** for the Lift Station Flow Diagram that shows the future consolidation of and elimination of Lift Station Nos. 16 and 21.

See **Map 5-4** and **Map 5-5**, which show the future overall lift station flow diagram.

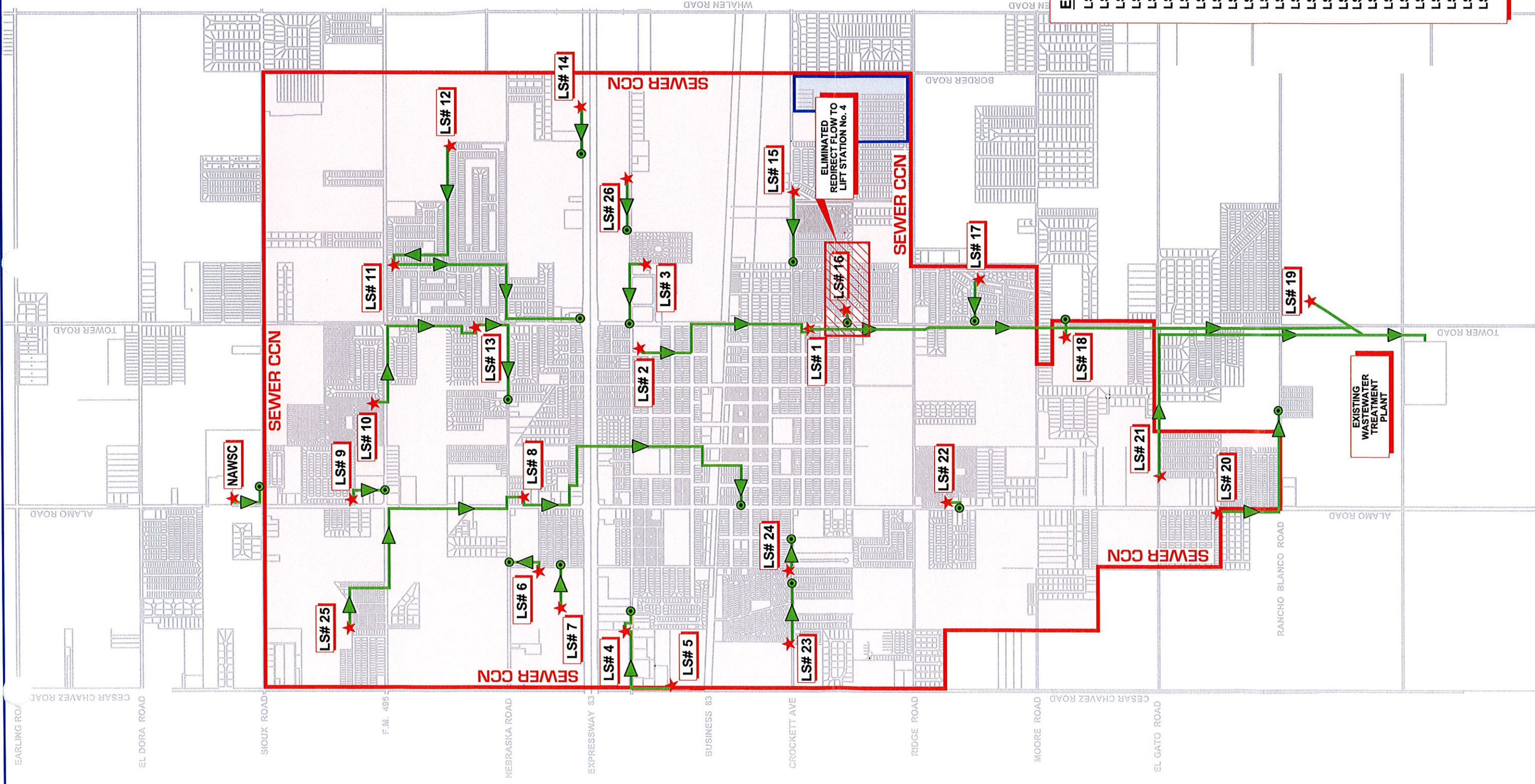
5.4.4 Analysis of Force Mains

No lift stations are recommended to be decommissioned based on the data collected, current locations of lift stations, accessibility between lift stations, and on projected future flows. However, it is recommended that the City continue to evaluate the entire wastewater collection system lift stations operations in the future.

An analysis of the existing force mains and a summary of the lift station parameters and projected flows for the years 2027 and 2037 system configurations are provided in **Table 5-7** and **Table 5-8**. It was determined that many of the smaller lift station force mains have velocities lower than the TCEQ required minimum velocity of 3.0 ft/sec. Also based on analysis, none of the existing force mains show indications of high velocities or limitations on additional flows projected in years 2027 and 2037.



GRAPHIC SCALE



- EXISTING LIFT STATIONS**
- LS# 1 TOWER RD.
 - LS# 2 DURANTA AVE.
 - LS# 3 ROYAL PALMS
 - LS# 4 WALMART
 - LS# 5 SUN MEADOWS
 - LS# 6 ALAMO REC-VEH PARK (EAST)
 - LS# 7 ALAMO REC-VEH PARK
 - LS# 8 NEBRASKA RD.
 - LS# 9 CASA DEL VALLE
 - LS# 10 TROPHY GARDENS
 - LS# 11 RIVERSIDE
 - LS# 12 ALAMO COUNTRY CLUB
 - LS# 13 GREYSTONE
 - LS# 14 FRONTAGE
 - LS# 15 VALLEY DULCE
 - LS# 16 SUNSHINE (ELIMINATE)
 - LS# 17 ROYAL HOUSE
 - LS# 18 LAS BRISAS APTS.
 - LS# 19 WASTEWATER PLANT
 - LS# 20 HIGHLAND
 - LS# 21 EL GATO
 - LS# 22 ALAMO ROSE
 - LS# 23 JR. HIGH
 - LS# 24 ALAMO PALMS
 - LS# 25 CAMPO ALTO
 - LS# 26 METAL RECYCLING

- LEGEND**
- EXISTING DRAIN DITCH
 - EXISTING FORCE MAIN
 - EXISTING LIFT STATIONS

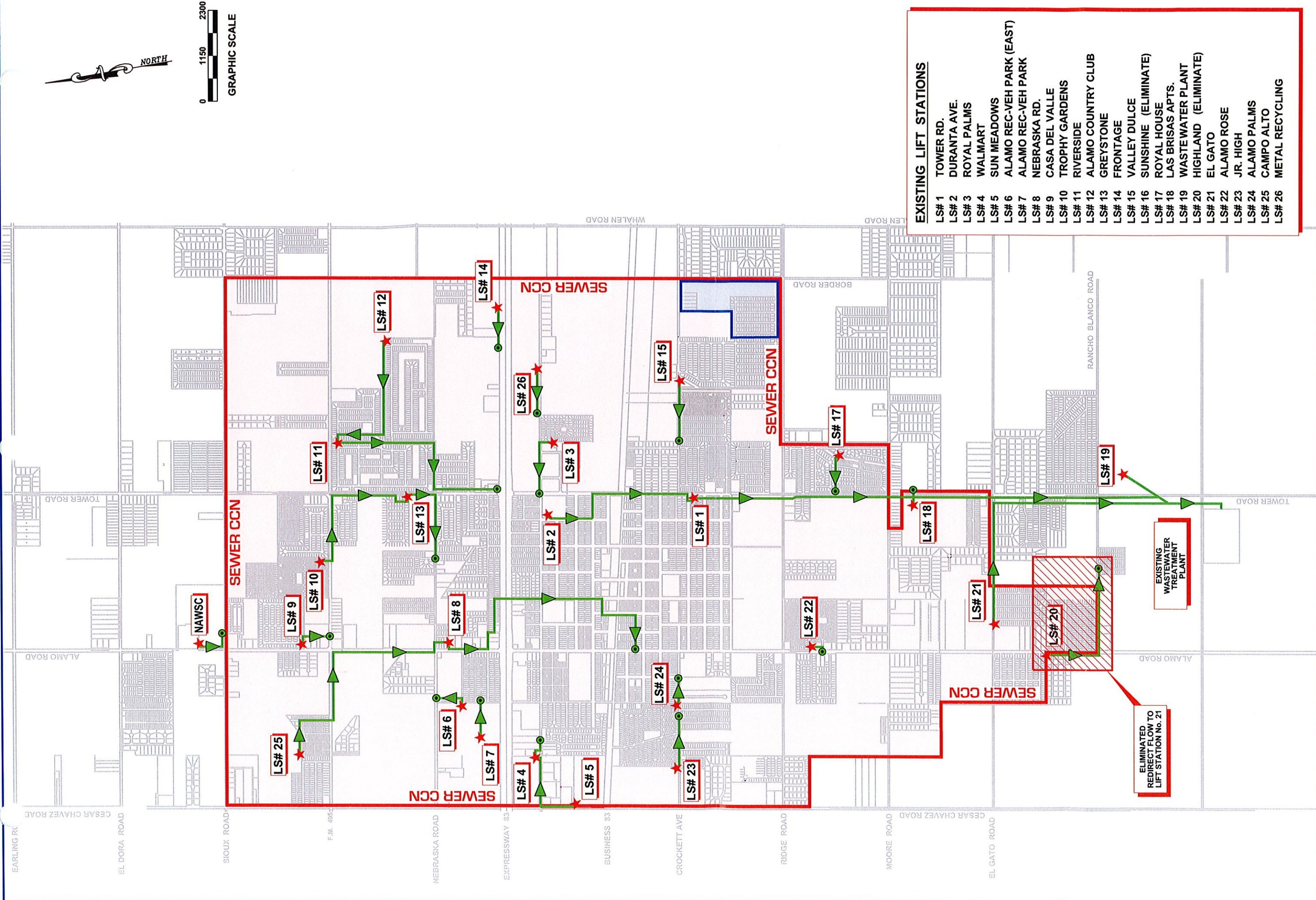
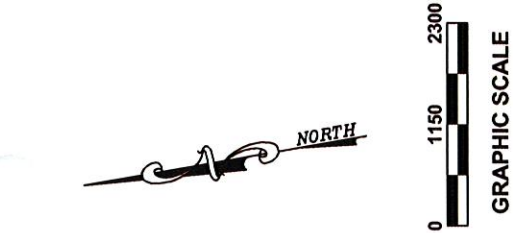
CITY OF ALAMO
 WATER AND WASTEWATER MASTER PLAN
 2027 LIFT STATION
 SCHEMATIC FLOW DIAGRAM



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MAP No.

5-4



- EXISTING LIFT STATIONS**
- LS# 1 TOWER RD.
 - LS# 2 DURANTA AVE.
 - LS# 3 ROYAL PALMS
 - LS# 4 WALMART
 - LS# 5 SUN MEADOWS
 - LS# 6 ALAMO REC-VEH PARK (EAST)
 - LS# 7 ALAMO REC-VEH PARK
 - LS# 8 NEBRASKA RD.
 - LS# 9 CASA DEL VALLE
 - LS# 10 TROPHY GARDENS
 - LS# 11 RIVERSIDE
 - LS# 12 ALAMO COUNTRY CLUB
 - LS# 13 GREYSTONE
 - LS# 14 FRONTAGE
 - LS# 15 VALLEY DULCE
 - LS# 16 SUNSHINE (ELIMINATE)
 - LS# 17 ROYAL HOUSE
 - LS# 18 LAS BRISAS APTS.
 - LS# 19 WASTE WATER PLANT
 - LS# 20 HIGHLAND (ELIMINATE)
 - LS# 21 EL GATO
 - LS# 22 ALAMO ROSE
 - LS# 23 JR. HIGH
 - LS# 24 ALAMO PALMS
 - LS# 25 CAMPO ALTO
 - LS# 26 METAL RECYCLING

- LEGEND**
- EXISTING DRAIN DITCH
 - EXISTING FORCE MAIN
 - EXISTING LIFT STATIONS
 - LS# 00**

CITY OF ALAMO
 WATER AND WASTEWATER MASTER PLAN
 2032 LIFT STATION
 SCHEMATIC FLOW DIAGRAM



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Due to the unavailability of existing lift station pump data information records and lift station pumping capacities at the City, this report recommends further analysis of the existing lift stations to fully determine the accuracy of the presented velocities. For the purpose of this report, no action is recommended, and the systems should continue to remain fully operational.

The force main analysis was done as a means of eliminating the interconnection of force mains in the collection system and to upgrade force mains that are undersized for current and future flows.

The results of this analysis and a summary of lift station operating parameters and recommended improvements for year 2022 through year 2037 system configuration are provided in **Table 5-7** and **Table 5-8**.

According to City Staff, the most significant problems with the existing lift station force mains involves the Lift Station No. 2 (Duranta Avenue) force main leading to existing Lift Station No. 1 (Tower Road). The City reports that the existing pumps of this station are adequate. However, the lift station's force main becomes overloaded during peak wet weather flow periods, especially during large rain events. Most of the wastewater flows from both the North System and Central System lift station flow into Lift Station No. 2. The existing force main is currently a 6-inch line and it is recommended that it be replaced with a 10-inch line in order to accommodate future flows.

**TABLE 5-7
WASTEWATER FORCE MAIN ANALYSIS – 2027 SYSTEM**

Lift Station Wastewater Force Main Pipe Section	Force Main Approximate Length (lf)	Force Main Diameter (Inches)	Required Lift Station Pumping Firm capacity (gpm)	Force Main Velocity With Smallest Pump Operating (ft/sec)	Force Main Velocity With Smallest Pump Operating (ft/sec)
TECQ Design Criteria		4 inches Minimum Diameter		Min 3 ft/sec (2 pump station)	Min 2 ft/sec (3 pump station)
<u>NORTH COLLECTION SYSTEM</u>					
L.S. No. 25 to L.S. No. 8	6,300	6	125	4.79	–
L.S. No. 6 to L.S. No. 8	600	4	125		–
L.S. No. 7 to L.S. No. 2	1,100	4	125		–
NAWSC L.S. to L.S. 9	1,000	6	-		–
L.S. No. 9 to L.S. No. 10	950	6	255		–
L.S. No. 10 to L.S. No. 13	3,800	6	200		–
L.S. No. 13 to L.S. No. 8	2,600	6	500		–
L.S. No. 11 to L.S. No. 2	3,800	6	380		–
L.S. No. 12 to L.S. No. 11	3,500	4	125		–
L.S. No. 14 to L.S. No. 2	1,200	6	125		–
<u>CENTRAL COLLECTION SYSTEM</u>					
L.S. No. 4 to L.S. No. 2	75	4	125		–
L.S. No. 5 to L.S. No. 2	1,800	6	125		–
L.S. No. 3 to L.S. No. 2	1,450	6	125		–
L.S. No. 26 to L.S. No. 3	1,900	4	125		–
L.S. No. 2 to L.S. No. 1	4,400	3	1,100		–
L.S. No. 15 to L.S. No. 1	1,600	6	145		–
<u>SOUTH COLLECTION SYSTEM</u>					
L.S. No. 23 to L.S. No. 21	1,400	3	125		–
L.S. No. 24 to L.S. No. 21	85	4	125		–
L.S. No. 22 to L.S. No. 21	75	3	125		–
L.S. No. 18 to L.S. No. 19	50	4	125		–
L.S. No. 16 to L.S. No. 19	400	3	125		–
L.S. No. 17 to L.S. No. 19	1,150	4	125		–
L.S. No. 20 to L.S. No. 19	2,800	6	125		–
L.S. No. 21 to WWTP	6,500	18	125	–	–
L.S. No. 1 to WWTP	11,200	12	1,610		–
L.S. No. 19 to WWTP	650	8	685		–

Note: Force mains shown are for directional purposes. Force mains above discharge directly into collection manholes or into lift stations. See wastewater collection maps for discharge locations

- (1) TCEQ criterion minimum force main velocity of 3 ft/sec is not satisfied.
- (2) Two pumps in operation are required to achieve these velocities.

**TABLE 5-8
WASTEWATER FORCE MAIN ANALYSIS – 2037 SYSTEM**

Lift Station Wastewater Force Main Pipe Section	Force Main Length (lf)	Force Main Diameter (Inches)	Required Lift Station Pumping Firm capacity (gpm)	Force Main Velocity With Smallest Pump Operating (ft/sec)	Force Main Velocity With Smallest Pump Operating (ft/sec)
TECQ Design Criteria		4 inches Minimum Diameter		Min 3 ft/sec (2 pump station)	Min 2 ft/sec (3 pump station)
<u>NORTH COLLECTION SYSTEM</u>					
L.S. No. 25 to L.S. No. 8	6,300	6	125	4.79	–
L.S. No. 6 to L.S. No. 8	600	6	125		–
L.S. No. 7 to L.S. No. 2	1,100	4	125		–
NAWSC L.S. to L.S. 9	1,000	6	-		–
L.S. No. 9 to L.S. No. 10	950	6	255		–
L.S. No. 10 to L.S. No. 13	3,800	6	200		–
L.S. No. 13 to L.S. No. 8	2,600	6	500		–
L.S. No. 11 to L.S. No. 2	3,800	6	380		–
L.S. No. 12 to L.S. No. 11	3,500	4	125		–
L.S. No. 14 to L.S. No. 2	1,200	6	125		–
<u>CENTRAL COLLECTION SYSTEM</u>					
L.S. No. 4 to L.S. No. 2		4	125		–
L.S. No. 5 to L.S. No. 2		6	125		–
L.S. No. 3 to L.S. No. 2		6	125		–
L.S. No. 26 to L.S. No. 3		4	125		–
L.S. No. 2 to L.S. No. 1		3	1,100		–
L.S. No. 15 to L.S. No. 1		6	145		–
<u>SOUTH COLLECTION SYSTEM</u>					
L.S. No. 23 to L.S. No. 21		6	125		–
L.S. No. 24 to L.S. No. 21		4	125		–
L.S. No. 22 to L.S. No. 21		3	125		–
L.S. No. 18 to L.S. No. 19		4	125		–
L.S. No. 16 to L.S. No. 19		3	125		–
L.S. No. 17 to L.S. No. 19		4	125		–
L.S. No. 20 to L.S. No. 19		6	125		–
L.S. No. 21 to WWTP		18	125	–	–
L.S. No. 1 to WWTP		12	1,610		–
L.S. No. 19 to WWTP		8	685		–

Notes: Force mains shown are for directional purposes. Force mains above discharge directly into collection manholes or into lift stations. See wastewater collection maps for discharge locations

(1) TCEQ criterion minimum force main velocity of 3 ft/sec is not satisfied.

(2) Two pumps in operation are required to achieve these velocities

5.4.5 Analysis of Gravity Sewers

Existing gravity sewers are predominantly 6-inch and 8-inch lines and generally do not serve as major conveyance lines. The conceptual design of the proposed sewers is based on meeting TCEQ minimum requirements for wastewater flow velocity and pipe slope. Based on interviews and discussions with City utility personnel, no areas of sewer line surges or sewer spills were of concern during dry weather conditions. However, during rain events, the wastewater collection system does overflow due to storm water inflows and infiltration. Storm water inflow and infiltration are generally caused by deteriorating sewer gravity main lines and manholes.

Also, manhole rim and pipe invert elevation data were not available. Therefore, this study could not analyze the hydraulic capacity of the City's existing sewers.

However, the existing gravity sewer system was analyzed to identify old and inadequate pipelines and manholes that are experiencing system degradation and deterioration. Many of these lines are constructed using vitrified clay and manholes using brick construction. Locations of the deteriorating main gravity line systems are provided in **Table 5-9**.

The report recommends that the sewer lines be rehabilitated using "Pipe Bursting" technology. The "Pipe Bursting" method will replace the lines by fracturing the existing deteriorating pipelines with an internal mechanical force while pulling the replacement pipe into place. Using this method eliminates the need to remove existing pipe lines with open cut excavation. Manhole rehabilitation includes the use of concrete "shot-creting" and spraying an epoxy liner material onto the existing manhole walls. This procedure adds structural integrity to the existing manholes without having to replace the manholes. These improvement or rehabilitation projects are recommended separately in the 5- and 15-year capital improvements plan.

**TABLE 5-9
EXISTING GRAVITY SEWER LINES REQUIRING REHABILITATION**

Area Location	Existing 6" Line Replaced with 8" (LF)	Existing 8" Line Replaced with 8" (LF)	Existing 10" Line Replaced with 10" (LF)	Manhole Rehabilitation (EA)	New Sewer Line Residential Lines (EA)
A1	4,100	–	–	13	126
A2	–	3,800	–	12	86
A3	2,450	1,100	2,500	25	150
A4	2,050	5,700	–	10	219
A5	3,500	3,600	–	19	175
A6	5,600	4,800	2,600	40	245
A7	–	–	2,400	8	–
A8	4,800	2,500	1,300	24	214
A9	–	2,400	–	7	45
TOTAL	22,500	23,900	8,800	158	1,257

5.5 PROJECTS RECOMMENDED FOR CAPITAL IMPROVEMENTS PLAN

Based on the analysis of the City's year 2022 wastewater collection system, the following projects are recommended for inclusion in the wastewater system 15-year capital improvements plan:

5.5.1 Lift Station Upgrade and Rehabilitation Projects

- Lift Station No. 1 - Tower Road. Replacement of the entire lift station as one of the City's proposed projects is currently being planned. Lift station pumping capacity should be increased to account for the additional wastewater flows in the year 2027 wastewater connection projections.
- Lift Station No. 6 - Alamo Rec-Vec Park, East. Rehabilitation of the existing lift station with procured additional area to the site, site improvements, and new access from 13th Street.

- Lift Station No. 8 - Nebraska. Rehabilitation of the lift station. Due to the small lift station site area, the plan is recommending that the City acquire additional vacant property adjacent to the lift station to allow for responsible operations. Improvements would include a paved alley access roadway from Nebraska Road to the lift station and site fencing. Additionally, pump capacity would need to be increased to account for the additional wastewater connections projected in the year 2027 planning year.
- Lift Station No. 12 - East Alamo Country Club. Rehabilitation of the lift station.
- Lift Station No. 16 - Sunshine. Decommission the lift station in its entirety, and redirect flows to Lift Station No. 1 - Alamo Road.
- Lift Station No. 19 - Wastewater Treatment Plant. Structural wet well rehabilitation of the lift station. Lift station requires fencing.
- Lift Station No. 20 - Highland. Decommission the lift station in its entirety and redirect sewer flows, via gravity lines, to Lift Station No. 21- El Gato.
- Lift Station No. 21 - El Gato. New fencing and control of hydrogen sulfide gases. Installation of odor control system is recommended. Existing lift station currently has sufficient pumping capacity for additional flows projected for the 2027 planning period.
- Lift Station No. 24 - Alamo Palms. Structural wet well rehabilitation of the lift station.
- Lift Station No. 23 - Jr. High. Total rehabilitation of the lift station.

5.5.2 Force Main Improvements Projects

- Replacement to enlarge Lift Station No. 2 force main line from an existing 6-inch line to a 10-inch line.

5.5.3 Gravity Sewer Improvements Projects

- Replace existing clay sewer lines by “Pipe Bursting” technologies and rehabilitate deteriorating manholes in the older part of town. Also, associated sewer manholes would need to be rehabilitated through shot-creting process. Thirty percent (30%) of the total amount is being included with the 2022 through 2027 Capital Improvements Plan, with the remainder in subsequent planning years.

5.5.4 Wastewater Treatment Plant Projects

- No Projects Identified

5.6 NUMBERING SYSTEM FOR CAPITAL IMPROVEMENTS PLANS

The capital improvements recommended in the Wastewater System Master Plan have been organized into categories as indicated in **Table 5-10**. Each category has been assigned a block of numbers which are used to identify individual projects in that series.

**TABLE 5-10
NUMBERING SYSTEM FOR PROPOSED WASTEWATER PROJECTS**

PRIMARY PROJECT NUMBER	SECONDARY PROJECT NUMBER	CATEGORY
CIP5-WW-	-_00	5-YEAR CIP WASTEWATER SYSTEM PROJECTS
	-100	Lift Station Upgrade Projects
	-200	New Lift Station Projects
	-300	Force Main Projects
	-400	Gravity Sewer Projects
	-500	Wastewater Treatment Plant Projects
	-600	Other Projects
CIP15-WW-	-_00	15-YEAR CIP WASTEWATER SYSTEM PROJECTS
	-100	Lift Station Upgrade Projects
	-200	New Lift Station Projects
	-300	Force Main Projects
	-400	Gravity Sewer Projects
	-500	Wastewater Treatment Plant Projects
	-600	Other Projects

5.7 5-YEAR PLAN FOR WASTEWATER SYSTEM IMPROVEMENTS – 2027

Table 5-11 summarizes the 5-year CIP (year 2027) recommended projects for the City's wastewater system. Projects are identified in this section.

These projects are recommended to be implemented and completed prior to the year 2027.

Projects in the 5-year CIP are illustrated in **Map No. 5-6** and **Map No. 5-7**.

TABLE 5-11
SUMMARY OF WASTEWATER PROJECTS RECOMMENDED FOR 5-YEAR CIP

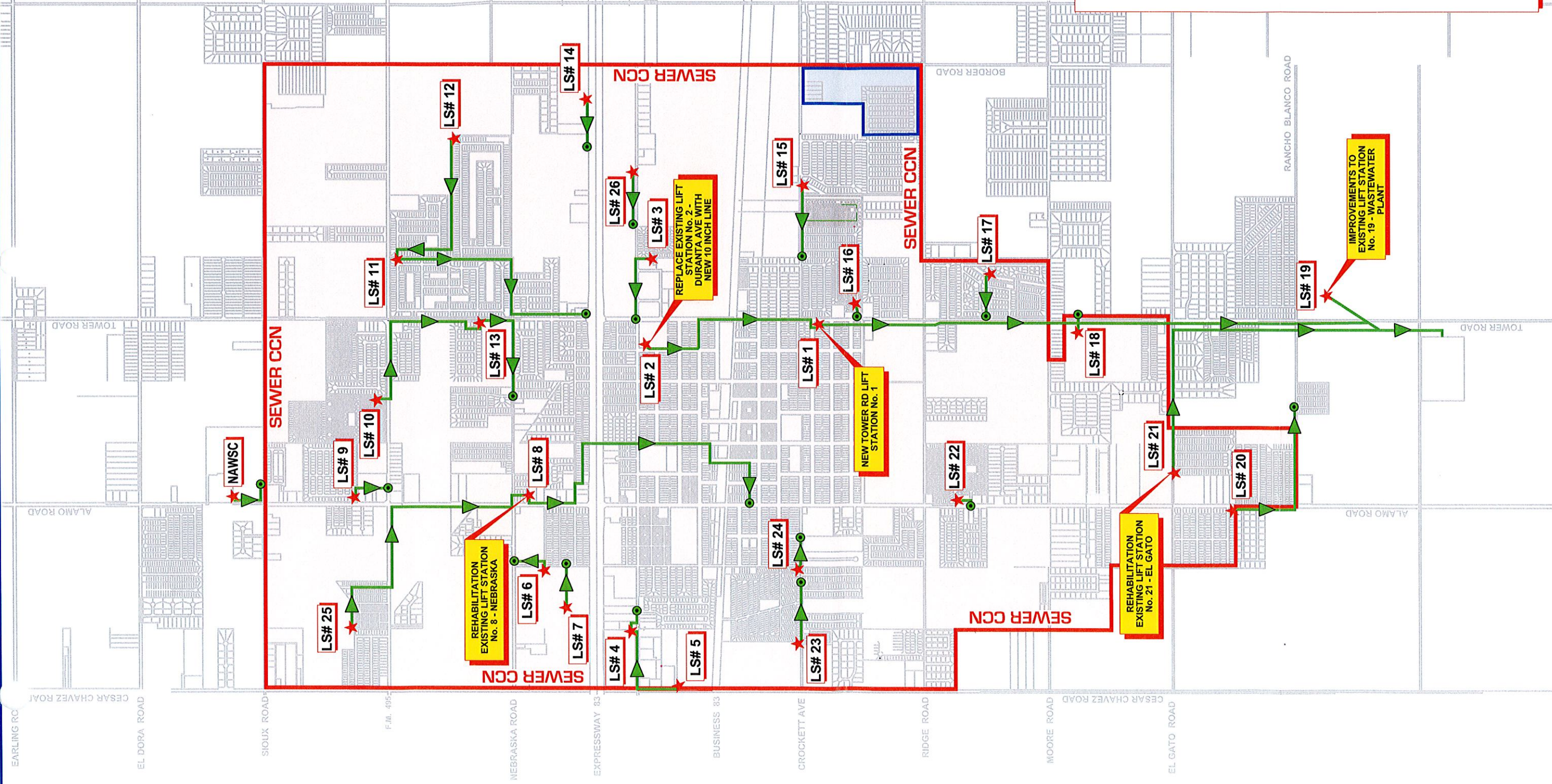
PROJECT NUMBER	PROJECT TITLE	PROJECT DESCRIPTION	CAPITAL COST (\$) ⁽¹⁾
LIFT STATION REPLACEMENT AND UPGRADES			
CIP5-WW-101	Replacement of Lift Station No. 1-Tower Road	Project includes the construction of new Lift Station No. 1 at location behind the City's Public Works Building located on Tower Road.	\$1,800,000
CIP5-WW-102	Rehabilitation of Lift Station No.8-Nebraska	Project includes the rehabilitation of this lift station to includes structural repairs to the existing concrete wet well and epoxy lining, electrical and controls and site improvements Also includes cost of additional land acquisition.	\$800,000
CIP5-WW-103	Rehabilitation of Lift Station No.12- East Alamo Country Club	Project includes the rehabilitation of this lift station to includes structural repairs to the existing concrete wet well and epoxy lining, electrical and controls and new pumps.	\$450,000
CIP5-WW-104	Rehabilitation of Lift Station No.19-Wastewater Treatment Plant	Project includes the rehabilitation of this lift station to includes structural repairs to the existing concrete wet well and epoxy lining and fencing.	\$600,000

PROJECT NUMBER	PROJECT TITLE	PROJECT DESCRIPTION	CAPITAL COST (\$) ⁽¹⁾
FORCE MAIN PROJECTS			
CIP5-WW-300	Enlargement of Lift Station No. 2 Force Main Line	Project includes the replacement of the force main from an existing 6-inch diameter to 10-inch PVC line.	\$800,000
GRAVITY SEWER LINE PROJECTS			
CIP5-WW-401	Area 1 Existing gravity sewer replacement and existing manhole rehabilitation	Project includes the replacement of approximately 4,100 linear feet of existing clay 6-inch gravity sewer lines with new 8-inch by "Pipe Bursting" operations and rehabilitation of 13 existing brick manhole with epoxy linings.	\$1,500,000
CIP5-WW-402	Area 2 Existing gravity sewer replacement and existing manhole rehabilitation	Project includes the replacement of approximately 3,800 linear feet of existing clay 8-inch gravity sewer lines by "Pipe Bursting" operations and rehabilitation of 12 existing brick manholes with epoxy linings.	\$1,000,000
CIP5-WW-403	Area 3 Existing gravity sewer replacement and existing manhole rehabilitation	Project includes the replacement of approximately 2,400 linear feet of existing clay 6-inch, 1,100 linear feet of existing 8-inch, and 2,500 linear feet of existing 10-inch gravity sewer lines by "Pipe Bursting" operations; and rehabilitation of 25 existing brick manhole with epoxy linings.	\$1,000,000
CIP5-WW-404	Area 4 Existing gravity sewer replacement and existing manhole rehabilitation	Project involves construction of approximately 2,000 linear feet of 15-inch gravity sewer from a manhole where Lift Station No. 2 discharges into Lift Station No. 1 to replace the existing 12-inch gravity.	\$650,000
WASTEWATER TREATMENT PLANT PROJECTS			
No projects identified.			

Notes: (1) All costs are presented in 2022 dollars. Costs for projects performed increasingly later than 2022 should be escalated accordingly.



GRAPHIC SCALE



EXISTING LIFT STATIONS

- LS# 1 TOWER RD.
- LS# 2 DURANTA AVE.
- LS# 3 ROYAL PALMS
- LS# 4 WALMART
- LS# 5 SUN MEADOWS
- LS# 6 ALAMO REC-VEH PARK (EAST)
- LS# 7 ALAMO REC-VEH PARK
- LS# 8 NEBRASKA RD.
- LS# 9 CASA DEL VALLE
- LS# 10 TROPHY GARDENS
- LS# 11 RIVERSIDE
- LS# 12 ALAMO COUNTRY CLUB
- LS# 13 GREYSTONE
- LS# 14 FRONTAGE
- LS# 15 VALLEY DULCE
- LS# 16 SUNSHINE
- LS# 17 ROYAL HOUSE
- LS# 18 LAS BRISAS APTS.
- LS# 19 WASTEWATER PLANT
- LS# 20 HIGHLAND
- LS# 21 EL GATO
- LS# 22 ALAMO ROSE
- LS# 23 JR. HIGH
- LS# 24 ALAMO PALMS
- LS# 25 CAMPO ALTO
- LS# 26 METAL RECYCLING

LEGEND

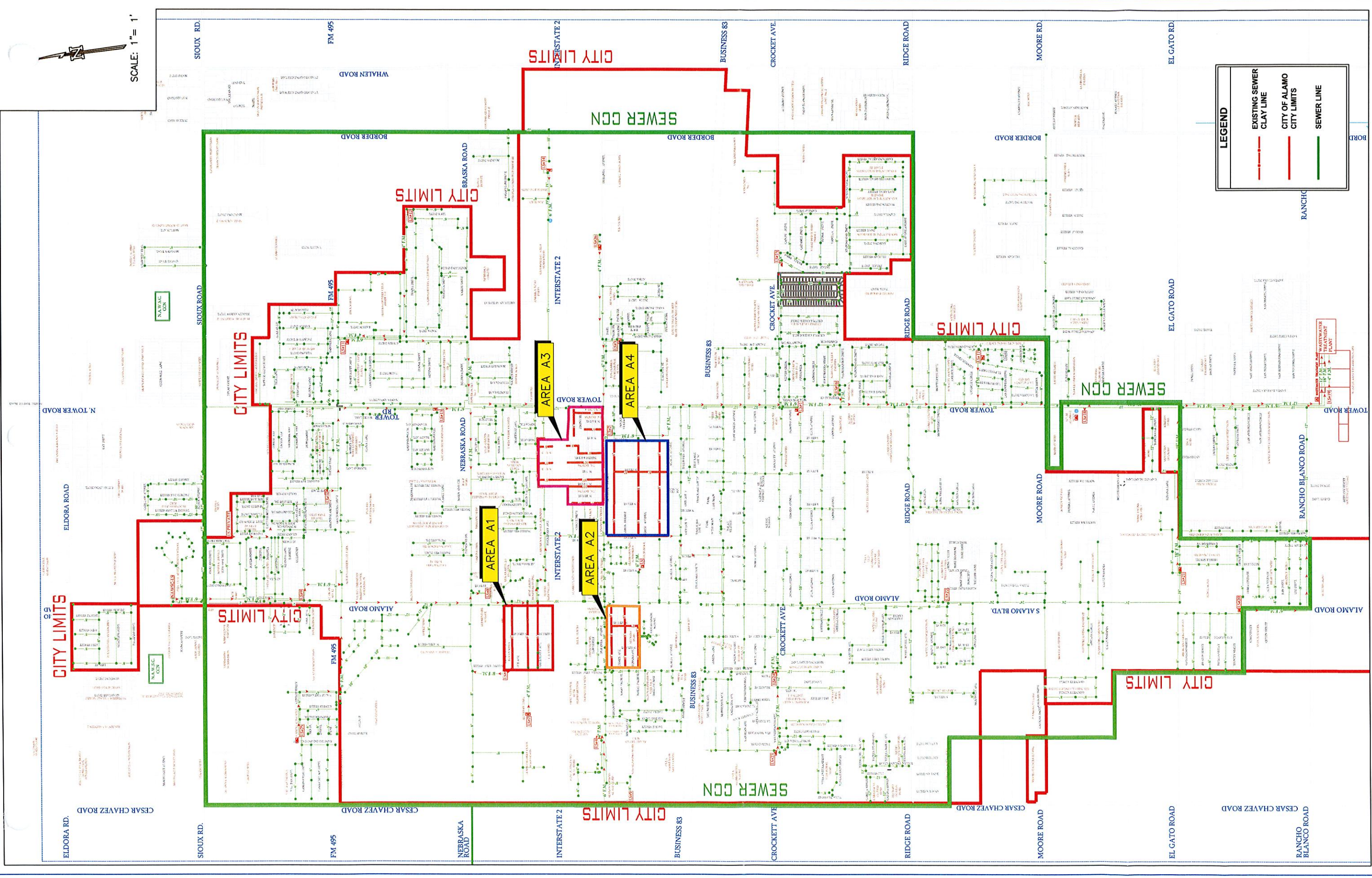
- EXISTING DRAIN DITCH
- EXISTING FORCE MAIN
- EXISTING LIFT STATIONS

CITY OF ALAMO
WATER AND WASTEWATER MASTER PLAN
2027 MAJOR LIFT STATION IMPROVEMENTS



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MAP No.
5-6



CITY OF ALAMO
WATER AND WASTEWATER MASTER PLAN
2027 EXISTING WASTEWATER GRAVITY LINES
NEEDING TO BE REPLACED AND REHABILITATED



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 McAllen Harlingen Weslaco
 TBE FIRM REGISTRATION No. F-4860

MAP No.
5-7

5.8 15-YEAR PLAN FOR WASTEWATER SYSTEM IMPROVEMENTS - 2032

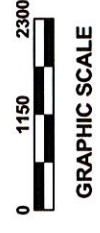
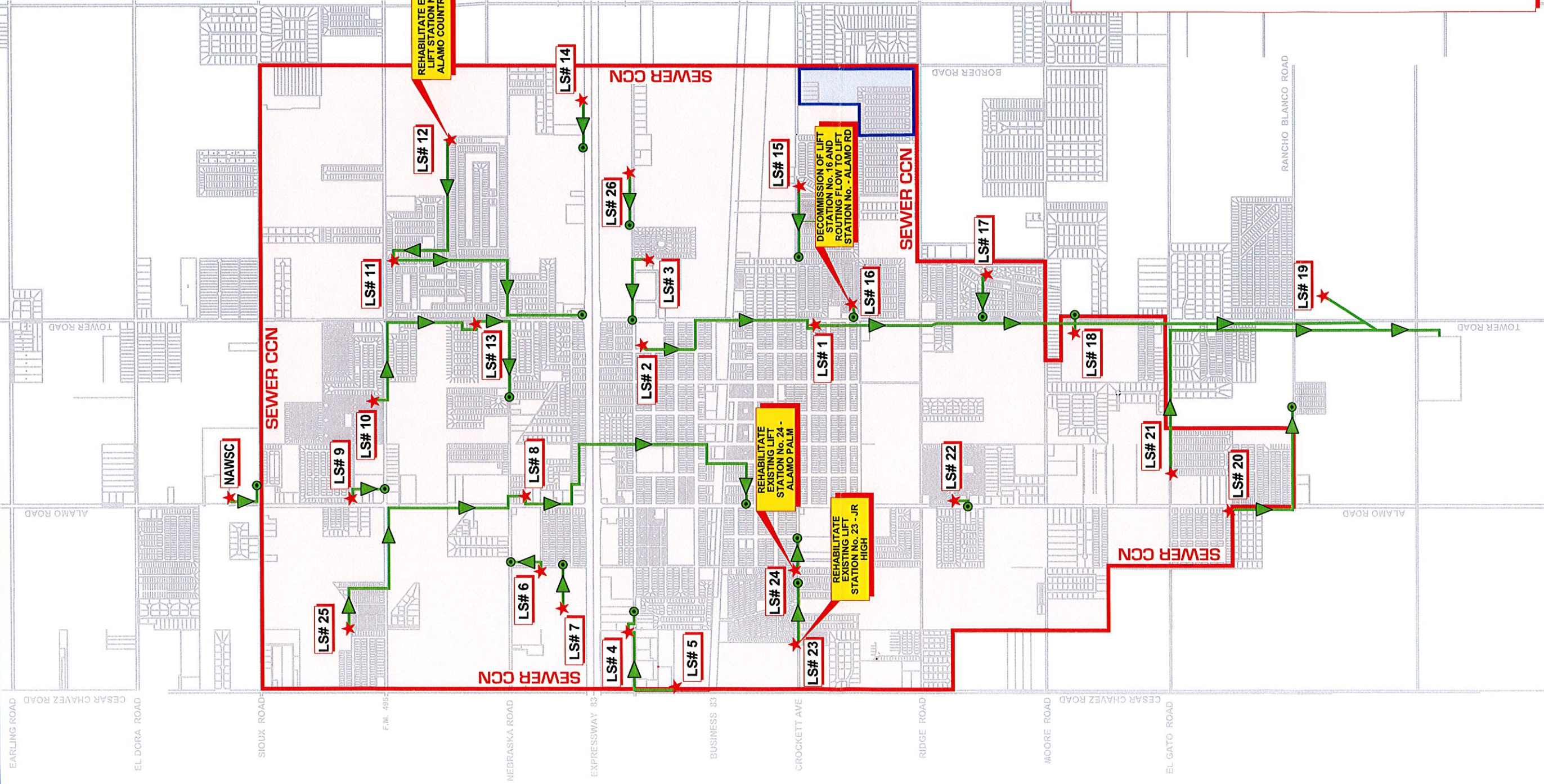
Table 5-12 summarizes the 15-Year CIP, *first 5-year period* projects (Between Year 2027 and 2037) projects which are recommended for the City's wastewater system. Projects are identified in Section 4 of this report.

These projects are recommended to be implemented and completed prior to the year 2032.

Projects in the 15-year CIP, *first 5-year period*, are illustrated in **Map No. 5-8** and **Map 5-9**.

TABLE 5-12
SUMMARY OF WASTEWATER PROJECTS RECOMMENDED FOR 15-YEAR CIP
FIRST 5 YEAR PERIOD

PROJECT NUMBER	PROJECT TITLE	PROJECT DESCRIPTION	CAPITAL COST (\$) ⁽¹⁾
LIFT STATION REPLACEMENT AND REHABILITATION PROJECTS			
CIP15-WW-101	Rehabilitation of Lift Station No.23-Jr. High	Project includes the recoating and epoxy lining of the existing concrete wet well.	\$400,000
CIP15-WW102	Rehabilitation of Lift Station No.24-Alamo Palms	Project includes the rehabilitation of this lift station to includes structural repairs to the existing concrete wet well and epoxy lining.	\$450,000
CIP15-WW103	Rehabilitation of Lift Station No.12-Alamo County Club	Project includes the rehabilitation of this lift station to includes structural repairs to the existing concrete wet well and epoxy lining and new electrical controls.	\$450,000
CIP15-WW104	Decommission of Lift Station No. 16-Sunshine	Project the decommissioning and elimination of this lift station. New 8-inch gravity line installation to Tower Road. Note: Alamo Road Lift Station relocation project under the 5-year CIP would need to completed.	\$650,000



- EXISTING LIFT STATIONS**
- LS# 1 TOWER RD.
 - LS# 2 DURANTA AVE.
 - LS# 3 ROYAL PALMS
 - LS# 4 WALMART
 - LS# 5 SUN MEADOWS
 - LS# 6 ALAMO REC-VEH PARK (EAST)
 - LS# 7 ALAMO REC-VEH PARK
 - LS# 8 NEBRASKA RD.
 - LS# 9 CASA DEL VALLE
 - LS# 10 TROPHY GARDENS
 - LS# 11 RIVERSIDE
 - LS# 12 ALAMO COUNTRY CLUB
 - LS# 13 GREYSTONE
 - LS# 14 FRONTAGE
 - LS# 15 VALLEY DULCE
 - LS# 16 SUNSHINE
 - LS# 17 ROYAL HOUSE
 - LS# 18 LAS BRISAS APTS.
 - LS# 19 WASTEWATER PLANT
 - LS# 20 HIGHLAND
 - LS# 21 EL GATO
 - LS# 22 ALAMO ROSE
 - LS# 23 JR. HIGH
 - LS# 24 ALAMO PALMS
 - LS# 25 CAMPO ALTO
 - LS# 26 METAL RECYCLING

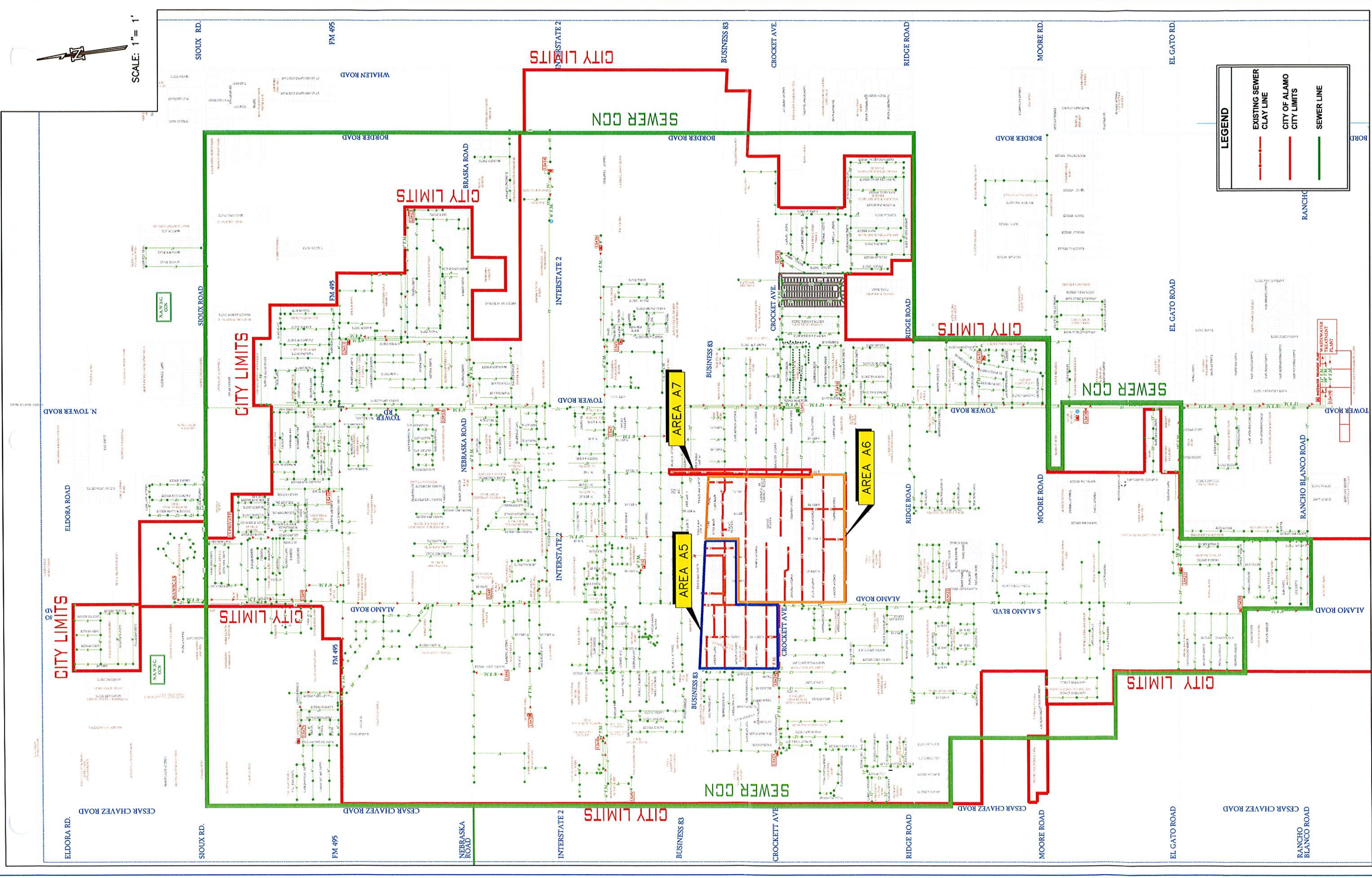
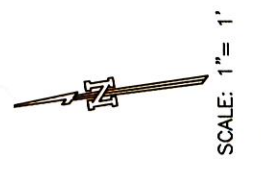
- LEGEND**
- EXISTING DRAIN DITCH
 - EXISTING FORCE MAIN
 - EXISTING LIFT STATIONS

CITY OF ALAMO
WATER AND WASTEWATER MASTER PLAN
2032 MAJOR LIFT STATION IMPROVEMENTS



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MAP No.
5-8



LEGEND

- EXISTING SEWER CLAY LINE
- CITY OF ALAMO CITY LIMITS
- SEWER LINE

CITY OF ALAMO
 WATER AND WASTEWATER MASTER PLAN
 2032 EXISTING WASTEWATER GRAVITY LINES
 NEEDING TO BE REPLACED AND REHABILITATED

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MAP No.
5-9

PROJECT NUMBER	PROJECT TITLE	PROJECT DESCRIPTION	CAPITAL COST (\$) ⁽¹⁾
GRAVITY SEWER UPGRADE PROJECTS			
CIP15-WW-401	Area 5 Existing gravity sewer replacement and existing manhole rehabilitation	Project includes the replacement of approximately 3,500 linear feet of existing clay 6-inch, 3,600 linear feet of existing 8-inch gravity sewer lines by "Pipe Bursting" operations and rehabilitation of 19 existing brick manhole with epoxy linings.	\$950,000
CIP15-WW-402	Area 6 Existing gravity sewer replacement and existing manhole rehabilitation	Project includes the replacement of approximately 5,600 linear feet of existing clay 6-inch, 4,800 linear feet of existing 8-inch and 2,600 linear feet of existing 10-inch gravity sewer lines by "Pipe Bursting" operations and rehabilitation of 40 existing brick manholes with epoxy linings.	\$1,700,000
CIP15-WW-403	Area 7 Existing gravity sewer replacement and existing manhole rehabilitation	Project includes the replacement of approximately 2,400 linear feet of existing clay 10-inch gravity sewer lines by "Pipe Bursting" operations and rehabilitation of 8 existing brick manhole with epoxy linings.	\$300,000
WASTEWATER TREATMENT PLANT PROJECTS			
No projects identified.			

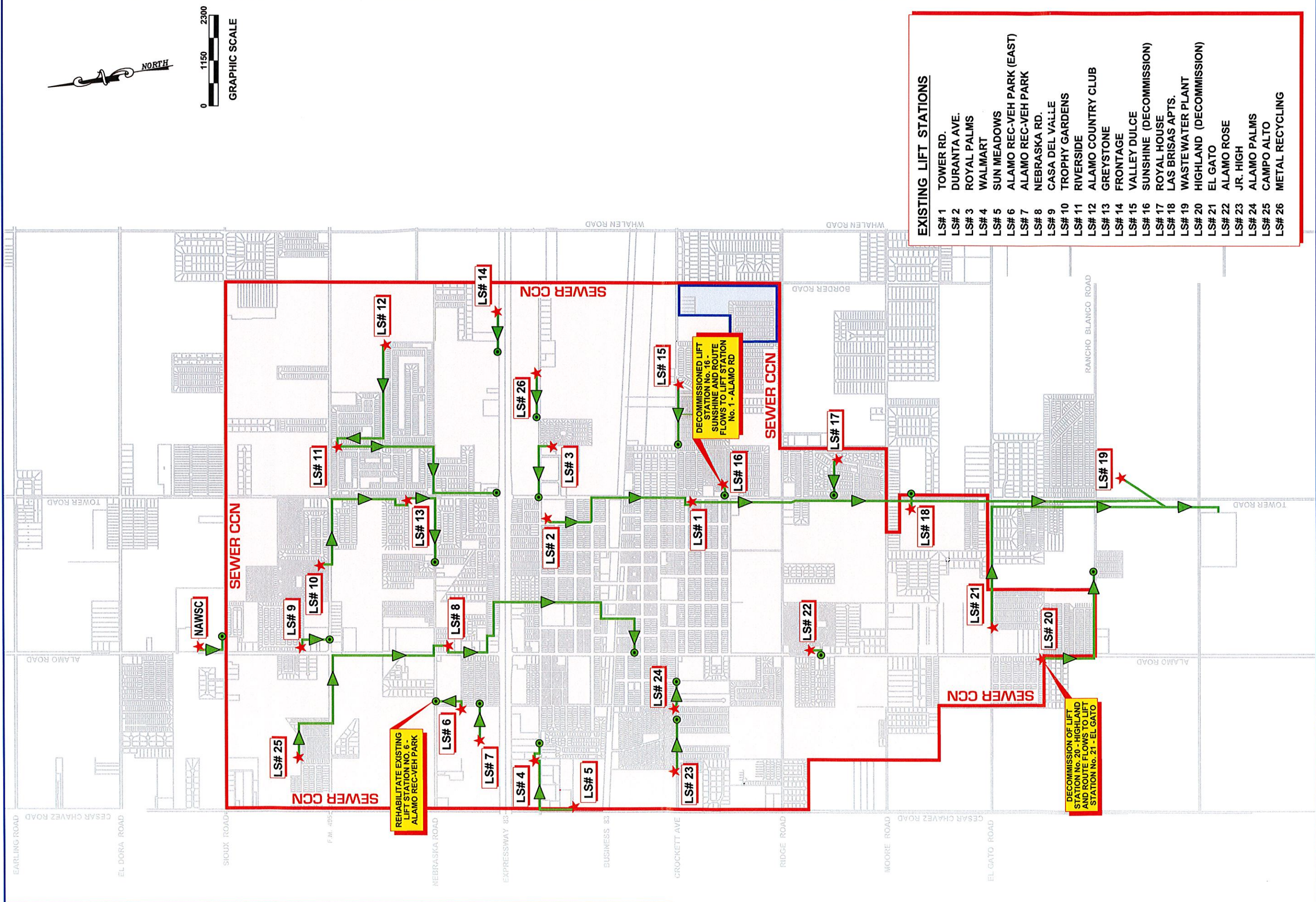
Notes: (1) All costs are presented in 2022 dollars. Costs for projects performed increasingly later than 2022 should be escalated accordingly.

5.9 15-YEAR PLAN FOR WASTEWATER SYSTEM IMPROVEMENTS - 2037

Table 5-13 summarizes the 15-Year CIP, **second 5-year period** projects (Between 2032 and 2037) projects which are recommended for the City’s wastewater system. Projects are prioritized by fiscal year in Section 4.

Major projects in the 15-year CIP, second year period, are illustrated in **Map No. 5-10** and **Map 5-11**.

These projects are recommended to be implemented and completed prior to the year 2037.



EXISTING LIFT STATIONS

- LS# 1 TOWER RD.
- LS# 2 DURANTA AVE.
- LS# 3 ROYAL PALMS
- LS# 4 WALMART
- LS# 5 SUN MEADOWS
- LS# 6 ALAMO REC-VEH PARK (EAST)
- LS# 7 ALAMO REC-VEH PARK
- LS# 8 NEBRASKA RD.
- LS# 9 CASA DEL VALLE
- LS# 10 TROPHY GARDENS
- LS# 11 RIVERSIDE
- LS# 12 ALAMO COUNTRY CLUB
- LS# 13 GREYSTONE
- LS# 14 FRONTAGE
- LS# 15 VALLEY DULCE
- LS# 16 SUNSHINE (DECOMMISSION)
- LS# 17 ROYAL HOUSE
- LS# 18 LAS BRISAS APTS.
- LS# 19 WASTEWATER PLANT
- LS# 20 HIGHLAND (DECOMMISSION)
- LS# 21 EL GATO
- LS# 22 ALAMO ROSE
- LS# 23 JR. HIGH
- LS# 24 ALAMO PALMS
- LS# 25 CAMPO ALTO
- LS# 26 METAL RECYCLING

LEGEND

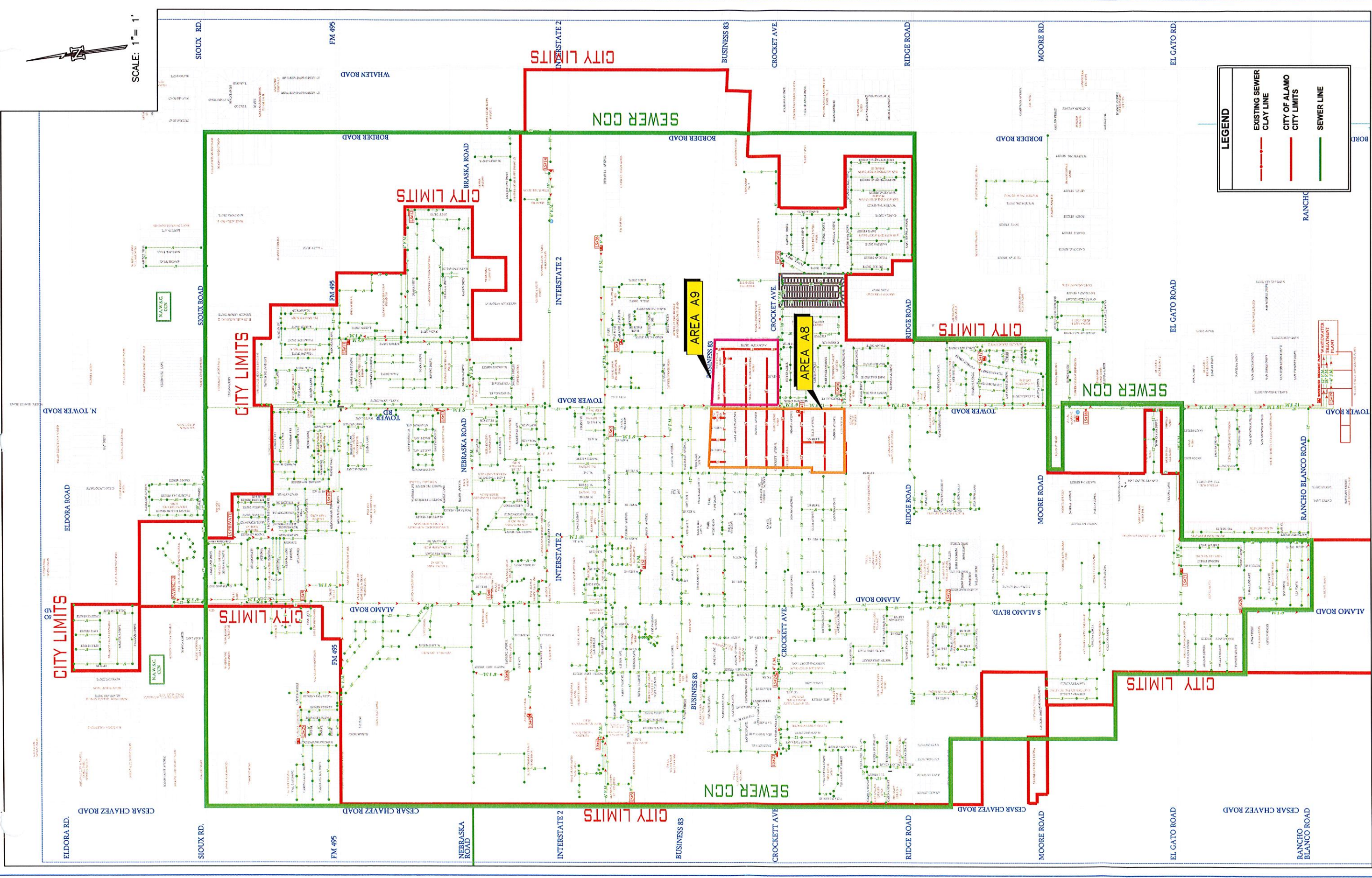
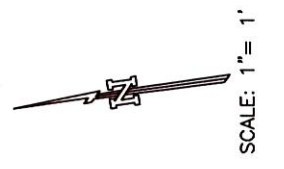
- EXISTING DRAIN DITCH
- EXISTING FORCE MAIN
- EXISTING LIFT STATIONS

CITY OF ALAMO
WATER AND WASTEWATER MASTER PLAN
2037 MAJOR LIFT STATION IMPROVEMENTS



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MAP No.
5-10



LEGEND

- EXISTING SEWER CLAY LINE
- CITY OF ALAMO CITY LIMITS
- SEWER LINE

CITY OF ALAMO
 WATER AND WASTEWATER MASTER PLAN
 2037 EXISTING WASTEWATER GRAVITY LINES
 NEEDING TO BE REPLACED AND REHABILITATED

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 TBPB FIRM REGISTRATION No: F-4860

MAP No.
5-11

TABLE 5-13
SUMMARY OF WASTEWATER PROJECTS RECOMMENDED FOR 15-YEAR CIP
2037- SECOND 5 YEAR PERIOD

PROJECT NUMBER	PROJECT TITLE	PROJECT DESCRIPTION	CAPITAL COST (\$) (1)
LIFT STATION REPLACEMENT AND REHABILITATION PROJECTS			
CIP15-WWW-104	Rehabilitation of Lift Station No.6- Alamo Rec-Vec Park East	Project includes the rehabilitation of this lift station to include structural repairs to the existing concrete wet well and epoxy lining, electrical and controls, and site improvements. Additionally, includes installing security fencing around the current lift station and providing a dedicated access pavement and gate from the adjacent 13 th Street roadway.	\$550,000
CIP15-WWW105	Decommission of Lift Station No. 20- Highland	Project the decommissioning and elimination of this lift station. Installation of a new 8-inch gravity line on Alamo Road, from LS # 20 receiving to LS #21.	\$500,000
GRAVITY SEWER UPGRADE PROJECTS			
CIP15-WWW-404	Area 8 Existing gravity sewer replacement and existing manhole rehabilitation	Project includes the replacement of approximately 4,800 linear feet of existing clay 6-inch, 2,500 linear feet of existing 8-inch, and 1,300 linear feet of existing 10-inch gravity sewer lines by "Pipe Bursting" operations; and rehabilitation of 19 existing brick manhole with epoxy linings.	\$1,500,000
CIP15-WWW-405	Area 9 Existing gravity sewer replacement and existing manhole rehabilitation	Project includes the replacement of approximately 2,400 linear feet of existing clay 8-inch gravity sewer lines by "Pipe Bursting" operations and rehabilitation of 7 existing brick manhole with epoxy linings.	\$950,000
WASTEWATER TREATMENT PLANT PROJECTS			
No projects identified.			

Notes: (1) All costs are presented in 2022 dollars. Costs for projects performed increasingly later than 2022 should be escalated accordingly.

IMPLEMENTATION PLAN

SECTION 6

6.1 SECTION INTRODUCTION

6.1.1 Scope of Section

This section presents the Implementation Plan for the capital improvement projects that are developed in this report. These projects are the recommended actions that comprise the Water and Wastewater Master Plan for the City of Alamo for the fiscal years 2022 through 2037. The following information is presented in the Implementation Plan:

- Capital Improvements Plans for the 5-year and 15-year planning periods are presented based on the water system projects developed in Section 3.0 and Capital Improvements Plans for the 5-year and 15-year planning periods for the wastewater system projects developed in Section 5.0.
- The recommended sequence in which the improvements should be completed is developed based on regulatory compliance issues, relative beneficial effect of the project versus cost, increase of service connections, and availability of funds.
- For the 5-year Capital Improvement Plan, capital costs for each project are summarized for each fiscal year from 2022 through 2027. For the 15-year Capital Improvements Plan, capital costs for each project are summarized in two five-year segments, i.e., for the fiscal periods 2027 through 2032, and 2032 through 2037.
- A funding plan that identifies potential grants and financing assistance that may be available from the state and federal government is presented.

6.1.2 Capital Cost Estimates

The capital cost estimates presented in this section include engineering and construction costs plus a 15 percent contingency. The engineering costs include estimated costs for surveying, geotechnical investigations, preliminary engineering, design, and construction phase services. Construction costs were developed using bid data from similar projects and also from conceptual estimating based on unit prices obtained from historical projects. All capital cost estimates presented in this plan are expressed in terms of 2022 dollars.

6.2 WATER SYSTEM CAPITAL IMPROVEMENTS PLANS

Table 6-1 shows a summary of the estimated capital costs for capital improvements projects for fiscal years 2022 through 2037. Fiscal year 2022 was underway when the water master plans were being finalized.

**TABLE 6-1
WATER SYSTEMS
CAPITAL IMPROVEMENTS PLAN PROJECTS**

Improvement Categories	5-year Capital Cost	15-year Capital Cost (First 5-Year Period)	15-year Capital Cost (Second 5-Year Period)
Raw Water Acquisition	\$1,500,000	\$1,500,000	\$1,500,000
Treatment Plant Rehabilitation and 2.5 Expansion	\$9,500,000	\$0.00	\$0.00
Waterlines and Mains	\$5,590,000	\$1,750,000	\$2,900,000

6.3 WASTEWATER SYSTEM CAPITAL IMPROVEMENTS PLANS

Table 6-2 shows a summary of the estimated capital costs for the wastewater capital improvements projects for fiscal years 2022-2037. Fiscal year 2022 was underway when the water master plans were being finalized.

**TABLE 6-2
WASTEWATER SYSTEMS
CAPITAL IMPROVEMENTS PLAN PROJECTS**

Improvement Categories	5-year Capital Cost	15-year Capital Cost (First 5-Year Period)	15-year Capital Cost (Second 5-Year Period)
Rehabilitation of Existing Lift Stations	\$1,850,000	\$1,300,000	\$1,500,000
Replacement of New Lift Station	\$1,800,000	\$0.00	\$550,000
Decommission of Existing Lift Stations	\$0.00	\$ 650,000	\$500,000
Gravity Sewer Line Upgrades	\$3,150,000	\$ 2,950,000	\$2,450,000
Force Main Line Enlargement	\$800,000	\$0.00	\$0.00

6.4 FUNDING PLAN

The funding plan provides an overview of the past funding methods and describes funding options for future water and wastewater system improvements projects.

6.4.1 City of Alamo Water Fund and Sewer Funds

The City accounts for all activities necessary to provide water and wastewater services through their Water and Sewer Enterprise Funds. These enterprise funds are financed and operated in a manner similar to private business enterprise where costs of providing services are financed primarily through their users. Activities accounted for these funds include administration, billing and collection, annual operating expenses, depreciation and amortization, and financing and debt service.

Although the City has used alternative financing methods such as the Hidalgo County Urban County Program funding in the past for smaller projects, the Texas Water Development Board (TWDB) State Revolving Fund (SRF) programs have been used by the City as the primary method for funding larger water and wastewater projects.

The Urban County funding method will likely continue to be used for future smaller projects, while the Texas Water Development Board funding programs will likely be used to fund larger projects outlined in this Water and Wastewater Master Plan.

6.4.2 Hidalgo County Urban County Program

The Urban County Program was created in 1988 by the County of Hidalgo which allowed the County to receive an entitlement portion of the U.S. Housing and Urban Development Community Development Block Grant (CDBG) funding.

Hidalgo County created the Urban County Program Department to administer the Community Development Block Grant Program funding. The program provides financial grants to cities like Alamo that may include water and wastewater improvements projects.

The Urban County Program monies will fund design and construction costs, acquisition fees, or improvements to water supply and wastewater collection and treatment facilities.

6.4.3 Clean Water SRF Funding of Wastewater Projects

The Clean Water State Revolving Fund (CWSRF) program provides loans to any political subdivision with the authority to own and operate a wastewater system. Cities like the City of Alamo are eligible to receive assistance from the CWSRF in the form of low interest loans and/or any available loan forgiveness funds. The loans can be used for the planning, design, and construction of sewage treatment facilities, wastewater recycling and re-use facilities, collections systems, storm water pollution control projects, and non-point source pollution control projects. The Clean Water SRF is administered by the TWDB.

The SRF funds can provide traditional long-term, fixed rate loans at the beginning of construction. Alternatively, short-term, variable rate construction period loans are offered that convert to a long term, fixed rate loan within 90 days of the completion of construction. Borrowers also have an option to convert to long term, fixed rate financing at any time prior to project completion. With both options, the borrower will receive a long-term interest rate that is 0.7 percent below the rate the borrower would receive on the open market at the time of the loan application. The short-term variable interest rate will generally be about 2.5 percent below long-term market rates in effect at the time of the loan application. The maximum repayment period for a SRF loan is 20 years from the completion of construction.

6.4.4 Drinking Water SRF Funding of Water Projects

The Safe Drinking Water Act Amendments (SDWA) of 1996 authorize a Drinking Water State Revolving Fund (DWSRF) to assist public water systems to finance the cost of infrastructure needed to achieve or maintain compliance with SDWA requirements and to protect public health objectives of the Act. Under this program, the United States Environmental Protection Agency (US EPA) awards capitalization grants to states, which in turn provide low-cost loans and other types of assistance to eligible systems. The Drinking Water State Revolving Fund (DWSRF) program provides loans to any political subdivision with the authority to own and operate a water system. Cities like the City of Alamo are eligible to receive assistance from the SRF in the form of low interest loans and any available loan forgiveness funds. The Drinking Water SRF is administered by the TWDB.

6.4.5 Recommended Funding Program

- It is recommended that the City take full advantage of the Texas Water Development Board administered CWSRF and DWSRF low interest loans, combined with any available loan forgiveness funds for larger projects.

Because of the low interest loan rate and the possible granting of loan forgiveness funds, this should be the primary source of funds.

- Hidalgo County Urban County Program funds, administered by Hidalgo County, should be used for smaller projects.
- Bond funds should be used for smaller projects that need to be expedited or when TWDB funds are neither available, nor desirable.

APPENDIX 1

Tower Road Tank Pressure Data

North Tank Pressure Data

South Tank Pressure Data

TOWER RD TANK				
Time	Pressure Recorder	Adjusted Pressure at Recorder	Pressure at Tank Footing	Hydraulic Elevation of Water in Tank
11/4/2022 14:59	62.4	47.6	49.33	211.04
11/4/2022 15:14	62.6	47.8	49.53	211.50
11/4/2022 15:29	63	48.2	49.93	212.43
11/4/2022 15:44	63.4	48.6	50.33	213.35
11/4/2022 15:59	63.7	48.9	50.63	214.05
11/4/2022 16:14	64	49.2	50.93	214.74
11/4/2022 16:29	63.7	48.9	50.63	214.05
11/4/2022 16:44	63.4	48.6	50.33	213.35
11/4/2022 16:59	62.8	48	49.73	211.97
11/4/2022 17:14	62.6	47.8	49.53	211.50
11/4/2022 17:29	62.2	47.4	49.13	210.58
11/4/2022 17:44	61.9	47.1	48.83	209.89
11/4/2022 17:59	61.4	46.6	48.33	208.73
11/4/2022 18:14	61.3	46.5	48.23	208.50
11/4/2022 18:29	61.7	46.9	48.63	209.43
11/4/2022 18:44	62	47.2	48.93	210.12
11/4/2022 18:59	62.4	47.6	49.33	211.04
11/4/2022 19:14	62.7	47.9	49.63	211.74
11/4/2022 19:29	62.8	48	49.73	211.97
11/4/2022 19:44	62.7	47.9	49.63	211.74
11/4/2022 19:59	62.3	47.5	49.23	210.81
11/4/2022 20:14	62	47.2	48.93	210.12
11/4/2022 20:29	61.6	46.8	48.53	209.19
11/4/2022 20:44	61.4	46.6	48.33	208.73
11/4/2022 20:59	61.3	46.5	48.23	208.50
11/4/2022 21:14	61.4	46.6	48.33	208.73
11/4/2022 21:29	62	47.2	48.93	210.12
11/4/2022 21:44	62.3	47.5	49.23	210.81
11/4/2022 21:59	62.6	47.8	49.53	211.50
11/4/2022 22:14	63	48.2	49.93	212.43
11/4/2022 22:29	62.3	47.5	49.23	210.81
11/4/2022 22:44	62.1	47.3	49.03	210.35
11/4/2022 22:59	62	47.2	48.93	210.12
11/4/2022 23:14	61.5	46.7	48.43	208.96
11/4/2022 23:29	61.6	46.8	48.53	209.19
11/4/2022 23:44	62.1	47.3	49.03	210.35
11/4/2022 23:59	62.5	47.7	49.43	211.27
11/5/2022 0:14	62.8	48	49.73	211.97
11/5/2022 0:29	63.2	48.4	50.13	212.89
11/5/2022 0:44	63.6	48.8	50.53	213.81
11/5/2022 0:59	64.1	49.3	51.03	214.97
11/5/2022 1:14	64.4	49.6	51.33	215.66

TOWER RD TANK				
Time	Pressure Recorder	Adjusted Pressure at Recorder	Pressure at Tank Footing	Hydraulic Elevation of Water in Tank
11/5/2022 1:29	64.1	49.3	51.03	214.97
11/5/2022 1:44	63.8	49	50.73	214.28
11/5/2022 1:59	63.4	48.6	50.33	213.35
11/5/2022 2:14	63.4	48.6	50.33	213.35
11/5/2022 2:29	62.9	48.1	49.83	212.20
11/5/2022 2:44	62.7	47.9	49.63	211.74
11/5/2022 2:59	62.5	47.7	49.43	211.27
11/5/2022 3:14	62.7	47.9	49.63	211.74
11/5/2022 3:29	63.3	48.5	50.23	213.12
11/5/2022 3:44	63.4	48.6	50.33	213.35
11/5/2022 3:59	63.2	48.4	50.13	212.89
11/5/2022 4:14	62.8	48	49.73	211.97
11/5/2022 4:29	62.6	47.8	49.53	211.50
11/5/2022 4:44	62.4	47.6	49.33	211.04
11/5/2022 4:59	62.4	47.6	49.33	211.04
11/5/2022 5:14	62	47.2	48.93	210.12
11/5/2022 5:29	62	47.2	48.93	210.12
11/5/2022 5:44	61.5	46.7	48.43	208.96
11/5/2022 5:59	61.7	46.9	48.63	209.43
11/5/2022 6:14	61.3	46.5	48.23	208.50
11/5/2022 6:29	61.1	46.3	48.03	208.04
11/5/2022 6:44	61	46.2	47.93	207.81
11/5/2022 6:59	60.8	46	47.73	207.35
11/5/2022 7:14	60.8	46	47.73	207.35
11/5/2022 7:29	61.3	46.5	48.23	208.50
11/5/2022 7:44	61.7	46.9	48.63	209.43
11/5/2022 7:59	62.3	47.5	49.23	210.81
11/5/2022 8:14	62.7	47.9	49.63	211.74
11/5/2022 8:29	62.9	48.1	49.83	212.20
11/5/2022 8:44	63.3	48.5	50.23	213.12
11/5/2022 8:59	63.7	48.9	50.63	214.05
11/5/2022 9:14	63.9	49.1	50.83	214.51
11/5/2022 9:29	64.1	49.3	51.03	214.97
11/5/2022 9:44	64.5	49.7	51.43	215.89
11/5/2022 9:59	64.3	49.5	51.23	215.43
11/5/2022 10:14	64.1	49.3	51.03	214.97
11/5/2022 10:29	63.6	48.8	50.53	213.81
11/5/2022 10:44	63.1	48.3	50.03	212.66
11/5/2022 10:59	62.8	48	49.73	211.97
11/5/2022 11:14	62.7	47.9	49.63	211.74
11/5/2022 11:29	63	48.2	49.93	212.43
11/5/2022 11:44	63.3	48.5	50.23	213.12

TOWER RD TANK				
Time	Pressure Recorder	Adjusted Pressure at Recorder	Pressure at Tank Footing	Hydraulic Elevation of Water in Tank
11/5/2022 11:59	63.3	48.5	50.23	213.12
11/5/2022 12:14	63	48.2	49.93	212.43
11/5/2022 12:29	62.7	47.9	49.63	211.74
11/5/2022 12:44	62.3	47.5	49.23	210.81
11/5/2022 12:59	61.8	47	48.73	209.66
11/5/2022 13:14	61.5	46.7	48.43	208.96
11/5/2022 13:29	61.3	46.5	48.23	208.50
11/5/2022 13:44	60.8	46	47.73	207.35
11/5/2022 13:59	60.5	45.7	47.43	206.65
11/5/2022 14:14	60.4	45.6	47.33	206.42
11/5/2022 14:29	60.6	45.8	47.53	206.88
11/5/2022 14:44	60.7	45.9	47.63	207.12
11/5/2022 14:59	61.1	46.3	48.03	208.04
11/5/2022 15:14	61.7	46.9	48.63	209.43
11/5/2022 15:29	62	47.2	48.93	210.12
11/5/2022 15:44	62.2	47.4	49.13	210.58
11/5/2022 15:59	62.6	47.8	49.53	211.50
11/5/2022 16:14	62.7	47.9	49.63	211.74
11/5/2022 16:29	63.3	48.5	50.23	213.12
11/5/2022 16:44	63.1	48.3	50.03	212.66
11/5/2022 16:59	63.5	48.7	50.43	213.58
11/5/2022 17:14	62.8	48	49.73	211.97
11/5/2022 17:29	62.6	47.8	49.53	211.50
11/5/2022 17:44	62.2	47.4	49.13	210.58
11/5/2022 17:59	61.8	47	48.73	209.66
11/5/2022 18:14	61.4	46.6	48.33	208.73
11/5/2022 18:29	61.1	46.3	48.03	208.04
11/5/2022 18:44	60.8	46	47.73	207.35
11/5/2022 18:59	60.8	46	47.73	207.35
11/5/2022 19:14	61.3	46.5	48.23	208.50
11/5/2022 19:29	61.5	46.7	48.43	208.96
11/5/2022 19:44	62	47.2	48.93	210.12
11/5/2022 19:59	62	47.2	48.93	210.12
11/5/2022 20:14	61.8	47	48.73	209.66
11/5/2022 20:29	61.4	46.6	48.33	208.73
11/5/2022 20:44	61.1	46.3	48.03	208.04
11/5/2022 20:59	60.9	46.1	47.83	207.58
11/5/2022 21:14	61.5	46.7	48.43	208.96
11/5/2022 21:29	61.8	47	48.73	209.66
11/5/2022 21:44	62.1	47.3	49.03	210.35
11/5/2022 21:59	62.6	47.8	49.53	211.50
11/5/2022 22:14	62.9	48.1	49.83	212.20

TOWER RD TANK				
Time	Pressure Recorder	Adjusted Pressure at Recorder	Pressure at Tank Footing	Hydraulic Elevation of Water in Tank
11/5/2022 22:29	63.4	48.6	50.33	213.35
11/5/2022 22:44	63.1	48.3	50.03	212.66
11/5/2022 22:59	63	48.2	49.93	212.43
11/5/2022 23:14	62.6	47.8	49.53	211.50
11/5/2022 23:29	62.4	47.6	49.33	211.04
11/5/2022 23:44	62.3	47.5	49.23	210.81
11/5/2022 23:59	62.8	48	49.73	211.97
11/6/2022 0:14	63.1	48.3	50.03	212.66
11/6/2022 0:29	63.7	48.9	50.63	214.05
11/6/2022 0:44	64.1	49.3	51.03	214.97
11/6/2022 0:59	64.6	49.8	51.53	216.12
11/6/2022 1:14	64.3	49.5	51.23	215.43
11/6/2022 1:29	63.9	49.1	50.83	214.51
11/6/2022 1:44	63.7	48.9	50.63	214.05
11/6/2022 1:59	63.4	48.6	50.33	213.35
11/6/2022 2:14	63.3	48.5	50.23	213.12
11/6/2022 2:29	63	48.2	49.93	212.43
11/6/2022 2:44	62.7	47.9	49.63	211.74
11/6/2022 2:59	62.4	47.6	49.33	211.04
11/6/2022 3:14	62.4	47.6	49.33	211.04
11/6/2022 3:29	62.4	47.6	49.33	211.04
11/6/2022 3:44	62	47.2	48.93	210.12
11/6/2022 3:59	61.9	47.1	48.83	209.89
11/6/2022 4:14	61.6	46.8	48.53	209.19
11/6/2022 4:29	61.5	46.7	48.43	208.96
11/6/2022 4:44	61.5	46.7	48.43	208.96
11/6/2022 4:59	61.3	46.5	48.23	208.50
11/6/2022 5:14	61.8	47	48.73	209.66
11/6/2022 5:29	62.3	47.5	49.23	210.81
11/6/2022 5:44	62.7	47.9	49.63	211.74
11/6/2022 5:59	63.3	48.5	50.23	213.12
11/6/2022 6:14	63.8	49	50.73	214.28
11/6/2022 6:29	64.3	49.5	51.23	215.43
11/6/2022 6:44	64.7	49.9	51.63	216.36
11/6/2022 6:59	65.2	50.4	52.13	217.51
11/6/2022 7:14	65.2	50.4	52.13	217.51
11/6/2022 7:29	64.9	50.1	51.83	216.82
11/6/2022 7:44	64.6	49.8	51.53	216.12
11/6/2022 7:59	64.3	49.5	51.23	215.43
11/6/2022 8:14	63.9	49.1	50.83	214.51
11/6/2022 8:29	63.7	48.9	50.63	214.05
11/6/2022 8:44	63.4	48.6	50.33	213.35

TOWER RD TANK				
Time	Pressure Recorder	Adjusted Pressure at Recorder	Pressure at Tank Footing	Hydraulic Elevation of Water in Tank
11/6/2022 8:59	63.1	48.3	50.03	212.66
11/6/2022 9:14	62.7	47.9	49.63	211.74
11/6/2022 9:29	63	48.2	49.93	212.43
11/6/2022 9:44	63.4	48.6	50.33	213.35
11/6/2022 9:59	63.7	48.9	50.63	214.05
11/6/2022 10:14	63.7	48.9	50.63	214.05
11/6/2022 10:29	64	49.2	50.93	214.74
11/6/2022 10:44	64.4	49.6	51.33	215.66
11/6/2022 10:59	63.8	49	50.73	214.28
11/6/2022 11:14	63.4	48.6	50.33	213.35
11/6/2022 11:29	63.1	48.3	50.03	212.66
11/6/2022 11:44	63.1	48.3	50.03	212.66
11/6/2022 11:59	63.2	48.4	50.13	212.89
11/6/2022 12:14	63.7	48.9	50.63	214.05
11/6/2022 12:29	63.6	48.8	50.53	213.81
11/6/2022 12:44	63.6	48.8	50.53	213.81
11/6/2022 12:59	63.3	48.5	50.23	213.12
11/6/2022 13:14	63.1	48.3	50.03	212.66
11/6/2022 13:29	63.3	48.5	50.23	213.12
11/6/2022 13:44	63.7	48.9	50.63	214.05
11/6/2022 13:59	63.9	49.1	50.83	214.51
11/6/2022 14:14	64.2	49.4	51.13	215.20
11/6/2022 14:29	64.7	49.9	51.63	216.36
11/6/2022 14:44	64.8	50	51.73	216.59
11/6/2022 14:59	65	50.2	51.93	217.05
11/6/2022 15:14	65.4	50.6	52.33	217.97
11/6/2022 15:29	65.7	50.9	52.63	218.67
11/6/2022 15:44	65.8	51	52.73	218.90
11/6/2022 15:59	65.7	50.9	52.63	218.67
11/6/2022 16:14	65.2	50.4	52.13	217.51
11/6/2022 16:29	64.7	49.9	51.63	216.36
11/6/2022 16:44	64.4	49.6	51.33	215.66
11/6/2022 16:59	63.9	49.1	50.83	214.51
11/6/2022 17:14	63.5	48.7	50.43	213.58
11/6/2022 17:29	63.1	48.3	50.03	212.66
11/6/2022 17:44	62.6	47.8	49.53	211.50
11/6/2022 17:59	62.2	47.4	49.13	210.58
11/6/2022 18:14	61.8	47	48.73	209.66
11/6/2022 18:29	61.6	46.8	48.53	209.19
11/6/2022 18:44	61.4	46.6	48.33	208.73
11/6/2022 18:59	61.6	46.8	48.53	209.19
11/6/2022 19:14	61.9	47.1	48.83	209.89

TOWER RD TANK				
Time	Pressure Recorder	Adjusted Pressure at Recorder	Pressure at Tank Footing	Hydraulic Elevation of Water in Tank
11/6/2022 19:29	62.3	47.5	49.23	210.81
11/6/2022 19:44	62.3	47.5	49.23	210.81
11/6/2022 19:59	62.1	47.3	49.03	210.35
11/6/2022 20:14	61.6	46.8	48.53	209.19
11/6/2022 20:29	61.3	46.5	48.23	208.50
11/6/2022 20:44	61.1	46.3	48.03	208.04
11/6/2022 20:59	60.9	46.1	47.83	207.58
11/6/2022 21:14	61.2	46.4	48.13	208.27
11/6/2022 21:29	61.6	46.8	48.53	209.19
11/6/2022 21:44	62	47.2	48.93	210.12
11/6/2022 21:59	62.3	47.5	49.23	210.81
11/6/2022 22:14	62.5	47.7	49.43	211.27
11/6/2022 22:29	62.7	47.9	49.63	211.74
11/6/2022 22:44	63	48.2	49.93	212.43
11/6/2022 22:59	63.4	48.6	50.33	213.35
11/6/2022 23:14	63.2	48.4	50.13	212.89
11/6/2022 23:29	62.9	48.1	49.83	212.20
11/6/2022 23:44	62.3	47.5	49.23	210.81
11/6/2022 23:59	62	47.2	48.93	210.12
11/7/2022 0:14	61.6	46.8	48.53	209.19
11/7/2022 0:29	62	47.2	48.93	210.12
11/7/2022 0:44	62.5	47.7	49.43	211.27
11/7/2022 0:59	63.1	48.3	50.03	212.66
11/7/2022 1:14	63.4	48.6	50.33	213.35
11/7/2022 1:29	63.7	48.9	50.63	214.05
11/7/2022 1:44	64	49.2	50.93	214.74
11/7/2022 1:59	64.6	49.8	51.53	216.12
11/7/2022 2:14	64.5	49.7	51.43	215.89
11/7/2022 2:29	64.1	49.3	51.03	214.97
11/7/2022 2:44	64	49.2	50.93	214.74
11/7/2022 2:59	63.6	48.8	50.53	213.81
11/7/2022 3:14	63.3	48.5	50.23	213.12
11/7/2022 3:29	63.1	48.3	50.03	212.66
11/7/2022 3:44	62.8	48	49.73	211.97
11/7/2022 3:59	62.7	47.9	49.63	211.74
11/7/2022 4:14	62.3	47.5	49.23	210.81
11/7/2022 4:29	62	47.2	48.93	210.12
11/7/2022 4:44	61.8	47	48.73	209.66
11/7/2022 4:59	61.6	46.8	48.53	209.19
11/7/2022 5:14	62	47.2	48.93	210.12
11/7/2022 5:29	62.1	47.3	49.03	210.35
11/7/2022 5:44	62.2	47.4	49.13	210.58

TOWER RD TANK				
Time	Pressure Recorder	Adjusted Pressure at Recorder	Pressure at Tank Footing	Hydraulic Elevation of Water in Tank
11/7/2022 5:59	62.7	47.9	49.63	211.74
11/7/2022 6:14	63.1	48.3	50.03	212.66
11/7/2022 6:29	63.5	48.7	50.43	213.58
11/7/2022 6:44	63.8	49	50.73	214.28
11/7/2022 6:59	63.9	49.1	50.83	214.51
11/7/2022 7:14	63.5	48.7	50.43	213.58
11/7/2022 7:29	63.3	48.5	50.23	213.12
11/7/2022 7:44	62.6	47.8	49.53	211.50
11/7/2022 7:59	62.1	47.3	49.03	210.35
11/7/2022 8:14	62	47.2	48.93	210.12
11/7/2022 8:29	61.6	46.8	48.53	209.19
11/7/2022 8:44	61.3	46.5	48.23	208.50
11/7/2022 8:59	61.3	46.5	48.23	208.50
11/7/2022 9:14	61.7	46.9	48.63	209.43
11/7/2022 9:29	62.2	47.4	49.13	210.58
11/7/2022 9:44	62.6	47.8	49.53	211.50
11/7/2022 9:59	62.8	48	49.73	211.97
11/7/2022 10:14	63.3	48.5	50.23	213.12
11/7/2022 10:29	63.4	48.6	50.33	213.35
11/7/2022 10:44	63.7	48.9	50.63	214.05
11/7/2022 10:59	64.1	49.3	51.03	214.97
11/7/2022 11:14	63.9	49.1	50.83	214.51
11/7/2022 11:29	63.6	48.8	50.53	213.81
11/7/2022 11:44	63.4	48.6	50.33	213.35
11/7/2022 11:59	63.2	48.4	50.13	212.89
11/7/2022 12:14	63	48.2	49.93	212.43
11/7/2022 12:29	62.9	48.1	49.83	212.20
11/7/2022 12:44	63.1	48.3	50.03	212.66
11/7/2022 12:59	63.3	48.5	50.23	213.12
11/7/2022 13:14	64.1	49.3	51.03	214.97
11/7/2022 13:29	64.4	49.6	51.33	215.66
11/7/2022 13:44	64.4	49.6	51.33	215.66
11/7/2022 13:59	64.2	49.4	51.13	215.20
11/7/2022 14:14	63.5	48.7	50.43	213.58
11/7/2022 14:29	63.2	48.4	50.13	212.89
11/7/2022 14:44	62.9	48.1	49.83	212.20
11/7/2022 14:59	62.6	47.8	49.53	211.50
11/7/2022 15:14	62.5	47.7	49.43	211.27
11/7/2022 15:29	62.2	47.4	49.13	210.58
11/7/2022 15:44	62	47.2	48.93	210.12
11/7/2022 15:59	61.5	46.7	48.43	208.96
11/7/2022 16:14	61.5	46.7	48.43	208.96

TOWER RD TANK				
Time	Pressure Recorder	Adjusted Pressure at Recorder	Pressure at Tank Footing	Hydraulic Elevation of Water in Tank
11/7/2022 16:29	62.2	47.4	49.13	210.58
11/7/2022 16:44	62.6	47.8	49.53	211.50
11/7/2022 16:59	62.9	48.1	49.83	212.20
11/7/2022 17:14	63	48.2	49.93	212.43
11/7/2022 17:29	63.4	48.6	50.33	213.35
11/7/2022 17:44	63.7	48.9	50.63	214.05
11/7/2022 17:59	64	49.2	50.93	214.74
11/7/2022 18:14	64.3	49.5	51.23	215.43
11/7/2022 18:29	64.4	49.6	51.33	215.66
11/7/2022 18:44	64.1	49.3	51.03	214.97
11/7/2022 18:59	63.7	48.9	50.63	214.05
11/7/2022 19:14	63.4	48.6	50.33	213.35
11/7/2022 19:29	63	48.2	49.93	212.43
11/7/2022 19:44	62.5	47.7	49.43	211.27
11/7/2022 19:59	62	47.2	48.93	210.12
11/7/2022 20:14	61.8	47	48.73	209.66
11/7/2022 20:29	62	47.2	48.93	210.12
11/7/2022 20:44	62.1	47.3	49.03	210.35
11/7/2022 20:59	62.4	47.6	49.33	211.04
11/7/2022 21:14	62.4	47.6	49.33	211.04
11/7/2022 21:29	62.7	47.9	49.63	211.74
11/7/2022 21:44	63	48.2	49.93	212.43
11/7/2022 21:59	62.8	48	49.73	211.97
11/7/2022 22:14	62.4	47.6	49.33	211.04
11/7/2022 22:29	62.1	47.3	49.03	210.35
11/7/2022 22:44	61.7	46.9	48.63	209.43
11/7/2022 22:59	61.4	46.6	48.33	208.73
11/7/2022 23:14	61.6	46.8	48.53	209.19
11/7/2022 23:29	62.1	47.3	49.03	210.35
11/7/2022 23:44	62.3	47.5	49.23	210.81
11/7/2022 23:59	62.7	47.9	49.63	211.74
11/8/2022 0:14	63.1	48.3	50.03	212.66
11/8/2022 0:29	63.6	48.8	50.53	213.81
11/8/2022 0:44	63.7	48.9	50.63	214.05
11/8/2022 0:59	63.3	48.5	50.23	213.12
11/8/2022 1:14	63	48.2	49.93	212.43
11/8/2022 1:29	62.8	48	49.73	211.97
11/8/2022 1:44	62.5	47.7	49.43	211.27
11/8/2022 1:59	62.2	47.4	49.13	210.58
11/8/2022 2:14	62.8	48	49.73	211.97
11/8/2022 2:29	63.4	48.6	50.33	213.35
11/8/2022 2:44	63.9	49.1	50.83	214.51

TOWER RD TANK				
Time	Pressure Recorder	Adjusted Pressure at Recorder	Pressure at Tank Footing	Hydraulic Elevation of Water in Tank
11/8/2022 2:59	64.3	49.5	51.23	215.43
11/8/2022 3:14	64	49.2	50.93	214.74
11/8/2022 3:29	63.6	48.8	50.53	213.81
11/8/2022 3:44	63.5	48.7	50.43	213.58
11/8/2022 3:59	63.1	48.3	50.03	212.66
11/8/2022 4:14	63	48.2	49.93	212.43
11/8/2022 4:29	62.7	47.9	49.63	211.74
11/8/2022 4:44	62.5	47.7	49.43	211.27
11/8/2022 4:59	62.3	47.5	49.23	210.81
11/8/2022 5:14	62.2	47.4	49.13	210.58
11/8/2022 5:29	62	47.2	48.93	210.12
11/8/2022 5:44	62.5	47.7	49.43	211.27
11/8/2022 5:59	63	48.2	49.93	212.43
11/8/2022 6:14	63.6	48.8	50.53	213.81
11/8/2022 6:29	64	49.2	50.93	214.74
11/8/2022 6:44	63.9	49.1	50.83	214.51
11/8/2022 6:59	63.8	49	50.73	214.28
11/8/2022 7:14	63.6	48.8	50.53	213.81
11/8/2022 7:29	63.3	48.5	50.23	213.12
11/8/2022 7:44	63.2	48.4	50.13	212.89
11/8/2022 7:59	62.7	47.9	49.63	211.74
11/8/2022 8:14	62.3	47.5	49.23	210.81
11/8/2022 8:29	62	47.2	48.93	210.12
11/8/2022 8:44	62.2	47.4	49.13	210.58
11/8/2022 8:59	62.5	47.7	49.43	211.27
11/8/2022 9:14	62.9	48.1	49.83	212.20
11/8/2022 9:29	63.6	48.8	50.53	213.81
11/8/2022 9:44	64	49.2	50.93	214.74
11/8/2022 9:59	63.9	49.1	50.83	214.51
11/8/2022 10:14	64.3	49.5	51.23	215.43
11/8/2022 10:29	64.4	49.6	51.33	215.66
11/8/2022 10:44	64	49.2	50.93	214.74
11/8/2022 10:59	63.8	49	50.73	214.28
11/8/2022 11:14	63.4	48.6	50.33	213.35
11/8/2022 11:29	63.3	48.5	50.23	213.12
11/8/2022 11:44	63.6	48.8	50.53	213.81
11/8/2022 11:59	64.1	49.3	51.03	214.97
11/8/2022 12:14	64.3	49.5	51.23	215.43
11/8/2022 12:29	64.6	49.8	51.53	216.12
11/8/2022 12:44	64.2	49.4	51.13	215.20
11/8/2022 12:59	63.9	49.1	50.83	214.51
11/8/2022 13:14	63.4	48.6	50.33	213.35

TOWER RD TANK				
Time	Pressure Recorder	Adjusted Pressure at Recorder	Pressure at Tank Footing	Hydraulic Elevation of Water in Tank
11/8/2022 13:29	63.3	48.5	50.23	213.12
11/8/2022 13:44	62.9	48.1	49.83	212.20
11/8/2022 13:59	62.7	47.9	49.63	211.74
11/8/2022 14:14	62.5	47.7	49.43	211.27
11/8/2022 14:29	62.2	47.4	49.13	210.58
11/8/2022 14:44	62	47.2	48.93	210.12
11/8/2022 14:59	61.6	46.8	48.53	209.19
11/8/2022 15:14	61.4	46.6	48.33	208.73
11/8/2022 15:29	61.1	46.3	48.03	208.04
11/8/2022 15:44	60.7	45.9	47.63	207.12
11/8/2022 15:59	61.1	46.3	48.03	208.04
11/8/2022 16:14	61.4	46.6	48.33	208.73
11/8/2022 16:29	62.1	47.3	49.03	210.35
11/8/2022 16:44	62.3	47.5	49.23	210.81
11/8/2022 16:59	62.7	47.9	49.63	211.74
11/8/2022 17:14	62.8	48	49.73	211.97
11/8/2022 17:29	62.3	47.5	49.23	210.81
11/8/2022 17:44	61.9	47.1	48.83	209.89
11/8/2022 17:59	61.7	46.9	48.63	209.43
11/8/2022 18:14	62.2	47.4	49.13	210.58
11/8/2022 18:29	61.8	47	48.73	209.66
11/8/2022 18:44	61.5	46.7	48.43	208.96
11/8/2022 18:59	61.1	46.3	48.03	208.04
11/8/2022 19:14	61	46.2	47.93	207.81
11/8/2022 19:29	61.3	46.5	48.23	208.50
11/8/2022 19:44	61.5	46.7	48.43	208.96
11/8/2022 19:59	62	47.2	48.93	210.12
11/8/2022 20:14	62.2	47.4	49.13	210.58
11/8/2022 20:29	62.6	47.8	49.53	211.50
11/8/2022 20:44	61.8	47	48.73	209.66
11/8/2022 20:59	61.4	46.6	48.33	208.73
11/8/2022 21:14	61	46.2	47.93	207.81
11/8/2022 21:29	60.6	45.8	47.53	206.88
11/8/2022 21:44	60.9	46.1	47.83	207.58
11/8/2022 21:59	61.2	46.4	48.13	208.27
11/8/2022 22:14	61.6	46.8	48.53	209.19
11/8/2022 22:29	61.8	47	48.73	209.66
11/8/2022 22:44	62	47.2	48.93	210.12
11/8/2022 22:59	62.7	47.9	49.63	211.74
11/8/2022 23:14	63	48.2	49.93	212.43
11/8/2022 23:29	62.7	47.9	49.63	211.74
11/8/2022 23:44	62.3	47.5	49.23	210.81

TOWER RD TANK				
Time	Pressure Recorder	Adjusted Pressure at Recorder	Pressure at Tank Footing	Hydraulic Elevation of Water in Tank
11/8/2022 23:59	62	47.2	48.93	210.12
11/9/2022 0:14	61.6	46.8	48.53	209.19
11/9/2022 0:29	61.6	46.8	48.53	209.19
11/9/2022 0:44	62.2	47.4	49.13	210.58
11/9/2022 0:59	62.5	47.7	49.43	211.27
11/9/2022 1:14	62.8	48	49.73	211.97
11/9/2022 1:29	63.3	48.5	50.23	213.12
11/9/2022 1:44	63.8	49	50.73	214.28
11/9/2022 1:59	63.9	49.1	50.83	214.51
11/9/2022 2:14	63.4	48.6	50.33	213.35
11/9/2022 2:29	63.3	48.5	50.23	213.12
11/9/2022 2:44	62.8	48	49.73	211.97
11/9/2022 2:59	62.7	47.9	49.63	211.74
11/9/2022 3:14	62.6	47.8	49.53	211.50
11/9/2022 3:29	63.1	48.3	50.03	212.66
11/9/2022 3:44	63.4	48.6	50.33	213.35
11/9/2022 3:59	64.1	49.3	51.03	214.97
11/9/2022 4:14	63.7	48.9	50.63	214.05
11/9/2022 4:29	63.2	48.4	50.13	212.89
11/9/2022 4:44	63.1	48.3	50.03	212.66
11/9/2022 4:59	62.8	48	49.73	211.97
11/9/2022 5:14	62.8	48	49.73	211.97
11/9/2022 5:29	63.5	48.7	50.43	213.58
11/9/2022 5:44	63.8	49	50.73	214.28
11/9/2022 5:59	64.3	49.5	51.23	215.43
11/9/2022 6:14	64.5	49.7	51.43	215.89
11/9/2022 6:29	64.2	49.4	51.13	215.20
11/9/2022 6:44	63.9	49.1	50.83	214.51
11/9/2022 6:59	64.2	49.4	51.13	215.20
11/9/2022 7:14	63.7	48.9	50.63	214.05
11/9/2022 7:29	63.4	48.6	50.33	213.35
11/9/2022 7:44	62.9	48.1	49.83	212.20
11/9/2022 7:59	62.6	47.8	49.53	211.50
11/9/2022 8:14	62.2	47.4	49.13	210.58
11/9/2022 8:29	62	47.2	48.93	210.12
11/9/2022 8:44	61.5	46.7	48.43	208.96
11/9/2022 8:59	61.7	46.9	48.63	209.43
11/9/2022 9:14	62.2	47.4	49.13	210.58
11/9/2022 9:29	62.4	47.6	49.33	211.04
11/9/2022 9:44	63	48.2	49.93	212.43
11/9/2022 9:59	63	48.2	49.93	212.43
11/9/2022 10:14	63.3	48.5	50.23	213.12

TOWER RD TANK				
Time	Pressure Recorder	Adjusted Pressure at Recorder	Pressure at Tank Footing	Hydraulic Elevation of Water in Tank
11/9/2022 10:29	63.4	48.6	50.33	213.35
11/9/2022 10:44	64	49.2	50.93	214.74
11/9/2022 10:59	64.2	49.4	51.13	215.20
11/9/2022 11:14	64.6	49.8	51.53	216.12
11/9/2022 11:29	64	49.2	50.93	214.74
11/9/2022 11:44	63.7	48.9	50.63	214.05
11/9/2022 11:59	63.3	48.5	50.23	213.12
11/9/2022 12:14	63	48.2	49.93	212.43
11/9/2022 12:29	62.6	47.8	49.53	211.50
11/9/2022 12:44	63	48.2	49.93	212.43
11/9/2022 12:59	63.3	48.5	50.23	213.12
11/9/2022 13:14	63.6	48.8	50.53	213.81
11/9/2022 13:29	64.1	49.3	51.03	214.97
11/9/2022 13:44	64.4	49.6	51.33	215.66
11/9/2022 13:59	64.4	49.6	51.33	215.66
11/9/2022 14:14	63.8	49	50.73	214.28
11/9/2022 14:29	63.6	48.8	50.53	213.81
11/9/2022 14:44	63.4	48.6	50.33	213.35
11/9/2022 14:59	63	48.2	49.93	212.43
11/9/2022 15:14	62.7	47.9	49.63	211.74
11/9/2022 15:29	62.3	47.5	49.23	210.81
11/9/2022 15:44	61.9	47.1	48.83	209.89
11/9/2022 15:59	61.8	47	48.73	209.66
11/9/2022 16:14	62	47.2	48.93	210.12
11/9/2022 16:29	62.5	47.7	49.43	211.27
11/9/2022 16:44	62.7	47.9	49.63	211.74
11/9/2022 16:59	63.3	48.5	50.23	213.12
11/9/2022 17:14	63.5	48.7	50.43	213.58
11/9/2022 17:29	63.9	49.1	50.83	214.51
11/9/2022 17:44	63.6	48.8	50.53	213.81
11/9/2022 17:59	63.1	48.3	50.03	212.66
11/9/2022 18:14	63	48.2	49.93	212.43
11/9/2022 18:29	62.7	47.9	49.63	211.74
11/9/2022 18:44	62.3	47.5	49.23	210.81
11/9/2022 18:59	61.8	47	48.73	209.66
11/9/2022 19:14	61.4	46.6	48.33	208.73
11/9/2022 19:29	61.8	47	48.73	209.66
11/9/2022 19:44	62	47.2	48.93	210.12
11/9/2022 19:59	62.2	47.4	49.13	210.58
11/9/2022 20:14	62.6	47.8	49.53	211.50
11/9/2022 20:29	62.8	48	49.73	211.97
11/9/2022 20:44	62.9	48.1	49.83	212.20

TOWER RD TANK				
Time	Pressure Recorder	Adjusted Pressure at Recorder	Pressure at Tank Footing	Hydraulic Elevation of Water in Tank
11/9/2022 20:59	63.2	48.4	50.13	212.89
11/9/2022 21:14	62.6	47.8	49.53	211.50
11/9/2022 21:29	62.3	47.5	49.23	210.81
11/9/2022 21:44	61.8	47	48.73	209.66
11/9/2022 21:59	61.5	46.7	48.43	208.96
11/9/2022 22:14	61.5	46.7	48.43	208.96
11/9/2022 22:29	61.9	47.1	48.83	209.89
11/9/2022 22:44	62.1	47.3	49.03	210.35
11/9/2022 22:59	62.7	47.9	49.63	211.74
11/9/2022 23:14	62.8	48	49.73	211.97
11/9/2022 23:29	63.1	48.3	50.03	212.66
11/9/2022 23:44	63.5	48.7	50.43	213.58
11/9/2022 23:59	63.6	48.8	50.53	213.81
11/10/2022 0:14	63.2	48.4	50.13	212.89
11/10/2022 0:29	62.9	48.1	49.83	212.20
11/10/2022 0:44	62.7	47.9	49.63	211.74
11/10/2022 0:59	62.4	47.6	49.33	211.04
11/10/2022 1:14	62.1	47.3	49.03	210.35
11/10/2022 1:29	62.2	47.4	49.13	210.58
11/10/2022 1:44	62.9	48.1	49.83	212.20
11/10/2022 1:59	63.4	48.6	50.33	213.35
11/10/2022 2:14	63.4	48.6	50.33	213.35
11/10/2022 2:29	63	48.2	49.93	212.43
11/10/2022 2:44	62.8	48	49.73	211.97
11/10/2022 2:59	62.4	47.6	49.33	211.04
11/10/2022 3:14	62.4	47.6	49.33	211.04
11/10/2022 3:29	62.3	47.5	49.23	210.81
11/10/2022 3:44	61.9	47.1	48.83	209.89
11/10/2022 3:59	61.7	46.9	48.63	209.43
11/10/2022 4:14	61.4	46.6	48.33	208.73
11/10/2022 4:29	61.9	47.1	48.83	209.89
11/10/2022 4:44	62.5	47.7	49.43	211.27
11/10/2022 4:59	62.9	48.1	49.83	212.20
11/10/2022 5:14	63.3	48.5	50.23	213.12
11/10/2022 5:29	63.3	48.5	50.23	213.12
11/10/2022 5:44	63.1	48.3	50.03	212.66
11/10/2022 5:59	62.8	48	49.73	211.97
11/10/2022 6:14	62.6	47.8	49.53	211.50
11/10/2022 6:29	62.4	47.6	49.33	211.04
11/10/2022 6:44	62	47.2	48.93	210.12
11/10/2022 6:59	61.8	47	48.73	209.66
11/10/2022 7:14	62.4	47.6	49.33	211.04

TOWER RD TANK				
Time	Pressure Recorder	Adjusted Pressure at Recorder	Pressure at Tank Footing	Hydraulic Elevation of Water in Tank
11/10/2022 7:29	62.6	47.8	49.53	211.50
11/10/2022 7:44	62.9	48.1	49.83	212.20
11/10/2022 7:59	63.2	48.4	50.13	212.89
11/10/2022 8:14	63.4	48.6	50.33	213.35
11/10/2022 8:29	63.7	48.9	50.63	214.05
11/10/2022 8:44	63.9	49.1	50.83	214.51
11/10/2022 8:59	64.1	49.3	51.03	214.97
11/10/2022 9:14	64	49.2	50.93	214.74
11/10/2022 9:29	63.6	48.8	50.53	213.81
11/10/2022 9:44	63.5	48.7	50.43	213.58
11/10/2022 9:59	63.2	48.4	50.13	212.89
11/10/2022 10:14	62.5	47.7	49.43	211.27
11/10/2022 10:29	62.4	47.6	49.33	211.04
11/10/2022 10:44	62.7	47.9	49.63	211.74
11/10/2022 10:59	63.1	48.3	50.03	212.66
11/10/2022 11:14	63.4	48.6	50.33	213.35
11/10/2022 11:29	63.7	48.9	50.63	214.05
11/10/2022 11:44	64	49.2	50.93	214.74
11/10/2022 11:59	64.1	49.3	51.03	214.97
11/10/2022 12:14	64.5	49.7	51.43	215.89
11/10/2022 12:29	64.1	49.3	51.03	214.97
11/10/2022 12:44	63.7	48.9	50.63	214.05
11/10/2022 12:59	63.4	48.6	50.33	213.35
11/10/2022 13:14	63	48.2	49.93	212.43
11/10/2022 13:29	62.5	47.7	49.43	211.27
11/10/2022 13:44	62.5	47.7	49.43	211.27
11/10/2022 13:59	62	47.2	48.93	210.12
11/10/2022 14:14	61.8	47	48.73	209.66
11/10/2022 14:29	61.4	46.6	48.33	208.73
11/10/2022 14:44	61.1	46.3	48.03	208.04
11/10/2022 14:59	61	46.2	47.93	207.81
11/10/2022 15:14	60.7	45.9	47.63	207.12
11/10/2022 15:29	60.4	45.6	47.33	206.42
11/10/2022 15:44	61.1	46.3	48.03	208.04
11/10/2022 15:59	61.4	46.6	48.33	208.73
11/10/2022 16:14	61.8	47	48.73	209.66
11/10/2022 16:29	62.1	47.3	49.03	210.35
11/10/2022 16:44	62.6	47.8	49.53	211.50
11/10/2022 16:59	62.9	48.1	49.83	212.20
11/10/2022 17:14	63.3	48.5	50.23	213.12
11/10/2022 17:29	63.6	48.8	50.53	213.81
11/10/2022 17:44	63.9	49.1	50.83	214.51

TOWER RD TANK				
Time	Pressure Recorder	Adjusted Pressure at Recorder	Pressure at Tank Footing	Hydraulic Elevation of Water in Tank
11/10/2022 17:59	64.1	49.3	51.03	214.97
11/10/2022 18:14	63.8	49	50.73	214.28
11/10/2022 18:29	63.3	48.5	50.23	213.12
11/10/2022 18:44	63.4	48.6	50.33	213.35
11/10/2022 18:59	62.8	48	49.73	211.97
11/10/2022 19:14	62.4	47.6	49.33	211.04
11/10/2022 19:29	62	47.2	48.93	210.12
11/10/2022 19:44	61.6	46.8	48.53	209.19
11/10/2022 19:59	61.5	46.7	48.43	208.96
11/10/2022 20:14	61	46.2	47.93	207.81
11/10/2022 20:29	60.5	45.7	47.43	206.65
11/10/2022 20:44	60.1	45.3	47.03	205.73
11/10/2022 20:59	60.8	46	47.73	207.35
11/10/2022 21:14	61.1	46.3	48.03	208.04
11/10/2022 21:29	61.2	46.4	48.13	208.27
11/10/2022 21:44	61.4	46.6	48.33	208.73
11/10/2022 21:59	61.6	46.8	48.53	209.19
11/10/2022 22:14	62	47.2	48.93	210.12
11/10/2022 22:29	62.3	47.5	49.23	210.81
11/10/2022 22:44	62.7	47.9	49.63	211.74
11/10/2022 22:59	63	48.2	49.93	212.43
11/10/2022 23:14	62.5	47.7	49.43	211.27
11/10/2022 23:29	62.2	47.4	49.13	210.58
11/10/2022 23:44	61.8	47	48.73	209.66
11/10/2022 23:59	61.5	46.7	48.43	208.96
11/11/2022 0:14	61.5	46.7	48.43	208.96
11/11/2022 0:29	62	47.2	48.93	210.12
11/11/2022 0:44	62.3	47.5	49.23	210.81
11/11/2022 0:59	62.7	47.9	49.63	211.74
11/11/2022 1:14	63	48.2	49.93	212.43
11/11/2022 1:29	62.8	48	49.73	211.97
11/11/2022 1:44	62.3	47.5	49.23	210.81
11/11/2022 1:59	62.1	47.3	49.03	210.35
11/11/2022 2:14	62	47.2	48.93	210.12
11/11/2022 2:29	61.7	46.9	48.63	209.43
11/11/2022 2:44	62.2	47.4	49.13	210.58
11/11/2022 2:59	62.8	48	49.73	211.97
11/11/2022 3:14	63	48.2	49.93	212.43
11/11/2022 3:29	63.5	48.7	50.43	213.58
11/11/2022 3:44	64	49.2	50.93	214.74
11/11/2022 3:59	64.3	49.5	51.23	215.43
11/11/2022 4:14	64.5	49.7	51.43	215.89

TOWER RD TANK				
Time	Pressure Recorder	Adjusted Pressure at Recorder	Pressure at Tank Footing	Hydraulic Elevation of Water in Tank
11/11/2022 4:29	64.1	49.3	51.03	214.97
11/11/2022 4:44	63.8	49	50.73	214.28
11/11/2022 4:59	63.4	48.6	50.33	213.35
11/11/2022 5:14	63.4	48.6	50.33	213.35
11/11/2022 5:29	63.4	48.6	50.33	213.35
11/11/2022 5:44	64	49.2	50.93	214.74
11/11/2022 5:59	64.2	49.4	51.13	215.20
11/11/2022 6:14	64.8	50	51.73	216.59
11/11/2022 6:29	65.2	50.4	52.13	217.51
11/11/2022 6:44	64.7	49.9	51.63	216.36
11/11/2022 6:59	64.3	49.5	51.23	215.43
11/11/2022 7:14	63.9	49.1	50.83	214.51
11/11/2022 7:29	63.9	49.1	50.83	214.51
11/11/2022 7:44	64.1	49.3	51.03	214.97
11/11/2022 7:59	64.3	49.5	51.23	215.43
11/11/2022 8:14	64.5	49.7	51.43	215.89
11/11/2022 8:29	65	50.2	51.93	217.05
11/11/2022 8:44	65	50.2	51.93	217.05
11/11/2022 8:59	64.7	49.9	51.63	216.36
11/11/2022 9:14	64.3	49.5	51.23	215.43
11/11/2022 9:29	64	49.2	50.93	214.74
11/11/2022 9:44	63.9	49.1	50.83	214.51
11/11/2022 9:59	63.4	48.6	50.33	213.35
11/11/2022 10:14	63	48.2	49.93	212.43
11/11/2022 10:29	62.7	47.9	49.63	211.74
11/11/2022 10:44	62.9	48.1	49.83	212.20
11/11/2022 10:59	63.3	48.5	50.23	213.12
11/11/2022 11:14	63.4	48.6	50.33	213.35
11/11/2022 11:29	63.9	49.1	50.83	214.51
11/11/2022 11:44	64.3	49.5	51.23	215.43
11/11/2022 11:59	64	49.2	50.93	214.74
11/11/2022 12:14	63.6	48.8	50.53	213.81
11/11/2022 12:29	63.3	48.5	50.23	213.12
11/11/2022 12:44	62.9	48.1	49.83	212.20
11/11/2022 12:59	62.6	47.8	49.53	211.50
11/11/2022 13:14	62.5	47.7	49.43	211.27
11/11/2022 13:29	62.2	47.4	49.13	210.58
11/11/2022 13:44	61.6	46.8	48.53	209.19
11/11/2022 13:59	61.4	46.6	48.33	208.73
11/11/2022 14:14	61.4	46.6	48.33	208.73
11/11/2022 14:29	61	46.2	47.93	207.81
11/11/2022 14:44	60.6	45.8	47.53	206.88

TOWER RD TANK				
Time	Pressure Recorder	Adjusted Pressure at Recorder	Pressure at Tank Footing	Hydraulic Elevation of Water in Tank
11/11/2022 14:59	60.7	45.9	47.63	207.12
11/11/2022 15:14	61.1	46.3	48.03	208.04
11/11/2022 15:29	61.6	46.8	48.53	209.19
11/11/2022 15:44	61.9	47.1	48.83	209.89
11/11/2022 15:59	62.5	47.7	49.43	211.27
11/11/2022 16:14	62.6	47.8	49.53	211.50
11/11/2022 16:29	62.8	48	49.73	211.97
11/11/2022 16:44	63.3	48.5	50.23	213.12
11/11/2022 16:59	63.6	48.8	50.53	213.81
11/11/2022 17:14	64	49.2	50.93	214.74
11/11/2022 17:29	64.3	49.5	51.23	215.43
11/11/2022 17:44	63.6	48.8	50.53	213.81
11/11/2022 17:59	63.4	48.6	50.33	213.35
11/11/2022 18:14	63	48.2	49.93	212.43
11/11/2022 18:29	62.7	47.9	49.63	211.74
11/11/2022 18:44	62.3	47.5	49.23	210.81
11/11/2022 18:59	61.9	47.1	48.83	209.89
11/11/2022 19:14	61.5	46.7	48.43	208.96
11/11/2022 19:29	61.2	46.4	48.13	208.27
11/11/2022 19:44	60.9	46.1	47.83	207.58
11/11/2022 19:59	60.9	46.1	47.83	207.58
11/11/2022 20:14	61.2	46.4	48.13	208.27
11/11/2022 20:29	61.8	47	48.73	209.66
11/11/2022 20:44	62	47.2	48.93	210.12
11/11/2022 20:59	62.5	47.7	49.43	211.27
11/11/2022 21:14	62.7	47.9	49.63	211.74
11/11/2022 21:29	63.1	48.3	50.03	212.66
11/11/2022 21:44	63.4	48.6	50.33	213.35
11/11/2022 21:59	63.8	49	50.73	214.28
11/11/2022 22:14	64.1	49.3	51.03	214.97
11/11/2022 22:29	63.9	49.1	50.83	214.51
11/11/2022 22:44	63.7	48.9	50.63	214.05
11/11/2022 22:59	63.3	48.5	50.23	213.12
11/11/2022 23:14	62.9	48.1	49.83	212.20
11/11/2022 23:29	62.6	47.8	49.53	211.50
11/11/2022 23:44	62.2	47.4	49.13	210.58
11/11/2022 23:59	62.7	47.9	49.63	211.74
11/12/2022 0:14	63.1	48.3	50.03	212.66
11/12/2022 0:29	63.5	48.7	50.43	213.58
11/12/2022 0:44	63.6	48.8	50.53	213.81
11/12/2022 0:59	63.3	48.5	50.23	213.12
11/12/2022 1:14	55	40.2	41.93	193.95

TOWER RD TANK				
Time	Pressure Recorder	Adjusted Pressure at Recorder	Pressure at Tank Footing	Hydraulic Elevation of Water in Tank
11/12/2022 1:29	37	22.2	23.93	152.37
11/12/2022 1:44	59.5	44.7	46.43	204.34
11/12/2022 1:59	71.1	56.3	58.03	231.14
11/12/2022 2:14	43	28.2	29.93	166.23
11/12/2022 2:29	43.2	28.4	30.13	166.69
11/12/2022 2:44	28.1	13.3	15.03	131.81
11/12/2022 2:59	-2.2	-17	-15.27	61.82
11/12/2022 3:14	23.9	9.1	10.83	122.11
11/12/2022 3:29	31	16.2	17.93	138.51
11/12/2022 3:44	33	18.2	19.93	143.13
11/12/2022 3:59	34.9	20.1	21.83	147.52
11/12/2022 4:14	34.6	19.8	21.53	146.82
11/12/2022 4:29	35	20.2	21.93	147.75
11/12/2022 4:44	35.7	20.9	22.63	149.37
11/12/2022 4:59	33.1	18.3	20.03	143.36
11/12/2022 5:14	37.9	23.1	24.83	154.45
11/12/2022 5:29	34.8	20	21.73	147.29
11/12/2022 5:44	35	20.2	21.93	147.75
11/12/2022 5:59	28.3	13.5	15.23	132.27
11/12/2022 6:14	28.3	13.5	15.23	132.27
11/12/2022 6:29	28.7	13.9	15.63	133.20
11/12/2022 6:44	29.1	14.3	16.03	134.12
11/12/2022 6:59	29.6	14.8	16.53	135.27
11/12/2022 7:14	29	14.2	15.93	133.89
11/12/2022 7:29	32.1	17.3	19.03	141.05
11/12/2022 7:44	31.5	16.7	18.43	139.66
11/12/2022 7:59	32.5	17.7	19.43	141.97
11/12/2022 8:14	35.1	20.3	22.03	147.98
11/12/2022 8:29	35.1	20.3	22.03	147.98
11/12/2022 8:44	34.2	19.4	21.13	145.90
11/12/2022 8:59	35.2	20.4	22.13	148.21
11/12/2022 9:14	33.2	18.4	20.13	143.59
11/12/2022 9:29	36.4	21.6	23.33	150.98
11/12/2022 9:44	37.1	22.3	24.03	152.60
11/12/2022 9:59	38.9	24.1	25.83	156.76
11/12/2022 10:14	41	26.2	27.93	161.61
11/12/2022 10:29	42.4	27.6	29.33	164.84
11/12/2022 10:44	43.2	28.4	30.13	166.69
11/12/2022 10:59	42.7	27.9	29.63	165.54
11/12/2022 11:14	45.2	30.4	32.13	171.31
11/12/2022 11:29	45.9	31.1	32.83	172.93
11/12/2022 11:44	46.9	32.1	33.83	175.24

TOWER RD TANK				
Time	Pressure Recorder	Adjusted Pressure at Recorder	Pressure at Tank Footing	Hydraulic Elevation of Water in Tank
11/12/2022 11:59	46.7	31.9	33.63	174.78
11/12/2022 12:14	47.8	33	34.73	177.32
11/12/2022 12:29	47.5	32.7	34.43	176.62
11/12/2022 12:44	47.7	32.9	34.63	177.09
11/12/2022 12:59	48.7	33.9	35.63	179.40
11/12/2022 13:14	49.5	34.7	36.43	181.24
11/12/2022 13:29	51.6	36.8	38.53	186.09
11/12/2022 13:44	50.6	35.8	37.53	183.78
11/12/2022 13:59	50.1	35.3	37.03	182.63
11/12/2022 14:14	50.5	35.7	37.43	183.55
11/12/2022 14:29	53.9	39.1	40.83	191.41
11/12/2022 14:44	52.7	37.9	39.63	188.64
11/12/2022 14:59	53.8	39	40.73	191.18
11/12/2022 15:14	53.8	39	40.73	191.18
11/12/2022 15:29	55.5	40.7	42.43	195.10
11/12/2022 15:44	55.9	41.1	42.83	196.03
11/12/2022 15:59	57.5	42.7	44.43	199.72
11/12/2022 16:14	59.5	44.7	46.43	204.34
11/12/2022 16:29	58.9	44.1	45.83	202.96
11/12/2022 16:44	63.9	49.1	50.83	214.51
11/12/2022 16:59	67.4	52.6	54.33	222.59
11/12/2022 17:14	69.1	54.3	56.03	226.52
11/12/2022 17:29	70.6	55.8	57.53	229.98
11/12/2022 17:44	71.1	56.3	58.03	231.14
11/12/2022 17:59	71.6	56.8	58.53	232.29
11/12/2022 18:14	71.8	57	58.73	232.76
11/12/2022 18:29	42.6	27.8	29.53	165.30
11/12/2022 18:44	37.3	22.5	24.23	153.06
11/12/2022 18:59	34	19.2	20.93	145.44
11/12/2022 19:14	0.5	-14.3	-12.57	68.05
11/12/2022 19:29	1.6	-13.2	-11.47	70.59
11/12/2022 19:44	-0.5	-15.3	-13.57	65.74
11/12/2022 19:59	4	-10.8	-9.07	76.14
11/12/2022 20:14	3.6	-11.2	-9.47	75.21
11/12/2022 20:29	1.4	-13.4	-11.67	70.13
11/12/2022 20:44	-1.6	-16.4	-14.67	63.20
11/12/2022 20:59	-3.6	-18.4	-16.67	58.58
11/12/2022 21:14	-6.8	-21.6	-19.87	51.19
11/12/2022 21:29	-8.4	-23.2	-21.47	47.49
11/12/2022 21:44	-9.4	-24.2	-22.47	45.18
11/12/2022 21:59	-11.1	-25.9	-24.17	41.26
11/12/2022 22:14	-35.4	-50.2	-48.47	-14.88

TOWER RD TANK				
Time	Pressure Recorder	Adjusted Pressure at Recorder	Pressure at Tank Footing	Hydraulic Elevation of Water in Tank
11/12/2022 22:29	-35.5	-50.3	-48.57	-15.11
11/12/2022 22:44	-30	-44.8	-43.07	-2.40
11/12/2022 22:59	-27.8	-42.6	-40.87	2.68
11/12/2022 23:14	-24.8	-39.6	-37.87	9.61
11/12/2022 23:29	-24.5	-39.3	-37.57	10.30
11/12/2022 23:44	-24.7	-39.5	-37.77	9.84
11/12/2022 23:59	-23.8	-38.6	-36.87	11.92
11/13/2022 0:14	-24.2	-39	-37.27	11.00
11/13/2022 0:29	-23.8	-38.6	-36.87	11.92
11/13/2022 0:44	-24.4	-39.2	-37.47	10.53
11/13/2022 0:59	-25.8	-40.6	-38.87	7.30
11/13/2022 1:14	-26.6	-41.4	-39.67	5.45
11/13/2022 1:29	-27.4	-42.2	-40.47	3.60
11/13/2022 1:44	-29.5	-44.3	-42.57	-1.25
11/13/2022 1:59	-29	-43.8	-42.07	-0.09
11/13/2022 2:14	-30.1	-44.9	-43.17	-2.63
11/13/2022 2:29	-29.2	-44	-42.27	-0.55
11/13/2022 2:44	-26.4	-41.2	-39.47	5.91
11/13/2022 2:59	-25.7	-40.5	-38.77	7.53
11/13/2022 3:14	-25.5	-40.3	-38.57	7.99
11/13/2022 3:29	-26.9	-41.7	-39.97	4.76
11/13/2022 3:44	-26	-40.8	-39.07	6.84
11/13/2022 3:59	-25.1	-39.9	-38.17	8.92
11/13/2022 4:14	-24.2	-39	-37.27	11.00
11/13/2022 4:29	-23.6	-38.4	-36.67	12.38
11/13/2022 4:44	-22.6	-37.4	-35.67	14.69
11/13/2022 4:59	-21.9	-36.7	-34.97	16.31
11/13/2022 5:14	-21.5	-36.3	-34.57	17.23
11/13/2022 5:29	-20.9	-35.7	-33.97	18.62
11/13/2022 5:44	-20.4	-35.2	-33.47	19.77
11/13/2022 5:59	-20	-34.8	-33.07	20.70
11/13/2022 6:14	-18.9	-33.7	-31.97	23.24
11/13/2022 6:29	-17.9	-32.7	-30.97	25.55
11/13/2022 6:44	-16.7	-31.5	-29.77	28.32
11/13/2022 6:59	-16	-30.8	-29.07	29.94
11/13/2022 7:14	-15.5	-30.3	-28.57	31.09
11/13/2022 7:29	-14.1	-28.9	-27.17	34.33
11/13/2022 7:44	-12.5	-27.3	-25.57	38.02
11/13/2022 7:59	-10.7	-25.5	-23.77	42.18
11/13/2022 8:14	-9.3	-24.1	-22.37	45.42
11/13/2022 8:29	-8.5	-23.3	-21.57	47.26
11/13/2022 8:44	-7.6	-22.4	-20.67	49.34

TOWER RD TANK				
Time	Pressure Recorder	Adjusted Pressure at Recorder	Pressure at Tank Footing	Hydraulic Elevation of Water in Tank
11/13/2022 8:59	-7.2	-22	-20.27	50.27
11/13/2022 9:14	-8.3	-23.1	-21.37	47.73
11/13/2022 9:29	-6.2	-21	-19.27	52.58
11/13/2022 9:44	-8.2	-23	-21.27	47.96
11/13/2022 9:59	-7.1	-21.9	-20.17	50.50
11/13/2022 10:14	-7.8	-22.6	-20.87	48.88
11/13/2022 10:29	-7.7	-22.5	-20.77	49.11
11/13/2022 10:44	-8.6	-23.4	-21.67	47.03
11/13/2022 10:59	-8.7	-23.5	-21.77	46.80
11/13/2022 11:14	-8.2	-23	-21.27	47.96
11/13/2022 11:29	-9	-23.8	-22.07	46.11
11/13/2022 11:44	-17.6	-32.4	-30.67	26.24
11/13/2022 11:59	-19.9	-34.7	-32.97	20.93
11/13/2022 12:14	11.6	-3.2	-1.47	93.69
11/13/2022 12:29	17.8	3	4.73	108.02
11/13/2022 12:44	21.2	6.4	8.13	115.87
11/13/2022 12:59	29.5	14.7	16.43	135.04
11/13/2022 13:14	29.9	15.1	16.83	135.97
11/13/2022 13:29	29.2	14.4	16.13	134.35
11/13/2022 13:44	31.2	16.4	18.13	138.97
11/13/2022 13:59	30.3	15.5	17.23	136.89
11/13/2022 14:14	33.4	18.6	20.33	144.05
11/13/2022 14:29	27.7	12.9	14.63	130.89
11/13/2022 14:44	31.3	16.5	18.23	139.20
11/13/2022 14:59	35.9	21.1	22.83	149.83
11/13/2022 15:14	36.5	21.7	23.43	151.21
11/13/2022 15:29	34.1	19.3	21.03	145.67
11/13/2022 15:44	32	17.2	18.93	140.82
11/13/2022 15:59	33.9	19.1	20.83	145.21
11/13/2022 16:14	33.7	18.9	20.63	144.75
11/13/2022 16:29	34.1	19.3	21.03	145.67
11/13/2022 16:44	35.7	20.9	22.63	149.37
11/13/2022 16:59	36	21.2	22.93	150.06
11/13/2022 17:14	36.1	21.3	23.03	150.29
11/13/2022 17:29	35.5	20.7	22.43	148.90
11/13/2022 17:44	35.8	21	22.73	149.60
11/13/2022 17:59	37.9	23.1	24.83	154.45
11/13/2022 18:14	41.2	26.4	28.13	162.07
11/13/2022 18:29	44.6	29.8	31.53	169.92
11/13/2022 18:44	44	29.2	30.93	168.54
11/13/2022 18:59	43.1	28.3	30.03	166.46
11/13/2022 19:14	42.3	27.5	29.23	164.61

TOWER RD TANK				
Time	Pressure Recorder	Adjusted Pressure at Recorder	Pressure at Tank Footing	Hydraulic Elevation of Water in Tank
11/13/2022 19:29	41.5	26.7	28.43	162.76
11/13/2022 19:44	41.3	26.5	28.23	162.30
11/13/2022 19:59	41.5	26.7	28.43	162.76
11/13/2022 20:14	42.2	27.4	29.13	164.38
11/13/2022 20:29	42.1	27.3	29.03	164.15
11/13/2022 20:44	41.5	26.7	28.43	162.76
11/13/2022 20:59	41	26.2	27.93	161.61
11/13/2022 21:14	40.5	25.7	27.43	160.45
11/13/2022 21:29	41	26.2	27.93	161.61
11/13/2022 21:44	42.1	27.3	29.03	164.15
11/13/2022 21:59	41.4	26.6	28.33	162.53
11/13/2022 22:14	41	26.2	27.93	161.61
11/13/2022 22:29	40.8	26	27.73	161.15
11/13/2022 22:44	40.4	25.6	27.33	160.22
11/13/2022 22:59	39.9	25.1	26.83	159.07
11/13/2022 23:14	39.4	24.6	26.33	157.91
11/13/2022 23:29	39.9	25.1	26.83	159.07
11/13/2022 23:44	40.6	25.8	27.53	160.68
11/13/2022 23:59	41.5	26.7	28.43	162.76
11/14/2022 0:14	41.8	27	28.73	163.46
11/14/2022 0:29	42.4	27.6	29.33	164.84
11/14/2022 0:44	42.8	28	29.73	165.77
11/14/2022 0:59	42.6	27.8	29.53	165.30
11/14/2022 1:14	42.7	27.9	29.63	165.54
11/14/2022 1:29	42.8	28	29.73	165.77
11/14/2022 1:44	43.4	28.6	30.33	167.15
11/14/2022 1:59	43.9	29.1	30.83	168.31
11/14/2022 2:14	44.1	29.3	31.03	168.77
11/14/2022 2:29	44	29.2	30.93	168.54
11/14/2022 2:44	44	29.2	30.93	168.54
11/14/2022 2:59	43.7	28.9	30.63	167.85
11/14/2022 3:14	43.8	29	30.73	168.08
11/14/2022 3:29	43.9	29.1	30.83	168.31
11/14/2022 3:44	44.1	29.3	31.03	168.77
11/14/2022 3:59	44.7	29.9	31.63	170.16
11/14/2022 4:14	45.2	30.4	32.13	171.31
11/14/2022 4:29	45.8	31	32.73	172.70
11/14/2022 4:44	46.2	31.4	33.13	173.62
11/14/2022 4:59	45.8	31	32.73	172.70
11/14/2022 5:14	46.4	31.6	33.33	174.08
11/14/2022 5:29	46.8	32	33.73	175.01
11/14/2022 5:44	47.2	32.4	34.13	175.93

TOWER RD TANK				
Time	Pressure Recorder	Adjusted Pressure at Recorder	Pressure at Tank Footing	Hydraulic Elevation of Water in Tank
11/14/2022 5:59	47.2	32.4	34.13	175.93
11/14/2022 6:14	47	32.2	33.93	175.47
11/14/2022 6:29	47.1	32.3	34.03	175.70
11/14/2022 6:44	47.1	32.3	34.03	175.70
11/14/2022 6:59	47.5	32.7	34.43	176.62
11/14/2022 7:14	47.6	32.8	34.53	176.85
11/14/2022 7:29	47.9	33.1	34.83	177.55
11/14/2022 7:44	48.1	33.3	35.03	178.01
11/14/2022 7:59	48.5	33.7	35.43	178.93
11/14/2022 8:14	48.5	33.7	35.43	178.93
11/14/2022 8:29	48	33.2	34.93	177.78
11/14/2022 8:44	47.5	32.7	34.43	176.62
11/14/2022 8:59	47.2	32.4	34.13	175.93
11/14/2022 9:14	46.4	31.6	33.33	174.08
11/14/2022 9:29	46.3	31.5	33.23	173.85
11/14/2022 9:44	45.5	30.7	32.43	172.00
11/14/2022 9:59	48.5	33.7	35.43	178.93
11/14/2022 10:14	50.2	35.4	37.13	182.86
11/14/2022 10:29	51.8	37	38.73	186.56
11/14/2022 10:44	52.5	37.7	39.43	188.17
11/14/2022 10:59	52.6	37.8	39.53	188.40
11/14/2022 11:14	51	36.2	37.93	184.71
11/14/2022 11:29	51.8	37	38.73	186.56
11/14/2022 11:44	53.3	38.5	40.23	190.02

NORTH TANK				
Time	Pressure Recorder	Adjusted Pressure at Recorder	Pressure at Tank Footing	Hydraulic Elevation of Water in Tank
11/4/2022 14:45	57.5	42.7	43.78	202.08
11/4/2022 15:00	57.5	42.7	43.78	202.08
11/4/2022 15:15	57.7	42.9	43.98	202.54
11/4/2022 15:30	57.7	42.9	43.98	202.54
11/4/2022 15:45	57.8	43	44.08	202.77
11/4/2022 16:00	57.9	43.1	44.18	203.01
11/4/2022 16:15	58	43.2	44.28	203.24
11/4/2022 16:30	58	43.2	44.28	203.24
11/4/2022 16:45	58	43.2	44.28	203.24
11/4/2022 17:00	57.9	43.1	44.18	203.01
11/4/2022 17:15	57.8	43	44.08	202.77
11/4/2022 17:30	57.7	42.9	43.98	202.54
11/4/2022 17:45	57.7	42.9	43.98	202.54
11/4/2022 18:00	57.5	42.7	43.78	202.08
11/4/2022 18:15	57.4	42.6	43.68	201.85
11/4/2022 18:30	57.3	42.5	43.58	201.62
11/4/2022 18:45	57.4	42.6	43.68	201.85
11/4/2022 19:00	57.4	42.6	43.68	201.85
11/4/2022 19:15	57.4	42.6	43.68	201.85
11/4/2022 19:30	57.4	42.6	43.68	201.85
11/4/2022 19:45	57.4	42.6	43.68	201.85
11/4/2022 20:00	57.3	42.5	43.58	201.62
11/4/2022 20:15	57.3	42.5	43.58	201.62
11/4/2022 20:30	57.2	42.4	43.48	201.39
11/4/2022 20:45	57.1	42.3	43.38	201.16
11/4/2022 21:00	57.1	42.3	43.38	201.16
11/4/2022 21:15	57.2	42.4	43.48	201.39
11/4/2022 21:30	57.2	42.4	43.48	201.39
11/4/2022 21:45	57.3	42.5	43.58	201.62
11/4/2022 22:00	57.3	42.5	43.58	201.62
11/4/2022 22:15	57.3	42.5	43.58	201.62
11/4/2022 22:30	57.4	42.6	43.68	201.85
11/4/2022 22:45	57.4	42.6	43.68	201.85
11/4/2022 23:00	57.4	42.6	43.68	201.85
11/4/2022 23:15	57.3	42.5	43.58	201.62
11/4/2022 23:30	57.3	42.5	43.58	201.62
11/4/2022 23:45	57.4	42.6	43.68	201.85
11/5/2022 0:00	57.4	42.6	43.68	201.85
11/5/2022 0:15	57.5	42.7	43.78	202.08
11/5/2022 0:30	57.7	42.9	43.98	202.54
11/5/2022 0:45	57.8	43	44.08	202.77
11/5/2022 1:00	58	43.2	44.28	203.24

NORTH TANK				
Time	Pressure Recorder	Adjusted Pressure at Recorder	Pressure at Tank Footing	Hydraulic Elevation of Water in Tank
11/5/2022 1:15	58.2	43.4	44.48	203.70
11/5/2022 1:30	58.2	43.4	44.48	203.70
11/5/2022 1:45	58.3	43.5	44.58	203.93
11/5/2022 2:00	58.4	43.6	44.68	204.16
11/5/2022 2:15	58.4	43.6	44.68	204.16
11/5/2022 2:30	58.4	43.6	44.68	204.16
11/5/2022 2:45	58.5	43.7	44.78	204.39
11/5/2022 3:00	58.6	43.8	44.88	204.62
11/5/2022 3:15	58.8	44	45.08	205.08
11/5/2022 3:30	58.8	44	45.08	205.08
11/5/2022 3:45	59	44.2	45.28	205.55
11/5/2022 4:00	59	44.2	45.28	205.55
11/5/2022 4:15	59	44.2	45.28	205.55
11/5/2022 4:30	58.9	44.1	45.18	205.32
11/5/2022 4:45	58.9	44.1	45.18	205.32
11/5/2022 5:00	58.9	44.1	45.18	205.32
11/5/2022 5:15	58.8	44	45.08	205.08
11/5/2022 5:30	58.8	44	45.08	205.08
11/5/2022 5:45	58.7	43.9	44.98	204.85
11/5/2022 6:00	58.7	43.9	44.98	204.85
11/5/2022 6:15	58.5	43.7	44.78	204.39
11/5/2022 6:30	58.4	43.6	44.68	204.16
11/5/2022 6:45	58.3	43.5	44.58	203.93
11/5/2022 7:00	58.1	43.3	44.38	203.47
11/5/2022 7:15	58	43.2	44.28	203.24
11/5/2022 7:30	58	43.2	44.28	203.24
11/5/2022 7:45	58	43.2	44.28	203.24
11/5/2022 8:00	58	43.2	44.28	203.24
11/5/2022 8:15	58.1	43.3	44.38	203.47
11/5/2022 8:30	58.1	43.3	44.38	203.47
11/5/2022 8:45	58.1	43.3	44.38	203.47
11/5/2022 9:00	58.2	43.4	44.48	203.70
11/5/2022 9:15	58.3	43.5	44.58	203.93
11/5/2022 9:30	58.4	43.6	44.68	204.16
11/5/2022 9:45	58.4	43.6	44.68	204.16
11/5/2022 10:00	58.5	43.7	44.78	204.39
11/5/2022 10:15	58.5	43.7	44.78	204.39
11/5/2022 10:30	58.4	43.6	44.68	204.16
11/5/2022 10:45	58.4	43.6	44.68	204.16
11/5/2022 11:00	58.3	43.5	44.58	203.93
11/5/2022 11:15	58.3	43.5	44.58	203.93
11/5/2022 11:30	58.2	43.4	44.48	203.70

NORTH TANK				
Time	Pressure Recorder	Adjusted Pressure at Recorder	Pressure at Tank Footing	Hydraulic Elevation of Water in Tank
11/5/2022 11:45	58.3	43.5	44.58	203.93
11/5/2022 12:00	58.3	43.5	44.58	203.93
11/5/2022 12:15	58.2	43.4	44.48	203.70
11/5/2022 12:30	58.1	43.3	44.38	203.47
11/5/2022 12:45	57.9	43.1	44.18	203.01
11/5/2022 13:00	57.8	43	44.08	202.77
11/5/2022 13:15	57.6	42.8	43.88	202.31
11/5/2022 13:30	57.4	42.6	43.68	201.85
11/5/2022 13:45	57.2	42.4	43.48	201.39
11/5/2022 14:00	57.1	42.3	43.38	201.16
11/5/2022 14:15	56.9	42.1	43.18	200.70
11/5/2022 14:30	56.9	42.1	43.18	200.70
11/5/2022 14:45	56.8	42	43.08	200.46
11/5/2022 15:00	56.8	42	43.08	200.46
11/5/2022 15:15	56.9	42.1	43.18	200.70
11/5/2022 15:30	56.8	42	43.08	200.46
11/5/2022 15:45	56.9	42.1	43.18	200.70
11/5/2022 16:00	57	42.2	43.28	200.93
11/5/2022 16:15	57	42.2	43.28	200.93
11/5/2022 16:30	57	42.2	43.28	200.93
11/5/2022 16:45	57.1	42.3	43.38	201.16
11/5/2022 17:00	57.1	42.3	43.38	201.16
11/5/2022 17:15	57.1	42.3	43.38	201.16
11/5/2022 17:30	57	42.2	43.28	200.93
11/5/2022 17:45	57	42.2	43.28	200.93
11/5/2022 18:00	56.9	42.1	43.18	200.70
11/5/2022 18:15	56.8	42	43.08	200.46
11/5/2022 18:30	56.7	41.9	42.98	200.23
11/5/2022 18:45	56.6	41.8	42.88	200.00
11/5/2022 19:00	56.5	41.7	42.78	199.77
11/5/2022 19:15	56.6	41.8	42.88	200.00
11/5/2022 19:30	56.6	41.8	42.88	200.00
11/5/2022 19:45	56.6	41.8	42.88	200.00
11/5/2022 20:00	56.6	41.8	42.88	200.00
11/5/2022 20:15	56.7	41.9	42.98	200.23
11/5/2022 20:30	56.7	41.9	42.98	200.23
11/5/2022 20:45	56.7	41.9	42.98	200.23
11/5/2022 21:00	56.7	41.9	42.98	200.23
11/5/2022 21:15	56.7	41.9	42.98	200.23
11/5/2022 21:30	56.8	42	43.08	200.46
11/5/2022 21:45	57	42.2	43.28	200.93
11/5/2022 22:00	57.1	42.3	43.38	201.16

NORTH TANK				
Time	Pressure Recorder	Adjusted Pressure at Recorder	Pressure at Tank Footing	Hydraulic Elevation of Water in Tank
11/5/2022 22:15	57.3	42.5	43.58	201.62
11/5/2022 22:30	57.3	42.5	43.58	201.62
11/5/2022 22:45	57.4	42.6	43.68	201.85
11/5/2022 23:00	57.4	42.6	43.68	201.85
11/5/2022 23:15	57.4	42.6	43.68	201.85
11/5/2022 23:30	57.4	42.6	43.68	201.85
11/5/2022 23:45	57.4	42.6	43.68	201.85
11/6/2022 0:00	57.6	42.8	43.88	202.31
11/6/2022 0:15	57.7	42.9	43.98	202.54
11/6/2022 0:30	57.8	43	44.08	202.77
11/6/2022 0:45	57.9	43.1	44.18	203.01
11/6/2022 1:00	58.1	43.3	44.38	203.47
11/6/2022 1:15	58.2	43.4	44.48	203.70
11/6/2022 1:30	58.3	43.5	44.58	203.93
11/6/2022 1:45	58.4	43.6	44.68	204.16
11/6/2022 2:00	58.5	43.7	44.78	204.39
11/6/2022 2:15	58.5	43.7	44.78	204.39
11/6/2022 2:30	58.5	43.7	44.78	204.39
11/6/2022 2:45	58.5	43.7	44.78	204.39
11/6/2022 3:00	58.5	43.7	44.78	204.39
11/6/2022 3:15	58.6	43.8	44.88	204.62
11/6/2022 3:30	58.7	43.9	44.98	204.85
11/6/2022 3:45	58.5	43.7	44.78	204.39
11/6/2022 4:00	58.4	43.6	44.68	204.16
11/6/2022 4:15	58.4	43.6	44.68	204.16
11/6/2022 4:30	58.4	43.6	44.68	204.16
11/6/2022 4:45	58.3	43.5	44.58	203.93
11/6/2022 5:00	58.2	43.4	44.48	203.70
11/6/2022 5:15	58.4	43.6	44.68	204.16
11/6/2022 5:30	58.4	43.6	44.68	204.16
11/6/2022 5:45	58.4	43.6	44.68	204.16
11/6/2022 6:00	58.6	43.8	44.88	204.62
11/6/2022 6:15	58.7	43.9	44.98	204.85
11/6/2022 6:30	58.8	44	45.08	205.08
11/6/2022 6:45	58.8	44	45.08	205.08
11/6/2022 7:00	58.8	44	45.08	205.08
11/6/2022 7:15	58.9	44.1	45.18	205.32
11/6/2022 7:30	59	44.2	45.28	205.55
11/6/2022 7:45	59.1	44.3	45.38	205.78
11/6/2022 8:00	59.1	44.3	45.38	205.78
11/6/2022 8:15	59.1	44.3	45.38	205.78
11/6/2022 8:30	59	44.2	45.28	205.55

NORTH TANK				
Time	Pressure Recorder	Adjusted Pressure at Recorder	Pressure at Tank Footing	Hydraulic Elevation of Water in Tank
11/6/2022 8:45	59	44.2	45.28	205.55
11/6/2022 9:00	58.9	44.1	45.18	205.32
11/6/2022 9:15	58.8	44	45.08	205.08
11/6/2022 9:30	58.8	44	45.08	205.08
11/6/2022 9:45	58.9	44.1	45.18	205.32
11/6/2022 10:00	58.9	44.1	45.18	205.32
11/6/2022 10:15	59.1	44.3	45.38	205.78
11/6/2022 10:30	59	44.2	45.28	205.55
11/6/2022 10:45	59.1	44.3	45.38	205.78
11/6/2022 11:00	59.1	44.3	45.38	205.78
11/6/2022 11:15	58.9	44.1	45.18	205.32
11/6/2022 11:30	58.8	44	45.08	205.08
11/6/2022 11:45	58.8	44	45.08	205.08
11/6/2022 12:00	58.6	43.8	44.88	204.62
11/6/2022 12:15	58.6	43.8	44.88	204.62
11/6/2022 12:30	58.6	43.8	44.88	204.62
11/6/2022 12:45	58.7	43.9	44.98	204.85
11/6/2022 13:00	58.4	43.6	44.68	204.16
11/6/2022 13:15	58.4	43.6	44.68	204.16
11/6/2022 13:30	58.4	43.6	44.68	204.16
11/6/2022 13:45	58.5	43.7	44.78	204.39
11/6/2022 14:00	58.7	43.9	44.98	204.85
11/6/2022 14:15	58.6	43.8	44.88	204.62
11/6/2022 14:30	58.7	43.9	44.98	204.85
11/6/2022 14:45	58.7	43.9	44.98	204.85
11/6/2022 15:00	58.8	44	45.08	205.08
11/6/2022 15:15	58.9	44.1	45.18	205.32
11/6/2022 15:30	59	44.2	45.28	205.55
11/6/2022 15:45	59	44.2	45.28	205.55
11/6/2022 16:00	59.1	44.3	45.38	205.78
11/6/2022 16:15	59.1	44.3	45.38	205.78
11/6/2022 16:30	59.1	44.3	45.38	205.78
11/6/2022 16:45	59	44.2	45.28	205.55
11/6/2022 17:00	58.8	44	45.08	205.08
11/6/2022 17:15	58.6	43.8	44.88	204.62
11/6/2022 17:30	58.6	43.8	44.88	204.62
11/6/2022 17:45	58.4	43.6	44.68	204.16
11/6/2022 18:00	58.1	43.3	44.38	203.47
11/6/2022 18:15	57.8	43	44.08	202.77
11/6/2022 18:30	57.7	42.9	43.98	202.54
11/6/2022 18:45	57.5	42.7	43.78	202.08
11/6/2022 19:00	57.3	42.5	43.58	201.62

NORTH TANK				
Time	Pressure Recorder	Adjusted Pressure at Recorder	Pressure at Tank Footing	Hydraulic Elevation of Water in Tank
11/6/2022 19:15	57.1	42.3	43.38	201.16
11/6/2022 19:30	57.1	42.3	43.38	201.16
11/6/2022 19:45	57	42.2	43.28	200.93
11/6/2022 20:00	57	42.2	43.28	200.93
11/6/2022 20:15	56.8	42	43.08	200.46
11/6/2022 20:30	56.6	41.8	42.88	200.00
11/6/2022 20:45	56.5	41.7	42.78	199.77
11/6/2022 21:00	56.4	41.6	42.68	199.54
11/6/2022 21:15	56.4	41.6	42.68	199.54
11/6/2022 21:30	56.4	41.6	42.68	199.54
11/6/2022 21:45	56.4	41.6	42.68	199.54
11/6/2022 22:00	56.4	41.6	42.68	199.54
11/6/2022 22:15	56.5	41.7	42.78	199.77
11/6/2022 22:30	56.4	41.6	42.68	199.54
11/6/2022 22:45	56.6	41.8	42.88	200.00
11/6/2022 23:00	56.6	41.8	42.88	200.00
11/6/2022 23:15	56.6	41.8	42.88	200.00
11/6/2022 23:30	56.6	41.8	42.88	200.00
11/6/2022 23:45	56.6	41.8	42.88	200.00
11/7/2022 0:00	56.6	41.8	42.88	200.00
11/7/2022 0:15	56.6	41.8	42.88	200.00
11/7/2022 0:30	56.6	41.8	42.88	200.00
11/7/2022 0:45	56.8	42	43.08	200.46
11/7/2022 1:00	56.9	42.1	43.18	200.70
11/7/2022 1:15	57	42.2	43.28	200.93
11/7/2022 1:30	57.1	42.3	43.38	201.16
11/7/2022 1:45	57.1	42.3	43.38	201.16
11/7/2022 2:00	57.3	42.5	43.58	201.62
11/7/2022 2:15	57.4	42.6	43.68	201.85
11/7/2022 2:30	57.5	42.7	43.78	202.08
11/7/2022 2:45	57.5	42.7	43.78	202.08
11/7/2022 3:00	57.5	42.7	43.78	202.08
11/7/2022 3:15	57.6	42.8	43.88	202.31
11/7/2022 3:30	57.7	42.9	43.98	202.54
11/7/2022 3:45	57.7	42.9	43.98	202.54
11/7/2022 4:00	57.7	42.9	43.98	202.54
11/7/2022 4:15	57.7	42.9	43.98	202.54
11/7/2022 4:30	57.7	42.9	43.98	202.54
11/7/2022 4:45	57.6	42.8	43.88	202.31
11/7/2022 5:00	57.6	42.8	43.88	202.31
11/7/2022 5:15	57.7	42.9	43.98	202.54
11/7/2022 5:30	57.7	42.9	43.98	202.54

NORTH TANK				
Time	Pressure Recorder	Adjusted Pressure at Recorder	Pressure at Tank Footing	Hydraulic Elevation of Water in Tank
11/7/2022 5:45	57.7	42.9	43.98	202.54
11/7/2022 6:00	57.7	42.9	43.98	202.54
11/7/2022 6:15	57.9	43.1	44.18	203.01
11/7/2022 6:30	57.9	43.1	44.18	203.01
11/7/2022 6:45	58	43.2	44.28	203.24
11/7/2022 7:00	58.1	43.3	44.38	203.47
11/7/2022 7:15	58	43.2	44.28	203.24
11/7/2022 7:30	58	43.2	44.28	203.24
11/7/2022 7:45	57.9	43.1	44.18	203.01
11/7/2022 8:00	57.7	42.9	43.98	202.54
11/7/2022 8:15	57.6	42.8	43.88	202.31
11/7/2022 8:30	57.5	42.7	43.78	202.08
11/7/2022 8:45	57.3	42.5	43.58	201.62
11/7/2022 9:00	57.3	42.5	43.58	201.62
11/7/2022 9:15	57.4	42.6	43.68	201.85
11/7/2022 9:30	57.3	42.5	43.58	201.62
11/7/2022 9:45	57.3	42.5	43.58	201.62
11/7/2022 10:00	57.5	42.7	43.78	202.08
11/7/2022 10:15	57.5	42.7	43.78	202.08
11/7/2022 10:30	57.5	42.7	43.78	202.08
11/7/2022 10:45	57.6	42.8	43.88	202.31
11/7/2022 11:00	57.9	43.1	44.18	203.01
11/7/2022 11:15	57.9	43.1	44.18	203.01
11/7/2022 11:30	57.9	43.1	44.18	203.01
11/7/2022 11:45	58	43.2	44.28	203.24
11/7/2022 12:00	58	43.2	44.28	203.24
11/7/2022 12:15	57.9	43.1	44.18	203.01
11/7/2022 12:30	57.9	43.1	44.18	203.01
11/7/2022 12:45	58	43.2	44.28	203.24
11/7/2022 13:00	58	43.2	44.28	203.24
11/7/2022 13:15	58	43.2	44.28	203.24
11/7/2022 13:30	58.1	43.3	44.38	203.47
11/7/2022 13:45	58.2	43.4	44.48	203.70
11/7/2022 14:00	58.3	43.5	44.58	203.93
11/7/2022 14:15	58.3	43.5	44.58	203.93
11/7/2022 14:30	58.3	43.5	44.58	203.93
11/7/2022 14:45	58.3	43.5	44.58	203.93
11/7/2022 15:00	58.2	43.4	44.48	203.70
11/7/2022 15:15	58.2	43.4	44.48	203.70
11/7/2022 15:30	58.2	43.4	44.48	203.70
11/7/2022 15:45	58.1	43.3	44.38	203.47
11/7/2022 16:00	58	43.2	44.28	203.24

NORTH TANK				
Time	Pressure Recorder	Adjusted Pressure at Recorder	Pressure at Tank Footing	Hydraulic Elevation of Water in Tank
11/7/2022 16:15	58	43.2	44.28	203.24
11/7/2022 16:30	58.1	43.3	44.38	203.47
11/7/2022 16:45	58.1	43.3	44.38	203.47
11/7/2022 17:00	58.1	43.3	44.38	203.47
11/7/2022 17:15	58.2	43.4	44.48	203.70
11/7/2022 17:30	58.3	43.5	44.58	203.93
11/7/2022 17:45	58.4	43.6	44.68	204.16
11/7/2022 18:00	58.5	43.7	44.78	204.39
11/7/2022 18:15	58.5	43.7	44.78	204.39
11/7/2022 18:30	58.5	43.7	44.78	204.39
11/7/2022 18:45	58.6	43.8	44.88	204.62
11/7/2022 19:00	58.5	43.7	44.78	204.39
11/7/2022 19:15	58.4	43.6	44.68	204.16
11/7/2022 19:30	58.3	43.5	44.58	203.93
11/7/2022 19:45	58.2	43.4	44.48	203.70
11/7/2022 20:00	58.1	43.3	44.38	203.47
11/7/2022 20:15	58	43.2	44.28	203.24
11/7/2022 20:30	57.9	43.1	44.18	203.01
11/7/2022 20:45	57.8	43	44.08	202.77
11/7/2022 21:00	57.9	43.1	44.18	203.01
11/7/2022 21:15	57.9	43.1	44.18	203.01
11/7/2022 21:30	57.9	43.1	44.18	203.01
11/7/2022 21:45	57.8	43	44.08	202.77
11/7/2022 22:00	57.8	43	44.08	202.77
11/7/2022 22:15	57.7	42.9	43.98	202.54
11/7/2022 22:30	57.6	42.8	43.88	202.31
11/7/2022 22:45	57.5	42.7	43.78	202.08
11/7/2022 23:00	57.4	42.6	43.68	201.85
11/7/2022 23:15	57.3	42.5	43.58	201.62
11/7/2022 23:30	57.4	42.6	43.68	201.85
11/7/2022 23:45	57.4	42.6	43.68	201.85
11/8/2022 0:00	57.4	42.6	43.68	201.85
11/8/2022 0:15	57.5	42.7	43.78	202.08
11/8/2022 0:30	57.6	42.8	43.88	202.31
11/8/2022 0:45	57.7	42.9	43.98	202.54
11/8/2022 1:00	57.8	43	44.08	202.77
11/8/2022 1:15	57.7	42.9	43.98	202.54
11/8/2022 1:30	57.8	43	44.08	202.77
11/8/2022 1:45	58	43.2	44.28	203.24
11/8/2022 2:00	58	43.2	44.28	203.24
11/8/2022 2:15	58	43.2	44.28	203.24
11/8/2022 2:30	58.1	43.3	44.38	203.47

NORTH TANK				
Time	Pressure Recorder	Adjusted Pressure at Recorder	Pressure at Tank Footing	Hydraulic Elevation of Water in Tank
11/8/2022 2:45	58.3	43.5	44.58	203.93
11/8/2022 3:00	58.4	43.6	44.68	204.16
11/8/2022 3:15	58.5	43.7	44.78	204.39
11/8/2022 3:30	58.5	43.7	44.78	204.39
11/8/2022 3:45	58.6	43.8	44.88	204.62
11/8/2022 4:00	58.7	43.9	44.98	204.85
11/8/2022 4:15	58.7	43.9	44.98	204.85
11/8/2022 4:30	58.6	43.8	44.88	204.62
11/8/2022 4:45	58.7	43.9	44.98	204.85
11/8/2022 5:00	58.7	43.9	44.98	204.85
11/8/2022 5:15	58.7	43.9	44.98	204.85
11/8/2022 5:30	58.7	43.9	44.98	204.85
11/8/2022 5:45	58.7	43.9	44.98	204.85
11/8/2022 6:00	58.8	44	45.08	205.08
11/8/2022 6:15	58.9	44.1	45.18	205.32
11/8/2022 6:30	59	44.2	45.28	205.55
11/8/2022 6:45	59	44.2	45.28	205.55
11/8/2022 7:00	59.1	44.3	45.38	205.78
11/8/2022 7:15	59	44.2	45.28	205.55
11/8/2022 7:30	58.9	44.1	45.18	205.32
11/8/2022 7:45	58.8	44	45.08	205.08
11/8/2022 8:00	58.6	43.8	44.88	204.62
11/8/2022 8:15	58.5	43.7	44.78	204.39
11/8/2022 8:30	58.4	43.6	44.68	204.16
11/8/2022 8:45	58.4	43.6	44.68	204.16
11/8/2022 9:00	58.4	43.6	44.68	204.16
11/8/2022 9:15	58.5	43.7	44.78	204.39
11/8/2022 9:30	58.7	43.9	44.98	204.85
11/8/2022 9:45	58.7	43.9	44.98	204.85
11/8/2022 10:00	58.8	44	45.08	205.08
11/8/2022 10:15	58.9	44.1	45.18	205.32
11/8/2022 10:30	58.9	44.1	45.18	205.32
11/8/2022 10:45	59	44.2	45.28	205.55
11/8/2022 11:00	58.8	44	45.08	205.08
11/8/2022 11:15	59	44.2	45.28	205.55
11/8/2022 11:30	59	44.2	45.28	205.55
11/8/2022 11:45	59.1	44.3	45.38	205.78
11/8/2022 12:00	59.1	44.3	45.38	205.78
11/8/2022 12:15	59.1	44.3	45.38	205.78
11/8/2022 12:30	59.2	44.4	45.48	206.01
11/8/2022 12:45	59.1	44.3	45.38	205.78
11/8/2022 13:00	59.1	44.3	45.38	205.78

NORTH TANK				
Time	Pressure Recorder	Adjusted Pressure at Recorder	Pressure at Tank Footing	Hydraulic Elevation of Water in Tank
11/8/2022 13:15	59	44.2	45.28	205.55
11/8/2022 13:30	58.9	44.1	45.18	205.32
11/8/2022 13:45	58.8	44	45.08	205.08
11/8/2022 14:00	58.8	44	45.08	205.08
11/8/2022 14:15	58.7	43.9	44.98	204.85
11/8/2022 14:30	58.5	43.7	44.78	204.39
11/8/2022 14:45	58.4	43.6	44.68	204.16
11/8/2022 15:00	58.1	43.3	44.38	203.47
11/8/2022 15:15	58	43.2	44.28	203.24
11/8/2022 15:30	57.9	43.1	44.18	203.01
11/8/2022 15:45	57.7	42.9	43.98	202.54
11/8/2022 16:00	57.7	42.9	43.98	202.54
11/8/2022 16:15	57.7	42.9	43.98	202.54
11/8/2022 16:30	57.7	42.9	43.98	202.54
11/8/2022 16:45	57.7	42.9	43.98	202.54
11/8/2022 17:00	57.8	43	44.08	202.77
11/8/2022 17:15	57.8	43	44.08	202.77
11/8/2022 17:30	57.7	42.9	43.98	202.54
11/8/2022 17:45	57.7	42.9	43.98	202.54
11/8/2022 18:00	57.6	42.8	43.88	202.31
11/8/2022 18:15	57.6	42.8	43.88	202.31
11/8/2022 18:30	57.4	42.6	43.68	201.85
11/8/2022 18:45	57.3	42.5	43.58	201.62
11/8/2022 19:00	57.1	42.3	43.38	201.16
11/8/2022 19:15	57	42.2	43.28	200.93
11/8/2022 19:30	56.9	42.1	43.18	200.70
11/8/2022 19:45	56.9	42.1	43.18	200.70
11/8/2022 20:00	56.9	42.1	43.18	200.70
11/8/2022 20:15	56.9	42.1	43.18	200.70
11/8/2022 20:30	56.9	42.1	43.18	200.70
11/8/2022 20:45	56.8	42	43.08	200.46
11/8/2022 21:00	56.6	41.8	42.88	200.00
11/8/2022 21:15	56.5	41.7	42.78	199.77
11/8/2022 21:30	56.3	41.5	42.58	199.31
11/8/2022 21:45	56.3	41.5	42.58	199.31
11/8/2022 22:00	56.3	41.5	42.58	199.31
11/8/2022 22:15	56.3	41.5	42.58	199.31
11/8/2022 22:30	56.3	41.5	42.58	199.31
11/8/2022 22:45	56.3	41.5	42.58	199.31
11/8/2022 23:00	56.3	41.5	42.58	199.31
11/8/2022 23:15	56.4	41.6	42.68	199.54
11/8/2022 23:30	56.4	41.6	42.68	199.54

NORTH TANK				
Time	Pressure Recorder	Adjusted Pressure at Recorder	Pressure at Tank Footing	Hydraulic Elevation of Water in Tank
11/8/2022 23:45	56.3	41.5	42.58	199.31
11/9/2022 0:00	56.3	41.5	42.58	199.31
11/9/2022 0:15	56.3	41.5	42.58	199.31
11/9/2022 0:30	56.4	41.6	42.68	199.54
11/9/2022 0:45	56.5	41.7	42.78	199.77
11/9/2022 1:00	56.6	41.8	42.88	200.00
11/9/2022 1:15	56.7	41.9	42.98	200.23
11/9/2022 1:30	56.7	41.9	42.98	200.23
11/9/2022 1:45	57	42.2	43.28	200.93
11/9/2022 2:00	57.2	42.4	43.48	201.39
11/9/2022 2:15	57.1	42.3	43.38	201.16
11/9/2022 2:30	57.3	42.5	43.58	201.62
11/9/2022 2:45	57.3	42.5	43.58	201.62
11/9/2022 3:00	57.3	42.5	43.58	201.62
11/9/2022 3:15	57.3	42.5	43.58	201.62
11/9/2022 3:30	57.4	42.6	43.68	201.85
11/9/2022 3:45	57.5	42.7	43.78	202.08
11/9/2022 4:00	57.6	42.8	43.88	202.31
11/9/2022 4:15	57.6	42.8	43.88	202.31
11/9/2022 4:30	57.5	42.7	43.78	202.08
11/9/2022 4:45	57.6	42.8	43.88	202.31
11/9/2022 5:00	57.6	42.8	43.88	202.31
11/9/2022 5:15	57.6	42.8	43.88	202.31
11/9/2022 5:30	57.6	42.8	43.88	202.31
11/9/2022 5:45	57.7	42.9	43.98	202.54
11/9/2022 6:00	57.7	42.9	43.98	202.54
11/9/2022 6:15	57.7	42.9	43.98	202.54
11/9/2022 6:30	57.7	42.9	43.98	202.54
11/9/2022 6:45	57.7	42.9	43.98	202.54
11/9/2022 7:00	57.7	42.9	43.98	202.54
11/9/2022 7:15	57.6	42.8	43.88	202.31
11/9/2022 7:30	57.5	42.7	43.78	202.08
11/9/2022 7:45	57.4	42.6	43.68	201.85
11/9/2022 8:00	57.3	42.5	43.58	201.62
11/9/2022 8:15	57.2	42.4	43.48	201.39
11/9/2022 8:30	57.2	42.4	43.48	201.39
11/9/2022 8:45	57	42.2	43.28	200.93
11/9/2022 9:00	57.1	42.3	43.38	201.16
11/9/2022 9:15	57.1	42.3	43.38	201.16
11/9/2022 9:30	57.2	42.4	43.48	201.39
11/9/2022 9:45	57.2	42.4	43.48	201.39
11/9/2022 10:00	57.3	42.5	43.58	201.62

NORTH TANK				
Time	Pressure Recorder	Adjusted Pressure at Recorder	Pressure at Tank Footing	Hydraulic Elevation of Water in Tank
11/9/2022 10:15	57.4	42.6	43.68	201.85
11/9/2022 10:30	57.4	42.6	43.68	201.85
11/9/2022 10:45	57.5	42.7	43.78	202.08
11/9/2022 11:00	57.6	42.8	43.88	202.31
11/9/2022 11:15	57.8	43	44.08	202.77
11/9/2022 11:30	57.7	42.9	43.98	202.54
11/9/2022 11:45	57.7	42.9	43.98	202.54
11/9/2022 12:00	57.7	42.9	43.98	202.54
11/9/2022 12:15	57.6	42.8	43.88	202.31
11/9/2022 12:30	57.6	42.8	43.88	202.31
11/9/2022 12:45	57.6	42.8	43.88	202.31
11/9/2022 13:00	57.7	42.9	43.98	202.54
11/9/2022 13:15	57.8	43	44.08	202.77
11/9/2022 13:30	57.8	43	44.08	202.77
11/9/2022 13:45	58	43.2	44.28	203.24
11/9/2022 14:00	58	43.2	44.28	203.24
11/9/2022 14:15	58.1	43.3	44.38	203.47
11/9/2022 14:30	58.1	43.3	44.38	203.47
11/9/2022 14:45	58.1	43.3	44.38	203.47
11/9/2022 15:00	58	43.2	44.28	203.24
11/9/2022 15:15	57.8	43	44.08	202.77
11/9/2022 15:30	57.8	43	44.08	202.77
11/9/2022 15:45	57.7	42.9	43.98	202.54
11/9/2022 16:00	57.7	42.9	43.98	202.54
11/9/2022 16:15	57.7	42.9	43.98	202.54
11/9/2022 16:30	57.7	42.9	43.98	202.54
11/9/2022 16:45	57.8	43	44.08	202.77
11/9/2022 17:00	57.8	43	44.08	202.77
11/9/2022 17:15	57.9	43.1	44.18	203.01
11/9/2022 17:30	58	43.2	44.28	203.24
11/9/2022 17:45	58	43.2	44.28	203.24
11/9/2022 18:00	57.9	43.1	44.18	203.01
11/9/2022 18:15	57.8	43	44.08	202.77
11/9/2022 18:30	57.7	42.9	43.98	202.54
11/9/2022 18:45	57.6	42.8	43.88	202.31
11/9/2022 19:00	57.5	42.7	43.78	202.08
11/9/2022 19:15	57.3	42.5	43.58	201.62
11/9/2022 19:30	57.3	42.5	43.58	201.62
11/9/2022 19:45	57.3	42.5	43.58	201.62
11/9/2022 20:00	57.3	42.5	43.58	201.62
11/9/2022 20:15	57.3	42.5	43.58	201.62
11/9/2022 20:30	57.3	42.5	43.58	201.62

NORTH TANK				
Time	Pressure Recorder	Adjusted Pressure at Recorder	Pressure at Tank Footing	Hydraulic Elevation of Water in Tank
11/9/2022 20:45	57.3	42.5	43.58	201.62
11/9/2022 21:00	57.3	42.5	43.58	201.62
11/9/2022 21:15	57.2	42.4	43.48	201.39
11/9/2022 21:30	57.2	42.4	43.48	201.39
11/9/2022 21:45	57.1	42.3	43.38	201.16
11/9/2022 22:00	57	42.2	43.28	200.93
11/9/2022 22:15	56.9	42.1	43.18	200.70
11/9/2022 22:30	56.9	42.1	43.18	200.70
11/9/2022 22:45	57	42.2	43.28	200.93
11/9/2022 23:00	57	42.2	43.28	200.93
11/9/2022 23:15	57.1	42.3	43.38	201.16
11/9/2022 23:30	57.1	42.3	43.38	201.16
11/9/2022 23:45	57.2	42.4	43.48	201.39
11/10/2022 0:00	57.3	42.5	43.58	201.62
11/10/2022 0:15	57.2	42.4	43.48	201.39
11/10/2022 0:30	57.3	42.5	43.58	201.62
11/10/2022 0:45	57.3	42.5	43.58	201.62
11/10/2022 1:00	57.3	42.5	43.58	201.62
11/10/2022 1:15	57.3	42.5	43.58	201.62
11/10/2022 1:30	57.3	42.5	43.58	201.62
11/10/2022 1:45	57.5	42.7	43.78	202.08
11/10/2022 2:00	57.5	42.7	43.78	202.08
11/10/2022 2:15	57.6	42.8	43.88	202.31
11/10/2022 2:30	57.7	42.9	43.98	202.54
11/10/2022 2:45	57.7	42.9	43.98	202.54
11/10/2022 3:00	57.7	42.9	43.98	202.54
11/10/2022 3:15	57.7	42.9	43.98	202.54
11/10/2022 3:30	57.7	42.9	43.98	202.54
11/10/2022 3:45	57.7	42.9	43.98	202.54
11/10/2022 4:00	57.6	42.8	43.88	202.31
11/10/2022 4:15	57.7	42.9	43.98	202.54
11/10/2022 4:30	57.7	42.9	43.98	202.54
11/10/2022 4:45	57.7	42.9	43.98	202.54
11/10/2022 5:00	57.9	43.1	44.18	203.01
11/10/2022 5:15	58	43.2	44.28	203.24
11/10/2022 5:30	58	43.2	44.28	203.24
11/10/2022 5:45	58	43.2	44.28	203.24
11/10/2022 6:00	58.1	43.3	44.38	203.47
11/10/2022 6:15	58	43.2	44.28	203.24
11/10/2022 6:30	57.9	43.1	44.18	203.01
11/10/2022 6:45	57.8	43	44.08	202.77
11/10/2022 7:00	57.8	43	44.08	202.77

NORTH TANK				
Time	Pressure Recorder	Adjusted Pressure at Recorder	Pressure at Tank Footing	Hydraulic Elevation of Water in Tank
11/10/2022 7:15	57.8	43	44.08	202.77
11/10/2022 7:30	57.7	42.9	43.98	202.54
11/10/2022 7:45	57.7	42.9	43.98	202.54
11/10/2022 8:00	57.8	43	44.08	202.77
11/10/2022 8:15	57.8	43	44.08	202.77
11/10/2022 8:30	57.9	43.1	44.18	203.01
11/10/2022 8:45	58	43.2	44.28	203.24
11/10/2022 9:00	58	43.2	44.28	203.24
11/10/2022 9:15	58.1	43.3	44.38	203.47
11/10/2022 9:30	58	43.2	44.28	203.24
11/10/2022 9:45	58	43.2	44.28	203.24
11/10/2022 10:00	57.9	43.1	44.18	203.01
11/10/2022 10:15	57.8	43	44.08	202.77
11/10/2022 10:30	57.7	42.9	43.98	202.54
11/10/2022 10:45	57.7	42.9	43.98	202.54
11/10/2022 11:00	57.9	43.1	44.18	203.01
11/10/2022 11:15	57.7	42.9	43.98	202.54
11/10/2022 11:30	57.9	43.1	44.18	203.01
11/10/2022 11:45	58	43.2	44.28	203.24
11/10/2022 12:00	58.1	43.3	44.38	203.47
11/10/2022 12:15	58.1	43.3	44.38	203.47
11/10/2022 12:30	58.1	43.3	44.38	203.47
11/10/2022 12:45	58.1	43.3	44.38	203.47
11/10/2022 13:00	58	43.2	44.28	203.24
11/10/2022 13:15	58	43.2	44.28	203.24
11/10/2022 13:30	57.9	43.1	44.18	203.01
11/10/2022 13:45	57.8	43	44.08	202.77
11/10/2022 14:00	57.7	42.9	43.98	202.54
11/10/2022 14:15	57.7	42.9	43.98	202.54
11/10/2022 14:30	57.6	42.8	43.88	202.31
11/10/2022 14:45	57.4	42.6	43.68	201.85
11/10/2022 15:00	57.3	42.5	43.58	201.62
11/10/2022 15:15	57.1	42.3	43.38	201.16
11/10/2022 15:30	57	42.2	43.28	200.93
11/10/2022 15:45	57	42.2	43.28	200.93
11/10/2022 16:00	57.1	42.3	43.38	201.16
11/10/2022 16:15	57.1	42.3	43.38	201.16
11/10/2022 16:30	57.2	42.4	43.48	201.39
11/10/2022 16:45	57.3	42.5	43.58	201.62
11/10/2022 17:00	57.3	42.5	43.58	201.62
11/10/2022 17:15	57.4	42.6	43.68	201.85
11/10/2022 17:30	57.6	42.8	43.88	202.31

NORTH TANK				
Time	Pressure Recorder	Adjusted Pressure at Recorder	Pressure at Tank Footing	Hydraulic Elevation of Water in Tank
11/10/2022 17:45	57.6	42.8	43.88	202.31
11/10/2022 18:00	57.6	42.8	43.88	202.31
11/10/2022 18:15	57.7	42.9	43.98	202.54
11/10/2022 18:30	57.6	42.8	43.88	202.31
11/10/2022 18:45	57.6	42.8	43.88	202.31
11/10/2022 19:00	57.4	42.6	43.68	201.85
11/10/2022 19:15	57.4	42.6	43.68	201.85
11/10/2022 19:30	57.3	42.5	43.58	201.62
11/10/2022 19:45	57.1	42.3	43.38	201.16
11/10/2022 20:00	57.1	42.3	43.38	201.16
11/10/2022 20:15	56.9	42.1	43.18	200.70
11/10/2022 20:30	56.8	42	43.08	200.46
11/10/2022 20:45	56.6	41.8	42.88	200.00
11/10/2022 21:00	56.6	41.8	42.88	200.00
11/10/2022 21:15	56.6	41.8	42.88	200.00
11/10/2022 21:30	56.6	41.8	42.88	200.00
11/10/2022 21:45	56.6	41.8	42.88	200.00
11/10/2022 22:00	56.6	41.8	42.88	200.00
11/10/2022 22:15	56.7	41.9	42.98	200.23
11/10/2022 22:30	56.7	41.9	42.98	200.23
11/10/2022 22:45	56.7	41.9	42.98	200.23
11/10/2022 23:00	56.7	41.9	42.98	200.23
11/10/2022 23:15	56.6	41.8	42.88	200.00
11/10/2022 23:30	56.7	41.9	42.98	200.23
11/10/2022 23:45	56.6	41.8	42.88	200.00
11/11/2022 0:00	56.5	41.7	42.78	199.77
11/11/2022 0:15	56.5	41.7	42.78	199.77
11/11/2022 0:30	56.6	41.8	42.88	200.00
11/11/2022 0:45	56.8	42	43.08	200.46
11/11/2022 1:00	56.9	42.1	43.18	200.70
11/11/2022 1:15	56.9	42.1	43.18	200.70
11/11/2022 1:30	57	42.2	43.28	200.93
11/11/2022 1:45	57.1	42.3	43.38	201.16
11/11/2022 2:00	57.1	42.3	43.38	201.16
11/11/2022 2:15	57.1	42.3	43.38	201.16
11/11/2022 2:30	57	42.2	43.28	200.93
11/11/2022 2:45	57.2	42.4	43.48	201.39
11/11/2022 3:00	57.4	42.6	43.68	201.85
11/11/2022 3:15	57.4	42.6	43.68	201.85
11/11/2022 3:30	57.7	42.9	43.98	202.54
11/11/2022 3:45	57.7	42.9	43.98	202.54
11/11/2022 4:00	57.9	43.1	44.18	203.01

NORTH TANK				
Time	Pressure Recorder	Adjusted Pressure at Recorder	Pressure at Tank Footing	Hydraulic Elevation of Water in Tank
11/11/2022 4:15	57.9	43.1	44.18	203.01
11/11/2022 4:30	58	43.2	44.28	203.24
11/11/2022 4:45	58.1	43.3	44.38	203.47
11/11/2022 5:00	58.1	43.3	44.38	203.47
11/11/2022 5:15	58.1	43.3	44.38	203.47
11/11/2022 5:30	58.2	43.4	44.48	203.70
11/11/2022 5:45	58.3	43.5	44.58	203.93
11/11/2022 6:00	58.4	43.6	44.68	204.16
11/11/2022 6:15	58.5	43.7	44.78	204.39
11/11/2022 6:30	58.5	43.7	44.78	204.39
11/11/2022 6:45	58.5	43.7	44.78	204.39
11/11/2022 7:00	58.6	43.8	44.88	204.62
11/11/2022 7:15	58.5	43.7	44.78	204.39
11/11/2022 7:30	58.5	43.7	44.78	204.39
11/11/2022 7:45	58.5	43.7	44.78	204.39
11/11/2022 8:00	58.7	43.9	44.98	204.85
11/11/2022 8:15	58.6	43.8	44.88	204.62
11/11/2022 8:30	58.7	43.9	44.98	204.85
11/11/2022 8:45	58.8	44	45.08	205.08
11/11/2022 9:00	58.8	44	45.08	205.08
11/11/2022 9:15	58.8	44	45.08	205.08
11/11/2022 9:30	58.7	43.9	44.98	204.85
11/11/2022 9:45	58.8	44	45.08	205.08
11/11/2022 10:00	58.6	43.8	44.88	204.62
11/11/2022 10:15	58.5	43.7	44.78	204.39
11/11/2022 10:30	58.4	43.6	44.68	204.16
11/11/2022 10:45	58.4	43.6	44.68	204.16
11/11/2022 11:00	58.5	43.7	44.78	204.39
11/11/2022 11:15	58.5	43.7	44.78	204.39
11/11/2022 11:30	58.6	43.8	44.88	204.62
11/11/2022 11:45	58.8	44	45.08	205.08
11/11/2022 12:00	58.8	44	45.08	205.08
11/11/2022 12:15	58.7	43.9	44.98	204.85
11/11/2022 12:30	58.6	43.8	44.88	204.62
11/11/2022 12:45	58.5	43.7	44.78	204.39
11/11/2022 13:00	58.4	43.6	44.68	204.16
11/11/2022 13:15	58.4	43.6	44.68	204.16
11/11/2022 13:30	58.3	43.5	44.58	203.93
11/11/2022 13:45	58.2	43.4	44.48	203.70
11/11/2022 14:00	58.1	43.3	44.38	203.47
11/11/2022 14:15	57.9	43.1	44.18	203.01
11/11/2022 14:30	57.8	43	44.08	202.77

NORTH TANK				
Time	Pressure Recorder	Adjusted Pressure at Recorder	Pressure at Tank Footing	Hydraulic Elevation of Water in Tank
11/11/2022 14:45	57.6	42.8	43.88	202.31
11/11/2022 15:00	57.5	42.7	43.78	202.08
11/11/2022 15:15	57.5	42.7	43.78	202.08
11/11/2022 15:30	57.6	42.8	43.88	202.31
11/11/2022 15:45	57.7	42.9	43.98	202.54
11/11/2022 16:00	57.8	43	44.08	202.77
11/11/2022 16:15	57.7	42.9	43.98	202.54
11/11/2022 16:30	57.8	43	44.08	202.77
11/11/2022 16:45	57.8	43	44.08	202.77
11/11/2022 17:00	57.9	43.1	44.18	203.01
11/11/2022 17:15	58	43.2	44.28	203.24
11/11/2022 17:30	58.1	43.3	44.38	203.47
11/11/2022 17:45	58.1	43.3	44.38	203.47
11/11/2022 18:00	58.1	43.3	44.38	203.47
11/11/2022 18:15	57.9	43.1	44.18	203.01
11/11/2022 18:30	57.8	43	44.08	202.77
11/11/2022 18:45	57.7	42.9	43.98	202.54
11/11/2022 19:00	57.5	42.7	43.78	202.08
11/11/2022 19:15	57.4	42.6	43.68	201.85
11/11/2022 19:30	57.2	42.4	43.48	201.39
11/11/2022 19:45	57.1	42.3	43.38	201.16
11/11/2022 20:00	57.2	42.4	43.48	201.39
11/11/2022 20:15	57.2	42.4	43.48	201.39
11/11/2022 20:30	57.3	42.5	43.58	201.62
11/11/2022 20:45	57.3	42.5	43.58	201.62
11/11/2022 21:00	57.4	42.6	43.68	201.85
11/11/2022 21:15	57.5	42.7	43.78	202.08
11/11/2022 21:30	57.6	42.8	43.88	202.31
11/11/2022 21:45	57.6	42.8	43.88	202.31
11/11/2022 22:00	57.9	43.1	44.18	203.01
11/11/2022 22:15	57.9	43.1	44.18	203.01
11/11/2022 22:30	57.9	43.1	44.18	203.01
11/11/2022 22:45	57.9	43.1	44.18	203.01
11/11/2022 23:00	58	43.2	44.28	203.24
11/11/2022 23:15	57.9	43.1	44.18	203.01
11/11/2022 23:30	57.7	42.9	43.98	202.54
11/11/2022 23:45	57.7	42.9	43.98	202.54
11/12/2022 0:00	57.8	43	44.08	202.77
11/12/2022 0:15	57.8	43	44.08	202.77
11/12/2022 0:30	58	43.2	44.28	203.24
11/12/2022 0:45	58.1	43.3	44.38	203.47
11/12/2022 1:00	58.2	43.4	44.48	203.70

NORTH TANK				
Time	Pressure Recorder	Adjusted Pressure at Recorder	Pressure at Tank Footing	Hydraulic Elevation of Water in Tank
11/12/2022 1:15	58.2	43.4	44.48	203.70
11/12/2022 1:30	58.3	43.5	44.58	203.93
11/12/2022 1:45	58.3	43.5	44.58	203.93
11/12/2022 2:00	58.4	43.6	44.68	204.16
11/12/2022 2:15	58.5	43.7	44.78	204.39
11/12/2022 2:30	58.8	44	45.08	205.08
11/12/2022 2:45	58.9	44.1	45.18	205.32
11/12/2022 3:00	59	44.2	45.28	205.55
11/12/2022 3:15	59.2	44.4	45.48	206.01
11/12/2022 3:30	59.3	44.5	45.58	206.24
11/12/2022 3:45	59.3	44.5	45.58	206.24
11/12/2022 4:00	59.3	44.5	45.58	206.24
11/12/2022 4:15	59.4	44.6	45.68	206.47
11/12/2022 4:30	59.5	44.7	45.78	206.70
11/12/2022 4:45	59.6	44.8	45.88	206.93
11/12/2022 5:00	59.7	44.9	45.98	207.16
11/12/2022 5:15	59.9	45.1	46.18	207.63
11/12/2022 5:30	59.9	45.1	46.18	207.63
11/12/2022 5:45	59.9	45.1	46.18	207.63
11/12/2022 6:00	60	45.2	46.28	207.86
11/12/2022 6:15	59.9	45.1	46.18	207.63
11/12/2022 6:30	60	45.2	46.28	207.86
11/12/2022 6:45	60	45.2	46.28	207.86
11/12/2022 7:00	60	45.2	46.28	207.86
11/12/2022 7:15	60	45.2	46.28	207.86
11/12/2022 7:30	59.9	45.1	46.18	207.63
11/12/2022 7:45	60	45.2	46.28	207.86
11/12/2022 8:00	60	45.2	46.28	207.86
11/12/2022 8:15	60.1	45.3	46.38	208.09
11/12/2022 8:30	60.2	45.4	46.48	208.32
11/12/2022 8:45	60.2	45.4	46.48	208.32
11/12/2022 9:00	60.2	45.4	46.48	208.32
11/12/2022 9:15	60.1	45.3	46.38	208.09
11/12/2022 9:30	60.1	45.3	46.38	208.09
11/12/2022 9:45	60	45.2	46.28	207.86
11/12/2022 10:00	59.9	45.1	46.18	207.63
11/12/2022 10:15	59.9	45.1	46.18	207.63
11/12/2022 10:30	60	45.2	46.28	207.86
11/12/2022 10:45	60	45.2	46.28	207.86
11/12/2022 11:00	60.1	45.3	46.38	208.09
11/12/2022 11:15	60.1	45.3	46.38	208.09
11/12/2022 11:30	60	45.2	46.28	207.86

NORTH TANK				
Time	Pressure Recorder	Adjusted Pressure at Recorder	Pressure at Tank Footing	Hydraulic Elevation of Water in Tank
11/12/2022 11:45	59.9	45.1	46.18	207.63
11/12/2022 12:00	59.8	45	46.08	207.39
11/12/2022 12:15	59.8	45	46.08	207.39
11/12/2022 12:30	59.8	45	46.08	207.39
11/12/2022 12:45	59.5	44.7	45.78	206.70
11/12/2022 13:00	59.5	44.7	45.78	206.70
11/12/2022 13:15	59.3	44.5	45.58	206.24
11/12/2022 13:30	59.1	44.3	45.38	205.78
11/12/2022 13:45	59.1	44.3	45.38	205.78
11/12/2022 14:00	58.9	44.1	45.18	205.32
11/12/2022 14:15	58.8	44	45.08	205.08
11/12/2022 14:30	58.6	43.8	44.88	204.62
11/12/2022 14:45	58.5	43.7	44.78	204.39
11/12/2022 15:00	58.4	43.6	44.68	204.16
11/12/2022 15:15	58.5	43.7	44.78	204.39
11/12/2022 15:30	58.5	43.7	44.78	204.39
11/12/2022 15:45	58.7	43.9	44.98	204.85
11/12/2022 16:00	58.8	44	45.08	205.08
11/12/2022 16:15	58.9	44.1	45.18	205.32
11/12/2022 16:30	59	44.2	45.28	205.55
11/12/2022 16:45	59.1	44.3	45.38	205.78
11/12/2022 17:00	59.1	44.3	45.38	205.78
11/12/2022 17:15	59.1	44.3	45.38	205.78
11/12/2022 17:30	59.1	44.3	45.38	205.78
11/12/2022 17:45	59.1	44.3	45.38	205.78
11/12/2022 18:00	59.1	44.3	45.38	205.78
11/12/2022 18:15	58.9	44.1	45.18	205.32
11/12/2022 18:30	58.9	44.1	45.18	205.32
11/12/2022 18:45	59	44.2	45.28	205.55
11/12/2022 19:00	59	44.2	45.28	205.55
11/12/2022 19:15	59.1	44.3	45.38	205.78
11/12/2022 19:30	59.2	44.4	45.48	206.01
11/12/2022 19:45	59.3	44.5	45.58	206.24
11/12/2022 20:00	59.3	44.5	45.58	206.24
11/12/2022 20:15	59.3	44.5	45.58	206.24
11/12/2022 20:30	59.3	44.5	45.58	206.24
11/12/2022 20:45	59.3	44.5	45.58	206.24
11/12/2022 21:00	59.2	44.4	45.48	206.01
11/12/2022 21:15	59.2	44.4	45.48	206.01
11/12/2022 21:30	59.3	44.5	45.58	206.24
11/12/2022 21:45	59.4	44.6	45.68	206.47
11/12/2022 22:00	59.5	44.7	45.78	206.70

NORTH TANK				
Time	Pressure Recorder	Adjusted Pressure at Recorder	Pressure at Tank Footing	Hydraulic Elevation of Water in Tank
11/12/2022 22:15	59.5	44.7	45.78	206.70
11/12/2022 22:30	59.7	44.9	45.98	207.16
11/12/2022 22:45	59.7	44.9	45.98	207.16
11/12/2022 23:00	59.7	44.9	45.98	207.16
11/12/2022 23:15	59.6	44.8	45.88	206.93
11/12/2022 23:30	59.5	44.7	45.78	206.70
11/12/2022 23:45	59.5	44.7	45.78	206.70
11/13/2022 0:00	59.5	44.7	45.78	206.70
11/13/2022 0:15	59.6	44.8	45.88	206.93
11/13/2022 0:30	59.7	44.9	45.98	207.16
11/13/2022 0:45	59.7	44.9	45.98	207.16
11/13/2022 1:00	59.7	44.9	45.98	207.16
11/13/2022 1:15	59.6	44.8	45.88	206.93
11/13/2022 1:30	59.6	44.8	45.88	206.93
11/13/2022 1:45	59.6	44.8	45.88	206.93
11/13/2022 2:00	59.6	44.8	45.88	206.93
11/13/2022 2:15	59.6	44.8	45.88	206.93
11/13/2022 2:30	59.5	44.7	45.78	206.70
11/13/2022 2:45	59.5	44.7	45.78	206.70
11/13/2022 3:00	59.4	44.6	45.68	206.47
11/13/2022 3:15	59.4	44.6	45.68	206.47
11/13/2022 3:30	59.3	44.5	45.58	206.24
11/13/2022 3:45	59.2	44.4	45.48	206.01
11/13/2022 4:00	59.3	44.5	45.58	206.24
11/13/2022 4:15	59.4	44.6	45.68	206.47
11/13/2022 4:30	59.5	44.7	45.78	206.70
11/13/2022 4:45	59.6	44.8	45.88	206.93
11/13/2022 5:00	59.7	44.9	45.98	207.16
11/13/2022 5:15	59.7	44.9	45.98	207.16
11/13/2022 5:30	59.7	44.9	45.98	207.16
11/13/2022 5:45	59.8	45	46.08	207.39
11/13/2022 6:00	59.7	44.9	45.98	207.16
11/13/2022 6:15	59.8	45	46.08	207.39
11/13/2022 6:30	59.6	44.8	45.88	206.93
11/13/2022 6:45	59.6	44.8	45.88	206.93
11/13/2022 7:00	59.6	44.8	45.88	206.93
11/13/2022 7:15	59.5	44.7	45.78	206.70
11/13/2022 7:30	59.5	44.7	45.78	206.70
11/13/2022 7:45	59.6	44.8	45.88	206.93
11/13/2022 8:00	59.8	45	46.08	207.39
11/13/2022 8:15	59.8	45	46.08	207.39
11/13/2022 8:30	59.8	45	46.08	207.39

NORTH TANK				
Time	Pressure Recorder	Adjusted Pressure at Recorder	Pressure at Tank Footing	Hydraulic Elevation of Water in Tank
11/13/2022 8:45	59.7	44.9	45.98	207.16
11/13/2022 9:00	59.8	45	46.08	207.39
11/13/2022 9:15	59.7	44.9	45.98	207.16
11/13/2022 9:30	59.9	45.1	46.18	207.63
11/13/2022 9:45	59.9	45.1	46.18	207.63
11/13/2022 10:00	60	45.2	46.28	207.86
11/13/2022 10:15	59.9	45.1	46.18	207.63
11/13/2022 10:30	60	45.2	46.28	207.86
11/13/2022 10:45	59.9	45.1	46.18	207.63
11/13/2022 11:00	59.7	44.9	45.98	207.16
11/13/2022 11:15	59.7	44.9	45.98	207.16
11/13/2022 11:30	59.8	45	46.08	207.39
11/13/2022 11:45	59.6	44.8	45.88	206.93
11/13/2022 12:00	59.5	44.7	45.78	206.70
11/13/2022 12:15	59.4	44.6	45.68	206.47
11/13/2022 12:30	59.2	44.4	45.48	206.01
11/13/2022 12:45	59.1	44.3	45.38	205.78
11/13/2022 13:00	59	44.2	45.28	205.55
11/13/2022 13:15	59	44.2	45.28	205.55
11/13/2022 13:30	59	44.2	45.28	205.55
11/13/2022 13:45	59.1	44.3	45.38	205.78
11/13/2022 14:00	59.2	44.4	45.48	206.01
11/13/2022 14:15	59.2	44.4	45.48	206.01
11/13/2022 14:30	59.3	44.5	45.58	206.24
11/13/2022 14:45	59.5	44.7	45.78	206.70
11/13/2022 15:00	59.5	44.7	45.78	206.70
11/13/2022 15:15	59.6	44.8	45.88	206.93
11/13/2022 15:30	59.5	44.7	45.78	206.70
11/13/2022 15:45	59.5	44.7	45.78	206.70
11/13/2022 16:00	59.4	44.6	45.68	206.47
11/13/2022 16:15	59.4	44.6	45.68	206.47
11/13/2022 16:30	59.4	44.6	45.68	206.47
11/13/2022 16:45	59.4	44.6	45.68	206.47
11/13/2022 17:00	59.5	44.7	45.78	206.70
11/13/2022 17:15	59.5	44.7	45.78	206.70
11/13/2022 17:30	59.5	44.7	45.78	206.70
11/13/2022 17:45	59.5	44.7	45.78	206.70
11/13/2022 18:00	59.6	44.8	45.88	206.93
11/13/2022 18:15	59.5	44.7	45.78	206.70
11/13/2022 18:30	59.5	44.7	45.78	206.70
11/13/2022 18:45	59.5	44.7	45.78	206.70
11/13/2022 19:00	59.5	44.7	45.78	206.70

NORTH TANK				
Time	Pressure Recorder	Adjusted Pressure at Recorder	Pressure at Tank Footing	Hydraulic Elevation of Water in Tank
11/13/2022 19:15	59.4	44.6	45.68	206.47
11/13/2022 19:30	59.3	44.5	45.58	206.24
11/13/2022 19:45	59.4	44.6	45.68	206.47
11/13/2022 20:00	59.4	44.6	45.68	206.47
11/13/2022 20:15	59.5	44.7	45.78	206.70
11/13/2022 20:30	59.5	44.7	45.78	206.70
11/13/2022 20:45	59.6	44.8	45.88	206.93
11/13/2022 21:00	59.6	44.8	45.88	206.93
11/13/2022 21:15	59.6	44.8	45.88	206.93
11/13/2022 21:30	59.7	44.9	45.98	207.16
11/13/2022 21:45	59.7	44.9	45.98	207.16
11/13/2022 22:00	59.6	44.8	45.88	206.93
11/13/2022 22:15	59.6	44.8	45.88	206.93
11/13/2022 22:30	59.6	44.8	45.88	206.93
11/13/2022 22:45	59.5	44.7	45.78	206.70
11/13/2022 23:00	59.4	44.6	45.68	206.47
11/13/2022 23:15	59.3	44.5	45.58	206.24
11/13/2022 23:30	59.2	44.4	45.48	206.01
11/13/2022 23:45	59.4	44.6	45.68	206.47
11/14/2022 0:00	59.3	44.5	45.58	206.24
11/14/2022 0:15	59.5	44.7	45.78	206.70
11/14/2022 0:30	59.6	44.8	45.88	206.93
11/14/2022 0:45	59.7	44.9	45.98	207.16
11/14/2022 1:00	59.8	45	46.08	207.39
11/14/2022 1:15	59.7	44.9	45.98	207.16
11/14/2022 1:30	59.9	45.1	46.18	207.63
11/14/2022 1:45	59.9	45.1	46.18	207.63
11/14/2022 2:00	59.9	45.1	46.18	207.63
11/14/2022 2:15	60	45.2	46.28	207.86
11/14/2022 2:30	60	45.2	46.28	207.86
11/14/2022 2:45	59.9	45.1	46.18	207.63
11/14/2022 3:00	60	45.2	46.28	207.86
11/14/2022 3:15	59.9	45.1	46.18	207.63
11/14/2022 3:30	59.9	45.1	46.18	207.63
11/14/2022 3:45	59.9	45.1	46.18	207.63
11/14/2022 4:00	59.9	45.1	46.18	207.63
11/14/2022 4:15	60	45.2	46.28	207.86
11/14/2022 4:30	60.1	45.3	46.38	208.09
11/14/2022 4:45	60.2	45.4	46.48	208.32
11/14/2022 5:00	60.2	45.4	46.48	208.32
11/14/2022 5:15	60.1	45.3	46.38	208.09
11/14/2022 5:30	60.1	45.3	46.38	208.09

NORTH TANK				
Time	Pressure Recorder	Adjusted Pressure at Recorder	Pressure at Tank Footing	Hydraulic Elevation of Water in Tank
11/14/2022 5:45	60.1	45.3	46.38	208.09
11/14/2022 6:00	60	45.2	46.28	207.86
11/14/2022 6:15	59.9	45.1	46.18	207.63
11/14/2022 6:30	59.8	45	46.08	207.39
11/14/2022 6:45	59.7	44.9	45.98	207.16
11/14/2022 7:00	59.6	44.8	45.88	206.93
11/14/2022 7:15	59.7	44.9	45.98	207.16
11/14/2022 7:30	59.7	44.9	45.98	207.16
11/14/2022 7:45	59.7	44.9	45.98	207.16
11/14/2022 8:00	59.7	44.9	45.98	207.16
11/14/2022 8:15	59.7	44.9	45.98	207.16
11/14/2022 8:30	59.5	44.7	45.78	206.70
11/14/2022 8:45	59.5	44.7	45.78	206.70
11/14/2022 9:00	59.4	44.6	45.68	206.47
11/14/2022 9:15	59.3	44.5	45.58	206.24
11/14/2022 9:30	59.5	44.7	45.78	206.70
11/14/2022 9:45	59.5	44.7	45.78	206.70
11/14/2022 10:00	59.7	44.9	45.98	207.16
11/14/2022 10:15	59.8	45	46.08	207.39
11/14/2022 10:30	59.9	45.1	46.18	207.63
11/14/2022 10:45	60	45.2	46.28	207.86
11/14/2022 11:00	60	45.2	46.28	207.86
11/14/2022 11:15	60.1	45.3	46.38	208.09
11/14/2022 11:30	60	45.2	46.28	207.86

SOUTH TANK				
Time	Pressure Recorder	Adjusted Pressure at Recorder	Pressure at Tank Footing	Hydraulic Elevation of Water in Tank
11/4/2022 15:04	60.2	45.4	47.13	210.55
11/4/2022 15:19	60.4	45.6	47.33	211.01
11/4/2022 15:34	61	46.2	47.93	212.40
11/4/2022 15:49	61.1	46.3	48.03	212.63
11/4/2022 16:04	61.7	46.9	48.63	214.02
11/4/2022 16:19	61.4	46.6	48.33	213.32
11/4/2022 16:34	61	46.2	47.93	212.40
11/4/2022 16:49	60.7	45.9	47.63	211.71
11/4/2022 17:04	60.3	45.5	47.23	210.78
11/4/2022 17:19	60	45.2	46.93	210.09
11/4/2022 17:34	59.7	44.9	46.63	209.40
11/4/2022 17:49	59.3	44.5	46.23	208.47
11/4/2022 18:04	59	44.2	45.93	207.78
11/4/2022 18:19	59.4	44.6	46.33	208.70
11/4/2022 18:34	59.6	44.8	46.53	209.16
11/4/2022 18:49	59.9	45.1	46.83	209.86
11/4/2022 19:04	60.3	45.5	47.23	210.78
11/4/2022 19:19	60.5	45.7	47.43	211.24
11/4/2022 19:34	61.1	46.3	48.03	212.63
11/4/2022 19:49	60.2	45.4	47.13	210.55
11/4/2022 20:04	59.8	45	46.73	209.63
11/4/2022 20:19	59.5	44.7	46.43	208.93
11/4/2022 20:34	59.3	44.5	46.23	208.47
11/4/2022 20:49	59	44.2	45.93	207.78
11/4/2022 21:04	59.1	44.3	46.03	208.01
11/4/2022 21:19	59.9	45.1	46.83	209.86
11/4/2022 21:34	60	45.2	46.93	210.09
11/4/2022 21:49	60.2	45.4	47.13	210.55
11/4/2022 22:04	60.8	46	47.73	211.94
11/4/2022 22:19	60.5	45.7	47.43	211.24
11/4/2022 22:34	60.1	45.3	47.03	210.32
11/4/2022 22:49	59.9	45.1	46.83	209.86
11/4/2022 23:04	59.5	44.7	46.43	208.93
11/4/2022 23:19	59.3	44.5	46.23	208.47
11/4/2022 23:34	59.9	45.1	46.83	209.86
11/4/2022 23:49	60	45.2	46.93	210.09
11/5/2022 0:04	60.4	45.6	47.33	211.01
11/5/2022 0:19	61	46.2	47.93	212.40
11/5/2022 0:34	61.1	46.3	48.03	212.63
11/5/2022 0:49	61.8	47	48.73	214.25
11/5/2022 1:04	62.3	47.5	49.23	215.40
11/5/2022 1:19	61.8	47	48.73	214.25

SOUTH TANK				
Time	Pressure Recorder	Adjusted Pressure at Recorder	Pressure at Tank Footing	Hydraulic Elevation of Water in Tank
11/5/2022 1:34	61.9	47.1	48.83	214.48
11/5/2022 1:49	61.6	46.8	48.53	213.78
11/5/2022 2:04	61.4	46.6	48.33	213.32
11/5/2022 2:19	61.1	46.3	48.03	212.63
11/5/2022 2:34	60.9	46.1	47.83	212.17
11/5/2022 2:49	60.4	45.6	47.33	211.01
11/5/2022 3:04	60.1	45.3	47.03	210.32
11/5/2022 3:19	60.6	45.8	47.53	211.47
11/5/2022 3:34	61.4	46.6	48.33	213.32
11/5/2022 3:49	61.2	46.4	48.13	212.86
11/5/2022 4:04	61	46.2	47.93	212.40
11/5/2022 4:19	60.8	46	47.73	211.94
11/5/2022 4:34	60.7	45.9	47.63	211.71
11/5/2022 4:49	60	45.2	46.93	210.09
11/5/2022 5:04	59.9	45.1	46.83	209.86
11/5/2022 5:19	59.7	44.9	46.63	209.40
11/5/2022 5:34	59.5	44.7	46.43	208.93
11/5/2022 5:49	59.6	44.8	46.53	209.16
11/5/2022 6:04	60.1	45.3	47.03	210.32
11/5/2022 6:19	59.5	44.7	46.43	208.93
11/5/2022 6:34	59.2	44.4	46.13	208.24
11/5/2022 6:49	59	44.2	45.93	207.78
11/5/2022 7:04	58.8	44	45.73	207.32
11/5/2022 7:19	59.2	44.4	46.13	208.24
11/5/2022 7:34	59.3	44.5	46.23	208.47
11/5/2022 7:49	60.1	45.3	47.03	210.32
11/5/2022 8:04	60.4	45.6	47.33	211.01
11/5/2022 8:19	60.6	45.8	47.53	211.47
11/5/2022 8:34	60.8	46	47.73	211.94
11/5/2022 8:49	61.1	46.3	48.03	212.63
11/5/2022 9:04	61.5	46.7	48.43	213.55
11/5/2022 9:19	61.8	47	48.73	214.25
11/5/2022 9:34	62.1	47.3	49.03	214.94
11/5/2022 9:49	62.4	47.6	49.33	215.63
11/5/2022 10:04	61.8	47	48.73	214.25
11/5/2022 10:19	61.5	46.7	48.43	213.55
11/5/2022 10:34	61.1	46.3	48.03	212.63
11/5/2022 10:49	60.8	46	47.73	211.94
11/5/2022 11:04	60.4	45.6	47.33	211.01
11/5/2022 11:19	60.8	46	47.73	211.94
11/5/2022 11:34	61.2	46.4	48.13	212.86
11/5/2022 11:49	61.2	46.4	48.13	212.86

SOUTH TANK				
Time	Pressure Recorder	Adjusted Pressure at Recorder	Pressure at Tank Footing	Hydraulic Elevation of Water in Tank
11/5/2022 12:04	60.8	46	47.73	211.94
11/5/2022 12:19	60.5	45.7	47.43	211.24
11/5/2022 12:34	60	45.2	46.93	210.09
11/5/2022 12:49	60.1	45.3	47.03	210.32
11/5/2022 13:04	59.3	44.5	46.23	208.47
11/5/2022 13:19	59	44.2	45.93	207.78
11/5/2022 13:34	58.6	43.8	45.53	206.85
11/5/2022 13:49	58.4	43.6	45.33	206.39
11/5/2022 14:04	58.4	43.6	45.33	206.39
11/5/2022 14:19	58	43.2	44.93	205.47
11/5/2022 14:34	58.6	43.8	45.53	206.85
11/5/2022 14:49	58.6	43.8	45.53	206.85
11/5/2022 15:04	59.2	44.4	46.13	208.24
11/5/2022 15:19	59.3	44.5	46.23	208.47
11/5/2022 15:34	59.7	44.9	46.63	209.40
11/5/2022 15:49	60	45.2	46.93	210.09
11/5/2022 16:04	60.2	45.4	47.13	210.55
11/5/2022 16:19	60.5	45.7	47.43	211.24
11/5/2022 16:34	60.9	46.1	47.83	212.17
11/5/2022 16:49	61.1	46.3	48.03	212.63
11/5/2022 17:04	60.9	46.1	47.83	212.17
11/5/2022 17:19	60.5	45.7	47.43	211.24
11/5/2022 17:34	60.5	45.7	47.43	211.24
11/5/2022 17:49	59.8	45	46.73	209.63
11/5/2022 18:04	59.4	44.6	46.33	208.70
11/5/2022 18:19	59.2	44.4	46.13	208.24
11/5/2022 18:34	58.8	44	45.73	207.32
11/5/2022 18:49	58.5	43.7	45.43	206.62
11/5/2022 19:04	58.8	44	45.73	207.32
11/5/2022 19:19	59.2	44.4	46.13	208.24
11/5/2022 19:34	59.6	44.8	46.53	209.16
11/5/2022 19:49	59.8	45	46.73	209.63
11/5/2022 20:04	59.5	44.7	46.43	208.93
11/5/2022 20:19	59.3	44.5	46.23	208.47
11/5/2022 20:34	59	44.2	45.93	207.78
11/5/2022 20:49	58.7	43.9	45.63	207.09
11/5/2022 21:04	59.1	44.3	46.03	208.01
11/5/2022 21:19	59.2	44.4	46.13	208.24
11/5/2022 21:34	59.6	44.8	46.53	209.16
11/5/2022 21:49	60.1	45.3	47.03	210.32
11/5/2022 22:04	60.3	45.5	47.23	210.78
11/5/2022 22:19	60.6	45.8	47.53	211.47

SOUTH TANK				
Time	Pressure Recorder	Adjusted Pressure at Recorder	Pressure at Tank Footing	Hydraulic Elevation of Water in Tank
11/5/2022 22:34	60.9	46.1	47.83	212.17
11/5/2022 22:49	60.5	45.7	47.43	211.24
11/5/2022 23:04	60.3	45.5	47.23	210.78
11/5/2022 23:19	59.9	45.1	46.83	209.86
11/5/2022 23:34	59.7	44.9	46.63	209.40
11/5/2022 23:49	60	45.2	46.93	210.09
11/6/2022 0:04	60.5	45.7	47.43	211.24
11/6/2022 0:19	61	46.2	47.93	212.40
11/6/2022 0:34	61.3	46.5	48.23	213.09
11/6/2022 0:49	62	47.2	48.93	214.71
11/6/2022 1:04	62	47.2	48.93	214.71
11/6/2022 1:19	61.9	47.1	48.83	214.48
11/6/2022 1:34	61.3	46.5	48.23	213.09
11/6/2022 1:49	61.1	46.3	48.03	212.63
11/6/2022 2:04	61.1	46.3	48.03	212.63
11/6/2022 2:19	60.9	46.1	47.83	212.17
11/6/2022 2:34	60.4	45.6	47.33	211.01
11/6/2022 2:49	60.2	45.4	47.13	210.55
11/6/2022 3:04	60	45.2	46.93	210.09
11/6/2022 3:19	59.8	45	46.73	209.63
11/6/2022 3:34	59.5	44.7	46.43	208.93
11/6/2022 3:49	59.3	44.5	46.23	208.47
11/6/2022 4:04	59.2	44.4	46.13	208.24
11/6/2022 4:19	59	44.2	45.93	207.78
11/6/2022 4:34	58.9	44.1	45.83	207.55
11/6/2022 4:49	58.7	43.9	45.63	207.09
11/6/2022 5:04	59	44.2	45.93	207.78
11/6/2022 5:19	59.2	44.4	46.13	208.24
11/6/2022 5:34	59.6	44.8	46.53	209.16
11/6/2022 5:49	60.6	45.8	47.53	211.47
11/6/2022 6:04	60.6	45.8	47.53	211.47
11/6/2022 6:19	61.3	46.5	48.23	213.09
11/6/2022 6:34	61.6	46.8	48.53	213.78
11/6/2022 6:49	62	47.2	48.93	214.71
11/6/2022 7:04	62.4	47.6	49.33	215.63
11/6/2022 7:19	62.2	47.4	49.13	215.17
11/6/2022 7:34	62	47.2	48.93	214.71
11/6/2022 7:49	61.8	47	48.73	214.25
11/6/2022 8:04	61.5	46.7	48.43	213.55
11/6/2022 8:19	61.1	46.3	48.03	212.63
11/6/2022 8:34	61.1	46.3	48.03	212.63
11/6/2022 8:49	60.7	45.9	47.63	211.71

SOUTH TANK				
Time	Pressure Recorder	Adjusted Pressure at Recorder	Pressure at Tank Footing	Hydraulic Elevation of Water in Tank
11/6/2022 9:04	60.3	45.5	47.23	210.78
11/6/2022 9:19	60	45.2	46.93	210.09
11/6/2022 9:34	60.7	45.9	47.63	211.71
11/6/2022 9:49	60.9	46.1	47.83	212.17
11/6/2022 10:04	61.2	46.4	48.13	212.86
11/6/2022 10:19	61.6	46.8	48.53	213.78
11/6/2022 10:34	62.3	47.5	49.23	215.40
11/6/2022 10:49	61.7	46.9	48.63	214.02
11/6/2022 11:04	61.3	46.5	48.23	213.09
11/6/2022 11:19	61	46.2	47.93	212.40
11/6/2022 11:34	60.6	45.8	47.53	211.47
11/6/2022 11:49	61.1	46.3	48.03	212.63
11/6/2022 12:04	61.3	46.5	48.23	213.09
11/6/2022 12:19	61.6	46.8	48.53	213.78
11/6/2022 12:34	61.9	47.1	48.83	214.48
11/6/2022 12:49	61.6	46.8	48.53	213.78
11/6/2022 13:04	61	46.2	47.93	212.40
11/6/2022 13:19	61.1	46.3	48.03	212.63
11/6/2022 13:34	61.6	46.8	48.53	213.78
11/6/2022 13:49	61.9	47.1	48.83	214.48
11/6/2022 14:04	62.1	47.3	49.03	214.94
11/6/2022 14:19	62.4	47.6	49.33	215.63
11/6/2022 14:34	63	48.2	49.93	217.02
11/6/2022 14:49	62.9	48.1	49.83	216.79
11/6/2022 15:04	63.1	48.3	50.03	217.25
11/6/2022 15:19	63.6	48.8	50.53	218.40
11/6/2022 15:34	63.6	48.8	50.53	218.40
11/6/2022 15:49	63.9	49.1	50.83	219.10
11/6/2022 16:04	63.2	48.4	50.13	217.48
11/6/2022 16:19	62.8	48	49.73	216.56
11/6/2022 16:34	62.5	47.7	49.43	215.86
11/6/2022 16:49	62	47.2	48.93	214.71
11/6/2022 17:04	61.7	46.9	48.63	214.02
11/6/2022 17:19	61.6	46.8	48.53	213.78
11/6/2022 17:34	61.1	46.3	48.03	212.63
11/6/2022 17:49	60.8	46	47.73	211.94
11/6/2022 18:04	60	45.2	46.93	210.09
11/6/2022 18:19	59.7	44.9	46.63	209.40
11/6/2022 18:34	59.3	44.5	46.23	208.47
11/6/2022 18:49	59.7	44.9	46.63	209.40
11/6/2022 19:04	59.9	45.1	46.83	209.86
11/6/2022 19:19	60.2	45.4	47.13	210.55

SOUTH TANK				
Time	Pressure Recorder	Adjusted Pressure at Recorder	Pressure at Tank Footing	Hydraulic Elevation of Water in Tank
11/6/2022 19:34	60.4	45.6	47.33	211.01
11/6/2022 19:49	60.4	45.6	47.33	211.01
11/6/2022 20:04	60	45.2	46.93	210.09
11/6/2022 20:19	60	45.2	46.93	210.09
11/6/2022 20:34	59.2	44.4	46.13	208.24
11/6/2022 20:49	58.9	44.1	45.83	207.55
11/6/2022 21:04	59.3	44.5	46.23	208.47
11/6/2022 21:19	59.6	44.8	46.53	209.16
11/6/2022 21:34	59.8	45	46.73	209.63
11/6/2022 21:49	60.1	45.3	47.03	210.32
11/6/2022 22:04	60.4	45.6	47.33	211.01
11/6/2022 22:19	60.8	46	47.73	211.94
11/6/2022 22:34	61.1	46.3	48.03	212.63
11/6/2022 22:49	61.2	46.4	48.13	212.86
11/6/2022 23:04	61.3	46.5	48.23	213.09
11/6/2022 23:19	60.9	46.1	47.83	212.17
11/6/2022 23:34	60.7	45.9	47.63	211.71
11/6/2022 23:49	60.3	45.5	47.23	210.78
11/7/2022 0:04	59.9	45.1	46.83	209.86
11/7/2022 0:19	60	45.2	46.93	210.09
11/7/2022 0:34	60.4	45.6	47.33	211.01
11/7/2022 0:49	60.8	46	47.73	211.94
11/7/2022 1:04	61.1	46.3	48.03	212.63
11/7/2022 1:19	61.5	46.7	48.43	213.55
11/7/2022 1:34	62.2	47.4	49.13	215.17
11/7/2022 1:49	62.6	47.8	49.53	216.09
11/7/2022 2:04	63	48.2	49.93	217.02
11/7/2022 2:19	62.1	47.3	49.03	214.94
11/7/2022 2:34	62.2	47.4	49.13	215.17
11/7/2022 2:49	61.7	46.9	48.63	214.02
11/7/2022 3:04	61.8	47	48.73	214.25
11/7/2022 3:19	61.1	46.3	48.03	212.63
11/7/2022 3:34	61.2	46.4	48.13	212.86
11/7/2022 3:49	60.5	45.7	47.43	211.24
11/7/2022 4:04	60.4	45.6	47.33	211.01
11/7/2022 4:19	60	45.2	46.93	210.09
11/7/2022 4:34	60.1	45.3	47.03	210.32
11/7/2022 4:49	60	45.2	46.93	210.09
11/7/2022 5:04	59.3	44.5	46.23	208.47
11/7/2022 5:19	60.1	45.3	47.03	210.32
11/7/2022 5:34	60	45.2	46.93	210.09
11/7/2022 5:49	60.2	45.4	47.13	210.55

SOUTH TANK				
Time	Pressure Recorder	Adjusted Pressure at Recorder	Pressure at Tank Footing	Hydraulic Elevation of Water in Tank
11/7/2022 6:04	60.8	46	47.73	211.94
11/7/2022 6:19	60.9	46.1	47.83	212.17
11/7/2022 6:34	61.4	46.6	48.33	213.32
11/7/2022 6:49	61.7	46.9	48.63	214.02
11/7/2022 7:04	61.5	46.7	48.43	213.55
11/7/2022 7:19	61.1	46.3	48.03	212.63
11/7/2022 7:34	60.7	45.9	47.63	211.71
11/7/2022 7:49	60.3	45.5	47.23	210.78
11/7/2022 8:04	60.3	45.5	47.23	210.78
11/7/2022 8:19	59.9	45.1	46.83	209.86
11/7/2022 8:34	59.7	44.9	46.63	209.40
11/7/2022 8:49	59	44.2	45.93	207.78
11/7/2022 9:04	59.4	44.6	46.33	208.70
11/7/2022 9:19	60	45.2	46.93	210.09
11/7/2022 9:34	60	45.2	46.93	210.09
11/7/2022 9:49	60.4	45.6	47.33	211.01
11/7/2022 10:04	60.7	45.9	47.63	211.71
11/7/2022 10:19	61.1	46.3	48.03	212.63
11/7/2022 10:34	61.4	46.6	48.33	213.32
11/7/2022 10:49	61.9	47.1	48.83	214.48
11/7/2022 11:04	60.7	45.9	47.63	211.71
11/7/2022 11:19	61.9	47.1	48.83	214.48
11/7/2022 11:34	61.4	46.6	48.33	213.32
11/7/2022 11:49	61	46.2	47.93	212.40
11/7/2022 12:04	60.8	46	47.73	211.94
11/7/2022 12:19	60.3	45.5	47.23	210.78
11/7/2022 12:34	60	45.2	46.93	210.09
11/7/2022 12:49	60.5	45.7	47.43	211.24
11/7/2022 13:04	60.7	45.9	47.63	211.71
11/7/2022 13:19	61.2	46.4	48.13	212.86
11/7/2022 13:34	61.4	46.6	48.33	213.32
11/7/2022 13:49	61.5	46.7	48.43	213.55
11/7/2022 14:04	61.5	46.7	48.43	213.55
11/7/2022 14:19	61	46.2	47.93	212.40
11/7/2022 14:34	60.6	45.8	47.53	211.47
11/7/2022 14:49	60.4	45.6	47.33	211.01
11/7/2022 15:04	60.4	45.6	47.33	211.01
11/7/2022 15:19	59.8	45	46.73	209.63
11/7/2022 15:34	59.5	44.7	46.43	208.93
11/7/2022 15:49	59.3	44.5	46.23	208.47
11/7/2022 16:04	58.9	44.1	45.83	207.55
11/7/2022 16:19	59.3	44.5	46.23	208.47

SOUTH TANK				
Time	Pressure Recorder	Adjusted Pressure at Recorder	Pressure at Tank Footing	Hydraulic Elevation of Water in Tank
11/7/2022 16:34	59.7	44.9	46.63	209.40
11/7/2022 16:49	60.1	45.3	47.03	210.32
11/7/2022 17:04	60.1	45.3	47.03	210.32
11/7/2022 17:19	60.5	45.7	47.43	211.24
11/7/2022 17:34	60.9	46.1	47.83	212.17
11/7/2022 17:49	61.3	46.5	48.23	213.09
11/7/2022 18:04	61.5	46.7	48.43	213.55
11/7/2022 18:19	62.2	47.4	49.13	215.17
11/7/2022 18:34	61.6	46.8	48.53	213.78
11/7/2022 18:49	61.2	46.4	48.13	212.86
11/7/2022 19:04	60.8	46	47.73	211.94
11/7/2022 19:19	60.7	45.9	47.63	211.71
11/7/2022 19:34	60.1	45.3	47.03	210.32
11/7/2022 19:49	59.9	45.1	46.83	209.86
11/7/2022 20:04	59.5	44.7	46.43	208.93
11/7/2022 20:19	59.5	44.7	46.43	208.93
11/7/2022 20:34	59.5	44.7	46.43	208.93
11/7/2022 20:49	60	45.2	46.93	210.09
11/7/2022 21:04	60.2	45.4	47.13	210.55
11/7/2022 21:19	60.6	45.8	47.53	211.47
11/7/2022 21:34	60.8	46	47.73	211.94
11/7/2022 21:49	61	46.2	47.93	212.40
11/7/2022 22:04	60.4	45.6	47.33	211.01
11/7/2022 22:19	60.1	45.3	47.03	210.32
11/7/2022 22:34	59.7	44.9	46.63	209.40
11/7/2022 22:49	59.3	44.5	46.23	208.47
11/7/2022 23:04	59	44.2	45.93	207.78
11/7/2022 23:19	59.7	44.9	46.63	209.40
11/7/2022 23:34	60	45.2	46.93	210.09
11/7/2022 23:49	60.4	45.6	47.33	211.01
11/8/2022 0:04	61.1	46.3	48.03	212.63
11/8/2022 0:19	61.1	46.3	48.03	212.63
11/8/2022 0:34	61.4	46.6	48.33	213.32
11/8/2022 0:49	61.3	46.5	48.23	213.09
11/8/2022 1:04	61.2	46.4	48.13	212.86
11/8/2022 1:19	60.9	46.1	47.83	212.17
11/8/2022 1:34	60.8	46	47.73	211.94
11/8/2022 1:49	60.5	45.7	47.43	211.24
11/8/2022 2:04	60.8	46	47.73	211.94
11/8/2022 2:19	60.8	46	47.73	211.94
11/8/2022 2:34	61.5	46.7	48.43	213.55
11/8/2022 2:49	61.5	46.7	48.43	213.55

SOUTH TANK				
Time	Pressure Recorder	Adjusted Pressure at Recorder	Pressure at Tank Footing	Hydraulic Elevation of Water in Tank
11/8/2022 3:04	62	47.2	48.93	214.71
11/8/2022 3:19	61.7	46.9	48.63	214.02
11/8/2022 3:34	61.1	46.3	48.03	212.63
11/8/2022 3:49	61	46.2	47.93	212.40
11/8/2022 4:04	60.7	45.9	47.63	211.71
11/8/2022 4:19	60.8	46	47.73	211.94
11/8/2022 4:34	60.2	45.4	47.13	210.55
11/8/2022 4:49	60	45.2	46.93	210.09
11/8/2022 5:04	59.9	45.1	46.83	209.86
11/8/2022 5:19	60	45.2	46.93	210.09
11/8/2022 5:34	59.9	45.1	46.83	209.86
11/8/2022 5:49	60.4	45.6	47.33	211.01
11/8/2022 6:04	61.2	46.4	48.13	212.86
11/8/2022 6:19	61.1	46.3	48.03	212.63
11/8/2022 6:34	61.2	46.4	48.13	212.86
11/8/2022 6:49	61.3	46.5	48.23	213.09
11/8/2022 7:04	61.4	46.6	48.33	213.32
11/8/2022 7:19	60.8	46	47.73	211.94
11/8/2022 7:34	60.4	45.6	47.33	211.01
11/8/2022 7:49	60.2	45.4	47.13	210.55
11/8/2022 8:04	60.2	45.4	47.13	210.55
11/8/2022 8:19	59.5	44.7	46.43	208.93
11/8/2022 8:34	59.5	44.7	46.43	208.93
11/8/2022 8:49	59.8	45	46.73	209.63
11/8/2022 9:04	60	45.2	46.93	210.09
11/8/2022 9:19	60.4	45.6	47.33	211.01
11/8/2022 9:34	60.8	46	47.73	211.94
11/8/2022 9:49	61.2	46.4	48.13	212.86
11/8/2022 10:04	61.5	46.7	48.43	213.55
11/8/2022 10:19	61.9	47.1	48.83	214.48
11/8/2022 10:34	61.9	47.1	48.83	214.48
11/8/2022 10:49	61.3	46.5	48.23	213.09
11/8/2022 11:04	61.1	46.3	48.03	212.63
11/8/2022 11:19	60.8	46	47.73	211.94
11/8/2022 11:34	61.1	46.3	48.03	212.63
11/8/2022 11:49	61.3	46.5	48.23	213.09
11/8/2022 12:04	62	47.2	48.93	214.71
11/8/2022 12:19	62.2	47.4	49.13	215.17
11/8/2022 12:34	61.7	46.9	48.63	214.02
11/8/2022 12:49	61.4	46.6	48.33	213.32
11/8/2022 13:04	61	46.2	47.93	212.40
11/8/2022 13:19	61.2	46.4	48.13	212.86

SOUTH TANK				
Time	Pressure Recorder	Adjusted Pressure at Recorder	Pressure at Tank Footing	Hydraulic Elevation of Water in Tank
11/8/2022 13:34	60.9	46.1	47.83	212.17
11/8/2022 13:49	60.2	45.4	47.13	210.55
11/8/2022 14:04	60	45.2	46.93	210.09
11/8/2022 14:19	59.7	44.9	46.63	209.40
11/8/2022 14:34	59.7	44.9	46.63	209.40
11/8/2022 14:49	59.1	44.3	46.03	208.01
11/8/2022 15:04	58.8	44	45.73	207.32
11/8/2022 15:19	58.6	43.8	45.53	206.85
11/8/2022 15:34	58.3	43.5	45.23	206.16
11/8/2022 15:49	58.1	43.3	45.03	205.70
11/8/2022 16:04	59	44.2	45.93	207.78
11/8/2022 16:19	58.9	44.1	45.83	207.55
11/8/2022 16:34	59.3	44.5	46.23	208.47
11/8/2022 16:49	59.8	45	46.73	209.63
11/8/2022 17:04	60.1	45.3	47.03	210.32
11/8/2022 17:19	59.8	45	46.73	209.63
11/8/2022 17:34	59.5	44.7	46.43	208.93
11/8/2022 17:49	59.2	44.4	46.13	208.24
11/8/2022 18:04	59.4	44.6	46.33	208.70
11/8/2022 18:19	59.2	44.4	46.13	208.24
11/8/2022 18:34	59.2	44.4	46.13	208.24
11/8/2022 18:49	58.5	43.7	45.43	206.62
11/8/2022 19:04	58.3	43.5	45.23	206.16
11/8/2022 19:19	58.7	43.9	45.63	207.09
11/8/2022 19:34	59	44.2	45.93	207.78
11/8/2022 19:49	59.3	44.5	46.23	208.47
11/8/2022 20:04	59.7	44.9	46.63	209.40
11/8/2022 20:19	60	45.2	46.93	210.09
11/8/2022 20:34	59.8	45	46.73	209.63
11/8/2022 20:49	59.3	44.5	46.23	208.47
11/8/2022 21:04	59	44.2	45.93	207.78
11/8/2022 21:19	58.6	43.8	45.53	206.85
11/8/2022 21:34	58.7	43.9	45.63	207.09
11/8/2022 21:49	59	44.2	45.93	207.78
11/8/2022 22:04	59.3	44.5	46.23	208.47
11/8/2022 22:19	59.5	44.7	46.43	208.93
11/8/2022 22:34	59.8	45	46.73	209.63
11/8/2022 22:49	60.1	45.3	47.03	210.32
11/8/2022 23:04	60.4	45.6	47.33	211.01
11/8/2022 23:19	60.9	46.1	47.83	212.17
11/8/2022 23:34	60.3	45.5	47.23	210.78
11/8/2022 23:49	60	45.2	46.93	210.09

SOUTH TANK				
Time	Pressure Recorder	Adjusted Pressure at Recorder	Pressure at Tank Footing	Hydraulic Elevation of Water in Tank
11/9/2022 0:04	59.8	45	46.73	209.63
11/9/2022 0:19	59.7	44.9	46.63	209.40
11/9/2022 0:34	59.7	44.9	46.63	209.40
11/9/2022 0:49	60.3	45.5	47.23	210.78
11/9/2022 1:04	60.5	45.7	47.43	211.24
11/9/2022 1:19	60.9	46.1	47.83	212.17
11/9/2022 1:34	61.5	46.7	48.43	213.55
11/9/2022 1:49	61.8	47	48.73	214.25
11/9/2022 2:04	61.7	46.9	48.63	214.02
11/9/2022 2:19	61	46.2	47.93	212.40
11/9/2022 2:34	60.8	46	47.73	211.94
11/9/2022 2:49	60.5	45.7	47.43	211.24
11/9/2022 3:04	60.4	45.6	47.33	211.01
11/9/2022 3:19	60.5	45.7	47.43	211.24
11/9/2022 3:34	61.2	46.4	48.13	212.86
11/9/2022 3:49	61.6	46.8	48.53	213.78
11/9/2022 4:04	61.1	46.3	48.03	212.63
11/9/2022 4:19	61	46.2	47.93	212.40
11/9/2022 4:34	60.7	45.9	47.63	211.71
11/9/2022 4:49	60.4	45.6	47.33	211.01
11/9/2022 5:04	60.1	45.3	47.03	210.32
11/9/2022 5:19	60.6	45.8	47.53	211.47
11/9/2022 5:34	61.3	46.5	48.23	213.09
11/9/2022 5:49	61.5	46.7	48.43	213.55
11/9/2022 6:04	61.8	47	48.73	214.25
11/9/2022 6:19	62.1	47.3	49.03	214.94
11/9/2022 6:34	61.5	46.7	48.43	213.55
11/9/2022 6:49	61.6	46.8	48.53	213.78
11/9/2022 7:04	61.4	46.6	48.33	213.32
11/9/2022 7:19	61.3	46.5	48.23	213.09
11/9/2022 7:34	60.8	46	47.73	211.94
11/9/2022 7:49	60.4	45.6	47.33	211.01
11/9/2022 8:04	60.3	45.5	47.23	210.78
11/9/2022 8:19	59.6	44.8	46.53	209.16
11/9/2022 8:34	59.3	44.5	46.23	208.47
11/9/2022 8:49	58.9	44.1	45.83	207.55
11/9/2022 9:04	59.7	44.9	46.63	209.40
11/9/2022 9:19	59.9	45.1	46.83	209.86
11/9/2022 9:34	60.4	45.6	47.33	211.01
11/9/2022 9:49	60.4	45.6	47.33	211.01
11/9/2022 10:04	60.9	46.1	47.83	212.17
11/9/2022 10:19	61.1	46.3	48.03	212.63

SOUTH TANK				
Time	Pressure Recorder	Adjusted Pressure at Recorder	Pressure at Tank Footing	Hydraulic Elevation of Water in Tank
11/9/2022 10:34	61.3	46.5	48.23	213.09
11/9/2022 10:49	61.6	46.8	48.53	213.78
11/9/2022 11:04	62	47.2	48.93	214.71
11/9/2022 11:19	61.8	47	48.73	214.25
11/9/2022 11:34	61.5	46.7	48.43	213.55
11/9/2022 11:49	61.1	46.3	48.03	212.63
11/9/2022 12:04	60.9	46.1	47.83	212.17
11/9/2022 12:19	60.8	46	47.73	211.94
11/9/2022 12:34	60.5	45.7	47.43	211.24
11/9/2022 12:49	61	46.2	47.93	212.40
11/9/2022 13:04	61.6	46.8	48.53	213.78
11/9/2022 13:19	61.8	47	48.73	214.25
11/9/2022 13:34	61.8	47	48.73	214.25
11/9/2022 13:49	62.2	47.4	49.13	215.17
11/9/2022 14:04	61.7	46.9	48.63	214.02
11/9/2022 14:19	61.2	46.4	48.13	212.86
11/9/2022 14:34	61	46.2	47.93	212.40
11/9/2022 14:49	60.6	45.8	47.53	211.47
11/9/2022 15:04	60.3	45.5	47.23	210.78
11/9/2022 15:19	60	45.2	46.93	210.09
11/9/2022 15:34	59.7	44.9	46.63	209.40
11/9/2022 15:49	59.4	44.6	46.33	208.70
11/9/2022 16:04	59.3	44.5	46.23	208.47
11/9/2022 16:19	59.8	45	46.73	209.63
11/9/2022 16:34	60.1	45.3	47.03	210.32
11/9/2022 16:49	60.8	46	47.73	211.94
11/9/2022 17:04	61	46.2	47.93	212.40
11/9/2022 17:19	61.4	46.6	48.33	213.32
11/9/2022 17:34	61.3	46.5	48.23	213.09
11/9/2022 17:49	60.8	46	47.73	211.94
11/9/2022 18:04	60.5	45.7	47.43	211.24
11/9/2022 18:19	60.4	45.6	47.33	211.01
11/9/2022 18:34	59.8	45	46.73	209.63
11/9/2022 18:49	59.4	44.6	46.33	208.70
11/9/2022 19:04	59	44.2	45.93	207.78
11/9/2022 19:19	59.3	44.5	46.23	208.47
11/9/2022 19:34	59.6	44.8	46.53	209.16
11/9/2022 19:49	59.8	45	46.73	209.63
11/9/2022 20:04	60.2	45.4	47.13	210.55
11/9/2022 20:19	60.4	45.6	47.33	211.01
11/9/2022 20:34	60.7	45.9	47.63	211.71
11/9/2022 20:49	61.1	46.3	48.03	212.63

SOUTH TANK				
Time	Pressure Recorder	Adjusted Pressure at Recorder	Pressure at Tank Footing	Hydraulic Elevation of Water in Tank
11/9/2022 21:04	60.7	45.9	47.63	211.71
11/9/2022 21:19	60.3	45.5	47.23	210.78
11/9/2022 21:34	60	45.2	46.93	210.09
11/9/2022 21:49	59.6	44.8	46.53	209.16
11/9/2022 22:04	59.3	44.5	46.23	208.47
11/9/2022 22:19	59.9	45.1	46.83	209.86
11/9/2022 22:34	59.9	45.1	46.83	209.86
11/9/2022 22:49	60.3	45.5	47.23	210.78
11/9/2022 23:04	60.8	46	47.73	211.94
11/9/2022 23:19	61	46.2	47.93	212.40
11/9/2022 23:34	61.2	46.4	48.13	212.86
11/9/2022 23:49	61.7	46.9	48.63	214.02
11/10/2022 0:04	61.3	46.5	48.23	213.09
11/10/2022 0:19	60.9	46.1	47.83	212.17
11/10/2022 0:34	60.8	46	47.73	211.94
11/10/2022 0:49	60.7	45.9	47.63	211.71
11/10/2022 1:04	60.1	45.3	47.03	210.32
11/10/2022 1:19	59.8	45	46.73	209.63
11/10/2022 1:34	60.6	45.8	47.53	211.47
11/10/2022 1:49	60.5	45.7	47.43	211.24
11/10/2022 2:04	61.6	46.8	48.53	213.78
11/10/2022 2:19	60.8	46	47.73	211.94
11/10/2022 2:34	60.4	45.6	47.33	211.01
11/10/2022 2:49	60.2	45.4	47.13	210.55
11/10/2022 3:04	60	45.2	46.93	210.09
11/10/2022 3:19	59.8	45	46.73	209.63
11/10/2022 3:34	59.6	44.8	46.53	209.16
11/10/2022 3:49	59.4	44.6	46.33	208.70
11/10/2022 4:04	59.5	44.7	46.43	208.93
11/10/2022 4:19	59.1	44.3	46.03	208.01
11/10/2022 4:34	60	45.2	46.93	210.09
11/10/2022 4:49	60.2	45.4	47.13	210.55
11/10/2022 5:04	60.8	46	47.73	211.94
11/10/2022 5:19	61.4	46.6	48.33	213.32
11/10/2022 5:34	60.8	46	47.73	211.94
11/10/2022 5:49	60.5	45.7	47.43	211.24
11/10/2022 6:04	60.2	45.4	47.13	210.55
11/10/2022 6:19	60.3	45.5	47.23	210.78
11/10/2022 6:34	59.8	45	46.73	209.63
11/10/2022 6:49	59.5	44.7	46.43	208.93
11/10/2022 7:04	59.6	44.8	46.53	209.16
11/10/2022 7:19	60	45.2	46.93	210.09

SOUTH TANK				
Time	Pressure Recorder	Adjusted Pressure at Recorder	Pressure at Tank Footing	Hydraulic Elevation of Water in Tank
11/10/2022 7:34	60.3	45.5	47.23	210.78
11/10/2022 7:49	60.7	45.9	47.63	211.71
11/10/2022 8:04	60.9	46.1	47.83	212.17
11/10/2022 8:19	61.1	46.3	48.03	212.63
11/10/2022 8:34	61.4	46.6	48.33	213.32
11/10/2022 8:49	62.1	47.3	49.03	214.94
11/10/2022 9:04	62.2	47.4	49.13	215.17
11/10/2022 9:19	61.6	46.8	48.53	213.78
11/10/2022 9:34	61.1	46.3	48.03	212.63
11/10/2022 9:49	60.9	46.1	47.83	212.17
11/10/2022 10:04	60.5	45.7	47.43	211.24
11/10/2022 10:19	60.4	45.6	47.33	211.01
11/10/2022 10:34	60.2	45.4	47.13	210.55
11/10/2022 10:49	60.5	45.7	47.43	211.24
11/10/2022 11:04	60.8	46	47.73	211.94
11/10/2022 11:19	61.1	46.3	48.03	212.63
11/10/2022 11:34	61.4	46.6	48.33	213.32
11/10/2022 11:49	62.1	47.3	49.03	214.94
11/10/2022 12:04	62.2	47.4	49.13	215.17
11/10/2022 12:19	61.9	47.1	48.83	214.48
11/10/2022 12:34	61.6	46.8	48.53	213.78
11/10/2022 12:49	61.5	46.7	48.43	213.55
11/10/2022 13:04	60.8	46	47.73	211.94
11/10/2022 13:19	60.4	45.6	47.33	211.01
11/10/2022 13:34	60.1	45.3	47.03	210.32
11/10/2022 13:49	59.8	45	46.73	209.63
11/10/2022 14:04	59.5	44.7	46.43	208.93
11/10/2022 14:19	59.3	44.5	46.23	208.47
11/10/2022 14:34	59	44.2	45.93	207.78
11/10/2022 14:49	58.6	43.8	45.53	206.85
11/10/2022 15:04	58.4	43.6	45.33	206.39
11/10/2022 15:19	58.1	43.3	45.03	205.70
11/10/2022 15:34	58.3	43.5	45.23	206.16
11/10/2022 15:49	58.7	43.9	45.63	207.09
11/10/2022 16:04	59.1	44.3	46.03	208.01
11/10/2022 16:19	59.4	44.6	46.33	208.70
11/10/2022 16:34	60.1	45.3	47.03	210.32
11/10/2022 16:49	60.2	45.4	47.13	210.55
11/10/2022 17:04	60.5	45.7	47.43	211.24
11/10/2022 17:19	61.2	46.4	48.13	212.86
11/10/2022 17:34	61.1	46.3	48.03	212.63
11/10/2022 17:49	61.5	46.7	48.43	213.55

SOUTH TANK				
Time	Pressure Recorder	Adjusted Pressure at Recorder	Pressure at Tank Footing	Hydraulic Elevation of Water in Tank
11/10/2022 18:04	61.8	47	48.73	214.25
11/10/2022 18:19	61.7	46.9	48.63	214.02
11/10/2022 18:34	60.8	46	47.73	211.94
11/10/2022 18:49	60.4	45.6	47.33	211.01
11/10/2022 19:04	60.1	45.3	47.03	210.32
11/10/2022 19:19	59.8	45	46.73	209.63
11/10/2022 19:34	59.4	44.6	46.33	208.70
11/10/2022 19:49	59.1	44.3	46.03	208.01
11/10/2022 20:04	58.8	44	45.73	207.32
11/10/2022 20:19	58.4	43.6	45.33	206.39
11/10/2022 20:34	58.5	43.7	45.43	206.62
11/10/2022 20:49	58.5	43.7	45.43	206.62
11/10/2022 21:04	58.8	44	45.73	207.32
11/10/2022 21:19	59.1	44.3	46.03	208.01
11/10/2022 21:34	59.2	44.4	46.13	208.24
11/10/2022 21:49	59.5	44.7	46.43	208.93
11/10/2022 22:04	59.9	45.1	46.83	209.86
11/10/2022 22:19	60.2	45.4	47.13	210.55
11/10/2022 22:34	60.4	45.6	47.33	211.01
11/10/2022 22:49	61.1	46.3	48.03	212.63
11/10/2022 23:04	60.7	45.9	47.63	211.71
11/10/2022 23:19	60.1	45.3	47.03	210.32
11/10/2022 23:34	59.8	45	46.73	209.63
11/10/2022 23:49	59.9	45.1	46.83	209.86
11/11/2022 0:04	59.5	44.7	46.43	208.93
11/11/2022 0:19	59.8	45	46.73	209.63
11/11/2022 0:34	60.4	45.6	47.33	211.01
11/11/2022 0:49	60.4	45.6	47.33	211.01
11/11/2022 1:04	60.9	46.1	47.83	212.17
11/11/2022 1:19	60.9	46.1	47.83	212.17
11/11/2022 1:34	60.5	45.7	47.43	211.24
11/11/2022 1:49	60.3	45.5	47.23	210.78
11/11/2022 2:04	60	45.2	46.93	210.09
11/11/2022 2:19	59.8	45	46.73	209.63
11/11/2022 2:34	59.6	44.8	46.53	209.16
11/11/2022 2:49	60	45.2	46.93	210.09
11/11/2022 3:04	60.4	45.6	47.33	211.01
11/11/2022 3:19	61.1	46.3	48.03	212.63
11/11/2022 3:34	61.1	46.3	48.03	212.63
11/11/2022 3:49	61.9	47.1	48.83	214.48
11/11/2022 4:04	62	47.2	48.93	214.71
11/11/2022 4:19	61.7	46.9	48.63	214.02

SOUTH TANK				
Time	Pressure Recorder	Adjusted Pressure at Recorder	Pressure at Tank Footing	Hydraulic Elevation of Water in Tank
11/11/2022 4:34	61.5	46.7	48.43	213.55
11/11/2022 4:49	61.2	46.4	48.13	212.86
11/11/2022 5:04	61.2	46.4	48.13	212.86
11/11/2022 5:19	60.6	45.8	47.53	211.47
11/11/2022 5:34	61.2	46.4	48.13	212.86
11/11/2022 5:49	61.9	47.1	48.83	214.48
11/11/2022 6:04	62.1	47.3	49.03	214.94
11/11/2022 6:19	62.3	47.5	49.23	215.40
11/11/2022 6:34	62.6	47.8	49.53	216.09
11/11/2022 6:49	62	47.2	48.93	214.71
11/11/2022 7:04	61.7	46.9	48.63	214.02
11/11/2022 7:19	61.3	46.5	48.23	213.09
11/11/2022 7:34	62	47.2	48.93	214.71
11/11/2022 7:49	62	47.2	48.93	214.71
11/11/2022 8:04	62.3	47.5	49.23	215.40
11/11/2022 8:19	62.5	47.7	49.43	215.86
11/11/2022 8:34	63.2	48.4	50.13	217.48
11/11/2022 8:49	62.6	47.8	49.53	216.09
11/11/2022 9:04	62.3	47.5	49.23	215.40
11/11/2022 9:19	61.9	47.1	48.83	214.48
11/11/2022 9:34	62	47.2	48.93	214.71
11/11/2022 9:49	61.3	46.5	48.23	213.09
11/11/2022 10:04	60.9	46.1	47.83	212.17
11/11/2022 10:19	60.5	45.7	47.43	211.24
11/11/2022 10:34	61.1	46.3	48.03	212.63
11/11/2022 10:49	60.9	46.1	47.83	212.17
11/11/2022 11:04	61.1	46.3	48.03	212.63
11/11/2022 11:19	61.9	47.1	48.83	214.48
11/11/2022 11:34	62	47.2	48.93	214.71
11/11/2022 11:49	62.1	47.3	49.03	214.94
11/11/2022 12:04	61.5	46.7	48.43	213.55
11/11/2022 12:19	61.1	46.3	48.03	212.63
11/11/2022 12:34	60.8	46	47.73	211.94
11/11/2022 12:49	60.4	45.6	47.33	211.01
11/11/2022 13:04	60.1	45.3	47.03	210.32
11/11/2022 13:19	59.8	45	46.73	209.63
11/11/2022 13:34	59.4	44.6	46.33	208.70
11/11/2022 13:49	59.2	44.4	46.13	208.24
11/11/2022 14:04	58.9	44.1	45.83	207.55
11/11/2022 14:19	58.9	44.1	45.83	207.55
11/11/2022 14:34	58.4	43.6	45.33	206.39
11/11/2022 14:49	58.1	43.3	45.03	205.70

SOUTH TANK				
Time	Pressure Recorder	Adjusted Pressure at Recorder	Pressure at Tank Footing	Hydraulic Elevation of Water in Tank
11/11/2022 15:04	58.8	44	45.73	207.32
11/11/2022 15:19	58.8	44	45.73	207.32
11/11/2022 15:34	59.5	44.7	46.43	208.93
11/11/2022 15:49	59.4	44.6	46.33	208.70
11/11/2022 16:04	59.8	45	46.73	209.63
11/11/2022 16:19	60.2	45.4	47.13	210.55
11/11/2022 16:34	60.8	46	47.73	211.94
11/11/2022 16:49	61.2	46.4	48.13	212.86
11/11/2022 17:04	61.1	46.3	48.03	212.63
11/11/2022 17:19	61.5	46.7	48.43	213.55
11/11/2022 17:34	61.4	46.6	48.33	213.32
11/11/2022 17:49	61.1	46.3	48.03	212.63
11/11/2022 18:04	60.7	45.9	47.63	211.71
11/11/2022 18:19	60.4	45.6	47.33	211.01
11/11/2022 18:34	60	45.2	46.93	210.09
11/11/2022 18:49	59.7	44.9	46.63	209.40
11/11/2022 19:04	59.3	44.5	46.23	208.47
11/11/2022 19:19	59	44.2	45.93	207.78
11/11/2022 19:34	58.7	43.9	45.63	207.09
11/11/2022 19:49	58.4	43.6	45.33	206.39
11/11/2022 20:04	58.9	44.1	45.83	207.55
11/11/2022 20:19	59.1	44.3	46.03	208.01
11/11/2022 20:34	59.5	44.7	46.43	208.93
11/11/2022 20:49	59.8	45	46.73	209.63
11/11/2022 21:04	60.2	45.4	47.13	210.55
11/11/2022 21:19	60.6	45.8	47.53	211.47
11/11/2022 21:34	61.4	46.6	48.33	213.32
11/11/2022 21:49	61.3	46.5	48.23	213.09
11/11/2022 22:04	61.5	46.7	48.43	213.55
11/11/2022 22:19	61.8	47	48.73	214.25
11/11/2022 22:34	61.5	46.7	48.43	213.55
11/11/2022 22:49	61.2	46.4	48.13	212.86
11/11/2022 23:04	60.9	46.1	47.83	212.17
11/11/2022 23:19	60.5	45.7	47.43	211.24
11/11/2022 23:34	60.2	45.4	47.13	210.55
11/11/2022 23:49	60.3	45.5	47.23	210.78
11/12/2022 0:04	61.1	46.3	48.03	212.63
11/12/2022 0:19	61.1	46.3	48.03	212.63
11/12/2022 0:34	61.9	47.1	48.83	214.48
11/12/2022 0:49	61.1	46.3	48.03	212.63
11/12/2022 1:04	60.9	46.1	47.83	212.17
11/12/2022 1:19	60.5	45.7	47.43	211.24

SOUTH TANK				
Time	Pressure Recorder	Adjusted Pressure at Recorder	Pressure at Tank Footing	Hydraulic Elevation of Water in Tank
11/12/2022 1:34	60.7	45.9	47.63	211.71
11/12/2022 1:49	60.8	46	47.73	211.94
11/12/2022 2:04	61	46.2	47.93	212.40
11/12/2022 2:19	61.4	46.6	48.33	213.32
11/12/2022 2:34	61.8	47	48.73	214.25
11/12/2022 2:49	62.5	47.7	49.43	215.86
11/12/2022 3:04	62.9	48.1	49.83	216.79
11/12/2022 3:19	62.6	47.8	49.53	216.09
11/12/2022 3:34	62.1	47.3	49.03	214.94
11/12/2022 3:49	62	47.2	48.93	214.71
11/12/2022 4:04	61.8	47	48.73	214.25
11/12/2022 4:19	61.5	46.7	48.43	213.55
11/12/2022 4:34	62	47.2	48.93	214.71
11/12/2022 4:49	62.6	47.8	49.53	216.09
11/12/2022 5:04	62.9	48.1	49.83	216.79
11/12/2022 5:19	63.1	48.3	50.03	217.25
11/12/2022 5:34	62.6	47.8	49.53	216.09
11/12/2022 5:49	62.4	47.6	49.33	215.63
11/12/2022 6:04	62.1	47.3	49.03	214.94
11/12/2022 6:19	61.9	47.1	48.83	214.48
11/12/2022 6:34	62.1	47.3	49.03	214.94
11/12/2022 6:49	61.5	46.7	48.43	213.55
11/12/2022 7:04	61.5	46.7	48.43	213.55
11/12/2022 7:19	61.3	46.5	48.23	213.09
11/12/2022 7:34	61.5	46.7	48.43	213.55
11/12/2022 7:49	61.8	47	48.73	214.25
11/12/2022 8:04	62.6	47.8	49.53	216.09
11/12/2022 8:19	62.7	47.9	49.63	216.33
11/12/2022 8:34	62.4	47.6	49.33	215.63
11/12/2022 8:49	62.2	47.4	49.13	215.17
11/12/2022 9:04	61.9	47.1	48.83	214.48
11/12/2022 9:19	61.9	47.1	48.83	214.48
11/12/2022 9:34	61.4	46.6	48.33	213.32
11/12/2022 9:49	61.3	46.5	48.23	213.09
11/12/2022 10:04	61.1	46.3	48.03	212.63
11/12/2022 10:19	61.5	46.7	48.43	213.55
11/12/2022 10:34	61.7	46.9	48.63	214.02
11/12/2022 10:49	62.5	47.7	49.43	215.86
11/12/2022 11:04	62.2	47.4	49.13	215.17
11/12/2022 11:19	61.8	47	48.73	214.25
11/12/2022 11:34	61.6	46.8	48.53	213.78
11/12/2022 11:49	61.3	46.5	48.23	213.09

SOUTH TANK				
Time	Pressure Recorder	Adjusted Pressure at Recorder	Pressure at Tank Footing	Hydraulic Elevation of Water in Tank
11/12/2022 12:04	61	46.2	47.93	212.40
11/12/2022 12:19	60.8	46	47.73	211.94
11/12/2022 12:34	60.5	45.7	47.43	211.24
11/12/2022 12:49	60.3	45.5	47.23	210.78
11/12/2022 13:04	60.1	45.3	47.03	210.32
11/12/2022 13:19	59.7	44.9	46.63	209.40
11/12/2022 13:34	59.5	44.7	46.43	208.93
11/12/2022 13:49	59.5	44.7	46.43	208.93
11/12/2022 14:04	59.3	44.5	46.23	208.47
11/12/2022 14:19	58.8	44	45.73	207.32
11/12/2022 14:34	58.6	43.8	45.53	206.85
11/12/2022 14:49	58.7	43.9	45.63	207.09
11/12/2022 15:04	59	44.2	45.93	207.78
11/12/2022 15:19	59.4	44.6	46.33	208.70
11/12/2022 15:34	59.7	44.9	46.63	209.40
11/12/2022 15:49	60.2	45.4	47.13	210.55
11/12/2022 16:04	61	46.2	47.93	212.40
11/12/2022 16:19	61.2	46.4	48.13	212.86
11/12/2022 16:34	61.5	46.7	48.43	213.55
11/12/2022 16:49	61.9	47.1	48.83	214.48
11/12/2022 17:04	61.3	46.5	48.23	213.09
11/12/2022 17:19	61.1	46.3	48.03	212.63
11/12/2022 17:34	60.8	46	47.73	211.94
11/12/2022 17:49	60.6	45.8	47.53	211.47
11/12/2022 18:04	60.2	45.4	47.13	210.55
11/12/2022 18:19	60	45.2	46.93	210.09
11/12/2022 18:34	60.4	45.6	47.33	211.01
11/12/2022 18:49	60.9	46.1	47.83	212.17
11/12/2022 19:04	61.3	46.5	48.23	213.09
11/12/2022 19:19	61.5	46.7	48.43	213.55
11/12/2022 19:34	61.9	47.1	48.83	214.48
11/12/2022 19:49	61.7	46.9	48.63	214.02
11/12/2022 20:04	61.5	46.7	48.43	213.55
11/12/2022 20:19	61.3	46.5	48.23	213.09
11/12/2022 20:34	60.9	46.1	47.83	212.17
11/12/2022 20:49	60.7	45.9	47.63	211.71
11/12/2022 21:04	60.5	45.7	47.43	211.24
11/12/2022 21:19	60.8	46	47.73	211.94
11/12/2022 21:34	61.4	46.6	48.33	213.32
11/12/2022 21:49	61.8	47	48.73	214.25
11/12/2022 22:04	61.9	47.1	48.83	214.48
11/12/2022 22:19	62.5	47.7	49.43	215.86

SOUTH TANK				
Time	Pressure Recorder	Adjusted Pressure at Recorder	Pressure at Tank Footing	Hydraulic Elevation of Water in Tank
11/12/2022 22:34	62.2	47.4	49.13	215.17
11/12/2022 22:49	62	47.2	48.93	214.71
11/12/2022 23:04	61.8	47	48.73	214.25
11/12/2022 23:19	61.5	46.7	48.43	213.55
11/12/2022 23:34	61.3	46.5	48.23	213.09
11/12/2022 23:49	61	46.2	47.93	212.40
11/13/2022 0:04	61.5	46.7	48.43	213.55
11/13/2022 0:19	62.1	47.3	49.03	214.94
11/13/2022 0:34	61.7	46.9	48.63	214.02
11/13/2022 0:49	61.7	46.9	48.63	214.02
11/13/2022 1:04	61.4	46.6	48.33	213.32
11/13/2022 1:19	61	46.2	47.93	212.40
11/13/2022 1:34	61	46.2	47.93	212.40
11/13/2022 1:49	60.7	45.9	47.63	211.71
11/13/2022 2:04	60.7	45.9	47.63	211.71
11/13/2022 2:19	60.3	45.5	47.23	210.78
11/13/2022 2:34	60.4	45.6	47.33	211.01
11/13/2022 2:49	59.9	45.1	46.83	209.86
11/13/2022 3:04	59.7	44.9	46.63	209.40
11/13/2022 3:19	59.9	45.1	46.83	209.86
11/13/2022 3:34	59.5	44.7	46.43	208.93
11/13/2022 3:49	60.1	45.3	47.03	210.32
11/13/2022 4:04	60.7	45.9	47.63	211.71
11/13/2022 4:19	61	46.2	47.93	212.40
11/13/2022 4:34	61.5	46.7	48.43	213.55
11/13/2022 4:49	62	47.2	48.93	214.71
11/13/2022 5:04	61.7	46.9	48.63	214.02
11/13/2022 5:19	61.8	47	48.73	214.25
11/13/2022 5:34	61.5	46.7	48.43	213.55
11/13/2022 5:49	61.2	46.4	48.13	212.86
11/13/2022 6:04	61.1	46.3	48.03	212.63
11/13/2022 6:19	61	46.2	47.93	212.40
11/13/2022 6:34	61.1	46.3	48.03	212.63
11/13/2022 6:49	60.6	45.8	47.53	211.47
11/13/2022 7:04	60.5	45.7	47.43	211.24
11/13/2022 7:19	60.4	45.6	47.33	211.01
11/13/2022 7:34	60.7	45.9	47.63	211.71
11/13/2022 7:49	60.9	46.1	47.83	212.17
11/13/2022 8:04	61.6	46.8	48.53	213.78
11/13/2022 8:19	61.2	46.4	48.13	212.86
11/13/2022 8:34	61	46.2	47.93	212.40
11/13/2022 8:49	60.8	46	47.73	211.94

SOUTH TANK				
Time	Pressure Recorder	Adjusted Pressure at Recorder	Pressure at Tank Footing	Hydraulic Elevation of Water in Tank
11/13/2022 9:04	60.6	45.8	47.53	211.47
11/13/2022 9:19	61	46.2	47.93	212.40
11/13/2022 9:34	61.6	46.8	48.53	213.78
11/13/2022 9:49	62	47.2	48.93	214.71
11/13/2022 10:04	62.3	47.5	49.23	215.40
11/13/2022 10:19	62	47.2	48.93	214.71
11/13/2022 10:34	61.6	46.8	48.53	213.78
11/13/2022 10:49	61.5	46.7	48.43	213.55
11/13/2022 11:04	61.5	46.7	48.43	213.55
11/13/2022 11:19	61.1	46.3	48.03	212.63
11/13/2022 11:34	60.8	46	47.73	211.94
11/13/2022 11:49	60.6	45.8	47.53	211.47
11/13/2022 12:04	60.2	45.4	47.13	210.55
11/13/2022 12:19	60	45.2	46.93	210.09
11/13/2022 12:34	59.7	44.9	46.63	209.40
11/13/2022 12:49	59.4	44.6	46.33	208.70
11/13/2022 13:04	59.9	45.1	46.83	209.86
11/13/2022 13:19	60.3	45.5	47.23	210.78
11/13/2022 13:34	60.7	45.9	47.63	211.71
11/13/2022 13:49	61.2	46.4	48.13	212.86
11/13/2022 14:04	61.4	46.6	48.33	213.32
11/13/2022 14:19	61.6	46.8	48.53	213.78
11/13/2022 14:34	62	47.2	48.93	214.71
11/13/2022 14:49	62.3	47.5	49.23	215.40
11/13/2022 15:04	62.7	47.9	49.63	216.33
11/13/2022 15:19	62.2	47.4	49.13	215.17
11/13/2022 15:34	61.8	47	48.73	214.25
11/13/2022 15:49	61.6	46.8	48.53	213.78
11/13/2022 16:04	61.2	46.4	48.13	212.86
11/13/2022 16:19	61	46.2	47.93	212.40
11/13/2022 16:34	61.5	46.7	48.43	213.55
11/13/2022 16:49	61.7	46.9	48.63	214.02
11/13/2022 17:04	62.1	47.3	49.03	214.94
11/13/2022 17:19	62.1	47.3	49.03	214.94
11/13/2022 17:34	62	47.2	48.93	214.71
11/13/2022 17:49	61.4	46.6	48.33	213.32
11/13/2022 18:04	61.1	46.3	48.03	212.63
11/13/2022 18:19	61.4	46.6	48.33	213.32
11/13/2022 18:34	61.5	46.7	48.43	213.55
11/13/2022 18:49	61.1	46.3	48.03	212.63
11/13/2022 19:04	60.9	46.1	47.83	212.17
11/13/2022 19:19	60.6	45.8	47.53	211.47

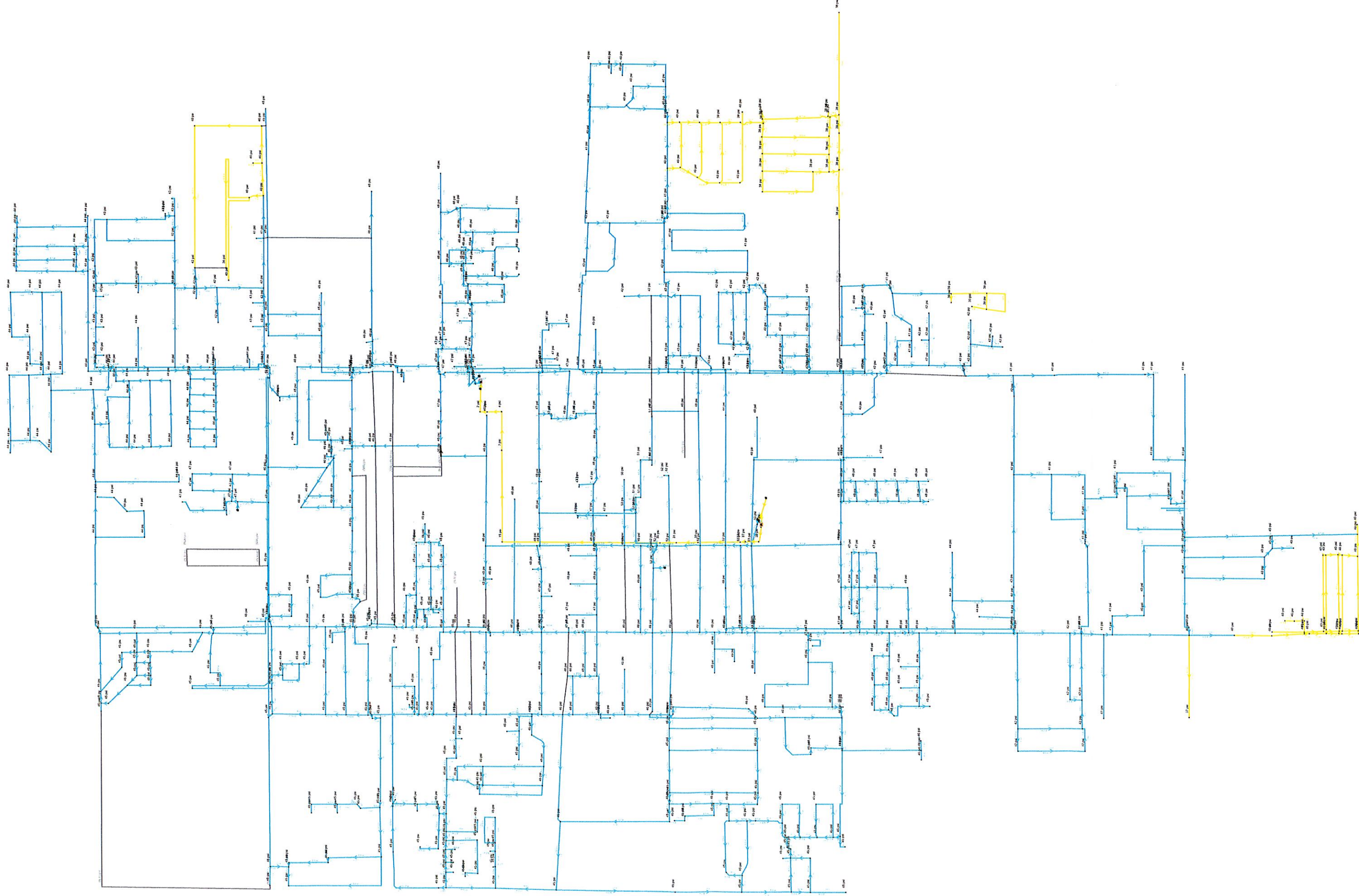
SOUTH TANK				
Time	Pressure Recorder	Adjusted Pressure at Recorder	Pressure at Tank Footing	Hydraulic Elevation of Water in Tank
11/13/2022 19:34	60.7	45.9	47.63	211.71
11/13/2022 19:49	61.1	46.3	48.03	212.63
11/13/2022 20:04	61.5	46.7	48.43	213.55
11/13/2022 20:19	61.8	47	48.73	214.25
11/13/2022 20:34	62.1	47.3	49.03	214.94
11/13/2022 20:49	62.5	47.7	49.43	215.86
11/13/2022 21:04	63	48.2	49.93	217.02
11/13/2022 21:19	63.1	48.3	50.03	217.25
11/13/2022 21:34	63	48.2	49.93	217.02
11/13/2022 21:49	62.7	47.9	49.63	216.33
11/13/2022 22:04	62.3	47.5	49.23	215.40
11/13/2022 22:19	62	47.2	48.93	214.71
11/13/2022 22:34	61.7	46.9	48.63	214.02
11/13/2022 22:49	61.4	46.6	48.33	213.32
11/13/2022 23:04	61.1	46.3	48.03	212.63
11/13/2022 23:19	60.8	46	47.73	211.94
11/13/2022 23:34	61.4	46.6	48.33	213.32
11/13/2022 23:49	61.6	46.8	48.53	213.78
11/14/2022 0:04	62	47.2	48.93	214.71
11/14/2022 0:19	62.5	47.7	49.43	215.86
11/14/2022 0:34	63.1	48.3	50.03	217.25
11/14/2022 0:49	62.9	48.1	49.83	216.79
11/14/2022 1:04	62.5	47.7	49.43	215.86
11/14/2022 1:19	62.4	47.6	49.33	215.63
11/14/2022 1:34	61.9	47.1	48.83	214.48
11/14/2022 1:49	61.8	47	48.73	214.25
11/14/2022 2:04	61.6	46.8	48.53	213.78
11/14/2022 2:19	61.4	46.6	48.33	213.32
11/14/2022 2:34	61.1	46.3	48.03	212.63
11/14/2022 2:49	61.1	46.3	48.03	212.63
11/14/2022 3:04	60.8	46	47.73	211.94
11/14/2022 3:19	60.6	45.8	47.53	211.47
11/14/2022 3:34	60.3	45.5	47.23	210.78
11/14/2022 3:49	60.8	46	47.73	211.94
11/14/2022 4:04	61.1	46.3	48.03	212.63
11/14/2022 4:19	61.9	47.1	48.83	214.48
11/14/2022 4:34	62	47.2	48.93	214.71
11/14/2022 4:49	62.1	47.3	49.03	214.94
11/14/2022 5:04	61.6	46.8	48.53	213.78
11/14/2022 5:19	61.4	46.6	48.33	213.32
11/14/2022 5:34	61.1	46.3	48.03	212.63
11/14/2022 5:49	61	46.2	47.93	212.40

SOUTH TANK				
Time	Pressure Recorder	Adjusted Pressure at Recorder	Pressure at Tank Footing	Hydraulic Elevation of Water in Tank
11/14/2022 6:04	60.8	46	47.73	211.94
11/14/2022 6:19	60.6	45.8	47.53	211.47
11/14/2022 6:34	60.6	45.8	47.53	211.47
11/14/2022 6:49	60.2	45.4	47.13	210.55
11/14/2022 7:04	60.4	45.6	47.33	211.01
11/14/2022 7:19	60.9	46.1	47.83	212.17
11/14/2022 7:34	61.3	46.5	48.23	213.09
11/14/2022 7:49	61.9	47.1	48.83	214.48
11/14/2022 8:04	61.9	47.1	48.83	214.48
11/14/2022 8:19	61.5	46.7	48.43	213.55
11/14/2022 8:34	61.3	46.5	48.23	213.09
11/14/2022 8:49	61.1	46.3	48.03	212.63
11/14/2022 9:04	60.8	46	47.73	211.94
11/14/2022 9:19	60.9	46.1	47.83	212.17
11/14/2022 9:34	61.2	46.4	48.13	212.86
11/14/2022 9:49	61.5	46.7	48.43	213.55
11/14/2022 10:04	62	47.2	48.93	214.71
11/14/2022 10:19	62.5	47.7	49.43	215.86
11/14/2022 10:34	62.7	47.9	49.63	216.33
11/14/2022 10:49	63	48.2	49.93	217.02
11/14/2022 11:04	62.5	47.7	49.43	215.86
11/14/2022 11:19	62.2	47.4	49.13	215.17
11/14/2022 11:34	62	47.2	48.93	214.71
11/14/2022 11:49	61.7	46.9	48.63	214.02

APPENDIX 2

Hydraulic Modeling Results

Scenario: 2023 Base Peak Flow @ 1.5 gpm - 6025 Connections



**Scenario: 2023 Fire Flow Analysis
@ Daily Average 1,500 gpm**

Fire Flow Results Table

Label	Is Fire Flow Run Balanced?	Satisfies Fire Flow Constraints?	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Fire Flow Status	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Residual) (psi)
J-1	True	True	1,500.00	3,341.54	1,500.00	3,341.54	Passed	39	20
J-2	True	True	1,500.00	3,065.01	1,500.00	3,065.01	Passed	38	20
J-3	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	44	31
J-4	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	44	31
J-5	True	True	1,500.00	2,889.96	1,500.00	2,889.96	Passed	37	20
J-6	True	True	1,500.00	3,236.52	1,500.00	3,236.52	Passed	39	20
J-7	True	True	1,500.00	2,642.48	1,500.00	2,642.48	Passed	36	20
J-8	True	True	1,500.00	2,429.07	1,578.63	2,507.70	Passed	34	20
J-9	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	51	47
J-10	True	True	1,500.00	3,201.27	1,500.00	3,201.27	Passed	38	20
J-11	True	True	1,500.00	3,318.21	1,500.00	3,318.21	Passed	39	20
J-12	True	True	1,500.00	3,112.76	1,500.00	3,112.76	Passed	38	20
J-13	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	46	39
J-14	True	True	1,500.00	1,535.49	1,500.00	1,535.49	Passed	21	20
J-16	True	True	1,500.00	3,209.08	1,500.00	3,209.08	Passed	39	20
J-17	True	True	1,500.00	3,017.45	1,500.00	3,017.45	Passed	38	20
J-18	True	True	1,500.00	3,189.21	1,500.00	3,189.21	Passed	38	20
J-19	True	True	1,500.00	1,909.99	1,541.13	1,951.12	Passed	27	20
J-20	True	True	1,500.00	1,758.05	1,500.00	1,758.05	Passed	25	20
J-21	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	44	33
J-22	True	True	1,500.00	2,615.99	1,500.00	2,615.99	Passed	36	20
J-23	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	40	21
J-24	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	44	32
J-25	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	29
J-26	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	26
J-27	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	28
J-28	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	29
J-29	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	49	48
J-30	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	45	37
J-31	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	45	36
J-32	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	30
J-33	True	True	1,500.00	2,888.82	1,500.00	2,888.82	Passed	37	20
J-34	True	True	1,500.00	3,059.19	1,500.00	3,059.19	Passed	38	20
J-35	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	47	44
J-36	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	49	47
J-37	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	51	48
J-38	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	49	44
J-41	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	46	39
J-42	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	47	40
J-43	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	49	44
J-44	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	47	40
J-45	True	True	1,500.00	3,129.68	1,539.63	3,169.31	Passed	39	25
J-46	True	True	1,500.00	2,346.31	1,500.00	2,346.31	Passed	35	25
J-48	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	51	48
J-50	True	True	1,500.00	2,081.79	1,500.00	2,081.79	Passed	31	20
J-51	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	51	48
J-52	True	True	1,500.00	2,205.86	1,500.00	2,205.86	Passed	33	20
J-53	True	True	1,500.00	2,522.25	1,500.00	2,522.25	Passed	36	20
J-54	True	True	1,500.00	2,202.89	1,500.00	2,202.89	Passed	33	20
J-55	True	True	1,500.00	2,486.12	1,500.00	2,486.12	Passed	36	20
J-57	True	True	1,500.00	1,587.51	1,500.00	1,587.51	Passed	23	20
J-58	True	True	1,500.00	1,524.20	1,559.88	1,584.08	Passed	21	20
J-59	True	True	1,500.00	1,689.89	1,500.00	1,689.89	Passed	25	20
J-60	True	True	1,500.00	1,619.03	1,500.00	1,619.03	Passed	23	20
J-61	True	True	1,500.00	3,101.43	1,500.00	3,101.43	Passed	40	20
J-62	True	True	1,500.00	2,717.57	1,500.00	2,717.57	Passed	38	20
J-63	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	22
J-64	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	21
J-65	True	True	1,500.00	3,297.11	1,500.00	3,297.11	Passed	39	20
J-66	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	30
J-67	True	True	1,500.00	2,808.29	1,500.00	2,808.29	Passed	39	20
J-68	True	True	1,500.00	2,685.60	1,500.00	2,685.60	Passed	38	20
J-69	True	True	1,500.00	2,014.38	1,500.00	2,014.38	Passed	31	24
J-70	True	True	1,500.00	2,153.15	1,500.00	2,153.15	Passed	34	26
J-71	True	True	1,500.00	2,726.36	1,500.00	2,726.36	Passed	20	20
J-72	True	True	1,500.00	2,202.60	1,500.00	2,202.60	Passed	33	20
J-75	True	True	1,500.00	2,756.12	1,500.00	2,756.12	Passed	37	20
J-76	True	True	1,500.00	1,960.32	1,500.00	1,960.32	Passed	30	20
J-81	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	29
J-82	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	29
J-83	True	True	1,500.00	2,118.02	1,500.00	2,118.02	Passed	33	20
J-84	True	True	1,500.00	2,830.74	1,500.00	2,830.74	Passed	38	20
J-87	True	True	1,500.00	2,907.95	1,500.00	2,907.95	Passed	38	20
J-89	True	True	1,500.00	3,384.93	1,500.00	3,384.93	Passed	42	20
J-90	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	47	41
J-91	True	True	1,500.00	2,732.56	1,500.00	2,732.56	Passed	38	20
J-92	True	True	1,500.00	2,037.09	1,500.00	2,037.09	Passed	32	20
J-95	True	True	1,500.00	3,262.08	1,500.00	3,262.08	Passed	40	20
J-96	True	True	1,500.00	2,221.75	1,500.00	2,221.75	Passed	34	20
J-99	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	44	24
J-111	True	True	1,500.00	1,762.30	1,595.88	1,858.18	Passed	25	20
J-123	True	True	1,500.00	2,105.56	1,500.00	2,105.56	Passed	32	20
J-126	True	True	1,500.00	1,858.76	1,500.00	1,858.76	Passed	29	20

Fire Flow Node FlexTable: Fire Flow Results Table

Label	Is Fire Flow Run Balanced?	Satisfies Fire Flow Constraints?	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Fire Flow Status	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Residual) (psi)
J-127	True	True	1,500.00	2,551.09	1,500.00	2,551.09	Passed	37	20
J-128	True	True	1,500.00	2,267.87	1,500.00	2,267.87	Passed	33	20
J-129	True	True	1,500.00	3,468.64	1,500.00	3,468.64	Passed	41	20
J-130	True	True	1,500.00	1,983.54	1,500.00	1,983.54	Passed	31	20
J-133	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	27
J-134	True	True	1,500.00	2,731.51	1,500.00	2,731.51	Passed	37	20
J-137	True	True	1,500.00	1,718.62	1,586.88	1,805.50	Passed	26	20
J-140	True	True	1,500.00	2,635.00	1,500.00	2,635.00	Passed	37	20
J-141	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	47	43
J-142	True	True	1,500.00	2,354.57	1,500.00	2,354.57	Passed	36	20
J-145	True	True	1,500.00	2,716.41	1,500.00	2,716.41	Passed	35	21
J-146	True	True	1,500.00	3,499.99	1,733.13	3,733.11	Passed	44	30
J-147	True	True	1,500.00	3,083.63	1,500.00	3,083.63	Passed	40	20
J-148	True	True	1,500.00	3,007.90	1,500.00	3,007.90	Passed	39	20
J-149	True	True	1,500.00	1,742.84	1,500.00	1,742.84	Passed	26	20
J-151	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	45	37
J-152	True	True	1,500.00	1,974.44	1,500.00	1,974.44	Passed	31	20
J-153	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	40	22
J-154	True	True	1,500.00	1,745.43	1,500.00	1,745.43	Passed	26	20
J-155	True	True	1,500.00	2,180.90	1,500.00	2,180.90	Passed	33	20
J-156	True	True	1,500.00	2,273.76	1,500.00	2,273.76	Passed	34	20
J-157	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	46	38
J-158	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	24
J-159	True	True	1,500.00	1,608.05	1,500.00	1,608.05	Passed	23	20
J-161	True	True	1,500.00	2,667.68	1,500.00	2,667.68	Passed	37	20
J-162	True	True	1,500.00	2,707.36	1,500.00	2,707.36	Passed	38	20
J-165	True	True	1,500.00	1,655.36	1,500.00	1,655.36	Passed	24	20
J-167	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	40	20
J-168	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	28
J-169	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	29
J-170	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	29
J-171	True	True	1,500.00	2,572.02	1,500.00	2,572.02	Passed	36	20
J-172	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	33
J-173	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	50	47
J-174	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	47	43
J-175	True	True	1,500.00	2,552.36	1,533.63	2,585.99	Passed	36	20
J-176	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	33
J-179	True	True	1,500.00	3,108.29	1,500.00	3,108.29	Passed	39	20
J-180	True	True	1,500.00	3,019.15	1,500.00	3,019.15	Passed	39	20
J-181	True	True	1,500.00	2,192.23	1,602.63	2,294.86	Passed	33	20
J-184	True	True	1,500.00	2,398.40	1,500.00	2,398.40	Passed	35	20
J-185	True	True	1,500.00	1,786.19	1,500.00	1,786.19	Passed	27	20
J-186	True	True	1,500.00	2,019.54	1,500.00	2,019.54	Passed	32	20
J-188	True	True	1,500.00	3,337.07	1,500.00	3,337.07	Passed	39	20
J-189	True	True	1,500.00	2,848.60	1,500.00	2,848.60	Passed	37	20
J-190	True	True	1,500.00	2,715.27	1,500.00	2,715.27	Passed	38	20
J-191	True	True	1,500.00	2,574.33	1,500.00	2,574.33	Passed	37	20
J-192	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	31
J-193	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	30
J-194	True	True	1,500.00	2,719.92	1,500.00	2,719.92	Passed	39	20
J-196	True	True	1,500.00	2,042.28	1,500.00	2,042.28	Passed	32	20
J-200	True	True	1,500.00	1,519.29	1,500.00	1,519.29	Passed	20	20
J-201	True	True	1,500.00	1,520.89	1,500.00	1,520.89	Passed	20	20
J-202	True	True	1,500.00	2,386.48	1,500.00	2,386.48	Passed	34	20
J-203	True	True	1,500.00	2,107.79	1,500.00	2,107.79	Passed	32	20
J-204	True	True	1,500.00	3,147.30	1,500.00	3,147.30	Passed	40	20
J-205	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	21
J-206	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	29
J-207	True	True	1,500.00	2,169.82	1,500.00	2,169.82	Passed	33	20
J-208	True	True	1,500.00	2,155.26	1,500.00	2,155.26	Passed	32	20
J-210	True	True	1,500.00	1,906.46	1,500.00	1,906.46	Passed	30	20
J-216	True	True	1,500.00	1,672.03	1,500.00	1,672.03	Passed	25	20
J-217	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	25
J-218	True	True	1,500.00	2,394.96	1,500.00	2,394.96	Passed	34	20
J-219	True	True	1,500.00	1,838.94	1,533.63	1,872.57	Passed	26	20
J-221	True	True	1,500.00	2,461.20	1,500.00	2,461.20	Passed	35	20
J-222	True	True	1,500.00	2,426.29	1,500.00	2,426.29	Passed	36	26
J-225	True	True	1,500.00	1,770.79	1,500.00	1,770.79	Passed	27	20
J-228	True	True	1,500.00	3,215.55	1,500.00	3,215.55	Passed	38	20
J-230	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	28
J-232	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	45	35
J-236	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	26
J-237	True	True	1,500.00	1,548.70	1,500.00	1,548.70	Passed	21	20
J-239	True	True	1,500.00	3,254.65	1,500.00	3,254.65	Passed	40	20
J-240	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	26
J-241	True	True	1,500.00	2,909.28	1,500.00	2,909.28	Passed	37	20
J-243	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	28
J-244	True	True	1,500.00	3,269.05	1,500.00	3,269.05	Passed	42	20
J-246	True	True	1,500.00	1,679.13	1,500.00	1,679.13	Passed	24	20
J-247	True	True	1,500.00	2,180.94	1,500.00	2,180.94	Passed	32	20
J-248	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	39	22
J-249	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	29
J-251	True	True	1,500.00	1,740.69	1,500.00	1,740.69	Passed	25	20

Fire Flow Node FlexTable: Fire Flow Results Table

Label	Is Fire Flow Run Balanced?	Satisfies Fire Flow Constraints?	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Fire Flow Status	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Residual) (psi)
J-253	True	True	1,500.00	1,797.87	1,500.00	1,797.87	Passed	27	20
J-260	True	True	1,500.00	1,936.86	1,500.00	1,936.86	Passed	31	20
J-262	True	True	1,500.00	2,438.60	1,500.00	2,438.60	Passed	35	20
J-263	True	True	1,500.00	2,283.45	1,500.00	2,283.45	Passed	33	20
J-268	True	True	1,500.00	1,846.99	1,500.00	1,846.99	Passed	26	20
J-269	True	True	1,500.00	1,607.51	1,500.00	1,607.51	Passed	22	20
J-270	True	True	1,500.00	1,519.20	1,500.00	1,519.20	Passed	22	21
J-271	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	28
J-274	True	True	1,500.00	1,869.13	1,500.00	1,869.13	Passed	29	20
J-275	True	True	1,500.00	3,135.59	1,500.00	3,135.59	Passed	40	20
J-276	True	True	1,500.00	3,174.50	1,500.00	3,174.50	Passed	40	20
J-277	True	True	1,500.00	1,889.48	1,500.00	1,889.48	Passed	27	20
J-278	True	True	1,500.00	1,565.00	1,500.00	1,565.00	Passed	22	20
J-279	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	30
J-281	True	True	1,500.00	2,758.09	1,500.00	2,758.09	Passed	37	20
J-282	True	True	1,500.00	1,936.66	1,500.00	1,936.66	Passed	29	20
J-286	True	True	1,500.00	1,516.24	1,500.00	1,516.24	Passed	24	23
J-287	True	True	1,500.00	3,257.00	1,500.00	3,257.00	Passed	42	20
J-288	True	True	1,500.00	1,507.38	1,500.00	1,507.38	Passed	20	20
J-289	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	31
J-294	True	True	1,500.00	1,657.00	1,500.00	1,657.00	Passed	23	20
J-296	True	True	1,500.00	1,685.24	1,500.00	1,685.24	Passed	25	21
J-297	True	True	1,500.00	2,873.36	1,500.00	2,873.36	Passed	38	20
J-299	True	True	1,500.00	2,256.77	1,500.00	2,256.77	Passed	34	20
J-300	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	46	39
J-301	True	True	1,500.00	2,531.13	1,500.00	2,531.13	Passed	35	20
J-304	True	True	1,500.00	1,523.32	1,500.00	1,523.32	Passed	24	23
J-305	True	True	1,500.00	2,247.04	1,500.00	2,247.04	Passed	33	23
J-307	True	True	1,500.00	2,867.84	1,500.00	2,867.84	Passed	37	20
J-309	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	29
J-310	True	True	1,500.00	2,625.97	1,500.00	2,625.97	Passed	36	20
J-311	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	52	48
J-314	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	40	22
J-315	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	29
J-316	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	30
J-317	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	29
J-318	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	31
J-319	True	True	1,500.00	3,440.95	1,500.00	3,440.95	Passed	40	24
J-320	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	33
J-323	True	True	1,500.00	3,499.99	1,541.13	3,541.12	Passed	44	33
J-327	True	True	1,500.00	1,775.83	1,616.13	1,891.96	Passed	27	20
J-331	True	True	1,500.00	1,938.66	1,500.00	1,938.66	Passed	30	24
J-334	True	True	1,500.00	2,345.39	1,500.00	2,345.39	Passed	36	26
J-335	True	True	1,500.00	2,675.79	1,500.00	2,675.79	Passed	36	20
J-336	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	31
J-338	True	True	1,500.00	1,628.03	1,500.00	1,628.03	Passed	23	20
J-340	True	True	1,500.00	3,102.36	1,608.63	3,210.99	Passed	39	20
J-341	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	23
J-342	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	30
J-343	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	30
J-344	True	True	1,500.00	2,343.72	1,500.00	2,343.72	Passed	34	24
J-345	True	True	1,500.00	2,064.25	1,500.00	2,064.25	Passed	32	20
J-346	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	21
J-348	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	52	50
J-349	True	True	1,500.00	2,245.13	1,500.00	2,245.13	Passed	33	23
J-351	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	39	22
J-352	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	23
J-353	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	24
J-357	True	True	1,500.00	2,420.61	1,500.00	2,420.61	Passed	35	20
J-359	True	True	1,500.00	1,701.88	1,500.00	1,701.88	Passed	25	20
J-360	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	32
J-361	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	45	35
J-362	True	True	1,500.00	2,796.08	1,500.00	2,796.08	Passed	34	20
J-363	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	46	37
J-364	True	True	1,500.00	2,964.55	1,500.00	2,964.55	Passed	35	20
J-365	True	True	1,500.00	1,782.11	1,500.00	1,782.11	Passed	26	21
J-366	True	True	1,500.00	3,312.14	1,500.00	3,312.14	Passed	38	20
J-367	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	30
J-369	True	True	1,500.00	2,643.77	1,500.00	2,643.77	Passed	36	20
J-370	True	True	1,500.00	2,369.51	1,500.00	2,369.51	Passed	34	20
J-371	True	True	1,500.00	2,321.10	1,500.00	2,321.10	Passed	34	20
J-374	True	True	1,500.00	1,518.12	1,500.00	1,518.12	Passed	20	20
J-375	True	True	1,500.00	2,874.12	1,500.00	2,874.12	Passed	35	22
J-378	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	44	30
J-379	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	44	27
J-380	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	25
J-381	True	True	1,500.00	1,538.45	1,500.00	1,538.45	Passed	21	20
J-382	True	True	1,500.00	1,523.43	1,500.00	1,523.43	Passed	21	20
J-383	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	31
J-384	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	28
J-386	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	29
J-387	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	28
J-388	True	True	1,500.00	3,246.72	1,500.00	3,246.72	Passed	39	20

Fire Flow Node FlexTable: Fire Flow Results Table

Label	Is Fire Flow Run Balanced?	Satisfies Fire Flow Constraints?	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Fire Flow Status	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Residual) (psi)
J-389	True	True	1,500.00	1,623.86	1,500.00	1,623.86	Passed	22	20
J-393	True	True	1,500.00	1,546.08	1,500.00	1,546.08	Passed	21	20
J-394	True	True	1,500.00	2,663.38	1,500.00	2,663.38	Passed	36	20
J-395	True	True	1,500.00	2,660.00	1,500.00	2,660.00	Passed	36	20
J-396	True	True	1,500.00	2,899.50	1,500.00	2,899.50	Passed	37	20
J-397	True	True	1,500.00	2,903.37	1,500.00	2,903.37	Passed	37	20
J-398	True	True	1,500.00	2,779.63	1,500.00	2,779.63	Passed	37	20
J-399	True	True	1,500.00	2,742.38	1,500.00	2,742.38	Passed	37	20
J-404	True	True	1,500.00	3,232.21	1,500.00	3,232.21	Passed	39	20
J-405	True	True	1,500.00	3,197.45	1,500.00	3,197.45	Passed	38	20
J-406	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	27
J-410	True	True	1,500.00	3,351.85	1,500.00	3,351.85	Passed	41	20
J-411	True	True	1,500.00	2,933.72	1,514.13	2,947.85	Passed	40	20
J-412	True	True	1,500.00	2,494.22	1,500.00	2,494.22	Passed	36	20
J-415	True	True	1,500.00	1,991.89	1,500.00	1,991.89	Passed	30	20
J-416	True	True	1,500.00	2,066.08	1,500.00	2,066.08	Passed	31	20
J-417	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	45	27
J-418	True	True	1,500.00	3,499.99	1,629.63	3,629.62	Passed	46	31
J-419	True	True	1,500.00	1,584.11	1,500.00	1,584.11	Passed	22	20
J-420	True	True	1,500.00	1,624.60	1,500.00	1,624.60	Passed	23	20
J-421	True	True	1,500.00	1,545.21	1,500.00	1,545.21	Passed	21	20
J-422	True	True	1,500.00	1,531.12	1,500.00	1,531.12	Passed	21	20
J-423	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	27
J-424	True	True	1,500.00	3,466.71	1,500.00	3,466.71	Passed	40	20
J-425	True	True	1,500.00	2,659.71	1,500.00	2,659.71	Passed	36	20
J-428	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	40	21
J-429	True	True	1,500.00	1,820.03	1,500.00	1,820.03	Passed	27	20
J-430	True	True	1,500.00	2,257.40	1,500.00	2,257.40	Passed	33	23
J-431	True	True	1,500.00	1,883.66	1,500.00	1,883.66	Passed	28	20
J-432	True	True	1,500.00	2,328.53	1,500.00	2,328.53	Passed	34	24
J-433	True	True	1,500.00	1,804.67	1,500.00	1,804.67	Passed	27	20
J-438	True	True	1,500.00	2,019.92	1,500.00	2,019.92	Passed	31	20
J-439	True	True	1,500.00	2,571.22	1,500.00	2,571.22	Passed	35	20
J-440	True	True	1,500.00	2,668.48	1,500.00	2,668.48	Passed	36	20
J-442	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	46	33
J-443	True	True	1,500.00	2,210.00	1,500.00	2,210.00	Passed	35	20
J-444	True	True	1,500.00	2,416.83	1,500.00	2,416.83	Passed	38	20
J-445	True	True	1,500.00	2,428.90	1,500.00	2,428.90	Passed	35	26
J-446	True	True	1,500.00	2,415.77	1,500.00	2,415.77	Passed	34	23
J-447	True	True	1,500.00	3,173.27	1,500.00	3,173.27	Passed	39	20
J-448	True	True	1,500.00	3,247.41	1,500.00	3,247.41	Passed	39	20
J-449	True	True	1,500.00	2,440.86	1,500.00	2,440.86	Passed	35	20
J-450	True	True	1,500.00	2,435.48	1,500.00	2,435.48	Passed	35	20
J-455	True	True	1,500.00	2,890.36	1,500.00	2,890.36	Passed	39	20
J-456	True	True	1,500.00	2,499.52	1,500.00	2,499.52	Passed	36	20
J-458	True	True	1,500.00	2,378.90	1,500.00	2,378.90	Passed	34	20
J-459	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	30
J-460	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	40	24
J-462	True	True	1,500.00	3,305.95	1,500.00	3,305.95	Passed	39	20
J-463	True	True	1,500.00	2,182.25	1,500.00	2,182.25	Passed	34	25
J-464	True	True	1,500.00	2,209.32	1,571.13	2,280.45	Passed	33	23
J-465	True	True	1,500.00	2,242.47	1,571.13	2,313.59	Passed	33	23
J-467	True	True	1,500.00	2,560.68	1,500.00	2,560.68	Passed	35	20
J-468	True	True	1,500.00	2,530.23	1,500.00	2,530.23	Passed	35	20
J-471	True	True	1,500.00	1,752.07	1,500.00	1,752.07	Passed	25	20
J-472	True	True	1,500.00	2,021.14	1,646.13	2,167.27	Passed	28	20
J-473	True	True	1,500.00	2,767.91	1,500.00	2,767.91	Passed	37	20
J-474	True	True	1,500.00	2,731.29	1,500.00	2,731.29	Passed	37	20
J-475	True	True	1,500.00	2,277.60	1,500.00	2,277.60	Passed	34	20
J-476	True	True	1,500.00	2,306.85	1,500.00	2,306.85	Passed	35	20
J-477	True	True	1,500.00	2,799.37	1,500.00	2,799.37	Passed	37	20
J-478	True	True	1,500.00	2,822.04	1,500.00	2,822.04	Passed	37	20
J-479	True	True	1,500.00	2,572.11	1,500.00	2,572.11	Passed	37	20
J-480	True	True	1,500.00	2,397.64	1,500.00	2,397.64	Passed	35	20
J-481	True	True	1,500.00	1,829.80	1,500.00	1,829.80	Passed	26	20
J-482	True	True	1,500.00	1,877.68	1,500.00	1,877.68	Passed	27	21
J-483	True	True	1,500.00	1,926.68	1,500.00	1,926.68	Passed	30	20
J-484	True	True	1,500.00	1,988.15	1,500.00	1,988.15	Passed	30	20
J-489	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	48	43
J-490	True	True	1,500.00	2,318.47	1,500.00	2,318.47	Passed	32	20
J-491	True	True	1,500.00	2,219.46	1,500.00	2,219.46	Passed	31	20
J-494	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	40	20
J-495	True	True	1,500.00	3,260.13	1,500.00	3,260.13	Passed	39	20
J-496	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	30
J-503	True	True	1,500.00	2,851.42	1,500.00	2,851.42	Passed	39	20
J-508	True	True	1,500.00	1,942.23	1,500.00	1,942.23	Passed	29	20
J-509	True	True	1,500.00	1,827.46	1,500.00	1,827.46	Passed	28	20
J-510	True	True	1,500.00	2,701.23	1,500.00	2,701.23	Passed	36	20
J-511	True	True	1,500.00	2,654.49	1,500.00	2,654.49	Passed	36	20
J-512	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	30
J-513	True	True	1,500.00	2,312.64	1,500.00	2,312.64	Passed	34	20
J-514	True	True	1,500.00	2,793.29	1,500.00	2,793.29	Passed	37	20
J-515	True	True	1,500.00	2,936.78	1,500.00	2,936.78	Passed	37	20

Fire Flow Node FlexTable: Fire Flow Results Table

Label	Is Fire Flow Run Balanced?	Satisfies Fire Flow Constraints?	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Fire Flow Status	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Residual) (psi)
J-516	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	44	31
J-517	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	45	34
J-520	True	True	1,500.00	2,607.90	1,500.00	2,607.90	Passed	37	21
J-521	True	True	1,500.00	2,482.05	1,500.00	2,482.05	Passed	36	20
J-523	True	True	1,500.00	2,344.85	1,500.00	2,344.85	Passed	35	25
J-527	True	True	1,500.00	2,597.31	1,500.00	2,597.31	Passed	37	20
J-529	True	True	1,500.00	1,974.90	1,572.53	2,047.53	Passed	29	20
J-530	True	True	1,500.00	2,240.09	1,500.00	2,240.09	Passed	32	20
J-531	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	28
J-532	True	True	1,500.00	2,437.44	1,622.13	2,559.57	Passed	34	20
J-533	True	True	1,500.00	2,653.67	1,500.00	2,653.67	Passed	36	20
J-537	True	True	1,500.00	1,545.54	1,500.00	1,545.54	Passed	21	20
J-540	True	True	1,500.00	3,120.92	1,500.00	3,120.92	Passed	38	20
J-542	True	True	1,500.00	1,746.34	1,500.00	1,746.34	Passed	25	21
J-544	True	True	1,500.00	2,339.67	1,500.00	2,339.67	Passed	33	20
J-545	True	True	1,500.00	2,402.87	1,500.00	2,402.87	Passed	33	21
J-550	True	True	1,500.00	2,722.17	1,500.00	2,722.17	Passed	36	20
J-557	True	True	1,500.00	2,963.27	1,500.00	2,963.27	Passed	38	20
J-558	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	45	38
J-559	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	22
J-561	True	True	1,500.00	2,313.62	1,500.00	2,313.62	Passed	32	22
J-562	True	True	1,500.00	1,998.57	1,500.00	1,998.57	Passed	29	22
J-563	True	True	1,500.00	2,064.12	1,500.00	2,064.12	Passed	29	21
J-564	True	True	1,500.00	2,184.18	1,500.00	2,184.18	Passed	30	21
J-565	True	True	1,500.00	2,875.15	1,500.00	2,875.15	Passed	37	20
J-566	True	True	1,500.00	2,842.48	1,500.00	2,842.48	Passed	37	20
J-579	True	True	1,500.00	2,393.88	1,500.00	2,393.88	Passed	34	22
J-580	True	True	1,500.00	2,402.35	1,500.00	2,402.35	Passed	33	20
J-583	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	45	32
J-584	True	True	1,500.00	2,509.62	1,500.00	2,509.62	Passed	35	20
J-585	True	True	1,500.00	2,782.64	1,500.00	2,782.64	Passed	36	20
J-587	True	True	1,500.00	3,159.92	1,500.00	3,159.92	Passed	38	20
J-591	True	True	1,500.00	2,595.71	1,500.00	2,595.71	Passed	35	22
J-592	True	True	1,500.00	2,181.03	1,500.00	2,181.03	Passed	31	20
J-594	True	True	1,500.00	3,497.70	1,500.00	3,497.70	Passed	40	20
J-595	True	True	1,500.00	2,818.29	1,500.00	2,818.29	Passed	37	20
J-596	True	True	1,500.00	3,499.99	1,559.88	3,559.87	Passed	39	22
J-601	True	True	1,500.00	2,097.75	1,500.00	2,097.75	Passed	33	26
J-606	True	True	1,500.00	2,891.89	1,500.00	2,891.89	Passed	37	20
J-607	True	True	1,500.00	2,946.67	1,500.00	2,946.67	Passed	37	20
J-608	True	True	1,500.00	2,568.99	1,500.00	2,568.99	Passed	36	25
J-609	True	True	1,500.00	2,233.15	1,572.63	2,305.78	Passed	33	20
J-610	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	40	22
J-612	True	True	1,500.00	2,211.92	1,500.00	2,211.92	Passed	33	20
J-613	True	True	1,500.00	3,185.44	1,500.00	3,185.44	Passed	39	20
J-614	True	True	1,500.00	1,852.36	1,500.00	1,852.36	Passed	28	20
J-620	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	40	22
J-621	True	True	1,500.00	2,395.72	1,500.00	2,395.72	Passed	36	20
J-622	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	29
J-623	True	True	1,500.00	1,828.81	1,500.00	1,828.81	Passed	25	20
J-624	True	True	1,500.00	2,818.34	1,500.00	2,818.34	Passed	37	20
J-629	True	True	1,500.00	2,917.47	1,500.00	2,917.47	Passed	37	20
J-630	True	True	1,500.00	2,757.09	1,500.00	2,757.09	Passed	37	20
J-631	True	True	1,500.00	1,536.81	1,500.00	1,536.81	Passed	23	22
J-635	True	True	1,500.00	2,130.55	1,593.63	2,224.18	Passed	31	20
J-636	True	True	1,500.00	2,781.32	1,500.00	2,781.32	Passed	37	20
J-637	True	True	1,500.00	2,653.08	1,500.00	2,653.08	Passed	38	20
J-639	True	True	1,500.00	3,111.09	1,500.00	3,111.09	Passed	39	25
J-640	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	45	37
J-641	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	45	32
J-643	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	24
J-644	True	True	1,500.00	2,806.16	1,500.00	2,806.16	Passed	37	20
J-645	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	45	30
J-646	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	30
J-647	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	51	48
J-650	True	True	1,500.00	2,281.55	1,500.00	2,281.55	Passed	33	20
J-651	True	True	1,500.00	2,757.56	1,500.00	2,757.56	Passed	38	20
J-652	True	True	1,500.00	2,404.57	1,500.00	2,404.57	Passed	36	20
J-676	True	True	1,500.00	2,004.52	1,500.00	2,004.52	Passed	28	20
J-678	True	True	1,500.00	2,910.01	1,500.00	2,910.01	Passed	37	20
J-679	True	True	1,500.00	1,566.95	1,500.00	1,566.95	Passed	22	20
J-680	True	True	1,500.00	1,502.63	1,500.00	1,502.63	Passed	20	20
J-681	True	True	1,500.00	1,502.61	1,500.00	1,502.61	Passed	20	20
J-682	True	True	1,500.00	2,784.10	1,500.00	2,784.10	Passed	36	22
J-683	True	True	1,500.00	2,434.97	1,500.00	2,434.97	Passed	33	20
J-684	True	True	1,500.00	2,278.97	1,500.00	2,278.97	Passed	32	20
J-685	True	True	1,500.00	2,199.56	1,599.63	2,299.19	Passed	31	20
J-686	True	True	1,500.00	2,275.98	1,500.00	2,275.98	Passed	32	20
J-687	True	True	1,500.00	2,292.16	1,500.00	2,292.16	Passed	32	20
J-688	True	True	1,500.00	2,313.70	1,500.00	2,313.70	Passed	32	20
J-691	True	True	1,500.00	2,684.57	1,500.00	2,684.57	Passed	35	22
J-692	True	True	1,500.00	1,970.95	1,500.00	1,970.95	Passed	29	20
J-693	True	True	1,500.00	2,770.07	1,500.00	2,770.07	Passed	36	20

Fire Flow Node FlexTable: Fire Flow Results Table

Label	Is Fire Flow Run Balanced?	Satisfies Fire Flow Constraints?	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Fire Flow Status	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Residual) (psi)
J-694	True	True	1,500.00	2,118.96	1,500.00	2,118.96	Passed	31	20
J-695	True	True	1,500.00	2,277.34	1,500.00	2,277.34	Passed	33	20
J-696	True	True	1,500.00	2,529.19	1,500.00	2,529.19	Passed	35	20
J-697	True	True	1,500.00	2,801.36	1,500.00	2,801.36	Passed	36	20
J-698	True	True	1,500.00	3,179.41	1,500.00	3,179.41	Passed	38	22
J-699	True	True	1,500.00	2,406.85	1,500.00	2,406.85	Passed	34	20
J-700	True	True	1,500.00	2,952.81	1,500.00	2,952.81	Passed	37	22
J-701	True	True	1,500.00	3,051.62	1,500.00	3,051.62	Passed	38	20
J-702	True	True	1,500.00	3,284.99	1,500.00	3,284.99	Passed	39	20
J-703	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	28
J-705	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	29
J-706	True	True	1,500.00	2,543.45	1,500.00	2,543.45	Passed	35	20
J-707	True	True	1,500.00	2,467.64	1,500.00	2,467.64	Passed	34	20
J-708	True	True	1,500.00	2,308.93	1,500.00	2,308.93	Passed	33	20
J-709	True	True	1,500.00	2,311.21	1,500.00	2,311.21	Passed	33	20
J-710	True	True	1,500.00	2,497.95	1,500.00	2,497.95	Passed	35	20
J-711	True	True	1,500.00	2,301.07	1,500.00	2,301.07	Passed	33	20
J-712	True	True	1,500.00	1,766.28	1,500.00	1,766.28	Passed	26	20
J-713	True	True	1,500.00	2,345.99	1,500.00	2,345.99	Passed	34	20
J-714	True	True	1,500.00	2,716.88	1,500.00	2,716.88	Passed	36	20
J-715	True	True	1,500.00	2,765.16	1,500.00	2,765.16	Passed	36	20
J-716	True	True	1,500.00	2,392.36	1,500.00	2,392.36	Passed	34	20
J-717	True	True	1,500.00	1,874.43	1,500.00	1,874.43	Passed	28	20
J-718	True	True	1,500.00	1,818.75	1,500.00	1,818.75	Passed	27	20
J-719	True	True	1,500.00	1,712.01	1,500.00	1,712.01	Passed	25	20
J-720	True	True	1,500.00	2,945.39	1,500.00	2,945.39	Passed	37	20
J-721	True	True	1,500.00	2,788.70	1,500.00	2,788.70	Passed	36	20
J-722	True	True	1,500.00	2,825.42	1,602.63	2,928.05	Passed	37	20
J-723	True	True	1,500.00	2,722.43	1,500.00	2,722.43	Passed	36	20
J-724	True	True	1,500.00	2,754.61	1,500.00	2,754.61	Passed	36	20
J-725	True	True	1,500.00	2,625.45	1,500.00	2,625.45	Passed	36	20
J-726	True	True	1,500.00	2,568.46	1,568.13	2,636.59	Passed	35	20
J-727	True	True	1,500.00	3,078.23	1,500.00	3,078.23	Passed	38	20
J-728	True	True	1,500.00	3,376.30	1,500.00	3,376.30	Passed	39	20
J-729	True	True	1,500.00	3,176.08	1,563.63	3,239.71	Passed	39	20
J-730	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	40	22
J-731	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	25
J-732	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	46	37
J-733	True	True	1,500.00	1,920.24	1,500.00	1,920.24	Passed	29	20
J-734	True	True	1,500.00	2,097.02	1,500.00	2,097.02	Passed	31	20
J-735	True	True	1,500.00	2,960.29	1,500.00	2,960.29	Passed	38	20
J-736	True	True	1,500.00	2,908.05	1,500.00	2,908.05	Passed	37	20
J-737	True	True	1,500.00	2,075.57	1,500.00	2,075.57	Passed	31	20
J-738	True	True	1,500.00	1,677.44	1,500.00	1,677.44	Passed	25	20
J-739	True	True	1,500.00	1,576.30	1,500.00	1,576.30	Passed	22	20
J-740	True	True	1,500.00	1,551.50	1,500.00	1,551.50	Passed	22	20
J-741	True	True	1,500.00	2,993.63	1,500.00	2,993.63	Passed	38	20
J-742	True	True	1,500.00	2,682.05	1,500.00	2,682.05	Passed	36	20
J-743	True	True	1,500.00	2,921.17	1,500.00	2,921.17	Passed	37	20
J-744	True	True	1,500.00	2,624.19	1,500.00	2,624.19	Passed	36	20
J-745	True	True	1,500.00	2,891.08	1,500.00	2,891.08	Passed	37	20
J-746	True	True	1,500.00	2,545.85	1,500.00	2,545.85	Passed	35	20
J-747	True	True	1,500.00	2,961.17	1,500.00	2,961.17	Passed	38	20
J-748	True	True	1,500.00	2,173.05	1,500.00	2,173.05	Passed	32	20
J-749	True	True	1,500.00	2,325.63	1,500.00	2,325.63	Passed	34	20
J-751	True	True	1,500.00	1,583.09	1,500.00	1,583.09	Passed	22	20
J-752	True	True	1,500.00	1,656.00	1,500.00	1,656.00	Passed	24	20
J-753	True	True	1,500.00	1,624.25	1,500.00	1,624.25	Passed	23	20
J-754	True	True	1,500.00	1,572.13	1,500.00	1,572.13	Passed	22	20
J-755	True	True	1,500.00	1,619.71	1,500.00	1,619.71	Passed	23	20
J-756	True	True	1,500.00	1,622.30	1,500.00	1,622.30	Passed	23	20
J-757	True	True	1,500.00	1,828.26	1,500.00	1,828.26	Passed	27	20
J-758	True	True	1,500.00	2,389.01	1,500.00	2,389.01	Passed	35	25
J-759	True	True	1,500.00	1,718.21	1,500.00	1,718.21	Passed	25	20
J-760	True	True	1,500.00	1,646.20	1,500.00	1,646.20	Passed	24	20
J-761	True	True	1,500.00	1,543.14	1,500.00	1,543.14	Passed	21	20
J-762	True	True	1,500.00	1,540.19	1,500.00	1,540.19	Passed	21	20
J-763	True	True	1,500.00	1,505.79	1,500.00	1,505.79	Passed	20	20
J-765	True	True	1,500.00	1,513.84	1,500.00	1,513.84	Passed	20	20
J-766	True	True	1,500.00	1,577.35	1,500.00	1,577.35	Passed	22	20
J-767	True	True	1,500.00	1,641.25	1,500.00	1,641.25	Passed	24	20
J-768	True	True	1,500.00	1,566.83	1,500.00	1,566.83	Passed	22	20
J-769	True	True	1,500.00	1,696.35	1,500.00	1,696.35	Passed	25	20
J-774	True	True	1,500.00	2,027.10	1,500.00	2,027.10	Passed	30	20
J-784	True	True	1,500.00	1,657.64	1,500.00	1,657.64	Passed	24	21
J-785	True	True	1,500.00	1,778.97	1,500.00	1,778.97	Passed	25	20
J-786	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	26
J-787	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	27
J-788	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	29
J-789	True	True	1,500.00	3,345.12	1,500.00	3,345.12	Passed	41	20
J-790	True	True	1,500.00	3,397.04	1,500.00	3,397.04	Passed	41	20
J-792	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	52	48
J-793	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	51	48

Fire Flow Node FlexTable: Fire Flow Results Table

Label	Is Fire Flow Run Balanced?	Satisfies Fire Flow Constraints?	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Fire Flow Status	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Residual) (psi)
J-794	True	True	1,500.00	1,620.76	1,500.00	1,620.76	Passed	23	20
J-795	True	True	1,500.00	2,381.37	1,500.00	2,381.37	Passed	34	20
J-797	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	52	49
J-798	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	50	47
J-801	True	True	1,500.00	2,560.53	1,562.13	2,622.66	Passed	35	20
J-803	True	True	1,500.00	2,477.15	1,697.88	2,675.03	Passed	37	20
J-812	True	True	1,500.00	1,841.45	1,572.63	1,914.08	Passed	28	20
J-813	True	True	1,500.00	3,448.60	1,665.63	3,614.23	Passed	39	20
J-814	True	True	1,500.00	2,285.35	1,500.00	2,285.35	Passed	34	20
J-815	True	True	1,500.00	1,556.38	1,547.13	1,603.51	Passed	22	20
J-816	True	True	1,500.00	2,199.88	1,601.88	2,301.76	Passed	33	20
J-817	True	True	1,500.00	2,083.50	1,581.63	2,165.13	Passed	31	20
J-818	True	True	1,500.00	1,995.57	1,581.63	2,077.20	Passed	30	20
J-819	True	True	1,500.00	2,637.18	1,646.13	2,783.31	Passed	36	20
J-820	True	True	1,500.00	2,262.15	1,533.63	2,295.78	Passed	34	20
J-821	True	True	1,500.00	3,499.99	1,608.63	3,608.62	Passed	46	39
J-823	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	46	38
J-1045	True	True	1,500.00	1,781.31	1,500.00	1,781.31	Passed	26	21
J-1048	True	True	1,500.00	1,503.68	1,500.00	1,503.68	Passed	20	20
J-1050	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	27
J-1052	True	True	1,500.00	2,124.61	1,500.00	2,124.61	Passed	32	25
J-1059	True	True	1,500.00	3,306.99	1,500.00	3,306.99	Passed	40	21
J-1060	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	45	35
J-15	True	False	1,500.00	1,496.98	1,500.00	1,496.98	Residual Pressure and Zone Pressure Failed	20	20
J-39	True	False	1,500.00	1,204.77	1,500.00	1,204.77	Zone Pressure Failed	16	22
J-40	True	False	1,500.00	1,213.20	1,500.00	1,213.20	Zone Pressure Failed	16	22
J-49	True	False	1,500.00	929.29	1,646.13	1,075.42	Residual Pressure Failed	-11	20
J-56	True	False	1,500.00	721.59	1,500.00	721.59	Zone Pressure Failed	-18	22
J-73	True	False	1,500.00	907.51	1,500.00	907.51	Residual Pressure and Zone Pressure Failed	-13	20
J-74	True	False	1,500.00	872.30	1,500.00	872.30	Residual Pressure Failed	-18	20
J-77	True	False	1,500.00	1,331.93	1,500.00	1,331.93	Residual Pressure and Zone Pressure Failed	13	20
J-78	True	False	1,500.00	1,303.70	1,500.00	1,303.70	Residual Pressure and Zone Pressure Failed	12	20
J-79	True	False	1,500.00	1,033.61	1,500.00	1,033.61	Residual Pressure and Zone Pressure Failed	6	20
J-80	True	False	1,500.00	1,026.26	1,500.00	1,026.26	Residual Pressure and Zone Pressure Failed	6	20
J-85	True	False	1,500.00	976.01	1,500.00	976.01	Residual Pressure and Zone Pressure Failed	-3	20
J-86	True	False	1,500.00	911.18	1,500.00	911.18	Residual Pressure Failed	-8	20
J-88	True	False	1,500.00	1,419.64	1,500.00	1,419.64	Residual Pressure Failed	17	20
J-93	True	False	1,500.00	1,289.09	1,500.00	1,289.09	Residual Pressure Failed	14	20
J-94	True	False	1,500.00	1,303.04	1,500.00	1,303.04	Residual Pressure Failed	15	20

Fire Flow Node FlexTable: Fire Flow Results Table

Label	Is Fire Flow Run Balanced?	Satisfies Fire Flow Constraints?	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Fire Flow Status	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Residual) (psi)
J-97	True	False	1,500.00	660.42	1,500.00	660.42	Residual Pressure and Zone Pressure Failed	-30	20
J-98	True	False	1,500.00	634.09	1,500.00	634.09	Residual Pressure and Zone Pressure Failed	-37	20
J-100	True	False	1,500.00	1,359.72	1,500.00	1,359.72	Residual Pressure and Zone Pressure Failed	16	20
J-101	True	False	1,500.00	1,169.62	1,500.00	1,169.62	Residual Pressure and Zone Pressure Failed	6	20
J-102	True	False	1,500.00	701.02	1,500.00	701.02	Residual Pressure and Zone Pressure Failed	-24	20
J-103	True	False	1,500.00	671.68	1,500.00	671.68	Residual Pressure and Zone Pressure Failed	-31	20
J-104	True	False	1,500.00	478.80	1,500.00	478.80	Residual Pressure and Zone Pressure Failed	-71	20
J-105	True	False	1,500.00	454.59	1,716.63	671.22	Residual Pressure and Zone Pressure Failed	-80	20
J-106	True	False	1,500.00	1,222.98	1,500.00	1,222.98	Residual Pressure and Zone Pressure Failed	11	20
J-107	True	False	1,500.00	1,380.91	1,595.88	1,476.79	Residual Pressure and Zone Pressure Failed	17	20
J-108	True	False	1,500.00	617.59	1,500.00	617.59	Residual Pressure and Zone Pressure Failed	-32	22
J-109	True	False	1,500.00	617.70	1,500.00	617.70	Residual Pressure and Zone Pressure Failed	-39	20
J-110	True	False	1,500.00	1,470.90	1,500.00	1,470.90	Residual Pressure and Zone Pressure Failed	19	20
J-112	True	False	1,500.00	1,274.16	1,500.00	1,274.16	Residual Pressure and Zone Pressure Failed	13	20
J-113	True	False	1,500.00	1,455.87	1,500.00	1,455.87	Residual Pressure and Zone Pressure Failed	19	20
J-114	True	False	1,500.00	721.33	1,500.00	721.33	Residual Pressure and Zone Pressure Failed	-12	24
J-115	True	False	1,500.00	1,373.54	1,500.00	1,373.54	Residual Pressure and Zone Pressure Failed	16	20
J-116	True	False	1,500.00	1,269.24	1,500.00	1,269.24	Residual Pressure and Zone Pressure Failed	11	20
J-117	True	False	1,500.00	1,068.50	1,500.00	1,068.50	Residual Pressure and Zone Pressure Failed	2	20
J-118	True	False	1,500.00	1,087.43	1,500.00	1,087.43	Residual Pressure and Zone Pressure Failed	3	20
J-119	True	False	1,500.00	1,381.99	1,500.00	1,381.99	Residual Pressure and Zone Pressure Failed	19	22
J-120	True	False	1,500.00	1,216.82	1,500.00	1,216.82	Residual Pressure and Zone Pressure Failed	10	20
J-121	True	False	1,500.00	1,216.26	1,500.00	1,216.26	Residual Pressure and Zone Pressure Failed	16	23
J-122	True	False	1,500.00	1,134.75	1,500.00	1,134.75	Residual Pressure and Zone Pressure Failed	7	20

Fire Flow Node FlexTable: Fire Flow Results Table

Label	Is Fire Flow Run Balanced?	Satisfies Fire Flow Constraints?	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Fire Flow Status	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Residual) (psi)
J-124	True	False	1,500.00	799.00	1,500.00	799.00	Residual Pressure and Zone Pressure Failed	-21	20
J-125	True	False	1,500.00	746.82	1,500.00	746.82	Residual Pressure Failed	-29	20
J-131	True	False	1,500.00	423.28	1,500.00	423.28	Residual Pressure Failed	-124	20
J-132	True	False	1,500.00	245.36	1,706.88	452.24	Residual Pressure Failed	-214	20
J-135	True	False	1,500.00	592.67	1,500.00	592.67	Zone Pressure Failed	-27	24
J-136	True	False	1,500.00	523.68	1,500.00	523.68	Zone Pressure Failed	-42	23
J-138	True	False	1,500.00	1,430.90	1,800.00	1,430.90	Residual Pressure and Zone Pressure Failed	18	20
J-139	True	False	1,500.00	1,131.89	1,500.00	1,131.89	Residual Pressure Failed	7	20
J-143	True	False	1,500.00	423.86	1,500.00	423.86	Residual Pressure and Zone Pressure Failed	-105	20
J-144	True	False	1,500.00	432.40	1,500.00	432.40	Residual Pressure and Zone Pressure Failed	-99	20
J-150	True	False	1,500.00	1,430.70	1,500.00	1,430.70	Residual Pressure Failed	18	20
J-160	True	False	1,500.00	1,451.57	1,500.00	1,451.57	Residual Pressure and Zone Pressure Failed	18	20
J-163	True	False	1,500.00	1,168.30	1,500.00	1,168.30	Residual Pressure Failed	8	20
J-164	True	False	1,500.00	1,166.73	1,500.00	1,166.73	Residual Pressure Failed	8	20
J-166	True	False	1,500.00	1,202.57	1,586.88	1,289.45	Residual Pressure Failed	8	20
J-177	True	False	1,500.00	1,084.82	1,500.00	1,084.82	Residual Pressure and Zone Pressure Failed	0	20
J-178	True	False	1,500.00	1,243.82	1,500.00	1,243.82	Residual Pressure and Zone Pressure Failed	10	20
J-182	True	False	1,500.00	1,321.88	1,500.00	1,321.88	Zone Pressure Failed	19	24
J-183	True	False	1,500.00	818.46	1,694.13	1,012.59	Residual Pressure Failed	-15	20
J-187	True	False	1,500.00	1,208.66	1,500.00	1,208.66	Residual Pressure Failed	6	20
J-195	True	False	1,500.00	1,444.61	1,500.00	1,444.61	Residual Pressure Failed	18	20
J-197	True	False	1,500.00	1,291.70	1,500.00	1,291.70	Residual Pressure Failed	11	20
J-198	True	False	1,500.00	1,483.40	1,500.00	1,483.40	Residual Pressure and Zone Pressure Failed	20	20
J-199	True	False	1,500.00	1,488.29	1,500.00	1,488.29	Residual Pressure and Zone Pressure Failed	20	20

Fire Flow Node FlexTable: Fire Flow Results Table

Label	Is Fire Flow Run Balanced?	Satisfies Fire Flow Constraints?	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Fire Flow Status	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Residual) (psi)
J-209	True	False	1,500.00	1,416.07	1,500.00	1,416.07	Residual Pressure Failed	17	20
J-211	True	False	1,500.00	1,230.26	1,500.00	1,230.26	Residual Pressure Failed	6	20
J-212	True	False	1,500.00	1,420.11	1,500.00	1,420.11	Residual Pressure and Zone Pressure Failed	18	20
J-213	True	False	1,500.00	1,446.30	1,500.00	1,446.30	Residual Pressure and Zone Pressure Failed	18	20
J-214	True	False	1,500.00	1,454.34	1,500.00	1,454.34	Zone Pressure Failed	20	21
J-215	True	False	1,500.00	1,000.79	1,500.00	1,000.79	Zone Pressure Failed	3	21
J-220	True	False	1,500.00	1,325.02	1,500.00	1,325.02	Residual Pressure and Zone Pressure Failed	15	20
J-223	True	False	1,500.00	952.64	1,500.00	952.64	Residual Pressure and Zone Pressure Failed	-4	20
J-224	True	False	1,500.00	744.98	1,500.00	744.98	Residual Pressure Failed	-30	20
J-226	True	False	1,500.00	1,497.05	1,500.00	1,497.05	Residual Pressure Failed	20	20
J-227	True	False	1,500.00	1,188.21	1,500.00	1,188.21	Residual Pressure Failed	7	20
J-229	True	False	1,500.00	1,071.09	1,500.00	1,071.09	Residual Pressure Failed	-2	20
J-231	True	False	1,500.00	1,331.75	1,500.00	1,331.75	Residual Pressure Failed	13	20
J-233	True	False	1,500.00	1,043.76	1,500.00	1,043.76	Residual Pressure Failed	-7	20
J-234	True	False	1,500.00	1,441.40	1,500.00	1,441.40	Residual Pressure and Zone Pressure Failed	19	20
J-235	True	False	1,500.00	1,452.52	1,500.00	1,452.52	Residual Pressure Failed	19	20
J-238	True	False	1,500.00	878.22	1,500.00	878.22	Residual Pressure Failed	-13	20
J-242	True	False	1,500.00	1,058.63	1,500.00	1,058.63	Residual Pressure Failed	-2	20
J-245	True	False	1,500.00	1,114.48	1,619.13	1,233.61	Residual Pressure Failed	1	20
J-250	True	False	1,500.00	1,186.27	1,500.00	1,186.27	Residual Pressure Failed	6	20
J-252	True	False	1,500.00	972.73	1,500.00	972.73	Residual Pressure Failed	-9	20
J-254	True	False	1,500.00	976.86	1,500.00	976.86	Residual Pressure Failed	-10	20
J-257	True	False	1,500.00	1,262.72	1,500.00	1,262.72	Residual Pressure and Zone Pressure Failed	13	20
J-258	True	False	1,500.00	784.80	1,500.00	784.80	Residual Pressure Failed	-23	20
J-259	True	False	1,500.00	1,140.60	1,500.00	1,140.60	Zone Pressure Failed	15	24
J-261	True	False	1,500.00	1,151.33	1,500.00	1,151.33	Residual Pressure Failed	1	20

Fire Flow Node FlexTable: Fire Flow Results Table

Label	Is Fire Flow Run Balanced?	Satisfies Fire Flow Constraints?	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Fire Flow Status	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Residual) (psi)
J-264	True	False	1,500.00	1,219.38	1,500.00	1,219.38	Residual Pressure Failed	12	20
J-265	True	False	1,500.00	1,203.61	1,500.00	1,203.61	Residual Pressure and Zone Pressure Failed	11	20
J-266	True	False	1,500.00	784.66	1,500.00	784.66	Residual Pressure Failed	-24	20
J-267	True	False	1,500.00	1,404.33	1,500.00	1,404.33	Residual Pressure and Zone Pressure Failed	18	20
J-272	True	False	1,500.00	869.79	1,629.63	999.42	Residual Pressure Failed	-11	20
J-273	True	False	1,500.00	990.94	1,673.13	1,164.07	Residual Pressure Failed	-7	20
J-280	True	False	1,500.00	975.28	1,500.00	975.28	Residual Pressure Failed	-11	20
J-283	True	False	1,500.00	786.87	1,500.00	786.87	Zone Pressure Failed	-11	21
J-284	True	False	1,500.00	870.21	1,500.00	870.21	Residual Pressure Failed	-10	20
J-285	True	False	1,500.00	1,342.71	1,500.00	1,342.71	Residual Pressure Failed	16	20
J-290	True	False	1,500.00	1,168.56	1,500.00	1,168.56	Residual Pressure Failed	8	20
J-291	True	False	1,500.00	1,215.87	1,500.00	1,215.87	Residual Pressure Failed	10	20
J-292	True	False	1,500.00	1,067.78	1,500.00	1,067.78	Residual Pressure Failed	-3	20
J-293	True	False	1,500.00	1,036.99	1,500.00	1,036.99	Residual Pressure Failed	-5	20
J-295	True	False	1,500.00	600.24	1,716.63	816.87	Residual Pressure Failed	-42	20
J-298	True	False	1,500.00	952.66	1,601.88	1,054.54	Residual Pressure Failed	-12	20
J-302	True	False	1,500.00	1,365.05	1,683.63	1,548.68	Residual Pressure Failed	16	20
J-303	True	False	1,500.00	1,417.50	1,500.00	1,417.50	Residual Pressure Failed	18	20
J-306	True	False	1,500.00	825.12	1,575.63	900.75	Residual Pressure Failed	-20	20
J-308	True	False	1,500.00	1,358.05	1,500.00	1,358.05	Residual Pressure Failed	15	20
J-312	True	False	1,500.00	408.19	1,500.00	408.19	Residual Pressure Failed	-117	20
J-313	True	False	1,500.00	801.67	1,500.00	801.67	Zone Pressure Failed	-11	21
J-321	True	False	1,500.00	1,496.42	1,500.00	1,496.42	Zone Pressure Failed	25	25
J-322	True	False	1,500.00	903.45	1,500.00	903.45	Residual Pressure Failed	-13	20
J-325	True	False	1,500.00	1,105.52	1,500.00	1,105.52	Zone Pressure Failed	12	22
J-326	True	False	1,500.00	416.43	1,763.13	679.55	Residual Pressure Failed	-76	20
J-328	True	False	1,500.00	912.00	1,500.00	912.00	Residual Pressure Failed	-17	20
J-329	True	False	1,500.00	1,460.85	1,500.00	1,460.85	Zone Pressure Failed	23	23

Fire Flow Node FlexTable: Fire Flow Results Table

Label	Is Fire Flow Run Balanced?	Satisfies Fire Flow Constraints?	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Fire Flow Status	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Residual) (psi)
J-330	True	False	1,500.00	1,184.21	1,500.00	1,184.21	Residual Pressure and Zone Pressure Failed	10	20
J-332	True	False	1,500.00	1,158.23	1,500.00	1,158.23	Residual Pressure Failed	9	20
J-333	True	False	1,500.00	1,288.01	1,500.00	1,288.01	Residual Pressure Failed	14	20
J-339	True	False	1,500.00	1,102.54	1,500.00	1,102.54	Residual Pressure Failed	-1	20
J-347	True	False	1,500.00	903.17	1,500.00	903.17	Residual Pressure Failed	-25	20
J-350	True	False	1,500.00	1,043.50	1,500.00	1,043.50	Residual Pressure Failed	0	20
J-354	True	False	1,500.00	958.99	1,500.00	958.99	Residual Pressure Failed	-13	20
J-355	True	False	1,500.00	817.27	1,733.13	1,050.40	Residual Pressure Failed	-24	20
J-358	True	False	1,500.00	673.27	1,500.00	673.27	Residual Pressure Failed	-71	20
J-368	True	False	1,500.00	1,078.93	1,500.00	1,078.93	Residual Pressure Failed	-1	20
J-372	True	False	1,500.00	1,206.54	1,500.00	1,206.54	Residual Pressure and Zone Pressure Failed	12	20
J-373	True	False	1,500.00	1,160.68	1,500.00	1,160.68	Residual Pressure Failed	11	20
J-390	True	False	1,500.00	1,487.27	1,500.00	1,487.27	Zone Pressure Failed	22	22
J-391	True	False	1,500.00	1,193.44	1,500.00	1,193.44	Residual Pressure and Zone Pressure Failed	12	20
J-392	True	False	1,500.00	1,140.29	1,500.00	1,140.29	Residual Pressure Failed	10	20
J-400	True	False	1,500.00	1,102.55	1,500.00	1,102.55	Residual Pressure and Zone Pressure Failed	-5	20
J-401	True	False	1,500.00	1,093.49	1,500.00	1,093.49	Residual Pressure Failed	-6	20
J-403	True	False	1,500.00	1,036.41	1,500.00	1,036.41	Residual Pressure and Zone Pressure Failed	6	20
J-408	True	False	1,500.00	1,431.01	1,500.00	1,431.01	Residual Pressure and Zone Pressure Failed	18	20
J-409	True	False	1,500.00	1,433.21	1,500.00	1,433.21	Residual Pressure and Zone Pressure Failed	18	20
J-413	True	False	1,500.00	1,436.17	1,500.00	1,436.17	Residual Pressure and Zone Pressure Failed	18	20
J-414	True	False	1,500.00	1,433.09	1,500.00	1,433.09	Residual Pressure and Zone Pressure Failed	18	20
J-426	True	False	1,500.00	1,497.10	1,500.00	1,497.10	Residual Pressure and Zone Pressure Failed	20	20
J-427	True	False	1,500.00	1,452.05	1,500.00	1,452.05	Residual Pressure Failed	19	20

Fire Flow Node FlexTable: Fire Flow Results Table

Label	Is Fire Flow Run Balanced?	Satisfies Fire Flow Constraints?	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Fire Flow Status	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Residual) (psi)
J-434	True	False	1,500.00	1,322.26	1,500.00	1,322.26	Residual Pressure and Zone Pressure Failed	13	20
J-435	True	False	1,500.00	1,286.51	1,500.00	1,286.51	Residual Pressure Failed	12	20
J-436	True	False	1,500.00	1,453.79	1,500.00	1,453.79	Residual Pressure and Zone Pressure Failed	19	20
J-437	True	False	1,500.00	1,497.01	1,500.00	1,407.01	Residual Pressure Failed	17	20
J-441	True	False	1,500.00	1,339.51	1,500.00	1,339.51	Residual Pressure Failed	16	20
J-451	True	False	1,500.00	761.18	1,500.00	761.18	Residual Pressure and Zone Pressure Failed	-11	20
J-452	True	False	1,500.00	755.38	1,500.00	755.38	Residual Pressure and Zone Pressure Failed	-11	20
J-454	True	False	1,500.00	756.11	1,500.00	756.11	Residual Pressure and Zone Pressure Failed	-11	20
J-457	True	False	1,500.00	1,445.99	1,500.00	1,445.99	Residual Pressure Failed	19	20
J-461	True	False	1,500.00	1,458.23	1,500.00	1,458.23	Residual Pressure Failed	19	20
J-470	True	False	1,500.00	1,365.87	1,500.00	1,365.87	Zone Pressure Failed	19	22
J-485	True	False	1,500.00	1,151.80	1,500.00	1,151.80	Zone Pressure Failed	14	22
J-486	True	False	1,500.00	1,173.25	1,500.00	1,173.25	Zone Pressure Failed	15	22
J-487	True	False	1,500.00	1,435.12	1,500.00	1,435.12	Residual Pressure and Zone Pressure Failed	18	20
J-488	True	False	1,500.00	1,429.97	1,500.00	1,429.97	Residual Pressure and Zone Pressure Failed	18	20
J-492	True	False	1,500.00	1,313.61	1,500.00	1,313.61	Zone Pressure Failed	18	22
J-498	True	False	1,500.00	1,352.49	1,613.13	1,465.62	Residual Pressure Failed	15	20
J-499	True	False	1,500.00	1,362.01	1,500.00	1,362.01	Residual Pressure Failed	15	20
J-500	True	False	1,500.00	1,432.23	1,500.00	1,432.23	Residual Pressure Failed	18	20
J-502	True	False	1,500.00	743.67	2,007.63	1,251.30	Residual Pressure Failed	-11	20
J-504	True	False	1,500.00	782.14	1,500.00	782.14	Residual Pressure and Zone Pressure Failed	-7	20
J-505	True	False	1,500.00	889.80	1,500.00	889.80	Zone Pressure Failed	1	21
J-506	True	False	1,500.00	1,324.43	1,538.13	1,362.57	Zone Pressure Failed	17	21
J-507	True	False	1,500.00	1,344.13	1,500.00	1,344.13	Zone Pressure Failed	19	22
J-518	True	False	1,500.00	1,270.06	1,500.00	1,270.06	Residual Pressure Failed	14	20

Fire Flow Node FlexTable: Fire Flow Results Table

Label	Is Fire Flow Run Balanced?	Satisfies Fire Flow Constraints?	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Fire Flow Status	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Residual) (psi)
J-519	True	False	1,500.00	1,462.88	1,500.00	1,462.88	Zone Pressure Failed	21	22
J-522	True	False	1,500.00	1,387.89	1,500.00	1,387.89	Residual Pressure and Zone Pressure Failed	16	20
J-525	True	False	1,500.00	1,223.62	1,500.00	1,223.62	Residual Pressure and Zone Pressure Failed	13	20
J-526	True	False	1,500.00	1,198.41	1,500.00	1,198.41	Residual Pressure Failed	12	20
J-528	True	False	1,500.00	1,417.03	1,500.00	1,417.03	Zone Pressure Failed	21	22
J-535	True	False	1,500.00	1,219.02	1,500.00	1,219.02	Residual Pressure and Zone Pressure Failed	13	20
J-536	True	False	1,500.00	1,237.76	1,500.00	1,237.76	Residual Pressure and Zone Pressure Failed	14	20
J-538	True	False	1,500.00	763.54	1,500.00	763.54	Zone Pressure Failed	-10	20
J-539	True	False	1,500.00	1,398.86	1,703.13	1,601.99	Residual Pressure Failed	18	20
J-541	True	False	1,500.00	1,463.63	1,500.00	1,463.63	Zone Pressure Failed	22	23
J-543	True	False	1,500.00	1,195.06	1,500.00	1,195.06	Residual Pressure and Zone Pressure Failed	12	20
J-546	True	False	1,500.00	1,181.65	1,500.00	1,181.65	Zone Pressure Failed	15	22
J-547	True	False	1,500.00	1,129.64	1,733.13	1,362.77	Zone Pressure Failed	13	22
J-548	True	False	1,500.00	744.74	1,500.00	744.74	Residual Pressure Failed	-13	20
J-549	True	False	1,500.00	756.14	1,500.00	756.14	Residual Pressure and Zone Pressure Failed	-11	20
J-551	True	False	1,500.00	1,461.54	1,500.00	1,461.54	Zone Pressure Failed	21	22
J-552	True	False	1,500.00	1,438.21	1,587.63	1,525.84	Zone Pressure Failed	21	22
J-553	True	False	1,500.00	1,091.31	1,500.00	1,091.31	Zone Pressure Failed	11	22
J-554	True	False	1,500.00	1,078.50	1,500.00	1,078.50	Zone Pressure Failed	11	22
J-560	True	False	1,500.00	1,436.90	1,500.00	1,436.90	Residual Pressure and Zone Pressure Failed	18	20
J-567	True	False	1,500.00	1,054.25	1,500.00	1,054.25	Zone Pressure Failed	9	21
J-568	True	False	1,500.00	1,010.41	1,500.00	1,010.41	Zone Pressure Failed	8	21
J-569	True	False	1,500.00	1,314.47	1,500.00	1,314.47	Zone Pressure Failed	18	22
J-571	True	False	1,500.00	765.85	1,500.00	765.85	Residual Pressure and Zone Pressure Failed	-10	20

Fire Flow Node FlexTable: Fire Flow Results Table

Label	Is Fire Flow Run Balanced?	Satisfies Fire Flow Constraints?	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Fire Flow Status	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Residual) (psi)
J-572	True	False	1,500.00	763.41	1,500.00	763.41	Residual Pressure and Zone Pressure Failed	-10	20
J-577	True	False	1,500.00	1,018.50	1,500.00	1,018.50	Residual Pressure and Zone Pressure Failed	5	20
J-578	True	False	1,500.00	1,137.62	1,500.00	1,137.62	Zone Pressure Failed	13	22
J-581	True	False	1,500.00	775.31	1,500.00	775.31	Residual Pressure and Zone Pressure Failed	-9	20
J-582	True	False	1,500.00	765.05	1,500.00	765.05	Residual Pressure and Zone Pressure Failed	-10	20
J-586	True	False	1,500.00	1,387.24	1,500.00	1,387.24	Residual Pressure Failed	17	20
J-588	True	False	1,500.00	841.01	1,500.00	841.01	Residual Pressure Failed	-9	20
J-589	True	False	1,500.00	770.36	1,500.00	770.36	Residual Pressure and Zone Pressure Failed	-8	20
J-590	True	False	1,500.00	757.69	1,500.00	757.69	Residual Pressure and Zone Pressure Failed	-11	20
J-593	True	False	1,500.00	1,161.68	1,500.00	1,161.68	Zone Pressure Failed	14	22
J-597	True	False	1,500.00	1,396.79	1,652.13	1,458.92	Residual Pressure Failed	15	20
J-598	True	False	1,500.00	751.58	1,500.00	751.58	Residual Pressure and Zone Pressure Failed	-12	20
J-599	True	False	1,500.00	634.34	1,500.00	634.34	Residual Pressure Failed	-31	20
J-602	True	False	1,500.00	1,328.86	1,500.00	1,328.86	Zone Pressure Failed	19	22
J-603	True	False	1,500.00	1,233.31	1,500.00	1,233.31	Zone Pressure Failed	17	22
J-604	True	False	1,500.00	1,061.33	1,500.00	1,061.33	Residual Pressure Failed	6	20
J-605	True	False	1,500.00	1,172.66	1,500.00	1,172.66	Zone Pressure Failed	14	21
J-611	True	False	1,500.00	1,453.05	1,542.63	1,495.68	Zone Pressure Failed	20	21
J-615	True	False	1,500.00	1,291.39	1,500.00	1,291.39	Zone Pressure Failed	19	23
J-616	True	False	1,500.00	585.28	1,572.63	657.91	Residual Pressure Failed	-54	20
J-618	True	False	1,500.00	757.20	1,500.00	757.20	Residual Pressure and Zone Pressure Failed	-11	20
J-619	True	False	1,500.00	764.15	1,500.00	764.15	Residual Pressure and Zone Pressure Failed	-10	20
J-625	True	False	1,500.00	1,394.96	1,500.00	1,394.96	Residual Pressure Failed	18	20
J-626	True	False	1,500.00	1,274.35	1,500.00	1,274.35	Residual Pressure and Zone Pressure Failed	14	20

Fire Flow Node FlexTable: Fire Flow Results Table

Label	Is Fire Flow Run Balanced?	Satisfies Fire Flow Constraints?	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Fire Flow Status	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Residual) (psi)
J-627	True	False	1,500.00	687.10	1,500.00	687.10	Residual Pressure Failed	-21	20
J-628	True	False	1,500.00	1,249.77	1,541.13	1,290.90	Residual Pressure and Zone Pressure Failed	14	20
J-632	True	False	1,500.00	1,451.22	1,500.00	1,451.22	Zone Pressure Failed	20	21
J-633	True	False	1,500.00	1,409.92	1,578.63	1,488.55	Residual Pressure Failed	17	20
J-634	True	False	1,500.00	1,314.01	1,500.00	1,314.01	Zone Pressure Failed	18	22
J-638	True	False	1,500.00	1,194.38	1,578.63	1,273.01	Residual Pressure Failed	6	20
J-642	True	False	1,500.00	1,025.22	1,541.13	1,066.35	Residual Pressure and Zone Pressure Failed	6	20
J-648	True	False	1,500.00	1,347.97	1,500.00	1,347.97	Zone Pressure Failed	22	25
J-649	True	False	1,500.00	1,313.20	1,500.00	1,313.20	Zone Pressure Failed	18	22
J-653	True	False	1,500.00	1,335.77	1,500.00	1,335.77	Residual Pressure and Zone Pressure Failed	15	20
J-654	True	False	1,500.00	1,215.09	1,500.00	1,215.09	Zone Pressure Failed	16	22
J-655	True	False	1,500.00	1,031.34	1,500.00	1,031.34	Residual Pressure and Zone Pressure Failed	6	20
J-656	True	False	1,500.00	1,036.76	1,500.00	1,036.76	Residual Pressure and Zone Pressure Failed	6	20
J-657	True	False	1,500.00	1,040.45	1,685.13	1,225.58	Residual Pressure and Zone Pressure Failed	7	20
J-658	True	False	1,500.00	1,034.27	1,500.00	1,034.27	Residual Pressure and Zone Pressure Failed	6	20
J-659	True	False	1,500.00	1,035.26	1,500.00	1,035.26	Residual Pressure and Zone Pressure Failed	6	20
J-660	True	False	1,500.00	1,034.51	1,500.00	1,034.51	Residual Pressure and Zone Pressure Failed	6	20
J-661	True	False	1,500.00	1,037.85	1,500.00	1,037.85	Residual Pressure and Zone Pressure Failed	6	20
J-662	True	False	1,500.00	1,033.59	1,500.00	1,033.59	Residual Pressure and Zone Pressure Failed	6	20
J-663	True	False	1,500.00	1,046.61	1,500.00	1,046.61	Residual Pressure and Zone Pressure Failed	7	20
J-664	True	False	1,500.00	1,168.38	1,500.00	1,168.38	Zone Pressure Failed	13	21
J-665	True	False	1,500.00	937.75	1,500.00	937.75	Residual Pressure Failed	0	20

Fire Flow Node FlexTable: Fire Flow Results Table

Label	Is Fire Flow Run Balanced?	Satisfies Fire Flow Constraints?	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Fire Flow Status	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Residual) (psi)
J-666	True	False	1,500.00	1,040.77	1,500.00	1,040.77	Residual Pressure and Zone Pressure Failed	6	20
J-667	True	False	1,500.00	1,001.03	1,500.00	1,001.03	Residual Pressure and Zone Pressure Failed	4	20
J-668	True	False	1,500.00	941.99	1,500.00	941.99	Residual Pressure Failed	0	20
J-669	True	False	1,500.00	969.33	1,500.00	969.33	Residual Pressure and Zone Pressure Failed	2	20
J-670	True	False	1,500.00	828.33	1,646.13	974.46	Residual Pressure Failed	-8	20
J-671	True	False	1,500.00	1,166.31	1,500.00	1,166.31	Zone Pressure Failed	13	21
J-672	True	False	1,500.00	1,043.47	1,500.00	1,043.47	Residual Pressure and Zone Pressure Failed	7	20
J-673	True	False	1,500.00	1,270.13	1,500.00	1,270.13	Residual Pressure Failed	14	20
J-674	True	False	1,500.00	1,277.32	1,500.00	1,277.32	Residual Pressure Failed	14	20
J-675	True	False	1,500.00	1,306.33	1,523.13	1,329.46	Residual Pressure Failed	15	20
J-677	True	False	1,500.00	1,050.91	1,500.00	1,050.91	Residual Pressure Failed	0	20
J-689	True	False	1,500.00	1,418.18	1,500.00	1,418.18	Residual Pressure Failed	18	20
J-690	True	False	1,500.00	1,400.14	1,500.00	1,400.14	Residual Pressure Failed	17	20
J-750	True	False	1,500.00	1,483.08	1,500.00	1,483.08	Residual Pressure Failed	20	20
J-764	True	False	1,500.00	1,495.91	1,500.00	1,495.91	Residual Pressure Failed	20	20
J-770	True	False	1,500.00	1,278.80	1,500.00	1,278.80	Residual Pressure Failed	13	20
J-771	True	False	1,500.00	1,137.05	1,500.00	1,137.05	Residual Pressure Failed	5	20
J-772	True	False	1,500.00	1,119.06	1,500.00	1,119.06	Residual Pressure and Zone Pressure Failed	4	20
J-773	True	False	1,500.00	1,130.23	1,500.00	1,130.23	Residual Pressure and Zone Pressure Failed	5	20
J-775	True	False	1,500.00	1,188.95	1,500.00	1,188.95	Residual Pressure and Zone Pressure Failed	8	20
J-776	True	False	1,500.00	1,168.47	1,500.00	1,168.47	Residual Pressure and Zone Pressure Failed	7	20
J-777	True	False	1,500.00	1,158.46	1,500.00	1,158.46	Residual Pressure and Zone Pressure Failed	6	20
J-778	True	False	1,500.00	1,142.72	1,500.00	1,142.72	Residual Pressure and Zone Pressure Failed	6	20

Fire Flow Node FlexTable: Fire Flow Results Table

Label	Is Fire Flow Run Balanced?	Satisfies Fire Flow Constraints?	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Fire Flow Status	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Residual) (psi)
J-779	True	False	1,500.00	1,145.64	1,500.00	1,145.64	Residual Pressure and Zone Pressure Failed	6	20
J-780	True	False	1,500.00	1,160.63	1,500.00	1,160.63	Residual Pressure and Zone Pressure Failed	7	20
J-781	True	False	1,500.00	1,161.22	1,500.00	1,161.22	Residual Pressure and Zone Pressure Failed	7	20
J-782	True	False	1,500.00	1,097.26	1,500.00	1,097.26	Residual Pressure Failed	3	20
J-783	True	False	1,500.00	1,083.23	1,568.13	1,151.36	Residual Pressure Failed	2	20
J-791	True	False	1,500.00	988.36	1,500.00	988.36	Residual Pressure Failed	-11	20
J-799	True	False	1,500.00	1,161.72	1,650.63	1,312.35	Residual Pressure and Zone Pressure Failed	12	20
J-800	True	False	1,500.00	1,026.34	1,568.13	1,094.47	Residual Pressure Failed	1	20
J-802	True	False	1,500.00	1,246.95	1,530.63	1,277.58	Residual Pressure Failed	9	20
J-804	True	False	1,500.00	1,494.02	1,697.88	1,691.90	Residual Pressure Failed	20	20
J-805	True	False	1,500.00	1,282.02	1,527.63	1,309.65	Residual Pressure Failed	14	20
J-806	True	False	1,500.00	1,038.65	1,511.13	1,049.78	Residual Pressure Failed	2	20
J-807	True	False	1,500.00	1,097.15	1,512.63	1,109.78	Residual Pressure and Zone Pressure Failed	9	20
J-808	True	False	1,500.00	624.67	1,706.88	831.55	Residual Pressure Failed	-37	20
J-809	True	False	1,500.00	979.09	1,650.63	1,129.72	Residual Pressure Failed	-8	20
J-810	True	False	1,500.00	979.05	1,500.00	979.05	Residual Pressure Failed	-8	20
J-811	True	False	1,500.00	1,014.14	1,623.63	1,137.77	Residual Pressure Failed	-5	20
J-822	True	False	1,500.00	1,085.23	1,646.13	1,231.36	Residual Pressure Failed	5	20
J-1049	True	False	1,500.00	1,090.60	1,500.00	1,090.60	Zone Pressure Failed	8	21
J-1053	True	False	1,500.00	1,193.60	1,500.00	1,193.60	Residual Pressure and Zone Pressure Failed	13	20
J-1058	True	False	1,500.00	1,059.77	1,500.00	1,059.77	Residual Pressure Failed	7	20

Scenario: 2023
Low Pressure Analysis
Junction Table
Current Time: 19.00 hours @Peak Flow

ID	Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)	Pressure Head (ft)
40	J-1	100.00	0.00	204.53	45	104.53
41	J-2	100.00	0.00	204.53	45	104.53
55	J-3	100.00	0.00	206.78	46	106.78
56	J-4	100.00	0.00	206.87	46	106.87
58	J-5	100.00	0.00	204.53	45	104.53
59	J-6	100.00	0.00	204.53	45	104.53
61	J-7	100.00	0.00	204.50	45	104.50
62	J-8	100.00	78.63	204.49	45	104.49
64	J-9	100.00	0.00	219.92	52	119.92
67	J-10	100.00	0.00	204.53	45	104.53
69	J-11	100.00	0.00	204.53	45	104.53
71	J-12	100.00	0.00	204.54	45	104.54
74	J-13	100.00	0.00	208.17	47	108.17
76	J-14	100.00	0.00	195.91	41	95.91
77	J-15	100.00	0.00	195.93	42	95.93
79	J-16	100.00	0.00	204.55	45	104.55
81	J-17	100.00	0.00	204.66	45	104.66
82	J-18	100.00	0.00	204.60	45	104.60
84	J-19	100.00	41.13	198.77	43	98.77
85	J-20	100.00	0.00	197.61	42	97.61
89	J-21	100.00	0.00	207.71	47	107.71
91	J-22	100.00	0.00	204.53	45	104.53
93	J-23	100.00	0.00	210.14	48	110.14
94	J-24	100.00	0.00	212.25	49	112.25
96	J-25	100.00	0.00	205.05	45	105.05
97	J-26	100.00	0.00	204.32	45	104.32
99	J-27	100.00	0.00	204.32	45	104.32
100	J-28	100.00	0.00	206.12	46	106.12
105	J-29	100.00	0.00	208.90	47	108.90
108	J-30	100.00	0.00	207.77	47	107.77
109	J-31	100.00	0.00	207.73	47	107.73
111	J-32	100.00	0.00	206.64	46	106.64
113	J-33	100.00	0.00	204.38	45	104.38
114	J-34	100.00	0.00	204.38	45	104.38
116	J-35	100.00	0.00	207.56	47	107.56
117	J-36	100.00	0.00	208.88	47	108.88
119	J-37	100.00	0.00	220.09	52	120.09
120	J-38	100.00	0.00	217.06	51	117.06
122	J-39	100.00	0.00	193.30	40	93.30
123	J-40	100.00	0.00	193.41	40	93.41
125	J-41	100.00	0.00	213.43	49	113.43
126	J-42	100.00	0.00	214.34	49	114.34
128	J-43	100.00	0.00	217.08	51	117.08
129	J-44	100.00	0.00	213.93	49	113.93
131	J-45	100.00	39.63	202.99	45	102.99
132	J-46	100.00	0.00	201.13	44	101.13
137	J-47	100.00	0.00	171.82	31	71.82
138	J-48	100.00	0.00	220.22	52	120.22
146	J-49	100.00	146.13	203.65	45	103.65
147	J-50	100.00	0.00	204.53	45	104.53
153	J-51	100.00	0.00	220.12	52	120.12
161	J-52	100.00	0.00	205.54	46	105.54
162	J-53	100.00	0.00	205.54	46	105.54
164	J-54	100.00	0.00	207.07	46	107.07
165	J-55	100.00	0.00	207.07	46	107.07
173	J-56	100.00	0.00	194.51	41	94.51
178	J-57	100.00	0.00	208.81	47	108.81
179	J-58	100.00	59.88	208.79	47	108.79
181	J-59	100.00	0.00	207.50	47	107.50
182	J-60	100.00	0.00	207.50	47	107.50
184	J-61	100.00	0.00	208.41	47	108.41
185	J-62	100.00	0.00	208.41	47	108.41
187	J-63	100.00	0.00	205.83	46	105.83
188	J-64	100.00	0.00	205.74	46	105.74
190	J-65	100.00	0.00	205.95	46	105.95
191	J-66	100.00	0.00	205.95	46	105.95
196	J-67	100.00	0.00	207.73	47	107.73
197	J-68	100.00	0.00	207.73	47	107.73
206	J-69	100.00	0.00	201.80	44	101.80
209	J-70	100.00	0.00	201.50	44	101.50
211	J-71	100.00	0.00	206.85	46	106.85
212	J-72	100.00	0.00	206.85	46	106.85
214	J-73	100.00	0.00	205.34	46	105.34
215	J-74	100.00	0.00	205.34	46	105.34
217	J-75	100.00	0.00	204.39	45	104.39
218	J-76	100.00	0.00	204.39	45	104.39
221	J-77	100.00	0.00	207.73	47	107.73
223	J-78	100.00	0.00	207.73	47	107.73
225	J-79	100.00	0.00	192.10	40	92.10
226	J-80	100.00	0.00	192.10	40	92.10
230	J-81	100.00	0.00	204.31	45	104.31
231	J-82	100.00	0.00	204.31	45	104.31
233	J-83	100.00	0.00	205.72	46	105.72
234	J-84	100.00	0.00	205.72	46	105.72
236	J-85	100.00	0.00	196.02	42	96.02

FlexTable: Junction Table

Current Time: 19.00 hours

ID	Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)	Pressure Head (ft)
237	J-86	100.00	0.00	196.02	42	96.02
239	J-87	100.00	0.00	207.89	47	107.89
240	J-88	100.00	0.00	207.89	47	107.89
242	J-89	100.00	0.00	208.33	47	108.33
243	J-90	100.00	0.00	208.72	47	108.72
245	J-91	100.00	0.00	205.76	46	105.76
246	J-92	100.00	0.00	205.76	46	105.76
248	J-93	100.00	0.00	196.65	42	96.65
249	J-94	100.00	0.00	196.65	42	96.65
251	J-95	100.00	0.00	205.80	46	105.80
252	J-96	100.00	0.00	205.80	46	105.80
254	J-97	100.00	0.00	192.76	40	92.76
255	J-98	100.00	0.00	192.76	40	92.76
258	J-99	100.00	0.00	216.36	50	116.36
260	J-100	100.00	0.00	204.36	45	104.36
261	J-101	100.00	0.00	204.36	45	104.36
263	J-102	100.00	0.00	193.08	40	93.08
264	J-103	100.00	0.00	193.08	40	93.08
266	J-104	100.00	0.00	190.75	39	90.75
267	J-105	100.00	216.63	190.30	39	90.30
269	J-106	100.00	0.00	198.66	43	98.66
270	J-107	100.00	95.88	198.66	43	98.66
272	J-108	100.00	0.00	191.95	40	91.95
273	J-109	100.00	0.00	191.95	40	91.95
275	J-110	100.00	0.00	200.07	43	100.07
276	J-111	100.00	95.88	200.07	43	100.07
278	J-112	100.00	0.00	199.39	43	99.39
279	J-113	100.00	0.00	199.39	43	99.39
281	J-114	100.00	0.00	194.51	41	94.51
283	J-115	100.00	0.00	204.53	45	104.53
284	J-116	100.00	0.00	204.53	45	104.53
286	J-117	100.00	0.00	198.55	43	98.55
287	J-118	100.00	0.00	198.55	43	98.55
289	J-119	100.00	0.00	199.51	43	99.51
290	J-120	100.00	0.00	199.51	43	99.51
292	J-121	100.00	0.00	198.26	43	98.26
293	J-122	100.00	0.00	198.26	43	98.26
295	J-123	100.00	0.00	205.95	46	105.95
297	J-124	100.00	0.00	195.93	42	95.93
298	J-125	100.00	0.00	195.93	42	95.93
300	J-126	100.00	0.00	209.61	47	109.61
301	J-127	100.00	0.00	209.61	47	109.61
303	J-128	100.00	0.00	204.53	45	104.53
305	J-129	100.00	0.00	207.73	47	107.73
306	J-130	100.00	0.00	207.73	47	107.73
308	J-131	100.00	0.00	191.31	40	91.31
309	J-132	100.00	206.88	183.31	36	83.31
311	J-133	100.00	0.00	204.36	45	104.36
312	J-134	100.00	0.00	204.36	45	104.36
314	J-135	100.00	0.00	191.99	40	91.99
315	J-136	100.00	0.00	191.31	40	91.31
317	J-137	100.00	86.88	206.68	46	106.68
319	J-138	100.00	0.00	197.11	42	97.11
320	J-139	100.00	0.00	197.11	42	97.11
322	J-140	100.00	0.00	207.50	47	107.50
324	J-141	100.00	0.00	208.82	47	108.82
325	J-142	100.00	0.00	208.72	47	108.72
327	J-143	100.00	0.00	190.75	39	90.75
328	J-144	100.00	0.00	190.75	39	90.75
331	J-145	100.00	0.00	205.64	46	105.64
334	J-146	100.00	233.13	208.09	47	108.09
336	J-147	100.00	0.00	205.80	46	105.80
337	J-148	100.00	0.00	205.76	46	105.76
339	J-149	100.00	0.00	206.73	46	106.73
340	J-150	100.00	0.00	206.57	46	106.57
342	J-151	100.00	0.00	207.73	47	107.73
343	J-152	100.00	0.00	207.73	47	107.73
345	J-153	100.00	0.00	204.14	45	104.14
346	J-154	100.00	0.00	204.14	45	104.14
348	J-155	100.00	0.00	205.05	45	105.05
349	J-156	100.00	0.00	205.05	45	105.05
351	J-157	100.00	0.00	207.81	47	107.81
352	J-158	100.00	0.00	207.82	47	107.82
354	J-159	100.00	0.00	206.50	46	106.50
355	J-160	100.00	0.00	206.45	46	106.45
357	J-161	100.00	0.00	205.49	46	105.49
358	J-162	100.00	0.00	205.54	46	105.54
360	J-163	100.00	0.00	198.56	43	98.56
361	J-164	100.00	0.00	198.56	43	98.56
363	J-165	100.00	0.00	204.25	45	104.25
364	J-166	100.00	86.88	204.08	45	104.08
366	J-167	100.00	0.00	204.38	45	104.38
367	J-168	100.00	0.00	204.38	45	104.38
369	J-169	100.00	0.00	206.00	46	106.00
370	J-170	100.00	0.00	206.06	46	106.06

FlexTable: Junction Table

Current Time: 19.00 hours

ID	Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)	Pressure Head (ft)
372	J-171	100.00	0.00	204.62	45	104.62
373	J-172	100.00	0.00	204.51	45	104.51
375	J-173	100.00	0.00	211.73	48	111.73
376	J-174	100.00	0.00	208.98	47	108.98
378	J-175	100.00	33.63	204.72	45	104.72
379	J-176	100.00	0.00	204.96	45	104.96
381	J-177	100.00	0.00	204.63	45	104.63
382	J-178	100.00	0.00	204.74	45	104.74
384	J-179	100.00	0.00	207.05	46	107.05
387	J-180	100.00	0.00	205.73	46	105.73
388	J-181	100.00	102.63	205.76	46	105.76
390	J-182	100.00	0.00	197.48	42	97.48
391	J-183	100.00	194.13	196.02	42	96.02
393	J-184	100.00	0.00	207.33	46	107.33
394	J-185	100.00	0.00	206.76	46	106.76
396	J-186	100.00	0.00	213.00	49	113.00
397	J-187	100.00	0.00	213.00	49	113.00
399	J-188	100.00	0.00	204.32	45	104.32
400	J-189	100.00	0.00	204.33	45	104.33
402	J-190	100.00	0.00	205.62	46	105.62
403	J-191	100.00	0.00	205.62	46	105.62
405	J-192	100.00	0.00	205.74	46	105.74
406	J-193	100.00	0.00	205.95	46	105.95
408	J-194	100.00	0.00	210.75	48	110.75
409	J-195	100.00	0.00	210.75	48	110.75
411	J-196	100.00	0.00	209.88	48	109.88
412	J-197	100.00	0.00	209.88	48	109.88
414	J-198	100.00	0.00	196.76	42	96.76
415	J-199	100.00	0.00	196.77	42	96.77
417	J-200	100.00	0.00	196.84	42	96.84
418	J-201	100.00	0.00	196.84	42	96.84
420	J-202	100.00	0.00	204.36	45	104.36
421	J-203	100.00	0.00	204.37	45	104.37
423	J-204	100.00	0.00	209.69	47	109.69
424	J-205	100.00	0.00	208.21	47	108.21
426	J-206	100.00	0.00	204.38	45	104.38
427	J-207	100.00	0.00	204.49	45	104.49
429	J-208	100.00	0.00	204.35	45	104.35
430	J-209	100.00	0.00	204.25	45	104.25
432	J-210	100.00	0.00	208.94	47	108.94
433	J-211	100.00	0.00	208.94	47	108.94
435	J-212	100.00	0.00	206.30	46	106.30
436	J-213	100.00	0.00	206.40	46	106.40
438	J-214	100.00	0.00	196.10	42	96.10
439	J-215	100.00	0.00	195.14	41	95.14
441	J-216	100.00	0.00	208.88	47	108.88
443	J-217	100.00	0.00	207.91	47	107.91
446	J-218	100.00	0.00	203.87	45	103.87
449	J-219	100.00	33.63	197.57	42	97.57
450	J-220	100.00	0.00	196.81	42	96.81
452	J-221	100.00	0.00	205.05	45	105.05
453	J-222	100.00	0.00	202.18	44	102.18
455	J-223	100.00	0.00	195.93	42	95.93
456	J-224	100.00	0.00	195.93	42	95.93
461	J-225	100.00	0.00	206.81	46	106.81
462	J-226	100.00	0.00	206.73	46	106.73
464	J-227	100.00	0.00	209.53	47	109.53
465	J-228	100.00	0.00	209.53	47	109.53
467	J-229	100.00	0.00	204.53	45	104.53
469	J-230	100.00	0.00	211.39	48	111.39
472	J-231	100.00	0.00	213.00	49	113.00
473	J-232	100.00	0.00	213.00	49	113.00
475	J-233	100.00	0.00	207.73	47	107.73
477	J-234	100.00	0.00	196.68	42	96.68
478	J-235	100.00	0.00	196.68	42	96.68
480	J-236	100.00	0.00	206.74	46	106.74
482	J-237	100.00	0.00	196.52	42	96.52
483	J-238	100.00	0.00	196.52	42	96.52
485	J-239	100.00	0.00	207.21	46	107.21
486	J-240	100.00	0.00	210.34	48	110.34
488	J-241	100.00	0.00	204.22	45	104.22
489	J-242	100.00	0.00	204.22	45	104.22
491	J-243	100.00	0.00	205.03	45	105.03
493	J-244	100.00	0.00	208.82	47	108.82
494	J-245	100.00	119.13	208.00	47	108.00
496	J-246	100.00	0.00	199.44	43	99.44
498	J-247	100.00	0.00	203.71	45	103.71
499	J-248	100.00	0.00	203.51	45	103.51
501	J-249	100.00	0.00	206.00	46	106.00
502	J-250	100.00	0.00	206.00	46	106.00
504	J-251	100.00	0.00	201.08	44	101.08
505	J-252	100.00	0.00	201.08	44	101.08
507	J-253	100.00	0.00	205.27	46	105.27
508	J-254	100.00	0.00	205.27	46	105.27
510	J-255	100.00	0.00	176.43	33	76.43

FlexTable: Junction Table

Current Time: 19.00 hours

ID	Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)	Pressure Head (ft)
511	J-256	100.00	0.00	186.43	37	86.43
513	J-257	100.00	0.00	195.93	42	95.93
514	J-258	100.00	0.00	195.93	42	95.93
517	J-259	100.00	0.00	197.46	42	97.46
519	J-260	100.00	0.00	217.00	51	117.00
520	J-261	100.00	0.00	217.00	51	117.00
522	J-262	100.00	0.00	205.57	46	105.57
523	J-263	100.00	0.00	206.62	46	106.62
525	J-264	100.00	0.00	196.69	42	96.69
526	J-265	100.00	0.00	196.59	42	96.59
528	J-266	100.00	0.00	196.02	42	96.02
529	J-267	100.00	0.00	196.02	42	96.02
531	J-268	100.00	0.00	198.23	43	98.23
532	J-269	100.00	0.00	197.44	42	97.44
534	J-270	100.00	0.00	207.27	46	107.27
535	J-271	100.00	0.00	210.94	48	110.94
537	J-272	100.00	129.63	196.93	42	96.93
539	J-273	100.00	173.13	205.44	46	105.44
540	J-274	100.00	0.00	206.82	46	106.82
542	J-275	100.00	0.00	205.74	46	105.74
543	J-276	100.00	0.00	205.74	46	105.74
545	J-277	100.00	0.00	201.10	44	101.10
546	J-278	100.00	0.00	201.92	44	101.92
548	J-279	100.00	0.00	204.55	45	104.55
549	J-280	100.00	0.00	204.55	45	104.55
551	J-281	100.00	0.00	204.39	45	104.39
552	J-282	100.00	0.00	204.30	45	104.30
554	J-283	100.00	0.00	193.75	41	93.75
555	J-284	100.00	0.00	195.14	41	95.14
557	J-285	100.00	0.00	196.83	42	96.83
558	J-286	100.00	0.00	196.91	42	96.91
560	J-287	100.00	0.00	214.18	49	114.18
561	J-288	100.00	0.00	216.36	50	116.36
563	J-289	100.00	0.00	204.38	45	104.38
565	J-290	100.00	0.00	198.56	43	98.56
566	J-291	100.00	0.00	198.55	43	98.55
568	J-292	100.00	0.00	206.57	46	106.57
569	J-293	100.00	0.00	206.40	46	106.40
571	J-294	100.00	0.00	195.65	41	95.65
573	J-295	100.00	216.63	192.19	40	92.19
574	J-296	100.00	0.00	197.01	42	97.01
576	J-297	100.00	0.00	205.48	46	105.48
577	J-298	100.00	101.88	204.41	45	104.41
579	J-299	100.00	0.00	207.11	46	107.11
580	J-300	100.00	0.00	208.01	47	108.01
582	J-301	100.00	0.00	205.55	46	105.55
583	J-302	100.00	183.63	205.19	46	105.19
585	J-303	100.00	0.00	198.61	43	98.61
586	J-304	100.00	0.00	198.52	43	98.52
588	J-305	100.00	0.00	203.12	45	103.12
589	J-306	100.00	75.63	201.57	44	101.57
591	J-307	100.00	0.00	204.38	45	104.38
592	J-308	100.00	0.00	204.37	45	104.37
594	J-309	100.00	0.00	204.87	45	104.87
595	J-310	100.00	0.00	205.31	46	105.31
597	J-311	100.00	0.00	221.66	53	121.66
599	J-312	100.00	0.00	190.75	39	90.75
600	J-313	100.00	0.00	193.81	41	93.81
602	J-314	100.00	0.00	208.30	47	108.30
604	J-315	100.00	0.00	204.34	45	104.34
605	J-316	100.00	0.00	204.33	45	104.33
607	J-317	100.00	0.00	204.36	45	104.36
608	J-318	100.00	0.00	204.36	45	104.36
610	J-319	100.00	0.00	203.42	45	103.42
611	J-320	100.00	0.00	204.45	45	104.45
613	J-321	100.00	0.00	198.51	43	98.51
614	J-322	100.00	0.00	198.55	43	98.55
616	J-323	100.00	41.13	212.22	49	112.22
617	J-324	100.00	0.00	185.33	37	85.33
619	J-325	100.00	0.00	192.59	40	92.59
620	J-326	100.00	263.13	186.48	37	86.48
622	J-327	100.00	116.13	205.49	46	105.49
623	J-328	100.00	0.00	204.63	45	104.63
625	J-329	100.00	0.00	196.02	42	96.02
626	J-330	100.00	0.00	197.18	42	97.18
628	J-331	100.00	0.00	201.30	44	101.30
629	J-332	100.00	0.00	197.86	42	97.86
631	J-333	100.00	0.00	197.71	42	97.71
632	J-334	100.00	0.00	201.83	44	101.83
634	J-335	100.00	0.00	204.65	45	104.65
636	J-336	100.00	0.00	205.57	46	105.57
639	J-338	100.00	0.00	196.84	42	96.84
641	J-339	100.00	0.00	212.46	49	112.46
644	J-340	100.00	108.63	207.07	46	107.07
645	J-341	100.00	0.00	211.08	48	111.08

FlexTable: Junction Table

Current Time: 19.00 hours

ID	Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)	Pressure Head (ft)
650	J-342	100.00	0.00	205.32	46	105.32
653	J-343	100.00	0.00	204.60	45	104.60
655	J-344	100.00	0.00	201.11	44	101.11
657	J-345	100.00	0.00	205.19	46	105.19
658	J-346	100.00	0.00	205.74	46	105.74
660	J-347	100.00	0.00	213.43	49	113.43
661	J-348	100.00	0.00	220.14	52	120.14
663	J-349	100.00	0.00	200.95	44	100.95
664	J-350	100.00	0.00	198.55	43	98.55
666	J-351	100.00	0.00	204.51	45	104.51
667	J-352	100.00	0.00	210.99	48	110.99
670	J-353	100.00	0.00	207.82	47	107.82
671	J-354	100.00	0.00	206.48	46	106.48
673	J-355	100.00	233.13	204.73	45	104.73
674	J-356	100.00	0.00	105.32	2	5.32
676	J-357	100.00	0.00	206.76	46	106.76
677	J-358	100.00	0.00	206.76	46	106.76
682	J-359	100.00	0.00	204.38	45	104.38
683	J-360	100.00	0.00	204.36	45	104.36
685	J-361	100.00	0.00	212.68	49	112.68
686	J-362	100.00	0.00	200.64	44	100.64
688	J-363	100.00	0.00	213.40	49	113.40
689	J-364	100.00	0.00	200.91	44	100.91
691	J-365	100.00	0.00	197.16	42	97.16
692	J-366	100.00	0.00	207.64	47	107.64
695	J-367	100.00	0.00	205.09	45	105.09
696	J-368	100.00	0.00	204.09	45	104.09
701	J-369	100.00	0.00	205.50	46	105.50
707	J-370	100.00	0.00	204.57	45	104.57
708	J-371	100.00	0.00	204.57	45	104.57
710	J-372	100.00	0.00	193.40	40	93.40
711	J-373	100.00	0.00	193.40	40	93.40
713	J-374	100.00	0.00	195.97	42	95.97
718	J-375	100.00	0.00	200.78	44	100.78
723	J-378	100.00	0.00	212.07	48	112.07
724	J-379	100.00	0.00	212.07	48	112.07
726	J-380	100.00	0.00	205.90	46	105.90
728	J-381	100.00	0.00	196.88	42	96.88
729	J-382	100.00	0.00	196.85	42	96.85
737	J-383	100.00	0.00	204.39	45	104.39
738	J-384	100.00	0.00	204.38	45	104.38
741	J-385	100.00	0.00	116.38	7	16.38
750	J-386	100.00	0.00	206.56	46	106.56
751	J-387	100.00	0.00	206.46	46	106.46
753	J-388	100.00	0.00	204.55	45	104.55
756	J-389	100.00	0.00	195.45	41	95.45
757	J-390	100.00	0.00	195.32	41	95.32
759	J-391	100.00	0.00	193.34	40	93.34
760	J-392	100.00	0.00	193.34	40	93.34
762	J-393	100.00	0.00	196.89	42	96.89
764	J-394	100.00	0.00	210.20	48	110.20
765	J-395	100.00	0.00	210.20	48	110.20
767	J-396	100.00	0.00	210.21	48	110.21
768	J-397	100.00	0.00	210.21	48	110.21
775	J-398	100.00	0.00	204.38	45	104.38
776	J-399	100.00	0.00	204.38	45	104.38
778	J-400	100.00	0.00	220.22	52	120.22
779	J-401	100.00	0.00	220.22	52	120.22
781	J-402	100.00	0.00	189.16	39	89.16
783	J-403	100.00	0.00	192.12	40	92.12
787	J-404	100.00	0.00	204.53	45	104.53
788	J-405	100.00	0.00	204.52	45	104.52
790	J-406	100.00	0.00	207.93	47	107.93
794	J-407	100.00	0.00	192.27	40	92.27
796	J-408	100.00	0.00	204.09	45	104.09
797	J-409	100.00	0.00	204.09	45	104.09
801	J-410	100.00	0.00	210.67	48	110.67
802	J-411	100.00	14.13	210.67	48	110.67
804	J-412	100.00	0.00	209.69	47	109.69
806	J-413	100.00	0.00	204.11	45	104.11
807	J-414	100.00	0.00	204.11	45	104.11
809	J-415	100.00	0.00	204.57	45	104.57
810	J-416	100.00	0.00	204.57	45	104.57
812	J-417	100.00	0.00	217.00	51	117.00
813	J-418	100.00	129.63	217.00	51	117.00
820	J-419	100.00	0.00	204.22	45	104.22
821	J-420	100.00	0.00	204.22	45	104.22
823	J-421	100.00	0.00	196.91	42	96.91
824	J-422	100.00	0.00	196.88	42	96.88
841	J-423	100.00	0.00	204.53	45	104.53
842	J-424	100.00	0.00	204.53	45	104.53
853	J-425	100.00	0.00	205.49	46	105.49
855	J-426	100.00	0.00	201.86	44	101.86
856	J-427	100.00	0.00	201.86	44	101.86
859	J-428	100.00	0.00	204.37	45	104.37

FlexTable: Junction Table

Current Time: 19.00 hours

ID	Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)	Pressure Head (ft)
861	J-429	100.00	0.00	201.15	44	101.15
862	J-430	100.00	0.00	201.15	44	101.15
864	J-431	100.00	0.00	201.62	44	101.62
865	J-432	100.00	0.00	201.62	44	101.62
868	J-433	100.00	0.00	204.22	45	104.22
870	J-434	100.00	0.00	204.22	45	104.22
871	J-435	100.00	0.00	204.22	45	104.22
873	J-436	100.00	0.00	204.22	45	104.22
874	J-437	100.00	0.00	204.22	45	104.22
877	J-438	100.00	0.00	204.53	45	104.53
879	J-439	100.00	0.00	204.57	45	104.57
880	J-440	100.00	0.00	204.57	45	104.57
882	J-441	100.00	0.00	196.65	42	96.65
884	J-442	100.00	0.00	208.82	47	108.82
888	J-443	100.00	0.00	217.00	51	117.00
889	J-444	100.00	0.00	217.00	51	117.00
891	J-445	100.00	0.00	201.43	44	101.43
892	J-446	100.00	0.00	201.36	44	101.36
894	J-447	100.00	0.00	210.21	48	110.21
895	J-448	100.00	0.00	210.22	48	110.22
897	J-449	100.00	0.00	210.19	48	110.19
898	J-450	100.00	0.00	210.18	48	110.18
903	J-451	100.00	0.00	188.45	38	88.45
904	J-452	100.00	0.00	188.45	38	88.45
909	J-454	100.00	0.00	188.43	38	88.43
911	J-455	100.00	0.00	207.61	47	107.61
912	J-456	100.00	0.00	207.61	47	107.61
916	J-457	100.00	0.00	196.65	42	96.65
918	J-458	100.00	0.00	204.38	45	104.38
920	J-459	100.00	0.00	204.32	45	104.32
921	J-460	100.00	0.00	204.32	45	104.32
923	J-461	100.00	0.00	196.74	42	96.74
925	J-462	100.00	0.00	204.32	45	104.32
927	J-463	100.00	0.00	200.94	44	100.94
928	J-464	100.00	71.13	200.94	44	100.94
930	J-465	100.00	71.13	201.07	44	101.07
933	J-467	100.00	0.00	204.61	45	104.61
934	J-468	100.00	0.00	204.63	45	104.63
936	J-469	100.00	0.00	103.80	2	3.80
939	J-470	100.00	0.00	194.48	41	94.48
944	J-471	100.00	0.00	198.29	43	98.29
945	J-472	100.00	146.13	198.29	43	98.29
947	J-473	100.00	0.00	204.38	45	104.38
948	J-474	100.00	0.00	204.39	45	104.39
951	J-475	100.00	0.00	207.37	46	107.37
953	J-476	100.00	0.00	207.39	46	107.39
956	J-477	100.00	0.00	204.54	45	104.54
957	J-478	100.00	0.00	204.54	45	104.54
959	J-479	100.00	0.00	207.40	46	107.40
960	J-480	100.00	0.00	207.33	46	107.33
962	J-481	100.00	0.00	198.40	43	98.40
963	J-482	100.00	0.00	198.87	43	98.87
965	J-483	100.00	0.00	204.64	45	104.64
966	J-484	100.00	0.00	204.54	45	104.54
968	J-485	100.00	0.00	192.75	40	92.75
969	J-486	100.00	0.00	192.96	40	92.96
971	J-487	100.00	0.00	206.46	46	106.46
972	J-488	100.00	0.00	206.48	46	106.48
974	J-489	100.00	0.00	209.12	47	109.12
977	J-490	100.00	0.00	205.12	45	105.12
978	J-491	100.00	0.00	205.14	45	105.14
980	J-492	100.00	0.00	194.35	41	94.35
986	J-494	100.00	0.00	204.53	45	104.53
987	J-495	100.00	0.00	204.53	45	104.53
989	J-496	100.00	0.00	205.09	45	105.09
992	J-497	100.00	0.00	108.30	4	8.30
994	J-498	100.00	113.13	206.38	46	106.38
995	J-499	100.00	0.00	206.41	46	106.41
998	J-500	100.00	0.00	206.45	46	106.45
1001	J-502	100.00	507.63	187.84	38	87.84
1003	J-503	100.00	0.00	206.60	46	106.60
1005	J-504	100.00	0.00	188.50	38	88.50
1006	J-505	100.00	0.00	190.00	39	90.00
1008	J-506	100.00	38.13	194.44	41	94.44
1009	J-507	100.00	0.00	194.65	41	94.65
1011	J-508	100.00	0.00	204.57	45	104.57
1012	J-509	100.00	0.00	204.57	45	104.57
1014	J-510	100.00	0.00	204.57	45	104.57
1015	J-511	100.00	0.00	204.56	45	104.56
1017	J-512	100.00	0.00	204.53	45	104.53
1019	J-513	100.00	0.00	204.39	45	104.39
1020	J-514	100.00	0.00	204.40	45	104.40
1024	J-515	100.00	0.00	205.44	46	105.44
1030	J-516	100.00	0.00	212.06	48	112.06
1031	J-517	100.00	0.00	212.69	49	112.69

FlexTable: Junction Table

Current Time: 19.00 hours

ID	Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)	Pressure Head (ft)
1033	J-518	100.00	0.00	195.25	41	95.25
1034	J-519	100.00	0.00	195.11	41	95.11
1036	J-520	100.00	0.00	207.43	46	107.43
1037	J-521	100.00	0.00	207.40	46	107.40
1040	J-522	100.00	0.00	204.09	45	104.09
1043	J-523	100.00	0.00	201.12	44	101.12
1047	J-525	100.00	0.00	193.02	40	93.02
1048	J-526	100.00	0.00	193.03	40	93.03
1054	J-527	100.00	0.00	207.42	46	107.42
1057	J-528	100.00	0.00	195.26	41	95.26
1061	J-529	100.00	72.63	205.14	45	105.14
1062	J-530	100.00	0.00	205.32	46	105.32
1064	J-531	100.00	0.00	204.34	45	104.34
1066	J-532	100.00	122.13	204.53	45	104.53
1067	J-533	100.00	0.00	204.58	45	104.58
1069	J-534	100.00	0.00	168.42	30	68.42
1074	J-535	100.00	0.00	193.04	40	93.04
1075	J-536	100.00	0.00	192.87	40	92.87
1078	J-537	100.00	0.00	204.14	45	104.14
1082	J-538	100.00	0.00	188.43	38	88.43
1084	J-539	100.00	203.13	196.58	42	96.58
1088	J-540	100.00	0.00	205.60	46	105.60
1091	J-541	100.00	0.00	195.99	42	95.99
1095	J-542	100.00	0.00	197.23	42	97.23
1097	J-543	100.00	0.00	193.25	40	93.25
1100	J-544	100.00	0.00	201.30	44	101.30
1101	J-545	100.00	0.00	201.29	44	101.29
1103	J-546	100.00	0.00	192.73	40	92.73
1104	J-547	100.00	233.13	192.15	40	92.15
1106	J-548	100.00	0.00	188.46	38	88.46
1107	J-549	100.00	0.00	188.45	38	88.45
1110	J-550	100.00	0.00	204.57	45	104.57
1112	J-551	100.00	0.00	195.60	41	95.60
1113	J-552	100.00	87.63	195.35	41	95.35
1116	J-553	100.00	0.00	191.96	40	91.96
1117	J-554	100.00	0.00	191.82	40	91.82
1122	J-557	100.00	0.00	205.54	46	105.54
1125	J-558	100.00	0.00	206.50	46	106.50
1126	J-559	100.00	0.00	205.94	46	105.94
1128	J-560	100.00	0.00	206.45	46	106.45
1135	J-561	100.00	0.00	199.15	43	99.15
1136	J-562	100.00	0.00	197.78	42	97.78
1138	J-563	100.00	0.00	198.05	42	98.05
1139	J-564	100.00	0.00	198.60	43	98.60
1141	J-565	100.00	0.00	204.59	45	104.59
1142	J-566	100.00	0.00	204.65	45	104.65
1144	J-567	100.00	0.00	191.76	40	91.76
1145	J-568	100.00	0.00	191.24	39	91.24
1147	J-569	100.00	0.00	194.34	41	94.34
1152	J-571	100.00	0.00	188.46	38	88.46
1153	J-572	100.00	0.00	188.45	38	88.45
1161	J-577	100.00	0.00	191.76	40	91.76
1162	J-578	100.00	0.00	192.30	40	92.30
1164	J-579	100.00	0.00	201.26	44	101.26
1165	J-580	100.00	0.00	201.30	44	101.30
1167	J-581	100.00	0.00	188.47	38	88.47
1168	J-582	100.00	0.00	188.45	38	88.45
1170	J-583	100.00	0.00	208.33	47	108.33
1174	J-584	100.00	0.00	204.65	45	104.65
1177	J-585	100.00	0.00	204.58	45	104.58
1181	J-586	100.00	0.00	195.80	41	95.80
1183	J-587	100.00	0.00	204.57	45	104.57
1186	J-588	100.00	0.00	191.76	40	91.76
1188	J-589	100.00	0.00	188.30	38	88.30
1189	J-590	100.00	0.00	188.43	38	88.43
1191	J-591	100.00	0.00	205.08	45	105.08
1192	J-592	100.00	0.00	205.16	45	105.16
1194	J-593	100.00	0.00	192.59	40	92.59
1196	J-594	100.00	0.00	204.90	45	104.90
1197	J-595	100.00	0.00	204.53	45	104.53
1199	J-596	100.00	59.88	203.73	45	103.73
1201	J-597	100.00	152.13	195.31	41	95.31
1204	J-598	100.00	0.00	188.44	38	88.44
1205	J-599	100.00	0.00	188.43	38	88.43
1210	J-601	100.00	0.00	200.78	44	100.78
1212	J-602	100.00	0.00	194.49	41	94.49
1213	J-603	100.00	0.00	193.58	40	93.58
1216	J-604	100.00	0.00	193.25	40	93.25
1217	J-605	100.00	0.00	192.78	40	92.78
1219	J-606	100.00	0.00	204.53	45	104.53
1220	J-607	100.00	0.00	204.63	45	104.63
1222	J-608	100.00	0.00	201.86	44	101.86
1224	J-609	100.00	72.63	210.17	48	110.17
1225	J-610	100.00	0.00	210.25	48	110.25
1227	J-611	100.00	42.63	195.44	41	95.44

FlexTable: Junction Table

Current Time: 19.00 hours

ID	Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psf)	Pressure Head (ft)
1230	J-612	100.00	0.00	210.19	48	110.19
1231	J-613	100.00	0.00	210.21	48	110.21
1233	J-614	100.00	0.00	204.23	45	104.23
1235	J-615	100.00	0.00	194.50	41	94.50
1236	J-616	100.00	72.63	193.93	41	93.93
1238	J-617	100.00	0.00	135.58	15	35.58
1240	J-618	100.00	0.00	188.46	38	88.46
1241	J-619	100.00	0.00	188.43	38	88.43
1246	J-620	100.00	0.00	210.19	48	110.19
1247	J-621	100.00	0.00	212.46	49	112.46
1249	J-622	100.00	0.00	210.51	48	110.51
1252	J-623	100.00	0.00	196.45	42	96.45
1254	J-624	100.00	0.00	204.47	45	104.47
1257	J-625	100.00	0.00	195.69	41	95.69
1258	J-626	100.00	0.00	195.19	41	95.19
1262	J-627	100.00	0.00	188.45	38	88.45
1265	J-628	100.00	41.13	193.50	40	93.50
1267	J-629	100.00	0.00	204.53	45	104.53
1268	J-630	100.00	0.00	204.57	45	104.57
1270	J-631	100.00	0.00	196.18	42	96.18
1271	J-632	100.00	0.00	195.43	41	95.43
1275	J-633	100.00	78.63	204.08	45	104.08
1281	J-634	100.00	0.00	194.33	41	94.33
1283	J-635	100.00	93.63	204.61	45	104.61
1284	J-636	100.00	0.00	205.55	46	105.55
1287	J-637	100.00	0.00	206.60	46	106.60
1288	J-638	100.00	78.63	206.31	46	106.31
1294	J-639	100.00	0.00	202.97	45	102.97
1297	J-640	100.00	0.00	207.88	47	107.88
1298	J-641	100.00	0.00	211.57	48	111.57
1305	J-642	100.00	41.13	192.09	40	92.09
1322	J-643	100.00	0.00	210.26	48	110.26
1326	J-644	100.00	0.00	204.65	45	104.65
1330	J-645	100.00	0.00	214.18	49	114.18
1339	J-646	100.00	0.00	204.58	45	104.58
2181	J-647	100.00	0.00	220.92	52	120.92
2186	J-648	100.00	0.00	197.71	42	97.71
2192	J-649	100.00	0.00	194.35	41	94.35
2199	J-650	100.00	0.00	204.62	45	104.62
2204	J-651	100.00	0.00	207.34	46	107.34
2212	J-652	100.00	0.00	208.88	47	108.88
2215	J-653	100.00	0.00	198.56	43	98.56
2226	J-654	100.00	0.00	193.35	40	93.35
2245	J-655	100.00	0.00	192.09	40	92.09
2250	J-656	100.00	0.00	192.09	40	92.09
2276	J-657	100.00	185.13	192.08	40	92.08
2278	J-658	100.00	0.00	192.12	40	92.12
2280	J-659	100.00	0.00	192.09	40	92.09
2281	J-660	100.00	0.00	192.09	40	92.09
2283	J-661	100.00	0.00	192.09	40	92.09
2285	J-662	100.00	0.00	192.09	40	92.09
2288	J-663	100.00	0.00	192.12	40	92.12
2294	J-664	100.00	0.00	192.52	40	92.52
2297	J-665	100.00	0.00	192.12	40	92.12
2300	J-666	100.00	0.00	192.12	40	92.12
2302	J-667	100.00	0.00	192.12	40	92.12
2304	J-668	100.00	0.00	192.12	40	92.12
2306	J-669	100.00	0.00	192.12	40	92.12
2309	J-670	100.00	146.13	191.97	40	91.97
2311	J-671	100.00	0.00	192.50	40	92.50
2317	J-672	100.00	0.00	192.12	40	92.12
2325	J-673	100.00	0.00	195.14	41	95.14
2328	J-674	100.00	0.00	194.68	41	94.68
2330	J-675	100.00	23.13	194.50	41	94.50
2335	J-676	100.00	0.00	202.10	44	102.10
2338	J-677	100.00	0.00	202.10	44	102.10
2340	J-678	100.00	0.00	205.42	46	105.42
2343	J-679	100.00	0.00	205.42	46	105.42
2345	J-680	100.00	0.00	205.42	46	105.42
2347	J-681	100.00	0.00	205.42	46	105.42
2349	J-682	100.00	0.00	205.92	46	105.92
2352	J-683	100.00	0.00	205.60	46	105.60
2354	J-684	100.00	0.00	205.55	46	105.55
2356	J-685	100.00	99.63	205.36	46	105.36
2358	J-686	100.00	0.00	205.36	46	105.36
2362	J-687	100.00	0.00	205.46	46	105.46
2365	J-688	100.00	0.00	205.46	46	105.46
2369	J-689	100.00	0.00	205.12	45	105.12
2371	J-690	100.00	0.00	205.14	45	105.14
2373	J-691	100.00	0.00	205.53	46	105.53
2376	J-692	100.00	0.00	206.58	46	106.58
2378	J-693	100.00	0.00	207.29	46	107.29
2380	J-694	100.00	0.00	207.63	47	107.63
2382	J-695	100.00	0.00	207.86	47	107.86
2384	J-696	100.00	0.00	207.85	47	107.85

FlexTable: Junction Table

Current Time: 19.00 hours

ID	Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)	Pressure Head (ft)
2386	J-697	100.00	0.00	207.76	47	107.76
2388	J-698	100.00	0.00	207.35	46	107.35
2392	J-699	100.00	0.00	207.80	47	107.80
2396	J-700	100.00	0.00	206.67	46	106.67
2400	J-701	100.00	0.00	207.81	47	107.81
2404	J-702	100.00	0.00	208.16	47	108.16
2408	J-703	100.00	0.00	209.67	47	109.67
2414	J-705	100.00	0.00	210.50	48	110.50
2418	J-706	100.00	0.00	204.57	45	104.57
2420	J-707	100.00	0.00	204.57	45	104.57
2422	J-708	100.00	0.00	204.57	45	104.57
2423	J-709	100.00	0.00	204.57	45	104.57
2425	J-710	100.00	0.00	204.57	45	104.57
2429	J-711	100.00	0.00	204.57	45	104.57
2431	J-712	100.00	0.00	204.57	45	104.57
2434	J-713	100.00	0.00	204.58	45	104.58
2436	J-714	100.00	0.00	204.57	45	104.57
2440	J-715	100.00	0.00	204.63	45	104.63
2443	J-716	100.00	0.00	204.63	45	104.63
2445	J-717	100.00	0.00	204.63	45	104.63
2447	J-718	100.00	0.00	204.63	45	104.63
2449	J-719	100.00	0.00	204.63	45	104.63
2451	J-720	100.00	0.00	204.62	45	104.62
2454	J-721	100.00	0.00	204.64	45	104.64
2456	J-722	100.00	102.63	204.65	45	104.65
2458	J-723	100.00	0.00	204.67	45	104.67
2462	J-724	100.00	0.00	204.82	45	104.82
2464	J-725	100.00	0.00	204.91	45	104.91
2468	J-726	100.00	68.13	204.85	45	104.85
2470	J-727	100.00	0.00	205.29	46	105.29
2474	J-728	100.00	0.00	205.74	46	105.74
2476	J-729	100.00	63.63	205.74	46	105.74
2478	J-730	100.00	0.00	205.96	46	105.96
2480	J-731	100.00	0.00	205.98	46	105.98
2483	J-732	100.00	0.00	212.89	49	112.89
2495	J-733	100.00	0.00	204.53	45	104.53
2496	J-734	100.00	0.00	204.53	45	104.53
2498	J-735	100.00	0.00	204.53	45	104.53
2502	J-736	100.00	0.00	204.54	45	104.54
2505	J-737	100.00	0.00	204.54	45	104.54
2507	J-738	100.00	0.00	204.54	45	104.54
2509	J-739	100.00	0.00	204.54	45	104.54
2511	J-740	100.00	0.00	204.54	45	104.54
2513	J-741	100.00	0.00	204.55	45	104.55
2516	J-742	100.00	0.00	204.55	45	104.55
2518	J-743	100.00	0.00	204.54	45	104.54
2521	J-744	100.00	0.00	204.54	45	104.54
2523	J-745	100.00	0.00	204.54	45	104.54
2526	J-746	100.00	0.00	204.54	45	104.54
2528	J-747	100.00	0.00	204.38	45	104.38
2531	J-748	100.00	0.00	204.38	45	104.38
2533	J-749	100.00	0.00	204.38	45	104.38
2537	J-750	100.00	0.00	201.29	44	101.29
2538	J-751	100.00	0.00	201.29	44	101.29
2540	J-752	100.00	0.00	201.29	44	101.29
2542	J-753	100.00	0.00	201.29	44	101.29
2544	J-754	100.00	0.00	201.29	44	101.29
2548	J-755	100.00	0.00	201.29	44	101.29
2550	J-756	100.00	0.00	201.29	44	101.29
2554	J-757	100.00	0.00	201.29	44	101.29
2556	J-758	100.00	0.00	201.29	44	101.29
2560	J-759	100.00	0.00	201.29	44	101.29
2562	J-760	100.00	0.00	201.29	44	101.29
2564	J-761	100.00	0.00	201.29	44	101.29
2566	J-762	100.00	0.00	201.29	44	101.29
2568	J-763	100.00	0.00	201.29	44	101.29
2570	J-764	100.00	0.00	201.29	44	101.29
2572	J-765	100.00	0.00	201.29	44	101.29
2574	J-766	100.00	0.00	201.29	44	101.29
2576	J-767	100.00	0.00	201.29	44	101.29
2578	J-768	100.00	0.00	201.29	44	101.29
2583	J-769	100.00	0.00	201.29	44	101.29
2587	J-770	100.00	0.00	198.60	43	98.60
2590	J-771	100.00	0.00	200.92	44	100.92
2592	J-772	100.00	0.00	200.90	44	100.90
2594	J-773	100.00	0.00	200.92	44	100.92
2596	J-774	100.00	0.00	201.08	44	101.08
2598	J-775	100.00	0.00	200.93	44	100.93
2603	J-776	100.00	0.00	200.93	44	100.93
2606	J-777	100.00	0.00	200.92	44	100.92
2608	J-778	100.00	0.00	200.92	44	100.92
2612	J-779	100.00	0.00	200.92	44	100.92
2615	J-780	100.00	0.00	200.92	44	100.92
2619	J-781	100.00	0.00	200.92	44	100.92
2623	J-782	100.00	0.00	200.92	44	100.92

FlexTable: Junction Table

Current Time: 19.00 hours

ID	Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)	Pressure Head (ft)
2625	J-783	100.00	68.13	200.89	44	100.89
2634	J-784	100.00	0.00	196.93	42	96.93
2637	J-785	100.00	0.00	197.47	42	97.47
2644	J-786	100.00	0.00	207.14	46	107.14
2646	J-787	100.00	0.00	207.24	46	107.24
2648	J-788	100.00	0.00	207.42	46	107.42
2652	J-789	100.00	0.00	207.74	47	107.74
2654	J-790	100.00	0.00	207.84	47	107.84
2671	J-791	100.00	0.00	207.17	46	107.17
2680	J-792	100.00	0.00	221.32	52	121.32
2685	J-793	100.00	0.00	220.48	52	120.48
2700	J-794	100.00	0.00	206.57	46	106.57
2705	J-795	100.00	0.00	204.36	45	104.36
2720	J-797	100.00	0.00	222.89	53	122.89
2731	J-798	100.00	0.00	211.75	48	111.75
2776	J-799	100.00	150.63	192.51	40	92.51
2779	J-800	100.00	68.13	197.18	42	97.18
2782	J-801	100.00	62.13	204.57	45	104.57
2785	J-802	100.00	30.63	211.34	48	111.34
2787	J-803	100.00	197.88	214.38	49	114.38
2790	J-804	100.00	197.88	202.00	44	102.00
2796	J-805	100.00	27.63	196.83	42	96.83
2799	J-806	100.00	11.13	197.65	42	97.65
2805	J-807	100.00	12.63	192.33	40	92.33
2808	J-808	100.00	206.88	191.84	40	91.84
2811	J-809	100.00	150.63	204.24	45	104.24
2814	J-810	100.00	0.00	204.35	45	104.35
2818	J-811	100.00	123.63	204.11	45	104.11
2821	J-812	100.00	72.63	203.87	45	103.87
2824	J-813	100.00	165.63	204.24	45	104.24
2829	J-814	100.00	0.00	204.34	45	104.34
2831	J-815	100.00	47.13	204.53	45	104.53
2834	J-816	100.00	101.88	205.51	46	105.51
2837	J-817	100.00	81.63	204.88	45	104.88
2840	J-818	100.00	81.63	204.41	45	104.41
2843	J-819	100.00	146.13	204.51	45	104.51
2846	J-820	100.00	33.63	206.49	46	106.49
2850	J-821	100.00	108.63	213.82	49	113.82
2856	J-822	100.00	146.13	196.43	42	96.43
2860	J-823	100.00	0.00	213.43	49	113.43
2931	J-1045	100.00	0.00	197.16	42	97.16
2942	J-1048	100.00	0.00	195.93	42	95.93
2946	J-1049	100.00	0.00	196.97	42	96.97
2955	J-1050	100.00	0.00	209.62	47	109.62
2960	J-1052	100.00	0.00	202.77	44	102.77
2984	J-1053	100.00	0.00	192.50	40	92.50
3007	J-1058	100.00	0.00	192.22	40	92.22
3011	J-1059	100.00	0.00	205.57	46	105.57
3021	J-1060	100.00	0.00	212.52	49	112.52
3067	J-1069	100.00	0.00	192.09	40	92.09
3073	J-1070	100.00	0.00	192.10	40	92.10
3075	J-1071	100.00	0.00	192.10	40	92.10
3077	J-1072	100.00	0.00	192.10	40	92.10
3083	J-1073	100.00	0.00	192.53	40	92.53
3091	J-1074	100.00	0.00	203.04	45	103.04
3093	J-1075	100.00	0.00	203.04	45	103.04
3096	J-1076	100.00	0.00	203.06	45	103.06
3098	J-1077	100.00	0.00	203.10	45	103.10
3100	J-1078	100.00	0.00	203.11	45	103.11
3104	J-1079	100.00	0.00	203.11	45	103.11
3107	J-1080	100.00	0.00	203.09	45	103.09
3109	J-1081	100.00	0.00	203.08	45	103.08
3111	J-1082	100.00	0.00	203.04	45	103.04
3115	J-1083	100.00	0.00	203.09	45	103.09
3118	J-1084	100.00	0.00	203.10	45	103.10
3120	J-1085	100.00	0.00	203.10	45	103.10
3122	J-1086	100.00	0.00	203.11	45	103.11
3124	J-1087	100.00	0.00	203.12	45	103.12
3126	J-1088	100.00	0.00	203.27	45	103.27
3130	J-1089	100.00	0.00	203.11	45	103.11
3134	J-1090	100.00	0.00	203.35	45	103.35
3138	J-1091	100.00	0.00	202.28	44	102.28
3139	J-1092	100.00	0.00	202.28	44	102.28
3141	J-1093	100.00	0.00	202.28	44	102.28
3143	J-1094	100.00	0.00	202.28	44	102.28
3145	J-1095	100.00	0.00	202.28	44	102.28
3147	J-1096	100.00	0.00	202.28	44	102.28
3151	J-1097	100.00	0.00	208.35	47	108.35
3153	J-1098	100.00	0.00	208.16	47	108.16
3155	J-1099	100.00	0.00	208.08	47	108.08
3157	J-1100	100.00	0.00	206.14	46	106.14
3161	J-1101	100.00	0.00	207.89	47	107.89
3165	J-1102	100.00	0.00	201.01	44	101.01
3168	J-1103	100.00	0.00	200.96	44	100.96
3170	J-1104	100.00	0.00	200.96	44	100.96

FlexTable: Junction Table

Current Time: 19.00 hours

ID	Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)	Pressure Head (ft)
3173	J-1105	100.00	0.00	200.96	44	100.96
3176	J-1106	100.00	0.00	200.96	44	100.96
3180	J-1107	100.00	0.00	200.96	44	100.96
3183	J-1108	100.00	0.00	200.96	44	100.96
3187	J-1109	100.00	0.00	200.95	44	100.95
3190	J-1110	100.00	0.00	200.97	44	100.97
3195	J-1111	100.00	0.00	200.98	44	100.98
3199	J-1112	100.00	0.00	201.28	44	101.28
3201	J-1113	100.00	0.00	201.27	44	101.27
3203	J-1114	100.00	0.00	201.19	44	101.19
3205	J-1115	100.00	0.00	201.12	44	101.12
3210	J-1117	100.00	0.00	201.29	44	101.29
3213	J-1118	100.00	0.00	201.27	44	101.27
3219	J-1119	100.00	0.00	194.11	41	94.11
3221	J-1120	100.00	0.00	194.49	41	94.49
3223	J-1121	100.00	0.00	194.64	41	94.64
3228	J-1123	100.00	0.00	208.74	47	108.74
3231	J-1124	100.00	0.00	207.73	47	107.73
3235	J-1125	100.00	0.00	203.66	45	103.66
3239	J-1126	100.00	0.00	200.68	44	100.68
3273	J-1127	100.00	0.00	197.17	42	97.17
3336	J-1136	100.00	0.00	205.61	46	105.61
3343	J-1138	100.00	0.00	207.26	46	107.26
3348	J-1140	100.00	0.00	207.54	47	107.54
3355	J-1141	100.00	0.00	204.72	45	104.72
3359	J-1142	100.00	0.00	204.70	45	104.70
3369	J-1144	100.00	0.00	204.38	45	104.38
3373	J-1145	100.00	(N/A)	(N/A)	(N/A)	(N/A)
3375	J-1146	100.00	0.00	204.80	45	104.80
3378	J-1147	100.00	0.00	205.00	45	105.00
3383	J-1148	100.00	0.00	212.63	49	112.63
3389	J-1149	100.00	0.00	201.65	44	101.65
3393	J-1150	100.00	0.00	201.27	44	101.27
3397	J-1151	100.00	0.00	197.45	42	97.45
3402	J-1152	100.00	0.00	200.85	44	100.85
3405	J-1153	100.00	0.00	205.27	46	105.27
3416	J-1156	100.00	0.00	204.38	45	104.38
3420	J-1157	100.00	0.00	204.38	45	104.38
3431	J-1158	100.00	0.00	204.35	45	104.35
3435	J-1159	100.00	0.00	194.50	41	94.50
3441	J-1160	0.00	(N/A)	(N/A)	(N/A)	(N/A)
3443	J-1161	0.00	(N/A)	(N/A)	(N/A)	(N/A)
3445	J-1162	0.00	(N/A)	(N/A)	(N/A)	(N/A)
3447	J-1163	89.95	(N/A)	(N/A)	(N/A)	(N/A)
3451	J-1164	0.00	(N/A)	(N/A)	(N/A)	(N/A)
3453	J-1165	0.00	(N/A)	(N/A)	(N/A)	(N/A)
3464	J-1166	0.00	0.00	207.12	90	207.12
3466	J-1167	100.00	0.00	207.17	46	107.17
3470	J-1168	0.00	(N/A)	(N/A)	(N/A)	(N/A)
3472	J-1169	100.00	(N/A)	(N/A)	(N/A)	(N/A)
3476	J-1170	100.00	(N/A)	(N/A)	(N/A)	(N/A)
3479	J-1171	0.00	(N/A)	(N/A)	(N/A)	(N/A)
3486	J-1173	100.00	0.00	205.49	46	105.49
3490	J-1174	100.00	0.00	205.49	46	105.49
3507	J-1175	0.00	(N/A)	(N/A)	(N/A)	(N/A)
3515	J-1177	0.00	(N/A)	(N/A)	(N/A)	(N/A)
3518	J-1178	100.00	0.00	205.82	46	105.82
3523	J-1179	100.00	0.00	206.16	46	106.16
3535	J-1180	100.00	(N/A)	(N/A)	(N/A)	(N/A)
3539	J-1181	100.00	(N/A)	(N/A)	(N/A)	(N/A)
3546	J-1183	0.00	(N/A)	(N/A)	(N/A)	(N/A)
3563	J-1185	100.00	0.00	200.68	44	100.68
3567	J-1186	100.00	0.00	200.78	44	100.78
3571	J-1187	100.00	0.00	200.72	44	100.72
3585	J-1190	100.00	0.00	191.91	40	91.91
3592	J-1192	100.00	0.00	206.40	46	106.40
3595	J-1193	100.00	0.00	204.35	45	104.35
3600	J-1194	100.00	0.00	204.35	45	104.35
3604	J-1195	100.00	0.00	210.26	48	110.26
3615	J-1198	100.00	0.00	193.59	40	93.59
3617	J-1199	100.00	0.00	193.87	41	93.87
3619	J-1200	100.00	0.00	194.04	41	94.04

Scenario: 2023
Low Pressure Analysis
Pipe Table

Current Time: 19.00 hours@Peak Flow

ID	Label	Length (Scales) (ft)	Diameter (in)	Flow (gpm)	Material	Headloss (ft)	Pressure (Stop) (psi)	Pressure (Start) (psi)	Notes
2766	P-939	239	30.0	41,034.41	PVC	5.21	5	0	Raw Water Line
2724	P-928	342	20.0	5,338.21	PVC	1.23	53	53	
2681	P-910	165	20.0	3,930.18	PVC	0.34	52	53	
2682	P-911	232	20.0	3,606.50	PVC	0.40	52	52	
2688	P-915	388	20.0	2,858.45	PVC	0.44	52	52	
2726	P-929	118	14.0	2,669.25	PVC	0.67	1	5	Transfer Line
2727	P-930	66	14.0	2,669.25	PVC	0.38	53	52	
2717	P-926	118	14.0	2,668.96	PVC	0.67	1	5	Transfer Line
2697	P-916	476	20.0	1,931.28	PVC	0.26	52	52	
2698	P-917	186	20.0	1,931.28	PVC	0.10	52	52	
975	P-159	119	8.0	1,274.20	PVC	2.62	47	48	
798	P-121	90	8.0	815.63	PVC	0.86	48	50	
1391	P-216	814	12.0	1,423.59	PVC	3.04	51	52	
1085	P-173	589	8.0	989.00	PVC	8.08	4	7	Transfer Line
2669	P-904	351	8.0	989.00	PVC	4.82	3	2	Transfer Line
2674	P-907	1,398	8.0	989.00	PVC	19.19	7	15	Transfer Line
2740	P-936	177	10.0	989.00	PVC	0.82	1	5	Transfer Line
2742	P-938	39	8.0	989.00	PVC	0.53	40	39	Transfer Line
127	P-13	1,465	12.0	1,054.93	PVC	3.15	49	51	
3236	P-306	569	8.0	696.24	PVC	4.08	45	47	
2670	P-905	107	8.0	814.64	PVC	1.03	2	3	Transfer Line
2732	P-932	62	16.0	814.64	PVC	0.02	48	48	
2733	P-933	88	8.0	814.64	PVC	0.84	48	52	
1398	P-220	1,004	10.0	484.53	PVC	1.24	47	47	
2963	P-229	2,633	10.0	724.32	PVC	6.85	44	47	
2168	P-673	1,407	10.0	602.86	PVC	2.60	45	47	
3229	P-238(1)	56	10.0	535.75	PVC	0.08	47	47	
1463	P-253	37	10.0	569.23	PVC	0.06	45	45	
1859	P-479	58	10.0	617.03	PVC	0.11	47	47	
2159	P-665	182	6.0	716.17	PVC	5.57	49	52	
1468	P-257	328	10.0	509.58	PVC	0.45	45	45	
1640	P-353	161	6.0	534.18	PVC	2.87	44	45	
2817	P-950	81	8.0	534.18	PVC	0.35	44	44	
3238	P-191(2)	1,140	8.0	527.37	PVC	4.88	43	45	
2488	P-818	1,258	8.0	596.40	PVC	6.77	46	49	
1814	P-453	312	8.0	507.63	PVC	1.24	39	39	
3533	P-398	117	8.0	507.63	PVC	0.47	38	38	
1847	P-473	436	10.0	486.24	PVC	0.54	43	43	
1698	P-382	498	8.0	556.39	PVC	2.36	48	49	
749	P-111	45	8.0	366.55	PVC	0.10	46	46	
2409	P-775	653	10.0	495.24	PVC	0.84	47	48	
374	P-66	328	6.0	356.07	PVC	2.75	47	48	
1464	P-254	127	10.0	365.47	PVC	0.09	45	45	
1827	P-462	512	8.0	466.81	PVC	1.75	40	41	
3233	P-234(1)	65	12.0	470.76	PVC	0.03	47	47	
3148	P-214(1)	1,401	12.0	475.87	PVC	0.69	44	45	
3149	P-214(2)	844	12.0	475.87	PVC	0.41	44	44	
1366	P-212	881	12.0	475.87	PVC	0.43	44	44	
1380	P-210	201	10.0	-208.48	PVC	0.05	52	52	
1781	P-429	66	8.0	430.56	PVC	0.19	38	38	
3394	P-307(1)	1,090	8.0	367.47	PVC	2.39	44	45	
3574	P-307(2)(1)(1)	251	8.0	367.47	PVC	0.55	44	44	
755	P-112	46	8.0	419.14	PVC	0.13	41	41	
2049	P-595	191	8.0	424.73	PVC	0.55	43	43	
3384	P-646(1)	220	8.0	484.14	PVC	0.80	49	49	
3385	P-646(2)	624	8.0	484.14	PVC	2.28	48	49	
1848	P-474	740	10.0	394.01	PVC	0.62	42	43	
2161	P-667	368	6.0	354.14	PVC	3.07	42	44	
1864	P-484	47	6.0	462.27	PVC	0.64	48	48	
2187	P-683	330	8.0	386.73	PVC	0.80	42	43	
2489	P-819	48	8.0	404.39	PVC	0.12	46	46	
1823	P-460	188	8.0	377.81	PVC	0.43	40	40	
3135	P-262(1)(1)	163	12.0	388.60	Ductile Iron	0.07	45	45	
1821	P-458	201	8.0	362.95	PVC	0.43	40	40	
3230	P-238(2)	31	10.0	310.27	PVC	0.02	47	47	
1423	P-233	251	8.0	310.27	PVC	0.40	47	47	
1392	P-217	57	12.0	368.66	PVC	0.02	51	51	
1582	P-319	91	12.0	335.31	PVC	0.02	47	47	
2227	P-702	120	8.0	339.78	PVC	0.23	40	40	
3232	P-305	1,130	8.0	225.48	PVC	1.00	47	47	
1214	P-192	1,210	8.0	338.19	PVC	2.28	43	44	
1512	P-283	180	8.0	334.31	PVC	0.33	40	40	
1816	P-454	315	8.0	334.84	PVC	0.58	39	40	
1533	P-291	1,714	8.0	340.27	PVC	3.26	42	43	
1554	P-302	214	6.0	340.27	PVC	1.66	43	44	
2791	P-948	1,985	6.0	355.61	Asbestos Cement	18.92	44	52	
1387	P-213	94	12.0	348.97	PVC	0.03	45	45	
1180	P-189	1,096	8.0	315.08	PVC	1.81	41	42	
1844	P-470	1,391	8.0	315.08	PVC	2.30	40	41	
2557	P-852	527	12.0	345.09	PVC	0.14	44	44	
2558	P-853	575	12.0	345.09	PVC	0.16	44	44	
1094	P-174	730	8.0	311.37	PVC	1.18	42	43	
2687	P-914	2,049	6.0	333.04	PVC	15.21	46	52	

FlexTable: Pipe Table
Current Time: 19.00 hours

ID	Label	Length (Scaled) (ft)	Diameter (in)	Flow (gpm)	Material	Headloss (ft)	Pressure (psi)	Pressure (Start) (psi)	Notes
2058	P-601	587	6.0	333.04	PVC	4.36	44	46	
1885	P-499	38	8.0	306.27	PVC	0.06	45	45	
1830	P-464	73	8.0	273.95	PVC	0.09	40	40	
2048	P-594	210	8.0	278.60	PVC	0.28	42	42	
2986	P-100(2)	1,254	6.0	263.13	PVC	6.02	37	40	
2324	P-729	139	8.0	262.69	PVC	0.16	41	41	
3136	P-262(1)(2)	1,006	12.0	278.76	Ductile Iron	0.24	45	45	
2149	P-659	64	6.0	210.93	PVC	0.20	52	52	
1531	P-289	561	8.0	245.79	PVC	0.58	41	42	
2147	P-657	428	6.0	328.87	PVC	3.11	48	49	
1824	P-461	308	8.0	248.67	PVC	0.33	40	40	
1853	P-476	82	6.0	219.45	PVC	0.28	45	45	
3390	P-599(1)	750	6.0	219.45	PVC	2.57	44	45	
3391	P-599(2)	253	6.0	219.45	PVC	0.87	44	44	
3102	P-262(2)	558	12.0	261.94	Ductile Iron	0.12	45	45	
2051	P-596	304	8.0	243.74	PVC	0.31	43	43	
1599	P-328	217	6.0	240.30	PVC	0.88	43	44	
186	P-19	40	6.0	167.89	PVC	0.08	46	46	
725	P-108	34	6.0	167.89	PVC	0.07	46	46	
3152	P-284	158	6.0	216.18	PVC	0.53	47	47	
3163	P-287(2)	525	6.0	216.18	PVC	1.75	46	47	
2962	P-736(2)	170	6.0	235.40	PVC	0.67	44	44	
2337	P-737	257	6.0	235.40	PVC	1.00	44	44	
2353	P-745	352	8.0	228.64	PVC	0.32	46	46	
2471	P-808	159	6.0	252.45	PVC	0.71	46	46	
1860	P-480	410	10.0	146.26	PVC	0.06	47	47	
256	P-33	173	6.0	239.03	PVC	0.69	50	51	
2640	P-893	38	6.0	188.07	PVC	0.10	42	42	
265	P-36	135	6.0	216.63	PVC	0.45	39	39	
313	P-52	221	6.0	206.88	PVC	0.68	40	40	
1448	P-246	2,603	6.0	206.88	PVC	8.00	36	40	
2633	P-889	146	6.0	189.65	PVC	0.38	42	42	
2081	P-614	451	8.0	200.14	PVC	0.32	47	47	
2139	P-652	253	8.0	200.14	PVC	0.18	46	47	
2484	P-816	424	8.0	266.50	PVC	0.51	49	49	
2188	P-684	308	8.0	207.24	PVC	0.23	42	42	
1699	P-383	364	8.0	201.54	PVC	0.26	48	48	
1510	P-282	314	8.0	196.89	PVC	0.22	40	40	
1251	P-197	1,607	8.0	199.79	PVC	1.14	41	42	
389	P-69	534	6.0	194.13	PVC	1.46	42	42	
3237	P-191(1)	99	8.0	198.60	PVC	0.07	45	45	
1324	P-200	158	6.0	225.65	PVC	0.57	47	48	
2130	P-647	92	8.0	225.65	PVC	0.08	48	48	
422	P-76	410	6.0	225.65	PVC	1.48	47	47	
1378	P-208	172	10.0	-504.82	PVC	0.23	51	52	
1846	P-472	825	6.0	171.16	PVC	1.79	41	42	
1929	P-523	109	6.0	229.79	PVC	0.41	47	47	
1930	P-524	341	6.0	229.79	PVC	1.28	46	47	
2947	P-956(1)	314	6.0	179.49	PVC	0.74	42	42	
2948	P-956(2)	2,172	6.0	179.49	PVC	5.13	40	42	
1557	P-304	502	6.0	180.50	PVC	1.20	44	45	
1415	P-230	222	6.0	177.08	PVC	0.51	46	46	
2191	P-686	1,384	8.0	174.85	PVC	0.77	40	41	
1547	P-299	1,460	6.0	179.01	PVC	3.43	42	44	
1738	P-410	78	10.0	107.14	PVC	0.01	45	45	
1143	P-181	949	8.0	172.79	PVC	0.52	39	40	
1516	P-284	1,511	8.0	164.93	PVC	0.75	40	41	
3164	P-288	254	6.0	155.82	PVC	0.46	47	47	
1124	P-179	891	8.0	186.06	PVC	0.55	46	46	
2190	P-685	287	8.0	163.26	PVC	0.14	41	41	
3570	P-418	51	6.0	188.11	PVC	0.13	44	44	
3569	P-307(2)(1)(2)	413	8.0	107.09	PVC	0.09	44	44	
1834	P-466	341	8.0	155.54	PVC	0.15	40	40	
1737	P-409	736	10.0	90.99	PVC	0.04	45	45	
2228	P-703	127	8.0	153.43	PVC	0.06	40	40	
3015	P-632(2)	483	6.0	150.63	PVC	0.83	45	46	
3159	P-961(2)	1,385	6.0	129.42	Asbestos Cement	2.03	45	46	
2162	P-668	492	6.0	132.44	PVC	0.66	42	42	
2075	P-609	64	8.0	142.76	PVC	0.02	46	46	
1879	P-495	581	8.0	160.14	PVC	0.27	45	45	
1886	P-500	283	8.0	160.14	PVC	0.13	45	45	
2641	P-894	247	6.0	138.00	PVC	0.36	42	42	
2034	P-587	207	6.0	138.00	PVC	0.30	42	42	
2135	P-650	561	8.0	143.04	PVC	0.21	40	40	
1532	P-290	875	8.0	143.14	PVC	0.34	41	41	
2083	P-615	63	8.0	110.13	PVC	0.01	47	47	
2089	P-620	389	8.0	110.13	PVC	0.09	47	47	
1643	P-354	452	6.0	109.28	PVC	0.43	45	46	
1256	P-198	1,394	8.0	138.35	PVC	0.50	41	41	
2329	P-731	1,300	8.0	138.35	PVC	0.47	41	41	
2333	P-734	489	8.0	138.35	PVC	0.18	41	41	
437	P-80	594	6.0	145.77	PVC	0.96	41	42	
1600	P-329	432	6.0	144.42	PVC	0.68	43	43	

FlexTable: Pipe Table
Current Time: 19.00 hours

ID	Label	Length (Scaled) (ft)	Diameter (in)	Flow (gpm)	Material	Headloss (ft)	Pressure (Stop) (psi)	Pressure (Start) (psi)	Notes
1598	P-327	465	6.0	144.42	PVC	0.73	43	43	
1414	P-229	616	6.0	155.52	PVC	1.12	46	46	
2163	P-669	313	8.0	130.91	PVC	0.10	40	40	
2164	P-670	177	8.0	130.91	PVC	0.06	40	40	
1838	P-467	985	8.0	130.91	PVC	0.32	40	40	
2066	P-505	188	8.0	129.63	PVC	0.06	51	51	
3399	P-93(2)	407	6.0	129.63	PVC	0.53	42	42	
2360	P-748	121	8.0	129.01	PVC	0.04	46	46	
2792	P-949	647	6.0	157.73	Asbestos Cement	1.37	44	44	
3207	P-340(2)	901	8.0	141.95	PVC	0.34	44	44	
1073	P-170	610	8.0	118.42	PVC	0.16	40	40	
890	P-143	216	8.0	130.77	PVC	0.07	44	44	
3208	P-300	214	8.0	130.77	PVC	0.07	44	44	
3218	P-299(2)(2)	198	8.0	130.77	PVC	0.06	44	44	
2391	P-763	297	6.0	134.42	PVC	0.41	46	47	
2077	P-611	262	8.0	119.70	PVC	0.07	46	46	
883	P-140	217	8.0	119.13	PVC	0.06	47	47	
1584	P-321	746	6.0	119.13	PVC	0.83	47	47	
2099	P-629	18	6.0	51.76	PVC	0.00	46	46	
3607	P-426	43	8.0	121.07	PVC	0.01	48	48	
822	P-128	110	8.0	112.05	PVC	0.03	42	42	
2364	P-750	385	8.0	113.53	PVC	0.10	46	46	
2956	P-776(1)	634	10.0	113.10	PVC	0.05	47	47	
2054	P-598	420	6.0	89.33	PVC	0.27	44	44	
2074	P-508	626	6.0	109.18	PVC	0.59	46	46	
1114	P-176	1,206	8.0	102.65	PVC	0.25	41	41	
3195	P-289(1)(1)(1)	141	8.0	110.32	PVC	0.03	44	44	
2472	P-809	335	6.0	120.97	PVC	0.38	45	46	
1822	P-459	711	8.0	103.99	PVC	0.15	40	40	
1644	P-355	774	6.0	101.88	PVC	0.64	45	45	
1928	P-522	1,335	6.0	117.07	PVC	1.43	46	46	
2355	P-746	233	8.0	101.16	PVC	0.05	46	46	
2363	P-749	444	8.0	101.16	PVC	0.09	46	46	
2399	P-768	698	6.0	105.80	PVC	0.62	46	46	
1828	P-463	701	8.0	103.86	PVC	0.15	40	40	
1451	P-247	129	10.0	25.67	PVC	0.00	45	45	
2777	P-940	1,221	8.0	99.43	PVC	0.24	40	40	
2323	P-728	232	8.0	99.43	PVC	0.05	41	41	
876	P-137	155	6.0	54.46	PVC	0.04	45	45	
1508	P-281	817	8.0	97.45	PVC	0.15	40	40	
2985	P-100(1)	123	6.0	97.45	PVC	0.09	40	40	
1722	P-400	34	6.0	98.15	PVC	0.03	46	46	
2701	P-918	206	6.0	98.15	PVC	0.16	46	46	
2704	P-921	100	6.0	98.15	PVC	0.08	46	46	
3166	P-338(1)	826	6.0	84.84	PVC	0.49	44	44	
530	P-91	1,149	6.0	92.23	PVC	0.79	42	43	
2052	P-597	1,224	8.0	97.61	PVC	0.23	42	43	
2032	P-586	195	6.0	89.34	PVC	0.13	42	42	
2148	P-658	42	6.0	164.50	PVC	0.08	48	48	
2387	P-761	119	6.0	97.64	PVC	0.09	47	47	
2406	P-773	404	6.0	97.64	PVC	0.31	47	47	
1979	P-550	326	6.0	73.16	PVC	0.15	42	42	
2128	P-645	179	6.0	99.79	PVC	0.14	46	46	
1880	P-496	292	8.0	95.56	PVC	0.05	45	45	
2825	P-965	691	8.0	84.08	PVC	0.10	45	45	
1705	P-388	101	8.0	0.31	PVC	0.00	45	45	
985	P-161	340	8.0	0.31	PVC	0.00	45	45	
1706	P-389	323	8.0	0.31	PVC	0.00	45	45	
1664	P-367	89	6.0	86.88	PVC	0.06	45	45	
316	P-53	310	6.0	86.88	PVC	0.19	46	46	
362	P-62	281	6.0	86.88	PVC	0.17	45	45	
727	P-109	146	8.0	99.22	PVC	0.03	42	42	
1845	P-471	326	6.0	78.93	PVC	0.17	42	42	
3086	P-261	179	8.0	86.23	PVC	0.03	40	40	
922	P-151	225	8.0	90.07	PVC	0.04	42	42	
1476	P-262	172	6.0	71.06	PVC	0.07	46	46	
1115	P-177	882	8.0	86.17	PVC	0.13	40	40	
2800	P-952	348	6.0	85.72	PVC	0.21	42	42	
1620	P-342	39	8.0	104.79	PVC	0.01	44	44	
1574	P-314	1,020	6.0	66.56	PVC	0.38	46	46	
2087	P-618	143	6.0	86.13	PVC	0.09	47	47	
2088	P-619	557	6.0	86.13	PVC	0.34	46	47	
715	P-105	316	8.0	94.48	PVC	0.06	41	42	
1534	P-292	1,195	8.0	94.48	PVC	0.21	42	42	
2094	P-625	332	8.0	78.63	PVC	0.04	46	46	
60	P-4	306	10.0	78.63	PVC	0.01	45	45	
3593	P-623(1)	1,578	8.0	78.63	PVC	0.20	46	46	
3594	P-623(2)	713	8.0	78.63	PVC	0.09	46	46	
1621	P-343	64	8.0	93.61	PVC	0.01	44	44	
1480	P-265	575	6.0	61.56	PVC	0.19	46	46	
1558	P-305	738	6.0	75.63	PVC	0.35	44	44	
2801	P-953	1,015	6.0	74.59	PVC	0.47	42	42	
1083	P-172	630	8.0	70.62	PVC	0.07	42	42	

FlexTable: Pipe Table
Current Time: 19.00 hours

ID	Label	Length (Scaled) (ft)	Diameter (in)	Flow (gpm)	Material	Headloss (ft)	Pressure (Stop) (psi)	Pressure (Start) (psi)	Notes
1234	P-195	1,279	6.0	72.63	PVC	0.57	41	41	
371	P-65	336	6.0	59.64	PVC	0.10	45	45	
1479	P-264	175	6.0	98.96	PVC	0.14	46	46	
852	P-130	97	8.0	73.79	PVC	0.01	46	46	
2072	P-607	783	6.0	70.11	PVC	0.32	46	46	
1731	P-403	61	8.0	70.11	PVC	0.01	46	46	
2626	P-886	169	8.0	68.13	PVC	0.02	44	44	
2090	P-621	64	8.0	24.01	PVC	0.00	47	47	
3154	P-285	608	6.0	60.37	PVC	0.19	47	47	
3156	P-286	253	6.0	60.37	PVC	0.08	47	47	
3162	P-287(1)	608	6.0	60.37	PVC	0.19	47	47	
2105	P-633	323	6.0	63.39	PVC	0.11	45	45	
2815	P-959	811	6.0	63.39	PVC	0.28	45	45	
1741	P-411	345	6.0	74.83	PVC	0.16	45	45	
3087	P-86(1)	611	6.0	74.83	PVC	0.29	45	45	
2321	P-726	1,164	8.0	61.30	PVC	0.09	41	41	
1374	P-207	751	8.0	65.29	PVC	0.07	44	44	
2822	P-963	1,206	6.0	65.98	PVC	0.45	45	45	
2315	P-722	191	8.0	59.90	PVC	0.01	40	40	
177	P-16	33	6.0	59.88	PVC	0.01	47	47	
2107	P-635	888	8.0	59.52	PVC	0.07	46	46	
1857	P-477	632	8.0	-132.49	PVC	0.21	47	47	
1416	P-231	191	6.0	59.07	PVC	0.06	46	46	
2079	P-613	549	8.0	57.38	PVC	0.04	46	46	
2113	P-640	273	8.0	57.38	PVC	0.02	46	46	
2140	P-653	24	8.0	57.38	PVC	0.00	46	46	
3014	P-632(1)	533	6.0	61.25	PVC	0.17	46	46	
2109	P-636	357	6.0	55.13	PVC	0.09	46	46	
2857	P-985	1,020	6.0	52.99	PVC	0.25	42	42	
2466	P-805	646	6.0	66.00	PVC	0.24	45	45	
3108	P-267	228	8.0	57.71	PVC	0.02	45	45	
3110	P-268	226	8.0	57.71	PVC	0.02	45	45	
3114	P-269	490	8.0	57.71	PVC	0.03	45	45	
1726	P-401	690	8.0	53.61	PVC	0.04	46	46	
2832	P-969	802	6.0	37.98	PVC	0.11	45	45	
736	P-110	59	8.0	72.84	PVC	0.01	45	45	
1772	P-426	122	8.0	72.84	PVC	0.01	45	45	
1800	P-442	291	8.0	50.99	PVC	0.02	38	38	
2844	P-977	1,090	8.0	53.28	PVC	0.07	45	45	
3128	P-275	202	8.0	53.80	PVC	0.01	45	45	
1753	P-418	287	8.0	41.84	PVC	0.01	45	45	
1518	P-285	209	8.0	49.71	PVC	0.01	41	41	
2322	P-727	128	8.0	49.71	PVC	0.01	41	41	
1013	P-165	419	8.0	32.21	PVC	0.01	45	45	
1596	P-326	202	6.0	48.54	PVC	0.04	43	43	
3465	P-366	163	6.0	-27.60	PVC	0.01	90	90	
3469	P-367	694	6.0	-27.60	PVC	0.05	46	90	
1663	P-366	236	6.0	45.48	PVC	0.04	45	45	
2610	P-875	294	8.0	43.88	PVC	0.01	44	44	
1032	P-166	2,706	8.0	47.66	PVC	0.14	41	41	
2041	P-591	1,307	8.0	47.66	PVC	0.07	41	41	
353	P-61	278	6.0	43.02	PVC	0.05	46	46	
3189	P-291(2)(2)(2)	240	8.0	44.51	PVC	0.01	44	44	
3197	P-289(1)(1)(1)	244	8.0	44.51	PVC	0.01	44	44	
1639	P-352	359	6.0	7.40	PVC	0.00	45	45	
1470	P-259	118	8.0	76.08	PVC	0.01	45	45	
2709	P-925	369	6.0	41.40	PVC	0.06	45	45	
3211	P-297(1)	220	8.0	44.92	PVC	0.01	44	44	
3217	P-299(2)(1)	318	8.0	44.92	PVC	0.01	44	44	
80	P-8	1,043	10.0	84.02	PVC	0.05	45	45	
1452	P-248	387	10.0	-40.31	PVC	0.00	45	45	
1869	P-489	814	10.0	-40.31	PVC	0.01	45	45	
2029	P-584	790	6.0	36.35	PVC	0.10	42	42	
1721	P-399	343	6.0	39.08	PVC	0.05	46	46	
2841	P-975	832	6.0	50.15	PVC	0.19	45	45	
3194	P-295	178	8.0	39.19	PVC	0.01	44	44	
1273	P-199	1,658	8.0	-1.86	PVC	0.00	45	45	
955	P-156	284	8.0	35.09	PVC	0.01	45	45	
2783	P-943	838	8.0	33.80	PVC	0.02	45	45	
1166	P-187	1,025	8.0	32.25	PVC	0.02	38	38	
2018	P-575	405	6.0	20.39	PVC	0.02	42	42	
2160	P-666	247	6.0	89.84	PVC	0.16	49	49	
2786	P-945	615	6.0	30.63	PVC	0.05	48	48	
896	P-145	309	8.0	29.97	PVC	0.01	48	48	
1457	P-251	80	8.0	13.41	PVC	0.00	45	45	
1458	P-252	1,266	8.0	13.41	PVC	0.01	45	45	
562	P-96	1,086	8.0	-10.51	PVC	0.00	45	45	
2076	P-610	390	8.0	23.06	PVC	0.01	46	46	
3070	P-253	245	8.0	27.75	PVC	0.00	40	40	
878	P-138	150	8.0	5.21	PVC	0.00	45	45	
2614	P-878	211	8.0	26.87	PVC	0.00	44	44	
2970	P-271(2)	42	10.0	-34.84	PVC	0.00	45	45	

FlexTable: Pipe Table
Current Time: 19.00 hours

ID	Label	Length (Scaled) (ft)	Diameter (in)	Flow (gpm)	Material	Headloss (ft)	Pressure (Stop) (psi)	Pressure (Start) (psi)	Notes
2218	P-700	647	6.0	28.24	PVC	0.05	43	43	
2219	P-701	553	6.0	28.24	PVC	0.04	43	43	
902	P-146	165	8.0	26.08	PVC	0.00	38	38	
1795	P-439	281	8.0	26.08	PVC	0.00	38	38	
1806	P-446	563	8.0	26.08	PVC	0.01	38	38	
2820	P-962	4,584	6.0	5.79	Asbestos Cement	0.02	45	45	
1749	P-416	279	8.0	5.79	PVC	0.00	45	45	
3188	P-291(2)(2)(1)	252	8.0	26.26	PVC	0.00	44	44	
3192	P-289(1)(1)(2)	252	8.0	26.26	PVC	0.00	44	44	
2136	P-651	332	8.0	24.62	PVC	0.00	40	40	
1808	P-448	245	8.0	23.90	PVC	0.00	38	38	
795	P-120	65	8.0	36.05	PVC	0.00	45	45	
805	P-124	72	8.0	36.05	PVC	0.00	45	45	
1499	P-277	358	8.0	15.48	PVC	0.00	45	45	
3216	P-301	1,013	8.0	25.31	PVC	0.02	44	44	
2616	P-879	175	8.0	22.81	PVC	0.00	44	44	
2708	P-924	653	6.0	20.96	PVC	0.03	45	45	
1151	P-184	1,009	8.0	20.91	PVC	0.01	38	38	
2535	P-842	434	6.0	14.76	PVC	0.01	45	45	
2588	P-869	265	6.0	20.30	PVC	0.01	43	43	
2589	P-870	902	6.0	20.30	PVC	0.04	43	43	
1769	P-424	54	10.0	-118.97	PVC	0.00	45	45	
1802	P-443	280	8.0	18.74	PVC	0.00	38	38	
786	P-119	102	8.0	43.48	PVC	0.00	45	45	
3202	P-298	1,002	8.0	19.61	PVC	0.01	44	44	
3212	P-297(2)	310	8.0	19.61	PVC	0.00	44	44	
3214	P-299(1)	312	8.0	19.61	PVC	0.00	44	44	
3133	P-277	210	8.0	19.04	PVC	0.00	45	45	
2835	P-971	496	6.0	24.29	PVC	0.03	46	46	
1903	P-510	57	8.0	39.26	PVC	0.00	45	45	
2460	P-602	114	6.0	39.26	PVC	0.02	45	45	
2611	P-876	906	8.0	17.01	PVC	0.01	44	44	
3069	P-707(2)	1,134	8.0	15.99	PVC	0.01	40	40	
3181	P-291(2)(1)	269	8.0	15.33	PVC	0.00	44	44	
3185	P-289(1)(2)	267	8.0	15.33	PVC	0.00	44	44	
2613	P-877	165	8.0	14.56	PVC	0.00	44	44	
1939	P-528	62	6.0	-11.20	Asbestos Cement	0.00	49	49	
800	P-122	132	8.0	14.13	PVC	0.00	48	48	
1807	P-447	766	8.0	13.83	PVC	0.00	38	38	
2359	P-747	218	8.0	13.90	PVC	0.00	46	46	
1456	P-250	294	8.0	62.67	PVC	0.02	45	45	
224	P-26	61	8.0	12.61	PVC	0.00	40	40	
3080	P-258	1,136	8.0	12.61	PVC	0.00	40	40	
2424	P-783	522	8.0	2.08	PVC	0.00	45	45	
2428	P-786	298	8.0	2.08	PVC	0.00	45	45	
1728	P-402	189	8.0	10.59	PVC	0.00	46	46	
1732	P-404	375	8.0	10.59	PVC	0.00	46	46	
2617	P-880	207	8.0	10.50	PVC	0.00	44	44	
1105	P-175	1,062	8.0	10.07	PVC	0.00	38	38	
2534	P-841	491	6.0	8.59	PVC	0.00	45	45	
1604	P-332	709	6.0	13.11	PVC	0.01	42	42	
564	P-97	1,354	6.0	10.36	PVC	0.02	43	43	
2532	P-840	487	6.0	6.17	PVC	0.00	45	45	
2536	P-843	156	6.0	6.17	PVC	0.00	45	45	
1587	P-322	943	6.0	9.94	PVC	0.01	43	43	
285	P-43	141	6.0	9.94	PVC	0.00	43	43	
1958	P-537	185	8.0	11.19	PVC	0.00	48	48	
1735	P-407	577	8.0	9.63	PVC	0.00	45	45	
946	P-155	320	8.0	-25.87	PVC	0.01	45	45	
1865	P-485	111	8.0	-25.87	PVC	0.00	45	45	
2402	P-770	532	6.0	7.35	PVC	0.00	47	47	
3171	P-290	393	8.0	8.80	PVC	0.00	44	44	
3174	P-291(1)	275	8.0	8.80	PVC	0.00	44	44	
3178	P-289(2)	269	8.0	8.80	PVC	0.00	44	44	
2286	P-710	1,168	8.0	7.86	PVC	0.00	40	40	
2833	P-970	487	6.0	-9.15	PVC	0.00	45	45	
763	P-115	311	8.0	5.70	PVC	0.00	48	48	
2781	P-942	382	6.0	6.46	PVC	0.00	42	42	
3206	P-340(1)	71	8.0	11.18	PVC	0.00	44	44	
1576	P-315	173	8.0	-46.16	PVC	0.01	46	46	
1573	P-313	136	6.0	-46.16	PVC	0.03	46	46	
2543	P-845	995	8.0	0.00	PVC	0.00	44	44	
2569	P-858	323	8.0	0.00	PVC	0.00	44	44	
2571	P-859	683	8.0	0.00	PVC	0.00	44	44	
2573	P-860	267	8.0	0.00	PVC	0.00	44	44	
2575	P-861	412	8.0	0.00	PVC	0.00	44	44	
2577	P-862	196	8.0	0.00	PVC	0.00	44	44	
2580	P-864	154	8.0	0.00	PVC	0.00	44	44	
1010	P-164	710	8.0	0.00	PVC	0.00	45	45	
1875	P-493	387	8.0	0.00	PVC	0.00	45	45	
2561	P-855	248	8.0	0.00	PVC	0.00	44	44	
2585	P-867	217	8.0	0.00	PVC	0.00	44	44	

FlexTable: Pipe Table
Current Time: 19.00 hours

ID	Label	Length (Scaled) (ft)	Diameter (in)	Flow (gpm)	Material	Headloss (ft)	Pressure (Stop) (psi)	Pressure (Start) (psi)	Notes
2549	P-849	141	8.0	0.00	PVC	0.00	44	44	
2551	P-850	245	8.0	0.00	PVC	0.00	44	44	
2555	P-851	936	8.0	0.00	PVC	0.00	44	44	
2547	P-848	293	8.0	0.00	PVC	0.00	44	44	
2541	P-844	293	8.0	0.00	PVC	0.00	44	44	
2546	P-847	998	8.0	0.00	PVC	0.00	44	44	
2563	P-856	177	8.0	0.00	PVC	0.00	44	44	
2565	P-857	1,248	8.0	0.00	PVC	0.00	44	44	
2579	P-863	295	8.0	0.00	PVC	0.00	44	44	
2586	P-868	156	8.0	0.00	PVC	0.00	44	44	
2581	P-865	1,098	8.0	0.00	PVC	0.00	44	44	
2706	P-922	187	6.0	5.68	PVC	0.00	45	45	
1496	P-275	524	8.0	14.01	PVC	0.00	45	45	
2007	P-569	845	6.0	0.00	PVC	0.00	39	39	
247	P-31	162	6.0	-8.13	PVC	0.00	42	42	
881	P-139	158	6.0	-8.13	PVC	0.00	42	42	
2028	P-583	212	6.0	-8.13	PVC	0.00	42	42	
2584	P-866	117	8.0	0.00	PVC	0.00	44	44	
3234	P-234(2)	46	12.0	0.00	PVC	0.00	47	47	
2061	P-604	571	8.0	0.00	PVC	0.00	51	51	
1426	P-235	31	12.0	0.00	PVC	0.00	47	47	
1501	P-278	301	6.0	0.00	PVC	0.00	45	45	
1861	P-481	67	6.0	0.00	PVC	0.00	47	47	
2344	P-741	1,200	8.0	0.00	PVC	0.00	46	46	
2448	P-796	72	8.0	0.00	PVC	0.00	45	45	
803	P-123	69	6.0	0.00	PVC	0.00	47	47	
1406	P-224	660	10.0	0.00	PVC	0.00	45	45	
304	P-50	195	6.0	0.00	PVC	0.00	47	47	
310	P-51	337	8.0	0.00	PVC	0.00	45	45	
1862	P-482	538	6.0	0.00	PVC	0.00	47	47	
262	P-35	135	6.0	0.00	PVC	0.00	40	40	
213	P-23	95	6.0	0.00	PVC	0.00	46	46	
3407	P-89(2)	497	6.0	0.00	PVC	0.00	46	46	
407	P-72	396	6.0	0.00	PVC	0.00	48	48	
2702	P-919	109	6.0	0.00	PVC	0.00	46	46	
2307	P-718	154	8.0	0.00	PVC	0.00	40	40	
777	P-117	68	8.0	0.00	PVC	0.00	52	52	
1868	P-488	56	8.0	0.00	PVC	0.00	45	45	
3095	P-263(2)	122	12.0	0.00	Ductile Iron	0.00	45	45	
3534	P-399	70	8.0	0.00	PVC	0.00	38	38	
854	P-131	107	8.0	0.00	PVC	0.00	44	44	
3489	P-371	56	8.0	0.00	PVC	0.00	46	46	
1172	P-188	1,074	6.0	0.00	PVC	0.00	52	52	
2290	P-713	149	10.0	0.00	PVC	0.00	40	40	
2510	P-829	193	8.0	0.00	PVC	0.00	45	45	
2444	P-794	181	8.0	0.00	PVC	0.00	45	45	
2508	P-828	509	8.0	0.00	PVC	0.00	45	45	
1221	P-193	1,271	8.0	0.00	PVC	0.00	44	44	
2506	P-827	477	8.0	0.00	PVC	0.00	45	45	
2446	P-795	449	8.0	0.00	PVC	0.00	45	45	
2001	P-564	332	6.0	0.00	PVC	0.00	42	42	
722	P-107	36	8.0	0.00	PVC	0.00	48	48	
2430	P-787	116	8.0	0.00	PVC	0.00	45	45	
840	P-129	122	8.0	0.00	PVC	0.00	45	45	
180	P-17	33	6.0	0.00	PVC	0.00	47	47	
2517	P-832	116	8.0	0.00	PVC	0.00	45	45	
2450	P-797	158	8.0	0.00	PVC	0.00	45	45	
2527	P-837	146	8.0	0.00	PVC	0.00	45	45	
910	P-148	188	8.0	0.00	PVC	0.00	47	47	
3493	P-372	314	8.0	0.00	PVC	0.00	46	46	
253	P-32	131	6.0	0.00	PVC	0.00	40	40	
341	P-58	266	6.0	0.00	PVC	0.00	47	47	
291	P-45	169	6.0	0.00	PVC	0.00	43	43	
1720	P-398	120	6.0	0.00	PVC	0.00	46	46	
2372	P-755	280	6.0	0.00	PVC	0.00	45	45	
244	P-30	121	6.0	0.00	PVC	0.00	46	46	
3601	P-348(2)(1)	1,711	6.0	0.00	PVC	0.00	45	45	
3596	P-348(1)	1,175	6.0	0.00	PVC	0.00	45	45	
2339	P-738	534	6.0	0.00	PVC	0.00	44	44	
3436	P-350	1,304	8.0	0.00	PVC	0.00	41	41	
487	P-85	754	6.0	0.00	PVC	0.00	45	45	
481	P-83	648	6.0	0.00	PVC	0.00	42	42	
1992	P-557	243	6.0	0.00	PVC	0.00	41	41	
500	P-87	691	6.0	0.00	PVC	0.00	46	46	
1436	P-240	354	6.0	0.00	PVC	0.00	47	47	
1748	P-415	286	6.0	0.00	Asbestos Cement	0.00	45	45	
1434	P-239	206	6.0	0.00	PVC	0.00	47	47	
344	P-59	263	6.0	0.00	PVC	0.00	45	45	
675	P-102	2,030	6.0	0.00	PVC	0.00	46	46	
1662	P-365	132	6.0	0.00	PVC	0.00	45	45	
1394	P-219	464	6.0	0.00	PVC	0.00	50	50	
2070	P-606	595	6.0	0.00	PVC	0.00	46	46	
2060	P-603	661	6.0	0.00	PVC	0.00	51	51	
547	P-95	1,022	6.0	0.00	PVC	0.00	45	45	

FlexTable: Pipe Table
Current Time: 19.00 hours

ID	Label	Length (Scaled) (ft)	Diameter (in)	Flow (gpm)	Material	Headloss (ft)	Pressure (Stop) (psi)	Pressure (Start) (psi)	Notes
2002	P-565	367	6.0	0.00	PVC	0.00	42	42	
2370	P-754	284	6.0	0.00	PVC	0.00	45	45	
503	P-88	657	6.0	0.00	PVC	0.00	44	44	
3406	P-89(1)	216	6.0	0.00	PVC	0.00	46	46	
1668	P-369	321	6.0	0.00	PVC	0.00	45	45	
2110	P-637	449	6.0	0.00	PVC	0.00	46	46	
282	P-42	90	6.0	0.00	PVC	0.00	45	45	
395	P-70	495	6.0	0.00	PVC	0.00	49	49	
1502	P-279	334	6.0	0.00	PVC	0.00	45	45	
2106	P-634	329	6.0	0.00	PVC	0.00	45	45	
1796	P-440	1,567	8.0	0.00	PVC	0.00	38	38	
2308	P-719	146	8.0	0.00	PVC	0.00	40	40	
2830	P-968	597	8.0	0.00	PVC	0.00	45	45	
271	P-38	136	6.0	0.00	PVC	0.00	40	40	
1590	P-324	307	6.0	0.00	PVC	0.00	43	43	
318	P-54	216	6.0	0.00	PVC	0.00	42	42	
216	P-24	133	6.0	0.00	PVC	0.00	45	45	
2211	P-695	205	6.0	0.00	PVC	0.00	47	47	
288	P-44	171	6.0	0.00	PVC	0.00	43	43	
1482	P-267	111	6.0	0.00	PVC	0.00	46	46	
2624	P-885	167	8.0	0.00	PVC	0.00	44	44	
280	P-41	111	6.0	0.00	PVC	0.00	41	41	
259	P-34	182	6.0	0.00	PVC	0.00	45	45	
758	P-113	171	8.0	0.00	PVC	0.00	40	40	
321	P-55	223	6.0	0.00	PVC	0.00	47	47	
872	P-135	128	8.0	0.00	PVC	0.00	45	45	
709	P-104	140	8.0	0.00	PVC	0.00	40	40	
210	P-22	79	6.0	0.00	PVC	0.00	46	46	
235	P-28	111	6.0	0.00	PVC	0.00	42	42	
1588	P-323	34	6.0	0.00	PVC	0.00	43	43	
2303	P-717	172	8.0	0.00	PVC	0.00	40	40	
2522	P-834	118	8.0	0.00	PVC	0.00	45	45	
706	P-103	31	8.0	0.00	PVC	0.00	45	45	
195	P-21	56	8.0	0.00	PVC	0.00	47	47	
1432	P-237	82	10.0	0.00	PVC	0.00	45	45	
869	P-134	128	8.0	0.00	PVC	0.00	45	45	
1755	P-419	394	8.0	0.00	PVC	0.00	45	45	
3371	P-374(2)	461	8.0	0.00	PVC	0.00	45	45	
57	P-3	102	8.0	0.00	PVC	0.00	45	45	
189	P-20	51	6.0	0.00	PVC	0.00	46	46	
2202	P-691	156	6.0	0.00	PVC	0.00	42	42	
2004	P-567	165	6.0	0.00	PVC	0.00	42	42	
238	P-29	391	6.0	0.00	PVC	0.00	47	47	
277	P-40	120	6.0	0.00	PVC	0.00	43	43	
296	P-47	159	6.0	0.00	PVC	0.00	42	42	
3468	P-906(2)	620	6.0	0.00	PVC	0.00	46	46	
3602	P-348(2)(2)	260	6.0	0.00	PVC	0.00	45	45	
1185	P-190	1,097	8.0	0.00	PVC	0.00	40	40	
160	P-14	51	6.0	0.00	PVC	0.00	46	46	
1447	P-245	1,579	6.0	0.00	PVC	0.00	40	40	
2003	P-566	327	6.0	0.00	PVC	0.00	42	42	
222	P-25	97	6.0	0.00	PVC	0.00	47	47	
1438	P-241	97	6.0	0.00	PVC	0.00	47	47	
431	P-78	420	6.0	0.00	PVC	0.00	47	47	
463	P-81	599	6.0	0.00	PVC	0.00	47	47	
3565	P-307(2)(2)	92	8.0	0.00	PVC	0.00	44	44	
294	P-46	144	6.0	0.00	PVC	0.00	46	46	
410	P-73	400	6.0	0.00	PVC	0.00	48	48	
1571	P-312	28	6.0	0.00	PVC	0.00	46	46	
1805	P-445	764	8.0	0.00	PVC	0.00	38	38	
3370	P-374(1)	440	8.0	0.00	PVC	0.00	45	45	
2216	P-698	139	6.0	0.00	PVC	0.00	43	43	
2217	P-699	141	6.0	0.00	PVC	0.00	43	43	
2346	P-742	145	8.0	0.00	PVC	0.00	46	46	
3146	P-282	401	8.0	0.00	PVC	0.00	44	44	
943	P-154	251	8.0	0.00	PVC	0.00	43	43	
183	P-18	36	6.0	0.00	PVC	0.00	47	47	
3150	P-283	747	8.0	0.00	PVC	0.00	44	44	
2348	P-743	145	8.0	0.00	PVC	0.00	46	46	
917	P-149	201	8.0	0.00	PVC	0.00	45	45	
3142	P-280	287	8.0	0.00	PVC	0.00	44	44	
3144	P-281	258	8.0	0.00	PVC	0.00	44	44	
3140	P-279	254	8.0	0.00	PVC	0.00	44	44	
1407	P-225	48	6.0	0.00	PVC	0.00	45	45	
2497	P-823	182	8.0	0.00	PVC	0.00	45	45	
2501	P-825	474	8.0	0.00	PVC	0.00	45	45	
2512	P-830	53	8.0	0.00	PVC	0.00	45	45	
39	P-1	71	8.0	0.00	PVC	0.00	45	45	
1441	P-242	56	6.0	0.00	PVC	0.00	47	47	
1583	P-320	66	6.0	0.00	PVC	0.00	47	47	
163	P-15	49	6.0	0.00	PVC	0.00	46	46	
2059	P-602	77	6.0	0.00	PVC	0.00	51	51	
2301	P-716	497	8.0	0.00	PVC	0.00	40	40	
274	P-39	120	6.0	0.00	PVC	0.00	43	43	

FlexTable: Pipe Table
Current Time: 19.00 hours

ID	Label	Length (Scaled) (ft)	Diameter (in)	Flow (gpm)	Material	Headloss (ft)	Pressure (Stop) (psi)	Pressure (Start) (psi)	Notes
2005	P-568	227	6.0	0.00	PVC	0.00	39	39	
1949	P-534	701	6.0	0.00	PVC	0.00	49	49	
860	P-132	123	6.0	0.00	PVC	0.00	44	44	
2432	P-768	537	8.0	0.00	PVC	0.00	45	45	
1993	P-558	412	6.0	0.00	PVC	0.00	42	42	
2861	P-987	1,201	6.0	0.00	Asbestos Cement	0.00	49	49	
1673	P-373	224	8.0	0.00	PVC	0.00	45	45	
863	P-133	123	6.0	0.00	PVC	0.00	44	44	
1411	P-227	362	6.0	0.00	PVC	0.00	49	49	
268	P-37	117	6.0	0.00	PVC	0.00	43	43	
1817	P-455	312	8.0	0.00	PVC	0.00	40	40	
1841	P-468	480	8.0	0.00	PVC	0.00	40	40	
232	P-27	111	6.0	0.00	PVC	0.00	46	46	
1331	P-201	55	6.0	0.00	PVC	0.00	49	49	
1876	P-494	128	8.0	0.00	PVC	0.00	45	45	
2000	P-563	125	6.0	0.00	PVC	0.00	42	42	
1760	P-421	291	8.0	0.00	PVC	0.00	45	45	
1757	P-420	300	8.0	0.00	PVC	0.00	45	45	
808	P-125	74	8.0	0.00	PVC	0.00	45	45	
2091	P-622	92	8.0	0.00	PVC	0.00	46	46	
1867	P-487	41	8.0	0.00	PVC	0.00	45	45	
819	P-127	79	8.0	0.00	PVC	0.00	45	45	
2559	P-854	632	8.0	0.00	PVC	0.00	44	44	
299	P-48	156	6.0	0.00	PVC	0.00	47	47	
2703	P-920	501	6.0	0.00	PVC	0.00	46	46	
2009	P-570	542	6.0	0.00	PVC	0.00	39	39	
1967	P-542	151	8.0	0.00	PVC	0.00	48	48	
2545	P-846	186	8.0	0.00	PVC	0.00	44	44	
1874	P-492	234	8.0	0.00	PVC	0.00	45	45	
1994	P-559	388	6.0	0.00	PVC	0.00	42	42	
887	P-142	171	8.0	0.00	PVC	0.00	51	51	
3417	P-11(1)	89	12.0	0.00	PVC	0.00	45	45	
1412	P-228	255	6.0	0.00	PVC	0.00	49	49	
3421	P-11(2)(1)	262	12.0	0.00	PVC	0.00	45	45	
1872	P-491	328	8.0	0.00	PVC	0.00	45	45	
1495	P-274	321	8.0	0.00	PVC	0.00	45	45	
3422	P-11(2)(2)	49	12.0	0.00	PVC	0.00	45	45	
811	P-126	76	8.0	0.00	PVC	0.00	51	51	
302	P-49	151	8.0	0.00	PVC	0.00	45	45	
326	P-56	245	6.0	0.00	PVC	0.00	39	39	
1497	P-276	162	8.0	-14.01	PVC	0.00	45	45	
2797	P-950	185	6.0	-0.26	PVC	0.00	42	42	
1917	P-516	197	8.0	-33.36	PVC	0.01	45	45	
3575	P-307(2)(1)(1)	462	8.0	-81.02	PVC	0.06	44	44	
1804	P-444	268	8.0	-2.17	PVC	0.00	38	38	
1481	P-266	57	6.0	37.40	PVC	0.01	46	46	
335	P-57	253	6.0	37.40	PVC	0.03	46	46	
1733	P-405	250	6.0	-6.52	PVC	0.00	45	45	
1736	P-408	173	8.0	-6.52	PVC	0.00	45	45	
1910	P-513	852	8.0	-13.83	PVC	0.00	45	45	
3179	P-292	401	6.0	-6.53	PVC	0.00	44	44	
2622	P-884	177	8.0	-6.50	PVC	0.00	44	44	
2287	P-711	35	8.0	-6.03	PVC	0.00	40	40	
765	P-116	308	8.0	-8.99	PVC	0.00	48	48	
2282	P-708	1,160	8.0	-8.45	PVC	0.00	40	40	
401	P-71	382	6.0	-9.50	PVC	0.00	46	46	
1678	P-375	161	8.0	25.87	PVC	0.00	45	45	
2197	P-688	920	10.0	64.31	PVC	0.03	45	45	
2493	P-821	756	10.0	64.31	PVC	0.02	45	45	
2838	P-973	613	6.0	-9.13	PVC	0.01	45	45	
1767	P-423	330	10.0	-108.46	PVC	0.03	45	45	
3129	P-276	212	8.0	-10.00	PVC	0.00	45	45	
1592	P-325	376	6.0	-9.94	PVC	0.00	43	43	
3167	P-338(2)	1,171	6.0	-25.48	PVC	0.07	44	44	
1616	P-339	428	6.0	-25.48	PVC	0.03	44	44	
1775	P-427	316	8.0	-10.07	PVC	0.00	38	38	
3186	P-293	401	6.0	-10.93	PVC	0.01	44	44	
2433	P-789	289	8.0	-2.08	PVC	0.00	45	45	
3068	P-707(1)	46	8.0	-11.76	PVC	0.00	40	40	
3132	P-266(1)(2)	157	8.0	-12.89	PVC	0.00	45	45	
1866	P-486	33	8.0	-46.82	PVC	0.00	45	45	
1672	P-372	153	8.0	-46.82	PVC	0.01	45	45	
2618	P-881	910	8.0	-12.31	PVC	0.00	44	44	
2368	P-753	222	8.0	-12.37	PVC	0.00	46	46	
2823	P-964	463	6.0	-6.65	PVC	0.00	45	45	
476	P-82	630	6.0	-11.31	PVC	0.01	42	42	
3076	P-257	1,161	8.0	-13.77	PVC	0.01	40	40	
3079	P-255(2)	43	8.0	-13.77	PVC	0.00	40	40	
2195	P-687	671	8.0	-11.59	PVC	0.00	41	41	
2200	P-689	513	8.0	-24.62	PVC	0.01	45	45	
2201	P-690	762	8.0	-24.62	PVC	0.01	45	45	
2604	P-873	902	8.0	-14.56	PVC	0.01	44	44	
416	P-75	405	6.0	-8.38	PVC	0.00	42	42	

FlexTable: Pipe Table
Current Time: 19.00 hours

ID	Label	Length (Scaled) (ft)	Diameter (in)	Flow (gpm)	Material	Headloss (ft)	Pressure (Stop) (psi)	Pressure (Start) (psi)	Notes
413	P-74	405	6.0	-13.60	PVC	0.01	42	42	
919	P-150	165	8.0	-16.16	PVC	0.00	45	45	
1063	P-168	615	6.0	-16.16	PVC	0.02	45	45	
1734	P-406	113	6.0	-16.16	PVC	0.00	45	45	
3106	P-266(2)	291	8.0	-16.81	PVC	0.00	45	45	
2427	P-785	517	8.0	-3.13	PVC	0.00	45	45	
3193	P-294	399	6.0	-18.25	PVC	0.01	44	44	
2499	P-824	272	8.0	-29.47	PVC	0.01	45	45	
2503	P-826	137	8.0	-29.47	PVC	0.00	45	45	
2524	P-835	136	8.0	-29.47	PVC	0.00	45	45	
2525	P-836	195	8.0	-29.47	PVC	0.00	45	45	
2520	P-833	150	8.0	-29.47	PVC	0.00	45	45	
2515	P-831	236	8.0	-29.47	PVC	0.00	45	45	
1647	P-357	311	6.0	-27.19	PVC	0.02	46	46	
2529	P-838	159	8.0	17.27	PVC	0.00	45	45	
1366	P-204	761	8.0	-20.56	PVC	0.01	44	44	
1602	P-331	656	6.0	-20.30	PVC	0.03	43	43	
2707	P-923	223	6.0	-14.76	PVC	0.01	45	45	
386	P-68	300	6.0	-26.90	PVC	0.02	46	46	
2439	P-792	255	8.0	-14.51	PVC	0.00	45	45	
1077	P-171	800	8.0	-36.05	PVC	0.02	45	45	
1752	P-417	602	8.0	-36.05	PVC	0.02	45	45	
1809	P-449	268	8.0	-23.90	PVC	0.00	38	38	
1648	P-358	52	6.0	10.22	PVC	0.00	46	46	
1646	P-356	1,849	6.0	10.22	PVC	0.02	46	46	
1715	P-394	597	8.0	-29.49	PVC	0.01	45	45	
2595	P-871	1,064	8.0	-24.25	PVC	0.02	44	44	
2620	P-882	301	8.0	-24.25	PVC	0.00	44	44	
3119	P-270	360	8.0	-26.99	PVC	0.01	45	45	
3121	P-271	151	8.0	-26.99	PVC	0.00	45	45	
1046	P-167	488	8.0	-24.62	PVC	0.01	40	40	
1812	P-452	149	8.0	-26.08	PVC	0.00	38	38	
3078	P-256(1)	188	8.0	-26.38	PVC	0.00	40	40	
3403	P-600(1)	245	6.0	-55.60	PVC	0.07	44	44	
3404	P-600(2)	216	6.0	-55.60	PVC	0.06	44	44	
70	P-5	692	10.0	34.84	PVC	0.01	45	45	
78	P-7	1,210	10.0	34.84	PVC	0.01	45	45	
2494	P-822	110	10.0	34.84	PVC	0.00	45	45	
2419	P-782	60	8.0	-5.21	PVC	0.00	45	45	
2426	P-784	138	8.0	-5.21	PVC	0.00	45	45	
2437	P-790	748	8.0	-5.21	PVC	0.00	45	45	
1960	P-538	321	8.0	-26.68	PVC	0.01	48	48	
3586	P-957(1)	1,022	6.0	-27.39	PVC	0.07	40	40	
3587	P-957(2)	568	6.0	-27.39	PVC	0.04	40	40	
1607	P-333	498	6.0	-27.39	PVC	0.04	40	40	
365	P-63	460	8.0	10.51	PVC	0.00	45	45	
2784	P-944	264	8.0	-28.33	PVC	0.01	45	45	
1915	P-515	273	8.0	-38.57	PVC	0.01	45	45	
2798	P-951	1,015	6.0	-27.89	PVC	0.08	42	42	
2530	P-839	140	8.0	11.10	PVC	0.00	45	45	
1454	P-249	634	8.0	11.10	PVC	0.00	45	45	
2175	P-678	1,845	8.0	-36.79	PVC	0.06	45	45	
2246	P-704	256	8.0	-29.37	PVC	0.01	40	40	
2251	P-705	47	8.0	-29.37	PVC	0.00	40	40	
2401	P-769	393	6.0	-36.77	PVC	0.05	47	47	
3131	P-266(1)(1)	198	8.0	-31.94	PVC	0.00	45	45	
1968	P-543	325	8.0	-29.97	PVC	0.01	48	48	
2621	P-883	378	8.0	-30.76	PVC	0.01	44	44	
1770	P-425	651	10.0	-191.81	PVC	0.14	45	45	
3072	P-255	64	8.0	-34.24	PVC	0.00	40	40	
3123	P-272	193	8.0	-37.00	PVC	0.01	45	45	
1921	P-518	244	8.0	-60.10	PVC	0.02	45	45	
2455	P-800	434	8.0	-42.43	PVC	0.02	45	45	
2457	P-801	173	8.0	-42.43	PVC	0.01	45	45	
1904	P-511	270	8.0	1.86	PVC	0.00	45	45	
2975	P-231	32	10.0	-42.53	PVC	0.00	42	42	
1962	P-539	308	8.0	-35.67	PVC	0.01	48	48	
3081	P-259	239	8.0	-36.02	PVC	0.01	40	40	
1969	P-544	309	6.0	-37.25	PVC	0.04	48	48	
2284	P-709	49	8.0	-36.20	PVC	0.00	40	40	
893	P-144	308	8.0	-37.87	PVC	0.01	48	48	
2461	P-803	1,355	8.0	-26.74	PVC	0.02	45	45	
1973	P-546	320	8.0	-36.96	PVC	0.01	48	48	
2252	P-706	191	8.0	-37.40	PVC	0.01	40	40	
2605	P-874	181	8.0	-37.37	PVC	0.01	44	44	
2095	P-626	910	6.0	-0.73	PVC	0.00	46	46	
1718	P-397	900	8.0	-42.28	PVC	0.04	45	45	
1870	P-490	307	10.0	-121.86	PVC	0.03	45	45	
3117	P-265(2)	211	8.0	-41.94	PVC	0.01	45	45	
2477	P-812	193	8.0	-33.65	PVC	0.01	46	46	
1367	P-205	118	8.0	-44.92	PVC	0.01	44	44	
1408	P-226	278	6.0	-7.40	PVC	0.00	45	45	
3071	P-254	236	8.0	-42.69	PVC	0.01	40	40	
1966	P-541	322	8.0	-42.66	PVC	0.01	48	48	

FlexTable: Pipe Table
Current Time: 19.00 hours

ID	Label	Length (Scaled) (ft)	Diameter (in)	Flow (gpm)	Material	Headloss (ft)	Pressure (Stop) (psi)	Pressure (Start) (psi)	Notes
1810	P-450	256	8.0	-44.82	PVC	0.01	38	38	
2842	P-976	572	6.0	-31.48	PVC	0.05	45	45	
1955	P-536	321	6.0	-48.44	PVC	0.07	48	48	
1665	P-368	320	8.0	-45.48	PVC	0.01	45	45	
1974	P-547	317	8.0	-45.95	PVC	0.01	48	48	
3467	P-906(1)	1,373	6.0	27.60	PVC	0.10	46	46	
1601	P-330	70	6.0	-48.54	PVC	0.01	43	43	
1669	P-370	653	8.0	-51.16	PVC	0.04	45	45	
2158	P-664	127	8.0	-32.21	PVC	0.00	45	45	
1065	P-169	771	8.0	-51.36	PVC	0.04	45	45	
1919	P-517	257	8.0	-84.71	PVC	0.04	45	45	
1922	P-519	112	8.0	-84.71	PVC	0.02	45	45	
2438	P-791	1,028	8.0	-19.72	PVC	0.01	45	45	
2490	P-820	1,804	8.0	-19.72	PVC	0.02	45	45	
2469	P-807	332	8.0	-63.35	PVC	0.03	45	45	
3082	P-260	298	8.0	-49.79	PVC	0.02	40	40	
2320	P-725	25	8.0	-49.79	PVC	0.00	40	40	
1506	P-280	260	8.0	-50.02	PVC	0.01	40	40	
2318	P-724	77	8.0	-50.02	PVC	0.00	40	40	
368	P-64	337	6.0	-43.87	PVC	0.06	46	46	
3084	P-941(1)	331	8.0	-51.20	PVC	0.02	40	40	
2467	P-806	1,352	8.0	-54.97	PVC	0.09	45	45	
2453	P-799	238	8.0	-37.40	PVC	0.01	45	45	
2442	P-793	687	8.0	-37.40	PVC	0.02	45	45	
3125	P-273	169	8.0	-56.04	PVC	0.01	45	45	
2176	P-679	754	8.0	-72.84	PVC	0.08	45	45	
1232	P-194	1,264	8.0	-72.84	PVC	0.14	45	45	
1764	P-422	101	8.0	-72.84	PVC	0.01	45	45	
1908	P-512	274	8.0	-46.03	PVC	0.01	45	45	
2030	P-585	202	6.0	-56.79	PVC	0.06	42	42	
1418	P-232	792	6.0	-48.65	PVC	0.17	42	42	
993	P-162	360	8.0	-53.61	PVC	0.02	46	46	
2014	P-573	521	6.0	-78.82	PVC	0.27	42	42	
434	P-79	392	6.0	-55.13	PVC	0.10	46	46	
1563	P-307	516	8.0	-56.38	PVC	0.04	45	45	
1565	P-308	319	8.0	-56.38	PVC	0.02	45	45	
1566	P-309	285	8.0	-56.38	PVC	0.02	45	45	
1652	P-359	88	6.0	-27.91	PVC	0.01	46	46	
1469	P-258	30	8.0	21.62	PVC	0.00	45	45	
2078	P-612	31	8.0	-57.38	PVC	0.00	46	46	
2116	P-641	493	8.0	-57.38	PVC	0.03	46	46	
1670	P-371	347	8.0	-97.98	PVC	0.07	45	45	
1716	P-395	923	8.0	-64.58	PVC	0.08	45	45	
2210	P-694	231	6.0	-59.88	PVC	0.07	47	47	
1489	P-270	320	10.0	-35.15	PVC	0.00	45	45	
1492	P-273	147	10.0	-35.15	PVC	0.00	45	45	
2969	P-271(1)	372	10.0	-35.15	PVC	0.00	45	45	
1373	P-206	658	8.0	-65.48	PVC	0.06	44	44	
2096	P-627	123	6.0	9.49	PVC	0.00	46	46	
3430	P-347	326	6.0	-63.39	PVC	0.11	45	45	
3198	P-296	385	8.0	-65.81	PVC	0.04	44	44	
2943	P-6(1)	721	10.0	-43.87	PVC	0.01	42	41	
2944	P-6(2)	173	10.0	-43.87	PVC	0.00	42	42	
1998	P-561	513	6.0	-43.87	PVC	0.09	42	42	
1996	P-560	482	6.0	-43.87	PVC	0.08	42	42	
350	P-60	265	6.0	-24.01	PVC	0.02	47	47	
3113	P-263(1)(2)	177	12.0	-68.94	Ductile Iron	0.00	45	45	
3097	P-264	111	8.0	-68.94	PVC	0.01	45	45	
3116	P-265(1)	398	8.0	-68.94	PVC	0.04	45	45	
2864	P-990	179	8.0	-33.57	PVC	0.00	49	49	
2600	P-872	1,530	8.0	-68.13	PVC	0.15	44	44	
2627	P-887	334	8.0	-68.13	PVC	0.03	44	44	
1655	P-361	278	6.0	-46.77	PVC	0.05	46	46	
970	P-158	252	8.0	-70.11	PVC	0.03	46	46	
3274	P-892(2)(1)	53	6.0	-50.08	PVC	0.01	42	42	
3275	P-892(2)(2)	1,362	6.0	-50.08	PVC	0.30	42	42	
1577	P-316	474	8.0	-73.79	PVC	0.05	46	46	
1580	P-317	889	8.0	-73.79	PVC	0.10	46	46	
2178	P-680	473	8.0	-104.56	PVC	0.10	46	46	
1717	P-396	53	8.0	-77.37	PVC	0.01	45	45	
2827	P-967	326	6.0	-59.64	PVC	0.10	45	45	
1567	P-310	161	8.0	-72.63	PVC	0.02	45	45	
1965	P-540	124	8.0	-72.63	PVC	0.01	48	48	
2025	P-581	274	8.0	-78.75	PVC	0.03	42	42	
1744	P-412	813	6.0	-81.47	PVC	0.44	45	45	
635	P-101	1,649	6.0	-82.17	PVC	0.92	46	45	
1913	P-514	288	8.0	-70.77	PVC	0.03	45	45	
1986	P-553	137	6.0	-70.86	PVC	0.06	41	41	
3220	P-302	719	6.0	-70.86	PVC	0.30	41	41	
3222	P-303	904	6.0	-70.86	PVC	0.38	41	41	
3226	P-304	346	6.0	-70.86	PVC	0.15	41	41	
2174	P-677	246	8.0	-21.41	PVC	0.00	45	45	
1925	P-521	863	8.0	-58.39	PVC	0.06	46	46	
1797	P-441	1,010	8.0	-77.07	PVC	0.12	38	38	

FlexTable: Pipe Table
Current Time: 19.00 hours

ID	Label	Length (Scaled) (ft)	Diameter (in)	Flow (gpm)	Material	Headloss (ft)	Pressure (Stop) (psi)	Pressure (Start) (psi)	Notes
1811	P-451	33	8.0	-77.07	PVC	0.00	38	38	
1779	P-428	211	8.0	-77.07	PVC	0.03	38	38	
2826	P-966	646	8.0	-81.55	PVC	0.09	45	45	
3337	P-363(1)	477	6.0	-54.82	PVC	0.13	46	46	
3338	P-363(2)	415	6.0	-54.82	PVC	0.11	46	46	
1654	P-360	44	6.0	-54.82	PVC	0.01	46	46	
2394	P-765	111	6.0	-81.77	PVC	0.06	47	47	
2405	P-772	532	6.0	-81.77	PVC	0.29	47	47	
521	P-90	1,047	6.0	-112.72	PVC	1.05	46	46	
1491	P-272	535	10.0	-78.63	PVC	0.02	45	45	
1365	P-203	249	8.0	-85.85	PVC	0.04	44	44	
3158	P-961(1)	1,510	6.0	-86.76	Asbestos Cement	1.06	46	45	
1972	P-545	204	8.0	-83.82	PVC	0.03	48	48	
2836	P-972	212	6.0	-77.59	PVC	0.11	46	46	
2026	P-582	314	8.0	-90.07	PVC	0.05	42	42	
2381	P-760	525	6.0	-89.11	PVC	0.34	47	46	
2393	P-764	263	6.0	-89.11	PVC	0.17	47	47	
2452	P-798	253	8.0	-79.83	PVC	0.03	45	45	
761	P-114	50	8.0	-99.22	PVC	0.01	42	42	
2016	P-574	86	8.0	-99.22	PVC	0.02	42	42	
1405	P-223	1,788	10.0	-0.31	PVC	0.00	45	45	
2813	P-958	808	6.0	-87.24	PVC	0.50	45	45	
1897	P-506	29	10.0	-148.15	PVC	0.00	46	46	
1899	P-507	367	10.0	-148.15	PVC	0.05	46	46	
1901	P-508	377	10.0	-148.15	PVC	0.05	46	46	
2172	P-676	577	8.0	-37.57	PVC	0.02	45	45	
2839	P-974	642	6.0	-90.76	PVC	0.43	46	45	
1546	P-298	971	6.0	-93.29	PVC	0.68	42	42	
2058	P-986	221	6.0	-93.14	PVC	0.15	42	42	
1472	P-261	295	6.0	-63.61	PVC	0.10	45	45	
1477	P-263	517	6.0	-87.09	PVC	0.32	46	46	
1923	P-520	231	8.0	-93.63	PVC	0.04	45	45	
2845	P-978	142	8.0	-92.85	PVC	0.02	45	45	
2632	P-888	186	6.0	-121.72	PVC	0.21	42	42	
1863	P-483	814	6.0	-94.12	PVC	0.58	48	48	
1528	P-287	371	8.0	-104.53	PVC	0.08	41	41	
2334	P-735	63	8.0	-104.53	PVC	0.01	41	41	
1544	P-297	438	6.0	-99.75	PVC	0.35	42	42	
1543	P-296	1,015	6.0	-100.01	PVC	0.81	42	42	
425	P-77	419	6.0	-54.46	PVC	0.11	45	45	
1471	P-260	48	6.0	-54.46	PVC	0.01	45	45	
3008	P-954(1)	505	8.0	-99.81	PVC	0.10	40	40	
3009	P-954(2)	571	8.0	-99.81	PVC	0.11	40	40	
2463	P-804	649	8.0	-118.32	PVC	0.17	45	45	
2019	P-576	316	8.0	-103.66	PVC	0.07	42	42	
2022	P-578	316	8.0	-107.60	PVC	0.07	42	42	
3127	P-274	646	8.0	-109.84	PVC	0.15	45	45	
3137	P-278	330	8.0	-109.84	PVC	0.08	45	45	
3088	P-86(2)	88	6.0	-110.02	PVC	0.08	45	45	
544	P-94	943	6.0	-104.87	PVC	0.82	44	44	
3360	P-378(1)	178	6.0	-129.46	PVC	0.23	45	45	
3379	P-378(2)(1)	238	6.0	-129.46	PVC	0.31	45	45	
3380	P-378(2)(2)	234	6.0	-129.46	PVC	0.30	46	45	
2479	P-813	1,167	8.0	-97.28	PVC	0.22	46	46	
2481	P-814	110	8.0	-97.28	PVC	0.02	46	46	
2487	P-817	80	8.0	-97.28	PVC	0.02	46	46	
2932	P-892(1)	325	6.0	-92.61	PVC	0.23	42	42	
2482	P-815	1,352	8.0	-98.54	PVC	0.26	46	46	
377	P-67	344	6.0	-93.27	PVC	0.24	45	45	
2987	P-955(1)	691	8.0	-112.44	PVC	0.17	40	40	
2366	P-751	384	8.0	-115.11	PVC	0.10	46	46	
1530	P-288	312	8.0	-119.55	PVC	0.09	41	41	
2020	P-577	172	8.0	-112.05	PVC	0.04	42	42	
2097	P-628	238	6.0	-116.13	PVC	0.25	46	46	
2024	P-580	314	8.0	-121.20	PVC	0.09	42	42	
2473	P-810	1,348	8.0	-131.48	PVC	0.44	46	45	
2112	P-639	478	6.0	-118.00	PVC	0.52	46	46	
3112	P-263(1)(1)	886	12.0	-126.65	Ductile Iron	0.05	45	45	
1745	P-413	1,760	8.0	-126.90	PVC	0.54	45	45	
2331	P-732	660	8.0	-115.22	PVC	0.17	41	41	
1712	P-392	69	10.0	-192.12	PVC	0.02	45	45	
1708	P-390	158	10.0	-192.12	PVC	0.04	45	45	
1709	P-391	67	10.0	-192.12	PVC	0.01	45	45	
3519	P-365(1)	51	6.0	-129.53	PVC	0.07	46	46	
3524	P-365(2)(1)	262	6.0	-129.53	PVC	0.34	46	46	
3525	P-365(2)(2)	732	6.0	-129.53	PVC	0.95	46	46	
2289	P-712	336	10.0	-126.45	PVC	0.03	40	40	
2295	P-714	1,313	8.0	-126.45	PVC	0.40	40	40	
2367	P-752	438	8.0	-127.48	PVC	0.14	46	46	
3605	P-779(1)	635	10.0	-134.73	PVC	0.07	48	48	
2180	P-682	448	8.0	-198.75	PVC	0.31	46	46	
2207	P-692	407	8.0	-198.75	PVC	0.29	46	46	
2208	P-693	233	8.0	-198.75	PVC	0.16	47	46	
2213	P-696	482	6.0	-198.75	PVC	1.38	47	47	

FlexTable: Pipe Table
Current Time: 19.00 hours

ID	Label	Length (Scaled) (ft)	Diameter (in)	Flow (gpm)	Material	Headloss (ft)	Pressure (Stop) (psi)	Pressure (Start) (psi)	Notes
1568	P-311	527	8.0	-129.01	PVC	0.17	46	45	
3401	P-337	252	6.0	-129.63	PVC	0.33	42	42	
2023	P-579	274	8.0	-132.51	PVC	0.09	42	42	
3085	P-941(2)	1,229	8.0	-137.42	PVC	0.44	40	40	
1902	P-509	297	10.0	-192.02	PVC	0.07	46	46	
2377	P-758	688	6.0	-141.93	PVC	1.05	46	46	
2379	P-759	464	6.0	-141.93	PVC	0.71	46	46	
1535	P-293	1,360	8.0	-147.16	PVC	0.55	42	41	
1536	P-294	75	8.0	-147.16	PVC	0.03	42	42	
2125	P-643	589	6.0	-158.70	PVC	1.11	46	46	
2127	P-644	190	6.0	-158.70	PVC	0.36	46	46	
1991	P-556	867	6.0	-145.77	PVC	1.39	41	41	
2341	P-739	1,338	8.0	-178.34	PVC	0.77	46	45	
2342	P-740	29	8.0	-178.34	PVC	0.02	46	46	
2327	P-730	131	8.0	-138.35	PVC	0.05	41	41	
3532	P-397	620	8.0	-138.35	PVC	0.22	41	41	
3012	P-630(1)	376	8.0	-109.28	PVC	0.09	46	46	
2847	P-979	618	6.0	-159.21	PVC	1.17	46	46	
1657	P-362	358	6.0	-101.59	PVC	0.29	46	46	
1659	P-364	670	6.0	-101.59	PVC	0.55	46	45	
1883	P-497	437	6.0	-146.13	PVC	0.71	45	45	
2312	P-721	331	6.0	-146.13	PVC	0.53	40	40	
1884	P-498	416	6.0	-146.13	PVC	0.67	45	45	
2475	P-811	416	8.0	-132.18	PVC	0.14	46	46	
1842	P-469	660	8.0	-143.04	PVC	0.25	40	40	
1887	P-501	690	10.0	-233.14	PVC	0.22	45	45	
2653	P-899	234	6.0	-132.91	PVC	0.32	47	46	
2655	P-900	71	6.0	-132.91	PVC	0.10	47	47	
2656	P-901	185	6.0	-132.91	PVC	0.25	47	47	
2403	P-771	273	6.0	-158.62	PVC	0.51	47	46	
3356	P-393(1)	346	10.0	-242.27	PVC	0.12	45	45	
3376	P-393(2)(1)	236	10.0	-242.27	PVC	0.08	45	45	
3377	P-393(2)(2)	218	10.0	-242.27	PVC	0.07	45	45	
1363	P-202	933	6.0	-164.36	PVC	1.87	47	46	
2143	P-654	471	6.0	-164.36	PVC	0.95	48	47	
2145	P-655	432	6.0	-164.36	PVC	0.87	48	48	
2146	P-656	161	6.0	-164.36	PVC	0.32	48	48	
3566	P-417	53	6.0	-107.09	PVC	0.05	44	44	
3344	P-98(1)	189	6.0	-101.94	PVC	0.16	46	46	
3349	P-98(2)(1)	333	6.0	-101.94	PVC	0.28	47	46	
3350	P-98(2)(2)	568	6.0	-101.94	PVC	0.47	47	47	
1819	P-456	367	8.0	-172.79	PVC	0.20	40	40	
2111	P-638	386	6.0	-173.13	PVC	0.85	46	46	
2788	P-946	618	6.0	-194.56	Asbestos Cement	1.70	49	49	
1137	P-180	919	8.0	-180.99	PVC	0.54	43	42	
1625	P-346	304	8.0	-157.05	PVC	0.14	44	44	
121	P-12	1,396	12.0	-180.88	PVC	0.11	40	40	
3616	P-432	300	8.0	-180.88	PVC	0.18	40	40	
3618	P-433	483	8.0	-180.88	PVC	0.29	41	40	
3622	P-434	287	8.0	-180.88	PVC	0.17	41	41	
2848	P-980	637	6.0	-192.84	PVC	1.72	47	46	
1977	P-548	625	6.0	-194.51	PVC	1.71	43	42	
2636	P-891	29	6.0	-194.88	PVC	0.08	42	42	
2296	P-715	1,339	8.0	-186.35	PVC	0.84	40	40	
533	P-92	776	6.0	-260.73	PVC	3.66	48	46	
3023	P-533(2)	240	8.0	-183.37	Asbestos Cement	0.17	49	49	
2214	P-697	455	6.0	-258.63	PVC	2.11	48	47	
1692	P-379	80	6.0	-187.41	PVC	0.20	47	47	
1693	P-380	469	6.0	-187.41	PVC	1.20	47	47	
2849	P-981	413	6.0	-187.41	PVC	1.06	48	47	
2407	P-774	119	6.0	-202.74	PVC	0.35	47	47	
1703	P-386	68	6.0	-220.22	PVC	0.23	46	46	
1704	P-387	353	6.0	-220.22	PVC	1.22	46	46	
1701	P-384	90	6.0	-220.22	PVC	0.31	46	46	
1702	P-385	330	6.0	-220.22	PVC	1.14	47	46	
1465	P-255	979	8.0	-203.75	PVC	0.72	45	45	
1466	P-256	104	6.0	-203.75	PVC	0.31	45	45	
1990	P-555	160	6.0	-189.65	PVC	0.42	42	42	
1988	P-554	124	6.0	-189.65	PVC	0.32	42	42	
3024	P-912(1)	81	6.0	-230.09	PVC	0.30	49	49	
1623	P-345	222	8.0	-195.24	PVC	0.15	44	44	
1983	P-551	170	6.0	-216.63	PVC	0.57	40	40	
1984	P-552	95	6.0	-216.63	PVC	0.32	40	40	
2010	P-571	896	6.0	-216.63	PVC	3.00	41	39	
3224	P-890(1)	466	6.0	-216.63	PVC	1.56	41	40	
1393	P-218	543	6.0	-239.03	PVC	2.18	50	49	
1746	P-414	879	8.0	-236.92	PVC	0.86	45	45	
2650	P-898	723	8.0	-146.26	PVC	0.29	47	46	
1488	P-269	228	6.0	-221.16	PVC	0.79	43	42	
1486	P-268	361	6.0	-221.16	PVC	1.26	43	43	
1631	P-349	570	6.0	-221.16	PVC	1.98	44	43	
484	P-84	675	6.0	-258.49	PVC	3.14	48	46	
1895	P-505	395	10.0	-303.67	PVC	0.21	46	46	
1683	P-376	159	6.0	-233.13	PVC	0.61	46	45	

FlexTable: Pipe Table
Current Time: 19.00 hours

ID	Label	Length (Scaled) (ft)	Diameter (in)	Flow (gpm)	Material	Headloss (ft)	Pressure (Stop) (psi)	Pressure (Start) (psi)	Notes
1684	P-377	505	6.0	-233.13	PVC	1.94	46	46	
1609	P-334	653	6.0	-234.27	PVC	2.53	41	40	
1610	P-335	762	6.0	-234.27	PVC	2.95	42	41	
2043	P-592	753	8.0	-247.99	PVC	0.80	42	41	
3013	P-630(2)	472	8.0	-198.66	PVC	0.33	46	46	
1619	P-341	179	8.0	-240.30	PVC	0.18	44	44	
2416	P-780	35	10.0	-255.80	PVC	0.01	48	48	
3606	P-779(2)	618	10.0	-255.80	PVC	0.23	48	48	
1627	P-347	87	8.0	-228.18	PVC	0.08	44	44	
1629	P-348	516	8.0	-228.18	PVC	0.47	44	44	
1633	P-351	226	8.0	-228.18	PVC	0.21	44	44	
1852	P-475	168	6.0	-258.48	PVC	0.78	45	45	
2862	P-988	988	6.0	-296.34	Asbestos Cement	6.71	52	49	
1820	P-457	302	8.0	-258.96	PVC	0.35	40	40	
1524	P-286	520	8.0	-262.69	PVC	0.61	41	41	
3573	P-984(2)	54	8.0	-275.05	PVC	0.07	44	44	
3620	P-955(2)(1)	1,177	8.0	-278.12	PVC	1.54	41	40	
2350	P-744	208	8.0	-278.94	PVC	0.27	46	46	
2375	P-757	86	8.0	-278.94	PVC	0.11	46	46	
1831	P-465	151	8.0	-273.95	PVC	0.19	40	40	
3022	P-533(1)	184	8.0	-276.95	Asbestos Cement	0.27	49	49	
1931	P-525	541	8.0	-267.36	PVC	0.66	47	47	
2390	P-762	243	8.0	-267.36	PVC	0.30	47	45	
2121	P-642	914	8.0	-298.81	PVC	1.37	43	42	
3225	P-890(2)	405	6.0	-287.49	PVC	2.29	42	41	
1555	P-303	895	8.0	-296.75	PVC	1.32	45	44	
1891	P-503	317	10.0	-380.20	PVC	0.25	46	46	
961	P-157	290	8.0	-311.37	PVC	0.47	43	43	
3025	P-912(2)	1,250	6.0	-323.68	PVC	8.80	52	49	
1245	P-196	1,317	8.0	-322.71	PVC	2.27	49	48	
2679	P-909	1,313	6.0	-322.71	PVC	9.20	53	49	
596	P-99	1,258	6.0	-334.28	PVC	9.41	53	49	
2863	P-989	298	8.0	-329.90	PVC	0.54	49	49	
1632	P-350	52	6.0	-306.00	PVC	0.33	44	44	
1858	P-478	1,033	8.0	-498.53	PVC	3.99	48	47	
1697	P-381	480	8.0	-498.53	PVC	1.85	49	48	
1942	P-529	247	8.0	-338.83	PVC	0.47	49	49	
1938	P-527	176	8.0	-327.63	PVC	0.31	49	49	
1936	P-526	229	8.0	-327.63	PVC	0.41	49	49	
1442	P-243	60	6.0	-310.27	PVC	0.39	47	47	
2411	P-777	158	6.0	-382.15	PVC	1.51	47	47	
1379	P-209	129	10.0	-505.25	PVC	0.17	52	52	
1893	P-504	155	10.0	-462.37	PVC	0.18	46	46	
2645	P-895	304	8.0	-279.18	PVC	0.40	46	46	
2647	P-896	77	8.0	-279.18	PVC	0.10	46	46	
2649	P-897	139	8.0	-279.18	PVC	0.18	46	46	
2789	P-947	649	6.0	-392.44	Asbestos Cement	6.54	52	49	
2398	P-767	259	8.0	-401.78	PVC	0.67	46	46	
2038	P-589	74	8.0	-419.14	PVC	0.21	41	41	
2039	P-590	75	8.0	-419.14	PVC	0.21	41	41	
2374	P-756	159	8.0	-420.88	PVC	0.45	46	45	
2045	P-593	419	8.0	-447.78	PVC	1.33	42	42	
1403	P-222	41	10.0	-457.45	PVC	0.05	48	48	
1889	P-502	151	10.0	-539.41	PVC	0.23	46	45	
2169	P-674	1,364	10.0	-440.02	PVC	1.41	46	45	
3621	P-955(2)(2)	137	8.0	-459.00	PVC	0.45	41	41	
2037	P-588	183	8.0	-466.81	PVC	0.63	41	41	
1943	P-530	805	8.0	-497.16	PVC	3.09	48	47	
2093	P-624	39	8.0	-366.55	PVC	0.08	46	46	
2102	P-631	256	8.0	-366.55	PVC	0.56	46	46	
1559	P-306	550	8.0	-477.25	PVC	1.96	45	45	
2851	P-982	686	12.0	-517.71	PVC	0.39	49	49	
2961	P-736(1)	64	6.0	-488.93	PVC	0.97	44	44	
1978	P-549	662	6.0	-505.88	PVC	10.66	47	43	
1953	P-535	38	6.0	-505.88	PVC	0.61	48	47	
1944	P-531	193	8.0	-527.79	PVC	0.83	49	48	
2179	P-681	624	8.0	-477.92	PVC	2.23	46	45	
2397	P-766	190	8.0	-507.58	PVC	0.76	46	46	
1004	P-163	376	8.0	-507.63	PVC	1.50	39	38	
1445	P-244	24	10.0	-526.78	PVC	0.04	45	45	
1542	P-295	350	8.0	-531.63	PVC	1.52	42	41	
2686	P-913	1,325	8.0	-594.13	PVC	7.08	52	49	
54	P-2	80	10.0	-445.18	PVC	0.08	46	46	
110	P-10	326	12.0	-445.18	PVC	0.14	46	46	
2156	P-663	175	8.0	-578.77	PVC	0.89	42	42	
2166	P-672	152	10.0	-508.05	PVC	0.21	47	47	
2852	P-983	635	12.0	-626.34	PVC	0.52	49	49	
1551	P-300	791	8.0	-606.66	PVC	4.39	44	42	
1947	P-532	34	8.0	-611.23	PVC	0.19	49	48	
2957	P-776(2)	1,284	10.0	-611.23	PVC	2.44	48	47	
2170	P-675	538	10.0	-626.07	PVC	1.07	47	46	
2165	P-671	639	10.0	-532.06	PVC	0.94	47	46	
3572	P-984(1)	204	8.0	-723.54	PVC	1.57	44	43	
2675	P-908	1,352	8.0	-751.04	PVC	11.15	53	48	

FlexTable: Pipe Table
Current Time: 19.00 hours

ID	Label	Length (Scaled) (ft)	Diameter (in)	Flow (gpm)	Material	Headloss (ft)	Pressure (psi)	Pressure (Start) (psi)	Notes
1398	P-221	346	10.0	-609.99	PVC	0.55	47	47	
1428	P-236	82	10.0	-609.99	PVC	0.16	47	47	
1552	P-301	56	8.0	-785.68	PVC	0.50	44	44	
1381	P-211	152	12.0	-296.76	PVC	0.03	52	52	
2086	P-617	45	10.0	-789.67	PVC	0.14	47	47	
780	P-118	199	8.0	-989.00	PVC	2.73	39	37	Transfer Line
875	P-136	226	8.0	-989.00	PVC	3.10	40	39	Transfer Line
1389	P-215	2,392	8.0	-989.00	PVC	32.84	30	15	Transfer Line
2131	P-648	110	8.0	-989.00	PVC	1.52	2	2	Transfer Line
2132	P-649	217	8.0	-989.00	PVC	2.99	4	2	Transfer Line
2151	P-660	648	8.0	-989.00	PVC	8.90	37	33	Transfer Line
2152	P-661	80	8.0	-989.00	PVC	1.10	37	37	Transfer Line
2660	P-902	248	8.0	-989.00	PVC	3.40	31	30	Transfer Line
2661	P-903	336	8.0	-989.00	PVC	4.62	33	31	Transfer Line
1581	P-318	470	12.0	-1,228.93	PVC	1.34	47	47	
2085	P-616	26	10.0	-1,145.74	PVC	0.16	47	47	
104	P-9	130	12.0	-1,564.24	PVC	0.58	47	47	
2722	P-927	73	14.0	-2,668.96	PVC	0.41	52	53	
3444	P-352	256	8.0	(N/A)	PVC	(N/A)	(N/A)	(N/A)	
3446	P-353	1,097	8.0	(N/A)	PVC	(N/A)	(N/A)	(N/A)	
3448	P-351(1)	123	8.0	(N/A)	PVC	(N/A)	(N/A)	(N/A)	
3449	P-351(2)	1,097	8.0	(N/A)	PVC	(N/A)	(N/A)	(N/A)	
3450	P-354	253	8.0	(N/A)	PVC	(N/A)	(N/A)	(N/A)	
3452	P-355	207	8.0	(N/A)	PVC	(N/A)	(N/A)	(N/A)	
3454	P-356	1,892	8.0	(N/A)	PVC	(N/A)	(N/A)	(N/A)	
3455	P-357	102	8.0	(N/A)	PVC	(N/A)	(N/A)	(N/A)	
3459	P-361	593	8.0	(N/A)	PVC	(N/A)	(N/A)	(N/A)	
3460	P-362	667	8.0	(N/A)	PVC	(N/A)	(N/A)	(N/A)	
3461	P-363	64	8.0	(N/A)	PVC	(N/A)	(N/A)	(N/A)	
3475	P-369	742	8.0	(N/A)	PVC	(N/A)	(N/A)	(N/A)	
3480	P-368(1)	164	8.0	(N/A)	PVC	(N/A)	(N/A)	(N/A)	
3481	P-368(2)	136	8.0	(N/A)	PVC	(N/A)	(N/A)	(N/A)	
3482	P-370	740	8.0	(N/A)	PVC	(N/A)	(N/A)	(N/A)	
3498	P-373	31	8.0	(N/A)	PVC	(N/A)	(N/A)	(N/A)	
3499	P-374	1,258	8.0	(N/A)	PVC	(N/A)	(N/A)	(N/A)	
3500	P-375	85	8.0	(N/A)	PVC	(N/A)	(N/A)	(N/A)	
3501	P-376	598	8.0	(N/A)	PVC	(N/A)	(N/A)	(N/A)	
3502	P-377	1,256	8.0	(N/A)	PVC	(N/A)	(N/A)	(N/A)	
3503	P-378	577	8.0	(N/A)	PVC	(N/A)	(N/A)	(N/A)	
3504	P-379	1,268	8.0	(N/A)	PVC	(N/A)	(N/A)	(N/A)	
3505	P-380	1,319	8.0	(N/A)	PVC	(N/A)	(N/A)	(N/A)	
3506	P-381	591	8.0	(N/A)	PVC	(N/A)	(N/A)	(N/A)	
3508	P-382	704	8.0	(N/A)	PVC	(N/A)	(N/A)	(N/A)	
3509	P-383	83	8.0	(N/A)	PVC	(N/A)	(N/A)	(N/A)	
3510	P-384	586	8.0	(N/A)	PVC	(N/A)	(N/A)	(N/A)	
3511	P-385	55	8.0	(N/A)	PVC	(N/A)	(N/A)	(N/A)	
3512	P-386	1,124	8.0	(N/A)	PVC	(N/A)	(N/A)	(N/A)	
3517	P-389	58	12.0	(N/A)	Ductile Iron	(N/A)	(N/A)	(N/A)	
3531	P-396	473	6.0	(N/A)	PVC	(N/A)	(N/A)	(N/A)	
3536	P-360(1)	1,020	8.0	(N/A)	PVC	(N/A)	(N/A)	(N/A)	
3540	P-360(2)(1)	903	8.0	(N/A)	PVC	(N/A)	(N/A)	(N/A)	
3541	P-360(2)(2)	394	8.0	(N/A)	PVC	(N/A)	(N/A)	(N/A)	
3547	P-404	2,675	12.0	(N/A)	Ductile Iron	(N/A)	(N/A)	(N/A)	
3548	P-405	2,571	12.0	(N/A)	Ductile Iron	(N/A)	(N/A)	(N/A)	
3549	P-406	2,714	8.0	(N/A)	PVC	(N/A)	(N/A)	(N/A)	
3550	P-407	1,139	8.0	(N/A)	PVC	(N/A)	(N/A)	(N/A)	
3551	P-408	1,134	8.0	(N/A)	PVC	(N/A)	(N/A)	(N/A)	
3552	P-409	315	8.0	(N/A)	PVC	(N/A)	(N/A)	(N/A)	
3553	P-410	149	8.0	(N/A)	PVC	(N/A)	(N/A)	(N/A)	
3554	P-411	2,265	8.0	(N/A)	PVC	(N/A)	(N/A)	(N/A)	
3555	P-412	33	8.0	(N/A)	PVC	(N/A)	(N/A)	(N/A)	
3556	P-413	35	8.0	(N/A)	PVC	(N/A)	(N/A)	(N/A)	
3598	P-423	1,568	8.0	(N/A)	PVC	(N/A)	(N/A)	(N/A)	
3599	P-424	60	8.0	(N/A)	PVC	(N/A)	(N/A)	(N/A)	
3603	P-425	67	6.0	(N/A)	PVC	(N/A)	(N/A)	(N/A)	
3609	P-428	1,210	10.0	(N/A)	PVC	(N/A)	(N/A)	(N/A)	

**Scenario: 2023
Tank Cycling Analysis**

Tank Table - Time: 0.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	-479.33	223.50	98.6	Filling
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	-867.81	215.25	99.1	Filling
1356	Tank No. 3 - 9th Street	102.00	186.00	220.25	220.37	-2,360.30	220.25	99.7	Filling
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	-278.61	98.50	92.3	Filling
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	-5,326.05	111.50	96.9	Filling

Tank Table - Time: 1.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	203.06	217.07	73.0	Emptying
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	407.02	214.94	97.6	Emptying
1356	Tank No. 3 - 9th Street	102.00	186.00	220.25	220.37	877.01	216.02	87.3	Emptying
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	772.31	98.14	86.7	Emptying
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	-0.01	112.00	100.0	Filling

Tank Table - Time: 2.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	347.23	219.34	82.1	Emptying
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	120.05	215.42	99.9	Emptying
1356	Tank No. 3 - 9th Street	102.00	186.00	220.25	220.37	1,037.72	218.23	93.8	Emptying
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	-252.19	97.80	81.6	Filling
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	-4,978.58	111.85	99.1	Filling

Tank Table - Time: 3.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	442.70	215.94	68.5	Emptying
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	991.11	214.86	97.2	Emptying
1356	Tank No. 3 - 9th Street	102.00	186.00	220.25	220.37	1,171.03	214.04	81.6	Emptying
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	-218.31	98.48	91.9	Filling
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	-15,034.31	111.08	94.3	Filling

Tank Table - Time: 4.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	-131.85	221.68	91.4	Filling
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	-120.53	214.83	97.0	Filling
1356	Tank No. 3 - 9th Street	102.00	186.00	220.25	220.37	0.00	220.37	100.0	Full
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	742.83	98.76	96.4	Emptying
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	981.77	111.92	99.5	Emptying

Tank Table - Time: 5.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	892.08	222.81	95.9	Emptying
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	1,006.55	215.36	99.6	Emptying
1356	Tank No. 3 - 9th Street	102.00	186.00	220.25	220.37	0.00	220.37	100.0	Full
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	-270.66	97.60	78.5	Filling
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	-12,281.17	110.80	92.5	Filling

Tank Table - Time: 6.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	890.92	214.30	62.0	Emptying
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	1,630.77	211.20	79.1	Emptying
1356	Tank No. 3 - 9th Street	102.00	185.00	220.25	220.37	383.72	220.37	100.0	Emptying
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	-190.80	98.32	89.5	Filling
2894	WTP Ground Storage	95.00	95.00	111.50	112.00	-35,442.20	106.61	66.3	Filling

Tank Table - Time: 7.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	-133.53	205.97	28.8	Filling
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	800.14	204.63	46.5	Emptying
1356	Tank No. 3 - 9th Street	102.00	185.00	220.25	220.37	-89.21	218.83	95.5	Filling
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	-138.09	98.84	97.5	Filling
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	-34,394.47	106.86	67.9	Filling

Tank Table - Time: 8.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	-649.93	206.46	30.7	Filling
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	-315.94	201.87	32.8	Filling
1356	Tank No. 3 - 9th Street	102.00	185.00	220.25	220.37	-709.35	219.28	96.8	Filling
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	837.12	97.65	79.2	Emptying
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	-22,459.36	109.46	84.1	Filling

Tank Table - Time: 9.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	-629.06	214.23	61.7	Filling
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	-796.52	204.12	44.0	Filling
1356	Tank No. 3 - 9th Street	102.00	185.00	220.25	220.37	0.00	220.37	100.0	Full
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	-212.09	97.82	81.8	Filling
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	-25,371.91	108.80	80.0	Filling

Tank Table - Time: 10.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	-393.60	220.50	86.7	Filling
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	-894.88	207.48	60.6	Filling
1356	Tank No. 3 - 9th Street	102.00	185.00	220.25	220.37	0.00	220.37	100.0	Full
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	-243.46	98.42	91.1	Filling
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	-34,371.88	106.93	68.3	Filling

Tank Table - Time: 11.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	267.10	223.14	97.2	Emptying
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	-836.67	211.18	78.9	Filling
1356	Tank No. 3 - 9th Street	102.00	185.00	220.25	220.37	0.00	220.37	100.0	Full
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	0.00	99.00	100.0	Filling
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	-4,066.35	111.68	98.0	Filling

Tank Table - Time: 12.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	267.10	223.14	97.2	Emptying
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	-836.67	211.18	78.9	Filling
1356	Tank No. 3 - 9th Street	102.00	185.00	220.25	220.37	0.00	220.37	100.0	Full
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	0.00	99.00	100.0	Filling
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	-4,066.35	111.68	98.0	Filling

Tank Table - Time: 12.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	-10.45	220.73	87.6	Filling
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	-510.28	214.51	95.4	Filling
1356	Tank No. 3 - 9th Street	102.00	186.00	220.25	220.37	0.00	220.37	100.0	Full
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	0.00	99.00	100.0	Filling
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	-32,498.94	107.58	72.4	Filling

Tank Table - Time: 13.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	-893.10	218.19	77.5	Filling
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	-449.15	214.22	94.0	Filling
1356	Tank No. 3 - 9th Street	102.00	186.00	220.25	220.37	0.00	220.37	100.0	Full
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	757.85	98.32	89.6	Emptying
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	-12,040.13	110.96	93.5	Filling

Tank Table - Time: 14.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	102.80	219.69	83.5	Emptying
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	55.80	214.38	94.8	Emptying
1356	Tank No. 3 - 9th Street	102.00	186.00	220.25	220.37	-1,722.42	218.96	95.9	Filling
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	-256.57	97.76	80.9	Filling
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	2,525.29	111.94	99.6	Emptying

Tank Table - Time: 15.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	192.55	220.25	85.7	Emptying
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	61.75	214.42	95.0	Emptying
1356	Tank No. 3 - 9th Street	102.00	186.00	220.25	220.37	-1,822.58	218.20	93.7	Filling
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	-253.00	98.46	91.6	Filling
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	-295.95	111.82	98.9	Filling

Tank Table - Time: 16.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	1,020.27	221.50	90.7	Emptying
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	899.48	214.74	96.6	Emptying
1356	Tank No. 3 - 9th Street	102.00	186.00	220.25	220.37	1,846.28	218.81	95.4	Emptying
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	752.75	98.61	94.0	Emptying
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	-5.69	112.00	100.0	Filling

Tank Table - Time: 17.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	1,255.21	221.39	90.2	Emptying
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	1,341.72	214.86	97.2	Emptying
1356	Tank No. 3 - 9th Street	102.00	186.00	220.25	220.37	2,300.42	219.08	96.3	Emptying
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	-256.00	97.66	79.3	Filling
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	-3,873.19	111.90	99.4	Filling

Tank Table - Time: 18.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	818.41	220.26	85.7	Emptying
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	1,052.71	213.78	91.8	Emptying
1356	Tank No. 3 - 9th Street	102.00	186.00	220.25	220.37	0.00	220.37	100.0	Full
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	-240.83	98.33	89.8	Filling
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	-23,522.30	109.12	82.0	Filling

Tank Table - Time: 19.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	815.63	212.60	55.2	Emptying
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	1,564.24	209.48	70.5	Emptying
1356	Tank No. 3 - 9th Street	102.00	186.00	220.25	220.37	504.82	220.37	100.0	Emptying
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	-174.36	98.98	99.7	Filling
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	-34,707.20	106.79	67.4	Filling

Tank Table - Time: 20.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	-85.90	205.34	26.3	Filling
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	721.97	203.24	39.6	Emptying
1356	Tank No. 3 - 9th Street	102.00	186.00	220.25	220.37	-136.71	218.15	93.5	Filling
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	-159.69	97.47	76.4	Filling
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	-5,251.11	111.49	96.8	Filling

Tank Table - Time: 21.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	-972.79	205.97	28.8	Filling
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	-741.87	200.43	25.7	Filling
1356	Tank No. 3 - 9th Street	102.00	186.00	220.25	220.37	-1,032.77	218.69	95.1	Filling
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	-153.50	97.90	83.0	Filling
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	-35,882.46	106.52	65.7	Filling

Tank Table - Time: 22.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	-1,582.16	217.69	75.5	Filling
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	-1,802.98	204.72	46.9	Filling
1356	Tank No. 3 - 9th Street	102.00	186.00	220.25	220.37	0.00	220.37	100.0	Full
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	-248.70	98.41	90.8	Filling
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	-24,636.96	108.98	81.2	Filling

Tank Table - Time: 23.00 hours

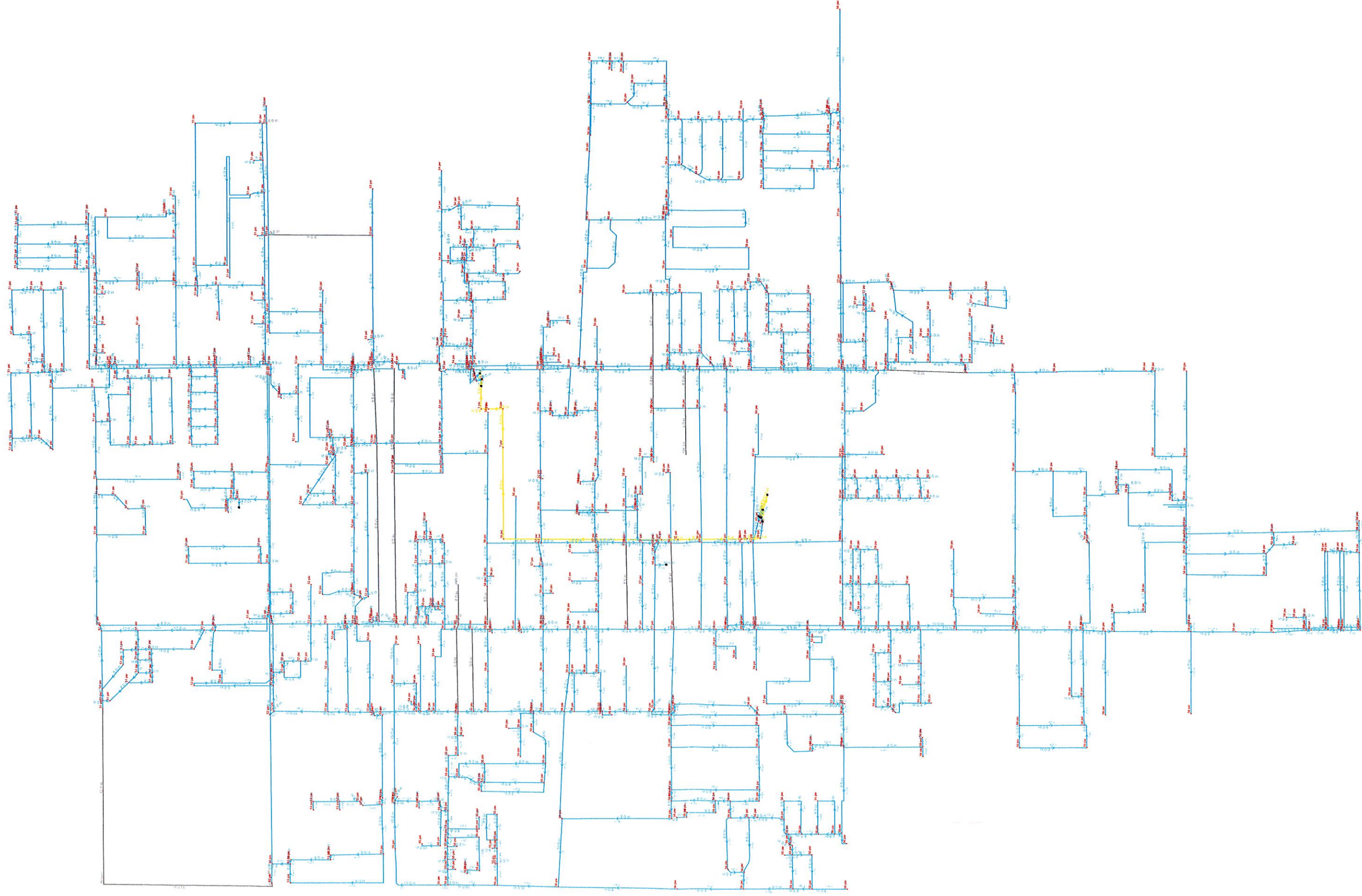
ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	0.00	223.84	100.0	Full
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	-2,363.26	213.65	91.2	Filling
1356	Tank No. 3 - 9th Street	102.00	186.00	220.25	220.37	0.00	220.37	100.0	Full
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	0.00	99.00	100.0	Filling
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	-1,901.08	111.83	98.9	Filling

Tank Table - Time: 24.00 hours

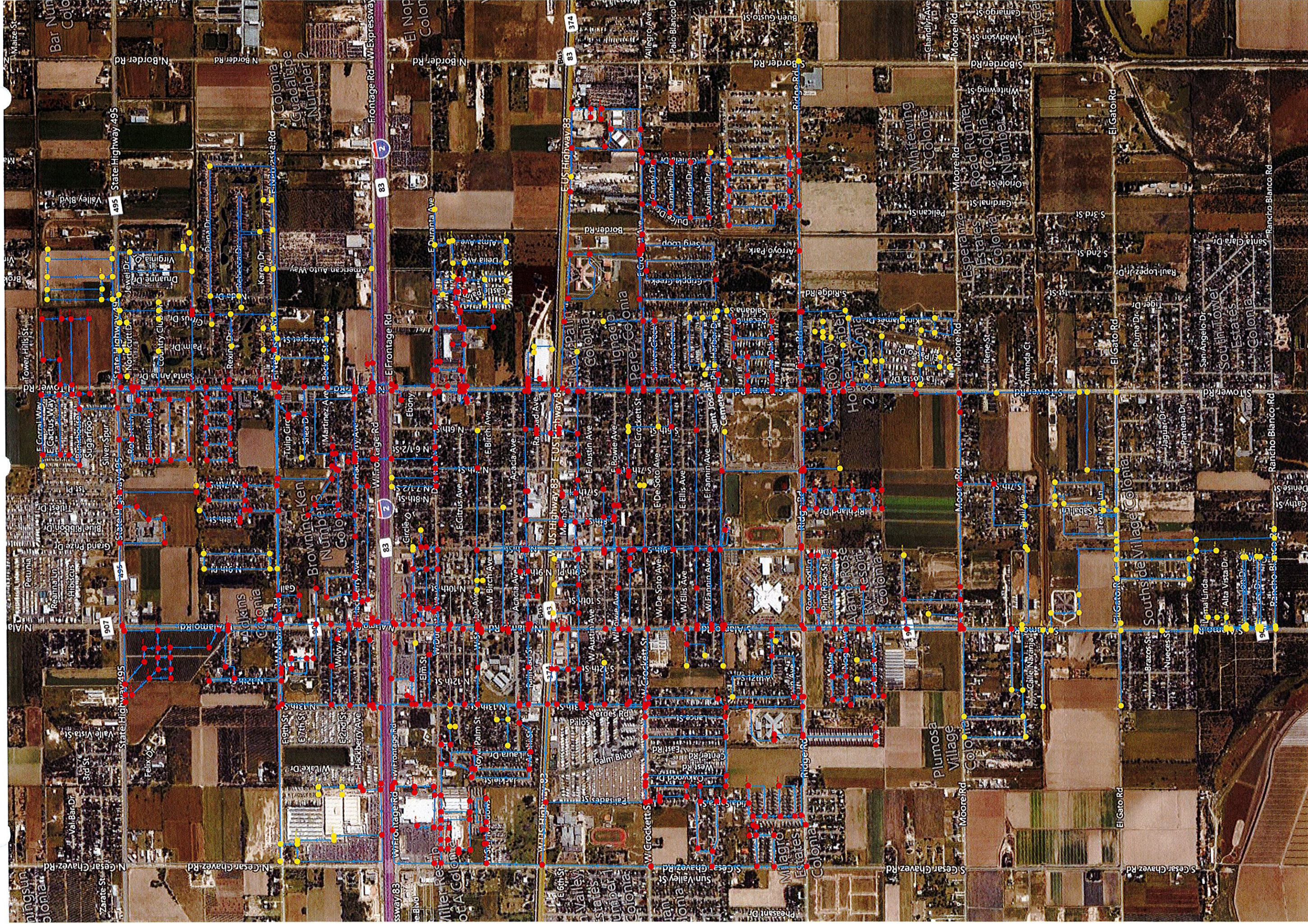
Tank Table - Time: 24.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.64	169.85	217.27	73.8	Emptying
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	352.96	215.11	98.4	Emptying
1356	Tank No. 3 - 9th Street	102.00	185.00	220.25	220.37	963.94	216.77	89.5	Emptying
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	772.64	98.40	90.7	Emptying
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	-0.02	112.00	100.0	Filling

Scenario: 2027 CIP Peak Flow @ 1.5 gpm - 6520 Connections



Scenario: Fire Flow Analysis 2027 CIP @ 2 Hr Peak



**Scenario: 2027 Fire Flow Analysis
@ Daily Average 1,500 gpm**

Fire Flow Results Table

Label	Is Fire Flow Run Balanced?	Satisfies Fire Flow Constraints?	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Fire Flow Status	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Residual) (psi)
J-1	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	23
J-2	True	True	1,500.00	3,367.85	1,500.00	3,367.85	Passed	40	20
J-3	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	44	31
J-4	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	44	32
J-5	True	True	1,500.00	3,155.73	1,500.00	3,155.73	Passed	40	20
J-6	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	21
J-7	True	True	1,500.00	2,860.50	1,500.00	2,860.50	Passed	38	20
J-8	True	True	1,500.00	2,611.27	1,587.80	2,699.07	Passed	37	20
J-9	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	52	50
J-10	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	21
J-11	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	22
J-12	True	True	1,500.00	3,431.76	1,500.00	3,431.76	Passed	41	20
J-13	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	47	40
J-14	True	True	1,500.00	1,638.15	1,500.00	1,638.15	Passed	23	20
J-15	True	True	1,500.00	1,604.15	1,500.00	1,604.15	Passed	22	20
J-16	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	21
J-17	True	True	1,500.00	3,352.58	1,500.00	3,352.58	Passed	40	20
J-18	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	21
J-19	True	True	1,500.00	2,479.54	1,550.30	2,529.84	Passed	33	20
J-20	True	True	1,500.00	2,342.96	1,500.00	2,342.96	Passed	32	20
J-21	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	45	35
J-22	True	True	1,500.00	2,810.95	1,500.00	2,810.95	Passed	38	20
J-23	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	27
J-24	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	46	36
J-25	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	30
J-26	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	28
J-27	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	30
J-28	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	45	37
J-29	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	49	48
J-30	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	46	39
J-31	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	46	38
J-32	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	44	30
J-33	True	True	1,500.00	3,057.92	1,500.00	3,057.92	Passed	39	20
J-34	True	True	1,500.00	3,249.90	1,500.00	3,249.90	Passed	40	20
J-35	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	47	44
J-36	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	49	47
J-37	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	52	51
J-38	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	50	46
J-41	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	48	42
J-42	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	48	42
J-43	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	50	46
J-44	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	48	42
J-45	True	True	1,500.00	3,499.99	1,548.80	3,548.79	Passed	39	21
J-46	True	True	1,500.00	2,713.75	1,500.00	2,713.75	Passed	35	21
J-48	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	53	51
J-50	True	True	1,500.00	2,216.66	1,500.00	2,216.66	Passed	34	20
J-51	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	53	51
J-52	True	True	1,500.00	2,299.90	1,500.00	2,299.90	Passed	35	20
J-53	True	True	1,500.00	2,639.32	1,500.00	2,639.32	Passed	37	20
J-54	True	True	1,500.00	2,291.54	1,500.00	2,291.54	Passed	35	20
J-55	True	True	1,500.00	2,597.23	1,500.00	2,597.23	Passed	37	20
J-57	True	True	1,500.00	1,632.03	1,500.00	1,632.03	Passed	24	20
J-58	True	True	1,500.00	1,566.64	1,569.05	1,635.69	Passed	22	20
J-59	True	True	1,500.00	1,755.90	1,500.00	1,755.90	Passed	27	20
J-60	True	True	1,500.00	1,681.59	1,500.00	1,681.59	Passed	25	20
J-61	True	True	1,500.00	3,299.92	1,500.00	3,299.92	Passed	41	20
J-62	True	True	1,500.00	2,862.54	1,500.00	2,862.54	Passed	39	20
J-63	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	23
J-64	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	22
J-65	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	24
J-66	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	45	36
J-67	True	True	1,500.00	2,847.53	1,500.00	2,847.53	Passed	39	20
J-68	True	True	1,500.00	2,722.74	1,500.00	2,722.74	Passed	39	20
J-69	True	True	1,500.00	2,112.12	1,500.00	2,112.12	Passed	32	25
J-70	True	True	1,500.00	2,510.10	1,500.00	2,510.10	Passed	34	21
J-71	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	44	31
J-72	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	44	33
J-75	True	True	1,500.00	2,902.39	1,500.00	2,902.39	Passed	38	20
J-76	True	True	1,500.00	2,039.49	1,500.00	2,039.49	Passed	31	20
J-81	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	31
J-82	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	31
J-83	True	True	1,500.00	2,246.07	1,500.00	2,246.07	Passed	34	20
J-84	True	True	1,500.00	3,124.58	1,500.00	3,124.58	Passed	40	20
J-87	True	True	1,500.00	3,094.52	1,500.00	3,094.52	Passed	40	20
J-89	True	True	1,500.00	3,442.35	1,500.00	3,442.35	Passed	43	20
J-90	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	48	42
J-91	True	True	1,500.00	2,830.15	1,500.00	2,830.15	Passed	39	20
J-92	True	True	1,500.00	2,086.22	1,500.00	2,086.22	Passed	33	20
J-95	True	True	1,500.00	3,379.93	1,500.00	3,379.93	Passed	41	20
J-96	True	True	1,500.00	2,274.06	1,500.00	2,274.06	Passed	35	20
J-99	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	46	26
J-111	True	True	1,500.00	1,756.46	1,605.05	1,861.51	Passed	25	20
J-119	True	True	1,500.00	1,515.82	1,500.00	1,515.82	Passed	20	20

Fire Flow Node FlexTable: Fire Flow Results Table

Label	Is Fire Flow Run Balanced?	Satisfies Fire Flow Constraints?	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Fire Flow Status	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Residual) (psi)
J-123	True	True	1,500.00	2,281.52	1,500.00	2,281.52	Passed	35	20
J-126	True	True	1,500.00	1,906.27	1,500.00	1,906.27	Passed	30	20
J-127	True	True	1,500.00	2,628.84	1,500.00	2,628.84	Passed	38	20
J-128	True	True	1,500.00	2,427.04	1,500.00	2,427.04	Passed	36	20
J-129	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	22
J-130	True	True	1,500.00	2,043.49	1,500.00	2,043.49	Passed	32	20
J-133	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	30
J-134	True	True	1,500.00	2,873.90	1,500.00	2,873.90	Passed	38	20
J-137	True	True	1,500.00	1,731.75	1,596.05	1,827.80	Passed	26	20
J-138	True	True	1,500.00	1,605.77	1,500.00	1,605.77	Passed	22	20
J-140	True	True	1,500.00	2,744.87	1,500.00	2,744.87	Passed	39	20
J-141	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	48	44
J-142	True	True	1,500.00	2,392.71	1,500.00	2,392.71	Passed	37	20
J-145	True	True	1,500.00	2,936.76	1,500.00	2,936.76	Passed	37	21
J-146	True	True	1,500.00	3,499.99	1,742.30	3,742.29	Passed	45	32
J-147	True	True	1,500.00	3,198.27	1,500.00	3,198.27	Passed	40	20
J-148	True	True	1,500.00	3,137.24	1,500.00	3,137.24	Passed	40	20
J-149	True	True	1,500.00	1,758.63	1,500.00	1,758.63	Passed	27	20
J-151	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	46	39
J-152	True	True	1,500.00	2,034.00	1,500.00	2,034.00	Passed	32	20
J-153	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	23
J-154	True	True	1,500.00	1,779.87	1,500.00	1,779.87	Passed	27	20
J-155	True	True	1,500.00	2,193.99	1,500.00	2,193.99	Passed	33	20
J-156	True	True	1,500.00	2,283.50	1,500.00	2,283.50	Passed	34	20
J-157	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	46	39
J-158	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	25
J-159	True	True	1,500.00	1,620.99	1,500.00	1,620.99	Passed	23	20
J-161	True	True	1,500.00	2,779.07	1,500.00	2,779.07	Passed	38	20
J-162	True	True	1,500.00	2,792.16	1,500.00	2,792.16	Passed	38	20
J-165	True	True	1,500.00	1,712.14	1,500.00	1,712.14	Passed	26	20
J-167	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	23
J-168	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	32
J-169	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	45	36
J-170	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	45	37
J-171	True	True	1,500.00	2,626.75	1,500.00	2,626.75	Passed	37	20
J-172	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	34
J-173	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	51	48
J-174	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	48	48
J-175	True	True	1,500.00	2,603.13	1,542.80	2,645.93	Passed	37	20
J-176	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	44	34
J-179	True	True	1,500.00	3,265.48	1,500.00	3,265.48	Passed	41	20
J-180	True	True	1,500.00	3,299.44	1,500.00	3,299.44	Passed	41	20
J-181	True	True	1,500.00	2,268.17	1,611.80	2,379.97	Passed	34	20
J-184	True	True	1,500.00	2,421.34	1,500.00	2,421.34	Passed	36	20
J-185	True	True	1,500.00	1,802.57	1,500.00	1,802.57	Passed	27	20
J-186	True	True	1,500.00	2,125.23	1,500.00	2,125.23	Passed	34	20
J-188	True	True	1,500.00	3,463.40	1,500.00	3,463.40	Passed	40	20
J-189	True	True	1,500.00	2,945.23	1,500.00	2,945.23	Passed	39	20
J-190	True	True	1,500.00	2,793.12	1,500.00	2,793.12	Passed	38	20
J-191	True	True	1,500.00	2,637.83	1,500.00	2,637.83	Passed	37	20
J-192	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	45	37
J-193	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	45	36
J-194	True	True	1,500.00	2,812.45	1,500.00	2,812.45	Passed	40	20
J-196	True	True	1,500.00	2,110.24	1,500.00	2,110.24	Passed	34	20
J-198	True	True	1,500.00	1,696.03	1,500.00	1,696.03	Passed	24	20
J-199	True	True	1,500.00	1,701.93	1,500.00	1,701.93	Passed	24	20
J-200	True	True	1,500.00	1,746.18	1,500.00	1,746.18	Passed	25	20
J-201	True	True	1,500.00	1,746.46	1,500.00	1,746.46	Passed	25	20
J-202	True	True	1,500.00	2,496.54	1,500.00	2,496.54	Passed	36	20
J-203	True	True	1,500.00	2,197.42	1,500.00	2,197.42	Passed	33	20
J-204	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	44	31
J-205	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	25
J-206	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	32
J-207	True	True	1,500.00	2,930.74	1,500.00	2,930.74	Passed	39	20
J-208	True	True	1,500.00	2,246.48	1,500.00	2,246.48	Passed	34	20
J-210	True	True	1,500.00	1,979.88	1,500.00	1,979.88	Passed	32	20
J-214	True	True	1,500.00	1,832.24	1,500.00	1,832.24	Passed	26	20
J-216	True	True	1,500.00	1,723.23	1,500.00	1,723.23	Passed	26	20
J-217	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	44	26
J-218	True	True	1,500.00	2,454.09	1,500.00	2,454.09	Passed	35	20
J-219	True	True	1,500.00	2,151.51	1,542.80	2,194.31	Passed	30	20
J-221	True	True	1,500.00	2,474.56	1,500.00	2,474.56	Passed	36	20
J-222	True	True	1,500.00	2,812.56	1,500.00	2,812.56	Passed	36	21
J-225	True	True	1,500.00	1,787.52	1,500.00	1,787.52	Passed	27	20
J-226	True	True	1,500.00	1,511.05	1,500.00	1,511.05	Passed	20	20
J-228	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	40	22
J-230	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	45	32
J-232	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	48	39
J-234	True	True	1,500.00	1,638.89	1,500.00	1,638.89	Passed	23	20
J-235	True	True	1,500.00	1,653.09	1,500.00	1,653.09	Passed	23	20
J-236	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	29
J-237	True	True	1,500.00	1,871.64	1,500.00	1,871.64	Passed	27	20
J-239	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	26

Fire Flow Node FlexTable: Fire Flow Results Table

Label	Is Fire Flow Run Balanced?	Satisfies Fire Flow Constraints?	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Fire Flow Status	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Residual) (psi)
J-240	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	45	32
J-241	True	True	1,500.00	3,156.44	1,500.00	3,156.44	Passed	40	20
J-243	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	44	33
J-244	True	True	1,500.00	3,274.95	1,500.00	3,274.95	Passed	42	20
J-246	True	True	1,500.00	1,752.16	1,500.00	1,752.16	Passed	25	20
J-247	True	True	1,500.00	2,227.10	1,500.00	2,227.10	Passed	33	20
J-248	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	40	23
J-249	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	45	36
J-251	True	True	1,500.00	1,745.71	1,500.00	1,745.71	Passed	26	20
J-253	True	True	1,500.00	1,929.25	1,500.00	1,929.25	Passed	30	20
J-260	True	True	1,500.00	1,977.54	1,500.00	1,977.54	Passed	32	20
J-262	True	True	1,500.00	2,608.21	1,500.00	2,608.21	Passed	37	20
J-263	True	True	1,500.00	2,405.37	1,500.00	2,405.37	Passed	35	20
J-267	True	True	1,500.00	1,564.53	1,500.00	1,564.53	Passed	21	20
J-268	True	True	1,500.00	2,432.19	1,500.00	2,432.19	Passed	33	20
J-269	True	True	1,500.00	2,055.97	1,500.00	2,055.97	Passed	30	20
J-270	True	True	1,500.00	1,541.62	1,500.00	1,541.62	Passed	22	21
J-271	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	45	29
J-274	True	True	1,500.00	1,885.11	1,500.00	1,885.11	Passed	29	20
J-275	True	True	1,500.00	3,364.11	1,500.00	3,364.11	Passed	41	20
J-276	True	True	1,500.00	3,249.33	1,500.00	3,249.33	Passed	41	20
J-277	True	True	1,500.00	1,972.80	1,500.00	1,972.80	Passed	28	20
J-278	True	True	1,500.00	1,615.14	1,500.00	1,615.14	Passed	23	20
J-279	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	44	34
J-281	True	True	1,500.00	2,904.77	1,500.00	2,904.77	Passed	38	20
J-282	True	True	1,500.00	2,011.05	1,500.00	2,011.05	Passed	31	20
J-286	True	True	1,500.00	1,562.00	1,500.00	1,562.00	Passed	25	23
J-287	True	True	1,500.00	3,385.31	1,500.00	3,385.31	Passed	43	20
J-288	True	True	1,500.00	1,540.84	1,500.00	1,540.84	Passed	22	20
J-289	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	44	34
J-294	True	True	1,500.00	2,369.17	1,500.00	2,369.17	Passed	32	20
J-296	True	True	1,500.00	2,236.05	1,500.00	2,236.05	Passed	30	20
J-297	True	True	1,500.00	2,901.26	1,500.00	2,901.26	Passed	39	20
J-299	True	True	1,500.00	2,295.97	1,500.00	2,295.97	Passed	35	20
J-300	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	47	40
J-301	True	True	1,500.00	2,734.97	1,500.00	2,734.97	Passed	38	20
J-304	True	True	1,500.00	1,655.87	1,500.00	1,655.87	Passed	23	20
J-305	True	True	1,500.00	2,381.07	1,500.00	2,381.07	Passed	34	23
J-307	True	True	1,500.00	3,030.55	1,500.00	3,030.55	Passed	39	20
J-309	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	44	33
J-310	True	True	1,500.00	2,755.26	1,500.00	2,755.26	Passed	38	20
J-311	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	54	52
J-314	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	26
J-315	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	31
J-316	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	32
J-317	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	32
J-318	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	33
J-319	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	40	25
J-320	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	34
J-321	True	True	1,500.00	1,701.59	1,500.00	1,701.59	Passed	25	21
J-323	True	True	1,500.00	3,499.99	1,550.30	3,550.29	Passed	46	38
J-327	True	True	1,500.00	1,789.91	1,625.30	1,915.21	Passed	27	20
J-329	True	True	1,500.00	1,503.07	1,500.00	1,503.07	Passed	24	23
J-331	True	True	1,500.00	2,025.94	1,500.00	2,025.94	Passed	31	24
J-334	True	True	1,500.00	2,719.19	1,500.00	2,719.19	Passed	36	22
J-335	True	True	1,500.00	2,937.35	1,500.00	2,937.35	Passed	39	20
J-336	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	45	37
J-338	True	True	1,500.00	1,968.52	1,500.00	1,968.52	Passed	28	20
J-340	True	True	1,500.00	3,499.99	1,617.80	3,617.79	Passed	42	20
J-341	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	44	26
J-342	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	45	36
J-343	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	44	33
J-344	True	True	1,500.00	2,611.26	1,500.00	2,611.26	Passed	20	34
J-345	True	True	1,500.00	2,089.03	1,500.00	2,089.03	Passed	32	20
J-346	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	22
J-347	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	45	36
J-348	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	52	51
J-349	True	True	1,500.00	2,411.66	1,500.00	2,411.66	Passed	33	20
J-351	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	25
J-352	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	44	25
J-353	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	25
J-357	True	True	1,500.00	2,524.87	1,500.00	2,524.87	Passed	37	20
J-359	True	True	1,500.00	1,765.97	1,500.00	1,765.97	Passed	27	20
J-360	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	34
J-361	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	48	40
J-362	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	39	21
J-363	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	48	41
J-364	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	39	21
J-365	True	True	1,500.00	2,341.61	1,500.00	2,341.61	Passed	31	20
J-366	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	40	21
J-367	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	30
J-369	True	True	1,500.00	2,891.67	1,500.00	2,891.67	Passed	39	20
J-370	True	True	1,500.00	2,555.77	1,500.00	2,555.77	Passed	37	20

Fire Flow Node FlexTable: Fire Flow Results Table

Label	Is Fire Flow Run Balanced?	Satisfies Fire Flow Constraints?	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Fire Flow Status	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Residual) (psi)
J-371	True	True	1,500.00	2,499.74	1,500.00	2,499.74	Passed	36	20
J-372	True	True	1,500.00	1,773.78	1,500.00	1,773.78	Passed	25	20
J-373	True	True	1,500.00	1,665.41	1,500.00	1,665.41	Passed	24	20
J-374	True	True	1,500.00	1,610.72	1,500.00	1,610.72	Passed	22	20
J-375	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	39	22
J-378	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	46	31
J-379	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	45	29
J-380	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	26
J-381	True	True	1,500.00	1,775.13	1,500.00	1,775.13	Passed	25	20
J-382	True	True	1,500.00	1,752.56	1,500.00	1,752.56	Passed	25	20
J-383	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	44	34
J-384	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	30
J-386	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	44	30
J-387	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	44	29
J-388	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	21
J-389	True	True	1,500.00	2,343.26	1,500.00	2,343.26	Passed	32	20
J-390	True	True	1,500.00	2,330.74	1,500.00	2,330.74	Passed	31	20
J-391	True	True	1,500.00	1,751.99	1,500.00	1,751.99	Passed	25	20
J-392	True	True	1,500.00	1,626.63	1,500.00	1,626.63	Passed	23	20
J-393	True	True	1,500.00	1,786.58	1,500.00	1,786.58	Passed	25	20
J-394	True	True	1,500.00	2,138.28	1,500.00	2,138.28	Passed	33	20
J-395	True	True	1,500.00	2,136.37	1,500.00	2,136.37	Passed	33	20
J-396	True	True	1,500.00	2,250.94	1,500.00	2,250.94	Passed	34	20
J-397	True	True	1,500.00	2,251.01	1,500.00	2,251.01	Passed	34	20
J-398	True	True	1,500.00	2,935.92	1,500.00	2,935.92	Passed	39	20
J-399	True	True	1,500.00	2,894.48	1,500.00	2,894.48	Passed	38	20
J-404	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	21
J-405	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	20
J-406	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	44	28
J-410	True	True	1,500.00	3,447.78	1,500.00	3,447.78	Passed	42	20
J-411	True	True	1,500.00	3,004.38	1,523.30	3,027.68	Passed	41	20
J-412	True	True	1,500.00	3,122.91	1,500.00	3,122.91	Passed	41	20
J-415	True	True	1,500.00	2,124.97	1,500.00	2,124.97	Passed	33	20
J-416	True	True	1,500.00	2,208.52	1,500.00	2,208.52	Passed	34	20
J-417	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	46	29
J-418	True	True	1,500.00	3,499.99	1,638.80	3,638.79	Passed	47	33
J-419	True	True	1,500.00	1,625.63	1,500.00	1,625.63	Passed	24	20
J-420	True	True	1,500.00	1,667.50	1,500.00	1,667.50	Passed	25	20
J-421	True	True	1,500.00	1,777.81	1,500.00	1,777.81	Passed	25	20
J-422	True	True	1,500.00	1,759.29	1,500.00	1,759.29	Passed	25	20
J-423	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	31
J-424	True	True	1,500.00	3,499.99	1,800.00	3,499.99	Passed	42	23
J-425	True	True	1,500.00	2,910.74	1,500.00	2,910.74	Passed	39	20
J-426	True	True	1,500.00	1,508.28	1,500.00	1,508.28	Passed	20	20
J-428	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	24
J-429	True	True	1,500.00	1,824.98	1,500.00	1,824.98	Passed	27	20
J-430	True	True	1,500.00	2,445.02	1,500.00	2,445.02	Passed	33	20
J-431	True	True	1,500.00	1,886.05	1,500.00	1,886.05	Passed	28	20
J-432	True	True	1,500.00	2,583.81	1,500.00	2,583.81	Passed	34	20
J-433	True	True	1,500.00	1,854.14	1,500.00	1,854.14	Passed	28	20
J-438	True	True	1,500.00	2,372.85	1,500.00	2,372.85	Passed	35	20
J-439	True	True	1,500.00	2,807.87	1,500.00	2,807.87	Passed	38	20
J-440	True	True	1,500.00	2,926.24	1,500.00	2,926.24	Passed	38	20
J-442	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	46	33
J-443	True	True	1,500.00	2,260.73	1,500.00	2,260.73	Passed	36	20
J-444	True	True	1,500.00	2,476.88	1,500.00	2,476.88	Passed	39	20
J-445	True	True	1,500.00	2,810.98	1,500.00	2,810.98	Passed	36	21
J-446	True	True	1,500.00	2,600.12	1,500.00	2,600.12	Passed	34	20
J-447	True	True	1,500.00	2,389.83	1,500.00	2,389.83	Passed	35	20
J-448	True	True	1,500.00	2,381.97	1,500.00	2,381.97	Passed	35	20
J-449	True	True	1,500.00	2,024.49	1,500.00	2,024.49	Passed	31	20
J-450	True	True	1,500.00	2,019.75	1,500.00	2,019.75	Passed	31	20
J-451	True	True	1,500.00	1,661.38	1,500.00	1,661.38	Passed	23	20
J-452	True	True	1,500.00	1,685.90	1,500.00	1,685.90	Passed	24	20
J-454	True	True	1,500.00	1,571.16	1,500.00	1,571.16	Passed	21	20
J-455	True	True	1,500.00	2,922.34	1,500.00	2,922.34	Passed	40	20
J-456	True	True	1,500.00	2,530.90	1,500.00	2,530.90	Passed	37	20
J-457	True	True	1,500.00	1,643.52	1,500.00	1,643.52	Passed	23	20
J-458	True	True	1,500.00	2,494.47	1,500.00	2,494.47	Passed	36	20
J-459	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	31
J-460	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	25
J-461	True	True	1,500.00	1,660.84	1,500.00	1,660.84	Passed	23	20
J-462	True	True	1,500.00	3,430.48	1,500.00	3,430.48	Passed	40	20
J-463	True	True	1,500.00	2,523.07	1,500.00	2,523.07	Passed	34	21
J-464	True	True	1,500.00	2,429.37	1,580.30	2,509.67	Passed	33	20
J-465	True	True	1,500.00	2,450.50	1,580.30	2,530.80	Passed	33	20
J-467	True	True	1,500.00	2,793.79	1,500.00	2,793.79	Passed	38	20
J-468	True	True	1,500.00	2,756.63	1,500.00	2,756.63	Passed	37	20
J-470	True	True	1,500.00	2,222.01	1,500.00	2,222.01	Passed	30	20
J-471	True	True	1,500.00	2,050.61	1,500.00	2,050.61	Passed	30	20
J-472	True	True	1,500.00	2,435.81	1,655.30	2,591.11	Passed	33	20
J-473	True	True	1,500.00	2,918.19	1,500.00	2,918.19	Passed	38	20
J-474	True	True	1,500.00	2,875.92	1,500.00	2,875.92	Passed	38	20

Fire Flow Node FlexTable: Fire Flow Results Table

Label	Is Fire Flow Run Balanced?	Satisfies Fire Flow Constraints?	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Fire Flow Status	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Residual) (psi)
J-475	True	True	1,500.00	2,303.97	1,500.00	2,303.97	Passed	35	20
J-476	True	True	1,500.00	2,333.66	1,500.00	2,333.66	Passed	35	20
J-477	True	True	1,500.00	3,047.78	1,500.00	3,047.78	Passed	39	20
J-478	True	True	1,500.00	3,075.23	1,500.00	3,075.23	Passed	39	20
J-479	True	True	1,500.00	2,597.98	1,500.00	2,597.98	Passed	38	21
J-480	True	True	1,500.00	2,424.06	1,500.00	2,424.06	Passed	36	20
J-481	True	True	1,500.00	2,227.29	1,500.00	2,227.29	Passed	31	20
J-482	True	True	1,500.00	2,335.87	1,500.00	2,335.87	Passed	32	20
J-483	True	True	1,500.00	2,104.58	1,500.00	2,104.58	Passed	32	20
J-484	True	True	1,500.00	2,280.62	1,500.00	2,280.62	Passed	34	20
J-489	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	48	44
J-490	True	True	1,500.00	2,427.46	1,500.00	2,427.46	Passed	34	20
J-491	True	True	1,500.00	2,317.15	1,500.00	2,317.15	Passed	33	20
J-494	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	24
J-495	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	21
J-496	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	44	35
J-503	True	True	1,500.00	2,884.93	1,500.00	2,884.93	Passed	39	20
J-504	True	True	1,500.00	1,667.39	1,500.00	1,667.39	Passed	23	20
J-505	True	True	1,500.00	1,788.55	1,500.00	1,788.55	Passed	25	20
J-508	True	True	1,500.00	2,069.33	1,500.00	2,069.33	Passed	32	20
J-509	True	True	1,500.00	1,941.39	1,500.00	1,941.39	Passed	30	20
J-510	True	True	1,500.00	2,967.55	1,500.00	2,967.55	Passed	38	20
J-511	True	True	1,500.00	2,909.50	1,500.00	2,909.50	Passed	38	20
J-512	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	44	34
J-513	True	True	1,500.00	2,418.30	1,500.00	2,418.30	Passed	35	20
J-514	True	True	1,500.00	2,942.51	1,500.00	2,942.51	Passed	39	20
J-515	True	True	1,500.00	3,248.23	1,500.00	3,248.23	Passed	40	20
J-516	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	46	35
J-517	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	48	40
J-518	True	True	1,500.00	1,574.06	1,500.00	1,574.06	Passed	22	20
J-519	True	True	1,500.00	2,315.55	1,500.00	2,315.55	Passed	31	20
J-520	True	True	1,500.00	2,634.53	1,500.00	2,634.53	Passed	38	21
J-521	True	True	1,500.00	2,510.46	1,500.00	2,510.46	Passed	37	20
J-523	True	True	1,500.00	2,711.66	1,500.00	2,711.66	Passed	35	21
J-525	True	True	1,500.00	1,873.42	1,500.00	1,873.42	Passed	27	20
J-526	True	True	1,500.00	1,803.12	1,500.00	1,803.12	Passed	26	20
J-527	True	True	1,500.00	2,625.45	1,500.00	2,625.45	Passed	38	20
J-528	True	True	1,500.00	1,500.93	1,500.00	1,500.93	Passed	22	22
J-529	True	True	1,500.00	2,049.91	1,581.80	2,131.71	Passed	30	20
J-530	True	True	1,500.00	2,339.44	1,500.00	2,339.44	Passed	33	20
J-531	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	30
J-532	True	True	1,500.00	2,647.85	1,631.30	2,779.15	Passed	37	20
J-533	True	True	1,500.00	2,907.80	1,500.00	2,907.80	Passed	38	20
J-535	True	True	1,500.00	1,853.19	1,500.00	1,853.19	Passed	26	20
J-536	True	True	1,500.00	1,947.40	1,500.00	1,947.40	Passed	28	20
J-537	True	True	1,500.00	1,581.03	1,500.00	1,581.03	Passed	22	20
J-538	True	True	1,500.00	1,619.28	1,500.00	1,619.28	Passed	22	20
J-539	True	True	1,500.00	1,582.85	1,712.30	1,795.15	Passed	22	20
J-540	True	True	1,500.00	3,499.65	1,500.00	3,499.65	Passed	41	20
J-542	True	True	1,500.00	2,237.53	1,500.00	2,237.53	Passed	30	20
J-543	True	True	1,500.00	1,764.57	1,500.00	1,764.57	Passed	25	20
J-544	True	True	1,500.00	2,344.68	1,500.00	2,344.68	Passed	33	20
J-545	True	True	1,500.00	2,470.35	1,500.00	2,470.35	Passed	34	20
J-546	True	True	1,500.00	2,080.70	1,500.00	2,080.70	Passed	29	20
J-547	True	True	1,500.00	1,998.65	1,742.30	2,240.95	Passed	28	20
J-548	True	True	1,500.00	1,519.62	1,500.00	1,519.62	Passed	20	20
J-549	True	True	1,500.00	1,600.87	1,500.00	1,600.87	Passed	22	20
J-550	True	True	1,500.00	2,992.02	1,500.00	2,992.02	Passed	39	20
J-551	True	True	1,500.00	1,543.71	1,500.00	1,543.71	Passed	23	22
J-552	True	True	1,500.00	1,515.78	1,596.80	1,612.58	Passed	22	22
J-553	True	True	1,500.00	1,938.75	1,500.00	1,938.75	Passed	27	20
J-554	True	True	1,500.00	1,961.05	1,500.00	1,961.05	Passed	27	20
J-557	True	True	1,500.00	3,268.19	1,500.00	3,268.19	Passed	40	20
J-558	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	46	39
J-559	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	23
J-561	True	True	1,500.00	3,120.70	1,500.00	3,120.70	Passed	36	20
J-562	True	True	1,500.00	2,752.09	1,500.00	2,752.09	Passed	35	20
J-563	True	True	1,500.00	2,692.58	1,500.00	2,692.58	Passed	34	20
J-564	True	True	1,500.00	2,798.22	1,500.00	2,798.22	Passed	35	20
J-565	True	True	1,500.00	3,185.94	1,500.00	3,185.94	Passed	39	20
J-566	True	True	1,500.00	3,147.20	1,500.00	3,147.20	Passed	39	20
J-567	True	True	1,500.00	1,817.82	1,500.00	1,817.82	Passed	26	20
J-568	True	True	1,500.00	1,913.65	1,500.00	1,913.65	Passed	27	20
J-571	True	True	1,500.00	1,631.09	1,500.00	1,631.09	Passed	23	20
J-572	True	True	1,500.00	1,641.74	1,500.00	1,641.74	Passed	23	20
J-577	True	True	1,500.00	1,577.72	1,500.00	1,577.72	Passed	22	20
J-578	True	True	1,500.00	2,017.19	1,500.00	2,017.19	Passed	28	20
J-579	True	True	1,500.00	2,520.29	1,500.00	2,520.29	Passed	34	20
J-580	True	True	1,500.00	2,407.04	1,500.00	2,407.04	Passed	33	20
J-581	True	True	1,500.00	1,655.86	1,500.00	1,655.86	Passed	23	20
J-582	True	True	1,500.00	1,638.73	1,500.00	1,638.73	Passed	23	20
J-583	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	45	33
J-584	True	True	1,500.00	2,731.57	1,500.00	2,731.57	Passed	37	20

Fire Flow Node FlexTable: Fire Flow Results Table

Label	Is Fire Flow Run Balanced?	Satisfies Fire Flow Constraints?	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Fire Flow Status	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Residual) (psi)
J-585	True	True	1,500.00	3,068.63	1,500.00	3,068.63	Passed	39	20
J-586	True	True	1,500.00	1,904.23	1,500.00	1,904.23	Passed	28	20
J-587	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	20
J-589	True	True	1,500.00	1,620.55	1,500.00	1,620.55	Passed	23	20
J-590	True	True	1,500.00	1,600.82	1,500.00	1,600.82	Passed	22	20
J-591	True	True	1,500.00	2,790.63	1,500.00	2,790.63	Passed	36	22
J-592	True	True	1,500.00	2,274.23	1,500.00	2,274.23	Passed	33	20
J-593	True	True	1,500.00	2,022.02	1,500.00	2,022.02	Passed	28	20
J-594	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	25
J-595	True	True	1,500.00	3,070.80	1,500.00	3,070.80	Passed	39	20
J-596	True	True	1,500.00	3,499.99	1,569.05	3,569.04	Passed	42	27
J-597	True	True	1,500.00	1,617.98	1,661.30	1,779.26	Passed	23	20
J-598	True	True	1,500.00	1,583.67	1,500.00	1,583.67	Passed	22	20
J-601	True	True	1,500.00	2,415.20	1,500.00	2,415.20	Passed	33	21
J-605	True	True	1,500.00	1,968.84	1,500.00	1,968.84	Passed	28	20
J-606	True	True	1,500.00	3,159.01	1,500.00	3,159.01	Passed	39	20
J-607	True	True	1,500.00	3,225.89	1,500.00	3,225.89	Passed	40	20
J-608	True	True	1,500.00	2,977.15	1,500.00	2,977.15	Passed	37	20
J-609	True	True	1,500.00	1,905.09	1,581.80	1,986.89	Passed	30	20
J-610	True	True	1,500.00	2,432.48	1,500.00	2,432.48	Passed	36	20
J-611	True	True	1,500.00	1,520.43	1,551.80	1,572.23	Passed	21	20
J-612	True	True	1,500.00	1,895.42	1,500.00	1,895.42	Passed	29	20
J-613	True	True	1,500.00	2,479.19	1,500.00	2,479.19	Passed	36	20
J-614	True	True	1,500.00	1,905.21	1,500.00	1,905.21	Passed	29	20
J-618	True	True	1,500.00	1,591.51	1,500.00	1,591.51	Passed	22	20
J-619	True	True	1,500.00	1,628.61	1,500.00	1,628.61	Passed	23	20
J-620	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	27
J-621	True	True	1,500.00	2,538.28	1,500.00	2,538.28	Passed	38	20
J-622	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	44	33
J-623	True	True	1,500.00	2,471.70	1,500.00	2,471.70	Passed	33	20
J-624	True	True	1,500.00	2,967.60	1,500.00	2,967.60	Passed	39	20
J-627	True	True	1,500.00	1,759.10	1,500.00	1,759.10	Passed	25	20
J-628	True	True	1,500.00	1,851.80	1,550.30	1,902.10	Passed	26	20
J-629	True	True	1,500.00	3,189.65	1,500.00	3,189.65	Passed	40	20
J-630	True	True	1,500.00	2,997.44	1,500.00	2,997.44	Passed	39	20
J-631	True	True	1,500.00	1,627.57	1,500.00	1,627.57	Passed	24	22
J-632	True	True	1,500.00	1,519.83	1,500.00	1,519.83	Passed	21	20
J-635	True	True	1,500.00	2,286.80	1,602.80	2,389.60	Passed	34	20
J-636	True	True	1,500.00	3,032.96	1,500.00	3,032.96	Passed	39	20
J-637	True	True	1,500.00	2,684.47	1,500.00	2,684.47	Passed	38	20
J-639	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	39	21
J-640	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	46	39
J-641	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	46	34
J-643	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	45	31
J-644	True	True	1,500.00	3,102.23	1,500.00	3,102.23	Passed	39	20
J-645	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	46	32
J-646	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	44	33
J-647	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	53	51
J-648	True	True	1,500.00	1,528.51	1,500.00	1,528.51	Passed	21	21
J-650	True	True	1,500.00	2,462.66	1,500.00	2,462.66	Passed	36	20
J-651	True	True	1,500.00	2,878.45	1,500.00	2,878.45	Passed	39	20
J-652	True	True	1,500.00	2,482.86	1,500.00	2,482.86	Passed	37	20
J-676	True	True	1,500.00	2,093.32	1,500.00	2,093.32	Passed	30	20
J-678	True	True	1,500.00	3,215.01	1,500.00	3,215.01	Passed	40	20
J-679	True	True	1,500.00	1,656.07	1,500.00	1,656.07	Passed	25	20
J-680	True	True	1,500.00	1,586.24	1,500.00	1,586.24	Passed	23	20
J-681	True	True	1,500.00	1,586.23	1,500.00	1,586.23	Passed	23	20
J-682	True	True	1,500.00	3,019.46	1,500.00	3,019.46	Passed	37	21
J-683	True	True	1,500.00	2,556.87	1,500.00	2,556.87	Passed	35	20
J-684	True	True	1,500.00	2,383.21	1,500.00	2,383.21	Passed	33	20
J-685	True	True	1,500.00	2,294.74	1,608.80	2,403.54	Passed	33	20
J-686	True	True	1,500.00	2,379.07	1,500.00	2,379.07	Passed	33	20
J-687	True	True	1,500.00	2,397.28	1,500.00	2,397.28	Passed	34	20
J-688	True	True	1,500.00	2,421.21	1,500.00	2,421.21	Passed	34	20
J-691	True	True	1,500.00	2,898.13	1,500.00	2,898.13	Passed	37	21
J-692	True	True	1,500.00	2,051.17	1,500.00	2,051.17	Passed	31	20
J-693	True	True	1,500.00	2,938.83	1,500.00	2,938.83	Passed	38	20
J-694	True	True	1,500.00	2,211.71	1,500.00	2,211.71	Passed	33	20
J-695	True	True	1,500.00	2,385.15	1,500.00	2,385.15	Passed	35	20
J-696	True	True	1,500.00	2,665.04	1,500.00	2,665.04	Passed	37	20
J-697	True	True	1,500.00	2,973.97	1,500.00	2,973.97	Passed	38	20
J-698	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	40	21
J-699	True	True	1,500.00	2,528.62	1,500.00	2,528.62	Passed	36	20
J-700	True	True	1,500.00	3,227.99	1,500.00	3,227.99	Passed	39	22
J-701	True	True	1,500.00	3,265.84	1,500.00	3,265.84	Passed	39	20
J-702	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	40	21
J-703	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	44	32
J-705	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	44	32
J-706	True	True	1,500.00	2,774.36	1,500.00	2,774.36	Passed	38	20
J-707	True	True	1,500.00	2,683.46	1,500.00	2,683.46	Passed	37	20
J-708	True	True	1,500.00	2,495.92	1,500.00	2,495.92	Passed	36	20
J-709	True	True	1,500.00	2,498.59	1,500.00	2,498.59	Passed	36	20
J-710	True	True	1,500.00	2,719.72	1,500.00	2,719.72	Passed	37	20

Fire Flow Node FlexTable: Fire Flow Results Table

Label	Is Fire Flow Run Balanced?	Satisfies Fire Flow Constraints?	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Fire Flow Status	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Residual) (psi)
J-711	True	True	1,500.00	2,486.72	1,500.00	2,486.72	Passed	36	20
J-712	True	True	1,500.00	1,877.67	1,500.00	1,877.67	Passed	29	20
J-713	True	True	1,500.00	2,537.12	1,500.00	2,537.12	Passed	36	20
J-714	True	True	1,500.00	2,984.45	1,500.00	2,984.45	Passed	39	20
J-715	True	True	1,500.00	3,051.87	1,500.00	3,051.87	Passed	39	20
J-716	True	True	1,500.00	2,598.93	1,500.00	2,598.93	Passed	37	20
J-717	True	True	1,500.00	2,000.92	1,500.00	2,000.92	Passed	31	20
J-718	True	True	1,500.00	1,938.78	1,500.00	1,938.78	Passed	30	20
J-719	True	True	1,500.00	1,819.34	1,500.00	1,819.34	Passed	28	20
J-720	True	True	1,500.00	3,278.90	1,500.00	3,278.90	Passed	40	20
J-721	True	True	1,500.00	3,085.93	1,500.00	3,085.93	Passed	39	20
J-722	True	True	1,500.00	3,134.48	1,611.89	3,246.28	Passed	39	20
J-723	True	True	1,500.00	3,002.03	1,500.00	3,002.03	Passed	39	20
J-724	True	True	1,500.00	3,052.54	1,500.00	3,052.54	Passed	39	20
J-725	True	True	1,500.00	2,894.77	1,500.00	2,894.77	Passed	39	20
J-726	True	True	1,500.00	2,824.06	1,577.30	2,901.36	Passed	38	20
J-727	True	True	1,500.00	3,489.51	1,500.00	3,489.51	Passed	41	20
J-728	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	24
J-729	True	True	1,500.00	3,499.99	1,572.80	3,572.79	Passed	42	22
J-730	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	29
J-731	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	44	32
J-732	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	47	41
J-733	True	True	1,500.00	2,038.39	1,500.00	2,038.39	Passed	32	20
J-734	True	True	1,500.00	2,235.80	1,500.00	2,235.80	Passed	34	20
J-735	True	True	1,500.00	3,244.03	1,500.00	3,244.03	Passed	40	20
J-736	True	True	1,500.00	3,181.21	1,500.00	3,181.21	Passed	40	20
J-737	True	True	1,500.00	2,212.09	1,500.00	2,212.09	Passed	34	20
J-738	True	True	1,500.00	1,771.34	1,500.00	1,771.34	Passed	27	20
J-739	True	True	1,500.00	1,661.16	1,500.00	1,661.16	Passed	25	20
J-740	True	True	1,500.00	1,634.24	1,500.00	1,634.24	Passed	24	20
J-741	True	True	1,500.00	3,290.23	1,500.00	3,290.23	Passed	40	20
J-742	True	True	1,500.00	2,913.74	1,500.00	2,913.74	Passed	39	20
J-743	True	True	1,500.00	3,199.81	1,500.00	3,199.81	Passed	40	20
J-744	True	True	1,500.00	2,844.02	1,500.00	2,844.02	Passed	38	20
J-745	True	True	1,500.00	3,161.58	1,500.00	3,161.58	Passed	40	20
J-746	True	True	1,500.00	2,750.81	1,500.00	2,750.81	Passed	38	20
J-747	True	True	1,500.00	3,136.67	1,500.00	3,136.67	Passed	39	20
J-748	True	True	1,500.00	2,269.04	1,500.00	2,269.04	Passed	34	20
J-749	True	True	1,500.00	2,433.56	1,500.00	2,433.56	Passed	36	20
J-751	True	True	1,500.00	1,590.57	1,500.00	1,590.57	Passed	22	20
J-752	True	True	1,500.00	1,663.32	1,500.00	1,663.32	Passed	24	20
J-753	True	True	1,500.00	1,631.65	1,500.00	1,631.65	Passed	23	20
J-754	True	True	1,500.00	1,579.63	1,500.00	1,579.63	Passed	22	20
J-755	True	True	1,500.00	1,627.12	1,500.00	1,627.12	Passed	23	20
J-756	True	True	1,500.00	1,629.71	1,500.00	1,629.71	Passed	23	20
J-757	True	True	1,500.00	1,835.09	1,500.00	1,835.09	Passed	27	20
J-758	True	True	1,500.00	2,764.18	1,500.00	2,764.18	Passed	35	20
J-759	True	True	1,500.00	1,725.36	1,500.00	1,725.36	Passed	25	20
J-760	True	True	1,500.00	1,653.55	1,500.00	1,653.55	Passed	24	20
J-761	True	True	1,500.00	1,550.68	1,500.00	1,550.68	Passed	21	20
J-762	True	True	1,500.00	1,547.74	1,500.00	1,547.74	Passed	21	20
J-763	True	True	1,500.00	1,513.38	1,500.00	1,513.38	Passed	20	20
J-764	True	True	1,500.00	1,503.80	1,500.00	1,503.80	Passed	20	20
J-765	True	True	1,500.00	1,521.42	1,500.00	1,521.42	Passed	21	20
J-766	True	True	1,500.00	1,584.85	1,500.00	1,584.85	Passed	22	20
J-767	True	True	1,500.00	1,648.61	1,500.00	1,648.61	Passed	24	20
J-768	True	True	1,500.00	1,574.34	1,500.00	1,574.34	Passed	22	20
J-769	True	True	1,500.00	1,703.56	1,500.00	1,703.56	Passed	25	20
J-774	True	True	1,500.00	2,026.37	1,500.00	2,026.37	Passed	30	20
J-784	True	True	1,500.00	2,189.93	1,500.00	2,189.93	Passed	30	20
J-785	True	True	1,500.00	2,075.67	1,500.00	2,075.67	Passed	29	20
J-786	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	44	29
J-787	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	44	29
J-788	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	44	31
J-789	True	True	1,500.00	3,491.44	1,500.00	3,491.44	Passed	42	20
J-790	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	21
J-792	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	53	52
J-793	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	53	51
J-794	True	True	1,500.00	1,634.38	1,500.00	1,634.38	Passed	24	20
J-795	True	True	1,500.00	2,491.28	1,500.00	2,491.28	Passed	36	20
J-797	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	55	52
J-798	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	51	47
J-801	True	True	1,500.00	2,795.02	1,571.30	2,866.32	Passed	38	20
J-803	True	True	1,500.00	3,499.99	1,707.05	3,707.04	Passed	48	35
J-804	True	True	1,500.00	3,091.19	1,707.05	3,298.24	Passed	38	20
J-812	True	True	1,500.00	1,881.27	1,581.80	1,963.07	Passed	29	20
J-813	True	True	1,500.00	3,499.99	1,674.80	3,674.79	Passed	41	22
J-814	True	True	1,500.00	2,360.63	1,500.00	2,360.63	Passed	35	20
J-815	True	True	1,500.00	1,686.59	1,556.30	1,742.89	Passed	25	20
J-816	True	True	1,500.00	2,244.10	1,611.05	2,355.15	Passed	34	20
J-817	True	True	1,500.00	2,173.88	1,590.80	2,264.68	Passed	33	20
J-818	True	True	1,500.00	2,078.11	1,590.80	2,168.91	Passed	32	20
J-819	True	True	1,500.00	2,855.63	1,655.30	3,010.93	Passed	38	20

Fire Flow Node FlexTable: Fire Flow Results Table

Label	Is Fire Flow Run Balanced?	Satisfies Fire Flow Constraints?	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Fire Flow Status	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Residual) (psi)
J-820	True	True	1,500.00	2,361.02	1,542.80	2,403.82	Passed	35	20
J-821	True	True	1,500.00	3,499.99	1,617.80	3,617.79	Passed	48	42
J-823	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	48	43
J-1045	True	True	1,500.00	2,339.21	1,500.00	2,339.21	Passed	31	20
J-1048	True	True	1,500.00	1,609.86	1,500.00	1,609.85	Passed	22	20
J-1050	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	30
J-1052	True	True	1,500.00	2,242.15	1,500.00	2,242.15	Passed	34	25
J-1059	True	True	1,500.00	3,345.56	1,500.00	3,345.56	Passed	41	21
J-1060	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	47	39
J-39	True	False	1,500.00	1,321.80	1,500.00	1,321.80	Zone Pressure Failed	19	22
J-40	True	False	1,500.00	1,336.17	1,500.00	1,336.17	Zone Pressure Failed	19	22
J-49	True	False	1,500.00	964.42	1,655.30	1,119.72	Residual Pressure Failed	-10	20
J-56	True	False	1,500.00	945.08	1,500.00	945.08	Residual Pressure Failed	-5	20
J-73	True	False	1,500.00	919.56	1,500.00	919.56	Residual Pressure and Zone Pressure Failed	-12	20
J-74	True	False	1,500.00	884.80	1,500.00	884.80	Residual Pressure Failed	-17	20
J-77	True	False	1,500.00	1,367.75	1,500.00	1,367.75	Residual Pressure and Zone Pressure Failed	15	20
J-78	True	False	1,500.00	1,338.58	1,500.00	1,338.58	Residual Pressure and Zone Pressure Failed	13	20
J-79	True	False	1,500.00	1,106.35	1,500.00	1,106.35	Residual Pressure and Zone Pressure Failed	9	20
J-80	True	False	1,500.00	1,097.92	1,500.00	1,097.92	Residual Pressure and Zone Pressure Failed	8	20
J-85	True	False	1,500.00	1,050.29	1,500.00	1,050.29	Residual Pressure and Zone Pressure Failed	1	20
J-85	True	False	1,500.00	976.34	1,500.00	976.34	Residual Pressure Failed	-5	20
J-88	True	False	1,500.00	1,475.77	1,500.00	1,475.77	Residual Pressure Failed	19	20
J-93	True	False	1,500.00	1,431.78	1,500.00	1,431.78	Residual Pressure Failed	18	20
J-94	True	False	1,500.00	1,450.74	1,500.00	1,450.74	Residual Pressure Failed	19	20
J-97	True	False	1,500.00	817.02	1,500.00	817.02	Residual Pressure and Zone Pressure Failed	-14	20
J-98	True	False	1,500.00	773.08	1,500.00	773.08	Residual Pressure Failed	-21	20
J-100	True	False	1,500.00	1,424.66	1,500.00	1,424.66	Residual Pressure and Zone Pressure Failed	18	20
J-101	True	False	1,500.00	1,221.34	1,500.00	1,221.34	Residual Pressure Failed	8	20
J-102	True	False	1,500.00	881.28	1,500.00	881.28	Residual Pressure and Zone Pressure Failed	-8	20
J-103	True	False	1,500.00	828.40	1,500.00	828.40	Residual Pressure Failed	-15	20

Fire Flow Node FlexTable: Fire Flow Results Table

Label	Is Fire Flow Run Balanced?	Satisfies Fire Flow Constraints?	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Fire Flow Status	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Residual) (psi)
J-104	True	False	1,500.00	577.69	1,500.00	577.69	Residual Pressure and Zone Pressure Failed	-50	20
J-105	True	False	1,500.00	543.07	1,725.80	768.87	Residual Pressure Failed	-59	20
J-106	True	False	1,500.00	1,217.28	1,500.00	1,217.28	Residual Pressure Failed	10	20
J-107	True	False	1,500.00	1,372.13	1,605.05	1,477.18	Residual Pressure and Zone Pressure Failed	16	20
J-108	True	False	1,500.00	813.12	1,500.00	813.12	Residual Pressure and Zone Pressure Failed	-15	20
J-109	True	False	1,500.00	762.97	1,500.00	762.97	Residual Pressure Failed	-22	20
J-110	True	False	1,500.00	1,469.12	1,500.00	1,469.12	Residual Pressure Failed	19	20
J-112	True	False	1,500.00	1,271.21	1,500.00	1,271.21	Residual Pressure Failed	12	20
J-113	True	False	1,500.00	1,450.34	1,500.00	1,450.34	Residual Pressure and Zone Pressure Failed	19	20
J-114	True	False	1,500.00	1,018.85	1,500.00	1,018.85	Residual Pressure and Zone Pressure Failed	1	20
J-115	True	False	1,500.00	1,440.23	1,500.00	1,440.23	Residual Pressure and Zone Pressure Failed	18	20
J-116	True	False	1,500.00	1,328.53	1,500.00	1,328.53	Residual Pressure Failed	13	20
J-117	True	False	1,500.00	1,064.96	1,500.00	1,064.96	Residual Pressure and Zone Pressure Failed	2	20
J-118	True	False	1,500.00	1,083.62	1,500.00	1,083.62	Residual Pressure and Zone Pressure Failed	3	20
J-120	True	False	1,500.00	1,247.80	1,500.00	1,247.80	Residual Pressure Failed	11	20
J-121	True	False	1,500.00	1,407.27	1,500.00	1,407.27	Residual Pressure and Zone Pressure Failed	18	20
J-122	True	False	1,500.00	1,179.49	1,500.00	1,179.49	Residual Pressure Failed	9	20
J-124	True	False	1,500.00	835.45	1,500.00	835.45	Residual Pressure and Zone Pressure Failed	-19	20
J-125	True	False	1,500.00	779.87	1,500.00	779.87	Residual Pressure Failed	-27	20
J-131	True	False	1,500.00	530.86	1,500.00	530.86	Residual Pressure Failed	-90	20
J-132	True	False	1,500.00	870.22	1,716.05	1,086.27	Residual Pressure Failed	-8	20
J-135	True	False	1,500.00	935.66	1,500.00	935.66	Residual Pressure and Zone Pressure Failed	-4	20

Fire Flow Node FlexTable: Fire Flow Results Table

Label	Is Fire Flow Run Balanced?	Satisfies Fire Flow Constraints?	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Fire Flow Status	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Residual) (psi)
J-136	True	False	1,500.00	891.41	1,500.00	891.41	Residual Pressure and Zone Pressure Failed	-8	20
J-139	True	False	1,500.00	1,235.26	1,500.00	1,235.26	Residual Pressure Failed	11	20
J-143	True	False	1,500.00	495.68	1,500.00	495.68	Residual Pressure and Zone Pressure Failed	-85	20
J-144	True	False	1,500.00	507.72	1,500.00	507.72	Residual Pressure and Zone Pressure Failed	-79	20
J-150	True	False	1,500.00	1,442.64	1,500.00	1,442.64	Residual Pressure Failed	18	20
J-160	True	False	1,500.00	1,461.89	1,500.00	1,461.89	Residual Pressure and Zone Pressure Failed	19	20
J-163	True	False	1,500.00	1,163.37	1,500.00	1,163.37	Residual Pressure Failed	8	20
J-164	True	False	1,500.00	1,161.82	1,500.00	1,161.82	Residual Pressure Failed	8	20
J-166	True	False	1,500.00	1,236.71	1,596.05	1,332.76	Residual Pressure Failed	9	20
J-177	True	False	1,500.00	1,089.80	1,500.00	1,089.80	Residual Pressure and Zone Pressure Failed	0	20
J-178	True	False	1,500.00	1,249.12	1,500.00	1,249.12	Residual Pressure and Zone Pressure Failed	10	20
J-182	True	False	1,500.00	1,435.21	1,500.00	1,435.21	Zone Pressure Failed	19	21
J-183	True	False	1,500.00	811.58	1,703.30	1,014.88	Residual Pressure Failed	-16	20
J-187	True	False	1,500.00	1,261.18	1,500.00	1,261.18	Residual Pressure Failed	8	20
J-195	True	False	1,500.00	1,484.38	1,500.00	1,484.38	Residual Pressure Failed	19	20
J-197	True	False	1,500.00	1,330.76	1,500.00	1,330.76	Residual Pressure Failed	13	20
J-209	True	False	1,500.00	1,461.84	1,500.00	1,461.84	Residual Pressure Failed	19	20
J-211	True	False	1,500.00	1,271.48	1,500.00	1,271.48	Residual Pressure Failed	10	20
J-212	True	False	1,500.00	1,429.22	1,500.00	1,429.22	Residual Pressure and Zone Pressure Failed	18	20
J-213	True	False	1,500.00	1,457.44	1,500.00	1,457.44	Residual Pressure and Zone Pressure Failed	19	20
J-215	True	False	1,500.00	1,305.57	1,500.00	1,305.57	Residual Pressure and Zone Pressure Failed	14	20
J-220	True	False	1,500.00	1,474.51	1,500.00	1,474.51	Residual Pressure and Zone Pressure Failed	19	20
J-223	True	False	1,500.00	1,000.23	1,500.00	1,000.23	Residual Pressure and Zone Pressure Failed	-2	20

Fire Flow Node FlexTable: Fire Flow Results Table

Label	Is Fire Flow Run Balanced?	Satisfies Fire Flow Constraints?	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Fire Flow Status	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Residual) (psi)
J-224	True	False	1,500.00	777.92	1,500.00	777.92	Residual Pressure Failed	-27	20
J-227	True	False	1,500.00	1,239.95	1,500.00	1,239.95	Residual Pressure Failed	9	20
J-229	True	False	1,500.00	1,117.78	1,500.00	1,117.78	Residual Pressure Failed	0	20
J-231	True	False	1,500.00	1,390.64	1,500.00	1,390.64	Residual Pressure Failed	15	20
J-233	True	False	1,500.00	1,070.46	1,500.00	1,070.46	Residual Pressure Failed	-5	20
J-238	True	False	1,500.00	957.62	1,500.00	957.62	Residual Pressure Failed	-7	20
J-242	True	False	1,500.00	1,115.51	1,500.00	1,115.51	Residual Pressure Failed	0	20
J-245	True	False	1,500.00	1,107.83	1,628.30	1,236.13	Residual Pressure Failed	0	20
J-250	True	False	1,500.00	1,254.90	1,500.00	1,254.90	Residual Pressure Failed	9	20
J-252	True	False	1,500.00	978.72	1,500.00	978.72	Residual Pressure Failed	-9	20
J-254	True	False	1,500.00	1,039.66	1,500.00	1,039.66	Residual Pressure Failed	-7	20
J-257	True	False	1,500.00	1,338.62	1,500.00	1,338.62	Residual Pressure and Zone Pressure Failed	16	20
J-258	True	False	1,500.00	820.31	1,500.00	820.31	Residual Pressure Failed	-21	20
J-259	True	False	1,500.00	1,394.89	1,500.00	1,394.89	Residual Pressure and Zone Pressure Failed	17	20
J-261	True	False	1,500.00	1,174.70	1,500.00	1,174.70	Residual Pressure Failed	2	20
J-264	True	False	1,500.00	1,343.94	1,500.00	1,343.94	Residual Pressure Failed	16	20
J-265	True	False	1,500.00	1,325.25	1,500.00	1,325.25	Residual Pressure and Zone Pressure Failed	15	20
J-266	True	False	1,500.00	834.30	1,500.00	834.30	Residual Pressure Failed	-20	20
J-272	True	False	1,500.00	964.34	1,638.80	1,103.14	Residual Pressure Failed	-6	20
J-273	True	False	1,500.00	995.19	1,682.30	1,177.49	Residual Pressure Failed	-7	20
J-280	True	False	1,500.00	1,008.86	1,500.00	1,008.86	Residual Pressure Failed	-10	20
J-283	True	False	1,500.00	1,131.58	1,500.00	1,131.58	Zone Pressure Failed	10	22
J-284	True	False	1,500.00	1,051.43	1,500.00	1,051.43	Residual Pressure Failed	2	20
J-285	True	False	1,500.00	1,368.40	1,500.00	1,368.40	Residual Pressure Failed	17	20
J-290	True	False	1,500.00	1,163.59	1,500.00	1,163.59	Residual Pressure Failed	8	20
J-291	True	False	1,500.00	1,210.00	1,500.00	1,210.00	Residual Pressure Failed	10	20
J-292	True	False	1,500.00	1,076.91	1,500.00	1,076.91	Residual Pressure Failed	-2	20
J-293	True	False	1,500.00	1,045.40	1,500.00	1,045.40	Residual Pressure Failed	-5	20

Fire Flow Node FlexTable: Fire Flow Results Table

Label	Is Fire Flow Run Balanced?	Satisfies Fire Flow Constrains?	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Fire Flow Status	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Residual) (psi)
J-295	True	False	1,500.00	726.43	1,725.80	952.23	Residual Pressure Failed	-25	20
J-298	True	False	1,500.00	953.18	1,611.05	1,064.23	Residual Pressure Failed	-12	20
J-302	True	False	1,500.00	1,425.11	1,692.80	1,617.91	Residual Pressure Failed	18	20
J-303	True	False	1,500.00	1,408.16	1,500.00	1,408.16	Residual Pressure Failed	17	20
J-305	True	False	1,500.00	845.53	1,584.80	930.33	Residual Pressure Failed	-20	20
J-308	True	False	1,500.00	1,403.86	1,500.00	1,403.86	Residual Pressure Failed	17	20
J-312	True	False	1,500.00	474.06	1,500.00	474.06	Residual Pressure Failed	-96	20
J-313	True	False	1,500.00	1,189.29	1,500.00	1,189.29	Zone Pressure Failed	12	21
J-322	True	False	1,500.00	901.95	1,500.00	901.95	Residual Pressure Failed	-13	20
J-325	True	False	1,500.00	1,203.60	1,500.00	1,203.60	Zone Pressure Failed	15	22
J-326	True	False	1,500.00	437.05	1,772.30	709.35	Residual Pressure Failed	-74	20
J-328	True	False	1,500.00	916.84	1,500.00	916.84	Residual Pressure Failed	-17	20
J-330	True	False	1,500.00	1,204.36	1,500.00	1,204.36	Residual Pressure and Zone Pressure Failed	11	20
J-332	True	False	1,500.00	1,178.49	1,500.00	1,178.49	Residual Pressure Failed	9	20
J-333	True	False	1,500.00	1,276.41	1,500.00	1,276.41	Residual Pressure Failed	13	20
J-339	True	False	1,500.00	1,146.61	1,500.00	1,146.61	Residual Pressure Failed	1	20
J-350	True	False	1,500.00	1,040.31	1,500.00	1,040.31	Residual Pressure Failed	0	20
J-354	True	False	1,500.00	966.64	1,500.00	966.64	Residual Pressure Failed	-13	20
J-355	True	False	1,500.00	828.00	1,742.30	1,070.30	Residual Pressure Failed	-23	20
J-358	True	False	1,500.00	692.09	1,500.00	692.09	Residual Pressure Failed	-69	20
J-368	True	False	1,500.00	1,100.58	1,500.00	1,100.58	Residual Pressure Failed	0	20
J-400	True	False	1,500.00	1,126.75	1,500.00	1,126.75	Residual Pressure and Zone Pressure Failed	-3	20
J-401	True	False	1,500.00	1,117.53	1,500.00	1,117.53	Residual Pressure Failed	-4	20
J-403	True	False	1,500.00	1,109.60	1,500.00	1,109.60	Residual Pressure and Zone Pressure Failed	9	20
J-408	True	False	1,500.00	1,461.19	1,500.00	1,461.19	Residual Pressure and Zone Pressure Failed	19	20
J-409	True	False	1,500.00	1,463.32	1,500.00	1,463.32	Residual Pressure and Zone Pressure Failed	19	20

Fire Flow Node FlexTable: Fire Flow Results Table

Label	Is Fire Flow Run Balanced?	Satisfies Fire Flow Constraints?	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Fire Flow Status	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Residual) (psi)
J-413	True	False	1,500.00	1,467.60	1,500.00	1,467.60	Residual Pressure and Zone Pressure Failed	19	20
J-414	True	False	1,500.00	1,464.33	1,500.00	1,464.33	Residual Pressure and Zone Pressure Failed	19	20
J-427	True	False	1,500.00	1,462.60	1,500.00	1,462.60	Residual Pressure Failed	19	20
J-434	True	False	1,500.00	1,355.35	1,500.00	1,355.35	Residual Pressure and Zone Pressure Failed	15	20
J-435	True	False	1,500.00	1,318.52	1,500.00	1,318.52	Residual Pressure Failed	13	20
J-436	True	False	1,500.00	1,490.98	1,500.00	1,490.98	Residual Pressure and Zone Pressure Failed	20	20
J-437	True	False	1,500.00	1,442.72	1,500.00	1,442.72	Residual Pressure Failed	18	20
J-441	True	False	1,500.00	1,499.27	1,500.00	1,499.27	Residual Pressure Failed	20	20
J-485	True	False	1,500.00	1,260.29	1,500.00	1,260.29	Zone Pressure Failed	17	22
J-486	True	False	1,500.00	1,285.26	1,500.00	1,285.26	Zone Pressure Failed	18	22
J-487	True	False	1,500.00	1,445.34	1,500.00	1,445.34	Residual Pressure and Zone Pressure Failed	18	20
J-488	True	False	1,500.00	1,440.39	1,500.00	1,440.39	Residual Pressure and Zone Pressure Failed	18	20
J-492	True	False	1,500.00	1,413.25	1,500.00	1,413.25	Zone Pressure Failed	20	21
J-498	True	False	1,500.00	1,361.19	1,622.30	1,483.49	Residual Pressure Failed	15	20
J-499	True	False	1,500.00	1,371.07	1,500.00	1,371.07	Residual Pressure Failed	15	20
J-500	True	False	1,500.00	1,442.43	1,500.00	1,442.43	Residual Pressure Failed	18	20
J-502	True	False	1,500.00	1,497.38	2,016.80	2,014.18	Residual Pressure Failed	20	20
J-506	True	False	1,500.00	1,421.99	1,547.30	1,469.29	Zone Pressure Failed	19	21
J-507	True	False	1,500.00	1,439.85	1,500.00	1,439.85	Zone Pressure Failed	20	22
J-522	True	False	1,500.00	1,416.36	1,500.00	1,416.36	Residual Pressure and Zone Pressure Failed	17	20
J-541	True	False	1,500.00	1,496.61	1,500.00	1,496.61	Zone Pressure Failed	23	23
J-560	True	False	1,500.00	1,447.06	1,500.00	1,447.06	Residual Pressure and Zone Pressure Failed	18	20
J-569	True	False	1,500.00	1,414.30	1,500.00	1,414.30	Zone Pressure Failed	19	21
J-588	True	False	1,500.00	1,159.55	1,500.00	1,159.55	Residual Pressure Failed	8	20
J-599	True	False	1,500.00	1,049.11	1,500.00	1,049.11	Residual Pressure Failed	2	20

Fire Flow Node FlexTable: Fire Flow Results Table

Label	Is Fire Flow Run Balanced?	Satisfies Fire Flow Constraints?	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Fire Flow Status	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Residual) (psi)
J-602	True	False	1,500.00	1,426.46	1,500.00	1,426.46	Zone Pressure Failed	20	22
J-603	True	False	1,500.00	1,345.90	1,500.00	1,345.90	Zone Pressure Failed	19	22
J-604	True	False	1,500.00	1,463.36	1,500.00	1,463.36	Residual Pressure Failed	19	20
J-615	True	False	1,500.00	1,359.14	1,500.00	1,359.14	Zone Pressure Failed	20	23
J-616	True	False	1,500.00	599.42	1,581.80	681.22	Residual Pressure Failed	-54	20
J-625	True	False	1,500.00	1,476.07	1,500.00	1,476.07	Residual Pressure Failed	19	20
J-626	True	False	1,500.00	1,340.23	1,500.00	1,340.23	Residual Pressure and Zone Pressure Failed	16	20
J-633	True	False	1,500.00	1,439.39	1,587.80	1,527.19	Residual Pressure Failed	18	20
J-634	True	False	1,500.00	1,417.81	1,500.00	1,417.81	Zone Pressure Failed	19	21
J-638	True	False	1,500.00	1,200.11	1,587.80	1,287.91	Residual Pressure Failed	7	20
J-642	True	False	1,500.00	1,097.00	1,550.30	1,147.30	Residual Pressure and Zone Pressure Failed	8	20
J-649	True	False	1,500.00	1,414.62	1,500.00	1,414.62	Zone Pressure Failed	20	22
J-653	True	False	1,500.00	1,327.82	1,500.00	1,327.82	Residual Pressure and Zone Pressure Failed	15	20
J-654	True	False	1,500.00	1,330.27	1,500.00	1,330.27	Zone Pressure Failed	19	22
J-655	True	False	1,500.00	1,103.65	1,500.00	1,103.65	Residual Pressure and Zone Pressure Failed	9	20
J-656	True	False	1,500.00	1,109.89	1,500.00	1,109.89	Residual Pressure and Zone Pressure Failed	9	20
J-657	True	False	1,500.00	1,114.74	1,694.30	1,309.04	Residual Pressure and Zone Pressure Failed	9	20
J-658	True	False	1,500.00	1,107.08	1,500.00	1,107.08	Residual Pressure and Zone Pressure Failed	9	20
J-659	True	False	1,500.00	1,108.24	1,500.00	1,108.24	Residual Pressure and Zone Pressure Failed	9	20
J-660	True	False	1,500.00	1,107.31	1,500.00	1,107.31	Residual Pressure and Zone Pressure Failed	9	20
J-661	True	False	1,500.00	1,111.14	1,500.00	1,111.14	Residual Pressure and Zone Pressure Failed	9	20
J-662	True	False	1,500.00	1,106.31	1,500.00	1,106.31	Residual Pressure and Zone Pressure Failed	9	20

Fire Flow Node FlexTable: Fire Flow Results Table

Label	Is Fire Flow Run Balanced?	Satisfies Fire Flow Constraints?	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Fire Flow Status	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Residual) (psi)
J-663	True	False	1,500.00	1,121.26	1,500.00	1,121.26	Residual Pressure and Zone Pressure Failed	9	20
J-664	True	False	1,500.00	1,276.55	1,500.00	1,276.55	Zone Pressure Failed	15	20
J-665	True	False	1,500.00	997.56	1,500.00	997.56	Residual Pressure Failed	3	20
J-666	True	False	1,500.00	1,114.64	1,500.00	1,114.64	Residual Pressure and Zone Pressure Failed	9	20
J-667	True	False	1,500.00	1,069.17	1,500.00	1,069.17	Residual Pressure and Zone Pressure Failed	7	20
J-668	True	False	1,500.00	1,002.33	1,500.00	1,002.33	Residual Pressure Failed	3	20
J-669	True	False	1,500.00	1,033.17	1,500.00	1,033.17	Residual Pressure and Zone Pressure Failed	5	20
J-670	True	False	1,500.00	876.02	1,655.30	1,031.32	Residual Pressure Failed	-6	20
J-671	True	False	1,500.00	1,274.88	1,500.00	1,274.88	Residual Pressure and Zone Pressure Failed	15	20
J-672	True	False	1,500.00	1,117.76	1,500.00	1,117.76	Residual Pressure and Zone Pressure Failed	9	20
J-673	True	False	1,500.00	1,335.53	1,500.00	1,335.53	Residual Pressure Failed	16	20
J-674	True	False	1,500.00	1,343.69	1,500.00	1,343.69	Residual Pressure Failed	16	20
J-675	True	False	1,500.00	1,376.07	1,532.30	1,408.37	Residual Pressure Failed	17	20
J-677	True	False	1,500.00	1,083.92	1,500.00	1,083.92	Residual Pressure Failed	2	20
J-689	True	False	1,500.00	1,464.51	1,500.00	1,464.51	Residual Pressure Failed	19	20
J-690	True	False	1,500.00	1,445.41	1,500.00	1,445.41	Residual Pressure Failed	18	20
J-750	True	False	1,500.00	1,490.69	1,500.00	1,490.69	Residual Pressure Failed	20	20
J-770	True	False	1,500.00	1,272.20	1,500.00	1,272.20	Residual Pressure Failed	13	20
J-771	True	False	1,500.00	1,137.33	1,500.00	1,137.33	Residual Pressure Failed	5	20
J-772	True	False	1,500.00	1,118.93	1,500.00	1,118.93	Residual Pressure and Zone Pressure Failed	4	20
J-773	True	False	1,500.00	1,130.51	1,500.00	1,130.51	Residual Pressure and Zone Pressure Failed	5	20
J-775	True	False	1,500.00	1,188.98	1,500.00	1,188.98	Residual Pressure and Zone Pressure Failed	8	20
J-776	True	False	1,500.00	1,168.61	1,500.00	1,168.61	Residual Pressure and Zone Pressure Failed	7	20

Fire Flow Node FlexTable: Fire Flow Results Table

Label	Is Fire Flow Run Balanced?	Satisfies Fire Flow Constraints?	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Fire Flow Status	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Residual) (psi)
J-777	True	False	1,500.00	1,158.60	1,500.00	1,158.60	Residual Pressure and Zone Pressure Failed	6	20
J-778	True	False	1,500.00	1,142.76	1,500.00	1,142.76	Residual Pressure and Zone Pressure Failed	5	20
J-779	True	False	1,500.00	1,145.79	1,500.00	1,145.79	Residual Pressure and Zone Pressure Failed	6	20
J-780	True	False	1,500.00	1,160.78	1,500.00	1,160.78	Residual Pressure and Zone Pressure Failed	6	20
J-781	True	False	1,500.00	1,161.35	1,500.00	1,161.35	Residual Pressure and Zone Pressure Failed	6	20
J-782	True	False	1,500.00	1,097.86	1,500.00	1,097.86	Residual Pressure Failed	2	20
J-783	True	False	1,500.00	1,082.98	1,577.30	1,160.28	Residual Pressure Failed	2	20
J-791	True	False	1,500.00	1,003.94	1,500.00	1,003.94	Residual Pressure Failed	-11	20
J-799	True	False	1,500.00	1,260.11	1,659.80	1,419.91	Residual Pressure and Zone Pressure Failed	14	20
J-800	True	False	1,500.00	1,042.01	1,577.30	1,119.31	Residual Pressure Failed	2	20
J-802	True	False	1,500.00	1,291.36	1,539.80	1,331.16	Residual Pressure Failed	11	20
J-805	True	False	1,500.00	1,306.31	1,536.80	1,343.11	Residual Pressure Failed	15	20
J-806	True	False	1,500.00	1,054.60	1,520.30	1,074.90	Residual Pressure Failed	2	20
J-807	True	False	1,500.00	1,180.65	1,521.80	1,202.45	Residual Pressure Failed	12	20
J-808	True	False	1,500.00	675.71	1,716.05	891.76	Residual Pressure Failed	-31	20
J-809	True	False	1,500.00	982.12	1,659.80	1,141.92	Residual Pressure Failed	-8	20
J-810	True	False	1,500.00	982.67	1,500.00	982.67	Residual Pressure Failed	-8	20
J-811	True	False	1,500.00	1,017.34	1,632.80	1,150.14	Residual Pressure Failed	-6	20
J-822	True	False	1,500.00	1,182.77	1,655.30	1,338.07	Residual Pressure Failed	9	20
J-1049	True	False	1,500.00	1,111.30	1,500.00	1,111.30	Residual Pressure and Zone Pressure Failed	8	20
J-1053	True	False	1,500.00	1,296.76	1,500.00	1,296.76	Residual Pressure and Zone Pressure Failed	15	20
J-1058	True	False	1,500.00	1,137.48	1,500.00	1,137.48	Residual Pressure Failed	10	20

Scenario: 2027
Low Pressure Analysis
Junction Table
Current Time: 19.00 hours @Peak Flow

ID	Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)	Pressure Head (ft)
40	J-1	100.00	0.00	215.56	50	115.56
41	J-2	100.00	0.00	215.56	50	115.56
55	J-3	100.00	0.00	213.63	49	113.63
56	J-4	100.00	0.00	213.74	49	113.74
58	J-5	100.00	0.00	215.58	50	115.58
59	J-6	100.00	0.00	215.58	50	115.58
61	J-7	100.00	0.00	215.57	50	115.57
62	J-8	100.00	87.80	215.55	50	115.55
64	J-9	100.00	0.00	234.53	58	134.53
67	J-10	100.00	0.00	215.59	50	115.59
69	J-11	100.00	0.00	215.57	50	115.57
71	J-12	100.00	0.00	215.68	50	115.68
74	J-13	100.00	0.00	215.43	50	115.43
76	J-14	100.00	0.00	207.31	46	107.31
77	J-15	100.00	0.00	207.32	46	107.32
79	J-16	100.00	0.00	215.88	50	115.88
81	J-17	100.00	0.00	216.83	51	116.83
82	J-18	100.00	0.00	216.60	50	116.60
84	J-19	100.00	50.30	211.18	48	111.18
85	J-20	100.00	0.00	210.45	48	110.45
89	J-21	100.00	0.00	216.23	50	116.23
91	J-22	100.00	0.00	214.93	50	114.93
93	J-23	100.00	0.00	224.71	54	124.71
94	J-24	100.00	0.00	227.69	55	127.69
96	J-25	100.00	0.00	210.92	48	110.92
97	J-26	100.00	0.00	211.94	48	111.94
99	J-27	100.00	0.00	211.94	48	111.94
100	J-28	100.00	0.00	220.40	52	120.40
105	J-29	100.00	0.00	213.31	49	113.31
108	J-30	100.00	0.00	216.22	50	116.22
109	J-31	100.00	0.00	216.19	50	116.19
111	J-32	100.00	0.00	213.44	49	113.44
113	J-33	100.00	0.00	212.68	49	112.68
114	J-34	100.00	0.00	212.68	49	112.68
116	J-35	100.00	0.00	212.74	49	112.74
117	J-36	100.00	0.00	213.29	49	113.29
119	J-37	100.00	0.00	234.66	58	134.66
120	J-38	100.00	0.00	230.85	57	130.85
122	J-39	100.00	0.00	204.37	45	104.37
123	J-40	100.00	0.00	204.51	45	104.51
125	J-41	100.00	0.00	226.73	55	126.73
126	J-42	100.00	0.00	227.74	55	127.74
128	J-43	100.00	0.00	230.87	57	130.87
129	J-44	100.00	0.00	226.32	55	126.32
131	J-45	100.00	48.80	209.87	48	109.87
132	J-46	100.00	0.00	207.36	46	107.36
138	J-48	100.00	0.00	235.31	59	135.31
146	J-49	100.00	155.30	215.07	50	115.07
147	J-50	100.00	0.00	215.70	50	115.70
153	J-51	100.00	0.00	235.05	58	135.05
161	J-52	100.00	0.00	215.69	50	115.69
162	J-53	100.00	0.00	215.69	50	115.69
164	J-54	100.00	0.00	217.53	51	117.53
165	J-55	100.00	0.00	217.53	51	117.53
173	J-56	100.00	0.00	202.25	44	102.25
178	J-57	100.00	0.00	219.53	52	119.53
179	J-58	100.00	69.05	219.52	52	119.52
181	J-59	100.00	0.00	217.44	51	117.44
182	J-60	100.00	0.00	217.44	51	117.44
184	J-61	100.00	0.00	219.16	52	119.16
185	J-62	100.00	0.00	219.16	52	119.16
187	J-63	100.00	0.00	212.33	49	112.33
188	J-64	100.00	0.00	212.21	49	112.21
190	J-65	100.00	0.00	219.47	52	119.47
191	J-66	100.00	0.00	219.47	52	119.47
196	J-67	100.00	0.00	214.93	50	114.93
197	J-68	100.00	0.00	214.93	50	114.93
206	J-69	100.00	0.00	214.63	50	114.63
209	J-70	100.00	0.00	207.50	47	107.50
211	J-71	100.00	0.00	219.32	52	119.32
212	J-72	100.00	0.00	219.29	52	119.29
214	J-73	100.00	0.00	214.26	49	114.26
215	J-74	100.00	0.00	214.26	49	114.26
217	J-75	100.00	0.00	212.94	49	112.94
218	J-76	100.00	0.00	212.94	49	112.94
221	J-77	100.00	0.00	216.19	50	116.19
223	J-78	100.00	0.00	216.19	50	116.19
225	J-79	100.00	0.00	203.00	45	103.00
226	J-80	100.00	0.00	203.00	45	103.00
230	J-81	100.00	0.00	211.82	48	111.82
231	J-82	100.00	0.00	211.80	48	111.80
233	J-83	100.00	0.00	212.23	49	112.23
234	J-84	100.00	0.00	212.23	49	112.23
236	J-85	100.00	0.00	207.38	46	107.38
237	J-86	100.00	0.00	207.38	46	107.38

Junction Table - Time: 19.00 hours

ID	Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)	Pressure Head (ft)
239	J-87	100.00	0.00	222.23	53	122.23
240	J-88	100.00	0.00	222.23	53	122.23
242	J-89	100.00	0.00	215.65	50	115.65
243	J-90	100.00	0.00	216.13	50	116.13
245	J-91	100.00	0.00	212.19	49	112.19
246	J-92	100.00	0.00	212.19	49	112.19
248	J-93	100.00	0.00	207.63	47	107.63
249	J-94	100.00	0.00	207.63	47	107.63
251	J-95	100.00	0.00	212.15	49	112.15
252	J-96	100.00	0.00	212.16	49	112.16
254	J-97	100.00	0.00	204.82	45	104.82
255	J-98	100.00	0.00	204.82	45	104.82
258	J-99	100.00	0.00	230.02	56	130.02
260	J-100	100.00	0.00	215.86	50	115.86
261	J-101	100.00	0.00	215.86	50	115.86
263	J-102	100.00	0.00	205.16	45	105.16
264	J-103	100.00	0.00	205.16	45	105.16
266	J-104	100.00	0.00	202.42	44	102.42
267	J-105	100.00	225.80	201.93	44	101.93
269	J-106	100.00	0.00	204.42	45	104.42
270	J-107	100.00	105.05	204.42	45	104.42
272	J-108	100.00	0.00	200.74	44	100.74
273	J-109	100.00	0.00	200.74	44	100.74
275	J-110	100.00	0.00	206.10	46	106.10
276	J-111	100.00	105.05	206.10	46	106.10
278	J-112	100.00	0.00	205.29	46	105.29
279	J-113	100.00	0.00	205.29	46	105.29
281	J-114	100.00	0.00	202.25	44	102.25
283	J-115	100.00	0.00	215.70	50	115.70
284	J-116	100.00	0.00	215.70	50	115.70
286	J-117	100.00	0.00	204.30	45	104.30
287	J-118	100.00	0.00	204.30	45	104.30
289	J-119	100.00	0.00	205.54	46	105.54
290	J-120	100.00	0.00	205.54	46	105.54
292	J-121	100.00	0.00	204.30	45	104.30
293	J-122	100.00	0.00	204.30	45	104.30
295	J-123	100.00	0.00	219.47	52	119.47
297	J-124	100.00	0.00	207.32	46	107.32
298	J-125	100.00	0.00	207.32	46	107.32
300	J-126	100.00	0.00	220.63	52	120.63
301	J-127	100.00	0.00	220.63	52	120.63
303	J-128	100.00	0.00	215.70	50	115.70
305	J-129	100.00	0.00	216.19	50	116.19
306	J-130	100.00	0.00	216.19	50	116.19
308	J-131	100.00	0.00	201.11	44	101.11
309	J-132	100.00	216.05	200.60	44	100.60
311	J-133	100.00	0.00	212.34	49	112.34
312	J-134	100.00	0.00	212.34	49	112.34
314	J-135	100.00	0.00	201.15	44	101.15
315	J-136	100.00	0.00	201.11	44	101.11
317	J-137	100.00	96.05	213.51	49	113.51
319	J-138	100.00	0.00	208.33	47	108.33
320	J-139	100.00	0.00	208.33	47	108.33
322	J-140	100.00	0.00	217.44	51	117.44
324	J-141	100.00	0.00	216.18	50	116.18
325	J-142	100.00	0.00	216.13	50	116.13
327	J-143	100.00	0.00	202.42	44	102.42
328	J-144	100.00	0.00	202.42	44	102.42
331	J-145	100.00	0.00	219.40	52	119.40
334	J-146	100.00	242.30	217.01	51	117.01
336	J-147	100.00	0.00	212.16	49	112.16
337	J-148	100.00	0.00	212.19	49	112.19
339	J-149	100.00	0.00	213.82	49	113.82
340	J-150	100.00	0.00	213.64	49	113.64
342	J-151	100.00	0.00	216.19	50	116.19
343	J-152	100.00	0.00	216.19	50	116.19
345	J-153	100.00	0.00	211.36	48	111.36
346	J-154	100.00	0.00	211.36	48	111.36
348	J-155	100.00	0.00	210.97	48	110.97
349	J-156	100.00	0.00	211.02	48	111.02
351	J-157	100.00	0.00	214.98	50	114.98
352	J-158	100.00	0.00	215.02	50	115.02
354	J-159	100.00	0.00	213.55	49	113.55
355	J-160	100.00	0.00	213.49	49	113.49
357	J-161	100.00	0.00	212.14	49	112.14
358	J-162	100.00	0.00	212.10	48	112.10
360	J-163	100.00	0.00	204.31	45	104.31
361	J-164	100.00	0.00	204.31	45	104.31
363	J-165	100.00	0.00	212.73	49	112.73
364	J-166	100.00	96.05	212.52	49	112.52
366	J-167	100.00	0.00	212.51	49	112.51
367	J-168	100.00	0.00	212.43	49	112.43
369	J-169	100.00	0.00	220.17	52	120.17
370	J-170	100.00	0.00	220.40	52	120.40
372	J-171	100.00	0.00	211.78	48	111.78

Junction Table - Time: 19.00 hours

ID	Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)	Pressure Head (ft)
373	J-172	100.00	0.00	211.77	48	111.77
375	J-173	100.00	0.00	217.68	51	117.68
376	J-174	100.00	0.00	216.29	50	116.29
378	J-175	100.00	42.80	211.79	48	111.79
379	J-176	100.00	0.00	211.90	48	111.90
381	J-177	100.00	0.00	210.92	48	110.92
382	J-178	100.00	0.00	211.04	48	111.04
384	J-179	100.00	0.00	216.73	51	116.73
387	J-180	100.00	0.00	212.23	49	112.23
388	J-181	100.00	111.80	212.33	49	112.33
390	J-182	100.00	0.00	203.23	45	103.23
391	J-183	100.00	203.30	201.64	44	101.64
393	J-184	100.00	0.00	214.49	50	114.49
394	J-185	100.00	0.00	213.85	49	113.85
396	J-186	100.00	0.00	228.38	56	128.38
397	J-187	100.00	0.00	228.38	56	128.38
399	J-188	100.00	0.00	211.81	48	111.81
400	J-189	100.00	0.00	211.83	48	111.83
402	J-190	100.00	0.00	212.10	49	112.10
403	J-191	100.00	0.00	212.08	48	112.08
405	J-192	100.00	0.00	218.79	51	118.79
406	J-193	100.00	0.00	219.43	52	119.43
408	J-194	100.00	0.00	222.74	53	122.74
409	J-195	100.00	0.00	222.74	53	122.74
411	J-196	100.00	0.00	222.03	53	122.03
412	J-197	100.00	0.00	222.03	53	122.03
414	J-198	100.00	0.00	207.71	47	107.71
415	J-199	100.00	0.00	207.72	47	107.72
417	J-200	100.00	0.00	207.76	47	107.76
418	J-201	100.00	0.00	207.79	47	107.79
420	J-202	100.00	0.00	212.88	49	112.88
421	J-203	100.00	0.00	212.83	49	112.83
423	J-204	100.00	0.00	219.89	52	119.89
424	J-205	100.00	0.00	218.91	51	118.91
426	J-206	100.00	0.00	212.40	49	112.40
427	J-207	100.00	0.00	212.21	49	112.21
429	J-208	100.00	0.00	212.86	49	112.86
430	J-209	100.00	0.00	212.73	49	112.73
432	J-210	100.00	0.00	221.24	52	121.24
433	J-211	100.00	0.00	221.24	52	121.24
435	J-212	100.00	0.00	213.34	49	113.34
436	J-213	100.00	0.00	213.45	49	113.45
438	J-214	100.00	0.00	207.44	46	107.44
439	J-215	100.00	0.00	206.72	46	106.72
441	J-216	100.00	0.00	219.62	52	119.62
443	J-217	100.00	0.00	215.15	50	115.15
446	J-218	100.00	0.00	211.17	48	111.17
449	J-219	100.00	42.80	209.05	47	109.05
450	J-220	100.00	0.00	207.90	47	107.90
452	J-221	100.00	0.00	210.97	48	110.97
453	J-222	100.00	0.00	208.16	47	108.16
455	J-223	100.00	0.00	207.32	46	107.32
456	J-224	100.00	0.00	207.32	46	107.32
461	J-225	100.00	0.00	213.90	49	113.90
462	J-226	100.00	0.00	213.82	49	113.82
464	J-227	100.00	0.00	223.93	54	123.93
465	J-228	100.00	0.00	223.93	54	123.93
467	J-229	100.00	0.00	215.70	50	115.70
469	J-230	100.00	0.00	226.66	55	126.66
472	J-231	100.00	0.00	228.38	56	128.38
473	J-232	100.00	0.00	228.38	56	128.38
475	J-233	100.00	0.00	216.19	50	116.19
477	J-234	100.00	0.00	207.63	47	107.63
478	J-235	100.00	0.00	207.65	47	107.65
480	J-236	100.00	0.00	216.24	50	116.24
482	J-237	100.00	0.00	207.76	47	107.76
483	J-238	100.00	0.00	207.76	47	107.76
485	J-239	100.00	0.00	219.72	52	119.72
486	J-240	100.00	0.00	221.86	53	121.86
488	J-241	100.00	0.00	215.04	50	115.04
489	J-242	100.00	0.00	215.04	50	115.04
491	J-243	100.00	0.00	216.61	50	116.61
493	J-244	100.00	0.00	213.22	49	113.22
494	J-245	100.00	128.30	212.27	49	112.27
496	J-246	100.00	0.00	211.72	48	111.72
498	J-247	100.00	0.00	210.92	48	110.92
499	J-248	100.00	0.00	210.57	48	110.57
501	J-249	100.00	0.00	219.93	52	119.93
502	J-250	100.00	0.00	219.93	52	119.93
504	J-251	100.00	0.00	207.25	46	107.25
505	J-252	100.00	0.00	207.25	46	107.25
507	J-253	100.00	0.00	219.51	52	119.51
508	J-254	100.00	0.00	219.51	52	119.51
513	J-257	100.00	0.00	207.32	46	107.32
514	J-258	100.00	0.00	207.32	46	107.32

Junction Table - Time: 19.00 hours

ID	Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)	Pressure Head (ft)
517	J-259	100.00	0.00	203.52	45	103.52
519	J-260	100.00	0.00	230.78	57	130.78
520	J-261	100.00	0.00	230.78	57	130.78
522	J-262	100.00	0.00	219.29	52	119.29
523	J-263	100.00	0.00	220.64	52	120.64
525	J-264	100.00	0.00	207.73	47	107.73
526	J-265	100.00	0.00	207.58	47	107.58
528	J-266	100.00	0.00	207.38	46	107.38
529	J-267	100.00	0.00	207.38	46	107.38
531	J-268	100.00	0.00	210.84	48	110.84
532	J-269	100.00	0.00	210.36	48	110.36
534	J-270	100.00	0.00	216.34	50	116.34
535	J-271	100.00	0.00	222.27	53	122.27
537	J-272	100.00	138.86	210.20	48	110.20
539	J-273	100.00	182.30	212.40	49	112.40
540	J-274	100.00	0.00	213.91	49	113.91
542	J-275	100.00	0.00	212.22	49	112.22
543	J-276	100.00	0.00	212.21	49	112.21
545	J-277	100.00	0.00	213.76	49	113.76
546	J-278	100.00	0.00	214.79	50	114.79
548	J-279	100.00	0.00	214.20	49	114.20
549	J-280	100.00	0.00	214.20	49	114.20
551	J-281	100.00	0.00	212.92	49	112.92
552	J-282	100.00	0.00	212.80	49	112.80
554	J-283	100.00	0.00	205.66	46	105.66
555	J-284	100.00	0.00	206.72	46	106.72
557	J-285	100.00	0.00	208.48	47	108.48
558	J-286	100.00	0.00	208.62	47	108.62
560	J-287	100.00	0.00	227.41	55	127.41
561	J-288	100.00	0.00	230.02	56	130.02
563	J-289	100.00	0.00	212.72	49	112.72
565	J-290	100.00	0.00	204.31	45	104.31
566	J-291	100.00	0.00	204.29	45	104.29
568	J-292	100.00	0.00	213.64	49	113.64
569	J-293	100.00	0.00	213.45	49	113.45
571	J-294	100.00	0.00	209.34	47	109.34
573	J-295	100.00	225.80	204.20	45	104.20
574	J-296	100.00	0.00	207.84	47	107.84
576	J-297	100.00	0.00	211.80	48	111.80
577	J-298	100.00	111.05	210.26	48	110.26
579	J-299	100.00	0.00	214.68	50	114.68
580	J-300	100.00	0.00	215.25	50	115.25
582	J-301	100.00	0.00	219.24	52	119.24
583	J-302	100.00	192.80	218.93	51	118.93
585	J-303	100.00	0.00	204.37	45	104.37
586	J-304	100.00	0.00	204.26	45	104.26
588	J-305	100.00	0.00	216.28	50	116.28
589	J-306	100.00	84.80	214.35	49	114.35
591	J-307	100.00	0.00	212.78	49	112.78
592	J-308	100.00	0.00	212.83	49	112.83
594	J-309	100.00	0.00	215.52	50	115.52
595	J-310	100.00	0.00	215.41	50	115.41
597	J-311	100.00	0.00	238.55	60	138.55
599	J-312	100.00	0.00	202.42	44	102.42
600	J-313	100.00	0.00	205.77	46	105.77
602	J-314	100.00	0.00	222.74	53	122.74
604	J-315	100.00	0.00	212.07	48	112.07
605	J-316	100.00	0.00	212.21	49	112.21
607	J-317	100.00	0.00	212.33	49	112.33
608	J-318	100.00	0.00	212.42	49	112.42
610	J-319	100.00	0.00	210.46	48	110.46
611	J-320	100.00	0.00	211.75	48	111.75
613	J-321	100.00	0.00	204.24	45	104.24
614	J-322	100.00	0.00	204.30	45	104.30
616	J-323	100.00	50.30	227.72	55	127.72
619	J-325	100.00	0.00	203.59	45	103.59
620	J-326	100.00	272.30	197.07	42	97.07
622	J-327	100.00	125.30	211.92	48	111.92
623	J-328	100.00	0.00	210.92	48	110.92
625	J-329	100.00	0.00	207.55	47	107.55
626	J-330	100.00	0.00	208.86	47	108.86
628	J-331	100.00	0.00	214.01	49	114.01
629	J-332	100.00	0.00	209.68	47	109.68
631	J-333	100.00	0.00	203.33	45	103.33
632	J-334	100.00	0.00	207.81	47	107.81
634	J-335	100.00	0.00	217.05	51	117.05
636	J-336	100.00	0.00	218.44	51	118.44
639	J-338	100.00	0.00	208.00	47	108.00
641	J-339	100.00	0.00	227.50	55	127.50
644	J-340	100.00	117.80	219.69	52	119.69
645	J-341	100.00	0.00	223.01	53	123.01
650	J-342	100.00	0.00	217.34	51	117.34
653	J-343	100.00	0.00	214.39	49	114.39
655	J-344	100.00	0.00	207.32	46	107.32
657	J-345	100.00	0.00	212.14	49	112.14

Junction Table - Time: 19.00 hours

ID	Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)	Pressure Head (ft)
658	J-346	100.00	0.00	212.21	49	112.21
660	J-347	100.00	0.00	220.73	52	120.73
661	J-348	100.00	0.00	234.16	58	134.16
663	J-349	100.00	0.00	207.15	46	107.15
664	J-350	100.00	0.00	204.30	45	104.30
666	J-351	100.00	0.00	215.12	50	115.12
667	J-352	100.00	0.00	222.83	53	122.83
670	J-353	100.00	0.00	215.02	50	115.02
671	J-354	100.00	0.00	213.53	49	113.53
673	J-355	100.00	242.30	213.60	49	113.60
676	J-357	100.00	0.00	217.16	51	117.16
677	J-358	100.00	0.00	217.16	51	117.16
682	J-359	100.00	0.00	212.82	49	112.82
683	J-360	100.00	0.00	211.75	48	111.75
685	J-361	100.00	0.00	228.34	56	128.34
686	J-362	100.00	0.00	214.80	50	114.80
688	J-363	100.00	0.00	228.43	56	128.43
689	J-364	100.00	0.00	214.80	50	114.80
691	J-365	100.00	0.00	207.81	47	107.81
692	J-366	100.00	0.00	221.90	53	121.90
695	J-367	100.00	0.00	210.95	48	110.95
696	J-368	100.00	0.00	211.83	48	111.83
701	J-369	100.00	0.00	219.15	52	119.15
707	J-370	100.00	0.00	216.22	50	116.22
708	J-371	100.00	0.00	216.22	50	116.22
710	J-372	100.00	0.00	207.66	47	107.66
711	J-373	100.00	0.00	207.66	47	107.66
713	J-374	100.00	0.00	207.39	46	107.39
718	J-375	100.00	0.00	214.03	49	114.03
723	J-378	100.00	0.00	223.37	53	123.37
724	J-379	100.00	0.00	223.37	53	123.37
726	J-380	100.00	0.00	212.42	49	112.42
728	J-381	100.00	0.00	207.79	47	107.79
729	J-382	100.00	0.00	207.77	47	107.77
737	J-383	100.00	0.00	212.79	49	112.79
738	J-384	100.00	0.00	212.77	49	112.77
750	J-386	100.00	0.00	213.32	49	113.32
751	J-387	100.00	0.00	213.19	49	113.19
753	J-388	100.00	0.00	215.90	50	115.90
756	J-389	100.00	0.00	209.19	47	109.19
757	J-390	100.00	0.00	209.10	47	109.10
759	J-391	100.00	0.00	207.63	47	107.63
760	J-392	100.00	0.00	207.63	47	107.63
762	J-393	100.00	0.00	207.79	47	107.79
764	J-394	100.00	0.00	224.79	54	124.79
765	J-395	100.00	0.00	224.79	54	124.79
767	J-396	100.00	0.00	224.80	54	124.80
768	J-397	100.00	0.00	224.80	54	124.80
775	J-398	100.00	0.00	212.68	49	112.68
776	J-399	100.00	0.00	212.68	49	112.68
778	J-400	100.00	0.00	235.31	59	135.31
779	J-401	100.00	0.00	235.31	59	135.31
783	J-403	100.00	0.00	203.02	45	103.02
787	J-404	100.00	0.00	215.65	50	115.65
788	J-405	100.00	0.00	215.60	50	115.60
790	J-406	100.00	0.00	215.17	50	115.17
796	J-408	100.00	0.00	211.85	48	111.85
797	J-409	100.00	0.00	211.84	48	111.84
801	J-410	100.00	0.00	221.93	53	121.93
802	J-411	100.00	23.30	221.93	53	121.93
804	J-412	100.00	0.00	219.89	52	119.89
806	J-413	100.00	0.00	211.92	48	111.92
807	J-414	100.00	0.00	211.91	48	111.91
809	J-415	100.00	0.00	216.22	50	116.22
810	J-416	100.00	0.00	216.22	50	116.22
812	J-417	100.00	0.00	230.78	57	130.78
813	J-418	100.00	138.80	230.78	57	130.78
820	J-419	100.00	0.00	212.26	49	112.26
821	J-420	100.00	0.00	212.26	49	112.26
823	J-421	100.00	0.00	207.88	47	107.88
824	J-422	100.00	0.00	207.85	47	107.85
841	J-423	100.00	0.00	214.25	49	114.25
842	J-424	100.00	0.00	214.25	49	114.25
853	J-425	100.00	0.00	219.12	52	119.12
855	J-426	100.00	0.00	208.35	47	108.35
856	J-427	100.00	0.00	208.35	47	108.35
859	J-428	100.00	0.00	212.73	49	112.73
861	J-429	100.00	0.00	207.16	46	107.16
862	J-430	100.00	0.00	207.16	46	107.16
864	J-431	100.00	0.00	207.62	47	107.62
865	J-432	100.00	0.00	207.62	47	107.62
868	J-433	100.00	0.00	212.26	49	112.26
870	J-434	100.00	0.00	212.26	49	112.26
871	J-435	100.00	0.00	212.26	49	112.26
873	J-436	100.00	0.00	212.26	49	112.26

Junction Table - Time: 19.00 hours

ID	Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)	Pressure Head (ft)
874	J-437	100.00	0.00	212.26	49	112.26
877	J-438	100.00	0.00	212.17	49	112.17
879	J-439	100.00	0.00	217.00	51	117.00
880	J-440	100.00	0.00	217.01	51	117.01
882	J-441	100.00	0.00	207.62	47	107.62
884	J-442	100.00	0.00	213.22	49	113.22
888	J-443	100.00	0.00	230.78	57	130.78
889	J-444	100.00	0.00	230.78	57	130.78
891	J-445	100.00	0.00	207.76	47	107.76
892	J-446	100.00	0.00	207.67	47	107.67
894	J-447	100.00	0.00	224.81	54	124.81
895	J-448	100.00	0.00	224.82	54	124.82
897	J-449	100.00	0.00	224.78	54	124.78
898	J-450	100.00	0.00	224.77	54	124.77
903	J-451	100.00	0.00	205.29	46	105.29
904	J-452	100.00	0.00	205.33	46	105.33
909	J-454	100.00	0.00	205.23	46	105.23
911	J-455	100.00	0.00	214.80	50	114.80
912	J-456	100.00	0.00	214.80	50	114.80
916	J-457	100.00	0.00	207.62	47	107.62
918	J-458	100.00	0.00	212.68	49	112.68
920	J-459	100.00	0.00	211.80	48	111.80
921	J-460	100.00	0.00	211.81	48	111.81
923	J-461	100.00	0.00	207.69	47	107.69
925	J-462	100.00	0.00	211.81	48	111.81
927	J-463	100.00	0.00	206.97	46	106.97
928	J-464	100.00	80.30	206.98	46	106.98
930	J-465	100.00	80.30	207.09	46	107.09
933	J-467	100.00	0.00	217.18	51	117.18
934	J-468	100.00	0.00	217.25	51	117.25
939	J-470	100.00	0.00	208.52	47	108.52
944	J-471	100.00	0.00	211.61	48	111.61
945	J-472	100.00	155.36	211.61	48	111.61
947	J-473	100.00	0.00	212.82	49	112.82
948	J-474	100.00	0.00	212.90	49	112.90
951	J-475	100.00	0.00	214.53	50	114.53
953	J-476	100.00	0.00	214.56	50	114.56
956	J-477	100.00	0.00	215.74	50	115.74
957	J-478	100.00	0.00	215.72	50	115.72
959	J-479	100.00	0.00	214.57	50	114.57
960	J-480	100.00	0.00	214.49	50	114.49
962	J-481	100.00	0.00	209.69	47	109.69
963	J-482	100.00	0.00	210.26	48	110.26
965	J-483	100.00	0.00	212.14	49	112.14
966	J-484	100.00	0.00	212.15	49	112.15
968	J-485	100.00	0.00	203.76	45	103.76
969	J-486	100.00	0.00	204.00	45	104.00
971	J-487	100.00	0.00	213.50	49	113.50
972	J-488	100.00	0.00	213.53	49	113.53
974	J-489	100.00	0.00	216.41	50	116.41
977	J-490	100.00	0.00	218.75	51	118.75
978	J-491	100.00	0.00	218.78	51	118.78
980	J-492	100.00	0.00	205.53	46	105.53
986	J-494	100.00	0.00	214.58	50	114.58
987	J-495	100.00	0.00	214.93	50	114.93
989	J-496	100.00	0.00	216.69	50	116.69
994	J-498	100.00	122.30	213.42	49	113.42
995	J-499	100.00	0.00	213.45	49	113.45
998	J-500	100.00	0.00	213.50	49	113.50
1001	J-502	100.00	516.80	204.55	45	104.55
1003	J-503	100.00	0.00	213.39	49	113.39
1005	J-504	100.00	0.00	205.21	46	105.21
1006	J-505	100.00	0.00	205.92	46	105.92
1008	J-506	100.00	47.30	205.63	46	105.63
1009	J-507	100.00	0.00	205.88	46	105.88
1011	J-508	100.00	0.00	216.22	50	116.22
1012	J-509	100.00	0.00	216.22	50	116.22
1014	J-510	100.00	0.00	217.00	51	117.00
1015	J-511	100.00	0.00	217.00	51	117.00
1017	J-512	100.00	0.00	214.14	49	114.14
1019	J-513	100.00	0.00	212.90	49	112.90
1020	J-514	100.00	0.00	213.00	49	113.00
1024	J-515	100.00	0.00	219.00	51	119.00
1030	J-516	100.00	0.00	227.44	55	127.44
1031	J-517	100.00	0.00	228.43	56	128.43
1033	J-518	100.00	0.00	208.99	47	108.99
1034	J-519	100.00	0.00	208.95	47	108.95
1036	J-520	100.00	0.00	214.60	50	114.60
1037	J-521	100.00	0.00	214.56	50	114.56
1040	J-522	100.00	0.00	211.83	48	111.83
1043	J-523	100.00	0.00	207.34	46	107.34
1047	J-525	100.00	0.00	207.45	46	107.45
1048	J-526	100.00	0.00	207.45	46	107.45
1054	J-527	100.00	0.00	214.59	50	114.59
1057	J-528	100.00	0.00	206.60	46	106.60

Junction Table - Time: 19.00 hours

ID	Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)	Pressure Head (ft)
1061	J-529	100.00	81.80	218.78	51	118.78
1062	J-530	100.00	0.00	219.02	51	119.02
1064	J-531	100.00	0.00	211.94	48	111.94
1066	J-532	100.00	131.30	216.97	51	116.97
1067	J-533	100.00	0.00	217.05	51	117.05
1074	J-535	100.00	0.00	207.46	46	107.46
1075	J-536	100.00	0.00	207.36	46	107.36
1078	J-537	100.00	0.00	212.00	48	112.00
1082	J-538	100.00	0.00	205.23	46	105.23
1084	J-539	100.00	212.30	207.54	47	107.54
1088	J-540	100.00	0.00	219.36	52	119.36
1091	J-541	100.00	0.00	207.52	47	107.52
1095	J-542	100.00	0.00	208.28	47	108.28
1097	J-543	100.00	0.00	207.58	47	107.58
1100	J-544	100.00	0.00	207.58	47	107.58
1101	J-545	100.00	0.00	207.57	47	107.57
1103	J-546	100.00	0.00	207.33	46	107.33
1104	J-547	100.00	242.30	206.92	46	106.92
1105	J-548	100.00	0.00	205.27	46	105.27
1107	J-549	100.00	0.00	205.28	46	105.28
1110	J-550	100.00	0.00	216.96	51	116.96
1112	J-551	100.00	0.00	207.00	46	107.00
1113	J-552	100.00	96.80	206.71	46	106.71
1116	J-553	100.00	0.00	206.87	46	106.87
1117	J-554	100.00	0.00	206.78	46	106.78
1122	J-557	100.00	0.00	219.22	52	119.22
1125	J-558	100.00	0.00	212.18	49	112.18
1126	J-559	100.00	0.00	212.15	49	112.15
1128	J-560	100.00	0.00	213.50	49	113.50
1135	J-561	100.00	0.00	212.46	49	112.46
1136	J-562	100.00	0.00	211.17	48	111.17
1138	J-563	100.00	0.00	211.42	48	111.42
1139	J-564	100.00	0.00	211.93	48	111.93
1141	J-565	100.00	0.00	217.02	51	117.02
1142	J-566	100.00	0.00	217.09	51	117.09
1144	J-567	100.00	0.00	206.77	46	106.77
1145	J-568	100.00	0.00	206.51	46	106.51
1147	J-569	100.00	0.00	205.52	46	105.52
1152	J-571	100.00	0.00	205.26	46	105.26
1153	J-572	100.00	0.00	205.26	46	105.26
1161	J-577	100.00	0.00	206.77	46	106.77
1162	J-578	100.00	0.00	207.05	46	107.05
1164	J-579	100.00	0.00	207.52	47	107.52
1165	J-580	100.00	0.00	207.58	47	107.58
1167	J-581	100.00	0.00	205.24	46	105.24
1168	J-582	100.00	0.00	205.25	46	105.25
1170	J-583	100.00	0.00	215.65	50	115.65
1174	J-584	100.00	0.00	217.30	51	117.30
1177	J-585	100.00	0.00	217.00	51	117.00
1181	J-586	100.00	0.00	209.25	47	109.25
1183	J-587	100.00	0.00	216.22	50	116.22
1186	J-588	100.00	0.00	206.77	46	106.77
1188	J-589	100.00	0.00	205.03	45	105.03
1189	J-590	100.00	0.00	205.25	46	105.25
1191	J-591	100.00	0.00	218.71	51	118.71
1192	J-592	100.00	0.00	218.81	51	118.81
1194	J-593	100.00	0.00	207.20	46	107.20
1196	J-594	100.00	0.00	216.37	50	116.37
1197	J-595	100.00	0.00	215.71	50	115.71
1199	J-596	100.00	69.05	214.56	50	114.56
1201	J-597	100.00	161.30	209.01	47	109.01
1204	J-598	100.00	0.00	205.28	46	105.28
1205	J-599	100.00	0.00	205.25	46	105.25
1210	J-601	100.00	0.00	206.83	46	106.83
1212	J-602	100.00	0.00	205.69	46	105.69
1213	J-603	100.00	0.00	204.68	45	104.68
1216	J-604	100.00	0.00	207.58	47	107.58
1217	J-605	100.00	0.00	207.31	46	107.31
1219	J-606	100.00	0.00	215.71	50	115.71
1220	J-607	100.00	0.00	215.89	50	115.89
1222	J-608	100.00	0.00	208.35	47	108.35
1224	J-609	100.00	81.80	224.75	54	124.75
1225	J-610	100.00	0.00	224.86	54	124.86
1227	J-611	100.00	51.80	206.82	46	106.82
1230	J-612	100.00	0.00	224.78	54	124.78
1231	J-613	100.00	0.00	224.80	54	124.80
1233	J-614	100.00	0.00	212.29	49	112.29
1235	J-615	100.00	0.00	205.77	46	105.77
1236	J-616	100.00	81.80	205.07	45	105.07
1240	J-618	100.00	0.00	205.27	46	105.27
1241	J-619	100.00	0.00	205.24	46	105.24
1246	J-620	100.00	0.00	224.77	54	124.77
1247	J-621	100.00	0.00	227.50	55	127.50
1249	J-622	100.00	0.00	225.21	54	125.21
1252	J-623	100.00	0.00	210.02	48	110.02

Junction Table - Time: 19.00 hours

ID	Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)	Pressure Head (ft)
1254	J-624	100.00	0.00	213.35	49	113.35
1257	J-625	100.00	0.00	207.05	46	107.05
1258	J-626	100.00	0.00	206.48	46	106.48
1262	J-627	100.00	0.00	205.76	46	105.76
1265	J-628	100.00	50.30	207.72	47	107.72
1267	J-629	100.00	0.00	215.70	50	115.70
1268	J-630	100.00	0.00	215.79	50	115.79
1270	J-631	100.00	0.00	207.69	47	107.69
1271	J-632	100.00	0.00	206.80	46	106.80
1275	J-633	100.00	87.80	211.84	48	111.84
1281	J-634	100.00	0.00	205.51	46	105.51
1283	J-635	100.00	102.80	217.26	51	117.26
1284	J-636	100.00	0.00	219.24	52	119.24
1287	J-637	100.00	0.00	213.39	49	113.39
1288	J-638	100.00	87.80	213.03	49	113.03
1294	J-639	100.00	0.00	209.84	48	109.84
1297	J-640	100.00	0.00	216.27	50	116.27
1298	J-641	100.00	0.00	223.21	53	123.21
1305	J-642	100.00	50.30	202.99	45	102.99
1322	J-643	100.00	0.00	221.62	53	121.62
1326	J-644	100.00	0.00	217.10	51	117.10
1330	J-645	100.00	0.00	227.41	55	127.41
1339	J-646	100.00	0.00	214.34	49	114.34
2181	J-647	100.00	0.00	236.85	59	136.85
2186	J-648	100.00	0.00	203.33	45	103.33
2192	J-649	100.00	0.00	205.53	46	105.53
2199	J-650	100.00	0.00	217.21	51	117.21
2204	J-651	100.00	0.00	217.19	51	117.19
2212	J-652	100.00	0.00	219.62	52	119.62
2215	J-653	100.00	0.00	204.31	45	104.31
2226	J-654	100.00	0.00	204.43	45	104.43
2245	J-655	100.00	0.00	203.00	45	103.00
2250	J-656	100.00	0.00	203.00	45	103.00
2276	J-657	100.00	194.30	202.98	45	102.98
2278	J-658	100.00	0.00	203.02	45	103.02
2280	J-659	100.00	0.00	202.99	45	102.99
2281	J-660	100.00	0.00	203.00	45	103.00
2283	J-661	100.00	0.00	203.00	45	103.00
2285	J-662	100.00	0.00	203.00	45	103.00
2288	J-663	100.00	0.00	203.02	45	103.02
2294	J-664	100.00	0.00	203.49	45	103.49
2297	J-665	100.00	0.00	203.02	45	103.02
2300	J-666	100.00	0.00	203.02	45	103.02
2302	J-667	100.00	0.00	203.02	45	103.02
2304	J-668	100.00	0.00	203.02	45	103.02
2306	J-669	100.00	0.00	203.02	45	103.02
2309	J-670	100.00	155.30	202.88	45	102.88
2311	J-671	100.00	0.00	203.47	45	103.47
2317	J-672	100.00	0.00	203.03	45	103.03
2325	J-673	100.00	0.00	206.42	46	106.42
2328	J-674	100.00	0.00	205.88	46	105.88
2330	J-675	100.00	32.30	205.68	46	105.68
2335	J-676	100.00	0.00	215.00	50	115.00
2338	J-677	100.00	0.00	215.00	50	115.00
2340	J-678	100.00	0.00	218.97	51	118.97
2343	J-679	100.00	0.00	218.97	51	118.97
2345	J-680	100.00	0.00	218.97	51	118.97
2347	J-681	100.00	0.00	218.97	51	118.97
2349	J-682	100.00	0.00	219.74	52	119.74
2352	J-683	100.00	0.00	219.35	52	119.35
2354	J-684	100.00	0.00	219.29	52	119.29
2356	J-685	100.00	108.80	219.07	52	119.07
2358	J-686	100.00	0.00	219.06	52	119.06
2362	J-687	100.00	0.00	219.18	52	119.18
2365	J-688	100.00	0.00	219.19	52	119.19
2369	J-689	100.00	0.00	218.75	51	118.75
2371	J-690	100.00	0.00	218.78	51	118.78
2373	J-691	100.00	0.00	219.26	52	119.26
2376	J-692	100.00	0.00	220.55	52	120.55
2378	J-693	100.00	0.00	221.43	53	121.43
2380	J-694	100.00	0.00	221.84	53	121.84
2382	J-695	100.00	0.00	222.12	53	122.12
2384	J-696	100.00	0.00	222.10	53	122.10
2386	J-697	100.00	0.00	221.99	53	121.99
2388	J-698	100.00	0.00	221.52	53	121.52
2392	J-699	100.00	0.00	222.04	53	122.04
2396	J-700	100.00	0.00	220.68	52	120.68
2400	J-701	100.00	0.00	222.05	53	122.05
2404	J-702	100.00	0.00	222.47	53	122.47
2408	J-703	100.00	0.00	224.28	54	124.28
2414	J-705	100.00	0.00	225.19	54	125.19
2418	J-706	100.00	0.00	217.00	51	117.00
2420	J-707	100.00	0.00	216.99	51	116.99
2422	J-708	100.00	0.00	216.99	51	116.99
2423	J-709	100.00	0.00	216.99	51	116.99

Junction Table - Time: 19.00 hours

ID	Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)	Pressure Head (ft)
2425	J-710	100.00	0.00	217.00	51	117.00
2429	J-711	100.00	0.00	217.00	51	117.00
2431	J-712	100.00	0.00	216.99	51	116.99
2434	J-713	100.00	0.00	216.82	51	116.82
2436	J-714	100.00	0.00	216.95	51	116.95
2440	J-715	100.00	0.00	217.08	51	117.08
2443	J-716	100.00	0.00	217.08	51	117.08
2445	J-717	100.00	0.00	217.08	51	117.08
2447	J-718	100.00	0.00	217.08	51	117.08
2449	J-719	100.00	0.00	217.08	51	117.08
2451	J-720	100.00	0.00	217.08	51	117.08
2454	J-721	100.00	0.00	217.15	51	117.15
2456	J-722	100.00	111.80	217.18	51	117.18
2458	J-723	100.00	0.00	217.19	51	117.19
2462	J-724	100.00	0.00	217.63	51	117.63
2464	J-725	100.00	0.00	217.79	51	117.79
2468	J-726	100.00	77.30	217.72	51	117.72
2470	J-727	100.00	0.00	218.64	51	118.64
2474	J-728	100.00	0.00	219.67	52	119.67
2476	J-729	100.00	72.80	219.69	52	119.69
2478	J-730	100.00	0.00	220.10	52	120.10
2480	J-731	100.00	0.00	220.14	52	120.14
2483	J-732	100.00	0.00	226.73	55	126.73
2495	J-733	100.00	0.00	215.71	50	115.71
2496	J-734	100.00	0.00	215.71	50	115.71
2498	J-735	100.00	0.00	215.71	50	115.71
2502	J-736	100.00	0.00	215.74	50	115.74
2505	J-737	100.00	0.00	215.74	50	115.74
2507	J-738	100.00	0.00	215.74	50	115.74
2509	J-739	100.00	0.00	215.74	50	115.74
2511	J-740	100.00	0.00	215.74	50	115.74
2513	J-741	100.00	0.00	215.85	50	115.85
2516	J-742	100.00	0.00	215.85	50	115.85
2518	J-743	100.00	0.00	215.81	50	115.81
2521	J-744	100.00	0.00	215.81	50	115.81
2523	J-745	100.00	0.00	215.77	50	115.77
2526	J-746	100.00	0.00	215.77	50	115.77
2528	J-747	100.00	0.00	212.74	49	112.74
2531	J-748	100.00	0.00	212.77	49	112.77
2533	J-749	100.00	0.00	212.78	49	112.78
2537	J-750	100.00	0.00	207.57	47	107.57
2538	J-751	100.00	0.00	207.57	47	107.57
2540	J-752	100.00	0.00	207.57	47	107.57
2542	J-753	100.00	0.00	207.57	47	107.57
2544	J-754	100.00	0.00	207.57	47	107.57
2548	J-755	100.00	0.00	207.57	47	107.57
2550	J-756	100.00	0.00	207.57	47	107.57
2554	J-757	100.00	0.00	207.57	47	107.57
2556	J-758	100.00	0.00	207.57	47	107.57
2560	J-759	100.00	0.00	207.57	47	107.57
2562	J-760	100.00	0.00	207.57	47	107.57
2564	J-761	100.00	0.00	207.57	47	107.57
2566	J-762	100.00	0.00	207.57	47	107.57
2568	J-763	100.00	0.00	207.57	47	107.57
2570	J-764	100.00	0.00	207.57	47	107.57
2572	J-765	100.00	0.00	207.57	47	107.57
2574	J-766	100.00	0.00	207.57	47	107.57
2576	J-767	100.00	0.00	207.57	47	107.57
2578	J-768	100.00	0.00	207.57	47	107.57
2583	J-769	100.00	0.00	207.57	47	107.57
2587	J-770	100.00	0.00	204.36	45	104.36
2590	J-771	100.00	0.00	207.08	46	107.08
2592	J-772	100.00	0.00	207.06	46	107.06
2594	J-773	100.00	0.00	207.08	46	107.08
2596	J-774	100.00	0.00	207.28	46	107.28
2598	J-775	100.00	0.00	207.10	46	107.10
2603	J-776	100.00	0.00	207.09	46	107.09
2606	J-777	100.00	0.00	207.09	46	107.09
2608	J-778	100.00	0.00	207.08	46	107.08
2612	J-779	100.00	0.00	207.08	46	107.08
2615	J-780	100.00	0.00	207.09	46	107.09
2619	J-781	100.00	0.00	207.09	46	107.09
2623	J-782	100.00	0.00	207.08	46	107.08
2625	J-783	100.00	77.30	207.04	46	107.04
2634	J-784	100.00	0.00	207.78	47	107.78
2637	J-785	100.00	0.00	208.85	47	108.85
2644	J-786	100.00	0.00	216.27	50	116.27
2646	J-787	100.00	0.00	216.28	50	116.28
2648	J-788	100.00	0.00	216.29	50	116.29
2652	J-789	100.00	0.00	216.64	50	116.64
2654	J-790	100.00	0.00	216.74	51	116.74
2671	J-791	100.00	0.00	215.32	50	115.32
2680	J-792	100.00	0.00	237.80	60	137.80
2685	J-793	100.00	0.00	235.97	59	135.97
2700	J-794	100.00	0.00	213.64	49	113.64

Junction Table - Time: 19.00 hours

ID	Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)	Pressure Head (ft)
2705	J-795	100.00	0.00	212.85	49	112.85
2720	J-797	100.00	0.00	240.92	61	140.92
2731	J-798	100.00	0.00	217.70	51	117.70
2776	J-799	100.00	159.80	203.49	45	103.49
2779	J-800	100.00	77.30	208.87	47	108.87
2782	J-801	100.00	71.30	216.96	51	116.96
2785	J-802	100.00	39.80	226.57	55	126.57
2787	J-803	100.00	207.05	231.35	57	131.35
2790	J-804	100.00	207.05	218.28	51	118.28
2796	J-805	100.00	36.80	208.48	47	108.48
2799	J-806	100.00	20.30	209.40	47	109.40
2805	J-807	100.00	21.80	203.27	45	103.27
2808	J-808	100.00	216.05	199.41	43	99.41
2811	J-809	100.00	159.80	210.48	48	110.48
2814	J-810	100.00	0.00	210.61	48	110.61
2818	J-811	100.00	132.80	210.79	48	110.79
2821	J-812	100.00	81.80	211.17	48	111.17
2824	J-813	100.00	174.80	212.02	48	112.02
2829	J-814	100.00	0.00	211.94	48	111.94
2831	J-815	100.00	56.30	212.10	49	112.10
2834	J-816	100.00	111.05	212.00	48	112.00
2837	J-817	100.00	90.80	215.34	50	115.34
2840	J-818	100.00	90.80	213.41	49	113.41
2843	J-819	100.00	155.30	215.69	50	115.69
2846	J-820	100.00	42.80	217.87	51	117.87
2850	J-821	100.00	117.80	227.17	55	127.17
2856	J-822	100.00	155.30	207.42	46	107.42
2860	J-823	100.00	0.00	226.75	55	126.75
2931	J-1045	100.00	0.00	207.80	47	107.80
2942	J-1048	100.00	0.00	207.32	46	107.32
2946	J-1049	100.00	0.00	201.61	44	101.61
2955	J-1050	100.00	0.00	224.24	54	124.24
2960	J-1052	100.00	0.00	215.82	50	115.82
2984	J-1053	100.00	0.00	203.49	45	103.49
3007	J-1058	100.00	0.00	203.14	45	103.14
3011	J-1059	100.00	0.00	211.96	48	111.96
3021	J-1060	100.00	0.00	228.10	55	128.10

Scenario: 2027
Low Pressure Analysis
Pipe Table
Current Time: 19.00 hours @Peak Flow

ID	Label	Length (Scaled) (ft)	Diameter (in)	Flow (gpm)	Material	Headloss (ft)	Pressure (Stop) (psi)	Pressure (Start) (psi)	Notes
2766	P-939	239	30.0	11,253.92	PVC	0.47	7	0	Raw Water Line
2724	P-928	342	20.0	7,614.33	PVC	2.37	60	61	
2681	P-910	165	20.0	6,069.21	PVC	0.75	60	60	
2682	P-911	232	20.0	5,728.11	PVC	0.95	59	60	
2688	P-915	388	20.0	4,161.82	PVC	0.88	59	59	
2697	P-916	476	20.0	3,199.43	PVC	0.66	59	59	
2698	P-917	186	20.0	3,199.43	PVC	0.26	58	59	
2726	P-929	118	14.0	2,538.28	PVC	0.61	3	7	Transfer Line
2727	P-930	66	14.0	2,538.28	PVC	0.34	61	60	
3254	P-308	116	14.0	2,538.05	PVC	0.60	3	7	Transfer Line
3255	P-309	74	14.0	2,538.05	PVC	0.38	61	60	
2717	P-926	118	14.0	2,538.00	PVC	0.61	3	7	Transfer Line
1391	P-216	814	12.0	1,689.64	PVC	4.18	57	58	
127	P-13	1,465	12.0	1,287.38	PVC	4.55	55	57	
975	P-159	119	8.0	862.31	PVC	1.27	50	51	
2963	P-229	2,633	10.0	809.87	PVC	8.42	50	54	
2791	P-948	1,985	8.0	803.91	PVC	18.57	51	59	
2159	P-665	182	6.0	796.51	PVC	6.79	55	58	
2670	P-905	107	8.0	772.27	PVC	0.93	2	3	Transfer Line
2732	P-932	62	16.0	772.27	PVC	0.02	51	51	
2733	P-933	88	8.0	772.27	PVC	0.76	51	55	
1380	P-210	201	10.0	713.28	PVC	0.51	58	58	
1698	P-382	498	8.0	646.11	PVC	3.11	53	55	
3384	P-646(1)	220	8.0	619.34	PVC	1.27	54	55	
3385	P-646(2)	624	8.0	619.34	PVC	3.60	53	54	
2792	P-949	647	8.0	596.86	PVC	3.49	50	51	
2488	P-818	1,258	8.0	574.86	PVC	6.32	52	55	
3461	P-363	64	8.0	574.37	PVC	0.32	52	52	
1864	P-484	47	6.0	570.76	PVC	0.94	53	53	
2489	P-819	48	8.0	567.19	PVC	0.23	52	52	
3148	P-214(1)	1,401	12.0	560.06	PVC	0.93	47	48	
3149	P-214(2)	844	12.0	560.06	PVC	0.56	47	47	
1386	P-212	881	12.0	560.06	PVC	0.59	47	47	
2409	P-775	653	10.0	523.47	PVC	0.93	54	54	
1640	P-353	161	6.0	523.35	PVC	2.76	47	48	
2817	P-960	81	8.0	523.35	PVC	0.34	47	47	
3533	P-398	117	8.0	516.80	PVC	0.48	45	45	
2484	P-816	424	8.0	509.84	PVC	1.70	55	56	
2161	P-667	368	6.0	497.26	PVC	5.75	47	50	
3233	P-234(1)	65	12.0	470.53	PVC	0.03	50	50	
3135	P-262(1)(1)	163	12.0	458.77	Ductile Iron	0.10	48	48	
749	P-111	45	8.0	434.75	PVC	0.13	49	49	
3236	P-306	569	8.0	430.37	PVC	1.67	50	50	
3238	P-191(2)	1,140	8.0	429.14	PVC	3.33	48	50	
2049	P-595	191	8.0	418.78	PVC	0.53	48	49	
1781	P-429	66	8.0	416.15	PVC	0.18	45	46	
2187	P-683	330	8.0	416.00	PVC	0.91	45	45	
1387	P-213	94	12.0	409.97	PVC	0.03	48	48	
1324	P-200	158	6.0	408.96	PVC	1.72	52	53	
2130	P-647	92	8.0	408.96	PVC	0.25	53	53	
1859	P-479	58	10.0	406.89	PVC	0.05	50	50	
2557	P-852	527	12.0	405.57	PVC	0.19	47	47	
2558	P-853	575	12.0	405.57	PVC	0.21	46	47	
1392	P-217	57	12.0	402.26	PVC	0.02	57	57	
2147	P-657	428	6.0	396.72	PVC	4.40	53	55	
2471	P-808	159	6.0	382.53	PVC	1.53	51	52	
1533	P-291	1,714	8.0	381.45	PVC	4.03	47	48	
1554	P-302	214	6.0	381.45	PVC	2.05	48	49	
1827	P-462	512	8.0	379.34	PVC	1.19	46	47	
1847	P-473	436	10.0	378.84	PVC	0.34	48	48	
1885	P-499	38	8.0	373.74	PVC	0.09	50	50	
1214	P-192	1,210	8.0	362.63	PVC	2.59	45	46	
2227	P-702	120	8.0	357.38	PVC	0.25	45	45	
1512	P-283	180	8.0	356.03	PVC	0.37	45	45	
755	P-112	46	8.0	353.51	PVC	0.09	47	47	
2149	P-659	64	6.0	351.97	PVC	0.52	58	58	
2687	P-914	2,049	6.0	347.51	PVC	16.46	52	59	
2058	P-601	587	6.0	347.51	PVC	4.72	50	52	
3230	P-238(2)	31	10.0	344.08	PVC	0.02	50	50	
1423	P-233	251	8.0	344.08	PVC	0.49	50	50	
1094	P-174	730	8.0	343.18	PVC	1.41	47	47	
1814	P-453	312	8.0	339.28	PVC	0.59	46	46	
798	P-121	90	8.0	335.65	PVC	0.17	51	52	
3136	P-262(1)(2)	1,006	12.0	329.10	Ductile Iron	0.33	48	48	
2168	P-673	1,407	10.0	326.87	PVC	0.84	48	49	
3102	P-262(2)	558	12.0	309.25	Ductile Iron	0.16	48	48	
1848	P-474	740	10.0	308.17	PVC	0.40	48	48	
3229	P-238(1)	56	10.0	303.92	PVC	0.03	50	50	
1823	P-460	188	8.0	298.19	PVC	0.28	46	46	
1582	P-319	91	12.0	287.69	PVC	0.02	49	49	
2324	P-729	139	8.0	287.49	PVC	0.19	46	46	
1463	P-253	37	10.0	284.07	PVC	0.02	48	48	
1821	P-458	201	8.0	283.39	PVC	0.27	46	46	
2947	P-956(1)	314	6.0	283.03	PVC	1.72	44	45	

FlexTable: Pipe Table
Current Time: 19.00 hours

ID	Label	Length (Scaled) (ft)	Diameter (in)	Flow (gpm)	Material	Headloss (ft)	Pressure (Stop) (psi)	Pressure (Start) (psi)	Notes
2640	P-893	38	6.0	274.76	PVC	0.20	47	47	
2986	P-100(2)	1,254	6.0	272.30	PVC	6.41	42	45	
2197	P-688	920	10.0	269.86	PVC	0.38	50	50	
2493	P-821	756	10.0	269.86	PVC	0.32	50	50	
1531	P-289	561	8.0	268.33	PVC	0.69	46	47	
1468	P-257	328	10.0	265.76	PVC	0.13	48	48	
2048	P-594	210	8.0	263.48	PVC	0.25	48	48	
1599	P-328	217	6.0	263.48	PVC	1.04	46	46	
2962	P-736(2)	170	6.0	263.47	PVC	0.82	50	50	
2337	P-737	257	6.0	263.47	PVC	1.24	49	50	
256	P-33	173	6.0	263.46	PVC	0.83	56	57	
1929	P-523	109	6.0	258.83	PVC	0.51	53	53	
1930	P-524	341	6.0	258.83	PVC	1.59	52	53	
2353	P-745	352	8.0	255.16	PVC	0.39	52	52	
1180	P-189	1,096	8.0	252.54	PVC	1.20	47	48	
1844	P-470	1,391	8.0	252.54	PVC	1.52	47	47	
2148	P-658	42	6.0	248.37	PVC	0.18	53	53	
374	P-66	328	6.0	245.61	PVC	1.38	50	51	
1405	P-223	1,788	10.0	245.20	PVC	0.63	50	50	
2051	P-596	304	8.0	244.25	PVC	0.31	48	48	
1469	P-258	30	8.0	243.85	PVC	0.03	49	49	
1699	P-383	364	8.0	232.48	PVC	0.34	53	53	
1456	P-250	294	8.0	226.62	PVC	0.26	48	49	
265	P-36	135	6.0	225.80	PVC	0.49	44	44	
1816	P-454	315	8.0	221.13	PVC	0.27	46	46	
3274	P-892(2)(1)	53	6.0	219.28	PVC	0.18	47	47	
1879	P-495	581	8.0	218.44	PVC	0.49	50	50	
1886	P-500	283	8.0	218.44	PVC	0.24	50	50	
2081	P-614	451	8.0	214.55	PVC	0.37	50	50	
2139	P-652	253	8.0	214.55	PVC	0.21	50	50	
1510	P-282	314	8.0	209.10	PVC	0.24	45	45	
389	P-69	534	6.0	203.30	PVC	1.59	44	45	
1547	P-299	1,460	6.0	202.82	PVC	4.33	47	49	
1557	P-304	502	6.0	202.79	PVC	1.49	50	50	
1830	P-464	73	8.0	202.24	PVC	0.05	46	46	
186	P-19	40	6.0	197.16	PVC	0.11	49	49	
725	P-108	34	6.0	197.16	PVC	0.10	49	49	
3570	P-418	51	6.0	193.26	PVC	0.14	50	50	
80	P-8	1,043	10.0	191.96	PVC	0.23	50	51	
1415	P-230	222	6.0	188.35	PVC	0.57	49	50	
1251	P-197	1,607	8.0	187.12	PVC	1.01	47	48	
2472	P-809	335	6.0	186.44	PVC	0.85	51	51	
2191	P-686	1,384	8.0	184.14	PVC	0.84	45	46	
422	P-76	410	6.0	181.06	PVC	0.99	51	52	
2162	P-668	492	6.0	179.70	PVC	1.17	47	47	
1805	P-445	764	8.0	177.52	PVC	0.44	46	46	
3207	P-340(2)	901	8.0	176.63	PVC	0.51	46	46	
2190	P-685	287	8.0	175.46	PVC	0.16	46	46	
1516	P-284	1,511	8.0	173.24	PVC	0.82	45	46	
2174	P-677	246	8.0	172.49	PVC	0.13	48	48	
1470	P-259	118	8.0	172.09	PVC	0.06	49	49	
3531	P-396	473	6.0	169.41	PVC	1.00	44	44	
786	P-119	102	8.0	169.35	PVC	0.05	50	50	
2641	P-894	247	6.0	168.06	PVC	0.52	47	47	
2034	P-587	207	6.0	168.06	PVC	0.43	47	47	
70	P-5	692	10.0	163.65	PVC	0.11	50	50	
78	P-7	1,210	10.0	163.65	PVC	0.20	50	50	
2494	P-822	110	10.0	163.65	PVC	0.02	50	50	
2633	P-889	146	6.0	161.97	PVC	0.29	47	47	
3015	P-632(2)	483	6.0	159.80	PVC	0.92	48	48	
3152	P-284	158	6.0	159.39	PVC	0.30	49	49	
3163	P-287(2)	525	6.0	159.39	PVC	1.00	48	49	
2228	P-703	127	8.0	158.63	PVC	0.06	45	45	
1598	P-327	465	6.0	158.43	PVC	0.87	45	46	
1600	P-329	432	6.0	158.43	PVC	0.81	46	46	
1532	P-290	875	8.0	156.36	PVC	0.39	46	46	
890	P-143	216	8.0	154.48	PVC	0.10	47	47	
3208	P-300	214	8.0	154.48	PVC	0.09	46	46	
3218	P-299(2)(2)	198	8.0	154.48	PVC	0.09	46	47	
1824	P-461	308	8.0	153.92	PVC	0.13	46	46	
2075	P-609	64	8.0	153.40	PVC	0.03	50	50	
1643	P-354	452	6.0	151.91	PVC	0.78	48	48	
1256	P-198	1,394	8.0	149.48	PVC	0.58	46	46	
2329	P-731	1,300	8.0	149.48	PVC	0.54	46	46	
2333	P-734	489	8.0	149.48	PVC	0.20	46	46	
3394	P-307(1)	1,090	8.0	148.46	PVC	0.45	49	50	
3574	P-307(2)(1)(1)	251	8.0	148.46	PVC	0.10	49	49	
3237	P-191(1)	99	8.0	147.22	PVC	0.04	50	50	
2530	P-839	140	8.0	146.56	PVC	0.06	49	49	
1454	P-249	634	8.0	146.56	PVC	0.25	49	49	
2360	P-748	121	8.0	146.36	PVC	0.05	51	52	
1398	P-220	1,004	10.0	146.04	PVC	0.13	50	50	
2391	P-763	297	6.0	145.94	PVC	0.48	53	53	

FlexTable: Pipe Table
Current Time: 19.00 hours

ID	Label	Length (Scaled) (ft)	Diameter (in)	Flow (gpm)	Material	Headloss (ft)	Pressure (Stop) (psi)	Pressure (Start) (psi)	Notes
1620	P-342	39	8.0	142.10	PVC	0.01	46	46	
3607	P-426	43	8.0	140.17	PVC	0.02	54	54	
2066	P-605	188	8.0	138.80	PVC	0.07	57	57	
3399	P-93(2)	407	6.0	138.80	PVC	0.60	48	48	
3555	P-412	33	8.0	136.31	PVC	0.01	46	46	
736	P-110	59	8.0	135.03	PVC	0.02	49	49	
1772	P-426	122	8.0	135.03	PVC	0.04	49	49	
2160	P-666	247	6.0	133.26	PVC	0.34	55	55	
2188	P-684	308	8.0	132.97	PVC	0.10	45	45	
822	P-128	110	8.0	130.08	PVC	0.04	47	47	
2172	P-676	577	8.0	129.72	PVC	0.18	48	48	
2083	P-615	63	8.0	129.53	PVC	0.02	50	50	
2089	P-620	389	8.0	129.53	PVC	0.12	50	50	
1928	P-522	1,335	6.0	129.05	PVC	1.71	51	52	
1880	P-496	292	8.0	128.46	PVC	0.09	50	50	
883	P-140	217	8.0	128.30	PVC	0.07	49	49	
1584	P-321	746	6.0	128.30	PVC	0.95	49	49	
2077	P-611	262	8.0	127.20	PVC	0.08	50	50	
2364	P-750	385	8.0	126.59	PVC	0.12	52	52	
1846	P-472	825	6.0	126.29	PVC	1.02	47	48	
437	P-80	594	6.0	125.60	PVC	0.73	46	46	
2841	P-975	832	6.0	123.39	PVC	0.98	49	49	
3196	P-289(1)(1)(1)	141	8.0	122.69	PVC	0.04	46	46	
1621	P-343	64	8.0	119.94	PVC	0.02	46	46	
2529	P-838	159	8.0	119.39	PVC	0.04	49	49	
1143	P-181	949	8.0	118.15	PVC	0.25	46	46	
2399	P-768	698	6.0	116.90	PVC	0.75	52	53	
2074	P-608	626	6.0	116.25	PVC	0.66	49	50	
3164	P-288	254	6.0	114.88	PVC	0.26	49	49	
1834	P-466	341	8.0	114.82	PVC	0.09	46	46	
2948	P-956(2)	2,172	6.0	113.62	PVC	2.20	43	44	
715	P-105	316	8.0	113.12	PVC	0.08	46	46	
1534	P-292	1,195	8.0	113.12	PVC	0.30	46	47	
2355	P-746	233	8.0	112.88	PVC	0.06	52	52	
2363	P-749	444	8.0	112.88	PVC	0.11	52	52	
1853	P-476	82	6.0	112.88	PVC	0.08	50	50	
3390	P-599(1)	750	6.0	112.88	PVC	0.75	49	50	
3391	P-599(2)	253	6.0	112.88	PVC	0.25	49	49	
852	P-130	97	8.0	112.87	PVC	0.02	52	52	
1678	P-375	161	8.0	112.64	PVC	0.04	49	49	
2323	P-728	232	8.0	112.03	PVC	0.06	46	46	
1114	P-176	1,206	8.0	111.97	PVC	0.29	46	46	
1644	P-355	774	6.0	111.05	PVC	0.75	48	48	
2466	P-805	646	6.0	109.11	PVC	0.61	51	51	
2387	P-761	119	6.0	107.19	PVC	0.11	53	53	
2406	P-773	404	6.0	107.19	PVC	0.37	53	53	
2777	P-940	1,221	8.0	106.70	PVC	0.27	45	45	
2135	P-650	561	8.0	105.60	PVC	0.12	46	47	
3566	P-417	53	6.0	105.44	PVC	0.05	50	50	
2032	P-586	195	6.0	104.81	PVC	0.17	47	47	
1722	P-400	34	6.0	104.72	PVC	0.03	49	49	
2701	P-918	206	6.0	104.72	PVC	0.18	49	49	
2704	P-921	100	6.0	104.72	PVC	0.09	49	49	
1508	P-281	817	8.0	102.40	PVC	0.17	45	45	
2985	P-100(1)	123	6.0	102.40	PVC	0.10	45	45	
2956	P-776(1)	634	10.0	102.20	PVC	0.04	54	54	
2800	P-952	348	6.0	100.18	PVC	0.28	47	47	
1903	P-510	57	8.0	99.49	PVC	0.01	51	51	
2460	P-802	114	6.0	99.49	PVC	0.09	51	51	
1822	P-459	711	8.0	98.03	PVC	0.13	46	46	
365	P-63	460	8.0	97.28	PVC	0.09	49	49	
2163	P-669	313	8.0	96.64	PVC	0.06	47	47	
2164	P-670	177	8.0	96.64	PVC	0.03	47	47	
1838	P-467	985	8.0	96.64	PVC	0.18	46	47	
1741	P-411	345	6.0	96.64	PVC	0.26	48	48	
3087	P-86(1)	611	6.0	96.64	PVC	0.46	48	48	
316	P-53	310	6.0	96.05	PVC	0.23	49	49	
362	P-62	281	6.0	96.05	PVC	0.21	49	49	
1664	P-367	89	6.0	96.05	PVC	0.07	49	49	
3467	P-906(1)	1,373	6.0	95.97	PVC	1.02	50	50	
1828	P-463	701	8.0	95.95	PVC	0.13	46	46	
3086	P-261	179	8.0	93.83	PVC	0.03	45	45	
2087	P-618	143	6.0	90.05	PVC	0.09	50	50	
2088	P-619	557	6.0	90.05	PVC	0.37	50	50	
2052	P-597	1,224	8.0	88.95	PVC	0.19	48	48	
60	P-4	306	10.0	87.80	PVC	0.02	50	50	
2094	P-625	332	8.0	87.80	PVC	0.05	49	49	
3593	P-623(1)	1,578	8.0	87.80	PVC	0.24	49	49	
3594	P-623(2)	713	8.0	87.80	PVC	0.11	49	49	
1073	P-170	610	8.0	87.42	PVC	0.09	46	46	
3159	P-961(2)	1,385	6.0	85.57	Asbestos Cement	0.94	48	48	
1558	P-305	738	6.0	84.80	PVC	0.43	49	50	
922	P-151	225	8.0	84.47	PVC	0.03	47	47	

FlexTable: Pipe Table
Current Time: 19.00 hours

ID	Label	Length (Scaled) (ft)	Diameter (in)	Flow (gpm)	Material	Headloss (ft)	Pressure (Stop) (psi)	Pressure (Start) (psi)	Notes
1234	P-195	1,279	6.0	81.80	PVC	0.71	45	46	
2969	P-271(1)	372	10.0	81.55	PVC	0.02	50	50	
1489	P-270	320	10.0	81.55	PVC	0.01	50	50	
1492	P-273	147	10.0	81.55	PVC	0.01	50	50	
1904	P-511	270	8.0	80.51	PVC	0.04	51	51	
2822	P-963	1,206	6.0	80.47	PVC	0.65	48	48	
1083	P-172	630	8.0	80.35	PVC	0.08	47	47	
3166	P-338(1)	826	6.0	80.04	PVC	0.44	46	47	
2801	P-953	1,015	6.0	79.88	PVC	0.54	47	47	
2438	P-791	1,028	8.0	77.90	PVC	0.13	51	51	
2490	P-820	1,804	8.0	77.90	PVC	0.22	50	51	
2626	P-886	169	8.0	77.30	PVC	0.02	46	46	
1374	P-207	751	8.0	77.13	PVC	0.09	47	47	
1779	P-428	211	8.0	76.87	PVC	0.03	46	46	
2072	P-607	783	6.0	75.01	PVC	0.37	49	49	
1731	P-403	61	8.0	75.01	PVC	0.01	49	49	
3014	P-632(1)	533	6.0	74.12	PVC	0.24	48	49	
2864	P-990	179	8.0	73.89	PVC	0.02	55	55	
2099	P-629	18	6.0	71.86	PVC	0.01	49	49	
425	P-77	419	6.0	71.76	PVC	0.18	49	49	
1414	P-229	616	6.0	71.34	PVC	0.26	52	52	
530	P-91	1,149	6.0	70.67	PVC	0.48	48	48	
795	P-120	65	8.0	70.40	PVC	0.01	48	48	
805	P-124	72	8.0	70.40	PVC	0.01	48	48	
727	P-109	146	8.0	69.47	PVC	0.01	47	47	
177	P-16	33	6.0	69.05	PVC	0.01	52	52	
1804	P-444	268	8.0	68.44	PVC	0.03	46	46	
3108	P-267	228	8.0	68.14	PVC	0.02	48	48	
3110	P-268	226	8.0	68.14	PVC	0.02	48	48	
3114	P-269	490	8.0	68.14	PVC	0.05	48	48	
2844	P-977	1,090	8.0	67.63	PVC	0.10	50	50	
2105	P-633	323	6.0	67.25	PVC	0.12	48	48	
2815	P-959	811	6.0	67.25	PVC	0.31	48	48	
1115	P-177	882	8.0	67.21	PVC	0.08	46	46	
1795	P-439	281	8.0	66.08	PVC	0.03	46	46	
1806	P-446	563	8.0	66.08	PVC	0.05	46	46	
2321	P-726	1,164	8.0	64.73	PVC	0.10	46	46	
2107	P-635	888	8.0	64.29	PVC	0.08	49	49	
1574	P-314	1,020	6.0	63.75	PVC	0.35	51	52	
2650	P-898	723	8.0	63.64	PVC	0.06	50	50	
3128	P-275	202	8.0	63.51	PVC	0.02	48	48	
1416	P-231	191	6.0	63.48	PVC	0.07	49	49	
210	P-22	79	6.0	63.30	PVC	0.03	52	52	
1496	P-275	524	8.0	63.14	PVC	0.04	50	50	
2315	P-722	191	8.0	61.47	PVC	0.02	45	45	
2079	P-613	549	8.0	61.15	PVC	0.04	50	50	
2113	P-640	273	8.0	61.15	PVC	0.02	50	50	
2140	P-653	24	8.0	61.15	PVC	0.00	50	50	
2857	P-985	1,020	6.0	59.34	PVC	0.31	46	47	
1810	P-450	256	8.0	58.78	PVC	0.02	46	46	
1726	P-401	690	8.0	58.01	PVC	0.05	49	49	
1471	P-260	48	6.0	57.83	PVC	0.01	49	49	
2109	P-656	357	6.0	57.43	PVC	0.10	49	49	
2783	P-943	838	8.0	57.42	PVC	0.06	51	51	
2838	P-973	613	6.0	57.21	PVC	0.17	50	50	
1518	P-285	209	8.0	56.06	PVC	0.01	46	46	
2322	P-727	128	8.0	56.06	PVC	0.01	46	46	
1845	P-471	326	6.0	55.63	PVC	0.09	48	48	
1663	P-366	236	6.0	55.31	PVC	0.06	49	49	
2825	P-965	691	8.0	54.13	PVC	0.04	48	48	
1464	P-254	127	10.0	53.51	PVC	0.00	48	48	
1596	P-326	202	6.0	53.38	PVC	0.05	45	45	
3211	P-297(1)	220	8.0	53.06	PVC	0.01	47	47	
3217	P-299(2)(1)	318	8.0	53.06	PVC	0.02	47	47	
1802	P-443	280	8.0	52.66	PVC	0.02	46	46	
2610	P-875	294	8.0	49.78	PVC	0.02	46	46	
2018	P-575	405	6.0	49.63	PVC	0.09	47	47	
3197	P-289(1)(1)(1)	244	8.0	49.50	PVC	0.01	46	46	
3189	P-291(2)(2)(2)	240	8.0	49.50	PVC	0.01	46	46	
3226	P-304	346	6.0	48.27	PVC	0.07	46	46	
353	P-61	278	6.0	47.29	PVC	0.06	49	49	
313	P-52	221	6.0	46.64	PVC	0.04	44	44	
1448	P-246	2,603	6.0	46.64	PVC	0.51	44	44	
2835	P-971	496	6.0	46.62	PVC	0.10	48	48	
2419	P-782	60	8.0	45.91	PVC	0.00	51	51	
2426	P-784	138	8.0	45.91	PVC	0.01	51	51	
2437	P-790	748	8.0	45.91	PVC	0.03	51	51	
2029	P-584	790	6.0	45.47	PVC	0.15	47	47	
955	P-156	284	8.0	44.78	PVC	0.01	50	50	
3154	P-285	608	6.0	44.51	PVC	0.11	49	49	
3156	P-286	253	6.0	44.51	PVC	0.05	49	49	
3162	P-287(1)	608	6.0	44.51	PVC	0.11	49	49	

FlexTable: Pipe Table
Current Time: 19.00 hours

ID	Label	Length (Scaled) (ft)	Diameter (In)	Flow (gpm)	Material	Headloss (ft)	Pressure (Stop) (psi)	Pressure (Start) (psi)	Notes
1809	P-449	268	8.0	43.00	PVC	0.01	46	46	
3194	P-295	178	8.0	42.39	PVC	0.01	46	46	
1721	P-399	343	6.0	41.24	PVC	0.05	49	49	
1639	P-352	359	6.0	40.86	PVC	0.05	48	48	
2128	P-645	179	6.0	40.79	PVC	0.03	52	52	
2709	P-925	369	6.0	40.74	PVC	0.06	49	49	
2706	P-922	187	6.0	40.44	PVC	0.03	49	49	
2786	P-945	615	6.0	39.80	PVC	0.09	55	55	
1655	P-361	278	6.0	39.61	PVC	0.04	48	49	
2090	P-621	64	8.0	39.48	PVC	0.00	50	50	
1652	P-359	88	6.0	38.86	PVC	0.01	49	49	
1124	P-179	891	8.0	34.85	PVC	0.02	49	49	
1800	P-442	291	8.0	34.57	PVC	0.01	46	46	
2708	P-924	653	6.0	34.23	PVC	0.07	49	49	
2707	P-923	223	6.0	33.92	PVC	0.02	49	49	
896	P-145	309	8.0	33.74	PVC	0.01	54	54	
2842	P-976	572	6.0	32.59	PVC	0.06	49	49	
2439	P-792	255	8.0	31.99	PVC	0.01	51	51	
1480	P-265	575	6.0	31.43	PVC	0.05	49	49	
3070	P-253	245	8.0	31.39	PVC	0.01	45	45	
2218	P-700	647	6.0	31.06	PVC	0.06	45	45	
2219	P-701	553	6.0	31.05	PVC	0.05	45	45	
2614	P-878	211	8.0	30.49	PVC	0.00	46	46	
3216	P-301	1,013	8.0	29.89	PVC	0.02	47	47	
3188	P-291(2)(2)(1)	252	8.0	29.20	PVC	0.01	46	46	
3192	P-289(1)(1)(2)	252	8.0	29.20	PVC	0.01	46	46	
1647	P-357	311	6.0	28.65	PVC	0.02	49	49	
2427	P-785	517	8.0	27.61	PVC	0.01	51	51	
2076	P-610	390	8.0	26.20	PVC	0.01	50	50	
2616	P-879	175	8.0	25.88	PVC	0.00	46	46	
1032	P-166	2,706	8.0	25.82	PVC	0.04	47	47	
2041	P-591	1,307	8.0	25.82	PVC	0.02	47	47	
1735	P-407	577	8.0	25.50	PVC	0.01	48	48	
401	P-71	382	6.0	24.42	PVC	0.02	48	49	
1472	P-261	295	6.0	23.34	PVC	0.02	49	49	
800	P-122	132	8.0	23.30	PVC	0.00	53	53	
3202	P-298	1,002	8.0	23.17	PVC	0.01	47	47	
3212	P-297(2)	310	8.0	23.17	PVC	0.00	47	47	
3214	P-299(1)	312	8.0	23.17	PVC	0.00	47	47	
1753	P-418	287	8.0	23.17	PVC	0.00	48	48	
3133	P-277	210	8.0	22.48	PVC	0.00	48	48	
2588	P-869	265	6.0	22.32	PVC	0.01	45	45	
2589	P-870	902	6.0	22.32	PVC	0.04	45	45	
3206	P-340(1)	71	8.0	22.15	PVC	0.00	46	46	
2832	P-969	802	6.0	21.81	PVC	0.04	49	49	
2611	P-876	906	8.0	19.30	PVC	0.01	46	46	
371	P-65	336	6.0	18.31	PVC	0.01	48	48	
2433	P-789	289	8.0	18.30	PVC	0.00	51	51	
2136	P-651	332	8.0	18.18	PVC	0.00	46	46	
1775	P-427	316	8.0	18.12	PVC	0.00	46	46	
2359	P-747	218	8.0	17.79	PVC	0.00	52	52	
3181	P-291(2)(1)	269	8.0	17.05	PVC	0.00	46	46	
3185	P-289(1)(2)	267	8.0	17.05	PVC	0.00	46	46	
2613	P-877	165	8.0	16.52	PVC	0.00	46	46	
1958	P-537	185	8.0	15.06	PVC	0.00	54	54	
3069	P-707(2)	1,134	8.0	14.21	PVC	0.01	45	45	
224	P-26	61	8.0	13.22	PVC	0.00	45	45	
3080	P-258	1,136	8.0	13.22	PVC	0.01	45	45	
247	P-31	162	6.0	12.76	PVC	0.00	47	47	
881	P-139	158	6.0	12.76	PVC	0.00	47	47	
2028	P-583	212	6.0	12.76	PVC	0.00	47	47	
3556	P-413	35	8.0	12.16	PVC	0.00	46	46	
2617	P-880	207	8.0	11.92	PVC	0.00	46	46	
564	P-97	1,394	6.0	11.39	PVC	0.02	45	45	
1587	P-322	943	6.0	10.93	PVC	0.01	45	45	
285	P-43	141	6.0	10.93	PVC	0.00	45	45	
1728	P-402	189	8.0	10.72	PVC	0.00	49	49	
1732	P-404	375	8.0	10.72	PVC	0.00	49	49	
2095	P-626	910	6.0	10.21	PVC	0.01	49	49	
3171	P-290	393	8.0	9.79	PVC	0.00	46	46	
3174	P-291(1)	275	8.0	9.79	PVC	0.00	46	46	
3178	P-289(2)	269	8.0	9.79	PVC	0.00	46	46	
1013	P-165	419	8.0	9.64	PVC	0.00	51	51	
2402	P-770	532	6.0	8.70	PVC	0.00	53	53	
2286	P-710	1,168	8.0	7.39	PVC	0.00	45	45	
1476	P-262	172	6.0	7.01	PVC	0.00	48	49	
763	P-115	311	8.0	6.33	PVC	0.00	54	54	
2054	P-598	420	6.0	5.84	PVC	0.00	50	50	
2781	P-942	382	6.0	2.58	PVC	0.00	47	47	
2096	P-627	123	6.0	2.26	PVC	0.00	49	49	
1657	P-362	358	6.0	1.53	PVC	0.00	49	49	
1659	P-364	670	6.0	1.53	PVC	0.00	49	49	

FlexTable: Pipe Table
Current Time: 19.00 hours

ID	Label	Length (Scaled) (ft)	Diameter (in)	Flow (gpm)	Material	Headloss (ft)	Pressure (Stop) (psi)	Pressure (Start) (psi)	Notes
2001	P-564	332	6.0	0.00	PVC	0.00	46	46	
2003	P-566	327	6.0	0.00	PVC	0.00	46	46	
2344	P-741	1,200	8.0	0.00	PVC	0.00	51	51	
2561	P-855	248	8.0	0.00	PVC	0.00	47	47	
2004	P-567	165	6.0	0.00	PVC	0.00	46	46	
213	P-23	95	6.0	0.00	PVC	0.00	49	49	
216	P-24	133	6.0	0.00	PVC	0.00	49	49	
2450	P-797	158	8.0	0.00	PVC	0.00	51	51	
1992	P-557	243	6.0	0.00	PVC	0.00	46	46	
296	P-47	159	6.0	0.00	PVC	0.00	46	46	
318	P-54	216	6.0	0.00	PVC	0.00	47	47	
2217	P-699	141	6.0	0.00	PVC	0.00	45	45	
1796	P-440	1,567	8.0	0.00	PVC	0.00	46	46	
395	P-70	495	6.0	0.00	PVC	0.00	56	56	
288	P-44	171	6.0	0.00	PVC	0.00	46	46	
803	P-123	69	6.0	0.00	PVC	0.00	52	52	
758	P-113	171	8.0	0.00	PVC	0.00	47	47	
840	P-129	122	8.0	0.00	PVC	0.00	49	49	
706	P-103	31	8.0	0.00	PVC	0.00	50	50	
2563	P-856	177	8.0	0.00	PVC	0.00	47	47	
777	P-117	68	8.0	0.00	PVC	0.00	59	59	
1426	P-235	31	12.0	0.00	PVC	0.00	50	50	
1172	P-188	1,074	6.0	0.00	PVC	0.00	59	59	
2290	P-713	149	10.0	0.00	PVC	0.00	45	45	
3489	P-371	56	8.0	0.00	PVC	0.00	48	48	
2508	P-828	509	8.0	0.00	PVC	0.00	50	50	
2506	P-827	477	8.0	0.00	PVC	0.00	50	50	
2510	P-829	193	8.0	0.00	PVC	0.00	50	50	
1221	P-193	1,271	8.0	0.00	PVC	0.00	47	47	
3534	P-399	70	8.0	0.00	PVC	0.00	46	46	
3095	P-263(2)	122	12.0	0.00	Ductile Iron	0.00	48	48	
2573	P-860	267	8.0	0.00	PVC	0.00	47	47	
1406	P-224	660	10.0	0.00	PVC	0.00	50	50	
321	P-55	223	6.0	0.00	PVC	0.00	51	51	
180	P-17	33	6.0	0.00	PVC	0.00	51	51	
2446	P-795	449	8.0	0.00	PVC	0.00	51	51	
2448	P-796	72	8.0	0.00	PVC	0.00	51	51	
854	P-131	107	8.0	0.00	PVC	0.00	47	47	
253	P-32	131	6.0	0.00	PVC	0.00	45	45	
1720	P-398	120	6.0	0.00	PVC	0.00	49	49	
238	P-29	391	6.0	0.00	PVC	0.00	53	53	
3406	P-89(1)	216	6.0	0.00	PVC	0.00	52	52	
2106	P-634	329	6.0	0.00	PVC	0.00	48	48	
410	P-73	400	6.0	0.00	PVC	0.00	53	53	
291	P-45	169	6.0	0.00	PVC	0.00	45	45	
481	P-83	648	6.0	0.00	PVC	0.00	47	47	
872	P-135	128	8.0	0.00	PVC	0.00	49	49	
1436	P-240	354	6.0	0.00	PVC	0.00	50	50	
2070	P-606	595	6.0	0.00	PVC	0.00	49	49	
547	P-95	1,022	6.0	0.00	PVC	0.00	49	49	
280	P-41	111	6.0	0.00	PVC	0.00	44	44	
2702	P-919	109	6.0	0.00	PVC	0.00	49	49	
3468	P-906(2)	620	6.0	0.00	PVC	0.00	50	50	
3601	P-348(2)(1)	1,711	6.0	0.00	PVC	0.00	48	48	
3596	P-348(1)	1,175	6.0	0.00	PVC	0.00	48	48	
2830	P-968	597	8.0	0.00	PVC	0.00	48	48	
1394	P-219	464	6.0	0.00	PVC	0.00	56	56	
2370	P-754	284	6.0	0.00	PVC	0.00	51	51	
2359	P-738	534	6.0	0.00	PVC	0.00	50	50	
310	P-51	337	8.0	0.00	PVC	0.00	49	49	
344	P-59	263	6.0	0.00	PVC	0.00	48	48	
431	P-78	420	6.0	0.00	PVC	0.00	52	52	
3602	P-348(2)(2)	260	6.0	0.00	PVC	0.00	48	48	
407	P-72	396	6.0	0.00	PVC	0.00	53	53	
2110	P-637	449	6.0	0.00	PVC	0.00	49	49	
3407	P-89(2)	497	6.0	0.00	PVC	0.00	52	52	
1434	P-239	206	6.0	0.00	PVC	0.00	50	50	
2444	P-794	181	8.0	0.00	PVC	0.00	51	51	
262	P-35	135	6.0	0.00	PVC	0.00	45	45	
2624	P-885	167	8.0	0.00	PVC	0.00	46	46	
2348	P-743	145	8.0	0.00	PVC	0.00	51	51	
39	P-1	71	8.0	0.00	PVC	0.00	50	50	
2569	P-858	323	8.0	0.00	PVC	0.00	47	47	
2430	P-787	116	8.0	0.00	PVC	0.00	51	51	
183	P-18	36	6.0	0.00	PVC	0.00	52	52	
2346	P-742	145	8.0	0.00	PVC	0.00	51	51	
3565	P-307(2)(2)	92	8.0	0.00	PVC	0.00	50	50	
1588	P-323	34	6.0	0.00	PVC	0.00	45	45	
709	P-104	140	8.0	0.00	PVC	0.00	47	47	
2546	P-847	998	8.0	0.00	PVC	0.00	47	47	
2541	P-844	293	8.0	0.00	PVC	0.00	47	47	
2547	P-848	293	8.0	0.00	PVC	0.00	47	47	
2740	P-936	177	10.0	0.00	PVC	0.00	3	7	Transfer Line
3234	P-234(2)	46	12.0	0.00	PVC	0.00	50	50	

FlexTable: Pipe Table
Current Time: 19.00 hours

ID	Label	Length (Scaled) (ft)	Diameter (in)	Flow (gpm)	Material	Headloss (ft)	Pressure (Stop) (psi)	Pressure (Start) (psi)	Notes
195	P-21	56	8.0	0.00	PVC	0.00	50	50	
2512	P-830	53	8.0	0.00	PVC	0.00	50	50	
3449	P-351(2)	1,097	8.0	0.00	PVC	0.00	48	48	
2007	P-569	845	6.0	0.00	PVC	0.00	44	44	
2580	P-864	154	8.0	0.00	PVC	0.00	47	47	
2581	P-865	1,098	8.0	0.00	PVC	0.00	47	47	
2571	P-859	683	8.0	0.00	PVC	0.00	47	47	
875	P-136	226	8.0	0.00	PVC	0.00	-1	-1	Transfer Line
780	P-118	199	8.0	0.00	PVC	0.00	-1	-1	Transfer Line
2152	P-661	80	8.0	0.00	PVC	0.00	-1	-1	Transfer Line
2132	P-649	217	8.0	0.00	PVC	0.00	-1	-1	Transfer Line
1389	P-215	2,392	8.0	0.00	PVC	0.00	-1	-1	Transfer Line
2151	P-660	648	8.0	0.00	PVC	0.00	-1	-1	Transfer Line
2131	P-648	110	8.0	0.00	PVC	0.00	-1	-1	Transfer Line
2661	P-903	336	8.0	0.00	PVC	0.00	-1	-1	Transfer Line
2660	P-902	248	8.0	0.00	PVC	0.00	-1	-1	Transfer Line
3444	P-352	256	8.0	0.00	PVC	0.00	48	48	
2579	P-863	295	8.0	0.00	PVC	0.00	47	47	
2565	P-857	1,248	8.0	0.00	PVC	0.00	47	47	
2517	P-832	116	8.0	0.00	PVC	0.00	50	50	
3480	P-368(1)	164	8.0	0.00	PVC	0.00	50	50	
2307	P-718	154	8.0	0.00	PVC	0.00	45	45	
2575	P-861	412	8.0	0.00	PVC	0.00	47	47	
3450	P-354	253	8.0	0.00	PVC	0.00	48	48	
57	P-3	102	8.0	0.00	PVC	0.00	50	50	
1441	P-242	56	6.0	0.00	PVC	0.00	50	50	
2303	P-717	172	8.0	0.00	PVC	0.00	45	45	
3481	P-368(2)	136	8.0	0.00	PVC	0.00	50	50	
2527	P-837	146	8.0	0.00	PVC	0.00	50	50	
2061	P-604	571	8.0	0.00	PVC	0.00	57	57	
1876	P-494	128	8.0	0.00	PVC	0.00	50	50	
943	P-154	251	8.0	0.00	PVC	0.00	48	48	
160	P-14	51	6.0	0.00	PVC	0.00	50	50	
1482	P-267	111	6.0	0.00	PVC	0.00	49	49	
1841	P-468	480	8.0	0.00	PVC	0.00	47	47	
3448	P-351(1)	123	8.0	0.00	PVC	0.00	48	48	
1874	P-492	234	8.0	0.00	PVC	0.00	50	50	
1861	P-481	67	6.0	0.00	PVC	0.00	50	50	
910	P-148	188	8.0	0.00	PVC	0.00	50	50	
2545	P-846	186	8.0	0.00	PVC	0.00	47	47	
2742	P-938	39	8.0	0.00	PVC	0.00	-1	-2	Transfer Line
268	P-37	117	6.0	0.00	PVC	0.00	45	45	
304	P-50	195	6.0	0.00	PVC	0.00	50	50	
1817	P-455	312	8.0	0.00	PVC	0.00	46	46	
1571	P-312	28	6.0	0.00	PVC	0.00	52	52	
2060	P-603	661	6.0	0.00	PVC	0.00	57	57	
2002	P-565	367	6.0	0.00	PVC	0.00	46	46	
277	P-40	120	6.0	0.00	PVC	0.00	46	46	
1590	P-324	307	6.0	0.00	PVC	0.00	45	45	
271	P-38	136	6.0	0.00	PVC	0.00	44	44	
1501	P-278	301	6.0	0.00	PVC	0.00	50	50	
3140	P-279	254	8.0	0.00	PVC	0.00	47	47	
259	P-34	182	6.0	0.00	PVC	0.00	50	50	
500	P-87	691	6.0	0.00	PVC	0.00	52	52	
1502	P-279	334	6.0	0.00	PVC	0.00	50	50	
1185	P-190	1,097	8.0	0.00	PVC	0.00	46	46	
1993	P-558	412	6.0	0.00	PVC	0.00	46	46	
302	P-49	151	8.0	0.00	PVC	0.00	50	50	
503	P-88	657	6.0	0.00	PVC	0.00	46	46	
675	P-102	2,030	6.0	0.00	PVC	0.00	51	51	
487	P-85	754	6.0	0.00	PVC	0.00	50	50	
1748	P-415	286	6.0	0.00	Asbestos Cement	0.00	48	48	
2009	P-570	542	6.0	0.00	PVC	0.00	44	44	
222	P-25	97	6.0	0.00	PVC	0.00	50	50	
1378	P-208	172	10.0	0.00	PVC	0.00	51	58	
1438	P-241	97	6.0	0.00	PVC	0.00	50	50	
1010	P-164	710	8.0	0.00	PVC	0.00	50	50	
1875	P-493	387	8.0	0.00	PVC	0.00	50	50	
3482	P-370	740	8.0	0.00	PVC	0.00	50	50	
2211	P-695	205	6.0	0.00	PVC	0.00	52	52	
2372	P-755	280	6.0	0.00	PVC	0.00	51	51	
2005	P-568	227	6.0	0.00	PVC	0.00	44	44	
1662	P-365	132	6.0	0.00	PVC	0.00	49	49	
1862	P-482	538	6.0	0.00	PVC	0.00	50	50	
341	P-58	266	6.0	0.00	PVC	0.00	50	50	
282	P-42	90	6.0	0.00	PVC	0.00	50	50	
274	P-39	120	6.0	0.00	PVC	0.00	46	46	
1668	P-369	321	6.0	0.00	PVC	0.00	49	49	
3475	P-369	742	8.0	0.00	PVC	0.00	50	50	
2091	P-622	92	8.0	0.00	PVC	0.00	49	49	
1407	P-225	48	6.0	0.00	PVC	0.00	48	48	
3146	P-282	401	8.0	0.00	PVC	0.00	47	47	
163	P-15	49	6.0	0.00	PVC	0.00	51	51	
3436	P-350	1,304	8.0	0.00	PVC	0.00	46	46	

FlexTable: Pipe Table
Current Time: 19.00 hours

ID	Label	Length (Scaled) (ft)	Diameter (in)	Flow (gpm)	Material	Headloss (ft)	Pressure (Stop) (psi)	Pressure (Start) (psi)	Notes
235	P-28	111	6.0	0.00	PVC	0.00	46	46	
1673	P-373	224	8.0	0.00	PVC	0.00	49	49	
244	P-30	121	6.0	0.00	PVC	0.00	49	49	
869	P-134	128	8.0	0.00	PVC	0.00	49	49	
3142	P-280	287	8.0	0.00	PVC	0.00	47	47	
3150	P-283	747	8.0	0.00	PVC	0.00	47	47	
1967	P-542	151	8.0	0.00	PVC	0.00	54	54	
3144	P-281	258	8.0	0.00	PVC	0.00	47	47	
1495	P-274	321	8.0	0.00	PVC	0.00	50	50	
1755	P-419	394	8.0	0.00	PVC	0.00	49	49	
2059	P-602	77	6.0	0.00	PVC	0.00	57	57	
2308	P-719	146	8.0	0.00	PVC	0.00	45	45	
887	P-142	171	8.0	0.00	PVC	0.00	57	57	
2522	P-834	118	8.0	0.00	PVC	0.00	50	50	
3493	P-372	314	8.0	0.00	PVC	0.00	48	48	
808	P-125	74	8.0	0.00	PVC	0.00	50	50	
811	P-126	76	8.0	0.00	PVC	0.00	57	57	
1868	P-488	56	8.0	0.00	PVC	0.00	49	49	
2669	P-904	351	8.0	0.00	PVC	0.00	3	-1	Trasfer Line
2674	P-907	1,398	8.0	0.00	PVC	0.00	-1	-1	Trasfer Line
1085	P-173	589	8.0	0.00	PVC	0.00	-1	-1	Trasfer Line
2543	P-845	995	8.0	0.00	PVC	0.00	47	47	
722	P-107	36	8.0	0.00	PVC	0.00	53	53	
3422	P-11(2)(2)	49	12.0	0.00	PVC	0.00	49	49	
2584	P-866	117	8.0	0.00	PVC	0.00	47	47	
1432	P-237	82	10.0	0.00	PVC	0.00	48	48	
2577	P-862	196	8.0	0.00	PVC	0.00	47	47	
3446	P-353	1,097	8.0	0.00	PVC	0.00	48	48	
326	P-56	245	6.0	0.00	PVC	0.00	44	44	
2586	P-868	156	8.0	0.00	PVC	0.00	47	47	
3371	P-374(2)	461	8.0	0.00	PVC	0.00	49	49	
2497	P-823	182	8.0	0.00	PVC	0.00	50	50	
860	P-132	123	6.0	0.00	PVC	0.00	46	46	
2501	P-825	474	8.0	0.00	PVC	0.00	50	50	
863	P-133	123	6.0	0.00	PVC	0.00	47	47	
232	P-27	111	6.0	0.00	PVC	0.00	49	49	
2301	P-716	497	8.0	0.00	PVC	0.00	45	45	
294	P-46	144	6.0	0.00	PVC	0.00	52	52	
1447	P-245	1,579	6.0	0.00	PVC	0.00	44	44	
1949	P-534	701	6.0	0.00	PVC	0.00	55	55	
2703	P-920	501	6.0	0.00	PVC	0.00	49	49	
463	P-81	599	6.0	0.00	PVC	0.00	54	54	
189	P-20	51	6.0	0.00	PVC	0.00	52	52	
2202	P-691	156	6.0	0.00	PVC	0.00	45	45	
1331	P-201	55	6.0	0.00	PVC	0.00	55	55	
917	P-149	201	8.0	0.00	PVC	0.00	49	49	
2585	P-867	217	8.0	0.00	PVC	0.00	47	47	
2555	P-851	936	8.0	0.00	PVC	0.00	47	47	
2549	P-849	141	8.0	0.00	PVC	0.00	47	47	
2551	P-850	245	8.0	0.00	PVC	0.00	47	47	
1867	P-487	41	8.0	0.00	PVC	0.00	49	49	
1760	P-421	291	8.0	0.00	PVC	0.00	49	49	
1757	P-420	300	8.0	0.00	PVC	0.00	49	49	
3417	P-11(1)	89	12.0	0.00	PVC	0.00	49	49	
1872	P-491	328	8.0	0.00	PVC	0.00	50	50	
3421	P-11(2)(1)	262	12.0	0.00	PVC	0.00	49	49	
819	P-127	79	8.0	0.00	PVC	0.00	49	49	
1583	P-320	66	6.0	0.00	PVC	0.00	49	49	
2432	P-788	537	8.0	0.00	PVC	0.00	51	51	
1411	P-227	362	6.0	0.00	PVC	0.00	56	56	
3370	P-374(1)	440	8.0	0.00	PVC	0.00	49	49	
2216	P-698	139	6.0	0.00	PVC	0.00	45	45	
299	P-48	156	6.0	0.00	PVC	0.00	52	52	
1994	P-559	388	6.0	0.00	PVC	0.00	46	46	
1412	P-228	255	6.0	0.00	PVC	0.00	56	56	
2559	P-854	632	8.0	0.00	PVC	0.00	47	47	
2000	P-563	125	6.0	0.00	PVC	0.00	46	46	
2823	P-964	463	6.0	-1.33	PVC	0.00	48	48	
2797	P-950	185	6.0	-2.07	PVC	0.00	47	47	
1479	P-264	175	6.0	-5.16	PVC	0.00	49	49	
2534	P-841	491	6.0	-6.75	PVC	0.00	49	49	
3179	P-292	401	6.0	-7.26	PVC	0.00	46	46	
2622	P-894	177	8.0	-7.38	PVC	0.00	46	46	
2287	P-711	35	8.0	-7.46	PVC	0.00	45	45	
1902	P-509	297	10.0	-7.66	PVC	0.00	52	52	
2282	P-708	1,160	8.0	-7.71	PVC	0.00	45	45	
1646	P-356	1,849	6.0	-7.95	PVC	0.01	49	49	
1648	P-358	52	6.0	-7.95	PVC	0.00	49	49	
2195	P-687	671	8.0	-8.68	PVC	0.00	46	46	
2461	P-803	1,355	8.0	-9.62	PVC	0.00	51	51	
2158	P-664	127	8.0	-9.64	PVC	0.00	51	51	
766	P-116	308	8.0	-10.80	PVC	0.00	54	54	
1592	P-325	376	6.0	-10.93	PVC	0.00	45	45	
3129	P-276	212	8.0	-11.81	PVC	0.00	48	48	

FlexTable: Pipe Table
Current Time: 19.00 hours

ID	Label	Length (Scaled) (ft)	Diameter (in)	Flow (gpm)	Material	Headloss (ft)	Pressure (Stop) (psi)	Pressure (Start) (psi)	Notes
3186	P-293	401	6.0	-12.16	PVC	0.01	46	46	
2368	P-753	222	8.0	-13.70	PVC	0.00	52	52	
2784	P-944	264	8.0	-13.88	PVC	0.00	51	51	
3452	P-355	207	8.0	-13.93	PVC	0.00	49	49	
3454	P-356	1,892	8.0	-13.93	PVC	0.01	49	49	
3455	P-357	102	8.0	-13.93	PVC	0.00	49	49	
2618	P-881	910	8.0	-13.96	PVC	0.00	46	46	
3076	P-257	1,161	8.0	-14.50	PVC	0.01	45	45	
3079	P-256(2)	43	8.0	-14.50	PVC	0.00	45	45	
3132	P-266(1)(2)	157	8.0	-15.22	PVC	0.00	48	48	
1151	P-184	1,009	8.0	-15.78	PVC	0.01	46	46	
2604	P-873	902	8.0	-16.52	PVC	0.01	46	46	
476	P-82	630	6.0	-16.88	PVC	0.02	47	47	
3068	P-707(1)	46	8.0	-17.18	PVC	0.00	45	45	
1733	P-405	250	6.0	-17.27	PVC	0.01	48	48	
1736	P-408	173	8.0	-17.27	PVC	0.00	48	48	
1499	P-277	358	8.0	-17.94	PVC	0.00	50	50	
1166	P-187	1,025	8.0	-18.08	PVC	0.01	46	46	
1105	P-175	1,062	8.0	-18.12	PVC	0.01	46	46	
1046	P-167	488	8.0	-18.18	PVC	0.00	46	46	
2424	P-783	522	8.0	-18.30	PVC	0.00	51	51	
2428	P-785	298	8.0	-18.30	PVC	0.00	51	51	
2827	P-967	326	6.0	-18.31	PVC	0.01	48	48	
2453	P-799	238	8.0	-18.98	PVC	0.00	51	51	
2442	P-793	687	8.0	-18.98	PVC	0.01	51	51	
413	P-74	405	6.0	-19.78	PVC	0.02	47	47	
2014	P-573	521	6.0	-19.84	PVC	0.02	47	47	
3106	P-266(2)	291	8.0	-19.85	PVC	0.00	48	48	
3193	P-294	399	6.0	-20.30	PVC	0.02	46	46	
1602	P-331	656	6.0	-22.32	PVC	0.03	45	45	
2932	P-892(1)	325	6.0	-23.42	PVC	0.02	47	47	
3338	P-363(2)	415	6.0	-24.14	PVC	0.02	49	49	
1654	P-360	44	6.0	-24.14	PVC	0.00	49	49	
1366	P-204	761	8.0	-24.29	PVC	0.01	47	47	
1807	P-447	766	8.0	-24.88	PVC	0.01	46	46	
416	P-75	405	6.0	-25.83	PVC	0.03	47	47	
1979	P-550	326	6.0	-27.10	PVC	0.02	47	47	
2532	P-840	487	6.0	-27.18	PVC	0.03	49	49	
2536	P-843	156	6.0	-27.18	PVC	0.01	49	49	
2595	P-871	1,064	8.0	-27.52	PVC	0.02	46	46	
2620	P-882	301	8.0	-27.52	PVC	0.01	46	46	
3078	P-256(1)	188	8.0	-27.72	PVC	0.00	45	45	
1960	P-538	321	8.0	-29.28	PVC	0.01	54	54	
3119	P-270	360	8.0	-31.87	PVC	0.01	48	48	
3121	P-271	151	8.0	-31.87	PVC	0.00	48	48	
2246	P-704	256	8.0	-33.12	PVC	0.01	45	45	
2251	P-705	47	8.0	-33.12	PVC	0.00	45	45	
2839	P-974	642	6.0	-33.59	PVC	0.07	50	50	
1968	P-543	325	8.0	-33.74	PVC	0.01	54	54	
2535	P-842	434	6.0	-33.92	PVC	0.05	49	49	
2833	P-970	487	6.0	-34.49	PVC	0.05	49	49	
2621	P-883	378	8.0	-34.90	PVC	0.01	46	46	
3072	P-255	64	8.0	-35.10	PVC	0.00	45	45	
2943	P-6(1)	721	10.0	-36.36	PVC	0.01	46	46	
2944	P-6(2)	173	10.0	-36.36	PVC	0.00	46	46	
1998	P-561	513	6.0	-36.36	PVC	0.06	46	46	
1996	P-560	482	6.0	-36.36	PVC	0.06	46	46	
335	P-57	253	6.0	-36.60	PVC	0.03	49	49	
1481	P-266	57	6.0	-36.60	PVC	0.01	49	49	
3131	P-266(1)(1)	198	8.0	-37.71	PVC	0.01	48	48	
3337	P-363(1)	477	6.0	-38.08	PVC	0.06	49	49	
2401	P-769	393	6.0	-38.76	PVC	0.05	53	53	
2798	P-951	1,015	6.0	-38.87	PVC	0.14	47	47	
3081	P-259	239	8.0	-39.03	PVC	0.01	45	45	
2284	P-709	49	8.0	-39.10	PVC	0.00	45	45	
350	P-60	265	6.0	-39.48	PVC	0.04	50	50	
1477	P-263	517	6.0	-40.01	PVC	0.08	49	49	
1962	P-539	308	8.0	-40.08	PVC	0.01	54	54	
3232	P-305	1,130	8.0	-40.16	PVC	0.04	50	50	
2252	P-706	191	8.0	-40.58	PVC	0.01	45	45	
1408	P-226	278	6.0	-40.86	PVC	0.04	48	48	
1973	P-546	320	8.0	-41.72	PVC	0.01	54	54	
2605	P-874	181	8.0	-42.40	PVC	0.01	46	46	
3167	P-338(2)	1,171	6.0	-42.64	PVC	0.19	46	46	
1616	P-339	428	6.0	-42.64	PVC	0.07	46	46	
919	P-150	165	8.0	-42.77	PVC	0.01	48	48	
1063	P-168	615	6.0	-42.77	PVC	0.10	48	48	
1734	P-406	113	6.0	-42.77	PVC	0.02	48	48	
3071	P-254	236	8.0	-42.81	PVC	0.01	45	45	
1808	P-448	245	8.0	-43.00	PVC	0.01	46	46	
1969	P-544	309	6.0	-43.31	PVC	0.05	54	54	
3123	P-272	193	8.0	-43.68	PVC	0.01	48	48	
893	P-144	308	8.0	-44.34	PVC	0.01	54	54	
1715	P-394	597	8.0	-45.19	PVC	0.03	50	50	

FlexTable: Pipe Table
Current Time: 19.00 hours

ID	Label	Length (Scaled) (ft)	Diameter (in)	Flow (gpm)	Material	Headloss (ft)	Pressure (psi)	Pressure (Start) (psi)	Notes
1910	P-513	852	8.0	-45.88	PVC	0.04	51	51	
878	P-138	150	8.0	-45.91	PVC	0.01	51	51	
1749	P-416	279	8.0	-47.23	PVC	0.01	48	48	
2820	P-952	4,584	6.0	-47.23	Asbestos Cement	1.04	48	48	
1966	P-541	322	8.0	-48.06	PVC	0.02	54	54	
2200	P-689	513	8.0	-48.70	PVC	0.03	51	51	
2201	P-690	762	8.0	-48.70	PVC	0.04	51	51	
3117	P-265(2)	211	8.0	-49.52	PVC	0.01	48	48	
2030	P-585	202	6.0	-50.49	PVC	0.05	47	47	
1915	P-515	273	8.0	-52.29	PVC	0.02	51	51	
1974	P-547	317	8.0	-52.52	PVC	0.02	54	54	
1367	P-205	118	8.0	-53.06	PVC	0.01	47	47	
3084	P-941(1)	331	8.0	-53.10	PVC	0.02	45	45	
1601	P-330	70	6.0	-53.38	PVC	0.02	45	45	
3082	P-260	298	8.0	-53.53	PVC	0.02	45	45	
2320	P-725	25	8.0	-53.53	PVC	0.00	45	45	
1506	P-280	260	8.0	-53.79	PVC	0.02	45	45	
2318	P-724	77	8.0	-53.79	PVC	0.00	45	45	
1457	P-251	80	8.0	-54.53	PVC	0.01	49	49	
1458	P-252	1,266	8.0	-54.53	PVC	0.08	49	49	
1665	P-368	320	8.0	-55.31	PVC	0.02	49	49	
1908	P-512	274	8.0	-55.51	PVC	0.02	51	51	
1738	P-410	78	10.0	-55.66	PVC	0.00	48	48	
434	P-79	392	6.0	-57.43	PVC	0.11	49	49	
876	P-137	155	6.0	-57.83	PVC	0.04	49	49	
993	P-162	360	8.0	-58.01	PVC	0.03	49	49	
1955	P-536	321	6.0	-58.37	PVC	0.09	54	54	
1718	P-397	900	8.0	-60.83	PVC	0.07	50	50	
377	P-67	344	6.0	-61.11	PVC	0.11	48	48	
2078	P-612	31	8.0	-61.15	PVC	0.00	50	50	
2116	P-641	493	8.0	-61.15	PVC	0.04	50	50	
1913	P-514	288	8.0	-61.93	PVC	0.02	51	51	
386	P-68	300	6.0	-63.00	PVC	0.10	49	49	
1497	P-276	162	8.0	-63.14	PVC	0.01	50	50	
1418	P-232	792	6.0	-63.25	PVC	0.27	47	47	
1860	P-480	410	10.0	-63.64	PVC	0.01	50	50	
2477	P-812	193	8.0	-64.33	PVC	0.02	52	52	
2836	P-972	212	6.0	-64.43	PVC	0.08	48	48	
1563	P-307	516	8.0	-64.56	PVC	0.05	51	51	
1565	P-308	319	8.0	-64.56	PVC	0.03	51	51	
1566	P-309	285	8.0	-64.56	PVC	0.02	51	51	
2175	P-678	1,845	8.0	-64.63	PVC	0.16	48	48	
2863	P-989	298	8.0	-65.02	PVC	0.03	55	55	
1573	P-313	136	6.0	-66.03	PVC	0.05	52	52	
1576	P-315	173	8.0	-66.03	PVC	0.02	52	52	
1812	P-452	149	8.0	-66.08	PVC	0.01	46	46	
3125	P-273	169	8.0	-66.16	PVC	0.02	48	48	
3430	P-347	326	6.0	-67.25	PVC	0.13	48	48	
2025	P-581	274	8.0	-67.59	PVC	0.03	47	47	
2210	P-694	231	6.0	-69.05	PVC	0.09	52	52	
1065	P-169	771	8.0	-69.37	PVC	0.08	51	51	
761	P-114	50	8.0	-69.47	PVC	0.00	47	47	
2016	P-574	86	8.0	-69.47	PVC	0.01	47	47	
1604	P-332	709	6.0	-70.33	PVC	0.30	45	45	
1077	P-171	800	8.0	-70.40	PVC	0.08	48	48	
1752	P-417	602	8.0	-70.40	PVC	0.06	48	48	
3198	P-296	385	8.0	-73.19	PVC	0.04	46	46	
3158	P-961(1)	1,510	6.0	-73.82	Asbestos Cement	0.78	48	48	
2645	P-895	304	8.0	-74.47	PVC	0.03	50	50	
2647	P-896	77	8.0	-74.47	PVC	0.01	50	50	
2649	P-897	139	8.0	-74.47	PVC	0.02	50	50	
970	P-158	252	8.0	-75.01	PVC	0.03	49	49	
1863	P-483	814	6.0	-75.36	PVC	0.39	53	53	
2600	P-872	1,530	8.0	-77.30	PVC	0.19	46	46	
2627	P-887	334	8.0	-77.30	PVC	0.04	46	46	
2467	P-806	1,352	8.0	-77.33	PVC	0.17	51	51	
1373	P-206	658	8.0	-77.35	PVC	0.08	47	47	
3344	P-98(1)	189	6.0	-78.83	PVC	0.10	50	50	
3349	P-98(2)(1)	333	6.0	-78.83	PVC	0.17	50	50	
3350	P-98(2)(2)	568	6.0	-78.83	PVC	0.29	50	50	
1273	P-199	1,658	8.0	-80.51	PVC	0.22	51	51	
3113	P-263(1)(2)	177	12.0	-81.39	Ductile Iron	0.00	48	48	
3097	P-264	111	8.0	-81.39	PVC	0.01	48	48	
3116	P-265(1)	398	8.0	-81.39	PVC	0.05	48	48	
1567	P-310	161	8.0	-81.80	PVC	0.02	51	51	
1965	P-540	124	8.0	-81.80	PVC	0.02	54	54	
2026	P-582	314	8.0	-84.47	PVC	0.05	47	47	
2845	P-978	142	8.0	-87.67	PVC	0.02	50	50	
1491	P-272	535	10.0	-87.80	PVC	0.03	50	50	
3222	P-303	904	6.0	-88.04	PVC	0.57	46	46	
1716	P-395	923	8.0	-89.98	PVC	0.15	50	50	
2394	P-765	111	6.0	-90.31	PVC	0.07	53	53	
2405	P-772	532	6.0	-90.31	PVC	0.35	53	53	
1925	P-521	863	8.0	-91.47	PVC	0.14	52	52	

FlexTable: Pipe Table
Current Time: 19.00 hours

ID	Label	Length (Scaled) (ft)	Diameter (in)	Flow (gpm)	Material	Headloss (ft)	Pressure (psi) (Stop)	Pressure (psi) (Start)	Notes
368	P-64	337	6.0	-92.49	PVC	0.23	52	52	
2813	P-958	808	6.0	-92.55	PVC	0.56	48	48	
2455	P-800	434	8.0	-93.94	PVC	0.08	51	51	
2457	P-801	173	8.0	-93.94	PVC	0.03	51	51	
2022	P-578	316	8.0	-95.29	PVC	0.06	47	47	
1669	P-370	653	8.0	-95.74	PVC	0.12	49	49	
2858	P-986	221	6.0	-95.96	PVC	0.16	47	46	
3465	P-366	163	6.0	-95.97	PVC	0.12	50	50	
3469	P-367	694	6.0	-95.97	PVC	0.51	50	50	
1972	P-545	204	8.0	-96.86	PVC	0.04	54	54	
562	P-96	1,086	8.0	-97.28	PVC	0.20	49	49	
1744	P-412	813	6.0	-97.97	PVC	0.63	48	48	
1917	P-516	197	8.0	-98.21	PVC	0.04	51	51	
1737	P-409	736	10.0	-98.43	PVC	0.05	48	48	
2381	P-760	525	6.0	-99.01	PVC	0.41	53	53	
2393	P-764	263	6.0	-99.01	PVC	0.21	53	53	
1986	P-553	137	6.0	-100.20	PVC	0.11	46	46	
3220	P-302	719	6.0	-100.20	PVC	0.58	46	46	
1797	P-441	1,010	8.0	-100.65	PVC	0.20	46	45	
1811	P-451	33	8.0	-100.65	PVC	0.01	46	46	
1365	P-203	249	8.0	-101.42	PVC	0.05	47	47	
1607	P-333	498	6.0	-102.43	PVC	0.42	44	44	
3586	P-957(1)	1,022	6.0	-102.43	PVC	0.86	43	43	
3587	P-957(2)	568	6.0	-102.43	PVC	0.48	44	43	
1546	P-298	971	6.0	-102.65	PVC	0.82	47	47	
1923	P-520	231	8.0	-102.80	PVC	0.05	51	51	
2847	P-979	618	6.0	-103.82	PVC	0.53	51	51	
2019	P-576	316	8.0	-104.25	PVC	0.07	47	47	
1938	P-527	176	8.0	-105.05	PVC	0.04	56	56	
1936	P-526	229	8.0	-105.05	PVC	0.05	56	56	
1544	P-297	438	6.0	-105.22	PVC	0.39	47	47	
3569	P-307(2)(1)(2)	413	8.0	-105.44	PVC	0.09	50	50	
1842	P-469	660	8.0	-105.60	PVC	0.14	47	47	
1717	P-396	53	8.0	-105.61	PVC	0.01	50	50	
2499	P-824	272	8.0	-106.21	PVC	0.06	50	50	
2503	P-826	137	8.0	-106.21	PVC	0.03	50	50	
2520	P-833	150	8.0	-106.21	PVC	0.03	50	50	
2525	P-836	195	8.0	-106.21	PVC	0.04	50	50	
2524	P-835	136	8.0	-106.21	PVC	0.03	50	50	
2515	P-831	236	8.0	-106.21	PVC	0.05	50	50	
2125	P-643	589	6.0	-106.28	PVC	0.53	52	51	
3275	P-892(2)(2)	1,362	6.0	-106.70	PVC	1.23	47	47	
1543	P-296	1,015	6.0	-107.29	PVC	0.92	47	47	
3008	P-954(1)	505	8.0	-107.32	PVC	0.11	45	45	
3009	P-954(2)	571	8.0	-107.32	PVC	0.13	45	45	
902	P-146	165	8.0	-111.44	PVC	0.04	46	46	
635	P-101	1,649	6.0	-111.45	PVC	1.61	51	51	
946	P-155	320	8.0	-112.64	PVC	0.08	49	49	
1865	P-485	111	8.0	-112.64	PVC	0.03	49	49	
1577	P-316	474	8.0	-112.87	PVC	0.12	52	51	
1580	P-317	889	8.0	-112.87	PVC	0.22	52	52	
2452	P-798	253	8.0	-112.93	PVC	0.06	51	51	
2024	P-580	314	8.0	-115.07	PVC	0.08	47	47	
1528	P-287	371	8.0	-115.96	PVC	0.10	46	46	
2334	P-735	63	8.0	-115.96	PVC	0.02	46	46	
2331	P-732	660	8.0	-117.18	PVC	0.17	46	46	
544	P-94	943	6.0	-117.99	PVC	1.02	50	49	
1819	P-456	367	8.0	-118.15	PVC	0.10	46	46	
2469	P-807	332	8.0	-118.79	PVC	0.09	51	51	
1921	P-518	244	8.0	-118.88	PVC	0.07	51	51	
2826	P-966	646	8.0	-120.67	PVC	0.18	49	48	
2112	P-639	478	6.0	-124.87	PVC	0.58	49	49	
2097	P-628	238	6.0	-125.30	PVC	0.29	49	48	
1991	P-556	867	6.0	-125.60	PVC	1.06	46	46	
2366	P-751	384	8.0	-128.57	PVC	0.12	52	52	
2987	P-955(1)	691	8.0	-129.12	PVC	0.22	45	45	
3127	P-274	646	8.0	-129.68	PVC	0.21	48	48	
3137	P-278	330	8.0	-129.68	PVC	0.11	48	48	
521	P-90	1,047	6.0	-129.78	PVC	1.36	52	52	
2020	P-577	172	8.0	-130.08	PVC	0.06	47	47	
1530	P-288	312	8.0	-131.13	PVC	0.10	46	46	
3088	P-86(2)	88	6.0	-131.57	PVC	0.12	48	48	
2023	P-579	274	8.0	-131.95	PVC	0.09	47	47	
2176	P-679	754	8.0	-135.03	PVC	0.26	49	48	
1232	P-194	1,264	8.0	-135.03	PVC	0.43	49	49	
1764	P-422	101	8.0	-135.03	PVC	0.03	49	49	
2479	P-813	1,167	8.0	-137.13	PVC	0.41	52	52	
2481	P-814	110	8.0	-137.13	PVC	0.04	52	52	
2487	P-817	80	8.0	-137.13	PVC	0.03	52	52	
2289	P-712	336	10.0	-137.28	PVC	0.04	45	45	
2295	P-714	1,313	8.0	-137.28	PVC	0.47	45	45	
2653	P-899	234	6.0	-138.12	PVC	0.34	50	50	
2655	P-900	71	6.0	-138.12	PVC	0.10	51	50	

FlexTable: Pipe Table
Current Time: 19.00 hours

ID	Label	Length (Scaled) (ft)	Diameter (In)	Flow (gpm)	Material	Headloss (ft)	Pressure (Stop) (psi)	Pressure (Start) (psi)	Notes
2656	P-901	185	6.0	-138.12	PVC	0.27	51	51	
3401	P-337	252	6.0	-138.80	PVC	0.37	48	48	
2482	P-815	1,352	8.0	-140.01	PVC	0.50	52	52	
2367	P-752	438	8.0	-142.27	PVC	0.17	52	52	
1625	P-346	304	8.0	-143.61	PVC	0.12	46	46	
1968	P-311	527	8.0	-146.36	PVC	0.21	51	51	
2848	P-980	637	6.0	-146.62	PVC	1.04	51	51	
1866	P-486	33	8.0	-146.87	PVC	0.01	49	49	
1672	P-372	153	8.0	-146.87	PVC	0.06	49	49	
3085	P-941(2)	1,229	8.0	-146.93	PVC	0.49	45	45	
1363	P-202	933	6.0	-148.35	PVC	1.55	52	52	
2143	P-654	471	6.0	-148.35	PVC	0.78	53	52	
2145	P-655	432	6.0	-148.35	PVC	0.72	53	53	
2146	P-656	161	6.0	-148.35	PVC	0.27	53	53	
3403	P-600(1)	245	6.0	-148.40	PVC	0.41	50	49	
3404	P-600(2)	216	6.0	-148.40	PVC	0.36	50	50	
1609	P-334	653	6.0	-149.07	PVC	1.09	44	44	
1610	P-335	762	6.0	-149.07	PVC	1.28	45	44	
2327	P-730	131	8.0	-149.48	PVC	0.05	46	46	
3532	P-397	620	8.0	-149.48	PVC	0.26	46	46	
3112	P-263(1)(1)	886	12.0	-149.52	Ductile Iron	0.07	48	48	
1745	P-413	1,760	8.0	-150.08	PVC	0.74	48	48	
3012	P-630(1)	376	8.0	-151.91	PVC	0.16	48	48	
1451	P-247	129	10.0	-153.63	PVC	0.02	48	48	
2636	P-891	29	6.0	-154.11	PVC	0.05	47	47	
1883	P-497	437	6.0	-155.30	PVC	0.79	50	50	
1884	P-498	416	6.0	-155.30	PVC	0.75	50	50	
2312	P-721	331	6.0	-155.30	PVC	0.60	45	45	
2178	P-680	473	8.0	-157.51	PVC	0.22	52	51	
2377	P-758	688	6.0	-158.42	PVC	1.29	52	52	
2379	P-759	464	6.0	-158.42	PVC	0.87	53	52	
1990	P-555	160	6.0	-161.97	PVC	0.31	47	46	
1988	P-554	124	6.0	-161.97	PVC	0.24	47	47	
2970	P-271(2)	42	10.0	-163.65	PVC	0.01	50	50	
3605	P-779(1)	635	10.0	-163.83	PVC	0.11	54	54	
1919	P-517	257	8.0	-167.58	PVC	0.13	51	51	
1922	P-519	112	8.0	-167.58	PVC	0.06	51	51	
1535	P-293	1,360	8.0	-167.76	PVC	0.70	47	46	
1536	P-294	75	8.0	-167.76	PVC	0.04	47	47	
2127	P-644	190	6.0	-169.58	PVC	0.40	52	52	
1137	P-180	919	8.0	-174.54	PVC	0.51	48	48	
3519	P-365(1)	51	6.0	-174.80	PVC	0.12	49	49	
3524	P-365(2)(1)	262	6.0	-174.80	PVC	0.59	49	49	
3525	P-365(2)(2)	732	6.0	-174.80	PVC	1.65	50	49	
2403	P-771	273	6.0	-176.32	PVC	0.62	53	53	
3536	P-360(1)	1,020	8.0	-177.52	PVC	0.58	46	46	
3225	P-890(2)	405	6.0	-177.53	PVC	0.94	47	46	
2632	P-888	186	6.0	-181.21	PVC	0.45	47	47	
2111	P-638	386	6.0	-182.30	PVC	0.94	49	49	
1820	P-457	302	8.0	-185.36	PVC	0.19	46	46	
1623	P-345	222	8.0	-185.99	PVC	0.14	46	46	
3540	P-360(2)(1)	903	8.0	-189.68	PVC	0.58	46	46	
2473	P-810	1,348	8.0	-196.09	PVC	0.92	51	51	
2463	P-804	649	8.0	-196.13	PVC	0.44	51	51	
121	P-12	1,396	12.0	-197.40	PVC	0.13	45	45	
3616	P-432	300	8.0	-197.40	PVC	0.21	45	45	
3618	P-433	483	8.0	-197.40	PVC	0.34	45	45	
3622	P-434	287	8.0	-197.40	PVC	0.20	46	45	
2296	P-715	1,339	8.0	-198.75	PVC	0.94	45	45	
1831	P-465	151	8.0	-202.24	PVC	0.11	46	46	
2475	P-811	416	8.0	-204.35	PVC	0.31	52	52	
1692	P-379	80	6.0	-209.18	PVC	0.25	51	51	
1693	P-380	469	6.0	-209.18	PVC	1.47	52	52	
2849	P-981	413	6.0	-209.18	PVC	1.30	53	52	
3360	P-378(1)	178	6.0	-210.03	PVC	0.56	49	49	
3379	P-378(2)(1)	238	6.0	-210.03	PVC	0.75	50	49	
3380	P-378(2)(2)	234	6.0	-210.03	PVC	0.74	50	50	
484	P-84	675	6.0	-210.38	PVC	2.14	53	52	
1852	P-475	168	6.0	-216.27	PVC	0.56	50	50	
1488	P-269	228	6.0	-219.40	PVC	0.78	45	45	
1486	P-268	361	6.0	-219.40	PVC	1.24	46	45	
1631	P-349	570	6.0	-219.40	PVC	1.96	47	46	
2407	P-774	119	6.0	-223.77	PVC	0.42	53	53	
1627	P-347	87	8.0	-223.91	PVC	0.08	46	46	
1629	P-348	516	8.0	-223.91	PVC	0.45	47	46	
1633	P-351	226	8.0	-223.91	PVC	0.20	47	47	
1983	P-551	170	6.0	-225.80	PVC	0.61	45	45	
2010	P-571	896	6.0	-225.80	PVC	3.24	46	44	
1984	P-552	95	6.0	-225.80	PVC	0.34	45	45	
3224	P-890(1)	466	6.0	-225.80	PVC	1.69	46	45	
2043	P-592	753	8.0	-227.22	PVC	0.68	48	47	
3460	P-362	667	8.0	-227.90	PVC	0.60	52	52	
1465	P-255	979	8.0	-230.56	PVC	0.91	48	48	
1466	P-256	104	6.0	-230.56	PVC	0.39	48	48	

FlexTable: Pipe Table
Current Time: 19.00 hours

ID	Label	Length (Scaled) (ft)	Diameter (in)	Flow (gpm)	Material	Headloss (ft)	Pressure (Stop) (psi)	Pressure (Start) (psi)	Notes
1452	P-248	387	10.0	-234.10	PVC	0.12	48	48	
1869	P-489	814	10.0	-234.10	PVC	0.26	49	48	
1977	P-548	625	6.0	-235.44	PVC	2.44	48	47	
3013	P-630(2)	472	8.0	-237.60	PVC	0.46	49	48	
1683	P-376	159	6.0	-242.30	PVC	0.65	49	49	
1684	P-377	505	6.0	-242.30	PVC	2.08	50	49	
1670	P-371	347	8.0	-242.61	PVC	0.35	49	49	
2975	P-231	32	10.0	-242.70	PVC	0.01	47	47	
1701	P-384	90	6.0	-243.62	PVC	0.37	51	51	
1704	P-387	353	6.0	-243.62	PVC	1.47	51	50	
1702	P-385	330	6.0	-243.62	PVC	1.38	51	51	
1703	P-386	68	6.0	-243.62	PVC	0.28	50	50	
1705	P-388	101	8.0	-245.20	PVC	0.11	49	49	
985	P-161	340	8.0	-245.20	PVC	0.35	50	50	
1706	P-389	323	8.0	-245.20	PVC	0.34	50	49	
2180	P-682	448	8.0	-254.68	PVC	0.50	51	50	
2207	P-692	407	8.0	-254.68	PVC	0.45	51	51	
2208	P-693	233	8.0	-254.68	PVC	0.26	51	51	
2213	P-696	482	6.0	-254.68	PVC	2.18	52	51	
3024	P-912(1)	81	6.0	-260.10	PVC	0.38	55	55	
1857	P-477	632	8.0	-260.85	PVC	0.74	51	50	
3573	P-984(2)	54	8.0	-261.28	PVC	0.06	49	49	
1393	P-218	543	6.0	-263.46	PVC	2.61	56	55	
1619	P-341	179	8.0	-263.48	PVC	0.21	46	46	
3023	P-533(2)	240	8.0	-265.44	Asbestos Cement	0.33	56	55	
2341	P-739	1,338	8.0	-270.38	PVC	1.66	51	51	
2342	P-740	29	8.0	-270.38	PVC	0.04	51	51	
1746	P-414	879	8.0	-281.65	PVC	1.18	48	48	
1524	P-286	520	8.0	-287.49	PVC	0.72	46	46	
2121	P-642	914	8.0	-289.66	PVC	1.29	49	48	
1939	P-528	62	8.0	-289.88	PVC	0.09	56	56	
3459	P-361	593	8.0	-291.20	PVC	0.85	52	51	
3575	p-307(2)(1)(1)	462	8.0	-298.70	PVC	0.69	50	49	
3620	P-955(2)(1)	1,177	8.0	-299.02	PVC	1.76	46	45	
1632	P-350	52	6.0	-299.44	PVC	0.32	47	47	
2416	P-780	35	10.0	-304.00	PVC	0.02	54	54	
3606	P-779(2)	618	10.0	-304.00	PVC	0.32	54	54	
1931	P-525	541	8.0	-306.10	PVC	0.85	53	53	
2390	P-762	243	8.0	-306.10	PVC	0.38	53	53	
2350	P-744	208	8.0	-313.79	PVC	0.34	52	52	
2375	P-757	86	8.0	-313.79	PVC	0.14	52	52	
2214	P-697	455	6.0	-323.73	PVC	3.20	53	52	
3541	P-360(2)(2)	394	8.0	-325.99	PVC	0.69	47	46	
2179	P-681	624	8.0	-329.15	PVC	1.12	50	50	
1555	P-303	895	8.0	-333.98	PVC	1.64	50	50	
533	P-92	776	6.0	-338.27	PVC	5.93	53	50	
1004	P-163	376	8.0	-339.28	PVC	0.71	46	46	
3025	P-912(2)	1,250	6.0	-341.10	PVC	9.70	60	55	
961	P-157	290	8.0	-343.18	PVC	0.56	48	47	
1442	P-243	60	6.0	-344.08	PVC	0.47	50	50	
3022	P-533(1)	184	8.0	-346.44	Asbestos Cement	0.41	55	55	
2038	P-589	74	8.0	-353.51	PVC	0.15	47	47	
2039	P-590	75	8.0	-353.51	PVC	0.15	47	47	
1870	P-490	307	10.0	-354.77	PVC	0.21	49	49	
1245	P-196	1,317	8.0	-356.42	PVC	2.73	55	54	
2679	P-909	1,313	6.0	-356.42	PVC	11.06	60	55	
596	P-99	1,258	6.0	-361.23	PVC	10.86	60	55	
2037	P-588	183	8.0	-379.34	PVC	0.43	47	47	
1942	P-529	247	8.0	-394.93	PVC	0.62	56	55	
1712	P-392	69	10.0	-396.41	PVC	0.06	49	49	
1708	P-390	158	10.0	-396.41	PVC	0.13	49	49	
1709	P-391	67	10.0	-396.41	PVC	0.06	49	49	
2169	P-674	1,364	10.0	-408.66	PVC	1.23	49	48	
1767	P-423	330	10.0	-409.30	PVC	0.30	49	49	
2045	P-593	419	8.0	-414.34	PVC	1.15	48	48	
2411	P-777	158	6.0	-421.27	PVC	1.81	54	53	
2093	P-624	39	8.0	-434.75	PVC	0.12	49	49	
2102	P-631	256	8.0	-434.75	PVC	0.77	49	49	
2170	P-675	538	10.0	-443.51	PVC	0.56	49	49	
1379	P-209	129	10.0	-444.54	PVC	0.14	58	58	
2398	P-767	259	8.0	-452.05	PVC	0.84	53	52	
2374	P-756	159	8.0	-472.21	PVC	0.55	52	51	
1445	P-244	24	10.0	-482.48	PVC	0.03	48	48	
1897	P-506	29	10.0	-489.55	PVC	0.04	52	52	
1899	P-507	367	10.0	-489.55	PVC	0.46	52	52	
1901	P-508	377	10.0	-489.55	PVC	0.47	52	52	
3621	P-955(2)(2)	137	8.0	-496.42	PVC	0.52	46	46	
1769	P-424	54	10.0	-506.58	PVC	0.07	49	49	
3356	P-393(1)	346	10.0	-519.80	PVC	0.49	50	49	
3376	P-393(2)(1)	236	10.0	-519.80	PVC	0.33	50	50	
3377	P-393(2)(2)	218	10.0	-519.80	PVC	0.31	50	50	
1403	P-222	41	10.0	-520.25	PVC	0.06	54	54	
54	P-2	80	10.0	-522.55	PVC	0.11	49	49	

FlexTable: Pipe Table
Current Time: 19.00 hours

ID	Label	Length (Scaled) (ft)	Diameter (in)	Flow (gpm)	Material	Headloss (ft)	Pressure (Stop) (psi)	Pressure (Start) (psi)	Notes
110	P-10	326	12.0	-522.55	PVC	0.19	49	49	
1559	P-306	550	8.0	-536.77	PVC	2.43	51	50	
2851	P-982	686	12.0	-545.45	PVC	0.43	55	55	
2961	P-736(1)	64	6.0	-546.40	PVC	1.19	50	50	
2788	P-946	618	8.0	-555.32	PVC	2.92	57	56	
1895	P-505	395	10.0	-560.89	PVC	0.64	52	51	
1943	P-530	805	8.0	-564.93	PVC	3.92	55	53	
2397	P-766	190	8.0	-568.95	PVC	0.94	52	52	
2851	P-987	1,201	8.0	-574.37	PVC	6.03	55	52	
1887	P-501	690	10.0	-577.01	PVC	1.18	50	50	
1542	P-295	350	8.0	-578.22	PVC	1.78	47	46	
1978	P-549	662	6.0	-578.62	PVC	13.67	54	48	
1953	P-535	38	6.0	-578.62	PVC	0.78	54	54	
2166	P-672	152	10.0	-579.13	PVC	0.26	50	50	
1944	P-531	193	8.0	-604.23	PVC	1.06	55	55	
2686	P-913	1,325	8.0	-614.89	PVC	7.54	59	56	
2165	P-671	639	10.0	-618.60	PVC	1.24	50	49	
2156	P-663	175	8.0	-638.69	PVC	1.07	47	47	
1858	P-478	1,033	8.0	-641.27	PVC	6.36	53	51	
1697	P-381	480	8.0	-641.27	PVC	2.96	55	53	
1770	P-425	651	10.0	-641.61	PVC	1.35	49	49	
1399	P-221	346	10.0	-657.96	PVC	0.75	50	50	
1428	P-236	82	10.0	-657.96	PVC	0.18	50	50	
2852	P-983	635	12.0	-663.25	PVC	0.58	55	55	
1893	P-504	155	10.0	-667.18	PVC	0.35	51	51	
1551	P-300	791	8.0	-677.56	PVC	5.39	49	47	
1947	P-532	34	8.0	-707.67	PVC	0.25	55	55	
2957	P-776(2)	1,284	10.0	-707.67	PVC	3.20	55	54	
3572	P-984(1)	204	8.0	-708.44	PVC	1.51	49	49	
2862	P-988	988	8.0	-713.28	PVC	7.40	58	55	
2086	P-617	45	10.0	-716.27	PVC	0.11	50	50	
2789	P-947	649	8.0	-762.37	PVC	5.51	59	57	
1581	P-318	470	12.0	-770.38	PVC	0.56	49	49	
2675	P-908	1,352	8.0	-827.47	PVC	13.34	60	54	
1891	P-503	317	10.0	-846.92	PVC	1.10	51	51	
1552	P-301	56	8.0	-880.38	PVC	0.62	50	49	
1889	P-502	151	10.0	-950.75	PVC	0.65	51	50	
2085	P-616	26	10.0	-961.88	PVC	0.11	50	50	
104	P-9	130	12.0	-1,058.07	PVC	0.28	49	49	
1381	P-211	152	12.0	-1,157.82	PVC	0.39	58	58	
2722	P-927	73	14.0	-2,538.00	PVC	0.38	60	61	
3498	P-373	31	8.0	(N/A)	PVC	(N/A)	(N/A)	(N/A)	
3499	P-374	1,258	8.0	(N/A)	PVC	(N/A)	(N/A)	(N/A)	
3500	P-375	85	8.0	(N/A)	PVC	(N/A)	(N/A)	(N/A)	
3501	P-376	598	8.0	(N/A)	PVC	(N/A)	(N/A)	(N/A)	
3502	P-377	1,256	8.0	(N/A)	PVC	(N/A)	(N/A)	(N/A)	
3503	P-378	577	8.0	(N/A)	PVC	(N/A)	(N/A)	(N/A)	
3504	P-379	1,268	8.0	(N/A)	PVC	(N/A)	(N/A)	(N/A)	
3505	P-380	1,319	8.0	(N/A)	PVC	(N/A)	(N/A)	(N/A)	
3506	P-381	591	8.0	(N/A)	PVC	(N/A)	(N/A)	(N/A)	
3508	P-382	704	8.0	(N/A)	PVC	(N/A)	(N/A)	(N/A)	
3509	P-383	83	8.0	(N/A)	PVC	(N/A)	(N/A)	(N/A)	
3510	P-384	586	8.0	(N/A)	PVC	(N/A)	(N/A)	(N/A)	
3511	P-385	55	8.0	(N/A)	PVC	(N/A)	(N/A)	(N/A)	
3512	P-386	1,124	8.0	(N/A)	PVC	(N/A)	(N/A)	(N/A)	
3517	P-389	58	12.0	(N/A)	Ductile Iron	(N/A)	(N/A)	(N/A)	
3547	P-404	2,675	12.0	(N/A)	Ductile Iron	(N/A)	(N/A)	(N/A)	
3548	P-405	2,571	12.0	(N/A)	Ductile Iron	(N/A)	(N/A)	(N/A)	
3549	P-406	2,714	8.0	(N/A)	PVC	(N/A)	(N/A)	(N/A)	
3550	P-407	1,139	8.0	(N/A)	PVC	(N/A)	(N/A)	(N/A)	
3551	P-408	1,134	8.0	(N/A)	PVC	(N/A)	(N/A)	(N/A)	
3552	P-409	315	8.0	(N/A)	PVC	(N/A)	(N/A)	(N/A)	
3553	P-410	149	8.0	(N/A)	PVC	(N/A)	(N/A)	(N/A)	
3554	P-411	2,265	8.0	(N/A)	PVC	(N/A)	(N/A)	(N/A)	
3598	P-423	1,568	8.0	(N/A)	PVC	(N/A)	(N/A)	(N/A)	
3599	P-424	60	8.0	(N/A)	PVC	(N/A)	(N/A)	(N/A)	
3603	P-425	67	6.0	(N/A)	PVC	(N/A)	(N/A)	(N/A)	
3609	P-428	1,210	10.0	(N/A)	PVC	(N/A)	(N/A)	(N/A)	

**Scenario: 2027
Tank Cycling Analysis**

Tank Table - Time: 0.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	-1,127.18	223.50	98.6	Filling
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	-1,142.92	215.25	99.1	Filling
1356	Tank No. 3 - 9th Street	102.00	186.00	220.25	220.37	-3,492.01	220.25	99.7	Filling
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	-288.11	98.50	92.3	Filling
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	-3,075.19	111.50	96.9	Filling

Tank Table - Time: 1.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	241.11	216.86	72.2	Emptying
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	492.14	214.81	96.9	Emptying
1356	Tank No. 3 - 9th Street	102.00	186.00	220.25	220.37	938.18	215.49	85.8	Emptying
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	773.66	98.08	85.9	Emptying
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	-0.05	112.00	100.0	Filling

Tank Table - Time: 2.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	307.80	217.98	76.6	Emptying
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	428.72	215.34	99.6	Emptying
1356	Tank No. 3 - 9th Street	102.00	186.00	220.25	220.37	944.31	216.28	88.1	Emptying
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	-241.32	97.83	82.1	Filling
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	-10,236.25	111.53	97.0	Filling

Tank Table - Time: 3.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	662.90	219.56	82.9	Emptying
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	716.44	215.37	99.7	Emptying
1356	Tank No. 3 - 9th Street	102.00	186.00	220.25	220.37	1,527.45	217.63	92.0	Emptying
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	-243.85	98.49	92.2	Filling
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	-4,800.54	111.86	99.1	Filling

Tank Table - Time: 4.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	1,242.59	220.06	85.0	Emptying
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	1,512.94	214.94	97.6	Emptying
1356	Tank No. 3 - 9th Street	102.00	186.00	220.25	220.37	2,590.36	218.45	94.4	Emptying
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	766.81	98.54	93.0	Emptying
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	-1.04	112.00	100.0	Filling

Tank Table - Time: 5.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	1,355.64	220.41	86.3	Emptying
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	1,152.55	214.41	95.0	Emptying
1356	Tank No. 3 - 9th Street	102.00	186.00	220.25	220.37	-1,775.33	218.63	94.9	Filling

Tank Table - Time: 5.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	-1,005.50	98.18	87.5	Filling
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	2,705.17	111.85	99.0	Emptying

Tank Table - Time: 6.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	507.06	218.73	79.6	Emptying
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	918.13	211.87	82.3	Emptying
1356	Tank No. 3 - 9th Street	102.00	186.00	220.25	220.37	0.00	220.37	100.0	Full
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	763.06	98.21	87.8	Emptying
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	-16,237.84	110.09	88.1	Filling

Tank Table - Time: 7.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	-707.19	214.24	61.7	Filling
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	-143.56	208.14	63.9	Filling
1356	Tank No. 3 - 9th Street	102.00	186.00	220.25	220.37	0.00	220.37	100.0	Full
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	-212.09	97.74	80.7	Filling
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	-26,184.17	108.20	76.3	Filling

Tank Table - Time: 8.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	-1,414.34	221.09	89.0	Filling
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	-1,348.31	208.99	68.1	Filling
1356	Tank No. 3 - 9th Street	102.00	186.00	220.25	220.37	0.00	220.37	100.0	Full
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	-259.76	98.35	90.0	Filling
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	-39,453.61	105.20	57.5	Filling

Tank Table - Time: 9.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	1,661.58	221.91	92.3	Emptying
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	1,044.33	214.99	97.8	Emptying
1356	Tank No. 3 - 9th Street	102.00	186.00	220.25	220.37	2,184.26	219.37	97.1	Emptying
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	0.00	99.00	100.0	Filling
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	-11.82	112.00	100.0	Filling

Tank Table - Time: 10.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	-1,165.31	218.60	79.1	Filling
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	-988.37	214.70	96.4	Filling
1356	Tank No. 3 - 9th Street	102.00	186.00	220.25	220.37	0.00	220.37	100.0	Full
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	0.00	99.00	100.0	Filling
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	-6,967.01	111.29	95.5	Filling

Tank Table - Time: 11.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	-1,165.31	218.60	79.1	Filling
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	-988.37	214.70	96.4	Filling
1356	Tank No. 3 - 9th Street	102.00	186.00	220.25	220.37	0.00	220.37	100.0	Full
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	0.00	99.00	100.0	Filling
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	-6,967.01	111.29	95.5	Filling

Tank Table - Time: 11.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	984.59	220.19	85.4	Emptying
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	1,034.35	214.62	96.0	Emptying
1356	Tank No. 3 - 9th Street	102.00	186.00	220.25	220.37	2,115.61	218.54	94.7	Emptying
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	755.61	97.77	81.0	Emptying
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	-5.61	112.00	100.0	Filling

Tank Table - Time: 12.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	-1,581.82	223.10	97.1	Filling
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	-1,214.02	215.15	98.6	Filling
1356	Tank No. 3 - 9th Street	102.00	186.00	220.25	220.37	0.00	220.37	100.0	Full
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	-302.25	97.97	84.2	Filling
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	2,415.34	111.87	99.2	Emptying

Tank Table - Time: 13.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	-15.03	217.93	76.4	Filling
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	-91.63	214.44	95.1	Filling
1356	Tank No. 3 - 9th Street	102.00	186.00	220.25	220.37	-2,685.41	218.90	95.7	Filling
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	0.00	99.00	100.0	Filling
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	-3,097.60	111.56	97.3	Filling

Tank Table - Time: 14.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	1,054.72	222.19	93.4	Emptying
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	938.05	215.36	99.7	Emptying
1356	Tank No. 3 - 9th Street	102.00	186.00	220.25	220.37	2,152.36	220.21	99.5	Emptying
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	745.04	98.16	87.1	Emptying
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	-10,342.15	111.59	97.5	Filling

Tank Table - Time: 15.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	-428.34	220.93	88.4	Filling
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	-288.29	214.53	95.6	Filling
1356	Tank No. 3 - 9th Street	102.00	186.00	220.25	220.37	-2,787.99	219.37	97.1	Filling
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	-266.27	97.82	81.9	Filling
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	-1,146.40	111.63	97.7	Filling

Tank Table - Time: 16.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	1,523.36	220.05	84.9	Emptying
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	1,112.64	215.01	97.9	Emptying
1356	Tank No. 3 - 9th Street	102.00	186.00	220.25	220.37	2,254.17	219.49	97.4	Emptying
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	0.00	99.00	100.0	Filling
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	-15.31	112.00	100.0	Filling

Tank Table - Time: 17.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	-1,245.30	219.60	83.1	Filling
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	-581.20	214.69	96.3	Filling
1356	Tank No. 3 - 9th Street	102.00	186.00	220.25	220.37	0.00	220.37	100.0	Full
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	742.57	98.51	92.4	Emptying
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	-7,896.62	111.18	94.9	Filling

Tank Table - Time: 18.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	795.85	223.84	100.0	Emptying
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	331.68	215.31	99.4	Emptying
1356	Tank No. 3 - 9th Street	102.00	186.00	220.25	220.37	0.00	220.37	100.0	Full
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	-1,006.12	97.83	82.1	Filling
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	-82.73	111.72	98.2	Filling

Tank Table - Time: 19.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	335.65	217.84	76.1	Emptying
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	1,058.07	213.59	90.9	Emptying
1356	Tank No. 3 - 9th Street	102.00	186.00	220.25	220.37	0.00	220.37	100.0	Full
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	772.27	98.80	96.9	Emptying
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	-3,639.59	111.53	97.0	Filling

Tank Table - Time: 20.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	-786.01	214.46	62.6	Filling
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	-96.97	209.37	70.0	Filling
1356	Tank No. 3 - 9th Street	102.00	186.00	220.25	220.37	0.00	220.37	100.0	Full
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	-223.49	97.56	77.8	Filling
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	-10,878.38	110.71	91.9	Filling

Tank Table - Time: 21.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	-1,910.43	221.85	92.1	Filling
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	-1,812.92	209.98	73.0	Filling
1356	Tank No. 3 - 9th Street	102.00	186.00	220.25	220.37	0.00	220.37	100.0	Full
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	-280.51	98.18	87.4	Filling
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	-40,378.07	105.02	56.4	Filling

Tank Table - Time: 22.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	229.99	217.35	74.1	Emptying
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	248.57	214.53	95.5	Emptying
1356	Tank No. 3 - 9th Street	102.00	186.00	220.25	220.37	1,190.56	217.10	90.5	Emptying
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	775.97	98.91	98.6	Emptying
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	-0.08	112.00	100.0	Filling

Tank Table - Time: 23.00 hours

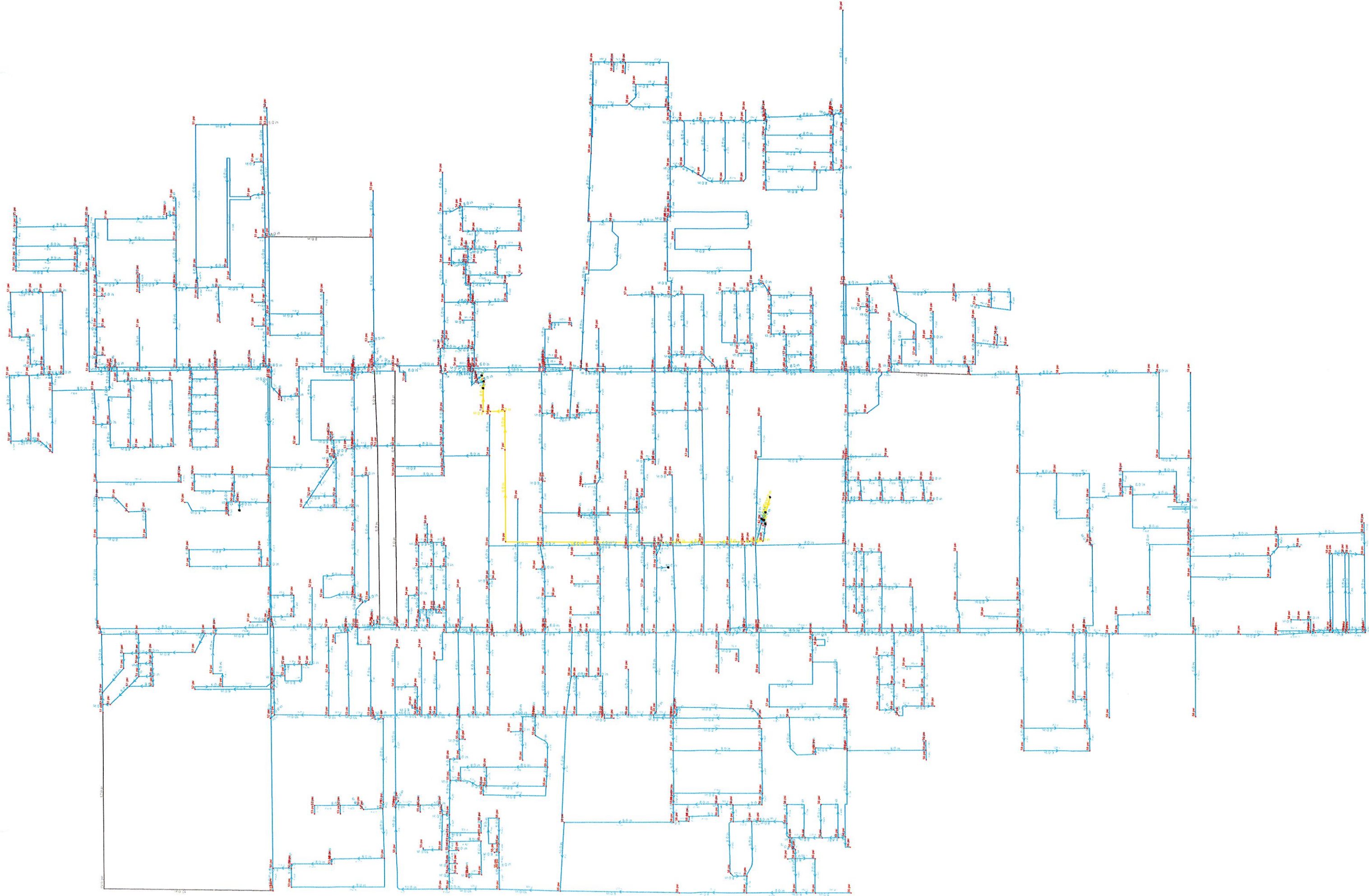
Tank Table - Time: 23.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	336.55	218.54	78.9	Emptying
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	292.12	215.30	99.3	Emptying
1356	Tank No. 3 - 9th Street	102.00	186.00	220.25	220.37	1,058.19	217.16	90.7	Emptying
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	-248.86	97.54	77.5	Filling
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	-6,608.33	111.77	98.6	Filling

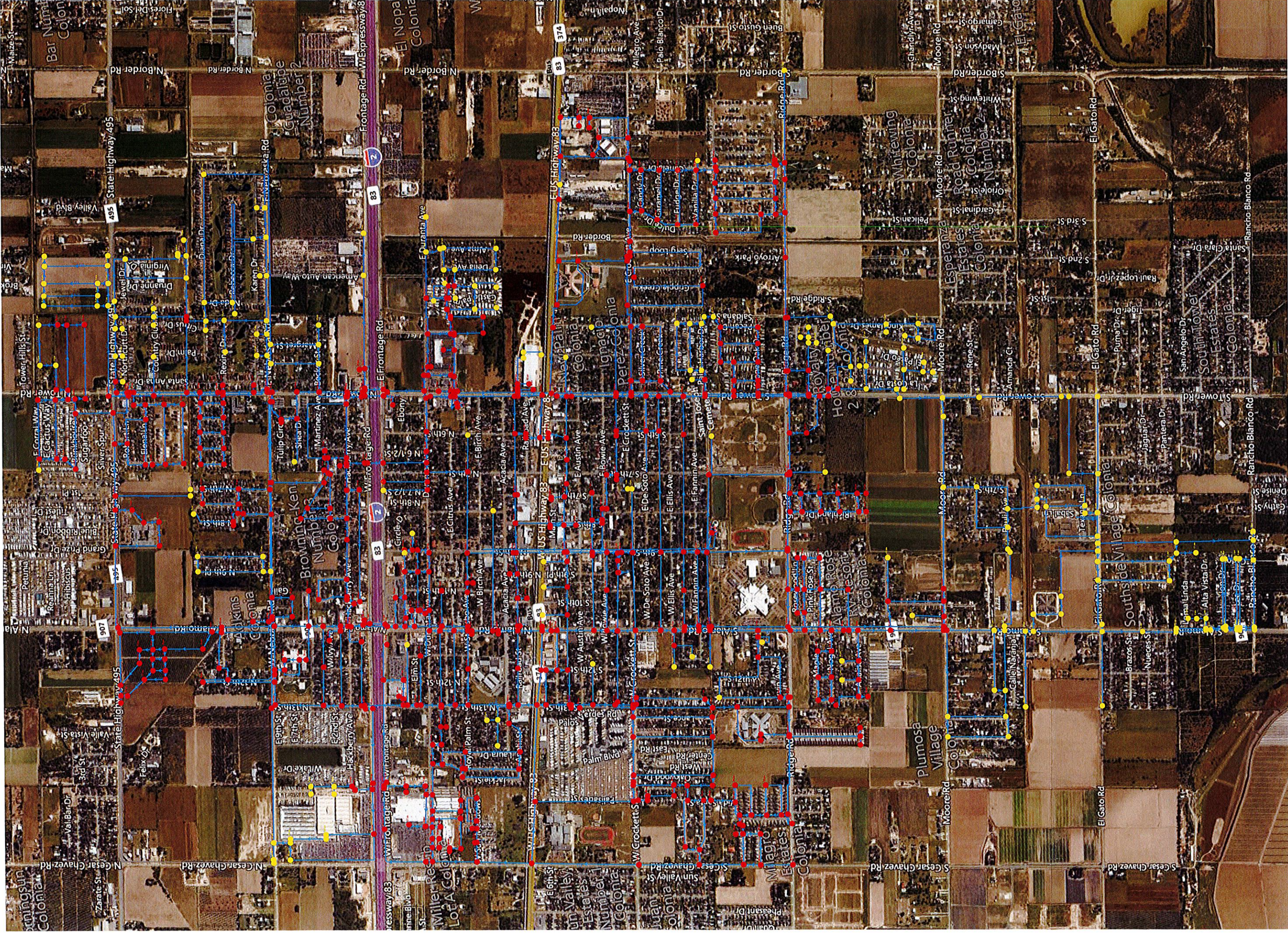
Tank Table - Time: 24.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	465.58	220.21	85.5	Emptying
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	86.08	215.42	100.0	Emptying
1356	Tank No. 3 - 9th Street	102.00	186.00	220.25	220.37	1,141.50	218.33	94.1	Emptying
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	-251.62	98.21	87.8	Filling
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	-14,182.89	111.17	94.8	Filling

Scenario: 2032 CIP Peak Flow @ 1.5 gpm - 7030 Connections



Scenario: Fire Flow Analysis 2032 CIP @ 2 Hr Peak



**Scenario: 2032
Fire Flow Analysis
@ Daily Average 1500 gpm**

Fire Flow Results Table

Label	Is Fire Flow Run Balanced?	Satisfies Fire Flow Constraints?	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Fire Flow Status	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Residual) (psi)
J-1	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	25
J-2	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	40	21
J-3	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	44	31
J-4	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	44	31
J-5	True	True	1,500.00	3,322.64	1,500.00	3,322.64	Passed	40	20
J-6	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	24
J-7	True	True	1,500.00	3,005.57	1,500.00	3,005.57	Passed	39	20
J-8	True	True	1,500.00	2,715.46	1,597.24	2,812.70	Passed	37	20
J-9	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	52	49
J-10	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	24
J-11	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	25
J-12	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	22
J-13	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	47	40
J-16	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	23
J-17	True	True	1,500.00	3,406.38	1,500.00	3,406.38	Passed	40	20
J-18	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	22
J-19	True	True	1,500.00	2,617.77	1,559.74	2,677.51	Passed	34	20
J-20	True	True	1,500.00	2,475.19	1,500.00	2,475.19	Passed	33	20
J-21	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	45	35
J-22	True	True	1,500.00	2,844.76	1,500.00	2,844.76	Passed	38	20
J-23	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	25
J-24	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	45	36
J-25	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	29
J-26	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	28
J-27	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	30
J-28	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	45	37
J-29	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	49	48
J-30	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	46	40
J-31	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	46	39
J-32	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	30
J-33	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	22
J-34	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	25
J-35	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	47	44
J-36	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	49	49
J-37	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	52	50
J-38	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	49	45
J-41	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	48	43
J-42	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	48	42
J-43	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	49	46
J-44	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	48	42
J-45	True	True	1,500.00	3,499.99	1,558.24	3,558.23	Passed	38	21
J-46	True	True	1,500.00	2,586.62	1,500.00	2,586.62	Passed	34	21
J-48	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	52	50
J-50	True	True	1,500.00	3,143.03	1,500.00	3,143.03	Passed	39	20
J-51	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	52	50
J-52	True	True	1,500.00	2,522.15	1,500.00	2,522.15	Passed	36	20
J-53	True	True	1,500.00	2,996.18	1,500.00	2,996.18	Passed	39	20
J-54	True	True	1,500.00	2,343.17	1,500.00	2,343.17	Passed	35	20
J-55	True	True	1,500.00	2,678.95	1,500.00	2,678.95	Passed	38	20
J-57	True	True	1,500.00	1,617.45	1,500.00	1,617.45	Passed	24	20
J-58	True	True	1,500.00	1,552.50	1,578.49	1,630.99	Passed	22	20
J-59	True	True	1,500.00	1,758.53	1,500.00	1,758.53	Passed	20	27
J-60	True	True	1,500.00	1,683.82	1,500.00	1,683.82	Passed	25	20
J-61	True	True	1,500.00	3,294.15	1,500.00	3,294.15	Passed	41	20
J-62	True	True	1,500.00	2,853.14	1,500.00	2,853.14	Passed	39	20
J-63	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	23
J-64	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	21
J-65	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	24
J-66	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	45	37
J-67	True	True	1,500.00	2,824.72	1,500.00	2,824.72	Passed	39	20
J-68	True	True	1,500.00	2,700.46	1,500.00	2,700.46	Passed	38	20
J-69	True	True	1,500.00	1,885.74	1,500.00	1,885.74	Passed	31	26
J-70	True	True	1,500.00	2,396.19	1,500.00	2,396.19	Passed	33	21
J-71	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	44	31
J-72	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	44	34
J-73	True	True	1,500.00	2,411.61	1,500.00	2,411.61	Passed	35	20
J-74	True	True	1,500.00	1,956.98	1,500.00	1,956.98	Passed	30	20
J-75	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	22
J-76	True	True	1,500.00	2,259.47	1,500.00	2,259.47	Passed	34	20
J-81	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	31
J-82	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	31
J-83	True	True	1,500.00	2,217.87	1,500.00	2,217.87	Passed	20	34
J-84	True	True	1,500.00	3,084.35	1,500.00	3,084.35	Passed	40	20
J-87	True	True	1,500.00	3,050.02	1,500.00	3,050.02	Passed	39	20
J-89	True	True	1,500.00	3,429.63	1,500.00	3,429.63	Passed	42	20
J-90	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	47	42
J-91	True	True	1,500.00	2,793.11	1,500.00	2,793.11	Passed	20	38
J-92	True	True	1,500.00	2,060.40	1,500.00	2,060.40	Passed	32	20
J-95	True	True	1,500.00	3,333.68	1,500.00	3,333.68	Passed	41	20
J-96	True	True	1,500.00	2,245.73	1,500.00	2,245.73	Passed	34	20
J-99	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	45	26
J-111	True	True	1,500.00	1,694.97	1,614.49	1,809.46	Passed	24	20
J-115	True	True	1,500.00	2,859.48	1,500.00	2,859.48	Passed	38	20

Fire Flow Node FlexTable: Fire Flow Results Table

Label	Is Fire Flow Run Balanced?	Satisfies Fire Flow Constraints?	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Fire Flow Status	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Residual) (psi)
J-116	True	True	1,500.00	2,214.62	1,500.00	2,214.62	Passed	33	20
J-123	True	True	1,500.00	2,280.00	1,500.00	2,280.00	Passed	35	20
J-126	True	True	1,500.00	1,890.03	1,500.00	1,890.03	Passed	30	20
J-127	True	True	1,500.00	2,621.77	1,500.00	2,621.77	Passed	38	20
J-128	True	True	1,500.00	3,294.28	1,500.00	3,294.28	Passed	40	20
J-129	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	22
J-130	True	True	1,500.00	2,048.65	1,500.00	2,048.65	Passed	32	20
J-133	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	30
J-134	True	True	1,500.00	2,885.81	1,500.00	2,885.81	Passed	38	20
J-137	True	True	1,500.00	1,704.83	1,605.49	1,810.32	Passed	26	20
J-138	True	True	1,500.00	1,601.84	1,500.00	1,601.84	Passed	22	20
J-140	True	True	1,500.00	2,763.67	1,500.00	2,763.67	Passed	39	20
J-141	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	48	43
J-142	True	True	1,500.00	2,382.06	1,500.00	2,382.06	Passed	37	20
J-145	True	True	1,500.00	2,611.16	1,500.00	2,611.16	Passed	36	24
J-146	True	True	1,500.00	3,499.99	1,751.74	3,751.73	Passed	45	32
J-147	True	True	1,500.00	3,155.22	1,500.00	3,155.22	Passed	40	20
J-148	True	True	1,500.00	3,095.48	1,500.00	3,095.48	Passed	40	20
J-149	True	True	1,500.00	1,730.61	1,500.00	1,730.61	Passed	26	20
J-151	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	46	39
J-152	True	True	1,500.00	2,038.99	1,500.00	2,038.99	Passed	32	20
J-153	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	40	22
J-154	True	True	1,500.00	1,757.42	1,500.00	1,757.42	Passed	26	20
J-155	True	True	1,500.00	2,157.13	1,500.00	2,157.13	Passed	33	20
J-156	True	True	1,500.00	2,238.80	1,500.00	2,238.80	Passed	33	20
J-157	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	46	38
J-158	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	25
J-159	True	True	1,500.00	1,593.93	1,500.00	1,593.93	Passed	23	20
J-161	True	True	1,500.00	2,740.50	1,500.00	2,740.50	Passed	38	20
J-162	True	True	1,500.00	2,751.09	1,500.00	2,751.09	Passed	38	20
J-165	True	True	1,500.00	1,825.53	1,500.00	1,825.53	Passed	28	20
J-167	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	24
J-168	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	33
J-169	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	45	36
J-170	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	45	38
J-171	True	True	1,500.00	2,597.71	1,500.00	2,597.71	Passed	36	20
J-172	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	34
J-173	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	51	47
J-174	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	48	44
J-175	True	True	1,500.00	2,570.46	1,552.24	2,622.70	Passed	36	20
J-176	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	34
J-179	True	True	1,500.00	3,316.63	1,500.00	3,316.63	Passed	41	20
J-180	True	True	1,500.00	3,257.92	1,500.00	3,257.92	Passed	40	20
J-181	True	True	1,500.00	2,248.07	1,621.24	2,369.31	Passed	34	20
J-184	True	True	1,500.00	2,385.95	1,500.00	2,385.95	Passed	35	20
J-185	True	True	1,500.00	1,774.36	1,500.00	1,774.36	Passed	27	20
J-186	True	True	1,500.00	2,126.81	1,500.00	2,126.81	Passed	34	20
J-188	True	True	1,500.00	3,451.76	1,500.00	3,451.76	Passed	40	20
J-189	True	True	1,500.00	2,928.38	1,500.00	2,928.38	Passed	38	20
J-190	True	True	1,500.00	2,752.77	1,500.00	2,752.77	Passed	38	20
J-191	True	True	1,500.00	2,598.49	1,500.00	2,598.49	Passed	37	20
J-192	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	45	37
J-193	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	45	37
J-194	True	True	1,500.00	2,810.08	1,500.00	2,810.08	Passed	40	20
J-196	True	True	1,500.00	2,095.35	1,500.00	2,095.35	Passed	33	20
J-198	True	True	1,500.00	1,687.64	1,500.00	1,687.64	Passed	24	20
J-199	True	True	1,500.00	1,694.09	1,500.00	1,694.09	Passed	24	20
J-200	True	True	1,500.00	1,739.36	1,500.00	1,739.36	Passed	24	20
J-201	True	True	1,500.00	1,740.32	1,500.00	1,740.32	Passed	25	20
J-202	True	True	1,500.00	2,929.72	1,500.00	2,929.72	Passed	38	20
J-203	True	True	1,500.00	2,476.31	1,500.00	2,476.31	Passed	35	20
J-204	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	44	32
J-205	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	25
J-206	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	33
J-207	True	True	1,500.00	2,899.56	1,500.00	2,899.56	Passed	38	20
J-208	True	True	1,500.00	2,543.46	1,500.00	2,543.46	Passed	36	20
J-209	True	True	1,500.00	1,526.21	1,500.00	1,526.21	Passed	21	20
J-210	True	True	1,500.00	1,963.14	1,500.00	1,963.14	Passed	31	20
J-214	True	True	1,500.00	1,783.49	1,500.00	1,783.49	Passed	25	20
J-216	True	True	1,500.00	1,714.94	1,500.00	1,714.94	Passed	26	20
J-217	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	26
J-218	True	True	1,500.00	2,423.39	1,500.00	2,423.39	Passed	35	20
J-219	True	True	1,500.00	2,177.53	1,552.24	2,229.77	Passed	30	20
J-221	True	True	1,500.00	2,430.77	1,500.00	2,430.77	Passed	35	20
J-222	True	True	1,500.00	2,686.19	1,500.00	2,686.19	Passed	35	22
J-225	True	True	1,500.00	1,760.41	1,500.00	1,760.41	Passed	27	20
J-228	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	39	20
J-229	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	34
J-230	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	44	31
J-232	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	47	39
J-234	True	True	1,500.00	1,628.69	1,500.00	1,628.69	Passed	23	20
J-235	True	True	1,500.00	1,643.24	1,500.00	1,643.24	Passed	23	20
J-236	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	44	30

Fire Flow Node FlexTable: Fire Flow Results Table

Label	Is Fire Flow Run Balanced?	Satisfies Fire Flow Constraints?	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Fire Flow Status	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Residual) (psi)
J-237	True	True	1,500.00	1,832.78	1,500.00	1,832.78	Passed	26	20
J-239	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	27
J-240	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	45	33
J-241	True	True	1,500.00	3,393.65	1,500.00	3,393.65	Passed	41	20
J-243	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	44	34
J-244	True	True	1,500.00	3,260.84	1,500.00	3,260.84	Passed	42	20
J-246	True	True	1,500.00	1,605.39	1,500.00	1,605.39	Passed	23	21
J-247	True	True	1,500.00	2,196.32	1,500.00	2,196.32	Passed	33	20
J-248	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	39	22
J-249	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	45	36
J-251	True	True	1,500.00	1,698.21	1,500.00	1,698.21	Passed	25	20
J-253	True	True	1,500.00	3,121.42	1,500.00	3,121.42	Passed	20	39
J-254	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	23
J-260	True	True	1,500.00	2,530.89	1,500.00	2,530.89	Passed	38	20
J-261	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	21
J-262	True	True	1,500.00	2,583.70	1,500.00	2,583.70	Passed	36	20
J-263	True	True	1,500.00	2,375.09	1,500.00	2,375.09	Passed	35	20
J-268	True	True	1,500.00	2,570.68	1,500.00	2,570.68	Passed	34	20
J-269	True	True	1,500.00	2,160.51	1,500.00	2,160.51	Passed	31	20
J-270	True	True	1,500.00	2,653.99	1,500.00	2,653.99	Passed	38	20
J-271	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	45	32
J-274	True	True	1,500.00	1,853.59	1,500.00	1,853.59	Passed	20	29
J-275	True	True	1,500.00	3,320.39	1,500.00	3,320.39	Passed	40	20
J-276	True	True	1,500.00	3,204.29	1,500.00	3,204.29	Passed	40	20
J-277	True	True	1,500.00	1,758.37	1,500.00	1,758.37	Passed	26	22
J-278	True	True	1,500.00	1,536.60	1,500.00	1,536.60	Passed	21	20
J-279	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	34
J-281	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	23
J-282	True	True	1,500.00	2,212.22	1,500.00	2,212.22	Passed	33	20
J-287	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	46	33
J-288	True	True	1,500.00	1,527.65	1,500.00	1,527.65	Passed	21	20
J-289	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	34
J-294	True	True	1,500.00	2,617.43	1,500.00	2,617.43	Passed	33	20
J-296	True	True	1,500.00	2,222.08	1,500.00	2,222.08	Passed	30	20
J-297	True	True	1,500.00	2,853.62	1,500.00	2,853.62	Passed	38	20
J-299	True	True	1,500.00	2,377.77	1,500.00	2,377.77	Passed	36	20
J-300	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	46	40
J-301	True	True	1,500.00	2,717.82	1,500.00	2,717.82	Passed	37	20
J-304	True	True	1,500.00	1,588.58	1,500.00	1,588.58	Passed	22	20
J-305	True	True	1,500.00	2,112.43	1,500.00	2,112.43	Passed	32	25
J-307	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	26
J-308	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	44	35
J-310	True	True	1,500.00	3,275.46	1,500.00	3,275.46	Passed	40	20
J-311	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	53	51
J-314	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	25
J-315	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	31
J-316	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	33
J-317	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	33
J-318	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	33
J-319	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	40	24
J-320	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	34
J-321	True	True	1,500.00	1,618.76	1,500.00	1,618.76	Passed	23	21
J-323	True	True	1,500.00	3,499.99	1,559.74	3,559.73	Passed	46	37
J-327	True	True	1,500.00	1,758.95	1,634.74	1,893.69	Passed	27	20
J-331	True	True	1,500.00	1,808.80	1,500.00	1,808.80	Passed	29	25
J-334	True	True	1,500.00	2,596.44	1,500.00	2,596.44	Passed	35	22
J-335	True	True	1,500.00	2,950.15	1,500.00	2,950.15	Passed	38	20
J-336	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	45	37
J-338	True	True	1,500.00	1,937.70	1,500.00	1,937.70	Passed	27	20
J-340	True	True	1,500.00	3,499.99	1,627.24	3,627.23	Passed	41	20
J-341	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	44	26
J-342	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	44	36
J-343	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	34
J-344	True	True	1,500.00	2,522.95	1,500.00	2,522.95	Passed	33	20
J-345	True	True	1,500.00	2,060.72	1,500.00	2,060.72	Passed	32	20
J-346	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	21
J-347	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	45	36
J-348	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	52	51
J-349	True	True	1,500.00	2,331.26	1,500.00	2,331.26	Passed	32	20
J-351	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	28
J-352	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	44	25
J-353	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	25
J-355	True	True	1,500.00	2,580.14	1,751.74	2,831.88	Passed	36	20
J-357	True	True	1,500.00	2,628.60	1,500.00	2,628.60	Passed	37	20
J-359	True	True	1,500.00	3,162.56	1,500.00	3,162.56	Passed	39	20
J-360	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	33
J-361	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	47	40
J-362	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	40	24
J-363	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	48	41
J-364	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	26
J-365	True	True	1,500.00	2,332.43	1,500.00	2,332.43	Passed	31	20
J-366	True	True	1,500.00	3,373.77	1,500.00	3,373.77	Passed	39	21
J-367	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	29

Fire Flow Node FlexTable: Fire Flow Results Table

Label	Is Fire Flow Run Balanced?	Satisfies Fire Flow Constraints?	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Fire Flow Status	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Residual) (psi)
J-369	True	True	1,500.00	2,882.36	1,500.00	2,882.36	Passed	38	20
J-370	True	True	1,500.00	2,597.54	1,500.00	2,597.54	Passed	37	20
J-371	True	True	1,500.00	2,537.75	1,500.00	2,537.75	Passed	36	20
J-372	True	True	1,500.00	1,840.61	1,500.00	1,840.61	Passed	26	20
J-373	True	True	1,500.00	1,720.60	1,500.00	1,720.60	Passed	25	20
J-375	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	28
J-378	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	45	31
J-379	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	45	29
J-380	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	25
J-381	True	True	1,500.00	1,768.79	1,500.00	1,768.79	Passed	20	20
J-382	True	True	1,500.00	1,745.84	1,500.00	1,745.84	Passed	25	20
J-383	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	34
J-384	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	31
J-386	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	29
J-387	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	28
J-388	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	24
J-389	True	True	1,500.00	2,579.21	1,500.00	2,579.21	Passed	33	20
J-390	True	True	1,500.00	2,560.62	1,500.00	2,560.62	Passed	33	20
J-391	True	True	1,500.00	1,816.40	1,500.00	1,816.40	Passed	26	20
J-392	True	True	1,500.00	1,677.75	1,500.00	1,677.75	Passed	24	20
J-393	True	True	1,500.00	1,780.44	1,500.00	1,780.44	Passed	25	20
J-394	True	True	1,500.00	2,808.11	1,500.00	2,808.11	Passed	37	20
J-395	True	True	1,500.00	2,804.06	1,500.00	2,804.06	Passed	37	20
J-396	True	True	1,500.00	3,077.62	1,500.00	3,077.62	Passed	39	20
J-397	True	True	1,500.00	3,081.98	1,500.00	3,081.98	Passed	39	20
J-398	True	True	1,500.00	3,453.72	1,500.00	3,453.72	Passed	40	20
J-399	True	True	1,500.00	3,386.36	1,500.00	3,386.36	Passed	40	20
J-404	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	25
J-405	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	24
J-406	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	44	27
J-410	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	21
J-411	True	True	1,500.00	3,083.69	1,532.74	3,116.43	Passed	41	20
J-412	True	True	1,500.00	3,141.65	1,500.00	3,141.65	Passed	40	20
J-415	True	True	1,500.00	2,142.01	1,500.00	2,142.01	Passed	33	20
J-416	True	True	1,500.00	2,229.63	1,500.00	2,229.63	Passed	20	34
J-417	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	46	34
J-418	True	True	1,500.00	3,499.99	1,648.24	3,648.23	Passed	46	36
J-419	True	True	1,500.00	1,602.71	1,500.00	1,602.71	Passed	23	20
J-420	True	True	1,500.00	1,644.04	1,500.00	1,644.04	Passed	24	20
J-421	True	True	1,500.00	1,773.68	1,500.00	1,773.68	Passed	20	25
J-422	True	True	1,500.00	1,754.15	1,500.00	1,754.15	Passed	25	20
J-423	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	31
J-424	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	24
J-425	True	True	1,500.00	2,901.48	1,500.00	2,901.48	Passed	38	20
J-428	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	24
J-429	True	True	1,500.00	1,769.91	1,500.00	1,769.91	Passed	26	20
J-430	True	True	1,500.00	2,365.68	1,500.00	2,365.68	Passed	32	20
J-431	True	True	1,500.00	1,835.72	1,500.00	1,835.72	Passed	27	20
J-432	True	True	1,500.00	2,503.07	1,500.00	2,503.07	Passed	33	20
J-433	True	True	1,500.00	1,828.34	1,500.00	1,828.34	Passed	20	28
J-438	True	True	1,500.00	2,340.82	1,500.00	2,340.82	Passed	35	20
J-439	True	True	1,500.00	2,802.37	1,500.00	2,802.37	Passed	37	20
J-440	True	True	1,500.00	2,921.96	1,500.00	2,921.96	Passed	38	20
J-442	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	45	33
J-443	True	True	1,500.00	3,262.70	1,500.00	3,262.70	Passed	42	20
J-444	True	True	1,500.00	3,440.63	1,500.00	3,440.63	Passed	42	20
J-445	True	True	1,500.00	2,682.24	1,500.00	2,682.24	Passed	35	21
J-446	True	True	1,500.00	2,520.38	1,500.00	2,520.38	Passed	20	33
J-447	True	True	1,500.00	3,394.37	1,500.00	3,394.37	Passed	40	20
J-448	True	True	1,500.00	3,480.32	1,500.00	3,480.32	Passed	40	20
J-449	True	True	1,500.00	2,556.79	1,500.00	2,556.79	Passed	36	20
J-450	True	True	1,500.00	2,548.37	1,500.00	2,548.37	Passed	36	20
J-451	True	True	1,500.00	1,690.95	1,500.00	1,690.95	Passed	20	24
J-452	True	True	1,500.00	1,715.57	1,500.00	1,715.57	Passed	24	20
J-454	True	True	1,500.00	1,595.50	1,500.00	1,595.50	Passed	20	22
J-455	True	True	1,500.00	2,885.31	1,500.00	2,885.31	Passed	39	20
J-456	True	True	1,500.00	2,505.66	1,500.00	2,505.66	Passed	37	20
J-457	True	True	1,500.00	1,633.81	1,500.00	1,633.81	Passed	20	23
J-458	True	True	1,500.00	2,785.24	1,500.00	2,785.24	Passed	38	20
J-459	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	31
J-460	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	25
J-461	True	True	1,500.00	1,651.39	1,500.00	1,651.39	Passed	23	20
J-462	True	True	1,500.00	3,418.12	1,500.00	3,418.12	Passed	40	20
J-463	True	True	1,500.00	2,406.67	1,500.00	2,406.67	Passed	33	21
J-464	True	True	1,500.00	2,347.14	1,589.74	2,436.88	Passed	20	32
J-465	True	True	1,500.00	2,369.65	1,589.74	2,459.39	Passed	32	20
J-467	True	True	1,500.00	2,783.67	1,500.00	2,783.67	Passed	37	20
J-468	True	True	1,500.00	2,745.01	1,500.00	2,745.01	Passed	37	20
J-470	True	True	1,500.00	2,403.18	1,500.00	2,403.18	Passed	32	20
J-471	True	True	1,500.00	2,281.48	1,500.00	2,281.48	Passed	33	20
J-472	True	True	1,500.00	2,810.15	1,664.74	2,974.89	Passed	36	20
J-473	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	27
J-474	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	23

Fire Flow Node FlexTable: Fire Flow Results Table

Label	Is Fire Flow Run Balanced?	Satisfies Fire Flow Constraints?	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Fire Flow Status	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Residual) (psi)
J-475	True	True	1,500.00	2,276.92	1,500.00	2,276.92	Passed	34	20
J-476	True	True	1,500.00	2,306.62	1,500.00	2,306.62	Passed	35	20
J-477	True	True	1,500.00	3,424.51	1,500.00	3,424.51	Passed	40	20
J-478	True	True	1,500.00	3,464.37	1,500.00	3,464.37	Passed	40	20
J-479	True	True	1,500.00	2,561.91	1,500.00	2,561.91	Passed	37	21
J-480	True	True	1,500.00	2,392.54	1,500.00	2,392.54	Passed	35	20
J-481	True	True	1,500.00	2,211.19	1,500.00	2,211.19	Passed	30	20
J-482	True	True	1,500.00	2,319.89	1,500.00	2,319.89	Passed	31	20
J-483	True	True	1,500.00	2,074.45	1,500.00	2,074.45	Passed	32	20
J-484	True	True	1,500.00	2,248.67	1,500.00	2,248.67	Passed	34	20
J-489	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	48	44
J-490	True	True	1,500.00	2,345.85	1,500.00	2,345.85	Passed	32	20
J-491	True	True	1,500.00	2,239.88	1,500.00	2,239.88	Passed	32	20
J-494	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	25
J-495	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	22
J-496	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	44	36
J-502	True	True	1,500.00	1,519.33	2,026.24	2,045.57	Passed	20	20
J-503	True	True	1,500.00	2,845.06	1,500.00	2,845.06	Passed	39	20
J-504	True	True	1,500.00	1,702.03	1,500.00	1,702.03	Passed	24	20
J-505	True	True	1,500.00	1,844.00	1,500.00	1,844.00	Passed	26	20
J-508	True	True	1,500.00	2,083.88	1,500.00	2,083.88	Passed	32	20
J-509	True	True	1,500.00	1,950.84	1,500.00	1,950.84	Passed	30	20
J-510	True	True	1,500.00	2,967.71	1,500.00	2,967.71	Passed	38	20
J-511	True	True	1,500.00	2,904.85	1,500.00	2,904.85	Passed	38	20
J-512	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	34
J-513	True	True	1,500.00	2,861.60	1,500.00	2,861.60	Passed	38	20
J-514	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	23
J-515	True	True	1,500.00	3,241.92	1,500.00	3,241.92	Passed	40	20
J-516	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	45	35
J-517	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	47	40
J-518	True	True	1,500.00	1,665.05	1,500.00	1,665.05	Passed	24	20
J-519	True	True	1,500.00	2,537.34	1,500.00	2,537.34	Passed	33	20
J-520	True	True	1,500.00	2,598.50	1,500.00	2,598.50	Passed	37	21
J-521	True	True	1,500.00	2,481.24	1,500.00	2,481.24	Passed	36	20
J-523	True	True	1,500.00	2,586.20	1,500.00	2,586.20	Passed	34	21
J-525	True	True	1,500.00	1,953.86	1,500.00	1,953.86	Passed	28	20
J-526	True	True	1,500.00	1,874.36	1,500.00	1,874.36	Passed	27	20
J-527	True	True	1,500.00	2,589.65	1,500.00	2,589.65	Passed	37	20
J-529	True	True	1,500.00	1,981.16	1,591.24	2,072.40	Passed	29	20
J-530	True	True	1,500.00	2,261.51	1,500.00	2,261.51	Passed	32	20
J-531	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	30
J-532	True	True	1,500.00	2,636.57	1,640.74	2,777.31	Passed	36	20
J-533	True	True	1,500.00	2,901.68	1,500.00	2,901.68	Passed	38	20
J-535	True	True	1,500.00	1,930.81	1,500.00	1,930.81	Passed	27	20
J-536	True	True	1,500.00	2,038.86	1,500.00	2,038.86	Passed	28	20
J-537	True	True	1,500.00	1,555.14	1,500.00	1,555.14	Passed	22	20
J-538	True	True	1,500.00	1,647.53	1,500.00	1,647.53	Passed	23	20
J-539	True	True	1,500.00	1,570.89	1,721.74	1,792.63	Passed	22	20
J-540	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	20
J-542	True	True	1,500.00	2,220.87	1,500.00	2,220.87	Passed	30	20
J-543	True	True	1,500.00	1,830.68	1,500.00	1,830.68	Passed	26	20
J-544	True	True	1,500.00	2,276.07	1,500.00	2,276.07	Passed	32	20
J-545	True	True	1,500.00	2,396.11	1,500.00	2,396.11	Passed	33	20
J-546	True	True	1,500.00	2,201.29	1,500.00	2,201.29	Passed	30	20
J-547	True	True	1,500.00	2,100.09	1,751.74	2,351.83	Passed	29	20
J-548	True	True	1,500.00	1,540.20	1,500.00	1,540.20	Passed	21	20
J-549	True	True	1,500.00	1,626.42	1,500.00	1,626.42	Passed	22	20
J-550	True	True	1,500.00	2,994.10	1,500.00	2,994.10	Passed	38	20
J-553	True	True	1,500.00	2,029.38	1,500.00	2,029.38	Passed	28	20
J-554	True	True	1,500.00	2,053.54	1,500.00	2,053.54	Passed	28	20
J-557	True	True	1,500.00	3,258.85	1,500.00	3,258.85	Passed	40	20
J-558	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	45	38
J-559	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	22
J-561	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	39	23
J-562	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	38	20
J-563	True	True	1,500.00	3,274.48	1,500.00	3,274.48	Passed	38	20
J-564	True	True	1,500.00	3,326.85	1,500.00	3,326.85	Passed	38	20
J-565	True	True	1,500.00	3,193.68	1,500.00	3,193.68	Passed	39	20
J-566	True	True	1,500.00	3,162.66	1,500.00	3,162.66	Passed	39	20
J-567	True	True	1,500.00	1,890.30	1,500.00	1,890.30	Passed	27	20
J-568	True	True	1,500.00	1,993.69	1,500.00	1,993.69	Passed	28	20
J-571	True	True	1,500.00	1,659.80	1,500.00	1,659.80	Passed	23	20
J-572	True	True	1,500.00	1,670.59	1,500.00	1,670.59	Passed	23	20
J-577	True	True	1,500.00	1,623.06	1,500.00	1,623.06	Passed	23	20
J-578	True	True	1,500.00	2,122.96	1,500.00	2,122.96	Passed	29	20
J-579	True	True	1,500.00	2,443.41	1,500.00	2,443.41	Passed	33	20
J-580	True	True	1,500.00	2,335.76	1,500.00	2,335.76	Passed	32	20
J-581	True	True	1,500.00	1,687.45	1,500.00	1,687.45	Passed	23	20
J-582	True	True	1,500.00	1,667.81	1,500.00	1,667.81	Passed	23	20
J-583	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	45	33
J-584	True	True	1,500.00	2,718.60	1,500.00	2,718.60	Passed	37	20
J-585	True	True	1,500.00	3,072.04	1,500.00	3,072.04	Passed	38	20
J-586	True	True	1,500.00	1,987.45	1,500.00	1,987.45	Passed	29	20

Fire Flow Node FlexTable: Fire Flow Results Table

Label	Is Fire Flow Run Balanced?	Satisfies Fire Flow Constraints?	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Fire Flow Status	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Residual) (psi)
J-587	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	22
J-589	True	True	1,500.00	1,650.90	1,500.00	1,650.90	Passed	23	20
J-590	True	True	1,500.00	1,626.65	1,500.00	1,626.65	Passed	22	20
J-591	True	True	1,500.00	2,480.22	1,500.00	2,480.22	Passed	35	25
J-592	True	True	1,500.00	2,197.72	1,500.00	2,197.72	Passed	31	20
J-593	True	True	1,500.00	2,127.08	1,500.00	2,127.08	Passed	29	20
J-594	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	26
J-595	True	True	1,500.00	3,464.90	1,500.00	3,464.90	Passed	40	20
J-596	True	True	1,500.00	3,499.99	1,578.49	3,578.48	Passed	42	29
J-597	True	True	1,500.00	1,720.16	1,670.74	1,890.90	Passed	25	20
J-598	True	True	1,500.00	1,607.75	1,500.00	1,607.75	Passed	22	20
J-601	True	True	1,500.00	2,308.33	1,500.00	2,308.33	Passed	32	22
J-605	True	True	1,500.00	2,064.06	1,500.00	2,064.06	Passed	29	20
J-606	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	22
J-607	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	40	21
J-608	True	True	1,500.00	2,844.27	1,500.00	2,844.27	Passed	36	21
J-609	True	True	1,500.00	2,316.10	1,591.24	2,407.34	Passed	34	20
J-610	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	25
J-612	True	True	1,500.00	2,295.88	1,500.00	2,295.88	Passed	34	20
J-613	True	True	1,500.00	3,410.13	1,500.00	3,410.13	Passed	40	20
J-614	True	True	1,500.00	1,879.51	1,500.00	1,879.51	Passed	29	20
J-618	True	True	1,500.00	1,616.80	1,500.00	1,616.80	Passed	22	20
J-619	True	True	1,500.00	1,656.98	1,500.00	1,656.98	Passed	23	20
J-620	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	25
J-621	True	True	1,500.00	2,493.42	1,500.00	2,493.42	Passed	37	20
J-622	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	32
J-623	True	True	1,500.00	2,855.65	1,500.00	2,855.65	Passed	35	20
J-624	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	23
J-627	True	True	1,500.00	1,776.74	1,500.00	1,776.74	Passed	25	20
J-628	True	True	1,500.00	1,927.93	1,559.74	1,987.67	Passed	27	20
J-629	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	24
J-630	True	True	1,500.00	3,307.50	1,500.00	3,307.50	Passed	40	20
J-635	True	True	1,500.00	2,267.49	1,612.24	2,379.73	Passed	33	20
J-636	True	True	1,500.00	3,017.38	1,500.00	3,017.38	Passed	39	20
J-637	True	True	1,500.00	2,649.57	1,500.00	2,649.57	Passed	37	20
J-639	True	True	1,500.00	3,486.24	1,500.00	3,486.24	Passed	38	21
J-640	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	46	40
J-641	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	46	35
J-643	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	44	32
J-644	True	True	1,500.00	3,115.70	1,500.00	3,115.70	Passed	39	20
J-645	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	47	38
J-646	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	34
J-647	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	53	51
J-650	True	True	1,500.00	2,448.41	1,500.00	2,448.41	Passed	35	20
J-651	True	True	1,500.00	2,905.04	1,500.00	2,905.04	Passed	20	39
J-652	True	True	1,500.00	2,478.81	1,500.00	2,478.81	Passed	37	20
J-676	True	True	1,500.00	1,875.56	1,500.00	1,875.56	Passed	28	22
J-678	True	True	1,500.00	3,208.19	1,500.00	3,208.19	Passed	39	20
J-679	True	True	1,500.00	1,640.02	1,500.00	1,640.02	Passed	24	20
J-680	True	True	1,500.00	1,570.42	1,500.00	1,570.42	Passed	22	20
J-681	True	True	1,500.00	1,570.41	1,500.00	1,570.41	Passed	22	20
J-682	True	True	1,500.00	2,688.54	1,500.00	2,688.54	Passed	36	24
J-683	True	True	1,500.00	2,471.44	1,500.00	2,471.44	Passed	33	20
J-684	True	True	1,500.00	2,305.31	1,500.00	2,305.31	Passed	32	20
J-685	True	True	1,500.00	2,218.25	1,618.24	2,336.49	Passed	31	20
J-686	True	True	1,500.00	2,299.35	1,500.00	2,299.35	Passed	32	20
J-687	True	True	1,500.00	2,317.49	1,500.00	2,317.49	Passed	32	20
J-688	True	True	1,500.00	2,340.50	1,500.00	2,340.50	Passed	32	20
J-691	True	True	1,500.00	2,576.69	1,500.00	2,576.69	Passed	36	24
J-692	True	True	1,500.00	1,999.77	1,500.00	1,999.77	Passed	30	20
J-693	True	True	1,500.00	2,864.66	1,500.00	2,864.66	Passed	37	20
J-694	True	True	1,500.00	2,164.56	1,500.00	2,164.56	Passed	32	20
J-695	True	True	1,500.00	2,334.44	1,500.00	2,334.44	Passed	34	20
J-696	True	True	1,500.00	2,604.59	1,500.00	2,604.59	Passed	36	20
J-697	True	True	1,500.00	2,900.62	1,500.00	2,900.62	Passed	20	37
J-698	True	True	1,500.00	3,140.58	1,500.00	3,140.58	Passed	39	24
J-699	True	True	1,500.00	2,473.22	1,500.00	2,473.22	Passed	35	20
J-700	True	True	1,500.00	2,880.68	1,500.00	2,880.68	Passed	37	24
J-701	True	True	1,500.00	3,182.18	1,500.00	3,182.18	Passed	38	20
J-702	True	True	1,500.00	3,356.97	1,500.00	3,356.97	Passed	39	21
J-703	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	31
J-705	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	32
J-706	True	True	1,500.00	2,768.57	1,500.00	2,768.57	Passed	37	20
J-707	True	True	1,500.00	2,677.54	1,500.00	2,677.54	Passed	37	20
J-708	True	True	1,500.00	2,486.70	1,500.00	2,486.70	Passed	35	20
J-709	True	True	1,500.00	2,489.25	1,500.00	2,489.25	Passed	35	20
J-710	True	True	1,500.00	2,713.60	1,500.00	2,713.60	Passed	37	20
J-711	True	True	1,500.00	2,476.96	1,500.00	2,476.96	Passed	35	20
J-712	True	True	1,500.00	1,863.02	1,500.00	1,863.02	Passed	28	20
J-713	True	True	1,500.00	2,541.23	1,500.00	2,541.23	Passed	36	20
J-714	True	True	1,500.00	2,988.81	1,500.00	2,988.81	Passed	38	20
J-715	True	True	1,500.00	3,059.74	1,500.00	3,059.74	Passed	39	20
J-716	True	True	1,500.00	2,595.83	1,500.00	2,595.83	Passed	36	20

Fire Flow Node FlexTable: Fire Flow Results Table

Label	Is Fire Flow Run Balanced?	Satisfies Fire Flow Constraints?	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Fire Flow Status	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Residual) (psi)
J-717	True	True	1,500.00	1,989.57	1,500.00	1,989.57	Passed	31	20
J-718	True	True	1,500.00	1,926.97	1,500.00	1,926.97	Passed	30	20
J-719	True	True	1,500.00	1,806.90	1,500.00	1,806.90	Passed	28	20
J-720	True	True	1,500.00	3,292.04	1,500.00	3,292.04	Passed	39	20
J-721	True	True	1,500.00	3,092.22	1,500.00	3,092.22	Passed	39	20
J-722	True	True	1,500.00	3,141.12	1,621.24	3,262.36	Passed	39	20
J-723	True	True	1,500.00	3,009.40	1,500.00	3,009.40	Passed	38	20
J-724	True	True	1,500.00	3,056.47	1,500.00	3,056.47	Passed	39	20
J-725	True	True	1,500.00	2,897.43	1,500.00	2,897.43	Passed	38	20
J-726	True	True	1,500.00	2,821.45	1,586.74	2,908.19	Passed	38	20
J-727	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	20
J-728	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	25
J-729	True	True	1,500.00	3,499.99	1,582.24	3,582.23	Passed	41	22
J-730	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	29
J-731	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	44	33
J-732	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	48	44
J-733	True	True	1,500.00	2,078.37	1,500.00	2,078.37	Passed	32	20
J-734	True	True	1,500.00	2,293.52	1,500.00	2,293.52	Passed	34	20
J-735	True	True	1,500.00	3,459.28	1,500.00	3,459.28	Passed	40	20
J-736	True	True	1,500.00	3,369.45	1,500.00	3,369.45	Passed	40	20
J-737	True	True	1,500.00	2,263.21	1,500.00	2,263.21	Passed	34	20
J-738	True	True	1,500.00	1,790.78	1,500.00	1,790.78	Passed	27	20
J-739	True	True	1,500.00	1,675.10	1,500.00	1,675.10	Passed	25	20
J-740	True	True	1,500.00	1,646.97	1,500.00	1,646.97	Passed	24	20
J-741	True	True	1,500.00	3,458.51	1,500.00	3,458.51	Passed	40	20
J-742	True	True	1,500.00	3,024.96	1,500.00	3,024.96	Passed	39	20
J-743	True	True	1,500.00	3,364.45	1,500.00	3,364.45	Passed	40	20
J-744	True	True	1,500.00	2,953.99	1,500.00	2,953.99	Passed	38	20
J-745	True	True	1,500.00	3,334.53	1,500.00	3,334.53	Passed	40	20
J-746	True	True	1,500.00	2,858.11	1,500.00	2,858.11	Passed	38	20
J-747	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	26
J-748	True	True	1,500.00	2,573.75	1,500.00	2,573.75	Passed	36	20
J-749	True	True	1,500.00	2,833.16	1,500.00	2,833.16	Passed	38	20
J-751	True	True	1,500.00	1,550.59	1,500.00	1,550.59	Passed	21	20
J-752	True	True	1,500.00	1,620.83	1,500.00	1,620.83	Passed	20	23
J-753	True	True	1,500.00	1,590.25	1,500.00	1,590.25	Passed	22	20
J-754	True	True	1,500.00	1,540.02	1,500.00	1,540.02	Passed	21	20
J-755	True	True	1,500.00	1,585.88	1,500.00	1,585.88	Passed	22	20
J-756	True	True	1,500.00	1,588.38	1,500.00	1,588.38	Passed	22	20
J-757	True	True	1,500.00	1,786.26	1,500.00	1,786.26	Passed	26	20
J-758	True	True	1,500.00	2,635.44	1,500.00	2,635.44	Passed	34	21
J-759	True	True	1,500.00	1,680.66	1,500.00	1,680.66	Passed	24	20
J-760	True	True	1,500.00	1,611.40	1,500.00	1,611.40	Passed	23	20
J-761	True	True	1,500.00	1,512.05	1,500.00	1,512.05	Passed	20	20
J-762	True	True	1,500.00	1,509.20	1,500.00	1,509.20	Passed	20	20
J-766	True	True	1,500.00	1,545.06	1,500.00	1,545.06	Passed	21	20
J-767	True	True	1,500.00	1,606.63	1,500.00	1,606.63	Passed	23	20
J-768	True	True	1,500.00	1,534.91	1,500.00	1,534.91	Passed	21	20
J-769	True	True	1,500.00	1,659.65	1,500.00	1,659.65	Passed	24	20
J-774	True	True	1,500.00	1,962.19	1,500.00	1,962.19	Passed	20	28
J-784	True	True	1,500.00	2,174.51	1,500.00	2,174.51	Passed	29	20
J-785	True	True	1,500.00	2,094.39	1,500.00	2,094.39	Passed	29	20
J-786	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	44	30
J-787	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	44	30
J-788	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	44	32
J-789	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	20
J-790	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	21
J-792	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	53	51
J-793	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	52	51
J-794	True	True	1,500.00	1,607.83	1,500.00	1,607.83	Passed	20	23
J-795	True	True	1,500.00	2,923.40	1,500.00	2,923.40	Passed	38	20
J-797	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	54	51
J-798	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	51	47
J-801	True	True	1,500.00	2,790.74	1,580.74	2,871.48	Passed	37	20
J-803	True	True	1,500.00	3,499.99	1,716.49	3,716.48	Passed	47	35
J-804	True	True	1,500.00	3,203.11	1,716.49	3,419.60	Passed	39	20
J-812	True	True	1,500.00	1,852.82	1,591.24	1,944.07	Passed	28	20
J-813	True	True	1,500.00	3,499.99	1,684.24	3,684.23	Passed	40	22
J-814	True	True	1,500.00	2,345.31	1,500.00	2,345.31	Passed	34	20
J-815	True	True	1,500.00	1,659.35	1,565.74	1,725.09	Passed	20	24
J-816	True	True	1,500.00	2,208.75	1,620.49	2,329.24	Passed	33	20
J-817	True	True	1,500.00	2,207.13	1,600.24	2,307.37	Passed	33	20
J-818	True	True	1,500.00	2,125.02	1,600.24	2,225.26	Passed	32	20
J-819	True	True	1,500.00	3,150.77	1,664.74	3,315.51	Passed	39	20
J-820	True	True	1,500.00	2,345.74	1,552.24	2,397.98	Passed	35	20
J-821	True	True	1,500.00	3,499.99	1,627.24	3,627.23	Passed	48	42
J-823	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	48	44
J-1045	True	True	1,500.00	2,330.10	1,500.00	2,330.10	Passed	31	20
J-1050	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	29
J-1052	True	True	1,500.00	1,998.31	1,500.00	1,998.31	Passed	32	26
J-1059	True	True	1,500.00	3,285.25	1,500.00	3,285.25	Passed	40	21
J-1060	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	47	39

Fire Flow Node FlexTable: Fire Flow Results Table

Label	Is Fire Flow Run Balanced?	Satisfies Fire Flow Constraints?	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Fire Flow Status	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Residual) (psi)
J-14	True	False	1,500.00	1,436.72	1,500.00	1,436.72	Zone Pressure Failed	20	21
J-15	True	False	1,500.00	1,472.00	1,500.00	1,472.00	Residual Pressure and Zone Pressure Failed	20	20
J-39	True	False	1,500.00	1,082.78	1,500.00	1,082.78	Zone Pressure Failed	14	23
J-40	True	False	1,500.00	1,089.99	1,500.00	1,089.99	Zone Pressure Failed	14	23
J-49	True	False	1,500.00	944.69	1,664.74	1,109.43	Residual Pressure Failed	-10	20
J-56	True	False	1,500.00	907.13	1,500.00	907.13	Residual Pressure Failed	-6	20
J-77	True	False	1,500.00	1,365.16	1,500.00	1,365.16	Residual Pressure and Zone Pressure Failed	15	20
J-78	True	False	1,500.00	1,335.85	1,500.00	1,335.85	Residual Pressure and Zone Pressure Failed	13	20
J-79	True	False	1,500.00	948.56	1,500.00	948.56	Residual Pressure and Zone Pressure Failed	3	20
J-80	True	False	1,500.00	942.27	1,500.00	942.27	Residual Pressure and Zone Pressure Failed	3	20
J-85	True	False	1,500.00	1,003.44	1,500.00	1,003.44	Residual Pressure and Zone Pressure Failed	0	20
J-86	True	False	1,500.00	932.93	1,500.00	932.93	Residual Pressure Failed	-6	20
J-88	True	False	1,500.00	1,453.09	1,500.00	1,453.09	Residual Pressure Failed	18	20
J-93	True	False	1,500.00	1,419.85	1,500.00	1,419.85	Residual Pressure Failed	18	20
J-94	True	False	1,500.00	1,439.01	1,500.00	1,439.01	Residual Pressure Failed	18	20
J-97	True	False	1,500.00	792.08	1,500.00	792.08	Residual Pressure and Zone Pressure Failed	-15	20
J-98	True	False	1,500.00	750.48	1,500.00	750.48	Residual Pressure Failed	-22	20
J-100	True	False	1,500.00	1,404.22	1,500.00	1,404.22	Residual Pressure and Zone Pressure Failed	17	20
J-101	True	False	1,500.00	1,204.20	1,500.00	1,204.20	Residual Pressure Failed	8	20
J-102	True	False	1,500.00	855.49	1,500.00	855.49	Zone Pressure Failed	-8	20
J-103	True	False	1,500.00	806.07	1,500.00	806.07	Residual Pressure Failed	-15	20
J-104	True	False	1,500.00	552.70	1,500.00	552.70	Residual Pressure and Zone Pressure Failed	-52	20
J-105	True	False	1,500.00	518.91	1,735.24	754.15	Residual Pressure Failed	-61	20
J-106	True	False	1,500.00	1,174.75	1,500.00	1,174.75	Residual Pressure Failed	9	20

Fire Flow Node FlexTable: Fire Flow Results Table

Label	Is Fire Flow Run Balanced?	Satisfies Fire Flow Constraints?	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Fire Flow Status	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Residual) (psi)
J-107	True	False	1,500.00	1,320.96	1,614.49	1,435.45	Residual Pressure and Zone Pressure Failed	15	20
J-108	True	False	1,500.00	776.66	1,500.00	776.66	Residual Pressure and Zone Pressure Failed	-17	20
J-109	True	False	1,500.00	729.87	1,500.00	729.87	Residual Pressure Failed	-24	20
J-110	True	False	1,500.00	1,422.22	1,500.00	1,422.22	Residual Pressure Failed	18	20
J-112	True	False	1,500.00	1,230.28	1,500.00	1,230.28	Residual Pressure Failed	11	20
J-113	True	False	1,500.00	1,400.00	1,500.00	1,400.00	Residual Pressure and Zone Pressure Failed	17	20
J-114	True	False	1,500.00	976.43	1,500.00	976.43	Residual Pressure and Zone Pressure Failed	0	20
J-117	True	False	1,500.00	1,030.74	1,500.00	1,030.74	Residual Pressure and Zone Pressure Failed	0	20
J-118	True	False	1,500.00	1,048.53	1,500.00	1,048.53	Residual Pressure and Zone Pressure Failed	1	20
J-119	True	False	1,500.00	1,463.94	1,500.00	1,463.94	Residual Pressure and Zone Pressure Failed	19	20
J-120	True	False	1,500.00	1,208.33	1,500.00	1,208.33	Residual Pressure Failed	10	20
J-121	True	False	1,500.00	1,354.40	1,500.00	1,354.40	Residual Pressure and Zone Pressure Failed	16	20
J-122	True	False	1,500.00	1,138.81	1,500.00	1,138.81	Residual Pressure Failed	7	20
J-124	True	False	1,500.00	787.08	1,500.00	787.08	Residual Pressure and Zone Pressure Failed	-21	20
J-125	True	False	1,500.00	735.36	1,500.00	735.36	Residual Pressure Failed	-29	20
J-131	True	False	1,500.00	512.24	1,500.00	512.24	Residual Pressure Failed	-92	20
J-132	True	False	1,500.00	829.01	1,725.49	1,054.50	Residual Pressure Failed	-10	20
J-135	True	False	1,500.00	894.31	1,500.00	894.31	Residual Pressure and Zone Pressure Failed	-6	20
J-136	True	False	1,500.00	852.84	1,500.00	852.84	Residual Pressure and Zone Pressure Failed	-10	20
J-139	True	False	1,500.00	1,225.38	1,500.00	1,225.38	Residual Pressure Failed	11	20
J-143	True	False	1,500.00	475.63	1,500.00	475.63	Residual Pressure and Zone Pressure Failed	-86	20
J-144	True	False	1,500.00	487.50	1,500.00	487.50	Residual Pressure and Zone Pressure Failed	-80	20

Fire Flow Node FlexTable: Fire Flow Results Table

Label	Is Fire Flow Run Balanced?	Satisfies Fire Flow Constraints?	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Fire Flow Status	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Residual) (psi)
J-150	True	False	1,500.00	1,420.46	1,500.00	1,420.46	Residual Pressure Failed	17	20
J-160	True	False	1,500.00	1,436.81	1,500.00	1,436.81	Residual Pressure and Zone Pressure Failed	18	20
J-163	True	False	1,500.00	1,124.44	1,500.00	1,124.44	Residual Pressure Failed	6	20
J-164	True	False	1,500.00	1,122.96	1,500.00	1,122.96	Residual Pressure Failed	6	20
J-166	True	False	1,500.00	1,268.08	1,605.49	1,373.58	Residual Pressure Failed	11	20
J-177	True	False	1,500.00	1,068.03	1,500.00	1,068.03	Residual Pressure and Zone Pressure Failed	-1	20
J-178	True	False	1,500.00	1,223.29	1,500.00	1,223.29	Residual Pressure and Zone Pressure Failed	9	20
J-182	True	False	1,500.00	1,369.90	1,500.00	1,369.90	Zone Pressure Failed	18	21
J-183	True	False	1,500.00	776.72	1,712.74	989.46	Residual Pressure Failed	-18	20
J-187	True	False	1,500.00	1,257.45	1,500.00	1,257.45	Residual Pressure Failed	8	20
J-195	True	False	1,500.00	1,472.57	1,500.00	1,472.57	Residual Pressure Failed	19	20
J-197	True	False	1,500.00	1,318.27	1,500.00	1,318.27	Residual Pressure Failed	12	20
J-211	True	False	1,500.00	1,259.59	1,500.00	1,259.59	Residual Pressure Failed	9	20
J-212	True	False	1,500.00	1,402.81	1,500.00	1,402.81	Zone Pressure Failed	17	20
J-213	True	False	1,500.00	1,433.36	1,500.00	1,433.36	Residual Pressure and Zone Pressure Failed	18	20
J-215	True	False	1,500.00	1,270.98	1,500.00	1,270.98	Residual Pressure and Zone Pressure Failed	14	20
J-220	True	False	1,500.00	1,464.90	1,500.00	1,464.90	Residual Pressure and Zone Pressure Failed	19	20
J-223	True	False	1,500.00	939.98	1,500.00	939.98	Residual Pressure and Zone Pressure Failed	-4	20
J-224	True	False	1,500.00	733.55	1,500.00	733.55	Residual Pressure Failed	-30	20
J-226	True	False	1,500.00	1,488.81	1,500.00	1,488.81	Residual Pressure Failed	20	20
J-227	True	False	1,500.00	1,215.71	1,500.00	1,215.71	Residual Pressure Failed	8	20
J-231	True	False	1,500.00	1,387.28	1,500.00	1,387.28	Residual Pressure Failed	15	20
J-233	True	False	1,500.00	1,066.97	1,500.00	1,066.97	Residual Pressure Failed	-5	20
J-238	True	False	1,500.00	933.08	1,500.00	933.08	Residual Pressure Failed	-8	20
J-242	True	False	1,500.00	1,129.63	1,500.00	1,129.63	Residual Pressure Failed	1	20

Fire Flow Node FlexTable: Fire Flow Results Table

Label	Is Fire Flow Run Balanced?	Satisfies Fire Flow Constraints?	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Fire Flow Status	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Residual) (psi)
J-245	True	False	1,500.00	1,096.23	1,637.74	1,233.97	Residual Pressure Failed	0	20
J-250	True	False	1,500.00	1,245.80	1,500.00	1,245.80	Residual Pressure Failed	9	20
J-252	True	False	1,500.00	957.11	1,500.00	957.11	Residual Pressure Failed	-10	20
J-257	True	False	1,500.00	1,250.74	1,500.00	1,250.74	Residual Pressure and Zone Pressure Failed	13	20
J-258	True	False	1,500.00	772.97	1,500.00	772.97	Residual Pressure Failed	-23	20
J-259	True	False	1,500.00	1,338.81	1,500.00	1,338.81	Residual Pressure and Zone Pressure Failed	16	20
J-264	True	False	1,500.00	1,331.08	1,500.00	1,331.08	Residual Pressure Failed	15	20
J-265	True	False	1,500.00	1,311.75	1,500.00	1,311.75	Residual Pressure and Zone Pressure Failed	15	20
J-266	True	False	1,500.00	797.65	1,500.00	797.65	Residual Pressure Failed	-22	20
J-267	True	False	1,500.00	1,490.37	1,500.00	1,490.37	Residual Pressure and Zone Pressure Failed	20	20
J-272	True	False	1,500.00	1,243.64	1,648.24	1,391.88	Residual Pressure Failed	11	20
J-273	True	False	1,500.00	975.39	1,691.74	1,167.13	Residual Pressure Failed	-8	20
J-280	True	False	1,500.00	998.62	1,500.00	998.62	Residual Pressure Failed	-10	20
J-283	True	False	1,500.00	1,095.94	1,500.00	1,095.94	Zone Pressure Failed	10	22
J-284	True	False	1,500.00	1,023.69	1,500.00	1,023.69	Residual Pressure Failed	1	20
J-285	True	False	1,500.00	1,274.31	1,500.00	1,274.31	Residual Pressure Failed	14	20
J-286	True	False	1,500.00	1,380.85	1,500.00	1,380.85	Zone Pressure Failed	22	24
J-290	True	False	1,500.00	1,124.65	1,500.00	1,124.65	Residual Pressure Failed	6	20
J-291	True	False	1,500.00	1,168.76	1,500.00	1,168.76	Residual Pressure Failed	9	20
J-292	True	False	1,500.00	1,062.32	1,500.00	1,062.32	Residual Pressure Failed	-3	20
J-293	True	False	1,500.00	1,030.59	1,500.00	1,030.59	Residual Pressure Failed	-6	20
J-295	True	False	1,500.00	702.83	1,735.24	938.07	Residual Pressure Failed	-27	20
J-298	True	False	1,500.00	932.07	1,620.49	1,052.56	Residual Pressure Failed	-13	20
J-302	True	False	1,500.00	1,397.66	1,702.24	1,599.90	Residual Pressure Failed	17	20
J-303	True	False	1,500.00	1,355.54	1,500.00	1,355.54	Residual Pressure Failed	16	20
J-306	True	False	1,500.00	805.81	1,594.24	900.05	Residual Pressure Failed	-22	20
J-308	True	False	1,500.00	1,462.93	1,500.00	1,462.93	Residual Pressure Failed	19	20

Fire Flow Node FlexTable: Fire Flow Results Table

Label	Is Fire Flow Run Balanced?	Satisfies Fire Flow Constraints?	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Fire Flow Status	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Residual) (psi)
J-312	True	False	1,500.00	455.16	1,500.00	455.16	Residual Pressure Failed	-98	20
J-313	True	False	1,500.00	1,152.57	1,500.00	1,152.57	Zone Pressure Failed	11	21
J-322	True	False	1,500.00	874.33	1,500.00	874.33	Residual Pressure Failed	-15	20
J-325	True	False	1,500.00	988.56	1,500.00	988.56	Zone Pressure Failed	10	22
J-326	True	False	1,500.00	378.00	1,781.74	659.74	Residual Pressure Failed	-80	20
J-328	True	False	1,500.00	899.83	1,500.00	899.83	Residual Pressure Failed	-18	20
J-329	True	False	1,500.00	1,325.22	1,500.00	1,325.22	Zone Pressure Failed	21	24
J-330	True	False	1,500.00	1,124.75	1,500.00	1,124.75	Residual Pressure and Zone Pressure Failed	8	20
J-332	True	False	1,500.00	1,104.01	1,500.00	1,104.01	Residual Pressure and Zone Pressure Failed	7	20
J-333	True	False	1,500.00	1,227.21	1,500.00	1,227.21	Residual Pressure Failed	12	20
J-339	True	False	1,500.00	1,126.00	1,500.00	1,126.00	Residual Pressure Failed	0	20
J-350	True	False	1,500.00	1,007.22	1,500.00	1,007.22	Residual Pressure Failed	-2	20
J-354	True	False	1,500.00	953.17	1,500.00	953.17	Residual Pressure Failed	-14	20
J-358	True	False	1,500.00	688.00	1,500.00	688.00	Residual Pressure Failed	-69	20
J-368	True	False	1,500.00	1,082.36	1,500.00	1,082.36	Residual Pressure Failed	-1	20
J-374	True	False	1,500.00	1,431.28	1,500.00	1,431.28	Zone Pressure Failed	20	21
J-400	True	False	1,500.00	1,115.91	1,500.00	1,115.91	Residual Pressure and Zone Pressure Failed	-4	20
J-401	True	False	1,500.00	1,106.71	1,500.00	1,106.71	Residual Pressure Failed	-5	20
J-403	True	False	1,500.00	951.14	1,500.00	951.14	Residual Pressure and Zone Pressure Failed	4	20
J-408	True	False	1,500.00	1,435.85	1,500.00	1,435.85	Residual Pressure and Zone Pressure Failed	18	20
J-409	True	False	1,500.00	1,437.85	1,500.00	1,437.85	Residual Pressure and Zone Pressure Failed	18	20
J-413	True	False	1,500.00	1,442.96	1,500.00	1,442.96	Residual Pressure and Zone Pressure Failed	18	20
J-414	True	False	1,500.00	1,439.67	1,500.00	1,439.67	Residual Pressure and Zone Pressure Failed	18	20
J-426	True	False	1,500.00	1,473.89	1,500.00	1,473.89	Residual Pressure and Zone Pressure Failed	19	20

Fire Flow Node FlexTable: Fire Flow Results Table

Label	Is Fire Flow Run Balanced?	Satisfies Fire Flow Constraints?	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Fire Flow Status	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Residual) (psi)
J-427	True	False	1,500.00	1,429.57	1,500.00	1,429.57	Residual Pressure Failed	18	20
J-434	True	False	1,500.00	1,336.07	1,500.00	1,336.07	Residual Pressure and Zone Pressure Failed	14	20
J-435	True	False	1,500.00	1,299.76	1,500.00	1,299.76	Residual Pressure Failed	12	20
J-436	True	False	1,500.00	1,469.85	1,500.00	1,469.85	Residual Pressure and Zone Pressure Failed	19	20
J-437	True	False	1,500.00	1,422.24	1,500.00	1,422.24	Residual Pressure Failed	17	20
J-441	True	False	1,500.00	1,488.33	1,500.00	1,488.33	Residual Pressure Failed	20	20
J-485	True	False	1,500.00	1,030.62	1,500.00	1,030.62	Zone Pressure Failed	12	23
J-486	True	False	1,500.00	1,051.21	1,500.00	1,051.21	Zone Pressure Failed	13	23
J-487	True	False	1,500.00	1,420.69	1,500.00	1,420.69	Residual Pressure and Zone Pressure Failed	17	20
J-488	True	False	1,500.00	1,416.20	1,500.00	1,416.20	Residual Pressure and Zone Pressure Failed	17	20
J-492	True	False	1,500.00	1,189.14	1,500.00	1,189.14	Zone Pressure Failed	16	22
J-498	True	False	1,500.00	1,337.22	1,631.74	1,468.96	Residual Pressure Failed	14	20
J-499	True	False	1,500.00	1,347.24	1,500.00	1,347.24	Residual Pressure Failed	15	20
J-500	True	False	1,500.00	1,417.85	1,500.00	1,417.85	Residual Pressure Failed	17	20
J-506	True	False	1,500.00	1,198.44	1,556.74	1,255.18	Zone Pressure Failed	15	22
J-507	True	False	1,500.00	1,215.86	1,500.00	1,215.86	Zone Pressure Failed	17	23
J-522	True	False	1,500.00	1,391.83	1,500.00	1,391.83	Residual Pressure and Zone Pressure Failed	16	20
J-528	True	False	1,500.00	1,290.30	1,500.00	1,290.30	Zone Pressure Failed	19	23
J-541	True	False	1,500.00	1,327.42	1,500.00	1,327.42	Zone Pressure Failed	21	24
J-551	True	False	1,500.00	1,335.20	1,500.00	1,335.20	Zone Pressure Failed	20	23
J-552	True	False	1,500.00	1,310.89	1,606.24	1,417.13	Zone Pressure Failed	19	23
J-560	True	False	1,500.00	1,422.29	1,500.00	1,422.29	Residual Pressure and Zone Pressure Failed	17	20
J-569	True	False	1,500.00	1,187.88	1,500.00	1,187.88	Zone Pressure Failed	16	22
J-588	True	False	1,500.00	1,174.82	1,500.00	1,174.82	Residual Pressure Failed	9	20
J-599	True	False	1,500.00	1,049.82	1,500.00	1,049.82	Residual Pressure Failed	2	20
J-602	True	False	1,500.00	1,201.19	1,500.00	1,201.19	Zone Pressure Failed	17	23

Fire Flow Node FlexTable: Fire Flow Results Table

Label	Is Fire Flow Run Balanced?	Satisfies Fire Flow Constraints?	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Fire Flow Status	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Residual) (psi)
J-603	True	False	1,500.00	1,109.53	1,500.00	1,109.53	Zone Pressure Failed	15	23
J-604	True	False	1,500.00	1,499.27	1,500.00	1,499.27	Residual Pressure Failed	20	20
J-611	True	False	1,500.00	1,322.48	1,561.24	1,383.72	Zone Pressure Failed	18	22
J-615	True	False	1,500.00	1,164.03	1,500.00	1,164.03	Zone Pressure Failed	17	23
J-616	True	False	1,500.00	548.23	1,591.24	639.47	Residual Pressure Failed	-57	20
J-625	True	False	1,500.00	1,361.52	1,500.00	1,361.52	Residual Pressure and Zone Pressure Failed	17	20
J-626	True	False	1,500.00	1,227.28	1,500.00	1,227.28	Residual Pressure and Zone Pressure Failed	13	20
J-631	True	False	1,500.00	1,417.89	1,500.00	1,417.89	Zone Pressure Failed	22	23
J-632	True	False	1,500.00	1,321.32	1,500.00	1,321.32	Zone Pressure Failed	18	22
J-633	True	False	1,500.00	1,413.99	1,597.24	1,511.23	Residual Pressure Failed	17	20
J-634	True	False	1,500.00	1,185.61	1,500.00	1,185.61	Zone Pressure Failed	16	22
J-638	True	False	1,500.00	1,177.89	1,597.24	1,275.13	Residual Pressure Failed	6	20
J-642	True	False	1,500.00	940.47	1,559.74	1,000.21	Residual Pressure and Zone Pressure Failed	3	20
J-648	True	False	1,500.00	1,452.37	1,500.00	1,452.37	Zone Pressure Failed	20	21
J-649	True	False	1,500.00	1,185.58	1,500.00	1,185.58	Zone Pressure Failed	16	23
J-653	True	False	1,500.00	1,280.75	1,500.00	1,280.75	Residual Pressure and Zone Pressure Failed	13	20
J-654	True	False	1,500.00	1,091.93	1,500.00	1,091.93	Zone Pressure Failed	14	23
J-655	True	False	1,500.00	946.26	1,500.00	946.26	Residual Pressure and Zone Pressure Failed	3	20
J-656	True	False	1,500.00	950.96	1,500.00	950.96	Residual Pressure and Zone Pressure Failed	4	20
J-657	True	False	1,500.00	953.85	1,703.74	1,157.59	Residual Pressure and Zone Pressure Failed	4	20
J-658	True	False	1,500.00	949.77	1,500.00	949.77	Residual Pressure and Zone Pressure Failed	3	20
J-659	True	False	1,500.00	949.81	1,500.00	949.81	Residual Pressure and Zone Pressure Failed	4	20
J-660	True	False	1,500.00	949.02	1,500.00	949.02	Residual Pressure and Zone Pressure Failed	4	20

Fire Flow Node FlexTable: Fire Flow Results Table

Label	Is Fire Flow Run Balanced?	Satisfies Fire Flow Constraints?	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Fire Flow Status	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Residual) (psi)
J-661	True	False	1,500.00	951.89	1,500.00	951.89	Residual Pressure and Zone Pressure Failed	4	20
J-662	True	False	1,500.00	948.39	1,500.00	948.39	Residual Pressure and Zone Pressure Failed	3	20
J-663	True	False	1,500.00	960.30	1,500.00	960.30	Residual Pressure and Zone Pressure Failed	4	20
J-664	True	False	1,500.00	1,047.53	1,500.00	1,047.53	Zone Pressure Failed	10	21
J-665	True	False	1,500.00	866.43	1,500.00	866.43	Residual Pressure Failed	-3	20
J-666	True	False	1,500.00	954.95	1,500.00	954.95	Residual Pressure and Zone Pressure Failed	4	20
J-667	True	False	1,500.00	920.98	1,500.00	920.98	Residual Pressure and Zone Pressure Failed	2	20
J-668	True	False	1,500.00	870.10	1,500.00	870.10	Residual Pressure Failed	-2	20
J-669	True	False	1,500.00	893.72	1,500.00	893.72	Residual Pressure and Zone Pressure Failed	0	20
J-670	True	False	1,500.00	765.75	1,664.74	930.49	Residual Pressure Failed	-11	20
J-671	True	False	1,500.00	1,046.25	1,500.00	1,046.25	Zone Pressure Failed	10	21
J-672	True	False	1,500.00	956.87	1,500.00	956.87	Residual Pressure and Zone Pressure Failed	4	20
J-673	True	False	1,500.00	1,221.90	1,500.00	1,221.90	Residual Pressure Failed	13	20
J-674	True	False	1,500.00	1,214.05	1,500.00	1,214.05	Residual Pressure and Zone Pressure Failed	13	20
J-675	True	False	1,500.00	1,214.84	1,541.74	1,256.58	Zone Pressure Failed	14	20
J-677	True	False	1,500.00	1,040.40	1,500.00	1,040.40	Residual Pressure Failed	0	20
J-689	True	False	1,500.00	1,418.52	1,500.00	1,418.52	Residual Pressure Failed	18	20
J-690	True	False	1,500.00	1,399.70	1,500.00	1,399.70	Residual Pressure Failed	17	20
J-750	True	False	1,500.00	1,454.05	1,500.00	1,454.05	Residual Pressure Failed	19	20
J-763	True	False	1,500.00	1,475.99	1,500.00	1,475.99	Residual Pressure Failed	19	20
J-764	True	False	1,500.00	1,466.73	1,500.00	1,466.73	Residual Pressure Failed	19	20
J-765	True	False	1,500.00	1,483.76	1,500.00	1,483.76	Residual Pressure Failed	20	20
J-770	True	False	1,500.00	1,227.52	1,500.00	1,227.52	Residual Pressure Failed	11	20
J-771	True	False	1,500.00	1,103.10	1,500.00	1,103.10	Residual Pressure Failed	4	20

Fire Flow Node FlexTable: Fire Flow Results Table

Label	Is Fire Flow Run Balanced?	Satisfies Fire Flow Constraints?	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Fire Flow Status	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Residual) (psi)
J-772	True	False	1,500.00	1,084.75	1,500.00	1,084.75	Residual Pressure and Zone Pressure Failed	3	20
J-773	True	False	1,500.00	1,096.50	1,500.00	1,096.50	Residual Pressure and Zone Pressure Failed	3	20
J-775	True	False	1,500.00	1,152.81	1,500.00	1,152.81	Residual Pressure and Zone Pressure Failed	7	20
J-776	True	False	1,500.00	1,133.22	1,500.00	1,133.22	Residual Pressure and Zone Pressure Failed	5	20
J-777	True	False	1,500.00	1,123.54	1,500.00	1,123.54	Residual Pressure and Zone Pressure Failed	5	20
J-778	True	False	1,500.00	1,108.06	1,500.00	1,108.06	Residual Pressure and Zone Pressure Failed	4	20
J-779	True	False	1,500.00	1,111.12	1,500.00	1,111.12	Residual Pressure and Zone Pressure Failed	4	20
J-780	True	False	1,500.00	1,125.65	1,500.00	1,125.65	Residual Pressure and Zone Pressure Failed	5	20
J-781	True	False	1,500.00	1,126.17	1,500.00	1,126.17	Residual Pressure and Zone Pressure Failed	5	20
J-782	True	False	1,500.00	1,065.27	1,500.00	1,065.27	Residual Pressure Failed	1	20
J-783	True	False	1,500.00	1,049.70	1,586.74	1,136.44	Residual Pressure Failed	0	20
J-791	True	False	1,500.00	1,048.16	1,500.00	1,048.16	Residual Pressure Failed	-6	20
J-799	True	False	1,500.00	1,041.47	1,669.24	1,210.71	Zone Pressure Failed	9	21
J-800	True	False	1,500.00	974.88	1,586.74	1,061.62	Residual Pressure Failed	-1	20
J-802	True	False	1,500.00	1,268.24	1,549.24	1,317.48	Residual Pressure Failed	10	20
J-805	True	False	1,500.00	1,217.27	1,546.24	1,263.51	Residual Pressure Failed	12	20
J-806	True	False	1,500.00	987.06	1,529.74	1,016.80	Residual Pressure Failed	0	20
J-807	True	False	1,500.00	990.32	1,531.24	1,021.56	Zone Pressure Failed	6	20
J-808	True	False	1,500.00	642.80	1,725.49	868.29	Residual Pressure Failed	-34	20
J-809	True	False	1,500.00	960.53	1,669.24	1,129.77	Residual Pressure Failed	-9	20
J-810	True	False	1,500.00	961.95	1,500.00	961.95	Residual Pressure Failed	-10	20
J-811	True	False	1,500.00	997.96	1,642.24	1,140.20	Residual Pressure Failed	-7	20
J-822	True	False	1,500.00	1,166.43	1,664.74	1,331.17	Residual Pressure Failed	9	20
J-1048	True	False	1,500.00	1,465.09	1,500.00	1,465.09	Zone Pressure Failed	20	21

Fire Flow Node FlexTable: Fire Flow Results Table

Label	Is Fire Flow Run Balanced?	Satisfies Fire Flow Constraints?	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Fire Flow Status	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Residual) (psi)
J-1049	True	False	1,500.00	1,057.99	1,500.00	1,057.99	Residual Pressure and Zone Pressure Failed	6	20
J-1053	True	False	1,500.00	1,097.90	1,500.00	1,097.90	Residual Pressure and Zone Pressure Failed	10	20
J-1058	True	False	1,500.00	973.35	1,500.00	973.35	Residual Pressure Failed	5	20

Scenario: 2032
Low Pressure Analysis
Junction Table
Current Time: 19.00 hours @Peak Flow

ID	Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)	Pressure Head (ft)
40	J-1	100.00	0.00	211.03	48	111.03
41	J-2	100.00	0.00	211.03	48	111.03
55	J-3	100.00	0.00	211.51	48	111.51
56	J-4	100.00	0.00	211.65	48	111.65
58	J-5	100.00	0.00	211.03	48	111.03
59	J-6	100.00	0.00	211.03	48	111.03
61	J-7	100.00	0.00	211.00	48	111.00
62	J-8	100.00	97.24	210.98	48	110.98
64	J-9	100.00	0.00	227.89	55	127.89
67	J-10	100.00	0.00	211.04	48	111.04
69	J-11	100.00	0.00	211.04	48	111.04
71	J-12	100.00	0.00	211.13	48	111.13
74	J-13	100.00	0.00	213.65	49	113.65
76	J-14	100.00	0.00	200.82	44	100.82
77	J-15	100.00	0.00	200.91	44	100.91
79	J-16	100.00	0.00	211.28	48	111.28
81	J-17	100.00	0.00	212.09	48	112.09
82	J-18	100.00	0.00	211.87	48	111.87
84	J-19	100.00	59.74	209.40	47	109.40
85	J-20	100.00	0.00	208.64	47	108.64
89	J-21	100.00	0.00	214.50	50	114.50
91	J-22	100.00	0.00	210.75	48	110.75
93	J-23	100.00	0.00	218.70	51	118.70
94	J-24	100.00	0.00	221.96	53	121.96
96	J-25	100.00	0.00	208.51	47	108.51
97	J-26	100.00	0.00	209.11	47	109.11
99	J-27	100.00	0.00	209.11	47	109.11
100	J-28	100.00	0.00	215.79	50	115.79
105	J-29	100.00	0.00	211.89	48	111.89
108	J-30	100.00	0.00	214.51	50	114.51
109	J-31	100.00	0.00	214.49	50	114.49
111	J-32	100.00	0.00	211.28	48	111.28
113	J-33	100.00	0.00	209.89	48	109.89
114	J-34	100.00	0.00	209.89	48	109.89
116	J-35	100.00	0.00	210.92	48	110.92
117	J-36	100.00	0.00	211.86	48	111.86
119	J-37	100.00	0.00	227.99	55	127.99
120	J-38	100.00	0.00	223.57	53	123.57
122	J-39	100.00	0.00	196.81	42	96.81
123	J-40	100.00	0.00	196.95	42	96.95
125	J-41	100.00	0.00	222.27	53	122.27
126	J-42	100.00	0.00	222.69	53	122.69
128	J-43	100.00	0.00	223.64	53	123.64
129	J-44	100.00	0.00	220.51	52	120.51
131	J-45	100.00	58.24	206.91	46	106.91
132	J-46	100.00	0.00	204.18	45	104.18
137	J-47	100.00	0.00	172.52	31	72.52
138	J-48	100.00	0.00	228.52	56	128.52
146	J-49	100.00	164.74	210.46	48	110.46
147	J-50	100.00	0.00	211.03	48	111.03
153	J-51	100.00	0.00	228.28	56	128.28
161	J-52	100.00	0.00	211.71	48	111.71
162	J-53	100.00	0.00	211.71	48	111.71
164	J-54	100.00	0.00	213.28	49	113.28
165	J-55	100.00	0.00	213.28	49	113.28
173	J-56	100.00	0.00	198.67	43	98.67
178	J-57	100.00	0.00	215.87	50	115.87
179	J-58	100.00	78.49	215.86	50	115.86
181	J-59	100.00	0.00	214.93	50	114.93
182	J-60	100.00	0.00	214.93	50	114.93
184	J-61	100.00	0.00	214.67	50	114.67
185	J-62	100.00	0.00	214.67	50	114.67
187	J-63	100.00	0.00	209.95	48	109.95
188	J-64	100.00	0.00	209.80	48	109.80
190	J-65	100.00	0.00	214.91	50	114.91
191	J-66	100.00	0.00	214.91	50	114.91
196	J-67	100.00	0.00	213.09	49	113.09
197	J-68	100.00	0.00	213.09	49	113.09
206	J-69	100.00	0.00	207.87	47	107.87
209	J-70	100.00	0.00	204.47	45	104.47
211	J-71	100.00	0.00	214.81	50	114.81
212	J-72	100.00	0.00	214.79	50	114.79
214	J-73	100.00	0.00	210.95	48	110.95
215	J-74	100.00	0.00	210.95	48	110.95
217	J-75	100.00	0.00	210.10	48	110.10
218	J-76	100.00	0.00	210.10	48	110.10
221	J-77	100.00	0.00	214.49	50	114.49
223	J-78	100.00	0.00	214.49	50	114.49
225	J-79	100.00	0.00	195.23	41	95.23
226	J-80	100.00	0.00	195.23	41	95.23
230	J-81	100.00	0.00	209.02	47	109.02
231	J-82	100.00	0.00	209.01	47	109.01
233	J-83	100.00	0.00	209.76	47	109.76
234	J-84	100.00	0.00	209.76	47	109.76
236	J-85	100.00	0.00	201.52	44	101.52

FlexTable: Junction Table

Current Time: 19.00 hours

ID	Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)	Pressure Head (ft)
237	J-85	100.00	0.00	201.52	44	101.52
239	J-87	100.00	0.00	216.55	50	116.55
240	J-88	100.00	0.00	216.55	50	116.55
242	J-89	100.00	0.00	213.96	49	113.96
243	J-90	100.00	0.00	214.52	50	114.52
245	J-91	100.00	0.00	209.77	47	109.77
246	J-92	100.00	0.00	209.77	47	109.77
248	J-93	100.00	0.00	203.32	45	103.32
249	J-94	100.00	0.00	203.31	45	103.31
251	J-95	100.00	0.00	209.77	47	109.77
252	J-96	100.00	0.00	209.77	47	109.77
254	J-97	100.00	0.00	200.32	43	100.32
255	J-98	100.00	0.00	200.32	43	100.32
258	J-99	100.00	0.00	223.10	53	123.10
260	J-100	100.00	0.00	211.34	48	111.34
261	J-101	100.00	0.00	211.34	48	111.34
263	J-102	100.00	0.00	200.69	44	100.69
264	J-103	100.00	0.00	200.69	44	100.69
266	J-104	100.00	0.00	197.48	42	97.48
267	J-105	100.00	235.24	196.95	42	96.95
269	J-106	100.00	0.00	200.97	44	100.97
270	J-107	100.00	114.49	200.97	44	100.97
272	J-108	100.00	0.00	197.03	42	97.03
273	J-109	100.00	0.00	197.03	42	97.03
275	J-110	100.00	0.00	202.78	44	102.78
276	J-111	100.00	114.49	202.78	44	102.78
278	J-112	100.00	0.00	201.91	44	101.91
279	J-113	100.00	0.00	201.91	44	101.91
281	J-114	100.00	0.00	198.67	43	98.67
283	J-115	100.00	0.00	210.92	48	110.92
284	J-116	100.00	0.00	210.92	48	110.92
286	J-117	100.00	0.00	200.86	44	100.86
287	J-118	100.00	0.00	200.85	44	100.85
289	J-119	100.00	0.00	202.30	44	102.30
290	J-120	100.00	0.00	202.30	44	102.30
292	J-121	100.00	0.00	200.93	44	100.93
293	J-122	100.00	0.00	200.93	44	100.93
295	J-123	100.00	0.00	214.91	50	114.91
297	J-124	100.00	0.00	200.91	44	100.91
298	J-125	100.00	0.00	200.91	44	100.91
300	J-126	100.00	0.00	215.93	50	115.93
301	J-127	100.00	0.00	215.93	50	115.93
303	J-128	100.00	0.00	211.04	48	111.04
305	J-129	100.00	0.00	214.49	50	114.49
306	J-130	100.00	0.00	214.49	50	114.49
308	J-131	100.00	0.00	197.44	42	97.44
309	J-132	100.00	225.49	196.88	42	96.88
311	J-133	100.00	0.00	209.43	47	109.43
312	J-134	100.00	0.00	209.43	47	109.43
314	J-135	100.00	0.00	197.49	42	97.49
315	J-136	100.00	0.00	197.44	42	97.44
317	J-137	100.00	105.49	211.37	48	111.37
319	J-138	100.00	0.00	204.24	45	104.24
320	J-139	100.00	0.00	204.24	45	104.24
322	J-140	100.00	0.00	214.93	50	114.93
324	J-141	100.00	0.00	214.60	50	114.60
325	J-142	100.00	0.00	214.52	50	114.52
327	J-143	100.00	0.00	197.48	42	97.48
328	J-144	100.00	0.00	197.48	42	97.48
331	J-145	100.00	0.00	213.07	49	113.07
334	J-146	100.00	251.74	214.82	50	114.82
336	J-147	100.00	0.00	209.77	47	109.77
337	J-148	100.00	0.00	209.77	47	109.77
339	J-149	100.00	0.00	211.86	48	111.86
340	J-150	100.00	0.00	211.66	48	111.66
342	J-151	100.00	0.00	214.49	50	114.49
343	J-152	100.00	0.00	214.49	50	114.49
345	J-153	100.00	0.00	208.59	47	108.59
346	J-154	100.00	0.00	208.59	47	108.59
348	J-155	100.00	0.00	208.55	47	108.55
349	J-156	100.00	0.00	208.58	47	108.58
351	J-157	100.00	0.00	213.13	49	113.13
352	J-158	100.00	0.00	213.19	49	113.19
354	J-159	100.00	0.00	211.56	48	111.56
355	J-160	100.00	0.00	211.50	48	111.50
357	J-161	100.00	0.00	209.58	47	109.58
358	J-162	100.00	0.00	209.58	47	109.58
360	J-163	100.00	0.00	200.87	44	100.87
361	J-164	100.00	0.00	200.87	44	100.87
363	J-165	100.00	0.00	209.86	48	109.86
364	J-166	100.00	105.49	209.61	47	109.61
366	J-167	100.00	0.00	209.56	47	109.56
367	J-168	100.00	0.00	209.55	47	109.55
369	J-169	100.00	0.00	215.52	50	115.52
370	J-170	100.00	0.00	215.79	50	115.79

FlexTable: Junction Table

Current Time: 19:00 hours

ID	Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)	Pressure Head (ft)
372	J-171	100.00	0.00	209.09	47	109.09
373	J-172	100.00	0.00	209.06	47	109.06
375	J-173	100.00	0.00	216.95	51	116.95
376	J-174	100.00	0.00	214.77	50	114.77
378	J-175	100.00	52.24	209.12	47	109.12
379	J-176	100.00	0.00	209.32	47	109.32
381	J-177	100.00	0.00	208.40	47	108.40
382	J-178	100.00	0.00	208.53	47	108.53
384	J-179	100.00	0.00	214.58	50	114.58
387	J-180	100.00	0.00	209.77	47	109.77
388	J-181	100.00	121.24	209.85	48	109.85
390	J-182	100.00	0.00	199.72	43	99.72
391	J-183	100.00	212.74	197.99	42	97.99
393	J-184	100.00	0.00	212.61	49	112.61
394	J-185	100.00	0.00	211.90	48	111.90
396	J-186	100.00	0.00	223.08	53	123.08
397	J-187	100.00	0.00	223.08	53	123.08
399	J-188	100.00	0.00	209.02	47	109.02
400	J-189	100.00	0.00	209.04	47	109.04
402	J-190	100.00	0.00	209.61	47	109.61
403	J-191	100.00	0.00	209.61	47	109.61
405	J-192	100.00	0.00	214.27	49	114.27
406	J-193	100.00	0.00	214.88	50	114.88
408	J-194	100.00	0.00	217.89	51	117.89
409	J-195	100.00	0.00	217.89	51	117.89
411	J-196	100.00	0.00	217.24	51	117.24
412	J-197	100.00	0.00	217.24	51	117.24
414	J-198	100.00	0.00	203.35	45	103.35
415	J-199	100.00	0.00	203.38	45	103.38
417	J-200	100.00	0.00	203.40	45	103.40
418	J-201	100.00	0.00	203.45	45	103.45
420	J-202	100.00	0.00	210.02	48	110.02
421	J-203	100.00	0.00	210.01	48	110.01
423	J-204	100.00	0.00	215.44	50	115.44
424	J-205	100.00	0.00	214.45	50	114.45
426	J-206	100.00	0.00	209.53	47	109.53
427	J-207	100.00	0.00	209.53	47	109.53
429	J-208	100.00	0.00	210.00	48	110.00
430	J-209	100.00	0.00	209.86	48	109.86
432	J-210	100.00	0.00	216.53	50	116.53
433	J-211	100.00	0.00	216.53	50	116.53
435	J-212	100.00	0.00	211.33	48	111.33
436	J-213	100.00	0.00	211.45	48	111.45
438	J-214	100.00	0.00	202.09	44	102.09
439	J-215	100.00	0.00	201.64	44	101.64
441	J-216	100.00	0.00	215.99	50	115.99
443	J-217	100.00	0.00	213.36	49	113.36
446	J-218	100.00	0.00	208.31	47	108.31
449	J-219	100.00	52.24	205.15	45	105.15
450	J-220	100.00	0.00	203.69	45	103.69
452	J-221	100.00	0.00	208.55	47	108.55
453	J-222	100.00	0.00	205.24	46	105.24
455	J-223	100.00	0.00	200.91	44	100.91
456	J-224	100.00	0.00	200.91	44	100.91
461	J-225	100.00	0.00	211.96	48	111.96
462	J-226	100.00	0.00	211.86	48	111.86
464	J-227	100.00	0.00	217.98	51	117.98
465	J-228	100.00	0.00	217.98	51	117.98
467	J-229	100.00	0.00	210.81	48	110.81
469	J-230	100.00	0.00	221.01	52	121.01
472	J-231	100.00	0.00	223.08	53	123.08
473	J-232	100.00	0.00	223.08	53	123.08
475	J-233	100.00	0.00	214.49	50	114.49
477	J-234	100.00	0.00	203.28	45	103.28
478	J-235	100.00	0.00	203.31	45	103.31
480	J-236	100.00	0.00	214.34	49	114.34
482	J-237	100.00	0.00	202.64	44	102.64
483	J-238	100.00	0.00	202.64	44	102.64
485	J-239	100.00	0.00	215.18	50	115.18
486	J-240	100.00	0.00	217.49	51	117.49
488	J-241	100.00	0.00	213.35	49	113.35
489	J-242	100.00	0.00	213.35	49	113.35
491	J-243	100.00	0.00	212.18	49	112.18
493	J-244	100.00	0.00	211.79	48	111.79
494	J-245	100.00	137.74	210.71	48	110.71
496	J-246	100.00	0.00	205.00	45	105.00
498	J-247	100.00	0.00	208.04	47	108.04
499	J-248	100.00	0.00	207.69	47	107.69
501	J-249	100.00	0.00	215.34	50	115.34
502	J-250	100.00	0.00	215.34	50	115.34
504	J-251	100.00	0.00	204.08	45	104.08
505	J-252	100.00	0.00	204.08	45	104.08
507	J-253	100.00	0.00	214.11	49	114.11
508	J-254	100.00	0.00	213.83	49	113.83
510	J-255	100.00	0.00	177.28	33	77.28

FlexTable: Junction Table

Current Time: 19.00 hours

ID	Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)	Pressure Head (ft)
511	J-256	100.00	0.00	187.57	38	87.57
513	J-257	100.00	0.00	200.91	44	100.91
514	J-258	100.00	0.00	200.91	44	100.91
517	J-259	100.00	0.00	200.06	43	100.06
519	J-260	100.00	0.00	220.70	52	120.70
520	J-261	100.00	0.00	214.04	49	114.04
522	J-262	100.00	0.00	214.25	49	114.25
523	J-263	100.00	0.00	215.25	50	115.25
525	J-264	100.00	0.00	203.47	45	103.47
526	J-265	100.00	0.00	203.28	45	103.28
528	J-266	100.00	0.00	201.52	44	101.52
529	J-267	100.00	0.00	201.52	44	101.52
531	J-268	100.00	0.00	209.05	47	109.05
532	J-269	100.00	0.00	208.60	47	108.60
534	J-270	100.00	0.00	212.88	49	112.88
535	J-271	100.00	0.00	217.36	51	117.36
537	J-272	100.00	148.24	210.51	48	110.51
539	J-273	100.00	191.74	210.30	48	110.30
540	J-274	100.00	0.00	211.97	48	111.97
542	J-275	100.00	0.00	209.77	47	109.77
543	J-276	100.00	0.00	209.79	47	109.79
545	J-277	100.00	0.00	207.07	46	107.07
546	J-278	100.00	0.00	208.07	47	108.07
548	J-279	100.00	0.00	210.42	48	110.42
549	J-280	100.00	0.00	210.42	48	110.42
551	J-281	100.00	0.00	210.10	48	110.10
552	J-282	100.00	0.00	209.94	48	109.94
554	J-283	100.00	0.00	200.97	44	100.97
555	J-284	100.00	0.00	201.64	44	101.64
557	J-285	100.00	0.00	201.12	44	101.12
558	J-286	100.00	0.00	201.35	44	101.35
560	J-287	100.00	0.00	221.55	53	121.55
561	J-288	100.00	0.00	223.10	53	123.10
563	J-289	100.00	0.00	209.60	47	109.60
565	J-290	100.00	0.00	200.87	44	100.87
566	J-291	100.00	0.00	200.85	44	100.85
568	J-292	100.00	0.00	211.66	48	111.66
569	J-293	100.00	0.00	211.45	48	111.45
571	J-294	100.00	0.00	207.88	47	107.88
573	J-295	100.00	235.24	199.66	43	99.66
574	J-296	100.00	0.00	203.39	45	103.39
576	J-297	100.00	0.00	209.39	47	109.39
577	J-298	100.00	120.49	207.71	47	107.71
579	J-299	100.00	0.00	212.24	49	112.24
580	J-300	100.00	0.00	213.43	49	113.43
582	J-301	100.00	0.00	214.24	49	114.24
583	J-302	100.00	202.24	213.71	49	113.71
585	J-303	100.00	0.00	200.92	44	100.92
586	J-304	100.00	0.00	200.82	44	100.82
588	J-305	100.00	0.00	209.66	47	109.66
589	J-306	100.00	94.24	207.54	47	107.54
591	J-307	100.00	0.00	210.02	48	110.02
592	J-308	100.00	0.00	210.01	48	110.01
594	J-309	100.00	0.00	211.32	48	111.32
595	J-310	100.00	0.00	211.48	48	111.48
597	J-311	100.00	0.00	232.15	57	132.15
599	J-312	100.00	0.00	197.48	42	97.48
600	J-313	100.00	0.00	201.17	44	101.17
602	J-314	100.00	0.00	216.96	51	116.96
604	J-315	100.00	0.00	209.21	47	109.21
605	J-316	100.00	0.00	209.28	47	109.28
607	J-317	100.00	0.00	209.43	47	109.43
608	J-318	100.00	0.00	209.43	47	109.43
610	J-319	100.00	0.00	207.56	47	107.56
611	J-320	100.00	0.00	209.03	47	109.03
613	J-321	100.00	0.00	200.80	44	100.80
614	J-322	100.00	0.00	200.85	44	100.85
616	J-323	100.00	59.74	222.14	53	122.14
617	J-324	100.00	0.00	186.45	37	86.45
619	J-325	100.00	0.00	195.91	41	95.91
620	J-326	100.00	281.74	188.96	38	88.96
622	J-327	100.00	134.74	209.47	47	109.47
623	J-328	100.00	0.00	208.40	47	108.40
625	J-329	100.00	0.00	200.23	43	100.23
626	J-330	100.00	0.00	201.46	44	101.46
628	J-331	100.00	0.00	207.19	46	107.19
629	J-332	100.00	0.00	202.33	44	102.33
631	J-333	100.00	0.00	199.83	43	99.83
632	J-334	100.00	0.00	204.84	45	104.84
634	J-335	100.00	0.00	212.23	49	112.23
636	J-336	100.00	0.00	213.94	49	113.94
639	J-338	100.00	0.00	203.07	45	103.07
641	J-339	100.00	0.00	221.41	53	121.41
644	J-340	100.00	127.24	215.13	50	115.13
645	J-341	100.00	0.00	218.13	51	118.13

FlexTable: Junction Table

Current Time: 19.00 hours

ID	Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)	Pressure Head (ft)
650	J-342	100.00	0.00	212.89	49	112.89
653	J-343	100.00	0.00	210.54	48	110.54
655	J-344	100.00	0.00	204.15	45	104.15
657	J-345	100.00	0.00	209.55	47	109.55
658	J-346	100.00	0.00	209.79	48	109.79
660	J-347	100.00	0.00	216.13	50	116.13
661	J-348	100.00	0.00	227.64	55	127.64
663	J-349	100.00	0.00	203.95	45	103.95
664	J-350	100.00	0.00	200.86	44	100.86
666	J-351	100.00	0.00	213.42	49	113.42
667	J-352	100.00	0.00	218.00	51	118.00
670	J-353	100.00	0.00	213.20	49	113.20
671	J-354	100.00	0.00	211.54	48	111.54
673	J-355	100.00	251.74	210.34	48	110.34
674	J-356	100.00	0.00	104.02	2	4.02
676	J-357	100.00	0.00	212.96	49	112.96
677	J-358	100.00	0.00	212.96	49	112.96
682	J-359	100.00	0.00	210.35	48	110.35
683	J-360	100.00	0.00	209.01	47	109.01
685	J-361	100.00	0.00	222.90	53	122.90
686	J-362	100.00	0.00	212.81	49	112.81
688	J-363	100.00	0.00	223.33	53	123.33
689	J-364	100.00	0.00	212.95	49	112.95
691	J-365	100.00	0.00	203.40	45	103.40
692	J-366	100.00	0.00	215.91	50	115.91
695	J-367	100.00	0.00	208.55	47	108.55
696	J-368	100.00	0.00	208.72	47	108.72
701	J-369	100.00	0.00	214.21	49	114.21
707	J-370	100.00	0.00	211.55	48	111.55
708	J-371	100.00	0.00	211.55	48	111.55
710	J-372	100.00	0.00	205.36	46	105.36
711	J-373	100.00	0.00	205.36	46	105.36
713	J-374	100.00	0.00	200.85	44	100.85
718	J-375	100.00	0.00	212.64	49	112.64
723	J-378	100.00	0.00	218.71	51	118.71
724	J-379	100.00	0.00	218.71	51	118.71
726	J-380	100.00	0.00	210.07	48	110.07
728	J-381	100.00	0.00	203.41	45	103.41
729	J-382	100.00	0.00	203.41	45	103.41
737	J-383	100.00	0.00	209.63	47	109.63
738	J-384	100.00	0.00	209.61	47	109.61
741	J-385	100.00	0.00	115.42	7	15.42
750	J-386	100.00	0.00	211.14	48	111.14
751	J-387	100.00	0.00	210.98	48	110.98
753	J-388	100.00	0.00	211.29	48	111.29
756	J-389	100.00	0.00	207.68	47	107.68
757	J-390	100.00	0.00	207.56	47	107.56
759	J-391	100.00	0.00	205.32	46	105.32
760	J-392	100.00	0.00	205.32	46	105.32
762	J-393	100.00	0.00	203.42	45	103.42
764	J-394	100.00	0.00	218.75	51	118.75
765	J-395	100.00	0.00	218.75	51	118.75
767	J-396	100.00	0.00	218.77	51	118.77
768	J-397	100.00	0.00	218.77	51	118.77
775	J-398	100.00	0.00	209.89	48	109.89
776	J-399	100.00	0.00	209.89	48	109.89
778	J-400	100.00	0.00	228.52	56	128.52
779	J-401	100.00	0.00	228.52	56	128.52
781	J-402	100.00	0.00	190.39	39	90.39
783	J-403	100.00	0.00	195.25	41	95.25
787	J-404	100.00	0.00	211.06	48	111.06
788	J-405	100.00	0.00	211.04	48	111.04
790	J-406	100.00	0.00	213.38	49	113.38
794	J-407	100.00	0.00	193.59	40	93.59
796	J-408	100.00	0.00	208.74	47	108.74
797	J-409	100.00	0.00	208.73	47	108.73
801	J-410	100.00	0.00	217.04	51	117.04
802	J-411	100.00	32.74	217.03	51	117.03
804	J-412	100.00	0.00	215.44	50	115.44
806	J-413	100.00	0.00	208.80	47	108.80
807	J-414	100.00	0.00	208.80	47	108.80
809	J-415	100.00	0.00	211.55	48	111.55
810	J-416	100.00	0.00	211.55	48	111.55
812	J-417	100.00	0.00	222.54	53	122.54
813	J-418	100.00	148.24	222.73	53	122.73
820	J-419	100.00	0.00	209.13	47	109.13
821	J-420	100.00	0.00	209.13	47	109.13
823	J-421	100.00	0.00	203.57	45	103.57
824	J-422	100.00	0.00	203.52	45	103.52
841	J-423	100.00	0.00	210.43	48	110.43
842	J-424	100.00	0.00	210.43	48	110.43
853	J-425	100.00	0.00	214.18	49	114.18
855	J-426	100.00	0.00	205.26	46	105.26
856	J-427	100.00	0.00	205.26	46	105.26
859	J-428	100.00	0.00	209.57	47	109.57

FlexTable: Junction Table

Current Time: 19.00 hours

ID	Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)	Pressure Head (ft)
861	J-429	100.00	0.00	204.04	45	104.04
862	J-430	100.00	0.00	204.04	45	104.04
864	J-431	100.00	0.00	204.59	45	104.59
865	J-432	100.00	0.00	204.59	45	104.59
868	J-433	100.00	0.00	209.13	47	109.13
870	J-434	100.00	0.00	209.13	47	109.13
871	J-435	100.00	0.00	209.13	47	109.13
873	J-436	100.00	0.00	209.13	47	109.13
874	J-437	100.00	0.00	209.13	47	109.13
877	J-438	100.00	0.00	209.51	47	109.51
879	J-439	100.00	0.00	212.13	49	112.13
880	J-440	100.00	0.00	212.13	49	112.13
882	J-441	100.00	0.00	203.30	45	103.30
884	J-442	100.00	0.00	211.79	48	111.79
888	J-443	100.00	0.00	220.70	52	120.70
889	J-444	100.00	0.00	221.12	52	121.12
891	J-445	100.00	0.00	204.62	45	104.62
892	J-446	100.00	0.00	204.52	45	104.52
894	J-447	100.00	0.00	218.77	51	118.77
895	J-448	100.00	0.00	218.79	51	118.79
897	J-449	100.00	0.00	218.74	51	118.74
898	J-450	100.00	0.00	218.73	51	118.73
903	J-451	100.00	0.00	201.86	44	101.86
904	J-452	100.00	0.00	201.87	44	101.87
909	J-454	100.00	0.00	201.82	44	101.82
911	J-455	100.00	0.00	212.97	49	112.97
912	J-456	100.00	0.00	212.97	49	112.97
916	J-457	100.00	0.00	203.28	45	103.28
918	J-458	100.00	0.00	209.89	48	109.89
920	J-459	100.00	0.00	209.01	47	109.01
921	J-460	100.00	0.00	209.02	47	109.02
923	J-461	100.00	0.00	203.35	45	103.35
925	J-462	100.00	0.00	209.03	47	109.03
927	J-463	100.00	0.00	203.81	45	103.81
928	J-464	100.00	89.74	203.81	45	103.81
930	J-465	100.00	89.74	203.95	45	103.95
933	J-467	100.00	0.00	212.28	49	112.28
934	J-468	100.00	0.00	212.33	49	112.33
936	J-469	100.00	0.00	102.46	1	2.46
939	J-470	100.00	0.00	206.75	46	106.75
944	J-471	100.00	0.00	211.01	48	111.01
945	J-472	100.00	164.74	211.01	48	111.01
947	J-473	100.00	0.00	210.10	48	110.10
948	J-474	100.00	0.00	210.10	48	110.10
951	J-475	100.00	0.00	212.67	49	112.67
953	J-476	100.00	0.00	212.69	49	112.69
956	J-477	100.00	0.00	211.12	48	111.12
957	J-478	100.00	0.00	211.11	48	111.11
959	J-479	100.00	0.00	212.70	49	112.70
960	J-480	100.00	0.00	212.62	49	112.62
962	J-481	100.00	0.00	204.94	45	104.94
963	J-482	100.00	0.00	205.48	46	105.48
965	J-483	100.00	0.00	209.50	47	109.50
966	J-484	100.00	0.00	209.50	47	109.50
968	J-485	100.00	0.00	196.11	42	96.11
969	J-486	100.00	0.00	196.39	42	96.39
971	J-487	100.00	0.00	211.51	48	111.51
972	J-488	100.00	0.00	211.54	48	111.54
974	J-489	100.00	0.00	214.93	50	114.93
977	J-490	100.00	0.00	212.34	49	112.34
978	J-491	100.00	0.00	212.37	49	112.37
980	J-492	100.00	0.00	198.21	42	98.21
986	J-494	100.00	0.00	210.58	48	110.58
987	J-495	100.00	0.00	210.75	48	110.75
989	J-496	100.00	0.00	212.28	49	112.28
992	J-497	100.00	0.00	107.10	3	7.10
994	J-498	100.00	131.74	211.41	48	111.41
995	J-499	100.00	0.00	211.44	48	111.44
998	J-500	100.00	0.00	211.50	48	111.50
1001	J-502	100.00	525.24	201.16	44	101.16
1003	J-503	100.00	0.00	211.22	48	111.22
1005	J-504	100.00	0.00	201.85	44	101.85
1006	J-505	100.00	0.00	202.94	45	102.94
1008	J-506	100.00	56.74	198.31	43	98.31
1009	J-507	100.00	0.00	198.60	43	98.60
1011	J-508	100.00	0.00	211.55	48	111.55
1012	J-509	100.00	0.00	211.55	48	111.55
1014	J-510	100.00	0.00	212.12	49	112.12
1015	J-511	100.00	0.00	212.12	49	112.12
1017	J-512	100.00	0.00	210.38	48	110.38
1019	J-513	100.00	0.00	210.10	48	110.10
1020	J-514	100.00	0.00	210.10	48	110.10
1024	J-515	100.00	0.00	214.05	49	114.05
1030	J-516	100.00	0.00	221.69	53	121.69
1031	J-517	100.00	0.00	222.94	53	122.94

FlexTable: Junction Table

Current Time: 19.00 hours

ID	Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)	Pressure Head (ft)
1033	J-518	100.00	0.00	207.54	47	107.54
1034	J-519	100.00	0.00	207.36	46	107.36
1036	J-520	100.00	0.00	212.74	49	112.74
1037	J-521	100.00	0.00	212.70	49	112.70
1040	J-522	100.00	0.00	208.72	47	108.72
1043	J-523	100.00	0.00	204.17	45	104.17
1047	J-525	100.00	0.00	205.11	45	105.11
1048	J-526	100.00	0.00	205.12	45	105.12
1054	J-527	100.00	0.00	212.73	49	112.73
1057	J-528	100.00	0.00	199.43	43	99.43
1061	J-529	100.00	91.24	212.37	49	112.37
1062	J-530	100.00	0.00	212.63	49	112.63
1064	J-531	100.00	0.00	209.12	47	109.12
1066	J-532	100.00	140.74	212.09	48	112.09
1067	J-533	100.00	0.00	212.16	49	112.16
1069	J-534	100.00	0.00	169.02	30	69.02
1074	J-535	100.00	0.00	205.12	45	105.12
1075	J-536	100.00	0.00	205.02	45	105.02
1078	J-537	100.00	0.00	208.88	47	108.88
1082	J-538	100.00	0.00	201.82	44	101.82
1084	J-539	100.00	221.74	203.19	45	103.19
1088	J-540	100.00	0.00	214.46	50	114.46
1091	J-541	100.00	0.00	200.20	43	100.20
1095	J-542	100.00	0.00	203.58	45	103.58
1097	J-543	100.00	0.00	205.26	46	105.26
1100	J-544	100.00	0.00	204.42	45	104.42
1101	J-545	100.00	0.00	204.42	45	104.42
1103	J-546	100.00	0.00	205.03	45	105.03
1104	J-547	100.00	251.74	204.48	45	104.48
1106	J-548	100.00	0.00	201.86	44	101.86
1107	J-549	100.00	0.00	201.86	44	101.86
1110	J-550	100.00	0.00	212.09	49	112.09
1112	J-551	100.00	0.00	199.57	43	99.57
1113	J-552	100.00	106.24	199.53	43	99.53
1116	J-553	100.00	0.00	204.38	45	104.38
1117	J-554	100.00	0.00	204.26	45	104.26
1122	J-557	100.00	0.00	214.24	49	114.24
1125	J-558	100.00	0.00	210.03	48	110.03
1126	J-559	100.00	0.00	209.80	48	109.80
1128	J-560	100.00	0.00	211.50	48	111.50
1135	J-561	100.00	0.00	211.61	48	111.61
1136	J-562	100.00	0.00	210.84	48	110.84
1138	J-563	100.00	0.00	210.96	48	110.96
1139	J-564	100.00	0.00	211.25	48	111.25
1141	J-565	100.00	0.00	212.15	49	112.15
1142	J-566	100.00	0.00	212.25	49	112.25
1144	J-567	100.00	0.00	204.23	45	104.23
1145	J-568	100.00	0.00	203.84	45	103.84
1147	J-569	100.00	0.00	198.20	42	98.20
1152	J-571	100.00	0.00	201.85	44	101.85
1153	J-572	100.00	0.00	201.85	44	101.85
1161	J-577	100.00	0.00	204.23	45	104.23
1162	J-578	100.00	0.00	204.65	45	104.65
1164	J-579	100.00	0.00	204.36	45	104.36
1165	J-580	100.00	0.00	204.43	45	104.43
1167	J-581	100.00	0.00	201.85	44	101.85
1168	J-582	100.00	0.00	201.85	44	101.85
1170	J-583	100.00	0.00	213.96	49	113.96
1174	J-584	100.00	0.00	212.38	49	112.38
1177	J-585	100.00	0.00	212.12	49	112.12
1181	J-586	100.00	0.00	207.22	46	107.22
1183	J-587	100.00	0.00	211.55	48	111.55
1186	J-588	100.00	0.00	204.23	45	104.23
1188	J-589	100.00	0.00	201.65	44	101.65
1189	J-590	100.00	0.00	201.84	44	101.84
1191	J-591	100.00	0.00	212.30	49	112.30
1192	J-592	100.00	0.00	212.40	49	112.40
1194	J-593	100.00	0.00	204.83	45	104.83
1196	J-594	100.00	0.00	211.89	48	111.89
1197	J-595	100.00	0.00	211.09	48	111.09
1199	J-596	100.00	78.49	212.93	49	112.93
1201	J-597	100.00	170.74	207.62	47	107.62
1204	J-598	100.00	0.00	201.85	44	101.85
1205	J-599	100.00	0.00	201.84	44	101.84
1210	J-601	100.00	0.00	203.64	45	103.64
1212	J-602	100.00	0.00	198.38	43	98.38
1213	J-603	100.00	0.00	197.19	42	97.19
1216	J-604	100.00	0.00	205.26	46	105.26
1217	J-605	100.00	0.00	204.96	45	104.96
1219	J-606	100.00	0.00	211.09	48	111.09
1220	J-607	100.00	0.00	211.30	48	111.30
1222	J-608	100.00	0.00	205.26	46	105.26
1224	J-609	100.00	91.24	218.71	51	118.71
1225	J-610	100.00	0.00	218.83	51	118.83
1227	J-611	100.00	61.24	199.60	43	99.60

FlexTable: Junction Table

Current Time: 19.00 hours

ID	Label	Elevation (ft.)	Demand (gpm)	Hydraulic Grade (ft.)	Pressure (psi)	Pressure Head (ft.)
1230	J-612	100.00	0.00	218.74	51	118.74
1231	J-613	100.00	0.00	218.77	51	118.77
1233	J-614	100.00	0.00	209.16	47	109.16
1235	J-615	100.00	0.00	198.29	43	98.29
1236	J-616	100.00	91.24	197.42	42	97.42
1238	J-617	100.00	0.00	135.19	15	35.19
1240	J-618	100.00	0.00	201.86	44	101.86
1241	J-619	100.00	0.00	201.83	44	101.83
1246	J-620	100.00	0.00	218.75	51	118.75
1247	J-621	100.00	0.00	221.41	53	121.41
1249	J-622	100.00	0.00	219.16	52	119.16
1252	J-623	100.00	0.00	209.04	47	109.04
1254	J-624	100.00	0.00	210.18	48	110.18
1257	J-625	100.00	0.00	200.45	43	100.45
1258	J-626	100.00	0.00	199.60	43	99.60
1262	J-627	100.00	0.00	202.02	44	102.02
1265	J-628	100.00	59.74	205.42	46	105.42
1267	J-629	100.00	0.00	211.07	48	111.07
1268	J-630	100.00	0.00	211.19	48	111.19
1270	J-631	100.00	0.00	200.94	44	100.94
1271	J-632	100.00	0.00	199.59	43	99.59
1275	J-633	100.00	97.24	208.72	47	108.72
1281	J-634	100.00	0.00	198.19	42	98.19
1283	J-635	100.00	112.24	212.33	49	112.33
1284	J-636	100.00	0.00	214.24	49	114.24
1287	J-637	100.00	0.00	211.22	48	111.22
1288	J-638	100.00	97.24	210.79	48	110.79
1294	J-639	100.00	0.00	206.88	46	106.88
1297	J-640	100.00	0.00	214.56	50	114.56
1298	J-641	100.00	0.00	218.14	51	118.14
1305	J-642	100.00	59.74	195.21	41	95.21
1322	J-643	100.00	0.00	217.24	51	117.24
1326	J-644	100.00	0.00	212.26	49	112.26
1330	J-645	100.00	0.00	221.59	53	121.59
1339	J-646	100.00	0.00	210.50	48	110.50
2181	J-647	100.00	0.00	230.35	56	130.35
2186	J-648	100.00	0.00	199.83	43	99.83
2192	J-649	100.00	0.00	198.20	42	98.20
2199	J-650	100.00	0.00	212.30	49	112.30
2204	J-651	100.00	0.00	214.80	50	114.80
2212	J-652	100.00	0.00	215.99	50	115.99
2215	J-653	100.00	0.00	200.87	44	100.87
2226	J-654	100.00	0.00	196.89	42	96.89
2245	J-655	100.00	0.00	195.22	41	95.22
2250	J-656	100.00	0.00	195.22	41	95.22
2276	J-657	100.00	203.74	195.21	41	95.21
2278	J-658	100.00	0.00	195.26	41	95.26
2280	J-659	100.00	0.00	195.22	41	95.22
2281	J-660	100.00	0.00	195.22	41	95.22
2283	J-661	100.00	0.00	195.22	41	95.22
2285	J-662	100.00	0.00	195.22	41	95.22
2288	J-663	100.00	0.00	195.26	41	95.26
2294	J-664	100.00	0.00	195.81	41	95.81
2297	J-665	100.00	0.00	195.25	41	95.25
2300	J-666	100.00	0.00	195.25	41	95.25
2302	J-667	100.00	0.00	195.25	41	95.25
2304	J-668	100.00	0.00	195.25	41	95.25
2306	J-669	100.00	0.00	195.25	41	95.25
2309	J-670	100.00	164.74	195.12	41	95.12
2311	J-671	100.00	0.00	195.79	41	95.79
2317	J-672	100.00	0.00	195.25	41	95.25
2325	J-673	100.00	0.00	199.52	43	99.52
2328	J-674	100.00	0.00	198.73	43	98.73
2330	J-675	100.00	41.74	198.44	43	98.44
2335	J-676	100.00	0.00	208.33	47	108.33
2338	J-677	100.00	0.00	208.33	47	108.33
2340	J-678	100.00	0.00	214.01	49	114.01
2343	J-679	100.00	0.00	214.01	49	114.01
2345	J-680	100.00	0.00	214.01	49	114.01
2347	J-681	100.00	0.00	214.01	49	114.01
2349	J-682	100.00	0.00	213.45	49	113.45
2352	J-683	100.00	0.00	213.00	49	113.00
2354	J-684	100.00	0.00	212.94	49	112.94
2356	J-685	100.00	118.24	212.68	49	112.68
2358	J-686	100.00	0.00	212.68	49	112.68
2362	J-687	100.00	0.00	212.81	49	112.81
2365	J-688	100.00	0.00	212.82	49	112.82
2369	J-689	100.00	0.00	212.34	49	112.34
2371	J-690	100.00	0.00	212.37	49	112.37
2373	J-691	100.00	0.00	212.91	49	112.91
2376	J-692	100.00	0.00	214.32	49	114.32
2378	J-693	100.00	0.00	215.27	50	115.27
2380	J-694	100.00	0.00	215.71	50	115.71
2382	J-695	100.00	0.00	216.01	50	116.01
2384	J-696	100.00	0.00	216.00	50	116.00

FlexTable: Junction Table

Current Time: 19.00 hours

ID	Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)	Pressure Head (ft)
2386	J-697	100.00	0.00	215.89	50	115.89
2388	J-698	100.00	0.00	215.44	50	115.44
2392	J-699	100.00	0.00	215.93	50	115.93
2396	J-700	100.00	0.00	214.49	50	114.49
2400	J-701	100.00	0.00	215.94	50	115.94
2404	J-702	100.00	0.00	216.37	50	116.37
2408	J-703	100.00	0.00	218.23	51	118.23
2414	J-705	100.00	0.00	219.14	52	119.14
2418	J-706	100.00	0.00	212.12	49	112.12
2420	J-707	100.00	0.00	212.11	49	112.11
2422	J-708	100.00	0.00	212.11	49	112.11
2423	J-709	100.00	0.00	212.12	49	112.12
2425	J-710	100.00	0.00	212.12	49	112.12
2429	J-711	100.00	0.00	212.12	49	112.12
2431	J-712	100.00	0.00	212.11	49	112.11
2434	J-713	100.00	0.00	212.01	48	112.01
2436	J-714	100.00	0.00	212.09	48	112.09
2440	J-715	100.00	0.00	212.23	49	112.23
2443	J-716	100.00	0.00	212.23	49	112.23
2445	J-717	100.00	0.00	212.23	49	112.23
2447	J-718	100.00	0.00	212.23	49	112.23
2449	J-719	100.00	0.00	212.23	49	112.23
2451	J-720	100.00	0.00	212.23	49	112.23
2454	J-721	100.00	0.00	212.30	49	112.30
2456	J-722	100.00	121.24	212.33	49	112.33
2458	J-723	100.00	0.00	212.34	49	112.34
2462	J-724	100.00	0.00	212.79	49	112.79
2464	J-725	100.00	0.00	212.97	49	112.97
2468	J-726	100.00	86.74	212.88	49	112.88
2470	J-727	100.00	0.00	213.88	49	113.88
2474	J-728	100.00	0.00	214.87	50	114.87
2476	J-729	100.00	82.24	214.89	50	114.89
2478	J-730	100.00	0.00	215.43	50	115.43
2480	J-731	100.00	0.00	215.48	50	115.48
2483	J-732	100.00	0.00	222.71	53	122.71
2495	J-733	100.00	0.00	211.12	48	111.12
2496	J-734	100.00	0.00	211.12	48	111.12
2498	J-735	100.00	0.00	211.12	48	111.12
2502	J-736	100.00	0.00	211.15	48	111.15
2505	J-737	100.00	0.00	211.15	48	111.15
2507	J-738	100.00	0.00	211.15	48	111.15
2509	J-739	100.00	0.00	211.15	48	111.15
2511	J-740	100.00	0.00	211.15	48	111.15
2513	J-741	100.00	0.00	211.24	48	111.24
2516	J-742	100.00	0.00	211.24	48	111.24
2518	J-743	100.00	0.00	211.21	48	111.21
2521	J-744	100.00	0.00	211.21	48	111.21
2523	J-745	100.00	0.00	211.17	48	111.17
2526	J-746	100.00	0.00	211.17	48	111.17
2528	J-747	100.00	0.00	209.96	48	109.96
2531	J-748	100.00	0.00	210.00	48	110.00
2533	J-749	100.00	0.00	210.01	48	110.01
2537	J-750	100.00	0.00	204.41	45	104.41
2538	J-751	100.00	0.00	204.41	45	104.41
2540	J-752	100.00	0.00	204.41	45	104.41
2542	J-753	100.00	0.00	204.41	45	104.41
2544	J-754	100.00	0.00	204.41	45	104.41
2548	J-755	100.00	0.00	204.41	45	104.41
2550	J-756	100.00	0.00	204.41	45	104.41
2554	J-757	100.00	0.00	204.41	45	104.41
2556	J-758	100.00	0.00	204.41	45	104.41
2560	J-759	100.00	0.00	204.41	45	104.41
2562	J-760	100.00	0.00	204.41	45	104.41
2564	J-761	100.00	0.00	204.41	45	104.41
2566	J-762	100.00	0.00	204.41	45	104.41
2568	J-763	100.00	0.00	204.41	45	104.41
2570	J-764	100.00	0.00	204.41	45	104.41
2572	J-765	100.00	0.00	204.41	45	104.41
2574	J-766	100.00	0.00	204.41	45	104.41
2576	J-767	100.00	0.00	204.41	45	104.41
2578	J-768	100.00	0.00	204.41	45	104.41
2583	J-769	100.00	0.00	204.41	45	104.41
2587	J-770	100.00	0.00	200.91	44	100.91
2590	J-771	100.00	0.00	203.85	45	103.85
2592	J-772	100.00	0.00	203.82	45	103.82
2594	J-773	100.00	0.00	203.84	45	103.84
2596	J-774	100.00	0.00	204.10	45	104.10
2598	J-775	100.00	0.00	203.86	45	103.86
2603	J-776	100.00	0.00	203.86	45	103.86
2606	J-777	100.00	0.00	203.85	45	103.85
2608	J-778	100.00	0.00	203.84	45	103.84
2612	J-779	100.00	0.00	203.85	45	103.85
2615	J-780	100.00	0.00	203.85	45	103.85
2619	J-781	100.00	0.00	203.85	45	103.85
2623	J-782	100.00	0.00	203.84	45	103.84

FlexTable: Junction Table

Current Time: 19.00 hours

ID	Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)	Pressure Head (ft)
2625	J-783	100.00	86.74	203.80	45	103.80
2634	J-784	100.00	0.00	203.35	45	103.35
2637	J-785	100.00	0.00	204.90	45	104.90
2644	J-786	100.00	0.00	214.42	50	114.42
2646	J-787	100.00	0.00	214.45	50	114.45
2648	J-788	100.00	0.00	214.49	50	114.49
2652	J-789	100.00	0.00	214.64	50	114.64
2654	J-790	100.00	0.00	214.69	50	114.69
2671	J-791	100.00	0.00	212.48	49	112.48
2680	J-792	100.00	0.00	231.36	57	131.36
2685	J-793	100.00	0.00	229.34	56	129.34
2700	J-794	100.00	0.00	211.66	48	111.66
2705	J-795	100.00	0.00	210.01	48	110.01
2720	J-797	100.00	0.00	234.60	58	134.60
2731	J-798	100.00	0.00	216.97	51	116.97
2776	J-799	100.00	169.24	195.81	41	95.81
2779	J-800	100.00	86.74	201.46	44	101.46
2782	J-801	100.00	80.74	212.09	48	112.09
2785	J-802	100.00	49.24	220.88	52	120.88
2787	J-803	100.00	216.49	225.38	54	125.38
2790	J-804	100.00	216.49	215.33	50	115.33
2796	J-805	100.00	46.24	201.12	44	101.12
2799	J-806	100.00	29.74	202.00	44	102.00
2805	J-807	100.00	31.24	195.52	41	95.52
2808	J-808	100.00	225.49	195.59	41	95.59
2811	J-809	100.00	169.24	207.91	47	107.91
2814	J-810	100.00	0.00	208.05	47	108.05
2818	J-811	100.00	142.24	208.15	47	108.15
2821	J-812	100.00	91.24	208.31	47	108.31
2824	J-813	100.00	184.24	209.13	47	109.13
2829	J-814	100.00	0.00	209.12	47	109.12
2831	J-815	100.00	65.74	209.44	47	109.44
2834	J-816	100.00	120.49	209.50	47	109.50
2837	J-817	100.00	100.24	211.25	48	111.25
2840	J-818	100.00	100.24	210.14	48	110.14
2843	J-819	100.00	164.74	211.07	48	111.07
2846	J-820	100.00	52.24	213.37	49	113.37
2850	J-821	100.00	127.24	222.43	53	122.43
2856	J-822	100.00	164.74	203.11	45	103.11
2860	J-823	100.00	0.00	222.44	53	122.44
2931	J-1045	100.00	0.00	203.39	45	103.39
2942	J-1048	100.00	0.00	200.89	44	100.89
2946	J-1049	100.00	0.00	197.97	42	97.97
2955	J-1050	100.00	0.00	218.19	51	118.19
2960	J-1052	100.00	0.00	209.17	47	109.17
2984	J-1053	100.00	0.00	195.79	41	95.79
3007	J-1058	100.00	0.00	195.38	41	95.38
3011	J-1059	100.00	0.00	209.56	47	109.56
3021	J-1060	100.00	0.00	222.49	53	122.49
3067	J-1069	100.00	0.00	195.21	41	95.21
3073	J-1070	100.00	0.00	195.23	41	95.23
3075	J-1071	100.00	0.00	195.23	41	95.23
3077	J-1072	100.00	0.00	195.23	41	95.23
3083	J-1073	100.00	0.00	195.83	41	95.83
3091	J-1074	100.00	0.00	206.99	46	106.99
3093	J-1075	100.00	0.00	206.99	46	106.99
3096	J-1076	100.00	0.00	207.01	46	107.01
3098	J-1077	100.00	0.00	207.08	46	107.08
3100	J-1078	100.00	0.00	207.09	46	107.09
3104	J-1079	100.00	0.00	207.09	46	107.09
3107	J-1080	100.00	0.00	207.06	46	107.06
3109	J-1081	100.00	0.00	207.04	46	107.04
3111	J-1082	100.00	0.00	206.99	46	106.99
3115	J-1083	100.00	0.00	207.07	46	107.07
3118	J-1084	100.00	0.00	207.08	46	107.08
3120	J-1085	100.00	0.00	207.08	46	107.08
3122	J-1086	100.00	0.00	207.09	46	107.09
3124	J-1087	100.00	0.00	207.11	46	107.11
3126	J-1088	100.00	0.00	207.34	46	107.34
3130	J-1089	100.00	0.00	207.09	46	107.09
3134	J-1090	100.00	0.00	207.45	46	107.45
3138	J-1091	100.00	0.00	205.86	46	105.86
3139	J-1092	100.00	0.00	205.86	46	105.86
3141	J-1093	100.00	0.00	205.86	46	105.86
3143	J-1094	100.00	0.00	205.86	46	105.86
3145	J-1095	100.00	0.00	205.86	46	105.86
3147	J-1096	100.00	0.00	205.86	46	105.86
3151	J-1097	100.00	0.00	211.43	48	111.43
3153	J-1098	100.00	0.00	211.27	48	111.27
3155	J-1099	100.00	0.00	211.21	48	111.21
3157	J-1100	100.00	0.00	209.60	47	109.60
3161	J-1101	100.00	0.00	211.05	48	111.05
3165	J-1102	100.00	0.00	203.91	45	103.91
3168	J-1103	100.00	0.00	203.84	45	103.84
3170	J-1104	100.00	0.00	203.84	45	103.84

FlexTable: Junction Table
Current Time: 19.00 hours

ID	Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)	Pressure Head (ft)
3173	J-1105	100.00	0.00	203.84	45	103.84
3176	J-1106	100.00	0.00	203.84	45	103.84
3180	J-1107	100.00	0.00	203.83	45	103.83
3183	J-1108	100.00	0.00	203.84	45	103.84
3187	J-1109	100.00	0.00	203.83	45	103.83
3190	J-1110	100.00	0.00	203.85	45	103.85
3195	J-1111	100.00	0.00	203.86	45	103.86
3199	J-1112	100.00	0.00	204.40	45	104.40
3201	J-1113	100.00	0.00	204.39	45	104.39
3203	J-1114	100.00	0.00	204.27	45	104.27
3205	J-1115	100.00	0.00	204.17	45	104.17
3210	J-1117	100.00	0.00	204.41	45	104.41
3213	J-1118	100.00	0.00	204.38	45	104.38
3219	J-1119	100.00	0.00	202.22	44	102.22
3221	J-1120	100.00	0.00	202.64	44	102.64
3223	J-1121	100.00	0.00	202.51	44	102.51
3228	J-1123	100.00	0.00	214.55	50	114.55
3231	J-1124	100.00	0.00	214.49	50	114.49
3235	J-1125	100.00	0.00	212.90	49	112.90
3239	J-1126	100.00	0.00	212.81	49	112.81
3273	J-1127	100.00	0.00	203.27	45	103.27
3336	J-1136	100.00	0.00	209.61	47	109.61
3343	J-1138	100.00	0.00	212.44	49	112.44
3348	J-1140	100.00	0.00	212.81	49	112.81
3355	J-1141	100.00	0.00	210.81	48	110.81
3359	J-1142	100.00	0.00	210.41	48	110.41
3369	J-1144	100.00	0.00	210.35	48	110.35
3373	J-1145	100.00	0.00	210.35	48	110.35
3375	J-1146	100.00	0.00	211.06	48	111.06
3378	J-1147	100.00	0.00	211.03	48	111.03
3383	J-1148	100.00	0.00	221.30	52	121.30
3389	J-1149	100.00	0.00	212.79	49	112.79
3393	J-1150	100.00	0.00	212.69	49	112.69
3397	J-1151	100.00	0.00	211.18	48	111.18
3402	J-1152	100.00	0.00	213.07	49	113.07
3405	J-1153	100.00	0.00	213.64	49	113.64
3416	J-1156	100.00	0.00	209.89	48	109.89
3420	J-1157	100.00	0.00	209.89	48	109.89
3431	J-1158	100.00	0.00	208.05	47	108.05
3435	J-1159	100.00	0.00	198.44	43	98.44
3441	J-1160	100.00	0.00	208.15	47	108.15
3443	J-1161	100.00	0.00	208.15	47	108.15
3445	J-1162	100.00	0.00	208.15	47	108.15
3447	J-1163	100.00	0.00	208.15	47	108.15
3451	J-1164	100.00	0.00	209.60	47	109.60
3453	J-1165	100.00	0.00	209.53	47	109.53
3464	J-1166	100.00	0.00	212.28	49	112.28
3466	J-1167	100.00	0.00	212.48	49	112.48
3470	J-1168	100.00	0.00	212.28	49	112.28
3472	J-1169	100.00	0.00	212.28	49	112.28
3476	J-1170	100.00	0.00	212.28	49	112.28
3479	J-1171	100.00	0.00	212.28	49	112.28
3486	J-1173	100.00	0.00	209.47	47	109.47
3490	J-1174	100.00	0.00	209.47	47	109.47
3507	J-1175	100.00	0.00	213.64	49	113.64
3515	J-1177	100.00	0.00	208.72	47	108.72
3518	J-1178	100.00	0.00	209.97	48	109.97
3523	J-1179	100.00	0.00	210.57	48	110.57
3535	J-1180	100.00	0.00	202.22	44	102.22
3539	J-1181	100.00	0.00	202.65	44	102.65
3546	J-1183	100.00	(N/A)	(N/A)	(N/A)	(N/A)
3563	J-1185	100.00	0.00	212.81	49	112.81
3567	J-1186	100.00	0.00	212.82	49	112.82
3571	J-1187	100.00	0.00	212.58	49	112.58
3585	J-1190	100.00	0.00	196.52	42	96.52
3592	J-1192	100.00	0.00	210.92	48	110.92
3595	J-1193	100.00	0.00	208.05	47	108.05
3600	J-1194	100.00	0.00	208.05	47	108.05
3604	J-1195	100.00	0.00	218.84	51	118.84
3615	J-1198	100.00	0.00	197.17	85	97.17
3617	J-1199	100.00	0.00	197.52	85	97.52
3619	J-1200	100.00	0.00	197.72	42	97.72

Scenario: 2032
Low Pressure Analysis
Pipe Table
Current Time: 19.00 hours @Peak Flow

ID	Label	Length (Scaled) (ft)	Diameter (in)	Flow (gpm)	Material	Headloss (ft)	Pressure (Stop) (psi)	Pressure (Start) (psi)	Notes
2766	P-939	239	30.0	17,222.76	PVC	1.04	7	0	Raw Water Line
2724	P-928	342	20.0	7,758.38	PVC	2.45	57	58	
2681	P-910	165	20.0	6,242.78	PVC	0.79	57	57	
2682	P-911	232	20.0	5,917.71	PVC	1.01	56	57	
2688	P-915	388	20.0	4,479.46	PVC	1.01	56	56	
2697	P-916	476	20.0	3,601.96	PVC	0.83	56	56	
2698	P-917	186	20.0	3,066.56	PVC	0.24	56	56	
2726	P-929	118	14.0	2,586.30	PVC	0.63	3	7	Transfer Line
2727	P-930	66	14.0	2,586.30	PVC	0.35	58	57	
3254	P-308	116	14.0	2,586.07	PVC	0.62	3	7	Transfer Line
3255	P-309	74	14.0	2,586.07	PVC	0.39	58	57	
2717	P-926	118	14.0	2,586.01	PVC	0.63	3	7	Transfer Line
1391	P-216	814	12.0	1,787.51	PVC	4.64	53	56	
975	P-159	119	8.0	1,109.43	PVC	2.02	50	51	
127	P-13	1,465	12.0	1,050.80	PVC	3.12	52	53	
1085	P-173	589	8.0	1,004.93	PVC	8.32	3	7	Transfer Line
2669	P-904	351	8.0	1,004.93	PVC	4.96	2	1	Transfer Line
2674	P-907	1,398	8.0	1,004.93	PVC	19.77	7	15	Transfer Line
2740	P-936	177	10.0	1,004.93	PVC	0.84	3	7	Transfer Line
2742	P-938	39	8.0	1,004.93	PVC	0.55	40	39	Transfer Line
2963	P-229	2,633	10.0	840.32	PVC	9.02	47	51	
2670	P-905	107	8.0	768.16	PVC	0.92	2	2	Transfer Line
2732	P-932	62	16.0	768.16	PVC	0.02	51	51	
2733	P-933	88	8.0	768.16	PVC	0.75	51	54	
1392	P-217	57	12.0	736.70	PVC	0.06	53	53	
2791	P-948	1,985	8.0	716.96	PVC	15.02	50	56	
2159	P-665	182	6.0	689.63	PVC	5.20	53	55	
798	P-121	90	8.0	655.49	PVC	0.57	51	52	
3385	P-646(2)	624	8.0	637.89	PVC	3.80	51	52	
2489	P-819	48	8.0	616.92	PVC	0.27	50	50	
2488	P-818	1,258	8.0	603.32	PVC	6.91	50	53	
1380	P-210	201	10.0	589.42	PVC	0.36	55	55	
3461	P-363	64	8.0	588.64	PVC	0.34	50	50	
3148	P-214(1)	1,401	12.0	585.65	PVC	1.01	46	46	
3149	P-214(2)	844	12.0	585.65	PVC	0.61	46	46	
1386	P-212	881	12.0	585.65	PVC	0.64	45	46	
2161	P-667	368	6.0	580.57	PVC	7.66	45	49	
1640	P-353	161	6.0	573.27	PVC	3.27	46	47	
2817	P-960	81	8.0	573.27	PVC	0.40	45	46	
1698	P-382	498	8.0	558.99	PVC	2.38	51	52	
2066	P-605	188	8.0	541.04	PVC	0.85	53	53	
3384	P-645(1)	220	8.0	537.92	PVC	0.98	52	53	
3533	P-398	117	8.0	526.24	PVC	0.50	44	44	
2409	P-775	653	10.0	523.96	PVC	0.93	51	52	
1864	P-484	47	6.0	515.55	PVC	0.78	51	51	
2792	P-949	647	8.0	500.47	PVC	2.52	49	50	
3135	P-262(1)(1)	163	12.0	485.13	Ductile Iron	0.11	46	47	
749	P-111	45	8.0	477.76	PVC	0.16	48	48	
2168	P-673	1,407	10.0	463.39	PVC	1.60	47	48	
1827	P-462	512	8.0	462.15	PVC	1.72	45	46	
3238	P-191(2)	1,140	8.0	440.90	PVC	3.51	47	49	
1781	P-429	66	8.0	434.04	PVC	0.20	44	44	
2187	P-683	330	8.0	431.69	PVC	0.97	43	44	
1814	P-453	312	8.0	426.98	PVC	0.90	45	45	
1387	P-213	94	12.0	426.89	PVC	0.04	46	46	
3229	P-238(1)	56	10.0	426.76	PVC	0.05	50	50	
2557	P-852	527	12.0	424.27	PVC	0.21	45	45	
2558	P-853	575	12.0	424.27	PVC	0.23	45	45	
1324	P-200	158	6.0	418.59	PVC	1.80	50	51	
2130	P-647	92	8.0	418.59	PVC	0.26	51	51	
3236	P-306	569	8.0	418.06	PVC	1.58	49	50	
1463	P-253	37	10.0	411.15	PVC	0.03	47	47	
755	P-112	46	8.0	408.01	PVC	0.12	47	47	
1885	P-499	38	8.0	407.05	PVC	0.10	49	49	
1859	P-479	58	10.0	400.89	PVC	0.05	50	50	
2471	P-808	159	6.0	397.58	PVC	1.64	49	50	
2227	P-702	120	8.0	394.94	PVC	0.30	42	42	
2060	P-603	661	6.0	392.80	PVC	6.66	49	52	
2061	P-604	571	8.0	392.80	PVC	1.42	52	53	
3509	P-383	83	8.0	392.80	PVC	0.21	49	49	
1533	P-291	1,714	8.0	383.22	PVC	4.06	44	45	
1554	P-302	214	6.0	383.22	PVC	2.06	45	46	
1512	P-283	180	8.0	382.29	PVC	0.43	42	42	
1847	P-473	436	10.0	381.16	PVC	0.35	47	47	
1214	P-192	1,210	8.0	381.09	PVC	2.84	44	45	
1468	P-257	328	10.0	379.90	PVC	0.26	47	47	
3230	P-238(2)	31	10.0	377.52	PVC	0.02	50	50	
1423	P-233	251	8.0	377.52	PVC	0.58	49	49	
3233	P-234(1)	65	12.0	368.82	PVC	0.02	50	50	
2147	P-657	428	6.0	348.58	PVC	3.46	51	53	
3136	P-262(1)(2)	1,006	12.0	348.00	Ductile Iron	0.36	46	46	
1821	P-458	201	8.0	339.92	PVC	0.38	45	45	
2049	P-595	191	8.0	339.72	PVC	0.36	48	48	
1823	P-460	188	8.0	338.80	PVC	0.36	45	45	

FlexTable: Pipe Table
Current Time: 19.00 hours

ID	Label	Length (Scaled) (ft)	Diameter (in)	Flow (gpm)	Material	Headloss (ft)	Pressure (Stop) (psi)	Pressure (Start) (psi)	Notes
1094	P-174	730	8.0	335.79	PVC	1.36	45	45	
3511	P-385	55	8.0	335.76	PVC	0.10	49	49	
2687	P-914	2,049	6.0	333.33	PVC	15.24	49	56	
1562	P-319	91	12.0	332.58	PVC	0.02	48	48	
3102	P-262(2)	558	12.0	327.01	Ductile Iron	0.18	46	46	
3510	P-384	586	8.0	326.56	PVC	1.03	49	49	
1531	P-289	561	8.0	323.27	PVC	0.97	43	44	
2640	P-893	38	6.0	316.11	PVC	0.25	45	45	
374	P-66	328	6.0	314.22	PVC	2.18	50	51	
1848	P-474	740	10.0	313.27	PVC	0.41	47	47	
2324	P-729	139	8.0	309.86	PVC	0.22	43	43	
2149	P-659	64	6.0	300.33	PVC	0.39	55	56	
2484	P-816	424	8.0	295.54	PVC	0.62	53	53	
2947	P-956(1)	314	6.0	295.02	PVC	1.86	42	43	
3512	P-386	1,124	8.0	281.82	PVC	1.51	48	49	
2986	P-100(2)	1,254	6.0	281.74	PVC	6.83	38	41	
1599	P-328	217	6.0	279.58	PVC	1.16	44	45	
1816	P-454	315	8.0	279.48	PVC	0.42	45	45	
1180	P-189	1,096	8.0	276.31	PVC	1.42	46	47	
1844	P-470	1,391	8.0	276.31	PVC	1.80	46	46	
2353	P-745	352	8.0	272.43	PVC	0.44	49	49	
2962	P-736(2)	170	6.0	266.76	PVC	0.84	47	47	
2337	P-737	257	6.0	266.76	PVC	1.27	46	47	
2160	P-666	247	6.0	252.88	PVC	1.10	53	53	
1398	P-220	1,004	10.0	252.06	PVC	0.37	50	50	
2197	P-588	920	10.0	243.52	PVC	0.32	48	48	
2493	P-821	756	10.0	243.52	PVC	0.26	48	48	
1879	P-495	581	8.0	242.31	PVC	0.59	48	48	
1886	P-500	283	8.0	242.31	PVC	0.29	48	49	
265	P-36	135	6.0	235.24	PVC	0.53	42	42	
1929	P-523	109	6.0	231.91	PVC	0.41	50	51	
1930	P-524	341	6.0	231.91	PVC	1.30	50	50	
2081	P-614	451	8.0	229.33	PVC	0.41	49	49	
2139	P-652	253	8.0	229.33	PVC	0.23	49	49	
2864	P-990	179	8.0	228.40	PVC	0.16	53	53	
2863	P-989	298	8.0	227.62	PVC	0.27	53	53	
186	P-19	40	6.0	225.97	PVC	0.15	48	48	
725	P-108	34	6.0	225.97	PVC	0.12	48	48	
1510	P-282	314	8.0	225.18	PVC	0.28	42	42	
1699	P-383	364	8.0	225.00	PVC	0.32	51	51	
1251	P-197	1,607	8.0	224.88	PVC	1.42	47	47	
2633	P-889	146	6.0	220.98	PVC	0.51	45	45	
1830	P-464	73	8.0	216.57	PVC	0.05	45	45	
1547	P-299	1,460	6.0	215.95	PVC	4.86	44	46	
389	P-69	534	6.0	212.74	PVC	1.73	42	43	
2162	P-668	492	6.0	212.22	PVC	1.59	45	45	
1470	P-259	118	8.0	210.81	PVC	0.09	47	47	
1557	P-304	502	6.0	210.70	PVC	1.60	47	47	
1456	P-250	294	8.0	210.14	PVC	0.23	47	47	
2051	P-596	304	8.0	210.05	PVC	0.24	48	48	
1469	P-258	30	8.0	208.41	PVC	0.02	47	47	
2148	P-658	42	6.0	208.07	PVC	0.13	51	51	
2191	P-686	1,384	8.0	202.87	PVC	1.01	42	42	
1415	P-230	222	6.0	199.96	PVC	0.64	48	49	
1824	P-461	308	8.0	199.03	PVC	0.22	45	45	
256	P-33	173	6.0	195.66	PVC	0.48	53	53	
3152	P-284	158	6.0	194.84	PVC	0.43	48	48	
3163	P-287(2)	525	6.0	194.84	PVC	1.44	47	48	
2472	P-809	335	6.0	193.05	PVC	0.91	49	49	
1516	P-284	1,511	8.0	192.07	PVC	1.00	42	42	
2034	P-587	207	6.0	191.70	PVC	0.55	45	45	
2641	P-894	247	6.0	191.70	PVC	0.66	45	45	
3500	P-375	85	8.0	191.28	PVC	0.06	48	48	
2190	P-685	287	8.0	186.60	PVC	0.18	42	43	
3570	P-418	51	6.0	185.42	PVC	0.13	49	49	
1532	P-290	875	8.0	183.97	PVC	0.53	43	43	
80	P-8	1,043	10.0	183.63	PVC	0.21	48	48	
1256	P-198	1,394	8.0	183.55	PVC	0.85	43	43	
2329	P-731	1,300	8.0	183.55	PVC	0.79	43	43	
2333	P-734	489	8.0	183.55	PVC	0.30	43	43	
422	P-76	410	6.0	181.28	PVC	0.99	50	50	
2228	P-703	127	8.0	180.98	PVC	0.08	42	42	
3274	P-892(2)(1)	53	6.0	180.32	PVC	0.13	45	45	
3207	P-340(2)	901	8.0	178.94	PVC	0.52	45	45	
3531	P-396	473	6.0	176.56	PVC	1.08	42	42	
2048	P-594	210	8.0	174.98	PVC	0.12	48	48	
3371	P-374(2)	461	8.0	172.40	PVC	0.25	48	48	
2530	P-839	140	8.0	171.09	PVC	0.07	48	48	
1454	P-249	634	8.0	171.09	PVC	0.34	47	48	
3406	P-89(1)	216	6.0	170.36	PVC	0.46	49	49	
3015	P-632(2)	483	6.0	169.24	PVC	1.02	47	47	
1600	P-329	432	6.0	165.09	PVC	0.87	44	44	
1598	P-327	465	6.0	165.09	PVC	0.94	44	44	
1464	P-254	127	10.0	164.77	PVC	0.02	47	47	

FlexTable: Pipe Table
Current Time: 19.00 hours

ID	Label	Length (Scaled) (ft)	Diameter (in)	Flow (gpm)	Material	Headloss (ft)	Pressure (Stop) (psi)	Pressure (Start) (psi)	Notes
2075	P-509	64	8.0	164.31	PVC	0.03	49	49	
2058	P-601	587	6.0	162.97	PVC	1.16	49	49	
1678	P-375	161	8.0	161.68	PVC	0.08	48	48	
3208	P-300	214	8.0	161.38	PVC	0.10	45	45	
3218	P-299(2)(2)	198	8.0	161.38	PVC	0.09	45	45	
890	P-143	216	8.0	161.38	PVC	0.10	45	45	
1405	P-223	1,788	10.0	161.04	PVC	0.29	48	48	
1643	P-354	452	6.0	154.65	PVC	0.81	47	47	
2360	P-748	121	8.0	154.19	PVC	0.05	49	49	
3574	P-307(2)(1)(1)	251	8.0	152.67	PVC	0.11	49	49	
3399	P-93(2)	407	6.0	148.24	PVC	0.67	48	48	
2083	P-615	63	8.0	148.19	PVC	0.03	49	49	
2089	P-620	389	8.0	148.19	PVC	0.16	49	49	
1143	P-181	949	8.0	147.50	PVC	0.38	45	45	
822	P-128	110	8.0	145.20	PVC	0.04	45	45	
1620	P-342	39	8.0	144.89	PVC	0.02	45	45	
2529	P-838	159	8.0	144.04	PVC	0.06	48	48	
3555	P-412	33	8.0	142.71	PVC	0.01	44	44	
3607	P-426	43	8.0	142.27	PVC	0.02	51	51	
1880	P-496	292	8.0	142.17	PVC	0.11	48	48	
70	P-5	692	10.0	141.53	PVC	0.09	48	48	
78	P-7	1,210	10.0	141.53	PVC	0.15	48	48	
2494	P-822	110	10.0	141.53	PVC	0.01	48	48	
2391	P-763	297	6.0	141.20	PVC	0.45	50	50	
3164	P-288	254	6.0	140.43	PVC	0.38	48	48	
1114	P-176	1,206	8.0	139.29	PVC	0.44	43	43	
883	P-140	217	8.0	137.74	PVC	0.08	48	48	
1584	P-321	746	6.0	137.74	PVC	1.08	48	48	
2188	P-684	308	8.0	136.67	PVC	0.11	43	43	
2174	P-677	246	8.0	136.17	PVC	0.09	47	47	
2364	P-750	385	8.0	135.25	PVC	0.13	49	49	
2077	P-611	262	8.0	134.93	PVC	0.09	49	49	
3401	P-337	252	6.0	133.58	PVC	0.34	48	48	
3195	P-289(1)(1)(1)	141	8.0	132.12	PVC	0.05	45	45	
736	P-110	59	8.0	131.47	PVC	0.02	47	47	
1772	P-426	122	8.0	131.47	PVC	0.04	47	47	
3499	P-374	1,258	8.0	130.14	PVC	0.40	48	48	
1621	P-343	64	8.0	127.14	PVC	0.02	45	45	
2074	P-608	626	6.0	123.52	PVC	0.74	48	49	
2323	P-728	232	8.0	123.26	PVC	0.07	43	43	
1834	P-466	341	8.0	122.96	PVC	0.10	45	45	
1828	P-463	701	8.0	122.23	PVC	0.20	45	45	
1928	P-522	1,335	6.0	121.96	PVC	1.54	49	50	
3237	P-191(1)	99	8.0	121.58	PVC	0.03	49	49	
852	P-130	97	8.0	121.50	PVC	0.03	49	49	
2355	P-746	233	8.0	120.53	PVC	0.06	49	49	
2363	P-749	444	8.0	120.53	PVC	0.12	49	49	
1644	P-355	774	6.0	120.49	PVC	0.87	47	47	
2399	P-768	698	6.0	119.52	PVC	0.78	50	50	
2948	P-956(2)	2,172	6.0	118.46	PVC	2.38	41	42	
2032	P-586	195	6.0	117.67	PVC	0.21	45	45	
785	P-119	102	8.0	116.75	PVC	0.03	48	48	
1124	P-179	891	8.0	114.67	PVC	0.23	48	48	
2777	P-940	1,221	8.0	113.25	PVC	0.30	41	42	
2135	P-650	561	8.0	113.08	PVC	0.14	45	46	
1822	P-459	711	8.0	111.98	PVC	0.17	45	45	
1508	P-281	817	8.0	111.93	PVC	0.20	41	42	
2985	P-100(1)	123	6.0	111.93	PVC	0.12	41	41	
2466	P-805	646	6.0	111.51	PVC	0.63	49	49	
2704	P-921	100	6.0	111.47	PVC	0.10	48	48	
1722	P-400	34	6.0	111.47	PVC	0.03	48	48	
2701	P-918	206	6.0	111.47	PVC	0.20	48	48	
2800	P-952	348	6.0	109.82	PVC	0.33	44	44	
3159	P-961(2)	1,385	6.0	108.01	Asbestos Cement	1.45	47	47	
2387	P-761	119	6.0	107.28	PVC	0.11	50	50	
2406	P-773	404	6.0	107.28	PVC	0.37	50	50	
1664	P-367	89	6.0	105.49	PVC	0.08	48	48	
316	P-53	310	6.0	105.49	PVC	0.27	48	48	
362	P-62	281	6.0	105.49	PVC	0.25	47	48	
1846	P-472	825	6.0	104.86	PVC	0.72	47	47	
1838	P-467	985	8.0	103.49	PVC	0.21	45	46	
2163	P-669	313	8.0	103.49	PVC	0.07	46	46	
2164	P-670	177	8.0	103.49	PVC	0.04	46	46	
3086	P-261	179	8.0	101.12	PVC	0.04	41	41	
1805	P-445	764	8.0	99.26	PVC	0.15	44	44	
2172	P-676	577	8.0	99.10	PVC	0.11	47	47	
3394	P-307(1)	1,090	8.0	98.73	PVC	0.21	49	49	
1741	P-411	345	6.0	98.65	PVC	0.27	47	47	
3087	P-86(1)	611	6.0	98.65	PVC	0.48	47	47	
437	P-80	594	6.0	97.39	PVC	0.45	44	44	
2956	P-776(1)	634	10.0	97.31	PVC	0.04	51	51	
2094	P-625	332	8.0	97.24	PVC	0.06	48	48	

FlexTable: Pipe Table
Current Time: 19.00 hours

ID	Label	Length (Scaled) (ft)	Diameter (in)	Flow (gpm)	Material	Headloss (ft)	Pressure (Stop) (psi)	Pressure (Start) (psi)	Notes
60	P-4	306	10.0	97.24	PVC	0.02	48	48	
3593	P-623(1)	1,578	8.0	97.24	PVC	0.30	48	48	
3594	P-623(2)	713	8.0	97.24	PVC	0.13	48	48	
1853	P-476	82	6.0	96.27	PVC	0.06	49	49	
3390	P-599(1)	750	6.0	96.26	PVC	0.56	49	49	
1903	P-510	57	8.0	95.42	PVC	0.01	49	49	
2460	P-802	114	6.0	95.42	PVC	0.08	49	49	
1558	P-305	738	6.0	94.24	PVC	0.53	47	47	
2087	P-618	143	6.0	94.15	PVC	0.10	49	49	
2088	P-619	557	6.0	94.15	PVC	0.40	49	49	
1073	P-170	610	8.0	93.61	PVC	0.11	45	45	
3166	P-338(1)	826	5.0	91.73	PVC	0.56	45	45	
1234	P-195	1,279	6.0	91.24	PVC	0.86	42	43	
2099	P-629	18	6.0	91.23	PVC	0.01	48	48	
1083	P-172	630	8.0	88.39	PVC	0.10	45	45	
3391	P-599(2)	253	6.0	87.07	PVC	0.16	49	49	
2626	P-886	169	8.0	86.74	PVC	0.03	45	45	
2822	P-963	1,206	6.0	85.26	PVC	0.72	47	47	
3404	P-600(2)	216	6.0	83.37	PVC	0.12	49	49	
922	P-151	225	8.0	82.69	PVC	0.03	45	45	
1374	P-207	751	8.0	80.57	PVC	0.10	45	45	
1115	P-177	882	8.0	80.44	PVC	0.12	45	45	
1574	P-314	1,020	6.0	80.28	PVC	0.54	49	49	
2801	P-953	1,015	6.0	80.08	PVC	0.54	44	44	
1731	P-403	61	8.0	80.06	PVC	0.01	48	48	
2072	P-607	783	6.0	80.06	PVC	0.41	48	48	
177	P-16	33	6.0	78.49	PVC	0.02	50	50	
2841	P-975	832	6.0	75.38	PVC	0.39	48	48	
2844	P-977	1,090	8.0	74.25	PVC	0.12	48	48	
2825	P-965	691	8.0	73.97	PVC	0.08	47	47	
3014	P-632(1)	533	6.0	72.11	PVC	0.23	47	48	
3108	P-267	228	8.0	72.05	PVC	0.02	46	46	
3110	P-268	226	8.0	72.05	PVC	0.02	46	46	
3114	P-269	490	8.0	72.05	PVC	0.05	46	46	
2105	P-633	323	6.0	71.22	PVC	0.14	47	47	
2815	P-959	811	6.0	71.22	PVC	0.35	47	47	
1414	P-229	616	6.0	70.19	PVC	0.26	50	50	
2107	P-635	888	8.0	69.21	PVC	0.09	48	48	
795	P-120	65	8.0	68.07	PVC	0.01	47	47	
805	P-124	72	8.0	68.07	PVC	0.01	47	47	
1416	P-231	191	6.0	68.01	PVC	0.07	48	48	
530	P-91	1,149	6.0	67.90	PVC	0.45	47	47	
3226	P-304	346	6.0	67.61	PVC	0.13	44	44	
3128	P-275	202	8.0	67.16	PVC	0.02	46	46	
2321	P-726	1,164	8.0	66.52	PVC	0.11	42	43	
2018	P-575	405	6.0	66.03	PVC	0.15	45	45	
2857	P-985	1,020	6.0	65.05	PVC	0.37	45	45	
2079	P-613	549	8.0	65.03	PVC	0.05	49	49	
2113	P-640	273	8.0	65.03	PVC	0.02	49	49	
2140	P-653	24	8.0	65.03	PVC	0.00	49	49	
2315	P-722	191	8.0	63.62	PVC	0.02	41	41	
1904	P-511	270	8.0	63.50	PVC	0.02	49	49	
1501	P-278	301	6.0	62.81	PVC	0.10	48	48	
1502	P-279	334	6.0	62.81	PVC	0.11	48	48	
3498	P-373	31	8.0	62.81	PVC	0.00	48	48	
3556	P-413	35	8.0	62.76	PVC	0.00	44	44	
1726	P-401	690	8.0	62.53	PVC	0.06	48	48	
2054	P-598	420	6.0	60.91	PVC	0.13	49	49	
715	P-105	316	8.0	59.96	PVC	0.02	44	44	
1534	P-292	1,195	8.0	59.96	PVC	0.09	44	44	
2438	P-791	1,028	8.0	59.89	PVC	0.08	48	48	
2490	P-820	1,804	8.0	59.89	PVC	0.14	48	48	
2109	P-636	357	6.0	59.79	PVC	0.11	48	48	
2783	P-943	838	8.0	59.43	PVC	0.06	48	49	
3467	P-906(1)	1,373	6.0	57.69	PVC	0.40	49	49	
2128	P-645	179	6.0	56.93	PVC	0.05	50	50	
1663	P-366	236	6.0	56.45	PVC	0.07	48	48	
1480	P-265	575	6.0	56.37	PVC	0.16	47	47	
2610	P-875	294	8.0	55.86	PVC	0.02	45	45	
3211	P-297(1)	220	8.0	55.43	PVC	0.01	45	45	
3217	P-299(2)(1)	318	8.0	55.43	PVC	0.02	45	45	
210	P-22	79	6.0	54.73	PVC	0.02	50	50	
3154	P-285	608	6.0	54.41	PVC	0.16	48	48	
3156	P-286	253	6.0	54.41	PVC	0.07	48	48	
3162	P-287(1)	608	6.0	54.41	PVC	0.16	48	48	
1032	P-166	2,706	8.0	54.14	PVC	0.17	46	47	
2041	P-591	1,307	8.0	54.14	PVC	0.08	47	47	
2090	P-621	64	8.0	54.04	PVC	0.00	49	49	
3189	P-291(2)(2)(2)	240	8.0	53.31	PVC	0.01	45	45	
3197	P-289(1)(1)(1)	244	8.0	53.31	PVC	0.02	45	45	
2029	P-584	790	6.0	52.62	PVC	0.19	45	45	
353	P-61	278	6.0	51.68	PVC	0.07	48	48	

FlexTable: Pipe Table
Current Time: 19.00 hours

ID	Label	Length (Scaled) (ft)	Diameter (in)	Flow (gpm)	Material	Headloss (ft)	Pressure (Stop) (psi)	Pressure (Start) (psi)	Notes
1596	P-326	202	6.0	50.60	PVC	0.05	44	44	
1518	P-285	209	8.0	50.25	PVC	0.01	42	42	
2322	P-727	128	8.0	50.25	PVC	0.01	42	42	
2786	P-945	615	6.0	49.24	PVC	0.13	52	52	
3232	P-305	1,130	8.0	49.24	PVC	0.06	50	50	
2709	P-925	369	6.0	49.04	PVC	0.08	48	48	
313	P-52	221	6.0	48.93	PVC	0.05	42	42	
1448	P-246	2,603	6.0	48.93	PVC	0.55	42	42	
955	P-156	284	8.0	48.68	PVC	0.01	48	48	
1800	P-442	291	8.0	48.68	PVC	0.02	44	44	
727	P-109	145	8.0	48.58	PVC	0.01	45	45	
1479	P-264	175	6.0	47.31	PVC	0.03	47	48	
1476	P-262	172	6.0	45.51	PVC	0.03	47	47	
2052	P-597	1,224	8.0	45.31	PVC	0.06	48	48	
1795	P-439	281	8.0	43.52	PVC	0.01	44	44	
1806	P-446	563	8.0	43.52	PVC	0.02	44	44	
1721	P-399	343	6.0	43.46	PVC	0.06	48	48	
3194	P-295	178	8.0	42.38	PVC	0.01	45	45	
2835	P-971	496	6.0	42.26	PVC	0.08	47	47	
3452	P-355	207	8.0	40.14	PVC	0.01	47	47	
3454	P-356	1,892	8.0	40.14	PVC	0.07	47	47	
3455	P-357	102	8.0	40.14	PVC	0.00	47	47	
2419	P-782	60	8.0	38.56	PVC	0.00	49	49	
2426	P-784	138	8.0	38.56	PVC	0.00	49	49	
2437	P-790	748	8.0	38.56	PVC	0.03	48	49	
1471	P-260	48	6.0	37.74	PVC	0.01	47	47	
896	P-145	309	8.0	37.66	PVC	0.01	51	51	
2708	P-924	653	6.0	37.54	PVC	0.09	48	48	
365	P-63	460	8.0	37.32	PVC	0.01	47	47	
1845	P-471	326	6.0	35.96	PVC	0.04	47	47	
2838	P-973	613	6.0	35.11	PVC	0.07	48	48	
1804	P-444	268	8.0	35.77	PVC	0.01	44	44	
1802	P-443	280	8.0	34.95	PVC	0.01	44	44	
3070	P-253	245	8.0	34.65	PVC	0.01	41	41	
2614	P-878	211	8.0	34.21	PVC	0.01	45	45	
1639	P-352	359	6.0	34.16	PVC	0.04	47	47	
1753	P-418	287	8.0	33.85	PVC	0.01	47	47	
800	P-122	132	8.0	32.74	PVC	0.00	51	51	
1860	P-480	410	10.0	32.07	PVC	0.00	50	50	
3188	P-291(2)(2)(1)	252	8.0	31.45	PVC	0.01	45	45	
3192	P-289(1)(1)(2)	252	8.0	31.45	PVC	0.01	45	45	
371	P-65	336	6.0	31.26	PVC	0.03	47	47	
3216	P-301	1,013	8.0	31.23	PVC	0.02	45	45	
3502	P-377	1,256	8.0	31.04	PVC	0.03	48	48	
2218	P-700	647	6.0	29.44	PVC	0.05	44	44	
2219	P-701	553	6.0	29.44	PVC	0.05	44	44	
2076	P-610	390	8.0	29.37	PVC	0.01	49	49	
2616	P-879	175	8.0	29.04	PVC	0.00	45	45	
2832	P-969	802	6.0	28.46	PVC	0.06	47	47	
247	P-31	162	6.0	26.96	PVC	0.01	45	45	
881	P-139	158	6.0	26.96	PVC	0.01	45	45	
2028	P-583	212	6.0	26.96	PVC	0.01	45	45	
3202	P-298	1,002	8.0	24.21	PVC	0.01	45	45	
3212	P-297(2)	310	8.0	24.21	PVC	0.00	45	45	
3214	P-299(1)	312	8.0	24.21	PVC	0.00	45	45	
1013	P-165	419	8.0	24.03	PVC	0.01	49	49	
3133	P-277	210	8.0	23.77	PVC	0.00	46	46	
2427	P-785	517	8.0	23.19	PVC	0.01	49	49	
1735	P-407	577	8.0	22.11	PVC	0.01	47	47	
2611	P-876	906	8.0	21.65	PVC	0.01	45	45	
2439	P-792	255	8.0	21.33	PVC	0.00	48	48	
2588	P-869	265	6.0	21.16	PVC	0.01	44	44	
2589	P-870	902	6.0	21.16	PVC	0.04	44	44	
2706	P-922	187	6.0	20.92	PVC	0.01	48	48	
1810	P-450	256	8.0	20.79	PVC	0.00	44	44	
1809	P-449	268	8.0	19.97	PVC	0.00	44	44	
1489	P-270	320	10.0	19.51	PVC	0.00	48	48	
1492	P-273	147	10.0	19.51	PVC	0.00	48	48	
2969	P-271(1)	372	10.0	19.51	PVC	0.00	48	48	
2136	P-651	332	8.0	19.47	PVC	0.00	45	45	
3569	P-307(2)(1)(2)	413	8.0	19.19	PVC	0.00	49	49	
3503	P-378	577	8.0	18.88	PVC	0.01	48	48	
2613	P-877	165	8.0	18.54	PVC	0.00	45	45	
3181	P-291(2)(1)	269	8.0	18.36	PVC	0.00	45	45	
3185	P-289(1)(2)	267	8.0	18.36	PVC	0.00	45	45	
2534	P-841	491	6.0	17.64	PVC	0.02	48	48	
3206	P-340(1)	71	8.0	17.56	PVC	0.00	45	45	
2014	P-573	521	6.0	17.44	PVC	0.02	45	45	
2359	P-747	218	8.0	17.01	PVC	0.00	49	49	
1979	P-550	326	6.0	16.75	PVC	0.01	45	45	
2433	P-789	289	8.0	15.37	PVC	0.00	49	49	

FlexTable: Pipe Table
Current Time: 19.00 hours

ID	Label	Length (Scaled) (ft)	Diameter (In)	Flow (gpm)	Material	Headloss (ft)	Pressure (Stop) (psi)	Pressure (Start) (psi)	Notes
1496	P-275	524	8.0	14.76	PVC	0.00	48	48	
1166	P-187	1,025	8.0	13.73	PVC	0.01	44	44	
1902	P-509	297	10.0	13.61	PVC	0.00	50	50	
224	P-26	61	8.0	13.61	PVC	0.00	41	41	
3080	P-258	1,136	8.0	13.61	PVC	0.01	41	41	
2617	P-880	207	8.0	13.37	PVC	0.00	45	45	
3069	P-707(2)	1,134	8.0	11.47	PVC	0.00	41	41	
401	P-71	382	6.0	10.86	PVC	0.01	47	47	
1728	P-402	189	8.0	10.85	PVC	0.00	48	48	
1732	P-404	375	8.0	10.85	PVC	0.00	48	48	
564	P-97	1,354	6.0	10.80	PVC	0.02	44	44	
946	P-1555	320	8.0	10.72	PVC	0.00	48	48	
1865	P-485	111	8.0	10.72	PVC	0.00	48	48	
2402	P-770	532	6.0	10.58	PVC	0.01	50	50	
3171	P-290	393	8.0	10.54	PVC	0.00	45	45	
3174	P-291(1)	275	8.0	10.54	PVC	0.00	45	45	
3178	P-285(2)	269	8.0	10.54	PVC	0.00	45	45	
1587	P-322	943	6.0	10.36	PVC	0.01	44	44	
285	P-43	141	6.0	10.36	PVC	0.00	44	44	
2707	P-923	223	6.0	9.42	PVC	0.00	48	48	
1775	P-427	316	8.0	8.41	PVC	0.00	44	44	
1958	P-537	185	8.0	7.70	PVC	0.00	51	51	
763	P-115	311	8.0	7.36	PVC	0.00	51	51	
1779	P-428	211	8.0	7.06	PVC	0.00	44	44	
2286	P-710	1,168	8.0	6.67	PVC	0.00	41	41	
1738	P-410	78	10.0	2.08	PVC	0.00	47	47	
1647	P-357	311	6.0	1.36	PVC	0.00	47	47	
1457	P-251	80	8.0	0.67	PVC	0.00	47	47	
1458	P-252	1,266	8.0	0.67	PVC	0.00	47	47	
1472	P-261	295	6.0	0.46	PVC	0.00	47	47	
3234	P-234(2)	46	12.0	0.00	PVC	0.00	50	50	
1426	P-235	31	12.0	0.00	PVC	0.00	50	50	
1861	P-481	67	6.0	0.00	PVC	0.00	50	50	
2344	P-741	1,200	8.0	0.00	PVC	0.00	49	49	
2512	P-830	53	8.0	0.00	PVC	0.00	48	48	
1868	P-488	56	8.0	0.00	PVC	0.00	48	48	
39	P-1	71	8.0	0.00	PVC	0.00	48	48	
1436	P-240	354	6.0	0.00	PVC	0.00	50	50	
431	P-78	420	6.0	0.00	PVC	0.00	50	50	
259	P-34	182	6.0	0.00	PVC	0.00	48	48	
1992	P-557	243	6.0	0.00	PVC	0.00	44	44	
1482	P-267	111	6.0	0.00	PVC	0.00	47	47	
840	P-129	122	8.0	0.00	PVC	0.00	48	48	
2547	P-848	293	8.0	0.00	PVC	0.00	45	45	
2290	P-713	149	10.0	0.00	PVC	0.00	41	41	
3534	P-399	70	8.0	0.00	PVC	0.00	44	44	
3095	P-263(2)	122	12.0	0.00	Ductile Iron	0.00	46	46	
1172	P-188	1,074	6.0	0.00	PVC	0.00	56	56	
2508	P-828	509	8.0	0.00	PVC	0.00	48	48	
2446	P-795	449	8.0	0.00	PVC	0.00	49	49	
2510	P-829	193	8.0	0.00	PVC	0.00	48	48	
2444	P-794	181	8.0	0.00	PVC	0.00	49	49	
1748	P-415	286	6.0	0.00	Asbestos Cement	0.00	47	47	
2506	P-827	477	8.0	0.00	PVC	0.00	48	48	
722	P-107	36	8.0	0.00	PVC	0.00	51	51	
706	P-103	31	8.0	0.00	PVC	0.00	48	48	
2001	P-564	332	6.0	0.00	PVC	0.00	44	44	
777	P-117	68	8.0	0.00	PVC	0.00	56	56	
3489	P-371	56	8.0	0.00	PVC	0.00	47	47	
2450	P-797	158	8.0	0.00	PVC	0.00	49	49	
2517	P-832	116	8.0	0.00	PVC	0.00	48	48	
1434	P-239	206	6.0	0.00	PVC	0.00	50	50	
3501	P-376	598	8.0	0.00	PVC	0.00	48	48	
2217	P-699	141	6.0	0.00	PVC	0.00	44	44	
1662	P-365	132	6.0	0.00	PVC	0.00	48	48	
310	P-51	337	8.0	0.00	PVC	0.00	47	47	
280	P-41	111	6.0	0.00	PVC	0.00	43	43	
2106	P-634	329	6.0	0.00	PVC	0.00	47	47	
341	P-58	266	6.0	0.00	PVC	0.00	50	50	
2002	P-565	367	6.0	0.00	PVC	0.00	44	44	
395	P-70	495	6.0	0.00	PVC	0.00	53	53	
1668	P-369	321	6.0	0.00	PVC	0.00	48	48	
1406	P-224	660	10.0	0.00	PVC	0.00	48	48	
2339	P-738	534	6.0	0.00	PVC	0.00	47	47	
1862	P-482	538	6.0	0.00	PVC	0.00	50	50	
407	P-72	396	6.0	0.00	PVC	0.00	51	51	
235	P-28	111	6.0	0.00	PVC	0.00	44	44	
503	P-88	657	6.0	0.00	PVC	0.00	45	45	
410	P-73	400	6.0	0.00	PVC	0.00	51	51	
487	P-85	754	6.0	0.00	PVC	0.00	49	49	
271	P-38	136	6.0	0.00	PVC	0.00	42	42	
1221	P-193	1,271	8.0	0.00	PVC	0.00	46	46	
2211	P-695	205	6.0	0.00	PVC	0.00	50	50	
253	P-32	131	6.0	0.00	PVC	0.00	43	43	

FlexTable: Pipe Table
Current Time: 19.00 hours

ID	Label	Length (Scaled) (ft)	Diameter (in)	Flow (gpm)	Material	Headloss (ft)	Pressure (Stop) (psi)	Pressure (Start) (psi)	Notes
3508	P-382	704	8.0	0.00	PVC	0.00	49	49	
304	P-50	195	6.0	0.00	PVC	0.00	50	50	
216	P-24	133	6.0	0.00	PVC	0.00	48	48	
2830	P-968	597	8.0	0.00	PVC	0.00	47	47	
869	P-134	128	8.0	0.00	PVC	0.00	47	47	
2348	P-743	145	8.0	0.00	PVC	0.00	49	49	
872	P-135	128	8.0	0.00	PVC	0.00	47	47	
321	P-55	223	6.0	0.00	PVC	0.00	50	50	
180	P-17	33	6.0	0.00	PVC	0.00	50	50	
183	P-18	36	6.0	0.00	PVC	0.00	50	50	
2346	P-742	145	8.0	0.00	PVC	0.00	49	49	
3448	P-351(1)	123	8.0	0.00	PVC	0.00	47	47	
195	P-21	56	8.0	0.00	PVC	0.00	49	49	
1588	P-323	34	6.0	0.00	PVC	0.00	44	44	
1432	P-237	82	10.0	0.00	PVC	0.00	47	47	
2448	P-796	72	8.0	0.00	PVC	0.00	49	49	
2543	P-845	995	8.0	0.00	PVC	0.00	45	45	
2585	P-867	217	8.0	0.00	PVC	0.00	45	45	
2584	P-866	117	8.0	0.00	PVC	0.00	45	45	
2561	P-855	248	8.0	0.00	PVC	0.00	45	45	
3444	P-352	256	8.0	0.00	PVC	0.00	47	47	
3446	P-353	1,097	8.0	0.00	PVC	0.00	47	47	
3449	P-351(2)	1,097	8.0	0.00	PVC	0.00	47	47	
3450	P-354	253	8.0	0.00	PVC	0.00	47	47	
2575	P-861	412	8.0	0.00	PVC	0.00	45	45	
2577	P-862	196	8.0	0.00	PVC	0.00	45	45	
2571	P-859	683	8.0	0.00	PVC	0.00	45	45	
2573	P-860	267	8.0	0.00	PVC	0.00	45	45	
2586	P-868	156	8.0	0.00	PVC	0.00	45	45	
2581	P-865	1,098	8.0	0.00	PVC	0.00	45	45	
2003	P-566	327	6.0	0.00	PVC	0.00	44	44	
160	P-14	51	6.0	0.00	PVC	0.00	48	48	
910	P-148	188	8.0	0.00	PVC	0.00	49	49	
1441	P-242	56	6.0	0.00	PVC	0.00	49	49	
2522	P-834	118	8.0	0.00	PVC	0.00	48	48	
863	P-133	123	6.0	0.00	PVC	0.00	45	45	
296	P-47	159	6.0	0.00	PVC	0.00	44	44	
163	P-15	49	6.0	0.00	PVC	0.00	49	49	
2202	P-691	156	6.0	0.00	PVC	0.00	43	43	
262	P-35	135	6.0	0.00	PVC	0.00	44	44	
1841	P-468	480	8.0	0.00	PVC	0.00	46	46	
299	P-48	156	6.0	0.00	PVC	0.00	50	50	
3436	P-350	1,304	8.0	0.00	PVC	0.00	43	43	
2004	P-567	165	6.0	0.00	PVC	0.00	44	44	
213	P-23	95	6.0	0.00	PVC	0.00	48	48	
3565	P-307(2)(2)	92	8.0	0.00	PVC	0.00	49	49	
1796	P-440	1,567	8.0	0.00	PVC	0.00	44	44	
1876	P-494	128	8.0	0.00	PVC	0.00	48	48	
1185	P-190	1,097	8.0	0.00	PVC	0.00	45	45	
2110	P-637	449	6.0	0.00	PVC	0.00	48	48	
500	P-87	691	6.0	0.00	PVC	0.00	50	50	
2005	P-568	227	6.0	0.00	PVC	0.00	42	42	
1583	P-320	66	6.0	0.00	PVC	0.00	48	48	
1590	P-324	307	6.0	0.00	PVC	0.00	44	44	
1720	P-398	120	6.0	0.00	PVC	0.00	48	48	
1394	P-219	464	6.0	0.00	PVC	0.00	53	53	
288	P-44	171	6.0	0.00	PVC	0.00	44	44	
1949	P-534	701	6.0	0.00	PVC	0.00	53	53	
2527	P-837	146	8.0	0.00	PVC	0.00	48	48	
222	P-25	97	6.0	0.00	PVC	0.00	50	50	
326	P-56	245	6.0	0.00	PVC	0.00	42	42	
1010	P-164	710	8.0	0.00	PVC	0.00	48	48	
1378	P-208	172	10.0	0.00	PVC	0.00	51	55	
1438	P-241	97	6.0	0.00	PVC	0.00	50	50	
1875	P-493	387	8.0	0.00	PVC	0.00	48	48	
2007	P-569	845	6.0	0.00	PVC	0.00	42	42	
758	P-113	171	8.0	0.00	PVC	0.00	46	46	
547	P-95	1,022	6.0	0.00	PVC	0.00	48	48	
1447	P-245	1,579	6.0	0.00	PVC	0.00	42	42	
3468	P-906(2)	620	6.0	0.00	PVC	0.00	49	49	
675	P-102	2,030	6.0	0.00	PVC	0.00	49	49	
3601	P-348(2)(1)	1,711	6.0	0.00	PVC	0.00	47	47	
3596	P-348(1)	1,175	6.0	0.00	PVC	0.00	47	47	
2702	P-919	109	6.0	0.00	PVC	0.00	48	48	
803	P-123	69	6.0	0.00	PVC	0.00	50	50	
3602	P-348(2)(2)	260	6.0	0.00	PVC	0.00	47	47	
2432	P-788	537	8.0	0.00	PVC	0.00	49	49	
318	P-54	216	6.0	0.00	PVC	0.00	45	45	
344	P-59	263	6.0	0.00	PVC	0.00	47	47	
2703	P-920	501	6.0	0.00	PVC	0.00	48	48	
2301	P-716	497	8.0	0.00	PVC	0.00	41	41	
3475	P-369	742	8.0	0.00	PVC	0.00	49	49	
3493	P-372	314	8.0	0.00	PVC	0.00	47	47	
244	P-30	121	6.0	0.00	PVC	0.00	47	47	

FlexTable: Pipe Table
Current Time: 19.00 hours

ID	Label	Length (Scaled) (ft)	Diameter (in)	Flow (gpm)	Material	Headloss (ft)	Pressure (Stop) (psi)	Pressure (Start) (psi)	Notes
1407	P-225	48	6.0	0.00	PVC	0.00	47	47	
238	P-29	391	6.0	0.00	PVC	0.00	50	50	
481	P-83	648	6.0	0.00	PVC	0.00	44	44	
2372	P-755	280	6.0	0.00	PVC	0.00	49	49	
2059	P-502	77	6.0	0.00	PVC	0.00	52	52	
854	P-131	107	8.0	0.00	PVC	0.00	46	46	
2070	P-606	595	6.0	0.00	PVC	0.00	48	48	
1817	P-455	312	8.0	0.00	PVC	0.00	45	45	
808	P-125	74	8.0	0.00	PVC	0.00	48	48	
2370	P-754	284	6.0	0.00	PVC	0.00	49	49	
291	P-45	169	6.0	0.00	PVC	0.00	44	44	
3482	P-370	740	8.0	0.00	PVC	0.00	49	49	
282	P-42	90	6.0	0.00	PVC	0.00	48	48	
709	P-104	140	8.0	0.00	PVC	0.00	46	46	
268	P-37	117	6.0	0.00	PVC	0.00	44	44	
2430	P-787	116	8.0	0.00	PVC	0.00	49	49	
2308	P-719	146	8.0	0.00	PVC	0.00	41	41	
2580	P-864	154	8.0	0.00	PVC	0.00	45	45	
2624	P-885	167	8.0	0.00	PVC	0.00	45	45	
2091	P-622	92	8.0	0.00	PVC	0.00	48	48	
2303	P-717	172	8.0	0.00	PVC	0.00	41	41	
2307	P-718	154	8.0	0.00	PVC	0.00	41	41	
3480	P-368(1)	164	8.0	0.00	PVC	0.00	49	49	
2569	P-858	323	8.0	0.00	PVC	0.00	45	45	
3481	P-368(2)	136	8.0	0.00	PVC	0.00	49	49	
2565	P-857	1,248	8.0	0.00	PVC	0.00	45	45	
2563	P-856	177	8.0	0.00	PVC	0.00	45	45	
2579	P-863	295	8.0	0.00	PVC	0.00	45	45	
2541	P-844	293	8.0	0.00	PVC	0.00	45	45	
2546	P-847	998	8.0	0.00	PVC	0.00	45	45	
2555	P-851	936	8.0	0.00	PVC	0.00	45	45	
2551	P-850	245	8.0	0.00	PVC	0.00	45	45	
2549	P-849	141	8.0	0.00	PVC	0.00	45	45	
1755	P-419	394	8.0	0.00	PVC	0.00	47	47	
1967	P-542	151	8.0	0.00	PVC	0.00	51	51	
2501	P-825	474	8.0	0.00	PVC	0.00	48	48	
2009	P-570	542	6.0	0.00	PVC	0.00	42	42	
917	P-149	201	8.0	0.00	PVC	0.00	48	48	
294	P-46	144	6.0	0.00	PVC	0.00	50	50	
277	P-40	120	6.0	0.00	PVC	0.00	44	44	
3144	P-281	258	8.0	0.00	PVC	0.00	46	46	
1993	P-558	412	6.0	0.00	PVC	0.00	44	44	
3140	P-279	254	8.0	0.00	PVC	0.00	46	46	
2497	P-823	182	8.0	0.00	PVC	0.00	48	48	
1571	P-312	28	6.0	0.00	PVC	0.00	49	49	
860	P-132	123	6.0	0.00	PVC	0.00	45	45	
1411	P-227	362	6.0	0.00	PVC	0.00	53	53	
2545	P-846	186	8.0	0.00	PVC	0.00	45	45	
2216	P-698	139	6.0	0.00	PVC	0.00	44	44	
3150	P-283	747	8.0	0.00	PVC	0.00	46	46	
3146	P-282	401	8.0	0.00	PVC	0.00	46	46	
1673	P-373	224	8.0	0.00	PVC	0.00	48	48	
2559	P-854	632	8.0	0.00	PVC	0.00	45	45	
2000	P-563	125	6.0	0.00	PVC	0.00	44	44	
57	P-3	102	8.0	0.00	PVC	0.00	48	48	
3517	P-389	58	12.0	0.00	Ductile Iron	0.00	47	47	
189	P-20	51	6.0	0.00	PVC	0.00	50	50	
232	P-27	111	6.0	0.00	PVC	0.00	47	47	
463	P-81	599	6.0	0.00	PVC	0.00	51	51	
943	P-154	251	8.0	0.00	PVC	0.00	48	48	
274	P-39	120	6.0	0.00	PVC	0.00	44	44	
3142	P-280	287	8.0	0.00	PVC	0.00	46	46	
1867	P-487	41	8.0	0.00	PVC	0.00	48	48	
1874	P-492	234	8.0	0.00	PVC	0.00	48	48	
1757	P-420	300	8.0	0.00	PVC	0.00	47	47	
1412	P-228	255	6.0	0.00	PVC	0.00	53	53	
3417	P-11(1)	89	12.0	0.00	PVC	0.00	48	48	
1994	P-559	388	6.0	0.00	PVC	0.00	44	44	
3421	P-11(2)(1)	262	12.0	0.00	PVC	0.00	48	48	
1872	P-491	328	8.0	0.00	PVC	0.00	48	48	
819	P-127	79	8.0	0.00	PVC	0.00	47	47	
3422	P-11(2)(2)	49	12.0	0.00	PVC	0.00	48	48	
1760	P-421	291	8.0	0.00	PVC	0.00	47	47	
1151	P-184	1,009	8.0	-0.82	PVC	0.00	44	44	
425	P-77	419	6.0	-2.40	PVC	0.00	47	47	
1655	P-361	278	6.0	-3.25	PVC	0.00	47	47	
2797	P-950	185	6.0	-5.19	PVC	0.00	44	44	
2823	P-964	463	6.0	-5.98	PVC	0.00	47	47	
2287	P-711	35	8.0	-6.55	PVC	0.00	41	41	
2282	P-708	1,160	8.0	-6.64	PVC	0.00	41	41	
2781	P-942	382	6.0	-6.66	PVC	0.00	44	44	
1648	P-358	52	6.0	-7.70	PVC	0.00	47	47	
1646	P-356	1,849	6.0	-7.70	PVC	0.01	47	47	
3179	P-292	401	6.0	-7.82	PVC	0.00	45	45	

FlexTable: Pipe Table
Current Time: 19.00 hours

ID	Label	Length (Scaled) (ft)	Diameter (in)	Flow (gpm)	Material	Headloss (ft)	Pressure (Stop) (psi)	Pressure (Start) (psi)	Notes
2622	P-884	177	8.0	-8.28	PVC	0.00	45	45	
1105	P-175	1,062	8.0	-8.41	PVC	0.00	44	44	
1481	P-266	57	6.0	-9.07	PVC	0.00	47	47	
335	P-57	253	6.0	-9.07	PVC	0.00	47	47	
2535	P-842	434	6.0	-9.42	PVC	0.00	48	48	
766	P-116	308	8.0	-9.60	PVC	0.00	51	51	
1652	P-359	88	6.0	-10.06	PVC	0.00	47	47	
1592	P-325	376	6.0	-10.36	PVC	0.00	44	44	
2095	P-626	910	6.0	-11.42	PVC	0.01	47	47	
1807	P-447	766	8.0	-11.55	PVC	0.00	44	44	
3129	P-276	212	8.0	-12.49	PVC	0.00	46	46	
3186	P-293	401	6.0	-13.09	PVC	0.01	45	45	
2368	P-753	222	8.0	-14.72	PVC	0.00	49	49	
1733	P-405	250	6.0	-14.97	PVC	0.01	47	47	
1736	P-408	173	8.0	-14.97	PVC	0.00	47	47	
3076	P-257	1,161	8.0	-15.01	PVC	0.01	41	41	
3079	P-256(2)	43	8.0	-15.01	PVC	0.00	41	41	
2424	P-783	522	8.0	-15.37	PVC	0.00	49	49	
2428	P-786	298	8.0	-15.37	PVC	0.00	49	49	
2618	P-881	910	8.0	-15.67	PVC	0.01	45	45	
2461	P-803	1,355	8.0	-16.09	PVC	0.01	49	49	
3132	P-266(1)(2)	157	8.0	-16.10	PVC	0.00	46	46	
2195	P-687	671	8.0	-16.27	PVC	0.00	42	42	
2604	P-873	902	8.0	-18.54	PVC	0.01	45	45	
3370	P-374(1)	440	8.0	-18.88	PVC	0.00	48	48	
2096	P-627	123	6.0	-19.12	PVC	0.00	48	47	
3566	P-417	53	6.0	-19.19	PVC	0.00	49	49	
1046	P-167	488	8.0	-19.47	PVC	0.00	45	45	
1808	P-448	245	8.0	-19.97	PVC	0.00	44	44	
3106	P-266(2)	291	8.0	-20.99	PVC	0.00	46	46	
1602	P-331	656	6.0	-21.16	PVC	0.03	44	44	
476	P-82	630	6.0	-21.26	PVC	0.03	45	45	
2784	P-944	264	8.0	-21.31	PVC	0.00	48	48	
3193	P-294	399	6.0	-21.86	PVC	0.02	45	45	
3068	P-707(1)	46	8.0	-23.18	PVC	0.00	41	41	
2158	P-664	127	8.0	-24.03	PVC	0.00	49	49	
3337	P-363(1)	477	6.0	-24.76	PVC	0.03	47	47	
2842	P-976	572	6.0	-24.86	PVC	0.03	48	48	
1366	P-204	761	8.0	-25.38	PVC	0.01	45	45	
413	P-74	405	6.0	-26.08	PVC	0.03	45	45	
1499	P-277	358	8.0	-26.11	PVC	0.01	48	48	
1866	P-486	33	8.0	-26.82	PVC	0.00	48	48	
1672	P-372	153	8.0	-26.82	PVC	0.00	48	48	
2532	P-840	487	6.0	-27.06	PVC	0.03	48	48	
2536	P-843	156	6.0	-27.06	PVC	0.01	48	48	
1657	P-362	358	6.0	-28.00	PVC	0.03	47	47	
1659	P-364	670	6.0	-28.00	PVC	0.05	47	47	
3078	P-256(1)	188	8.0	-28.61	PVC	0.00	41	41	
1576	P-315	173	8.0	-29.67	PVC	0.00	49	49	
1573	P-313	136	6.0	-29.67	PVC	0.01	49	49	
2620	P-882	301	8.0	-30.88	PVC	0.01	45	45	
2595	P-871	1,064	8.0	-30.88	PVC	0.02	45	45	
2827	P-967	326	6.0	-31.26	PVC	0.03	47	47	
2453	P-799	238	8.0	-31.92	PVC	0.01	49	49	
2442	P-793	687	8.0	-31.92	PVC	0.02	49	49	
2650	P-898	723	8.0	-32.07	PVC	0.02	50	50	
3119	P-270	360	8.0	-33.70	PVC	0.01	46	46	
3121	P-271	151	8.0	-33.70	PVC	0.00	46	46	
2401	P-769	393	6.0	-33.92	PVC	0.04	50	50	
1408	P-226	278	6.0	-34.16	PVC	0.03	47	47	
2820	P-962	4,584	6.0	-34.23	Asbestos Cement	0.57	47	47	
1749	P-416	279	8.0	-34.23	PVC	0.01	47	47	
1737	P-409	736	10.0	-35.00	PVC	0.01	47	47	
3072	P-255	64	8.0	-35.29	PVC	0.00	41	41	
1960	P-538	321	8.0	-35.42	PVC	0.01	51	51	
2932	P-892(1)	325	6.0	-36.07	PVC	0.04	45	45	
2246	P-704	256	8.0	-36.56	PVC	0.01	41	41	
2251	P-705	47	8.0	-36.56	PVC	0.00	41	41	
919	P-150	165	8.0	-37.07	PVC	0.01	47	47	
1063	P-168	615	6.0	-37.07	PVC	0.08	47	47	
1734	P-406	113	6.0	-37.07	PVC	0.01	47	47	
2833	P-970	487	6.0	-37.28	PVC	0.06	47	47	
562	P-96	1,086	8.0	-37.32	PVC	0.03	47	47	
416	P-75	405	6.0	-37.43	PVC	0.05	45	45	
1968	P-543	325	8.0	-37.66	PVC	0.01	51	51	
876	P-137	155	6.0	-37.74	PVC	0.02	47	47	
878	P-138	150	8.0	-38.56	PVC	0.01	49	49	
2621	P-883	378	8.0	-39.16	PVC	0.01	45	45	
3131	P-266(1)(1)	198	8.0	-39.87	PVC	0.01	46	46	
3167	P-338(2)	1,171	6.0	-40.39	PVC	0.17	45	45	
1616	P-339	428	6.0	-40.40	PVC	0.06	45	45	
2284	P-709	49	8.0	-41.29	PVC	0.00	41	41	
3081	P-259	239	8.0	-41.42	PVC	0.01	41	41	
3071	P-254	236	8.0	-41.93	PVC	0.01	41	41	

FlexTable: Pipe Table
Current Time: 19.00 hours

ID	Label	Length (Scaled) (ft)	Diameter (in)	Flow (gpm)	Material	Headloss (ft)	Pressure (Stop) (psi)	Pressure (Start) (psi)	Notes
1910	P-513	852	8.0	-42.63	PVC	0.03	49	48	
2252	P-706	191	8.0	-43.11	PVC	0.01	41	41	
893	P-144	308	8.0	-43.12	PVC	0.01	51	51	
1969	P-544	309	6.0	-43.33	PVC	0.05	51	51	
1863	P-483	814	6.0	-43.44	PVC	0.14	51	51	
1612	P-452	149	8.0	-43.52	PVC	0.01	44	44	
1962	P-539	308	8.0	-45.02	PVC	0.01	51	51	
2200	P-689	513	8.0	-45.12	PVC	0.02	49	49	
2201	P-690	762	8.0	-45.12	PVC	0.03	49	49	
3123	P-272	193	8.0	-46.19	PVC	0.01	46	46	
1973	P-546	320	8.0	-46.22	PVC	0.02	51	51	
2030	P-585	202	6.0	-47.07	PVC	0.04	45	45	
2605	P-874	181	8.0	-47.58	PVC	0.01	45	45	
1915	P-515	273	8.0	-48.33	PVC	0.01	49	49	
761	P-114	50	8.0	-48.58	PVC	0.00	45	45	
2016	P-574	86	8.0	-48.58	PVC	0.00	45	45	
1601	P-330	70	6.0	-50.60	PVC	0.02	44	44	
1955	P-536	321	6.0	-51.03	PVC	0.07	51	51	
2798	P-951	1,015	6.0	-51.43	PVC	0.24	44	44	
1715	P-394	597	8.0	-51.47	PVC	0.03	48	48	
3117	P-265(2)	211	8.0	-52.36	PVC	0.01	46	46	
1966	P-541	322	8.0	-53.58	PVC	0.02	51	51	
350	P-60	265	6.0	-54.04	PVC	0.07	49	49	
386	P-68	300	6.0	-54.84	PVC	0.08	48	47	
1367	P-205	118	8.0	-55.43	PVC	0.01	45	45	
902	P-146	165	8.0	-55.74	PVC	0.01	44	44	
1974	P-547	317	8.0	-55.82	PVC	0.02	51	51	
3084	P-941(1)	331	8.0	-55.99	PVC	0.02	41	41	
2320	P-725	25	8.0	-56.42	PVC	0.00	41	41	
3082	P-260	298	8.0	-56.42	PVC	0.02	41	41	
1665	P-368	320	8.0	-56.45	PVC	0.02	48	48	
1506	P-280	260	8.0	-56.72	PVC	0.02	41	41	
2318	P-724	77	8.0	-56.72	PVC	0.01	41	41	
3469	P-367	694	6.0	-57.69	PVC	0.20	49	49	
3465	P-366	163	6.0	-57.69	PVC	0.05	49	49	
434	P-79	392	6.0	-59.79	PVC	0.12	48	48	
2025	P-581	274	8.0	-61.43	PVC	0.02	45	45	
993	P-162	360	8.0	-62.53	PVC	0.03	48	48	
302	P-49	151	8.0	-62.81	PVC	0.01	48	48	
1495	P-274	321	8.0	-62.81	PVC	0.03	48	48	
1563	P-307	516	8.0	-62.95	PVC	0.04	49	49	
1565	P-308	319	8.0	-62.95	PVC	0.03	49	49	
1566	P-309	285	8.0	-62.95	PVC	0.02	49	49	
2175	P-678	1,845	8.0	-63.39	PVC	0.16	47	47	
1273	P-199	1,658	8.0	-63.50	PVC	0.14	49	48	
2839	P-974	642	6.0	-64.13	PVC	0.23	48	48	
3338	P-363(2)	415	6.0	-64.89	PVC	0.15	47	47	
1654	P-360	44	6.0	-64.89	PVC	0.02	47	47	
2078	P-612	31	8.0	-65.03	PVC	0.00	49	49	
2116	P-641	493	8.0	-65.03	PVC	0.04	49	49	
3407	P-89(2)	497	6.0	-66.24	PVC	0.19	49	49	
1908	P-512	274	8.0	-66.66	PVC	0.03	49	49	
1477	P-263	517	6.0	-67.36	PVC	0.20	48	47	
1718	P-397	900	8.0	-67.92	PVC	0.09	48	48	
1077	P-171	800	8.0	-68.07	PVC	0.08	47	47	
1752	P-417	602	8.0	-68.07	PVC	0.06	47	47	
1065	P-169	771	8.0	-68.38	PVC	0.08	49	48	
3125	P-273	169	8.0	-69.97	PVC	0.02	46	46	
3430	P-347	326	6.0	-71.22	PVC	0.14	47	47	
1913	P-514	288	8.0	-72.36	PVC	0.03	49	48	
1418	P-232	792	6.0	-74.03	PVC	0.36	45	45	
3222	P-303	904	6.0	-75.10	PVC	0.43	44	44	
1604	P-332	709	6.0	-76.07	PVC	0.34	43	43	
2477	P-812	193	8.0	-76.07	PVC	0.02	50	50	
1669	P-370	653	8.0	-77.37	PVC	0.08	48	48	
1497	P-276	162	8.0	-77.57	PVC	0.02	48	48	
2836	P-972	212	6.0	-78.23	PVC	0.11	47	47	
2210	P-694	231	6.0	-78.49	PVC	0.12	50	50	
3198	P-296	385	8.0	-78.81	PVC	0.05	45	45	
970	P-158	252	8.0	-80.06	PVC	0.03	48	48	
1373	P-206	658	8.0	-80.81	PVC	0.09	45	45	
2467	P-806	1,352	8.0	-81.53	PVC	0.18	49	49	
2026	P-582	314	8.0	-82.69	PVC	0.04	45	45	
377	P-67	344	6.0	-83.50	PVC	0.20	47	47	
2022	P-578	316	8.0	-86.01	PVC	0.05	45	45	
3113	P-263(1)(2)	177	12.0	-86.06	Ductile Iron	0.00	46	46	
3097	P-264	111	8.0	-86.06	PVC	0.02	46	46	
3116	P-265(1)	398	8.0	-86.06	PVC	0.06	46	46	
2600	P-872	1,530	8.0	-86.74	PVC	0.23	45	45	
2627	P-887	334	8.0	-86.74	PVC	0.05	45	45	
3158	P-961(1)	1,510	6.0	-86.82	Asbestos Cement	1.06	47	47	
1917	P-516	197	8.0	-86.89	PVC	0.03	49	49	
2845	P-978	142	8.0	-90.49	PVC	0.02	48	48	
2653	P-899	234	6.0	-91.24	PVC	0.16	50	50	

FlexTable: Pipe Table
Current Time: 19.00 hours

ID	Label	Length (Scaled) (ft)	Diameter (in)	Flow (gpm)	Material	Headloss (ft)	Pressure (Stop) (psi)	Pressure (Start) (psi)	Notes
2655	P-900	71	6.0	-91.24	PVC	0.05	50	50	
2656	P-901	185	6.0	-91.24	PVC	0.12	50	50	
1567	P-310	161	8.0	-91.24	PVC	0.03	49	49	
1965	P-540	124	8.0	-91.24	PVC	0.02	51	51	
2394	P-765	111	6.0	-91.98	PVC	0.08	50	50	
2405	P-772	532	6.0	-91.98	PVC	0.36	50	50	
1797	P-441	1,010	8.0	-92.20	PVC	0.17	44	44	
1811	P-451	33	8.0	-92.20	PVC	0.01	44	44	
1528	P-287	371	8.0	-92.84	PVC	0.06	43	43	
2334	P-735	63	8.0	-92.84	PVC	0.01	43	43	
2455	P-800	434	8.0	-94.17	PVC	0.08	49	49	
2457	P-801	173	8.0	-94.17	PVC	0.03	49	49	
1491	P-272	535	10.0	-97.24	PVC	0.03	48	48	
1991	P-556	867	6.0	-97.39	PVC	0.66	44	44	
2813	P-958	808	6.0	-98.02	PVC	0.62	47	47	
2847	P-979	618	6.0	-98.04	PVC	0.48	49	49	
1972	P-545	204	8.0	-98.94	PVC	0.04	51	51	
3536	P-360(1)	1,020	8.0	-99.26	PVC	0.20	44	44	
1544	P-297	438	6.0	-99.47	PVC	0.35	44	44	
2858	P-986	221	6.0	-99.69	PVC	0.18	45	45	
1331	P-201	55	6.0	-99.97	PVC	0.04	53	53	
3504	P-379	1,268	8.0	-99.97	PVC	0.25	53	52	
1716	P-395	923	8.0	-100.15	PVC	0.18	48	48	
368	P-64	337	6.0	-100.73	PVC	0.27	50	50	
2499	P-824	272	8.0	-101.98	PVC	0.06	48	48	
2503	P-826	137	8.0	-101.99	PVC	0.03	48	48	
2524	P-835	136	8.0	-101.99	PVC	0.03	48	48	
2520	P-833	150	8.0	-101.99	PVC	0.03	48	48	
2525	P-836	195	8.0	-101.99	PVC	0.04	48	48	
2515	P-831	236	8.0	-101.99	PVC	0.05	48	48	
1451	P-247	129	10.0	-102.55	PVC	0.01	47	47	
2381	P-760	525	6.0	-102.56	PVC	0.44	50	50	
2393	P-764	263	6.0	-102.56	PVC	0.22	50	50	
1670	P-371	347	8.0	-104.19	PVC	0.07	48	48	
1744	P-412	813	6.0	-104.63	PVC	0.71	47	47	
1543	P-296	1,015	6.0	-104.65	PVC	0.88	44	43	
1365	P-203	249	8.0	-105.95	PVC	0.05	45	45	
1546	P-298	971	6.0	-106.13	PVC	0.87	44	44	
3586	P-957(1)	1,022	6.0	-107.03	PVC	0.93	42	41	
3587	P-957(2)	568	6.0	-107.03	PVC	0.52	42	42	
1607	P-333	498	6.0	-107.03	PVC	0.45	42	42	
2125	P-643	589	6.0	-107.63	PVC	0.54	50	49	
2019	P-576	316	8.0	-108.76	PVC	0.07	45	45	
521	P-90	1,047	6.0	-109.96	PVC	1.00	50	49	
1921	P-518	244	8.0	-110.15	PVC	0.06	49	49	
2826	P-966	646	8.0	-110.27	PVC	0.15	47	47	
2024	P-580	314	8.0	-112.09	PVC	0.08	45	45	
1923	P-520	231	8.0	-112.24	PVC	0.06	49	49	
1842	P-469	660	8.0	-113.08	PVC	0.16	46	46	
3008	P-954(1)	505	8.0	-113.14	PVC	0.12	41	41	
3009	P-954(2)	571	8.0	-113.14	PVC	0.14	41	41	
2632	P-888	186	6.0	-114.81	PVC	0.19	45	45	
1925	P-521	863	8.0	-116.34	PVC	0.23	50	49	
544	P-94	943	6.0	-116.46	PVC	1.00	47	46	
1717	P-396	53	8.0	-116.60	PVC	0.01	48	48	
2469	P-807	332	8.0	-117.79	PVC	0.09	49	49	
3344	P-98(1)	189	6.0	-118.39	PVC	0.21	49	49	
3349	P-98(2)(1)	333	6.0	-118.39	PVC	0.36	49	49	
3350	P-98(2)(2)	568	6.0	-118.39	PVC	0.62	49	49	
635	P-101	1,649	6.0	-120.13	PVC	1.85	49	48	
1577	P-316	474	8.0	-121.50	PVC	0.13	49	49	
1580	P-317	889	8.0	-121.50	PVC	0.25	50	49	
2645	P-895	304	8.0	-123.31	PVC	0.09	50	49	
2647	P-895	77	8.0	-123.31	PVC	0.02	50	50	
2649	P-897	139	8.0	-123.31	PVC	0.04	50	50	
2943	P-6(1)	721	10.0	-123.60	PVC	0.07	44	44	
2944	P-6(2)	173	10.0	-123.60	PVC	0.02	44	44	
1998	P-561	513	6.0	-123.60	PVC	0.61	44	44	
1996	P-560	482	6.0	-123.60	PVC	0.57	44	44	
3275	P-892(2)(2)	1,362	6.0	-124.41	PVC	1.63	45	45	
1530	P-288	312	8.0	-125.89	PVC	0.09	43	43	
2452	P-798	253	8.0	-126.10	PVC	0.08	49	49	
3360	P-378(1)	178	5.0	-129.05	PVC	0.23	48	48	
1137	P-180	919	8.0	-129.67	PVC	0.29	48	48	
2176	P-679	754	8.0	-131.47	PVC	0.25	47	47	
1232	P-194	1,264	8.0	-131.47	PVC	0.41	47	47	
1764	P-422	101	8.0	-131.47	PVC	0.03	47	47	
2636	P-891	29	6.0	-131.56	PVC	0.04	45	45	
2112	P-639	478	6.0	-131.95	PVC	0.64	48	48	
2023	P-579	274	8.0	-133.35	PVC	0.09	45	45	
2097	P-628	238	6.0	-134.74	PVC	0.33	48	47	
3127	P-274	646	8.0	-137.12	PVC	0.23	46	46	
3137	P-278	330	8.0	-137.12	PVC	0.12	46	46	
2366	P-751	384	8.0	-137.18	PVC	0.14	49	49	

FlexTable: Pipe Table
Current Time: 19.00 hours

ID	Label	Length (Scaled) (ft)	Diameter (in)	Flow (gpm)	Material	Headloss (ft)	Pressure (Stop) (psi)	Pressure (Start) (psi)	Notes
1986	P-553	137	6.0	-137.85	PVC	0.20	44	44	
3220	P-302	719	6.0	-137.85	PVC	1.04	44	44	
3088	P-86(2)	88	6.0	-140.09	PVC	0.13	47	47	
1363	P-202	933	6.0	-140.50	PVC	1.40	50	50	
2143	P-654	471	6.0	-140.50	PVC	0.71	51	50	
2145	P-655	432	6.0	-140.50	PVC	0.65	51	51	
2146	P-656	161	6.0	-140.50	PVC	0.24	51	51	
2970	P-271(2)	42	10.0	-141.53	PVC	0.01	48	48	
2331	P-732	660	8.0	-141.81	PVC	0.25	43	42	
2987	P-955(1)	691	8.0	-144.36	PVC	0.27	41	41	
2178	P-680	473	8.0	-146.01	PVC	0.19	49	49	
2020	P-577	172	8.0	-146.20	PVC	0.07	45	45	
1819	P-456	367	8.0	-147.50	PVC	0.15	45	45	
1857	P-477	632	8.0	-148.84	PVC	0.26	50	50	
3605	P-779(1)	635	10.0	-149.51	PVC	0.09	51	51	
2848	P-980	637	6.0	-150.28	PVC	1.08	50	49	
2289	P-712	336	10.0	-150.34	PVC	0.05	41	41	
2295	P-714	1,313	8.0	-150.34	PVC	0.55	41	41	
2367	P-752	438	8.0	-151.90	PVC	0.19	49	49	
3403	P-600(1)	245	6.0	-153.23	PVC	0.43	49	49	
1535	P-293	1,360	8.0	-154.08	PVC	0.60	43	43	
1536	P-294	75	8.0	-154.08	PVC	0.03	43	43	
1568	P-311	527	8.0	-154.19	PVC	0.23	49	49	
3012	P-630(1)	376	8.0	-154.65	PVC	0.17	47	47	
1919	P-517	257	8.0	-155.27	PVC	0.11	49	49	
1922	P-519	112	8.0	-155.27	PVC	0.05	49	49	
1809	P-334	653	6.0	-155.96	PVC	1.19	43	42	
1610	P-335	762	6.0	-155.96	PVC	1.39	43	43	
3085	P-941(2)	1,229	8.0	-157.11	PVC	0.56	42	41	
3112	P-263(1)(1)	886	12.0	-158.11	Ductile Iron	0.07	46	46	
2479	P-813	1,167	8.0	-158.31	PVC	0.54	50	50	
2481	P-814	110	8.0	-158.31	PVC	0.05	50	50	
2487	P-817	80	8.0	-158.31	PVC	0.04	50	50	
1745	P-413	1,760	8.0	-158.77	PVC	0.82	47	46	
3380	P-378(2)(2)	234	6.0	-159.14	PVC	0.44	48	48	
1625	P-346	304	8.0	-159.77	PVC	0.14	45	45	
1705	P-388	101	8.0	-161.04	PVC	0.05	48	48	
985	P-161	340	8.0	-161.04	PVC	0.16	48	48	
1706	P-389	323	8.0	-161.04	PVC	0.15	48	48	
2482	P-815	1,352	8.0	-161.77	PVC	0.65	50	50	
3540	P-360(2)(1)	903	8.0	-162.02	PVC	0.44	44	44	
2127	P-644	190	6.0	-162.37	PVC	0.37	50	50	
1883	P-497	437	6.0	-164.74	PVC	0.88	48	48	
2312	P-721	331	6.0	-164.74	PVC	0.67	41	41	
1884	P-498	416	6.0	-164.74	PVC	0.84	49	48	
2377	P-758	688	6.0	-165.94	PVC	1.41	49	49	
2379	P-759	464	6.0	-165.94	PVC	0.95	50	49	
3575	P-307(2)(1)(1)	462	8.0	-166.23	PVC	0.23	49	49	
3225	P-890(2)	405	6.0	-167.63	PVC	0.84	45	44	
2180	P-682	448	8.0	-173.03	PVC	0.24	50	49	
2207	P-692	407	8.0	-173.03	PVC	0.22	50	50	
2208	P-693	233	8.0	-173.03	PVC	0.13	50	50	
2213	P-696	482	6.0	-173.03	PVC	1.07	50	50	
3519	P-365(1)	51	6.0	-176.08	PVC	0.12	48	48	
3524	P-365(2)(1)	262	6.0	-176.08	PVC	0.60	48	48	
3525	P-365(2)(2)	732	6.0	-176.08	PVC	1.67	49	48	
2403	P-771	273	6.0	-182.89	PVC	0.67	50	50	
2327	P-730	131	8.0	-183.55	PVC	0.08	43	43	
3532	P-397	620	8.0	-183.55	PVC	0.38	44	43	
1452	P-248	387	10.0	-187.81	PVC	0.08	47	47	
1869	P-489	814	10.0	-187.81	PVC	0.17	47	47	
1939	P-528	62	8.0	-189.80	PVC	0.04	53	53	
3379	P-378(2)(1)	238	6.0	-190.18	PVC	0.63	48	48	
2111	P-638	386	6.0	-191.74	PVC	1.03	48	48	
1692	P-379	80	6.0	-192.26	PVC	0.21	50	50	
1693	P-380	469	6.0	-192.26	PVC	1.26	50	50	
2849	P-981	413	6.0	-192.26	PVC	1.11	51	50	
1393	P-218	543	6.0	-195.66	PVC	1.51	53	53	
2463	P-804	649	8.0	-199.32	PVC	0.46	49	49	
1852	P-475	168	6.0	-200.07	PVC	0.49	49	49	
121	P-12	1,396	12.0	-201.32	PVC	0.14	42	42	
3616	P-432	300	8.0	-201.32	PVC	0.22	85	42	
3618	P-433	483	8.0	-201.32	PVC	0.35	85	85	
3622	P-434	287	8.0	-201.32	PVC	0.21	42	85	
1623	P-345	222	8.0	-202.15	PVC	0.16	45	45	
2473	P-810	1,348	8.0	-204.53	PVC	1.00	49	49	
2296	P-715	1,339	8.0	-213.96	PVC	1.08	42	41	
1977	P-548	625	6.0	-215.69	PVC	2.08	46	45	
2975	P-231	32	10.0	-216.38	PVC	0.01	45	45	
1831	P-465	151	8.0	-216.57	PVC	0.12	45	45	
484	P-84	675	6.0	-219.30	PVC	2.31	51	50	
2121	P-642	914	8.0	-219.47	PVC	0.77	48	48	
1988	P-554	124	6.0	-220.98	PVC	0.43	45	44	

FlexTable: Pipe Table
Current Time: 19.00 hours

ID	Label	Length (Scaled) (ft)	Diameter (in)	Flow (gpm)	Material	Headloss (ft)	Pressure (Stop) (psi)	Pressure (Start) (psi)	Notes
1990	P-555	150	6.0	-220.98	PVC	0.56	44	44	
1704	P-387	353	6.0	-223.27	PVC	1.25	49	48	
1701	P-384	90	6.0	-223.27	PVC	0.32	49	49	
1702	P-385	330	6.0	-223.27	PVC	1.17	50	49	
1703	P-386	68	6.0	-223.27	PVC	0.24	48	48	
2407	P-774	119	6.0	-227.39	PVC	0.43	50	50	
1820	P-457	302	8.0	-227.95	PVC	0.27	45	45	
1486	P-268	361	6.0	-232.03	PVC	1.37	44	44	
1488	P-269	228	6.0	-232.03	PVC	0.87	44	43	
1631	P-349	570	6.0	-232.03	PVC	2.17	45	44	
1683	P-376	159	6.0	-232.86	PVC	0.61	48	48	
1684	P-377	505	6.0	-232.86	PVC	1.93	49	48	
1983	P-551	170	6.0	-235.24	PVC	0.66	43	43	
1984	P-552	95	6.0	-235.24	PVC	0.37	44	43	
2010	P-571	896	6.0	-235.24	PVC	3.50	44	42	
3224	P-890(1)	466	6.0	-235.24	PVC	1.82	44	44	
3506	P-381	591	8.0	-236.59	PVC	0.57	49	49	
3460	P-362	687	8.0	-237.31	PVC	0.65	50	50	
2475	P-811	416	8.0	-237.84	PVC	0.41	50	50	
3573	P-984(2)	54	8.0	-240.29	PVC	0.05	49	49	
3024	P-912(1)	81	6.0	-245.98	PVC	0.34	53	53	
1465	P-255	979	8.0	-246.39	PVC	1.03	47	47	
1466	P-256	104	6.0	-246.39	PVC	0.44	47	47	
1938	P-527	176	8.0	-248.63	PVC	0.19	53	53	
1936	P-526	229	8.0	-248.63	PVC	0.24	53	53	
1627	P-347	87	8.0	-249.51	PVC	0.09	45	45	
1629	P-348	516	8.0	-249.51	PVC	0.55	45	45	
1633	P-351	226	8.0	-249.51	PVC	0.24	45	45	
2214	P-697	455	6.0	-251.52	PVC	2.01	51	50	
3013	P-630(2)	472	8.0	-251.79	PVC	0.51	48	47	
2341	P-739	1,338	8.0	-267.51	PVC	1.63	49	49	
2342	P-740	29	8.0	-267.51	PVC	0.04	49	49	
1619	P-341	179	8.0	-279.58	PVC	0.24	45	45	
533	P-92	776	6.0	-290.55	PVC	4.48	51	49	
2416	P-780	35	10.0	-291.78	PVC	0.02	52	52	
3606	P-779(2)	618	10.0	-291.78	PVC	0.30	52	51	
3459	P-361	593	8.0	-292.04	PVC	0.85	50	49	
2179	P-681	624	8.0	-296.33	PVC	0.92	49	49	
1767	P-423	330	10.0	-297.41	PVC	0.16	47	47	
1870	P-490	307	10.0	-298.08	PVC	0.15	47	47	
1746	P-414	879	8.0	-298.86	PVC	1.32	47	47	
2043	P-592	753	8.0	-303.15	PVC	1.16	47	47	
3541	P-360(2)(2)	394	8.0	-304.73	PVC	0.61	45	44	
1708	P-390	158	10.0	-305.15	PVC	0.08	48	48	
1709	P-391	67	10.0	-305.15	PVC	0.04	48	48	
1712	P-392	69	10.0	-305.15	PVC	0.04	48	48	
2851	P-982	686	12.0	-309.51	PVC	0.15	53	53	
1524	P-286	520	8.0	-309.86	PVC	0.83	43	43	
3620	P-955(2)(1)	1,177	8.0	-314.19	PVC	1.93	42	41	
3023	P-533(2)	240	8.0	-315.01	Asbestos Cement	0.45	53	53	
1632	P-350	52	6.0	-323.76	PVC	0.37	45	45	
3025	P-912(2)	1,250	6.0	-325.07	PVC	8.87	57	53	
2350	P-744	208	8.0	-331.79	PVC	0.38	49	49	
2375	P-757	86	8.0	-331.79	PVC	0.16	49	49	
1769	P-424	54	10.0	-334.73	PVC	0.03	47	47	
961	P-157	290	8.0	-335.79	PVC	0.54	46	45	
1931	P-525	941	8.0	-343.51	PVC	1.05	51	50	
2390	P-762	243	8.0	-343.51	PVC	0.47	50	50	
596	P-99	1,258	6.0	-348.91	PVC	10.19	57	53	
1555	P-303	895	8.0	-349.98	PVC	1.79	47	47	
1245	P-196	1,317	8.0	-350.95	PVC	2.65	51	51	
2679	P-909	1,313	6.0	-350.95	PVC	10.74	57	53	
1442	P-243	60	6.0	-377.52	PVC	0.56	50	49	
3356	P-393(1)	346	10.0	-380.54	PVC	0.27	48	48	
1379	P-209	129	10.0	-389.31	PVC	0.11	55	55	
811	P-126	76	8.0	-392.80	PVC	0.19	53	53	
887	P-142	171	8.0	-392.80	PVC	0.42	52	52	
3022	P-533(1)	184	8.0	-394.10	Asbestos Cement	0.52	53	53	
2038	P-589	74	8.0	-408.01	PVC	0.20	47	46	
2039	P-590	75	8.0	-408.01	PVC	0.20	47	47	
2411	P-777	158	6.0	-426.65	PVC	1.86	51	50	
1004	P-163	376	8.0	-426.98	PVC	1.09	45	44	
2852	P-983	635	12.0	-436.75	PVC	0.27	53	53	
1942	P-529	247	8.0	-438.42	PVC	0.75	53	53	
3376	P-393(2)(1)	236	10.0	-447.86	PVC	0.25	48	48	
2169	P-674	1,364	10.0	-452.28	PVC	1.48	48	47	
2037	P-588	183	8.0	-462.15	PVC	0.61	46	46	
1770	P-425	651	10.0	-466.20	PVC	0.75	48	47	
1897	P-506	29	10.0	-474.30	PVC	0.03	50	50	
1899	P-507	367	10.0	-474.30	PVC	0.44	50	50	
1901	P-508	377	10.0	-474.30	PVC	0.45	50	50	
2093	P-624	39	8.0	-477.76	PVC	0.14	48	48	
2102	P-631	256	8.0	-477.76	PVC	0.91	48	48	
3377	P-393(2)(2)	218	10.0	-478.91	PVC	0.26	48	48	

FlexTable: Pipe Table

Current Time: 19.00 hours

ID	Label	Length (Scaled) (ft)	Diameter (in)	Flow (gpm)	Material	Headloss (ft)	Pressure (Stop) (psi)	Pressure (Start) (psi)	Notes
2398	P-767	259	8.0	-484.71	PVC	0.95	50	50	
1858	P-478	1,033	8.0	-491.81	PVC	3.89	51	50	
1697	P-381	480	8.0	-491.81	PVC	1.81	52	51	
2374	P-756	159	8.0	-497.73	PVC	0.61	49	49	
1403	P-222	41	10.0	-500.46	PVC	0.05	51	51	
2788	P-946	618	8.0	-504.81	PVC	2.44	54	53	
1887	P-501	690	10.0	-515.02	PVC	0.95	49	48	
3621	P-955(2)(2)	137	8.0	-515.50	PVC	0.56	43	42	
2045	P-593	419	8.0	-528.03	PVC	1.80	48	47	
3505	P-380	1,319	8.0	-535.40	PVC	5.81	56	53	
1445	P-244	24	10.0	-539.10	PVC	0.04	47	47	
2686	P-913	1,325	8.0	-544.17	PVC	6.02	56	53	
1895	P-505	395	10.0	-544.50	PVC	0.61	50	49	
1978	P-549	662	6.0	-551.49	PVC	12.51	51	46	
1953	P-535	38	6.0	-551.49	PVC	0.72	51	51	
3572	P-984(1)	204	8.0	-559.20	PVC	0.97	49	48	
1559	P-306	550	8.0	-560.68	PVC	2.64	49	47	
2170	P-675	538	10.0	-566.95	PVC	0.89	48	48	
2961	P-736(1)	64	6.0	-573.56	PVC	1.30	47	47	
54	P-2	80	10.0	-575.00	PVC	0.14	48	46	
110	P-10	326	12.0	-575.00	PVC	0.23	48	48	
1943	P-530	805	8.0	-575.42	PVC	4.05	52	51	
2861	P-987	1,201	8.0	-588.64	PVC	6.31	53	50	
2862	P-988	988	8.0	-589.42	PVC	5.20	55	53	
2397	P-766	190	8.0	-604.22	PVC	1.05	50	49	
1542	P-295	350	8.0	-606.74	PVC	1.95	43	43	
1944	P-531	193	8.0	-624.66	PVC	1.13	53	52	
2166	P-672	152	10.0	-626.45	PVC	0.30	49	49	
1893	P-504	155	10.0	-652.13	PVC	0.33	49	49	
2156	P-663	175	8.0	-656.17	PVC	1.12	44	43	
2165	P-671	639	10.0	-680.49	PVC	1.48	49	48	
1551	P-300	791	8.0	-707.59	PVC	5.84	46	44	
2789	P-947	649	8.0	-721.30	PVC	4.97	56	54	
1947	P-532	34	8.0	-743.01	PVC	0.28	53	53	
2957	P-776(2)	1,284	10.0	-743.01	PVC	3.50	53	51	
1399	P-221	346	10.0	-744.84	PVC	0.95	50	49	
1428	P-235	82	10.0	-744.84	PVC	0.23	49	49	
2675	P-908	1,352	8.0	-815.74	PVC	12.99	57	52	
1891	P-503	317	10.0	-824.04	PVC	1.05	49	49	
2086	P-617	45	10.0	-857.38	PVC	0.16	50	50	
1889	P-502	151	10.0	-922.07	PVC	0.61	49	49	
1552	P-301	56	8.0	-923.54	PVC	0.68	47	46	
1381	P-211	152	12.0	-978.73	PVC	0.28	56	55	
780	P-118	199	8.0	-1,004.93	PVC	2.82	39	38	Transfer Line
875	P-136	226	8.0	-1,004.93	PVC	3.20	40	39	Transfer Line
1388	P-215	2,392	8.0	-1,004.93	PVC	33.83	30	15	Transfer Line
2131	P-648	110	8.0	-1,004.93	PVC	1.56	2	1	Transfer Line
2132	P-649	217	8.0	-1,004.93	PVC	3.07	3	2	Transfer Line
2151	P-660	648	8.0	-1,004.93	PVC	9.17	37	33	Transfer Line
2152	P-661	80	8.0	-1,004.93	PVC	1.13	38	37	Transfer Line
2660	P-902	248	8.0	-1,004.93	PVC	3.50	31	30	Transfer Line
2661	P-903	336	8.0	-1,004.93	PVC	4.75	33	31	Transfer Line
1581	P-318	470	12.0	-1,030.34	PVC	0.97	48	48	
2085	P-616	26	10.0	-1,171.60	PVC	0.17	50	50	
104	P-9	130	12.0	-1,362.92	PVC	0.45	48	48	
2722	P-927	73	14.0	-2,586.01	PVC	0.39	57	58	
3547	P-404	2,675	12.0	(N/A)	Ductile Iron	(N/A)	(N/A)	(N/A)	
3548	P-405	2,571	12.0	(N/A)	Ductile Iron	(N/A)	(N/A)	(N/A)	
3549	P-406	2,714	8.0	(N/A)	PVC	(N/A)	(N/A)	(N/A)	
3550	P-407	1,139	8.0	(N/A)	PVC	(N/A)	(N/A)	(N/A)	
3551	P-408	1,134	8.0	(N/A)	PVC	(N/A)	(N/A)	(N/A)	
3552	P-409	315	8.0	(N/A)	PVC	(N/A)	(N/A)	(N/A)	
3553	P-410	149	8.0	(N/A)	PVC	(N/A)	(N/A)	(N/A)	
3554	P-411	2,265	8.0	(N/A)	PVC	(N/A)	(N/A)	(N/A)	
3598	P-423	1,568	8.0	(N/A)	PVC	(N/A)	(N/A)	(N/A)	
3599	P-424	60	8.0	(N/A)	PVC	(N/A)	(N/A)	(N/A)	
3603	P-425	67	6.0	(N/A)	PVC	(N/A)	(N/A)	(N/A)	
3609	P-428	1,210	10.0	(N/A)	PVC	(N/A)	(N/A)	(N/A)	

**Scenario: 2032
Tank Cycling Analysis**

Tank Table - Time: 0.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	-1,092.30	223.50	98.6	Filling
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	-1,152.79	215.25	99.1	Filling
1356	Tank No. 3 - 9th Street	102.00	186.00	220.25	220.37	-3,361.05	220.25	99.7	Filling
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	-287.43	98.50	92.3	Filling
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	-3,041.69	111.50	96.9	Filling

Tank Table - Time: 1.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	276.88	216.58	71.1	Emptying
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	565.14	214.53	95.5	Emptying
1356	Tank No. 3 - 9th Street	102.00	186.00	220.25	220.37	1,018.68	215.17	84.9	Emptying
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	775.55	98.05	85.4	Emptying
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	-0.05	112.00	100.0	Filling

Tank Table - Time: 2.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	318.74	217.41	74.4	Emptying
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	554.94	215.10	98.4	Emptying
1356	Tank No. 3 - 9th Street	102.00	186.00	220.25	220.37	994.16	215.68	86.4	Emptying
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	-237.00	97.84	82.2	Filling
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	-10,927.80	111.47	96.7	Filling

Tank Table - Time: 3.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	673.06	218.62	79.2	Emptying
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	909.76	215.22	99.0	Emptying
1356	Tank No. 3 - 9th Street	102.00	186.00	220.25	220.37	1,603.82	216.70	89.3	Emptying
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	-236.39	98.50	92.4	Filling
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	-8,193.28	111.67	98.0	Filling

Tank Table - Time: 4.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	1,334.89	219.60	83.1	Emptying
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	1,696.60	214.64	96.1	Emptying
1356	Tank No. 3 - 9th Street	102.00	186.00	220.25	220.37	2,787.23	217.91	92.8	Emptying
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	771.88	98.52	92.6	Emptying
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	-2.72	112.00	100.0	Filling

Tank Table - Time: 5.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	999.88	223.84	100.0	Emptying
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	666.97	215.41	99.9	Emptying
1356	Tank No. 3 - 9th Street	102.00	186.00	220.25	220.37	0.00	220.37	100.0	Full

Tank Table - Time: 5.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	-1,004.48	98.09	86.1	Filling
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	-4,311.18	111.39	96.2	Filling

Tank Table - Time: 6.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	655.78	217.55	74.9	Emptying
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	1,359.14	212.28	84.4	Emptying
1356	Tank No. 3 - 9th Street	102.00	186.00	220.25	220.37	0.00	220.37	100.0	Full
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	774.45	98.41	90.9	Emptying
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	-10,753.64	110.81	92.5	Filling

Tank Table - Time: 7.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	-657.09	211.55	51.0	Filling
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	165.64	206.76	57.1	Emptying
1356	Tank No. 3 - 9th Street	102.00	186.00	220.25	220.37	0.00	220.37	100.0	Full
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	-195.86	97.66	79.4	Filling
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	-22,017.22	108.97	81.1	Filling

Tank Table - Time: 8.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	-1,361.96	217.72	75.6	Filling
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	-1,236.92	206.39	55.2	Filling
1356	Tank No. 3 - 9th Street	102.00	186.00	220.25	220.37	0.00	220.37	100.0	Full
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	-234.32	98.22	87.9	Filling
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	-40,108.54	104.97	55.1	Filling

Tank Table - Time: 9.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	0.00	223.84	100.0	Full
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	-1,665.99	212.63	86.1	Filling
1356	Tank No. 3 - 9th Street	102.00	186.00	220.25	220.37	0.00	220.37	100.0	Full
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	0.00	99.00	100.0	Filling
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	-14,461.71	110.44	90.2	Filling

Tank Table - Time: 10.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	-942.43	221.28	89.8	Filling
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	-942.87	215.20	98.9	Filling
1356	Tank No. 3 - 9th Street	102.00	186.00	220.25	220.37	0.00	220.37	100.0	Full
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	0.00	99.00	100.0	Filling
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	-4,251.25	111.51	97.0	Filling

Tank Table - Time: 11.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	25.96	217.87	76.2	Emptying
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	-9.62	214.42	95.0	Filling

Tank Table - Time: 11.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1356	Tank No. 3 - 9th Street	102.00	186.00	220.25	220.37	-2,465.58	219.08	96.2	Filling
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	0.00	99.00	100.0	Filling
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	-3,755.55	111.51	96.9	Filling

Tank Table - Time: 12.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	-1,013.89	219.80	83.9	Filling
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	-887.27	215.07	98.2	Filling
1356	Tank No. 3 - 9th Street	102.00	186.00	220.25	220.37	0.00	220.37	100.0	Full
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	0.00	99.00	100.0	Filling
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	-4,792.47	111.47	96.7	Filling

Tank Table - Time: 13.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	19.71	217.66	75.4	Emptying
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	19.33	214.42	95.0	Emptying
1356	Tank No. 3 - 9th Street	102.00	186.00	220.25	220.37	-2,504.79	218.54	94.7	Filling
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	0.00	99.00	100.0	Filling
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	3,011.81	111.90	99.4	Emptying

Tank Table - Time: 14.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	-1,045.03	219.12	81.2	Filling
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	-871.42	214.87	97.2	Filling
1356	Tank No. 3 - 9th Street	102.00	186.00	220.25	220.37	0.00	220.37	100.0	Full
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	0.00	99.00	100.0	Filling
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	551.08	111.82	98.9	Emptying

Tank Table - Time: 15.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	1,511.58	218.32	78.0	Emptying
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	1,322.74	214.64	96.1	Emptying
1356	Tank No. 3 - 9th Street	102.00	186.00	220.25	220.37	2,438.16	218.83	95.5	Emptying
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	0.00	99.00	100.0	Filling
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	-8.12	112.00	100.0	Filling

Tank Table - Time: 16.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	-1,064.76	218.57	79.0	Filling
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	-856.05	214.70	96.4	Filling
1356	Tank No. 3 - 9th Street	102.00	186.00	220.25	220.37	0.00	220.37	100.0	Full
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	0.00	99.00	100.0	Filling
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	-1,971.82	111.68	98.0	Filling

Tank Table - Time: 17.00 hours

Tank Table - Time: 17.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	1,862.48	219.12	81.2	Emptying
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	1,763.30	214.91	97.4	Emptying
1356	Tank No. 3 - 9th Street	102.00	186.00	220.25	220.37	2,964.82	219.34	97.0	Emptying
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	0.00	99.00	100.0	Filling
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	-3.73	112.00	100.0	Filling

Tank Table - Time: 18.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	1,003.30	223.84	100.0	Emptying
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	664.65	215.36	99.6	Emptying
1356	Tank No. 3 - 9th Street	102.00	186.00	220.25	220.37	0.00	220.37	100.0	Full
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	0.00	97.69	79.8	Filling
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	-6,177.21	111.31	95.7	Filling

Tank Table - Time: 19.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	655.49	217.53	74.8	Emptying
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	1,362.92	212.33	84.7	Emptying
1356	Tank No. 3 - 9th Street	102.00	186.00	220.25	220.37	0.00	220.37	100.0	Full
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	-236.77	97.50	76.9	Filling
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	-8,459.44	110.96	93.5	Filling

Tank Table - Time: 20.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	-637.54	211.27	49.9	Filling
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	219.94	206.80	57.2	Emptying
1356	Tank No. 3 - 9th Street	102.00	186.00	220.25	220.37	0.00	220.37	100.0	Full
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	-177.36	98.12	86.5	Filling
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	-40,519.93	104.75	54.7	Filling

Tank Table - Time: 21.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	-1,923.55	217.46	74.6	Filling
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	-1,763.56	206.37	55.1	Filling
1356	Tank No. 3 - 9th Street	102.00	186.00	220.25	220.37	0.00	220.37	100.0	Full
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	-243.44	98.66	94.7	Filling
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	-39,116.77	105.30	58.1	Filling

Tank Table - Time: 22.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	1,310.67	223.11	97.1	Emptying
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	-77.07	215.33	99.5	Filling
1356	Tank No. 3 - 9th Street	102.00	186.00	220.25	220.37	1,402.65	220.02	99.0	Emptying
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	0.00	99.00	100.0	Filling
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	-21,567.70	110.42	90.1	Filling

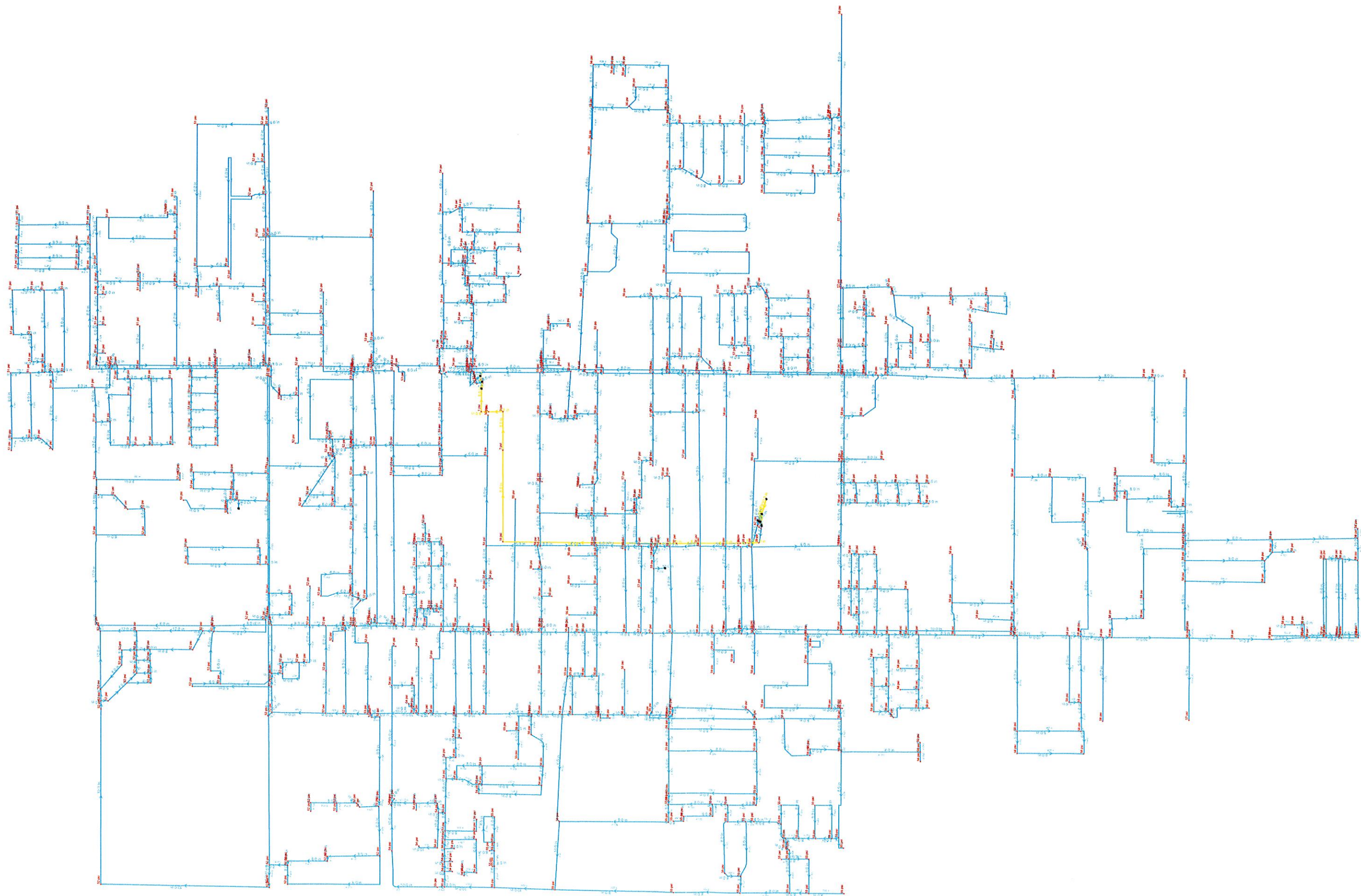
Tank Table - Time: 23.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	-1,431.61	216.73	71.6	Filling
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	-848.23	214.49	95.3	Filling
1356	Tank No. 3 - 9th Street	102.00	186.00	220.25	220.37	-3,475.51	215.09	84.6	Filling
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	754.72	97.85	82.3	Emptying
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	1,613.32	111.85	99.1	Emptying

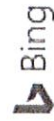
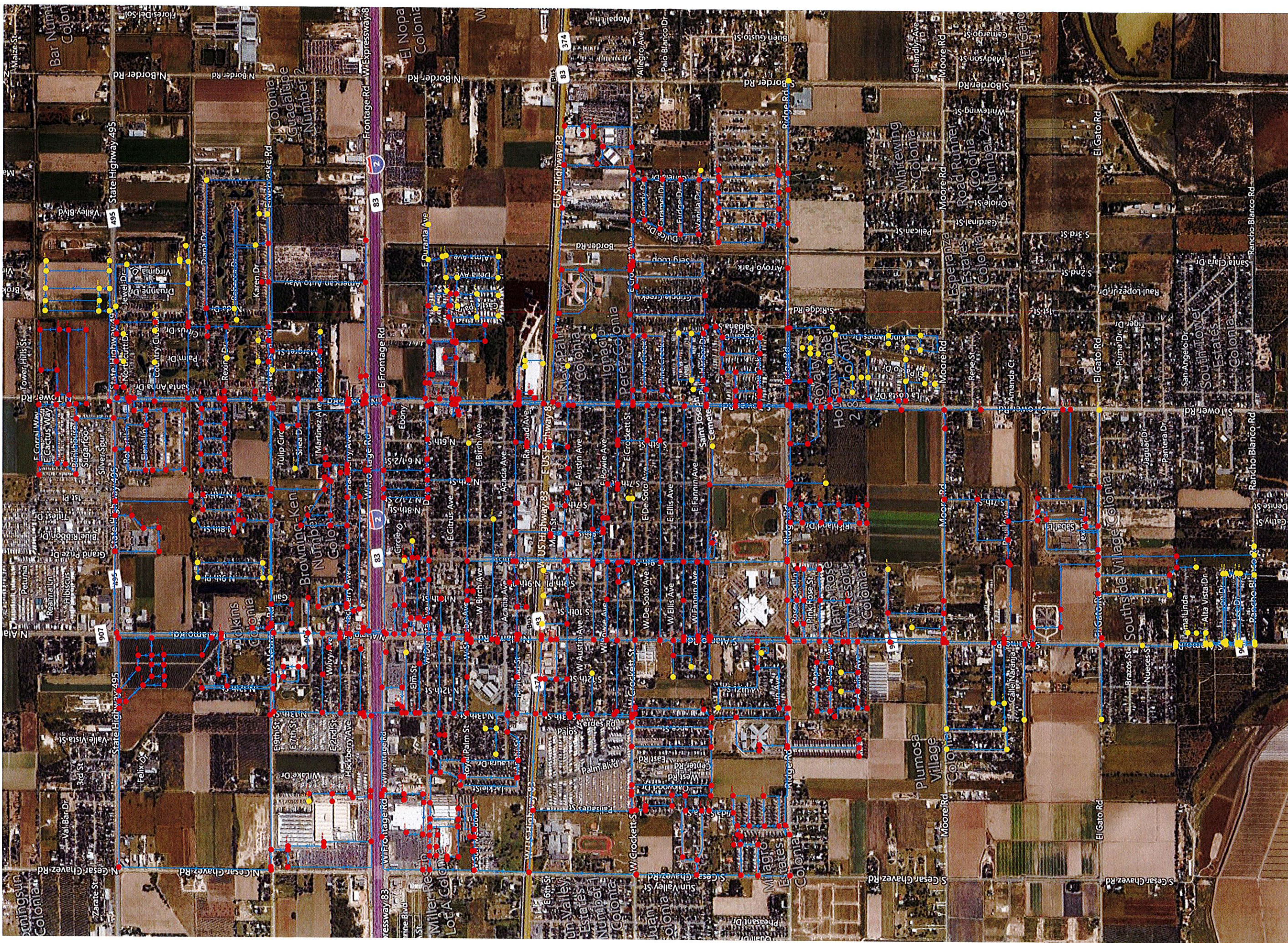
Tank Table - Time: 24.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	287.61	216.85	72.1	Emptying
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	633.16	215.03	98.0	Emptying
1356	Tank No. 3 - 9th Street	102.00	186.00	220.25	220.37	942.75	215.06	84.6	Emptying
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	-232.18	97.91	83.3	Filling
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	-12,188.73	111.36	96.0	Filling

Scenario: 2037 CIP Peak Flow @ 1.5 gpm - 7570 Connections



Scenario: Fire Flow Analysis 2037 CIP @ 2 Hr Peak



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Scenario: 2037
Fire Flow Analysis
@ Daily Average 1500 gpm

Fire Flow Results Table

Label	Is Fire Flow Run Balanced?	Satisfies Fire Flow Constraints?	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Fire Flow Status	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Residual) (psi)
J-1	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	25
J-2	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	40	21
J-3	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	34
J-4	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	44	34
J-5	True	True	1,500.00	3,317.85	1,500.00	3,317.85	Passed	39	20
J-6	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	24
J-7	True	True	1,500.00	2,991.38	1,500.00	2,991.38	Passed	38	20
J-8	True	True	1,500.00	2,697.46	1,607.24	2,804.70	Passed	36	20
J-9	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	51	48
J-10	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	24
J-11	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	25
J-12	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	40	22
J-13	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	46	40
J-14	True	True	1,500.00	2,500.23	1,500.00	2,500.23	Passed	32	21
J-15	True	True	1,500.00	2,718.16	1,500.00	2,718.16	Passed	33	20
J-16	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	23
J-17	True	True	1,500.00	3,374.85	1,500.00	3,374.85	Passed	39	20
J-18	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	40	22
J-19	True	True	1,500.00	2,662.51	1,569.74	2,732.25	Passed	35	20
J-20	True	True	1,500.00	2,522.11	1,500.00	2,522.11	Passed	34	20
J-21	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	45	35
J-22	True	True	1,500.00	2,848.86	1,500.00	2,848.86	Passed	38	20
J-23	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	39	25
J-24	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	44	34
J-25	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	31
J-26	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	29
J-27	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	31
J-28	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	44	37
J-29	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	49	48
J-30	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	46	40
J-31	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	46	39
J-32	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	33
J-33	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	31
J-34	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	33
J-35	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	47	43
J-36	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	49	47
J-37	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	52	50
J-38	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	49	45
J-39	True	True	1,500.00	1,643.95	1,500.00	1,643.95	Passed	24	22
J-40	True	True	1,500.00	1,653.47	1,500.00	1,653.47	Passed	24	21
J-41	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	48	42
J-42	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	48	41
J-43	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	49	45
J-44	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	47	41
J-45	True	True	1,500.00	3,499.99	1,568.24	3,568.23	Passed	41	28
J-46	True	True	1,500.00	3,328.60	1,500.00	3,328.60	Passed	37	20
J-48	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	52	50
J-50	True	True	1,500.00	3,147.46	1,500.00	3,147.46	Passed	39	20
J-51	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	52	50
J-52	True	True	1,500.00	2,518.09	1,500.00	2,518.09	Passed	36	20
J-53	True	True	1,500.00	2,999.99	1,500.00	2,999.99	Passed	39	20
J-54	True	True	1,500.00	2,329.24	1,500.00	2,329.24	Passed	35	20
J-55	True	True	1,500.00	2,666.15	1,500.00	2,666.15	Passed	37	20
J-56	True	True	1,500.00	1,821.15	1,500.00	1,821.15	Passed	27	20
J-57	True	True	1,500.00	1,593.91	1,500.00	1,593.91	Passed	23	20
J-58	True	True	1,500.00	1,529.35	1,588.49	1,617.84	Passed	21	20
J-59	True	True	1,500.00	1,744.02	1,500.00	1,744.02	Passed	27	20
J-60	True	True	1,500.00	1,669.77	1,500.00	1,669.77	Passed	25	20
J-61	True	True	1,500.00	3,269.61	1,500.00	3,269.61	Passed	40	20
J-62	True	True	1,500.00	2,829.99	1,500.00	2,829.99	Passed	38	20
J-63	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	30
J-64	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	31
J-65	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	24
J-65	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	44	36
J-67	True	True	1,500.00	2,792.19	1,500.00	2,792.19	Passed	38	20
J-68	True	True	1,500.00	2,667.84	1,500.00	2,667.84	Passed	38	20
J-69	True	True	1,500.00	2,347.88	1,500.00	2,347.88	Passed	33	24
J-70	True	True	1,500.00	3,105.52	1,500.00	3,105.52	Passed	37	20
J-71	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	31
J-72	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	44	33
J-73	True	True	1,500.00	2,394.11	1,500.00	2,394.11	Passed	35	20
J-74	True	True	1,500.00	1,938.67	1,500.00	1,938.67	Passed	30	20
J-75	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	25
J-76	True	True	1,500.00	2,312.54	1,500.00	2,312.54	Passed	34	20
J-81	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	32
J-82	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	32
J-83	True	True	1,500.00	2,324.34	1,500.00	2,324.34	Passed	34	20
J-84	True	True	1,500.00	3,439.66	1,500.00	3,439.66	Passed	40	20
J-87	True	True	1,500.00	2,999.64	1,500.00	2,999.64	Passed	38	20
J-89	True	True	1,500.00	3,404.31	1,500.00	3,404.31	Passed	41	20
J-90	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	47	42
J-91	True	True	1,500.00	2,846.56	1,500.00	2,846.56	Passed	38	20
J-92	True	True	1,500.00	2,067.36	1,500.00	2,067.36	Passed	32	20

Fire Flow Node FlexTable: Fire Flow Results Table

Label	Is Fire Flow Run Balanced?	Satisfies Fire Flow Constraints?	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Fire Flow Status	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Residual) (psi)
J-93	True	True	1,500.00	1,555.01	1,500.00	1,555.01	Passed	21	20
J-94	True	True	1,500.00	1,582.64	1,500.00	1,582.64	Passed	22	20
J-95	True	True	1,500.00	3,377.21	1,500.00	3,377.21	Passed	40	20
J-96	True	True	1,500.00	2,246.28	1,500.00	2,246.28	Passed	34	20
J-99	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	45	26
J-107	True	True	1,500.00	1,532.30	1,624.49	1,656.79	Passed	21	20
J-110	True	True	1,500.00	1,576.17	1,500.00	1,576.17	Passed	22	20
J-111	True	True	1,500.00	1,940.87	1,624.49	2,065.36	Passed	28	20
J-113	True	True	1,500.00	1,590.76	1,500.00	1,590.76	Passed	22	20
J-114	True	True	1,500.00	2,390.44	1,500.00	2,390.44	Passed	32	20
J-115	True	True	1,500.00	2,866.70	1,500.00	2,866.70	Passed	38	20
J-116	True	True	1,500.00	2,210.67	1,500.00	2,210.67	Passed	33	20
J-119	True	True	1,500.00	1,908.11	1,500.00	1,908.11	Passed	28	20
J-121	True	True	1,500.00	1,933.65	1,500.00	1,933.65	Passed	28	20
J-123	True	True	1,500.00	2,260.54	1,500.00	2,260.54	Passed	34	20
J-126	True	True	1,500.00	1,868.45	1,500.00	1,868.45	Passed	29	20
J-127	True	True	1,500.00	2,594.12	1,500.00	2,594.12	Passed	37	20
J-128	True	True	1,500.00	3,300.74	1,500.00	3,300.74	Passed	39	20
J-129	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	22
J-130	True	True	1,500.00	2,034.74	1,500.00	2,034.74	Passed	32	20
J-133	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	31
J-134	True	True	1,500.00	2,922.12	1,500.00	2,922.12	Passed	38	20
J-135	True	True	1,500.00	1,596.67	1,500.00	1,596.67	Passed	22	20
J-137	True	True	1,500.00	1,688.87	1,615.49	1,804.36	Passed	25	20
J-138	True	True	1,500.00	1,768.18	1,500.00	1,768.18	Passed	25	20
J-140	True	True	1,500.00	2,740.67	1,500.00	2,740.67	Passed	38	20
J-141	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	47	43
J-142	True	True	1,500.00	2,356.85	1,500.00	2,356.85	Passed	36	20
J-145	True	True	1,500.00	2,945.69	1,500.00	2,945.69	Passed	35	20
J-146	True	True	1,500.00	3,499.99	1,761.74	3,761.73	Passed	44	32
J-147	True	True	1,500.00	3,196.94	1,500.00	3,196.94	Passed	40	20
J-148	True	True	1,500.00	3,180.94	1,500.00	3,180.94	Passed	39	20
J-149	True	True	1,500.00	1,690.18	1,500.00	1,690.18	Passed	25	20
J-151	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	46	39
J-152	True	True	1,500.00	2,025.10	1,500.00	2,025.10	Passed	32	20
J-153	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	25
J-154	True	True	1,500.00	1,786.78	1,500.00	1,786.78	Passed	27	20
J-155	True	True	1,500.00	2,159.46	1,500.00	2,159.46	Passed	32	20
J-156	True	True	1,500.00	2,248.85	1,500.00	2,248.85	Passed	33	20
J-157	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	45	39
J-158	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	24
J-159	True	True	1,500.00	1,554.57	1,500.00	1,554.57	Passed	22	20
J-161	True	True	1,500.00	2,743.20	1,500.00	2,743.20	Passed	37	20
J-162	True	True	1,500.00	2,755.14	1,500.00	2,755.14	Passed	37	20
J-165	True	True	1,500.00	1,845.63	1,500.00	1,845.63	Passed	28	20
J-167	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	25
J-168	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	34
J-169	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	44	36
J-170	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	45	37
J-171	True	True	1,500.00	2,636.60	1,500.00	2,636.60	Passed	36	20
J-172	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	35
J-173	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	50	47
J-174	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	47	43
J-175	True	True	1,500.00	2,603.86	1,562.24	2,666.10	Passed	36	20
J-176	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	35
J-177	True	True	1,500.00	1,544.21	1,500.00	1,544.21	Passed	21	20
J-178	True	True	1,500.00	1,855.47	1,500.00	1,855.47	Passed	28	20
J-179	True	True	1,500.00	3,293.08	1,500.00	3,293.08	Passed	41	20
J-180	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	23
J-181	True	True	1,500.00	3,499.99	1,631.24	3,631.23	Passed	41	24
J-182	True	True	1,500.00	2,023.43	1,500.00	2,023.43	Passed	29	21
J-184	True	True	1,500.00	2,335.88	1,500.00	2,335.88	Passed	35	21
J-185	True	True	1,500.00	1,733.05	1,500.00	1,733.05	Passed	26	20
J-186	True	True	1,500.00	2,089.41	1,500.00	2,089.41	Passed	33	20
J-188	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	40	21
J-189	True	True	1,500.00	2,981.37	1,500.00	2,981.37	Passed	38	20
J-190	True	True	1,500.00	2,758.05	1,500.00	2,758.05	Passed	37	20
J-191	True	True	1,500.00	2,595.66	1,500.00	2,595.66	Passed	36	20
J-192	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	44	37
J-193	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	44	36
J-194	True	True	1,500.00	2,778.98	1,500.00	2,778.98	Passed	39	20
J-196	True	True	1,500.00	2,072.87	1,500.00	2,072.87	Passed	33	20
J-198	True	True	1,500.00	1,928.86	1,500.00	1,928.86	Passed	27	20
J-199	True	True	1,500.00	1,936.12	1,500.00	1,936.12	Passed	28	20
J-200	True	True	1,500.00	2,002.97	1,500.00	2,002.97	Passed	28	20
J-201	True	True	1,500.00	1,999.37	1,500.00	1,999.37	Passed	28	20
J-202	True	True	1,500.00	3,066.39	1,500.00	3,066.39	Passed	38	20
J-203	True	True	1,500.00	2,573.01	1,500.00	2,573.01	Passed	36	20
J-204	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	31
J-205	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	24
J-206	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	34
J-207	True	True	1,500.00	2,877.63	1,500.00	2,877.63	Passed	38	20
J-208	True	True	1,500.00	2,628.59	1,500.00	2,628.59	Passed	36	20

Fire Flow Node FlexTable: Fire Flow Results Table

Label	Is Fire Flow Run Balanced?	Satisfies Fire Flow Constraints?	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Fire Flow Status	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Residual) (psi)
J-209	True	True	1,500.00	1,532.97	1,500.00	1,532.97	Passed	21	20
J-210	True	True	1,500.00	1,942.39	1,500.00	1,942.39	Passed	31	20
J-214	True	True	1,500.00	2,207.33	1,500.00	2,207.33	Passed	30	20
J-216	True	True	1,500.00	1,696.04	1,500.00	1,696.04	Passed	26	20
J-217	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	26
J-218	True	True	1,500.00	2,469.12	1,500.00	2,469.12	Passed	35	20
J-219	True	True	1,500.00	2,502.25	1,562.24	2,564.49	Passed	33	20
J-220	True	True	1,500.00	1,604.60	1,500.00	1,604.60	Passed	22	20
J-221	True	True	1,500.00	2,441.78	1,500.00	2,441.78	Passed	35	20
J-222	True	True	1,500.00	3,489.92	1,500.00	3,489.92	Passed	38	20
J-225	True	True	1,500.00	1,719.96	1,500.00	1,719.96	Passed	25	20
J-228	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	39	25
J-229	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	34
J-230	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	30
J-232	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	47	38
J-234	True	True	1,500.00	1,848.41	1,500.00	1,848.41	Passed	26	20
J-235	True	True	1,500.00	1,865.69	1,500.00	1,865.69	Passed	27	20
J-236	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	30
J-237	True	True	1,500.00	2,456.12	1,500.00	2,456.12	Passed	32	20
J-239	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	26
J-240	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	44	33
J-241	True	True	1,500.00	3,408.94	1,500.00	3,408.94	Passed	40	20
J-243	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	34
J-244	True	True	1,500.00	3,247.79	1,500.00	3,247.79	Passed	42	20
J-246	True	True	1,500.00	1,898.04	1,500.00	1,898.04	Passed	27	20
J-247	True	True	1,500.00	2,253.72	1,500.00	2,253.72	Passed	33	20
J-248	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	27
J-249	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	44	36
J-251	True	True	1,500.00	1,883.49	1,500.00	1,883.49	Passed	28	20
J-253	True	True	1,500.00	3,188.05	1,500.00	3,188.05	Passed	39	20
J-254	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	24
J-257	True	True	1,500.00	1,854.36	1,500.00	1,854.36	Passed	26	20
J-259	True	True	1,500.00	2,135.10	1,500.00	2,135.10	Passed	31	20
J-260	True	True	1,500.00	2,519.23	1,500.00	2,519.23	Passed	37	20
J-261	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	22
J-262	True	True	1,500.00	2,530.69	1,500.00	2,530.69	Passed	35	20
J-263	True	True	1,500.00	2,325.35	1,500.00	2,325.35	Passed	20	34
J-267	True	True	1,500.00	1,851.64	1,500.00	1,851.64	Passed	27	20
J-268	True	True	1,500.00	2,617.23	1,500.00	2,617.23	Passed	34	20
J-269	True	True	1,500.00	2,198.22	1,500.00	2,198.22	Passed	31	20
J-270	True	True	1,500.00	2,647.80	1,500.00	2,647.80	Passed	37	20
J-271	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	44	31
J-274	True	True	1,500.00	1,808.16	1,500.00	1,808.16	Passed	27	20
J-275	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	22
J-276	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	40	20
J-277	True	True	1,500.00	2,066.46	1,500.00	2,066.46	Passed	29	20
J-278	True	True	1,500.00	1,598.94	1,500.00	1,598.94	Passed	22	20
J-279	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	35
J-281	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	25
J-282	True	True	1,500.00	2,261.61	1,500.00	2,261.61	Passed	33	20
J-286	True	True	1,500.00	1,952.49	1,500.00	1,952.49	Passed	29	24
J-287	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	46	33
J-288	True	True	1,500.00	1,515.97	1,500.00	1,515.97	Passed	21	20
J-289	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	35
J-294	True	True	1,500.00	2,697.70	1,500.00	2,697.70	Passed	34	20
J-296	True	True	1,500.00	3,353.99	1,500.00	3,353.99	Passed	36	21
J-297	True	True	1,500.00	3,141.00	1,500.00	3,141.00	Passed	39	20
J-299	True	True	1,500.00	3,399.18	1,500.00	3,399.18	Passed	40	20
J-300	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	46	40
J-301	True	True	1,500.00	2,666.65	1,500.00	2,666.65	Passed	36	20
J-303	True	True	1,500.00	1,607.86	1,500.00	1,607.86	Passed	23	20
J-304	True	True	1,500.00	2,155.61	1,500.00	2,155.61	Passed	30	20
J-305	True	True	1,500.00	2,618.82	1,500.00	2,618.82	Passed	33	21
J-307	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	30
J-309	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	35
J-310	True	True	1,500.00	3,290.69	1,500.00	3,290.69	Passed	40	20
J-311	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	53	50
J-314	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	40	24
J-315	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	32
J-316	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	33
J-317	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	34
J-318	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	34
J-319	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	29
J-320	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	35
J-321	True	True	1,500.00	2,417.46	1,500.00	2,417.46	Passed	32	20
J-323	True	True	1,500.00	3,499.99	1,569.74	3,569.73	Passed	45	36
J-325	True	True	1,500.00	1,514.71	1,500.00	1,514.71	Passed	21	21
J-327	True	True	1,500.00	3,499.99	1,644.74	3,644.73	Passed	41	24
J-329	True	True	1,500.00	1,902.62	1,500.00	1,902.62	Passed	29	24
J-331	True	True	1,500.00	2,301.83	1,500.00	2,301.83	Passed	32	24
J-333	True	True	1,500.00	1,617.80	1,500.00	1,617.80	Passed	23	20
J-334	True	True	1,500.00	3,451.46	1,500.00	3,451.46	Passed	38	20
J-335	True	True	1,500.00	2,910.81	1,500.00	2,910.81	Passed	38	20

Fire Flow Node FlexTable: Fire Flow Results Table

Label	Is Fire Flow Run Balanced?	Satisfies Fire Flow Constraints?	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Fire Flow Status	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Residual) (psi)
J-336	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	44	37
J-338	True	True	1,500.00	3,190.36	1,500.00	3,190.36	Passed	35	21
J-340	True	True	1,500.00	3,488.42	1,637.24	3,625.66	Passed	41	20
J-341	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	25
J-342	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	44	36
J-343	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	35
J-344	True	True	1,500.00	3,095.34	1,500.00	3,095.34	Passed	37	20
J-345	True	True	1,500.00	2,044.47	1,500.00	2,044.47	Passed	31	20
J-346	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	30
J-347	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	44	36
J-348	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	52	50
J-349	True	True	1,500.00	2,806.19	1,500.00	2,806.19	Passed	35	20
J-351	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	28
J-352	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	25
J-353	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	24
J-355	True	True	1,500.00	2,571.50	1,761.74	2,833.24	Passed	35	20
J-357	True	True	1,500.00	2,617.27	1,500.00	2,617.27	Passed	37	20
J-359	True	True	1,500.00	3,202.27	1,500.00	3,202.27	Passed	39	20
J-360	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	35
J-361	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	46	39
J-362	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	26
J-363	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	48	40
J-364	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	27
J-365	True	True	1,500.00	3,412.27	1,500.00	3,412.27	Passed	36	22
J-366	True	True	1,500.00	3,461.71	1,500.00	3,461.71	Passed	38	20
J-367	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	31
J-368	True	True	1,500.00	2,662.46	1,500.00	2,662.46	Passed	36	20
J-369	True	True	1,500.00	2,832.59	1,500.00	2,832.59	Passed	37	20
J-370	True	True	1,500.00	2,574.97	1,500.00	2,574.97	Passed	36	20
J-371	True	True	1,500.00	2,515.27	1,500.00	2,515.27	Passed	36	20
J-372	True	True	1,500.00	1,885.84	1,500.00	1,885.84	Passed	27	20
J-373	True	True	1,500.00	1,759.32	1,500.00	1,759.32	Passed	25	20
J-374	True	True	1,500.00	2,307.95	1,500.00	2,307.95	Passed	30	20
J-375	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	29
J-378	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	45	30
J-379	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	44	28
J-380	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	32
J-381	True	True	1,500.00	2,051.30	1,500.00	2,051.30	Passed	29	20
J-382	True	True	1,500.00	2,014.06	1,500.00	2,014.06	Passed	28	20
J-383	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	35
J-384	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	32
J-386	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	33
J-387	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	32
J-388	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	23
J-389	True	True	1,500.00	2,659.97	1,500.00	2,659.97	Passed	20	34
J-390	True	True	1,500.00	2,641.72	1,500.00	2,641.72	Passed	34	20
J-391	True	True	1,500.00	1,861.07	1,500.00	1,861.07	Passed	27	20
J-392	True	True	1,500.00	1,715.00	1,500.00	1,715.00	Passed	24	20
J-393	True	True	1,500.00	2,070.06	1,500.00	2,070.06	Passed	29	20
J-394	True	True	1,500.00	2,714.80	1,500.00	2,714.80	Passed	35	20
J-395	True	True	1,500.00	2,710.44	1,500.00	2,710.44	Passed	35	20
J-396	True	True	1,500.00	2,994.05	1,500.00	2,994.05	Passed	36	20
J-397	True	True	1,500.00	2,998.47	1,500.00	2,998.47	Passed	36	20
J-398	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	28
J-399	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	27
J-404	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	25
J-405	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	24
J-406	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	27
J-408	True	True	1,500.00	2,350.89	1,500.00	2,350.89	Passed	34	20
J-409	True	True	1,500.00	2,392.64	1,500.00	2,392.64	Passed	34	20
J-410	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	20
J-411	True	True	1,500.00	3,041.96	1,542.74	3,084.70	Passed	40	20
J-412	True	True	1,500.00	3,122.07	1,500.00	3,122.07	Passed	40	20
J-413	True	True	1,500.00	2,171.71	1,500.00	2,171.71	Passed	32	20
J-414	True	True	1,500.00	2,175.00	1,500.00	2,175.00	Passed	32	20
J-415	True	True	1,500.00	2,120.94	1,500.00	2,120.94	Passed	32	20
J-416	True	True	1,500.00	2,208.16	1,500.00	2,208.16	Passed	33	20
J-417	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	46	33
J-418	True	True	1,500.00	3,499.99	1,658.24	3,658.23	Passed	46	36
J-419	True	True	1,500.00	2,009.79	1,500.00	2,009.79	Passed	30	20
J-420	True	True	1,500.00	2,091.55	1,500.00	2,091.55	Passed	31	20
J-421	True	True	1,500.00	2,040.19	1,500.00	2,040.19	Passed	29	20
J-422	True	True	1,500.00	2,015.51	1,500.00	2,015.51	Passed	29	20
J-423	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	32
J-424	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	24
J-425	True	True	1,500.00	2,851.21	1,500.00	2,851.21	Passed	37	20
J-426	True	True	1,500.00	1,574.72	1,500.00	1,574.72	Passed	22	20
J-427	True	True	1,500.00	1,522.92	1,500.00	1,522.92	Passed	21	20
J-428	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	28
J-429	True	True	1,500.00	1,996.14	1,500.00	1,996.14	Passed	29	20
J-430	True	True	1,500.00	2,898.23	1,500.00	2,898.23	Passed	36	20
J-431	True	True	1,500.00	2,066.58	1,500.00	2,066.58	Passed	30	20
J-432	True	True	1,500.00	3,082.29	1,500.00	3,082.29	Passed	37	20

Fire Flow Node FlexTable: Fire Flow Results Table

Label	Is Fire Flow Run Balanced?	Satisfies Fire Flow Constraints?	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Fire Flow Status	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Residual) (psi)
J-433	True	True	1,500.00	2,506.34	1,500.00	2,506.34	Passed	35	20
J-434	True	True	1,500.00	1,550.60	1,500.00	1,550.60	Passed	21	20
J-436	True	True	1,500.00	1,767.85	1,500.00	1,767.85	Passed	27	20
J-437	True	True	1,500.00	1,687.92	1,500.00	1,687.92	Passed	25	20
J-438	True	True	1,500.00	2,316.10	1,500.00	2,316.10	Passed	34	20
J-439	True	True	1,500.00	2,751.81	1,500.00	2,751.81	Passed	36	20
J-440	True	True	1,500.00	2,868.10	1,500.00	2,868.10	Passed	37	20
J-441	True	True	1,500.00	1,649.23	1,500.00	1,649.23	Passed	23	20
J-442	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	45	32
J-443	True	True	1,500.00	3,241.81	1,500.00	3,241.81	Passed	41	20
J-444	True	True	1,500.00	3,414.17	1,500.00	3,414.17	Passed	42	20
J-445	True	True	1,500.00	3,455.66	1,500.00	3,455.66	Passed	38	20
J-446	True	True	1,500.00	3,036.90	1,500.00	3,036.90	Passed	36	20
J-447	True	True	1,500.00	3,335.10	1,500.00	3,335.10	Passed	38	20
J-448	True	True	1,500.00	3,426.91	1,500.00	3,426.91	Passed	38	20
J-449	True	True	1,500.00	2,462.28	1,500.00	2,462.28	Passed	34	20
J-450	True	True	1,500.00	2,452.79	1,500.00	2,452.79	Passed	34	20
J-451	True	True	1,500.00	1,803.84	1,500.00	1,803.84	Passed	25	20
J-452	True	True	1,500.00	1,836.79	1,500.00	1,836.79	Passed	26	20
J-454	True	True	1,500.00	1,690.68	1,500.00	1,690.68	Passed	24	20
J-455	True	True	1,500.00	2,835.68	1,500.00	2,835.68	Passed	38	20
J-456	True	True	1,500.00	2,467.98	1,500.00	2,467.98	Passed	36	20
J-457	True	True	1,500.00	1,851.18	1,500.00	1,851.18	Passed	26	20
J-458	True	True	1,500.00	3,219.01	1,500.00	3,219.01	Passed	39	20
J-459	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	32
J-460	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	26
J-461	True	True	1,500.00	1,877.79	1,500.00	1,877.79	Passed	27	20
J-462	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	40	20
J-463	True	True	1,500.00	3,152.12	1,500.00	3,152.12	Passed	37	20
J-464	True	True	1,500.00	2,906.58	1,599.74	3,006.32	Passed	36	20
J-465	True	True	1,500.00	2,916.35	1,599.74	3,016.09	Passed	36	20
J-467	True	True	1,500.00	2,730.73	1,500.00	2,730.73	Passed	36	20
J-468	True	True	1,500.00	2,692.32	1,500.00	2,692.32	Passed	36	20
J-470	True	True	1,500.00	2,484.14	1,500.00	2,484.14	Passed	32	20
J-471	True	True	1,500.00	2,319.53	1,500.00	2,319.53	Passed	33	20
J-472	True	True	1,500.00	2,876.80	1,674.74	3,051.54	Passed	36	20
J-473	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	30
J-474	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	26
J-475	True	True	1,500.00	2,236.20	1,500.00	2,236.20	Passed	33	20
J-476	True	True	1,500.00	2,266.03	1,500.00	2,266.03	Passed	34	20
J-477	True	True	1,500.00	3,430.54	1,500.00	3,430.54	Passed	40	20
J-478	True	True	1,500.00	3,470.54	1,500.00	3,470.54	Passed	40	20
J-479	True	True	1,500.00	2,511.85	1,500.00	2,511.85	Passed	36	21
J-480	True	True	1,500.00	2,342.81	1,500.00	2,342.81	Passed	34	20
J-481	True	True	1,500.00	3,079.47	1,500.00	3,079.47	Passed	35	20
J-482	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	37	22
J-483	True	True	1,500.00	2,050.78	1,500.00	2,050.78	Passed	31	20
J-484	True	True	1,500.00	2,223.65	1,500.00	2,223.65	Passed	33	20
J-485	True	True	1,500.00	1,582.66	1,500.00	1,582.66	Passed	22	21
J-486	True	True	1,500.00	1,608.45	1,500.00	1,608.45	Passed	23	21
J-489	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	48	44
J-490	True	True	1,500.00	2,374.66	1,500.00	2,374.66	Passed	32	20
J-491	True	True	1,500.00	2,258.15	1,500.00	2,258.15	Passed	31	20
J-492	True	True	1,500.00	1,798.36	1,500.00	1,798.36	Passed	25	20
J-494	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	25
J-495	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	22
J-496	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	44	36
J-502	True	True	1,500.00	1,601.75	2,036.24	2,137.99	Passed	22	20
J-503	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	40	21
J-504	True	True	1,500.00	1,807.35	1,500.00	1,807.35	Passed	25	20
J-505	True	True	1,500.00	1,943.03	1,500.00	1,943.03	Passed	27	20
J-506	True	True	1,500.00	1,750.06	1,566.74	1,816.80	Passed	24	20
J-507	True	True	1,500.00	1,840.39	1,500.00	1,840.39	Passed	26	21
J-508	True	True	1,500.00	2,063.06	1,500.00	2,063.06	Passed	31	20
J-509	True	True	1,500.00	1,930.67	1,500.00	1,930.67	Passed	30	20
J-510	True	True	1,500.00	2,915.81	1,500.00	2,915.81	Passed	37	20
J-511	True	True	1,500.00	2,851.02	1,500.00	2,851.02	Passed	37	20
J-512	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	35
J-513	True	True	1,500.00	2,988.84	1,500.00	2,988.84	Passed	38	20
J-514	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	25
J-515	True	True	1,500.00	3,182.15	1,500.00	3,182.15	Passed	39	20
J-516	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	44	34
J-517	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	46	39
J-518	True	True	1,500.00	1,689.75	1,500.00	1,689.75	Passed	24	20
J-519	True	True	1,500.00	2,619.46	1,500.00	2,619.46	Passed	33	20
J-520	True	True	1,500.00	2,548.64	1,500.00	2,548.64	Passed	36	21
J-521	True	True	1,500.00	2,438.90	1,500.00	2,438.90	Passed	35	20
J-522	True	True	1,500.00	2,454.23	1,500.00	2,454.23	Passed	35	20
J-523	True	True	1,500.00	3,308.35	1,500.00	3,308.35	Passed	37	20
J-525	True	True	1,500.00	2,010.89	1,500.00	2,010.89	Passed	28	20
J-526	True	True	1,500.00	1,925.62	1,500.00	1,925.62	Passed	27	20
J-527	True	True	1,500.00	2,539.52	1,500.00	2,539.52	Passed	36	20
J-528	True	True	1,500.00	1,935.90	1,500.00	1,935.90	Passed	27	21

Fire Flow Node FlexTable: Fire Flow Results Table

Label	Is Fire Flow Run Balanced?	Satisfies Fire Flow Constraints?	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Fire Flow Status	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Residual) (psi)
J-529	True	True	1,500.00	1,984.48	1,601.24	2,085.72	Passed	29	20
J-530	True	True	1,500.00	2,274.61	1,500.00	2,274.61	Passed	31	20
J-531	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	31
J-532	True	True	1,500.00	2,585.69	1,650.74	2,736.43	Passed	35	20
J-533	True	True	1,500.00	2,847.27	1,500.00	2,847.27	Passed	37	20
J-535	True	True	1,500.00	1,985.68	1,500.00	1,985.68	Passed	28	20
J-536	True	True	1,500.00	2,104.99	1,500.00	2,104.99	Passed	29	20
J-537	True	True	1,500.00	2,377.97	1,500.00	2,377.97	Passed	34	20
J-538	True	True	1,500.00	1,750.35	1,500.00	1,750.35	Passed	25	20
J-539	True	True	1,500.00	1,770.57	1,731.74	2,002.31	Passed	25	20
J-540	True	True	1,500.00	3,439.80	1,500.00	3,439.80	Passed	40	20
J-541	True	True	1,500.00	1,911.72	1,500.00	1,911.72	Passed	28	23
J-542	True	True	1,500.00	3,285.19	1,500.00	3,285.19	Passed	36	21
J-543	True	True	1,500.00	1,877.27	1,500.00	1,877.27	Passed	27	20
J-544	True	True	1,500.00	2,659.05	1,500.00	2,659.05	Passed	35	20
J-545	True	True	1,500.00	2,843.70	1,500.00	2,843.70	Passed	36	20
J-546	True	True	1,500.00	2,288.62	1,500.00	2,288.62	Passed	31	20
J-547	True	True	1,500.00	2,182.83	1,761.74	2,444.57	Passed	30	20
J-548	True	True	1,500.00	1,627.87	1,500.00	1,627.87	Passed	23	20
J-549	True	True	1,500.00	1,728.18	1,500.00	1,728.18	Passed	24	20
J-550	True	True	1,500.00	2,942.20	1,500.00	2,942.20	Passed	37	20
J-551	True	True	1,500.00	2,012.51	1,500.00	2,012.51	Passed	28	21
J-552	True	True	1,500.00	1,956.17	1,616.24	2,072.41	Passed	27	20
J-553	True	True	1,500.00	2,111.03	1,500.00	2,111.03	Passed	29	20
J-554	True	True	1,500.00	2,140.33	1,500.00	2,140.33	Passed	29	20
J-557	True	True	1,500.00	3,196.81	1,500.00	3,196.81	Passed	39	20
J-558	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	45	38
J-559	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	23
J-561	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	39	24
J-562	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	38	21
J-563	True	True	1,500.00	3,373.99	1,500.00	3,373.99	Passed	38	20
J-564	True	True	1,500.00	3,430.55	1,500.00	3,430.55	Passed	38	20
J-565	True	True	1,500.00	3,139.31	1,500.00	3,139.31	Passed	38	20
J-566	True	True	1,500.00	3,117.79	1,500.00	3,117.79	Passed	38	20
J-567	True	True	1,500.00	1,961.51	1,500.00	1,961.51	Passed	28	20
J-568	True	True	1,500.00	2,087.70	1,500.00	2,087.70	Passed	29	20
J-569	True	True	1,500.00	1,800.28	1,500.00	1,800.28	Passed	25	20
J-571	True	True	1,500.00	1,764.27	1,500.00	1,764.27	Passed	25	20
J-572	True	True	1,500.00	1,778.32	1,500.00	1,778.32	Passed	25	20
J-577	True	True	1,500.00	1,672.74	1,500.00	1,672.74	Passed	24	20
J-578	True	True	1,500.00	2,208.29	1,500.00	2,208.29	Passed	30	20
J-579	True	True	1,500.00	2,923.55	1,500.00	2,923.55	Passed	36	20
J-580	True	True	1,500.00	2,748.74	1,500.00	2,748.74	Passed	35	20
J-581	True	True	1,500.00	1,794.02	1,500.00	1,794.02	Passed	25	20
J-582	True	True	1,500.00	1,774.06	1,500.00	1,774.06	Passed	25	20
J-583	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	44	33
J-584	True	True	1,500.00	2,665.69	1,500.00	2,665.69	Passed	36	20
J-585	True	True	1,500.00	3,018.81	1,500.00	3,018.81	Passed	38	20
J-586	True	True	1,500.00	2,025.89	1,500.00	2,025.89	Passed	29	20
J-587	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	40	22
J-589	True	True	1,500.00	1,750.50	1,500.00	1,750.50	Passed	25	20
J-590	True	True	1,500.00	1,727.96	1,500.00	1,727.96	Passed	24	20
J-591	True	True	1,500.00	2,918.38	1,500.00	2,918.38	Passed	35	20
J-592	True	True	1,500.00	2,210.38	1,500.00	2,210.38	Passed	31	20
J-593	True	True	1,500.00	2,207.58	1,500.00	2,207.58	Passed	30	20
J-594	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	27
J-595	True	True	1,500.00	3,470.79	1,500.00	3,470.79	Passed	40	20
J-596	True	True	1,500.00	3,499.99	1,588.49	3,588.48	Passed	42	30
J-597	True	True	1,500.00	1,744.46	1,680.74	1,925.21	Passed	25	20
J-598	True	True	1,500.00	1,707.31	1,500.00	1,707.31	Passed	24	20
J-601	True	True	1,500.00	3,148.97	1,500.00	3,148.97	Passed	36	20
J-602	True	True	1,500.00	1,818.96	1,500.00	1,818.96	Passed	26	21
J-603	True	True	1,500.00	1,682.61	1,500.00	1,682.61	Passed	24	22
J-604	True	True	1,500.00	1,529.42	1,500.00	1,529.42	Passed	21	20
J-605	True	True	1,500.00	2,134.20	1,500.00	2,134.20	Passed	29	20
J-606	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	40	22
J-607	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	40	21
J-608	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	38	21
J-609	True	True	1,500.00	2,226.23	1,601.24	2,327.47	Passed	32	20
J-610	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	39	24
J-611	True	True	1,500.00	1,847.98	1,571.24	1,919.22	Passed	26	20
J-612	True	True	1,500.00	2,209.68	1,500.00	2,209.68	Passed	32	20
J-613	True	True	1,500.00	3,355.70	1,500.00	3,355.70	Passed	38	20
J-614	True	True	1,500.00	2,540.23	1,500.00	2,540.23	Passed	35	20
J-615	True	True	1,500.00	1,748.71	1,500.00	1,748.71	Passed	27	23
J-618	True	True	1,500.00	1,716.15	1,500.00	1,716.15	Passed	24	20
J-619	True	True	1,500.00	1,761.56	1,500.00	1,761.56	Passed	25	20
J-620	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	39	25
J-621	True	True	1,500.00	2,426.56	1,500.00	2,426.56	Passed	35	20
J-622	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	30
J-623	True	True	1,500.00	2,939.47	1,500.00	2,939.47	Passed	35	20
J-624	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	25
J-625	True	True	1,500.00	1,980.55	1,500.00	1,980.55	Passed	28	20

Fire Flow Node FlexTable: Fire Flow Results Table

Label	Is Fire Flow Run Balanced?	Satisfies Fire Flow Constraints?	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Fire Flow Status	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Residual) (psi)
J-626	True	True	1,500.00	1,638.16	1,500.00	1,638.16	Passed	23	20
J-627	True	True	1,500.00	1,957.83	1,500.00	1,957.83	Passed	27	20
J-628	True	True	1,500.00	1,976.28	1,569.74	2,046.02	Passed	28	20
J-629	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	24
J-630	True	True	1,500.00	3,310.65	1,500.00	3,310.65	Passed	39	20
J-631	True	True	1,500.00	2,179.85	1,500.00	2,179.85	Passed	29	21
J-632	True	True	1,500.00	1,860.15	1,500.00	1,860.15	Passed	26	20
J-633	True	True	1,500.00	2,201.72	1,607.24	2,308.96	Passed	32	20
J-634	True	True	1,500.00	1,810.35	1,500.00	1,810.35	Passed	25	20
J-635	True	True	1,500.00	2,221.08	1,622.24	2,343.32	Passed	32	20
J-636	True	True	1,500.00	2,959.25	1,500.00	2,959.25	Passed	38	20
J-637	True	True	1,500.00	3,163.65	1,500.00	3,163.65	Passed	39	20
J-638	True	True	1,500.00	1,571.09	1,607.24	1,678.33	Passed	22	20
J-639	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	28
J-640	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	46	40
J-641	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	45	34
J-643	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	44	31
J-644	True	True	1,500.00	3,071.20	1,500.00	3,071.20	Passed	38	20
J-645	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	47	37
J-646	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	35
J-647	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	52	50
J-648	True	True	1,500.00	2,245.94	1,500.00	2,245.94	Passed	31	20
J-649	True	True	1,500.00	1,799.11	1,500.00	1,799.11	Passed	25	21
J-650	True	True	1,500.00	2,402.26	1,500.00	2,402.26	Passed	34	20
J-651	True	True	1,500.00	2,882.17	1,500.00	2,882.17	Passed	39	20
J-652	True	True	1,500.00	2,447.23	1,500.00	2,447.23	Passed	36	20
J-653	True	True	1,500.00	1,537.73	1,500.00	1,537.73	Passed	21	20
J-654	True	True	1,500.00	1,656.53	1,500.00	1,656.53	Passed	24	22
J-654	True	True	1,500.00	1,546.00	1,500.00	1,546.00	Passed	21	20
J-671	True	True	1,500.00	1,518.23	1,500.00	1,518.23	Passed	21	20
J-673	True	True	1,500.00	1,626.84	1,500.00	1,626.84	Passed	23	20
J-674	True	True	1,500.00	1,613.45	1,500.00	1,613.45	Passed	22	20
J-675	True	True	1,500.00	1,658.24	1,551.74	1,709.98	Passed	23	20
J-676	True	True	1,500.00	2,152.90	1,500.00	2,152.90	Passed	30	20
J-678	True	True	1,500.00	3,149.26	1,500.00	3,149.26	Passed	39	20
J-679	True	True	1,500.00	1,612.03	1,500.00	1,612.03	Passed	23	20
J-680	True	True	1,500.00	1,543.57	1,500.00	1,543.57	Passed	21	20
J-681	True	True	1,500.00	1,543.55	1,500.00	1,543.55	Passed	21	20
J-682	True	True	1,500.00	3,068.16	1,500.00	3,068.16	Passed	36	20
J-683	True	True	1,500.00	2,494.06	1,500.00	2,494.06	Passed	33	20
J-684	True	True	1,500.00	2,321.11	1,500.00	2,321.11	Passed	32	20
J-685	True	True	1,500.00	2,228.72	1,628.24	2,356.96	Passed	31	20
J-686	True	True	1,500.00	2,313.70	1,500.00	2,313.70	Passed	32	20
J-687	True	True	1,500.00	2,333.12	1,500.00	2,333.12	Passed	32	20
J-688	True	True	1,500.00	2,357.24	1,500.00	2,357.24	Passed	32	20
J-691	True	True	1,500.00	2,961.60	1,500.00	2,961.60	Passed	35	20
J-692	True	True	1,500.00	1,988.71	1,500.00	1,988.71	Passed	29	20
J-693	True	True	1,500.00	2,842.95	1,500.00	2,842.95	Passed	36	20
J-694	True	True	1,500.00	2,132.44	1,500.00	2,132.44	Passed	31	20
J-695	True	True	1,500.00	2,297.02	1,500.00	2,297.02	Passed	33	20
J-696	True	True	1,500.00	2,569.90	1,500.00	2,569.90	Passed	35	20
J-697	True	True	1,500.00	2,871.30	1,500.00	2,871.30	Passed	36	20
J-698	True	True	1,500.00	3,493.67	1,500.00	3,493.67	Passed	38	20
J-699	True	True	1,500.00	2,436.04	1,500.00	2,436.04	Passed	34	20
J-700	True	True	1,500.00	3,274.77	1,500.00	3,274.77	Passed	37	20
J-701	True	True	1,500.00	3,141.54	1,500.00	3,141.54	Passed	37	20
J-702	True	True	1,500.00	3,392.57	1,500.00	3,392.57	Passed	38	20
J-703	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	29
J-705	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	30
J-706	True	True	1,500.00	2,718.93	1,500.00	2,718.93	Passed	36	20
J-707	True	True	1,500.00	2,630.72	1,500.00	2,630.72	Passed	36	20
J-708	True	True	1,500.00	2,443.02	1,500.00	2,443.02	Passed	35	20
J-709	True	True	1,500.00	2,445.41	1,500.00	2,445.41	Passed	35	20
J-710	True	True	1,500.00	2,665.48	1,500.00	2,665.48	Passed	36	20
J-711	True	True	1,500.00	2,433.13	1,500.00	2,433.13	Passed	34	20
J-712	True	True	1,500.00	1,830.04	1,500.00	1,830.04	Passed	28	20
J-713	True	True	1,500.00	2,504.73	1,500.00	2,504.73	Passed	35	20
J-714	True	True	1,500.00	2,939.05	1,500.00	2,939.05	Passed	37	20
J-715	True	True	1,500.00	3,012.38	1,500.00	3,012.38	Passed	38	20
J-716	True	True	1,500.00	2,555.38	1,500.00	2,555.38	Passed	35	20
J-717	True	True	1,500.00	1,957.92	1,500.00	1,957.92	Passed	30	20
J-718	True	True	1,500.00	1,896.28	1,500.00	1,896.28	Passed	29	20
J-719	True	True	1,500.00	1,778.06	1,500.00	1,778.06	Passed	27	20
J-720	True	True	1,500.00	3,239.01	1,500.00	3,239.01	Passed	39	20
J-721	True	True	1,500.00	3,042.77	1,500.00	3,042.77	Passed	38	20
J-722	True	True	1,500.00	3,090.18	1,631.24	3,221.42	Passed	38	20
J-723	True	True	1,500.00	2,964.69	1,500.00	2,964.69	Passed	38	20
J-724	True	True	1,500.00	3,008.24	1,500.00	3,008.24	Passed	38	20
J-725	True	True	1,500.00	2,855.22	1,500.00	2,855.22	Passed	37	20
J-726	True	True	1,500.00	2,775.94	1,596.74	2,872.68	Passed	37	20
J-727	True	True	1,500.00	3,459.98	1,500.00	3,459.98	Passed	40	20
J-728	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	24
J-729	True	True	1,500.00	3,499.99	1,592.24	3,592.23	Passed	40	21

Fire Flow Node FlexTable: Fire Flow Results Table

Label	Is Fire Flow Run Balanced?	Satisfies Fire Flow Constraints?	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Fire Flow Status	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Residual) (psi)
J-730	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	29
J-731	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	43	32
J-732	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	48	43
J-733	True	True	1,500.00	2,062.96	1,500.00	2,062.96	Passed	31	20
J-734	True	True	1,500.00	2,278.42	1,500.00	2,278.42	Passed	34	20
J-735	True	True	1,500.00	3,454.79	1,500.00	3,454.79	Passed	40	20
J-736	True	True	1,500.00	3,362.86	1,500.00	3,362.86	Passed	40	20
J-737	True	True	1,500.00	2,247.79	1,500.00	2,247.79	Passed	33	20
J-738	True	True	1,500.00	1,775.08	1,500.00	1,775.08	Passed	27	20
J-739	True	True	1,500.00	1,659.52	1,500.00	1,659.52	Passed	24	20
J-740	True	True	1,500.00	1,631.44	1,500.00	1,631.44	Passed	24	20
J-741	True	True	1,500.00	3,449.46	1,500.00	3,449.46	Passed	40	20
J-742	True	True	1,500.00	3,011.20	1,500.00	3,011.20	Passed	38	20
J-743	True	True	1,500.00	3,355.56	1,500.00	3,355.56	Passed	39	20
J-744	True	True	1,500.00	2,940.55	1,500.00	2,940.55	Passed	38	20
J-745	True	True	1,500.00	3,326.63	1,500.00	3,326.63	Passed	39	20
J-746	True	True	1,500.00	2,844.83	1,500.00	2,844.83	Passed	38	20
J-747	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	31
J-748	True	True	1,500.00	2,720.77	1,500.00	2,720.77	Passed	37	20
J-749	True	True	1,500.00	3,022.61	1,500.00	3,022.61	Passed	38	20
J-750	True	True	1,500.00	1,567.63	1,500.00	1,567.63	Passed	22	20
J-751	True	True	1,500.00	1,684.59	1,500.00	1,684.59	Passed	24	20
J-752	True	True	1,500.00	1,771.25	1,500.00	1,771.25	Passed	26	20
J-753	True	True	1,500.00	1,733.36	1,500.00	1,733.36	Passed	25	20
J-754	True	True	1,500.00	1,671.66	1,500.00	1,671.66	Passed	24	20
J-755	True	True	1,500.00	1,727.96	1,500.00	1,727.96	Passed	25	20
J-756	True	True	1,500.00	1,731.04	1,500.00	1,731.04	Passed	25	20
J-757	True	True	1,500.00	1,981.51	1,500.00	1,981.51	Passed	29	20
J-758	True	True	1,500.00	3,349.88	1,500.00	3,349.88	Passed	37	20
J-759	True	True	1,500.00	1,846.79	1,500.00	1,846.79	Passed	27	20
J-760	True	True	1,500.00	1,759.54	1,500.00	1,759.54	Passed	26	20
J-761	True	True	1,500.00	1,637.61	1,500.00	1,637.61	Passed	23	20
J-762	True	True	1,500.00	1,634.15	1,500.00	1,634.15	Passed	23	20
J-763	True	True	1,500.00	1,593.99	1,500.00	1,593.99	Passed	22	20
J-764	True	True	1,500.00	1,582.85	1,500.00	1,582.85	Passed	22	20
J-765	True	True	1,500.00	1,603.37	1,500.00	1,603.37	Passed	23	20
J-766	True	True	1,500.00	1,677.82	1,500.00	1,677.82	Passed	24	20
J-767	True	True	1,500.00	1,753.62	1,500.00	1,753.62	Passed	26	20
J-768	True	True	1,500.00	1,665.43	1,500.00	1,665.43	Passed	24	20
J-769	True	True	1,500.00	1,820.24	1,500.00	1,820.24	Passed	27	20
J-774	True	True	1,500.00	2,231.64	1,500.00	2,231.64	Passed	32	20
J-784	True	True	1,500.00	3,179.32	1,500.00	3,179.32	Passed	35	20
J-785	True	True	1,500.00	2,409.17	1,500.00	2,409.17	Passed	32	20
J-786	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	44	29
J-787	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	44	30
J-788	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	44	31
J-789	True	True	1,500.00	3,499.76	1,500.00	3,499.76	Passed	42	20
J-790	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	42	21
J-792	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	53	50
J-793	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	52	50
J-794	True	True	1,500.00	1,569.00	1,500.00	1,569.00	Passed	22	20
J-795	True	True	1,500.00	3,066.96	1,500.00	3,066.96	Passed	38	20
J-797	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	54	51
J-798	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	50	47
J-801	True	True	1,500.00	2,740.72	1,590.74	2,831.46	Passed	36	20
J-803	True	True	1,500.00	3,499.99	1,726.49	3,726.48	Passed	46	34
J-804	True	True	1,500.00	3,280.16	1,726.49	3,506.65	Passed	40	20
J-810	True	True	1,500.00	1,649.44	1,500.00	1,649.44	Passed	24	20
J-812	True	True	1,500.00	1,861.16	1,601.24	1,962.40	Passed	28	20
J-813	True	True	1,500.00	3,499.99	1,694.24	3,694.23	Passed	40	22
J-814	True	True	1,500.00	2,363.12	1,500.00	2,363.12	Passed	34	20
J-815	True	True	1,500.00	1,632.68	1,575.74	1,708.42	Passed	24	20
J-816	True	True	1,500.00	2,195.15	1,630.49	2,325.64	Passed	33	20
J-817	True	True	1,500.00	2,196.21	1,610.24	2,306.45	Passed	33	20
J-818	True	True	1,500.00	2,130.11	1,610.24	2,240.35	Passed	32	20
J-819	True	True	1,500.00	3,148.44	1,674.74	3,323.18	Passed	39	20
J-820	True	True	1,500.00	2,323.21	1,562.24	2,385.45	Passed	34	20
J-821	True	True	1,500.00	3,499.99	1,637.24	3,637.23	Passed	47	41
J-823	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	48	43
J-1045	True	True	1,500.00	3,402.93	1,500.00	3,402.93	Passed	36	21
J-1048	True	True	1,500.00	2,752.27	1,500.00	2,752.27	Passed	33	21
J-1049	True	True	1,500.00	1,608.48	1,500.00	1,608.48	Passed	22	20
J-1050	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	29
J-1052	True	True	1,500.00	2,368.48	1,500.00	2,368.48	Passed	33	24
J-1053	True	True	1,500.00	1,663.84	1,500.00	1,663.84	Passed	23	20
J-1059	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	41	26
J-1060	True	True	1,500.00	3,499.99	1,500.00	3,499.99	Passed	46	37
J-49	True	False	1,500.00	924.84	1,674.74	1,099.58	Residual Pressure Failed	-11	20

Fire Flow Node FlexTable: Fire Flow Results Table

Label	Is Fire Flow Run Balanced?	Satisfies Fire Flow Constraints?	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Fire Flow Status	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Residual) (psi)
J-77	True	False	1,500.00	1,353.38	1,500.00	1,353.38	Residual Pressure and Zone Pressure Failed	14	20
J-78	True	False	1,500.00	1,324.21	1,500.00	1,324.21	Residual Pressure and Zone Pressure Failed	13	20
J-79	True	False	1,500.00	1,260.55	1,500.00	1,260.55	Residual Pressure and Zone Pressure Failed	14	20
J-80	True	False	1,500.00	1,247.93	1,500.00	1,247.93	Residual Pressure and Zone Pressure Failed	14	20
J-85	True	False	1,500.00	1,144.16	1,500.00	1,144.16	Residual Pressure and Zone Pressure Failed	6	20
J-86	True	False	1,500.00	1,054.06	1,500.00	1,054.06	Residual Pressure Failed	1	20
J-88	True	False	1,500.00	1,423.25	1,500.00	1,423.25	Residual Pressure Failed	17	20
J-97	True	False	1,500.00	849.56	1,500.00	849.56	Residual Pressure and Zone Pressure Failed	-10	20
J-98	True	False	1,500.00	801.06	1,500.00	801.06	Residual Pressure Failed	-17	20
J-100	True	False	1,500.00	1,380.97	1,500.00	1,380.97	Residual Pressure and Zone Pressure Failed	17	20
J-101	True	False	1,500.00	1,185.75	1,500.00	1,185.75	Residual Pressure Failed	7	20
J-102	True	False	1,500.00	923.69	1,500.00	923.69	Zone Pressure Failed	-4	20
J-103	True	False	1,500.00	864.41	1,500.00	864.41	Residual Pressure Failed	-11	20
J-104	True	False	1,500.00	576.14	1,500.00	576.14	Residual Pressure and Zone Pressure Failed	-49	20
J-105	True	False	1,500.00	539.82	1,745.24	785.06	Residual Pressure Failed	-58	20
J-106	True	False	1,500.00	1,329.87	1,500.00	1,329.87	Residual Pressure Failed	15	20
J-108	True	False	1,500.00	1,370.73	1,500.00	1,370.73	Residual Pressure and Zone Pressure Failed	16	20
J-109	True	False	1,500.00	1,195.88	1,500.00	1,195.88	Residual Pressure Failed	9	20
J-112	True	False	1,500.00	1,367.29	1,500.00	1,367.29	Residual Pressure Failed	16	20
J-117	True	False	1,500.00	1,181.51	1,500.00	1,181.51	Residual Pressure and Zone Pressure Failed	8	20
J-118	True	False	1,500.00	1,206.13	1,500.00	1,206.13	Residual Pressure and Zone Pressure Failed	9	20
J-120	True	False	1,500.00	1,475.76	1,500.00	1,475.76	Residual Pressure Failed	19	20
J-122	True	False	1,500.00	1,486.32	1,500.00	1,486.32	Residual Pressure Failed	20	20

Fire Flow Node FlexTable: Fire Flow Results Table

Label	Is Fire Flow Run Balanced?	Satisfies Fire Flow Constraints?	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Fire Flow Status	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Residual) (psi)
J-124	True	False	1,500.00	951.05	1,500.00	951.05	Residual Pressure and Zone Pressure Failed	-8	20
J-125	True	False	1,500.00	875.78	1,500.00	875.78	Residual Pressure Failed	-16	20
J-131	True	False	1,500.00	637.71	1,500.00	637.71	Residual Pressure Failed	-66	20
J-132	True	False	1,500.00	1,153.04	1,735.49	1,388.53	Residual Pressure Failed	8	20
J-136	True	False	1,500.00	1,383.19	1,500.00	1,383.19	Residual Pressure and Zone Pressure Failed	17	20
J-139	True	False	1,500.00	1,313.98	1,500.00	1,313.98	Residual Pressure Failed	14	20
J-143	True	False	1,500.00	493.67	1,500.00	493.67	Residual Pressure and Zone Pressure Failed	-83	20
J-144	True	False	1,500.00	505.82	1,500.00	505.82	Residual Pressure and Zone Pressure Failed	-77	20
J-150	True	False	1,500.00	1,387.41	1,500.00	1,387.41	Residual Pressure Failed	16	20
J-160	True	False	1,500.00	1,400.41	1,500.00	1,400.41	Residual Pressure and Zone Pressure Failed	17	20
J-163	True	False	1,500.00	1,305.95	1,500.00	1,305.95	Residual Pressure Failed	14	20
J-164	True	False	1,500.00	1,303.85	1,500.00	1,303.85	Residual Pressure Failed	14	20
J-166	True	False	1,500.00	1,262.76	1,615.49	1,378.25	Residual Pressure Failed	11	20
J-183	True	False	1,500.00	915.05	1,722.74	1,137.79	Residual Pressure Failed	-7	20
J-187	True	False	1,500.00	1,237.80	1,500.00	1,237.80	Residual Pressure Failed	7	20
J-195	True	False	1,500.00	1,457.00	1,500.00	1,457.00	Residual Pressure Failed	18	20
J-197	True	False	1,500.00	1,303.86	1,500.00	1,303.86	Residual Pressure Failed	12	20
J-211	True	False	1,500.00	1,245.54	1,500.00	1,245.54	Residual Pressure Failed	9	20
J-212	True	False	1,500.00	1,364.92	1,500.00	1,364.92	Zone Pressure Failed	16	20
J-213	True	False	1,500.00	1,398.06	1,500.00	1,398.06	Residual Pressure and Zone Pressure Failed	17	20
J-215	True	False	1,500.00	1,414.64	1,500.00	1,414.64	Residual Pressure and Zone Pressure Failed	18	20
J-223	True	False	1,500.00	1,194.36	1,500.00	1,194.36	Residual Pressure and Zone Pressure Failed	9	20
J-224	True	False	1,500.00	873.19	1,500.00	873.19	Residual Pressure Failed	-17	20
J-226	True	False	1,500.00	1,455.38	1,500.00	1,455.38	Residual Pressure Failed	19	20
J-227	True	False	1,500.00	1,191.32	1,500.00	1,191.32	Residual Pressure Failed	7	20

Fire Flow Node FlexTable: Fire Flow Results Table

Label	Is Fire Flow Run Balanced?	Satisfies Fire Flow Constraints?	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Fire Flow Status	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Residual) (psi)
J-231	True	False	1,500.00	1,365.37	1,500.00	1,365.37	Residual Pressure Failed	14	20
J-233	True	False	1,500.00	1,056.96	1,500.00	1,056.96	Residual Pressure Failed	-6	20
J-238	True	False	1,500.00	1,026.54	1,500.00	1,026.54	Residual Pressure Failed	-2	20
J-242	True	False	1,500.00	1,124.71	1,500.00	1,124.71	Residual Pressure Failed	1	20
J-245	True	False	1,500.00	1,084.24	1,647.74	1,231.98	Residual Pressure Failed	-1	20
J-250	True	False	1,500.00	1,232.65	1,500.00	1,232.65	Residual Pressure Failed	8	20
J-252	True	False	1,500.00	1,000.14	1,500.00	1,000.14	Residual Pressure Failed	-6	20
J-258	True	False	1,500.00	930.24	1,500.00	930.24	Residual Pressure Failed	-10	20
J-264	True	False	1,500.00	1,444.97	1,500.00	1,444.97	Residual Pressure Failed	19	20
J-265	True	False	1,500.00	1,422.47	1,500.00	1,422.47	Residual Pressure and Zone Pressure Failed	18	20
J-266	True	False	1,500.00	886.73	1,500.00	886.73	Residual Pressure Failed	-15	20
J-272	True	False	1,500.00	1,239.81	1,658.24	1,398.05	Residual Pressure Failed	11	20
J-273	True	False	1,500.00	946.32	1,701.74	1,148.06	Residual Pressure Failed	-9	20
J-280	True	False	1,500.00	991.51	1,500.00	991.51	Residual Pressure Failed	-10	20
J-283	True	False	1,500.00	1,194.63	1,500.00	1,194.63	Zone Pressure Failed	13	22
J-284	True	False	1,500.00	1,110.84	1,500.00	1,110.84	Residual Pressure Failed	5	20
J-285	True	False	1,500.00	1,471.23	1,500.00	1,471.23	Residual Pressure Failed	19	20
J-290	True	False	1,500.00	1,308.37	1,500.00	1,308.37	Residual Pressure Failed	14	20
J-291	True	False	1,500.00	1,380.39	1,500.00	1,380.39	Residual Pressure Failed	16	20
J-292	True	False	1,500.00	1,039.05	1,500.00	1,039.05	Residual Pressure Failed	-4	20
J-293	True	False	1,500.00	1,007.17	1,500.00	1,007.17	Residual Pressure Failed	-7	20
J-295	True	False	1,500.00	747.29	1,745.24	992.53	Residual Pressure Failed	-22	20
J-298	True	False	1,500.00	913.36	1,630.49	1,043.85	Residual Pressure Failed	-14	20
J-302	True	False	1,500.00	1,359.89	1,712.24	1,572.13	Residual Pressure Failed	15	20
J-306	True	False	1,500.00	805.50	1,604.24	909.74	Residual Pressure Failed	-21	20
J-308	True	False	1,500.00	1,475.31	1,500.00	1,475.31	Residual Pressure Failed	19	20
J-312	True	False	1,500.00	471.89	1,500.00	471.89	Residual Pressure Failed	-95	20
J-313	True	False	1,500.00	1,263.70	1,500.00	1,263.70	Zone Pressure Failed	15	21
J-322	True	False	1,500.00	976.54	1,500.00	976.54	Residual Pressure Failed	-7	20

Fire Flow Node FlexTable: Fire Flow Results Table

Label	Is Fire Flow Run Balanced?	Satisfies Fire Flow Constraints?	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Fire Flow Status	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Residual) (psi)
J-326	True	False	1,500.00	436.97	1,791.74	726.71	Residual Pressure Failed	-68	20
J-328	True	False	1,500.00	1,136.10	1,500.00	1,136.10	Residual Pressure Failed	4	20
J-330	True	False	1,500.00	1,232.57	1,500.00	1,232.57	Residual Pressure and Zone Pressure Failed	12	20
J-332	True	False	1,500.00	1,191.05	1,500.00	1,191.05	Residual Pressure Failed	10	20
J-339	True	False	1,500.00	1,080.20	1,500.00	1,080.20	Residual Pressure Failed	-2	20
J-350	True	False	1,500.00	1,149.97	1,500.00	1,149.97	Residual Pressure Failed	6	20
J-354	True	False	1,500.00	931.63	1,500.00	931.63	Residual Pressure Failed	-15	20
J-358	True	False	1,500.00	680.50	1,500.00	680.50	Residual Pressure Failed	-69	20
J-400	True	False	1,500.00	1,110.89	1,500.00	1,110.89	Residual Pressure and Zone Pressure Failed	-4	20
J-401	True	False	1,500.00	1,101.71	1,500.00	1,101.71	Residual Pressure Failed	-5	20
J-403	True	False	1,500.00	1,265.97	1,500.00	1,265.97	Residual Pressure and Zone Pressure Failed	15	20
J-435	True	False	1,500.00	1,494.83	1,500.00	1,494.83	Residual Pressure Failed	20	20
J-487	True	False	1,500.00	1,384.88	1,500.00	1,384.88	Residual Pressure and Zone Pressure Failed	16	20
J-488	True	False	1,500.00	1,380.93	1,500.00	1,380.93	Residual Pressure and Zone Pressure Failed	16	20
J-498	True	False	1,500.00	1,302.63	1,641.74	1,444.37	Residual Pressure Failed	13	20
J-499	True	False	1,500.00	1,312.75	1,500.00	1,312.75	Residual Pressure Failed	13	20
J-500	True	False	1,500.00	1,382.14	1,500.00	1,382.14	Residual Pressure Failed	16	20
J-560	True	False	1,500.00	1,386.32	1,500.00	1,386.32	Residual Pressure and Zone Pressure Failed	16	20
J-588	True	False	1,500.00	1,199.71	1,500.00	1,199.71	Residual Pressure Failed	10	20
J-599	True	False	1,500.00	1,086.44	1,500.00	1,086.44	Residual Pressure Failed	4	20
J-616	True	False	1,500.00	611.31	1,601.24	712.55	Residual Pressure Failed	-49	20
J-642	True	False	1,500.00	1,245.24	1,569.74	1,314.98	Residual Pressure Failed	14	20
J-655	True	False	1,500.00	1,255.81	1,500.00	1,255.81	Residual Pressure and Zone Pressure Failed	14	20
J-656	True	False	1,500.00	1,265.24	1,500.00	1,265.24	Residual Pressure and Zone Pressure Failed	15	20

Fire Flow Node FlexTable: Fire Flow Results Table

Label	Is Fire Flow Run Balanced?	Satisfies Fire Flow Constraints?	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Fire Flow Status	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Residual) (psi)
J-657	True	False	1,500.00	1,271.33	1,713.74	1,485.07	Residual Pressure and Zone Pressure Failed	15	20
J-658	True	False	1,500.00	1,258.78	1,500.00	1,258.78	Residual Pressure Failed	14	20
J-659	True	False	1,500.00	1,262.39	1,500.00	1,262.39	Residual Pressure and Zone Pressure Failed	14	20
J-660	True	False	1,500.00	1,261.28	1,500.00	1,261.28	Residual Pressure and Zone Pressure Failed	14	20
J-661	True	False	1,500.00	1,267.09	1,500.00	1,267.09	Residual Pressure and Zone Pressure Failed	15	20
J-662	True	False	1,500.00	1,259.68	1,500.00	1,259.68	Residual Pressure and Zone Pressure Failed	14	20
J-663	True	False	1,500.00	1,279.99	1,500.00	1,279.99	Residual Pressure and Zone Pressure Failed	15	20
J-665	True	False	1,500.00	1,105.10	1,500.00	1,105.10	Residual Pressure Failed	8	20
J-666	True	False	1,500.00	1,273.80	1,500.00	1,273.80	Residual Pressure and Zone Pressure Failed	15	20
J-667	True	False	1,500.00	1,205.92	1,500.00	1,205.92	Residual Pressure and Zone Pressure Failed	13	20
J-668	True	False	1,500.00	1,111.67	1,500.00	1,111.67	Residual Pressure Failed	9	20
J-689	True	False	1,500.00	1,154.31	1,500.00	1,154.31	Residual Pressure and Zone Pressure Failed	11	20
J-670	True	False	1,500.00	935.32	1,674.74	1,110.06	Residual Pressure Failed	-1	20
J-672	True	False	1,500.00	1,278.70	1,500.00	1,278.70	Residual Pressure and Zone Pressure Failed	15	20
J-677	True	False	1,500.00	1,067.99	1,500.00	1,067.99	Residual Pressure Failed	2	20
J-689	True	False	1,500.00	1,414.36	1,500.00	1,414.36	Residual Pressure Failed	17	20
J-690	True	False	1,500.00	1,393.08	1,500.00	1,393.08	Residual Pressure Failed	17	20
J-770	True	False	1,500.00	1,431.87	1,500.00	1,431.87	Residual Pressure Failed	18	20
J-771	True	False	1,500.00	1,158.96	1,500.00	1,158.96	Residual Pressure Failed	7	20
J-772	True	False	1,500.00	1,137.98	1,500.00	1,137.98	Residual Pressure and Zone Pressure Failed	5	20
J-773	True	False	1,500.00	1,151.49	1,500.00	1,151.49	Residual Pressure and Zone Pressure Failed	6	20
J-775	True	False	1,500.00	1,215.42	1,500.00	1,215.42	Residual Pressure and Zone Pressure Failed	10	20

Fire Flow Node FlexTable: Fire Flow Results Table

Label	Is Fire Flow Run Balanced?	Satisfies Fire Flow Constraints?	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Fire Flow Status	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Residual) (psi)
J-776	True	False	1,500.00	1,193.10	1,500.00	1,193.10	Residual Pressure and Zone Pressure Failed	8	20
J-777	True	False	1,500.00	1,182.08	1,500.00	1,182.08	Residual Pressure and Zone Pressure Failed	8	20
J-778	True	False	1,500.00	1,164.43	1,500.00	1,164.43	Residual Pressure and Zone Pressure Failed	7	20
J-779	True	False	1,500.00	1,167.97	1,500.00	1,167.97	Residual Pressure and Zone Pressure Failed	7	20
J-780	True	False	1,500.00	1,184.48	1,500.00	1,184.48	Residual Pressure and Zone Pressure Failed	8	20
J-781	True	False	1,500.00	1,185.06	1,500.00	1,185.06	Residual Pressure and Zone Pressure Failed	8	20
J-782	True	False	1,500.00	1,116.47	1,500.00	1,116.47	Residual Pressure Failed	4	20
J-783	True	False	1,500.00	1,098.67	1,596.74	1,195.41	Residual Pressure Failed	3	20
J-791	True	False	1,500.00	1,067.35	1,500.00	1,067.35	Residual Pressure Failed	-3	20
J-799	True	False	1,500.00	1,482.59	1,679.24	1,661.83	Residual Pressure Failed	20	20
J-800	True	False	1,500.00	1,042.80	1,596.74	1,139.54	Residual Pressure Failed	3	20
J-802	True	False	1,500.00	1,232.50	1,559.24	1,291.74	Residual Pressure Failed	9	20
J-805	True	False	1,500.00	1,398.89	1,556.24	1,455.13	Residual Pressure Failed	18	20
J-806	True	False	1,500.00	1,053.73	1,539.74	1,093.47	Residual Pressure Failed	3	20
J-807	True	False	1,500.00	1,399.40	1,541.24	1,440.64	Residual Pressure Failed	18	20
J-808	True	False	1,500.00	970.25	1,735.49	1,205.74	Residual Pressure Failed	-2	20
J-809	True	False	1,500.00	1,450.86	1,679.24	1,630.10	Residual Pressure Failed	19	20
J-811	True	False	1,500.00	1,006.11	1,652.24	1,158.35	Residual Pressure Failed	-5	20
J-822	True	False	1,500.00	1,251.57	1,674.74	1,426.31	Residual Pressure Failed	12	20
J-1058	True	False	1,500.00	1,316.52	1,500.00	1,316.52	Residual Pressure Failed	16	20

Scenario: 2037
Low Pressure Analysis
Junction Table
Current Time: 19.00 hours @Peak Flow

ID	Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)	Pressure Head (ft)
40	J-1	100.00	0.00	206.21	46	106.21
41	J-2	100.00	0.00	206.21	46	106.21
55	J-3	100.00	0.00	206.93	46	106.93
56	J-4	100.00	0.00	207.10	46	107.10
58	J-5	100.00	0.00	206.21	46	106.21
59	J-6	100.00	0.00	206.21	46	106.21
61	J-7	100.00	0.00	206.17	46	106.17
62	J-8	100.00	107.24	206.15	46	106.15
64	J-9	100.00	0.00	221.72	53	121.72
67	J-10	100.00	0.00	206.21	46	106.21
69	J-11	100.00	0.00	206.22	46	106.22
71	J-12	100.00	0.00	206.25	46	106.25
74	J-13	100.00	0.00	209.72	47	109.72
76	J-14	100.00	0.00	200.18	43	100.18
77	J-15	100.00	0.00	200.78	44	100.78
79	J-16	100.00	0.00	206.32	46	106.32
81	J-17	100.00	0.00	206.71	46	106.71
82	J-18	100.00	0.00	206.56	46	106.56
84	J-19	100.00	69.74	205.45	46	105.45
85	J-20	100.00	0.00	204.76	45	104.76
89	J-21	100.00	0.00	210.70	48	110.70
91	J-22	100.00	0.00	206.13	46	106.13
93	J-23	100.00	0.00	206.97	46	106.97
94	J-24	100.00	0.00	214.35	49	114.35
96	J-25	100.00	0.00	205.84	46	105.84
97	J-26	100.00	0.00	205.60	46	105.60
99	J-27	100.00	0.00	205.60	46	105.60
100	J-28	100.00	0.00	210.04	48	110.04
105	J-29	100.00	0.00	210.33	48	110.33
108	J-30	100.00	0.00	210.73	48	110.73
109	J-31	100.00	0.00	210.71	48	110.71
111	J-32	100.00	0.00	206.62	46	106.62
113	J-33	100.00	0.00	205.86	46	105.86
114	J-34	100.00	0.00	205.86	46	105.86
116	J-35	100.00	0.00	208.80	47	108.80
117	J-36	100.00	0.00	210.30	48	110.30
119	J-37	100.00	0.00	221.82	53	121.82
120	J-38	100.00	0.00	217.83	51	117.83
122	J-39	100.00	0.00	195.71	41	95.71
123	J-40	100.00	0.00	195.82	41	95.82
125	J-41	100.00	0.00	216.19	50	116.19
126	J-42	100.00	0.00	216.63	50	116.63
128	J-43	100.00	0.00	217.89	51	117.89
129	J-44	100.00	0.00	215.16	50	115.16
131	J-45	100.00	68.24	204.31	45	104.31
132	J-46	100.00	0.00	202.49	44	102.49
137	J-47	100.00	0.00	97.93	-1	-2.07
138	J-48	100.00	0.00	222.33	53	122.33
146	J-49	100.00	174.74	205.25	46	105.25
147	J-50	100.00	0.00	206.25	46	106.25
153	J-51	100.00	0.00	222.10	53	122.10
161	J-52	100.00	0.00	206.94	46	106.94
162	J-53	100.00	0.00	206.94	46	106.94
164	J-54	100.00	0.00	208.24	47	108.24
165	J-55	100.00	0.00	208.24	47	108.24
173	J-56	100.00	0.00	201.74	44	101.74
178	J-57	100.00	0.00	211.06	48	111.06
179	J-58	100.00	88.49	211.04	48	111.04
181	J-59	100.00	0.00	210.63	48	110.63
182	J-60	100.00	0.00	210.63	48	110.63
184	J-61	100.00	0.00	209.41	47	109.41
185	J-62	100.00	0.00	209.41	47	109.41
187	J-63	100.00	0.00	205.95	46	105.95
188	J-64	100.00	0.00	205.90	46	105.90
190	J-65	100.00	0.00	209.39	47	109.39
191	J-66	100.00	0.00	209.39	47	109.39
196	J-67	100.00	0.00	209.10	47	109.10
197	J-68	100.00	0.00	209.10	47	109.10
206	J-69	100.00	0.00	201.15	44	101.15
209	J-70	100.00	0.00	203.09	45	103.09
211	J-71	100.00	0.00	209.39	47	109.39
212	J-72	100.00	0.00	209.38	47	109.38
214	J-73	100.00	0.00	206.31	46	106.31
215	J-74	100.00	0.00	206.31	46	106.31
217	J-75	100.00	0.00	205.86	46	105.86
218	J-76	100.00	0.00	205.86	46	105.86
221	J-77	100.00	0.00	210.71	48	110.71
223	J-78	100.00	0.00	210.71	48	110.71
225	J-79	100.00	0.00	194.32	41	94.32
226	J-80	100.00	0.00	194.32	41	94.32
230	J-81	100.00	0.00	205.59	46	105.59
231	J-82	100.00	0.00	205.59	46	105.59
233	J-83	100.00	0.00	205.85	46	105.85
234	J-84	100.00	0.00	205.85	46	105.85
236	J-85	100.00	0.00	200.87	44	100.87

FlexTable: Junction Table

Current Time: 19.00 hours

ID	Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)	Pressure Head (ft)
237	J-86	100.00	0.00	200.87	44	100.87
239	J-87	100.00	0.00	209.39	47	109.39
240	J-88	100.00	0.00	209.39	47	109.39
242	J-89	100.00	0.00	210.21	48	110.21
243	J-90	100.00	0.00	210.92	48	110.92
245	J-91	100.00	0.00	205.98	46	105.98
246	J-92	100.00	0.00	205.98	46	105.98
248	J-93	100.00	0.00	201.50	44	101.50
249	J-94	100.00	0.00	201.50	44	101.50
251	J-95	100.00	0.00	206.15	46	106.15
252	J-96	100.00	0.00	206.12	46	106.12
254	J-97	100.00	0.00	198.40	43	98.40
255	J-98	100.00	0.00	198.40	43	98.40
258	J-99	100.00	0.00	217.32	51	117.32
260	J-100	100.00	0.00	206.24	46	106.24
261	J-101	100.00	0.00	206.24	46	106.24
263	J-102	100.00	0.00	198.80	43	98.80
264	J-103	100.00	0.00	198.80	43	98.80
266	J-104	100.00	0.00	195.46	41	95.46
267	J-105	100.00	245.24	194.89	41	94.89
269	J-106	100.00	0.00	200.59	44	100.59
270	J-107	100.00	124.49	200.59	44	100.59
272	J-108	100.00	0.00	200.42	43	100.42
273	J-109	100.00	0.00	200.42	43	100.42
275	J-110	100.00	0.00	201.46	44	101.46
276	J-111	100.00	124.49	201.46	44	101.46
278	J-112	100.00	0.00	201.04	44	101.04
279	J-113	100.00	0.00	201.04	44	101.04
281	J-114	100.00	0.00	201.74	44	101.74
283	J-115	100.00	0.00	206.25	46	106.25
284	J-116	100.00	0.00	206.25	46	106.25
286	J-117	100.00	0.00	200.60	44	100.60
287	J-118	100.00	0.00	200.60	44	100.60
289	J-119	100.00	0.00	202.37	44	102.37
290	J-120	100.00	0.00	202.37	44	102.37
292	J-121	100.00	0.00	201.92	44	101.92
293	J-122	100.00	0.00	201.92	44	101.92
295	J-123	100.00	0.00	209.39	47	109.39
297	J-124	100.00	0.00	200.78	44	100.78
298	J-125	100.00	0.00	200.78	44	100.78
300	J-126	100.00	0.00	210.63	48	110.63
301	J-127	100.00	0.00	210.63	48	110.63
303	J-128	100.00	0.00	206.25	46	106.25
305	J-129	100.00	0.00	210.71	48	110.71
306	J-130	100.00	0.00	210.71	48	110.71
308	J-131	100.00	0.00	200.40	43	100.40
309	J-132	100.00	235.49	198.48	43	98.48
311	J-133	100.00	0.00	205.67	46	105.67
312	J-134	100.00	0.00	205.67	46	105.67
314	J-135	100.00	0.00	200.57	44	100.57
315	J-136	100.00	0.00	200.40	43	100.40
317	J-137	100.00	115.49	206.78	46	106.78
319	J-138	100.00	0.00	202.19	44	102.19
320	J-139	100.00	0.00	202.19	44	102.19
322	J-140	100.00	0.00	210.63	48	110.63
324	J-141	100.00	0.00	211.03	48	111.03
325	J-142	100.00	0.00	210.92	48	110.92
327	J-143	100.00	0.00	195.46	41	95.46
328	J-144	100.00	0.00	195.46	41	95.46
331	J-145	100.00	0.00	205.43	46	105.43
334	J-146	100.00	261.74	210.86	48	110.86
336	J-147	100.00	0.00	206.12	46	106.12
337	J-148	100.00	0.00	205.98	46	105.98
339	J-149	100.00	0.00	207.75	47	107.75
340	J-150	100.00	0.00	207.53	47	107.53
342	J-151	100.00	0.00	210.71	48	110.71
343	J-152	100.00	0.00	210.71	48	110.71
345	J-153	100.00	0.00	205.41	46	105.41
346	J-154	100.00	0.00	205.41	46	105.41
348	J-155	100.00	0.00	205.64	46	105.64
349	J-156	100.00	0.00	205.48	46	105.48
351	J-157	100.00	0.00	209.03	47	109.03
352	J-158	100.00	0.00	209.19	47	109.19
354	J-159	100.00	0.00	207.42	46	107.42
355	J-160	100.00	0.00	207.34	46	107.34
357	J-161	100.00	0.00	205.80	46	105.80
358	J-162	100.00	0.00	205.85	46	105.85
360	J-163	100.00	0.00	200.60	44	100.60
361	J-164	100.00	0.00	200.60	44	100.60
363	J-165	100.00	0.00	205.62	46	105.62
364	J-166	100.00	115.49	205.32	46	105.32
366	J-167	100.00	0.00	205.71	46	105.71
367	J-168	100.00	0.00	205.71	46	105.71
369	J-169	100.00	0.00	209.75	47	109.75
370	J-170	100.00	0.00	210.04	48	110.04

FlexTable: Junction Table

Current Time: 19.00 hours

ID	Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)	Pressure Head (ft)
372	J-171	100.00	0.00	205.82	46	105.82
373	J-172	100.00	0.00	205.77	46	105.77
375	J-173	100.00	0.00	214.57	50	114.57
376	J-174	100.00	0.00	211.27	48	111.27
378	J-175	100.00	62.24	205.88	46	105.88
379	J-176	100.00	0.00	206.19	46	106.19
381	J-177	100.00	0.00	203.12	45	103.12
382	J-178	100.00	0.00	203.45	45	103.45
384	J-179	100.00	0.00	210.43	48	110.43
387	J-180	100.00	0.00	205.85	46	105.85
388	J-181	100.00	131.24	205.82	46	105.82
390	J-182	100.00	0.00	200.18	43	100.18
391	J-183	100.00	222.74	198.29	43	98.29
393	J-184	100.00	0.00	208.59	47	108.59
394	J-185	100.00	0.00	207.79	47	107.79
396	J-186	100.00	0.00	216.27	50	116.27
397	J-187	100.00	0.00	216.27	50	116.27
399	J-188	100.00	0.00	205.59	46	105.59
400	J-189	100.00	0.00	205.60	46	105.60
402	J-190	100.00	0.00	205.94	46	105.94
403	J-191	100.00	0.00	205.94	46	105.94
405	J-192	100.00	0.00	208.88	47	108.88
406	J-193	100.00	0.00	209.36	47	109.36
408	J-194	100.00	0.00	212.53	49	112.53
409	J-195	100.00	0.00	212.53	49	112.53
411	J-196	100.00	0.00	211.85	48	111.85
412	J-197	100.00	0.00	211.85	48	111.85
414	J-198	100.00	0.00	201.64	44	101.64
415	J-199	100.00	0.00	201.65	44	101.65
417	J-200	100.00	0.00	201.72	44	101.72
418	J-201	100.00	0.00	201.73	44	101.73
420	J-202	100.00	0.00	205.81	46	105.81
421	J-203	100.00	0.00	205.82	46	105.82
423	J-204	100.00	0.00	210.01	48	110.01
424	J-205	100.00	0.00	209.21	47	109.21
426	J-206	100.00	0.00	205.70	46	105.70
427	J-207	100.00	0.00	205.70	46	105.70
429	J-208	100.00	0.00	205.78	46	105.78
430	J-209	100.00	0.00	205.62	46	105.62
432	J-210	100.00	0.00	211.11	48	111.11
433	J-211	100.00	0.00	211.11	48	111.11
435	J-212	100.00	0.00	207.17	46	107.17
436	J-213	100.00	0.00	207.30	46	107.30
438	J-214	100.00	0.00	200.96	44	100.96
439	J-215	100.00	0.00	200.26	43	100.26
441	J-216	100.00	0.00	211.21	48	111.21
443	J-217	100.00	0.00	209.44	47	109.44
446	J-218	100.00	0.00	205.05	45	105.05
449	J-219	100.00	62.24	202.90	45	102.90
450	J-220	100.00	0.00	201.75	44	101.75
452	J-221	100.00	0.00	205.64	46	105.64
453	J-222	100.00	0.00	203.56	45	103.56
455	J-223	100.00	0.00	200.78	44	100.78
456	J-224	100.00	0.00	200.78	44	100.78
461	J-225	100.00	0.00	207.85	47	107.85
462	J-226	100.00	0.00	207.75	47	107.75
464	J-227	100.00	0.00	206.78	46	106.78
465	J-228	100.00	0.00	206.78	46	106.78
467	J-229	100.00	0.00	206.25	46	106.25
469	J-230	100.00	0.00	213.78	49	113.78
472	J-231	100.00	0.00	216.27	50	116.27
473	J-232	100.00	0.00	216.27	50	116.27
475	J-233	100.00	0.00	210.71	48	110.71
477	J-234	100.00	0.00	201.53	44	101.53
478	J-235	100.00	0.00	201.54	44	101.54
480	J-236	100.00	0.00	210.30	48	110.30
482	J-237	100.00	0.00	201.30	44	101.30
483	J-238	100.00	0.00	201.30	44	101.30
485	J-239	100.00	0.00	209.70	47	109.70
486	J-240	100.00	0.00	211.87	48	111.87
488	J-241	100.00	0.00	209.30	47	109.30
489	J-242	100.00	0.00	209.30	47	109.30
491	J-243	100.00	0.00	207.17	46	107.17
493	J-244	100.00	0.00	210.21	48	110.21
494	J-245	100.00	147.74	208.98	47	108.98
496	J-246	100.00	0.00	200.38	43	100.38
498	J-247	100.00	0.00	204.93	45	104.93
499	J-248	100.00	0.00	204.80	45	104.80
501	J-249	100.00	0.00	209.71	47	109.71
502	J-250	100.00	0.00	209.71	47	109.71
504	J-251	100.00	0.00	202.45	44	102.45
505	J-252	100.00	0.00	202.45	44	102.45
507	J-253	100.00	0.00	209.80	48	109.80
508	J-254	100.00	0.00	209.54	47	109.54
510	J-255	100.00	0.00	97.93	-1	-2.07

FlexTable: Junction Table

Current Time: 19.00 hours

ID	Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)	Pressure Head (ft)
511	J-256	100.00	0.00	97.93	-1	-2.07
513	J-257	100.00	0.00	200.78	44	100.78
514	J-258	100.00	0.00	200.78	44	100.78
517	J-259	100.00	0.00	201.63	44	101.63
519	J-260	100.00	0.00	215.34	50	115.34
520	J-261	100.00	0.00	209.72	47	109.72
522	J-262	100.00	0.00	208.11	47	108.11
523	J-263	100.00	0.00	208.56	47	108.56
525	J-264	100.00	0.00	201.57	44	101.57
526	J-265	100.00	0.00	201.42	44	101.42
528	J-266	100.00	0.00	200.87	44	100.87
529	J-267	100.00	0.00	200.87	44	100.87
531	J-268	100.00	0.00	205.13	45	105.13
532	J-269	100.00	0.00	204.72	45	104.72
534	J-270	100.00	0.00	207.72	47	107.72
535	J-271	100.00	0.00	212.03	48	112.03
537	J-272	100.00	158.24	206.28	46	106.28
539	J-273	100.00	201.74	206.03	46	106.03
540	J-274	100.00	0.00	207.88	47	107.88
542	J-275	100.00	0.00	205.89	46	105.89
543	J-276	100.00	0.00	205.90	46	105.90
545	J-277	100.00	0.00	200.91	44	100.91
546	J-278	100.00	0.00	201.40	44	101.40
548	J-279	100.00	0.00	206.04	46	106.04
549	J-280	100.00	0.00	206.04	46	106.04
551	J-281	100.00	0.00	205.86	46	105.86
552	J-282	100.00	0.00	205.71	46	105.71
554	J-283	100.00	0.00	199.24	43	99.24
555	J-284	100.00	0.00	200.26	43	100.26
557	J-285	100.00	0.00	197.78	42	97.78
558	J-286	100.00	0.00	198.19	42	98.19
560	J-287	100.00	0.00	215.66	50	115.66
561	J-288	100.00	0.00	217.32	51	117.32
563	J-289	100.00	0.00	205.70	46	105.70
565	J-290	100.00	0.00	200.60	44	100.60
566	J-291	100.00	0.00	200.60	44	100.60
568	J-292	100.00	0.00	207.53	47	107.53
569	J-293	100.00	0.00	207.30	46	107.30
571	J-294	100.00	0.00	204.02	45	104.02
573	J-295	100.00	245.24	197.68	42	97.68
574	J-296	100.00	0.00	201.81	44	101.81
576	J-297	100.00	0.00	205.57	46	105.57
577	J-298	100.00	130.49	204.47	45	104.47
579	J-299	100.00	0.00	206.55	46	106.55
580	J-300	100.00	0.00	209.41	47	109.41
582	J-301	100.00	0.00	208.12	47	108.12
583	J-302	100.00	212.24	207.27	46	107.27
585	J-303	100.00	0.00	200.59	44	100.59
586	J-304	100.00	0.00	200.60	44	100.60
588	J-305	100.00	0.00	202.63	44	102.63
589	J-306	100.00	104.24	200.76	44	100.76
591	J-307	100.00	0.00	205.87	46	105.87
592	J-308	100.00	0.00	205.82	46	105.82
594	J-309	100.00	0.00	206.60	46	106.60
595	J-310	100.00	0.00	206.74	46	106.74
597	J-311	100.00	0.00	225.82	54	125.82
599	J-312	100.00	0.00	195.46	41	95.46
600	J-313	100.00	0.00	199.39	43	99.39
602	J-314	100.00	0.00	209.65	47	109.65
604	J-315	100.00	0.00	205.62	46	105.62
605	J-316	100.00	0.00	205.62	46	105.62
607	J-317	100.00	0.00	205.67	46	105.67
608	J-318	100.00	0.00	205.66	46	105.66
610	J-319	100.00	0.00	204.72	45	104.72
611	J-320	100.00	0.00	205.71	46	105.71
613	J-321	100.00	0.00	200.60	44	100.60
614	J-322	100.00	0.00	200.60	44	100.60
616	J-323	100.00	69.74	214.96	50	114.96
617	J-324	100.00	0.00	97.93	-1	-2.07
619	J-325	100.00	0.00	195.22	41	95.22
620	J-326	100.00	291.74	187.93	38	87.93
622	J-327	100.00	144.74	205.85	46	105.85
623	J-328	100.00	0.00	203.12	45	103.12
625	J-329	100.00	0.00	197.68	42	97.68
626	J-330	100.00	0.00	197.80	42	97.80
628	J-331	100.00	0.00	200.89	44	100.89
629	J-332	100.00	0.00	198.18	42	98.18
631	J-333	100.00	0.00	200.20	43	100.20
632	J-334	100.00	0.00	203.28	45	103.28
634	J-335	100.00	0.00	206.74	46	106.74
636	J-336	100.00	0.00	208.62	47	108.62
639	J-338	100.00	0.00	201.57	44	101.57
641	J-339	100.00	0.00	210.82	48	110.82
644	J-340	100.00	137.24	209.63	47	109.63
645	J-341	100.00	0.00	212.79	49	112.79

FlexTable: Junction Table

Current Time: 19.00 hours

ID	Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)	Pressure Head (ft)
650	J-342	100.00	0.00	207.77	47	107.77
653	J-343	100.00	0.00	206.10	46	106.10
655	J-344	100.00	0.00	202.46	44	102.46
657	J-345	100.00	0.00	205.75	46	105.75
658	J-346	100.00	0.00	205.89	46	105.89
660	J-347	100.00	0.00	210.36	48	110.36
661	J-348	100.00	0.00	221.47	53	121.47
663	J-349	100.00	0.00	202.31	44	102.31
664	J-350	100.00	0.00	200.60	44	100.60
666	J-351	100.00	0.00	209.37	47	109.37
667	J-352	100.00	0.00	212.69	49	112.69
670	J-353	100.00	0.00	209.20	47	109.20
671	J-354	100.00	0.00	207.39	46	107.39
673	J-355	100.00	261.74	205.87	46	105.87
674	J-356	100.00	0.00	97.93	-1	-2.07
676	J-357	100.00	0.00	207.97	47	107.97
677	J-358	100.00	0.00	207.97	47	107.97
682	J-359	100.00	0.00	205.92	46	105.92
683	J-360	100.00	0.00	205.63	46	105.63
685	J-361	100.00	0.00	215.90	50	115.90
686	J-362	100.00	0.00	208.70	47	108.70
688	J-363	100.00	0.00	216.75	51	116.75
689	J-364	100.00	0.00	208.81	47	108.81
691	J-365	100.00	0.00	201.97	44	101.97
692	J-366	100.00	0.00	208.27	47	108.27
695	J-367	100.00	0.00	205.88	46	105.88
696	J-368	100.00	0.00	204.42	45	104.42
701	J-369	100.00	0.00	208.18	47	108.18
707	J-370	100.00	0.00	206.43	46	106.43
708	J-371	100.00	0.00	206.43	46	106.43
710	J-372	100.00	0.00	201.76	44	101.76
711	J-373	100.00	0.00	201.76	44	101.76
713	J-374	100.00	0.00	200.00	43	100.00
718	J-375	100.00	0.00	208.51	47	108.51
723	J-378	100.00	0.00	213.79	49	113.79
724	J-379	100.00	0.00	213.79	49	113.79
726	J-380	100.00	0.00	205.99	46	105.99
728	J-381	100.00	0.00	201.77	44	101.77
729	J-382	100.00	0.00	201.74	44	101.74
737	J-383	100.00	0.00	205.71	46	105.71
738	J-384	100.00	0.00	205.69	46	105.69
741	J-385	100.00	0.00	97.93	-1	-2.07
750	J-386	100.00	0.00	206.55	46	106.55
751	J-387	100.00	0.00	206.47	46	106.47
753	J-388	100.00	0.00	206.32	46	106.32
756	J-389	100.00	0.00	203.84	45	103.84
757	J-390	100.00	0.00	203.73	45	103.73
759	J-391	100.00	0.00	201.73	44	101.73
760	J-392	100.00	0.00	201.73	44	101.73
762	J-393	100.00	0.00	201.78	44	101.78
764	J-394	100.00	0.00	207.56	47	107.56
765	J-395	100.00	0.00	207.56	47	107.56
767	J-396	100.00	0.00	207.58	47	107.58
768	J-397	100.00	0.00	207.58	47	107.58
775	J-398	100.00	0.00	205.86	46	105.86
776	J-399	100.00	0.00	205.86	46	105.86
778	J-400	100.00	0.00	222.33	53	122.33
779	J-401	100.00	0.00	222.33	53	122.33
781	J-402	100.00	0.00	97.93	-1	-2.07
783	J-403	100.00	0.00	194.35	41	94.35
787	J-404	100.00	0.00	206.23	46	106.23
788	J-405	100.00	0.00	206.21	46	106.21
790	J-406	100.00	0.00	209.47	47	109.47
794	J-407	100.00	0.00	97.93	-1	-2.07
796	J-408	100.00	0.00	204.50	45	104.50
797	J-409	100.00	0.00	204.49	45	104.49
801	J-410	100.00	0.00	211.69	48	111.69
802	J-411	100.00	42.74	211.69	48	111.69
804	J-412	100.00	0.00	210.01	48	110.01
806	J-413	100.00	0.00	204.59	45	104.59
807	J-414	100.00	0.00	204.58	45	104.58
809	J-415	100.00	0.00	206.43	46	106.43
810	J-416	100.00	0.00	206.43	46	106.43
812	J-417	100.00	0.00	216.89	51	116.89
813	J-418	100.00	158.24	217.05	51	117.05
820	J-419	100.00	0.00	205.03	45	105.03
821	J-420	100.00	0.00	205.03	45	105.03
823	J-421	100.00	0.00	201.83	44	101.83
824	J-422	100.00	0.00	201.79	44	101.79
841	J-423	100.00	0.00	206.04	46	106.04
842	J-424	100.00	0.00	206.04	46	106.04
853	J-425	100.00	0.00	208.16	47	108.16
855	J-426	100.00	0.00	203.20	45	103.20
856	J-427	100.00	0.00	203.20	45	103.20
859	J-428	100.00	0.00	205.63	46	105.63

FlexTable: Junction Table

Current Time: 19.00 hours

ID	Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)	Pressure Head (ft)
861	J-429	100.00	0.00	202.53	44	102.53
862	J-430	100.00	0.00	202.53	44	102.53
864	J-431	100.00	0.00	203.06	45	103.06
865	J-432	100.00	0.00	203.06	45	103.06
868	J-433	100.00	0.00	205.03	45	105.03
870	J-434	100.00	0.00	205.03	45	105.03
871	J-435	100.00	0.00	205.03	45	105.03
873	J-436	100.00	0.00	205.03	45	105.03
874	J-437	100.00	0.00	205.03	45	105.03
877	J-438	100.00	0.00	205.68	46	105.68
879	J-439	100.00	0.00	206.57	46	106.57
880	J-440	100.00	0.00	206.57	46	106.57
882	J-441	100.00	0.00	201.50	44	101.50
884	J-442	100.00	0.00	210.21	48	110.21
888	J-443	100.00	0.00	215.34	50	115.34
889	J-444	100.00	0.00	215.70	50	115.70
891	J-445	100.00	0.00	202.78	44	102.78
892	J-446	100.00	0.00	202.71	44	102.71
894	J-447	100.00	0.00	207.58	47	107.58
895	J-448	100.00	0.00	207.63	47	107.63
897	J-449	100.00	0.00	207.55	47	107.55
898	J-450	100.00	0.00	207.54	47	107.54
903	J-451	100.00	0.00	199.19	43	99.19
904	J-452	100.00	0.00	199.23	43	99.23
909	J-454	100.00	0.00	199.13	43	99.13
911	J-455	100.00	0.00	209.00	47	109.00
912	J-456	100.00	0.00	209.00	47	109.00
916	J-457	100.00	0.00	201.50	44	101.50
918	J-458	100.00	0.00	205.86	46	105.86
920	J-459	100.00	0.00	205.59	46	105.59
921	J-460	100.00	0.00	205.59	46	105.59
923	J-461	100.00	0.00	201.60	44	101.60
925	J-462	100.00	0.00	205.59	46	105.59
927	J-463	100.00	0.00	202.33	44	102.33
928	J-464	100.00	99.74	202.33	44	102.33
930	J-465	100.00	99.74	202.45	44	102.45
933	J-467	100.00	0.00	206.64	46	106.64
934	J-468	100.00	0.00	206.67	46	106.67
936	J-469	100.00	0.00	97.93	-1	-2.07
939	J-470	100.00	0.00	203.02	45	103.02
944	J-471	100.00	0.00	206.88	46	106.88
945	J-472	100.00	174.74	206.88	46	106.88
947	J-473	100.00	0.00	205.88	46	105.88
948	J-474	100.00	0.00	205.86	46	105.86
951	J-475	100.00	0.00	208.65	47	108.65
953	J-476	100.00	0.00	208.68	47	108.68
956	J-477	100.00	0.00	206.28	46	106.28
957	J-478	100.00	0.00	206.27	46	106.27
959	J-479	100.00	0.00	208.69	47	108.69
960	J-480	100.00	0.00	208.60	47	108.60
962	J-481	100.00	0.00	203.01	45	103.01
963	J-482	100.00	0.00	203.51	45	103.51
965	J-483	100.00	0.00	205.67	46	105.67
966	J-484	100.00	0.00	205.67	46	105.67
968	J-485	100.00	0.00	195.24	41	95.24
969	J-486	100.00	0.00	195.40	41	95.40
971	J-487	100.00	0.00	207.35	46	107.35
972	J-488	100.00	0.00	207.39	46	107.39
974	J-489	100.00	0.00	211.50	48	111.50
977	J-490	100.00	0.00	204.77	45	104.77
978	J-491	100.00	0.00	204.78	45	104.78
980	J-492	100.00	0.00	196.74	42	96.74
986	J-494	100.00	0.00	206.08	46	106.08
987	J-495	100.00	0.00	206.13	46	106.13
989	J-496	100.00	0.00	207.27	46	107.27
992	J-497	100.00	0.00	97.93	-1	-2.07
994	J-498	100.00	141.74	207.24	46	107.24
995	J-499	100.00	0.00	207.27	46	107.27
998	J-500	100.00	0.00	207.34	46	107.34
1001	J-502	100.00	536.24	198.41	43	98.41
1003	J-503	100.00	0.00	206.02	46	106.02
1005	J-504	100.00	0.00	199.12	43	99.12
1006	J-505	100.00	0.00	199.92	43	99.92
1008	J-506	100.00	66.74	196.78	42	96.78
1009	J-507	100.00	0.00	196.98	42	96.98
1011	J-508	100.00	0.00	206.43	46	106.43
1012	J-509	100.00	0.00	206.43	46	106.43
1014	J-510	100.00	0.00	206.57	46	106.57
1015	J-511	100.00	0.00	206.56	46	106.56
1017	J-512	100.00	0.00	206.02	46	106.02
1019	J-513	100.00	0.00	205.86	46	105.86
1020	J-514	100.00	0.00	205.86	46	105.86
1024	J-515	100.00	0.00	208.02	47	108.02
1030	J-516	100.00	0.00	214.22	49	114.22
1031	J-517	100.00	0.00	215.92	50	115.92

FlexTable: Junction Table

Current Time: 19.00 hours

ID	Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)	Pressure Head (ft)
1033	J-518	100.00	0.00	203.65	45	103.65
1034	J-519	100.00	0.00	203.55	45	103.55
1036	J-520	100.00	0.00	208.73	47	108.73
1037	J-521	100.00	0.00	208.68	47	108.68
1040	J-522	100.00	0.00	204.48	45	104.48
1043	J-523	100.00	0.00	202.48	44	102.48
1047	J-525	100.00	0.00	201.56	44	101.56
1048	J-526	100.00	0.00	201.56	44	101.56
1054	J-527	100.00	0.00	208.73	47	108.73
1057	J-528	100.00	0.00	197.52	42	97.52
1061	J-529	100.00	101.24	204.76	45	104.76
1062	J-530	100.00	0.00	204.98	45	104.98
1064	J-531	100.00	0.00	205.62	46	105.62
1066	J-532	100.00	150.74	206.51	46	106.51
1067	J-533	100.00	0.00	206.58	46	106.58
1069	J-534	100.00	0.00	97.93	-1	-2.07
1074	J-535	100.00	0.00	201.57	44	101.57
1075	J-536	100.00	0.00	201.48	44	101.48
1078	J-537	100.00	0.00	204.69	45	104.69
1082	J-538	100.00	0.00	199.13	43	99.13
1084	J-539	100.00	231.74	201.41	44	101.41
1088	J-540	100.00	0.00	208.45	47	108.45
1091	J-541	100.00	0.00	197.67	42	97.67
1095	J-542	100.00	0.00	201.77	44	101.77
1097	J-543	100.00	0.00	201.68	44	101.68
1100	J-544	100.00	0.00	202.65	44	102.65
1101	J-545	100.00	0.00	202.64	44	102.64
1103	J-546	100.00	0.00	201.52	44	101.52
1104	J-547	100.00	261.74	201.03	44	101.03
1106	J-548	100.00	0.00	199.17	43	99.17
1107	J-549	100.00	0.00	199.18	43	99.18
1110	J-550	100.00	0.00	206.56	46	106.56
1112	J-551	100.00	0.00	198.13	42	98.13
1113	J-552	100.00	116.24	197.53	42	97.53
1116	J-553	100.00	0.00	200.98	44	100.98
1117	J-554	100.00	0.00	200.88	44	100.88
1122	J-557	100.00	0.00	208.13	47	108.13
1125	J-558	100.00	0.00	207.42	46	107.42
1126	J-559	100.00	0.00	206.43	46	106.43
1128	J-560	100.00	0.00	207.34	46	107.34
1135	J-561	100.00	0.00	207.49	47	107.49
1136	J-562	100.00	0.00	206.74	46	106.74
1138	J-563	100.00	0.00	206.84	46	106.84
1139	J-564	100.00	0.00	207.13	46	107.13
1141	J-565	100.00	0.00	206.61	46	106.61
1142	J-566	100.00	0.00	206.74	46	106.74
1144	J-567	100.00	0.00	200.87	44	100.87
1145	J-568	100.00	0.00	200.58	44	100.58
1147	J-569	100.00	0.00	196.74	42	96.74
1152	J-571	100.00	0.00	199.16	43	99.16
1153	J-572	100.00	0.00	199.16	43	99.16
1161	J-577	100.00	0.00	200.87	44	100.87
1162	J-578	100.00	0.00	201.19	44	101.19
1164	J-579	100.00	0.00	202.61	44	102.61
1165	J-580	100.00	0.00	202.65	44	102.65
1167	J-581	100.00	0.00	199.14	43	99.14
1168	J-582	100.00	0.00	199.15	43	99.15
1170	J-583	100.00	0.00	210.21	48	110.21
1174	J-584	100.00	0.00	206.70	46	106.70
1177	J-585	100.00	0.00	206.58	46	106.58
1181	J-586	100.00	0.00	203.46	45	103.46
1183	J-587	100.00	0.00	206.43	46	106.43
1186	J-588	100.00	0.00	200.87	44	100.87
1188	J-589	100.00	0.00	198.92	43	98.92
1189	J-590	100.00	0.00	199.15	43	99.15
1191	J-591	100.00	0.00	204.76	45	104.76
1192	J-592	100.00	0.00	204.79	45	104.79
1194	J-593	100.00	0.00	201.33	44	101.33
1196	J-594	100.00	0.00	206.93	46	106.93
1197	J-595	100.00	0.00	206.26	46	106.26
1199	J-596	100.00	88.49	208.90	47	108.90
1201	J-597	100.00	180.74	203.70	45	103.70
1204	J-598	100.00	0.00	199.18	43	99.18
1205	J-599	100.00	0.00	199.15	43	99.15
1210	J-601	100.00	0.00	202.23	44	102.23
1212	J-602	100.00	0.00	196.83	42	96.83
1213	J-603	100.00	0.00	195.98	42	95.98
1216	J-604	100.00	0.00	201.68	44	101.68
1217	J-605	100.00	0.00	201.43	44	101.43
1219	J-606	100.00	0.00	206.26	46	106.26
1220	J-607	100.00	0.00	206.44	46	106.44
1222	J-608	100.00	0.00	203.20	45	103.20
1224	J-609	100.00	101.24	207.51	47	107.51
1225	J-610	100.00	0.00	207.74	47	107.74
1227	J-611	100.00	71.24	197.53	42	97.53

FlexTable: Junction Table

Current Time: 19.00 hours

ID	Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)	Pressure Head (ft)
1230	J-612	100.00	0.00	207.55	47	107.55
1231	J-613	100.00	0.00	207.56	47	107.56
1233	J-614	100.00	0.00	205.07	45	105.07
1235	J-615	100.00	0.00	196.75	42	96.75
1236	J-616	100.00	101.24	195.70	41	95.70
1238	J-617	100.00	0.00	97.93	-1	-2.07
1240	J-618	100.00	0.00	199.17	43	99.17
1241	J-619	100.00	0.00	199.14	43	99.14
1246	J-620	100.00	0.00	207.11	46	107.11
1247	J-621	100.00	0.00	210.82	48	110.82
1249	J-622	100.00	0.00	209.41	47	109.41
1252	J-623	100.00	0.00	205.07	45	105.07
1254	J-624	100.00	0.00	205.88	46	105.88
1257	J-625	100.00	0.00	199.69	43	99.69
1258	J-626	100.00	0.00	198.58	43	98.58
1262	J-627	100.00	0.00	199.65	43	99.65
1265	J-628	100.00	69.74	201.81	44	101.81
1267	J-629	100.00	0.00	206.25	46	106.25
1268	J-630	100.00	0.00	206.34	46	106.34
1270	J-631	100.00	0.00	199.32	43	99.32
1271	J-632	100.00	0.00	197.53	42	97.53
1275	J-633	100.00	107.24	204.48	45	104.48
1281	J-634	100.00	0.00	196.74	42	96.74
1283	J-635	100.00	122.24	206.63	46	106.63
1284	J-636	100.00	0.00	208.12	47	108.12
1287	J-637	100.00	0.00	206.02	46	106.02
1288	J-638	100.00	107.24	203.00	45	103.00
1294	J-639	100.00	0.00	204.28	45	104.28
1297	J-640	100.00	0.00	210.78	48	110.78
1298	J-641	100.00	0.00	212.81	49	112.81
1305	J-642	100.00	69.74	194.30	41	94.30
1322	J-643	100.00	0.00	211.64	48	111.64
1326	J-644	100.00	0.00	206.75	46	106.75
1330	J-645	100.00	0.00	215.72	50	115.72
1339	J-646	100.00	0.00	206.08	46	106.08
2181	J-647	100.00	0.00	224.07	54	124.07
2186	J-648	100.00	0.00	200.20	43	100.20
2192	J-649	100.00	0.00	196.73	42	96.73
2199	J-650	100.00	0.00	206.65	46	106.65
2204	J-651	100.00	0.00	210.56	48	110.56
2212	J-652	100.00	0.00	211.21	48	111.21
2215	J-653	100.00	0.00	200.60	44	100.60
2226	J-654	100.00	0.00	195.75	41	95.75
2245	J-655	100.00	0.00	194.31	41	94.31
2250	J-656	100.00	0.00	194.31	41	94.31
2276	J-657	100.00	213.74	194.29	41	94.29
2278	J-658	100.00	0.00	194.33	41	94.33
2280	J-659	100.00	0.00	194.31	41	94.31
2281	J-660	100.00	0.00	194.31	41	94.31
2283	J-661	100.00	0.00	194.31	41	94.31
2285	J-662	100.00	0.00	194.31	41	94.31
2288	J-663	100.00	0.00	194.33	41	94.33
2294	J-664	100.00	0.00	194.80	41	94.80
2297	J-665	100.00	0.00	194.36	41	94.36
2300	J-666	100.00	0.00	194.36	41	94.36
2302	J-667	100.00	0.00	194.36	41	94.36
2304	J-668	100.00	0.00	194.36	41	94.36
2306	J-669	100.00	0.00	194.36	41	94.36
2309	J-670	100.00	174.74	194.04	41	94.04
2311	J-671	100.00	0.00	194.79	41	94.79
2317	J-672	100.00	0.00	194.36	41	94.36
2325	J-673	100.00	0.00	198.48	43	98.48
2328	J-674	100.00	0.00	197.44	42	97.44
2330	J-675	100.00	51.74	197.06	42	97.06
2335	J-676	100.00	0.00	201.14	44	101.14
2338	J-677	100.00	0.00	201.14	44	101.14
2340	J-678	100.00	0.00	207.99	47	107.99
2343	J-679	100.00	0.00	207.99	47	107.99
2345	J-680	100.00	0.00	207.99	47	107.99
2347	J-681	100.00	0.00	207.99	47	107.99
2349	J-682	100.00	0.00	205.76	46	105.76
2352	J-683	100.00	0.00	205.33	46	105.33
2354	J-684	100.00	0.00	205.27	46	105.27
2356	J-685	100.00	128.24	205.02	45	105.02
2358	J-686	100.00	0.00	205.02	45	105.02
2362	J-687	100.00	0.00	205.15	45	105.15
2365	J-688	100.00	0.00	205.15	45	105.15
2369	J-689	100.00	0.00	204.77	45	104.77
2371	J-690	100.00	0.00	204.78	45	104.78
2373	J-691	100.00	0.00	205.29	46	105.29
2376	J-692	100.00	0.00	206.47	46	106.47
2378	J-693	100.00	0.00	207.27	46	107.27
2380	J-694	100.00	0.00	207.61	47	107.61
2382	J-695	100.00	0.00	207.83	47	107.83
2384	J-696	100.00	0.00	207.86	47	107.86

FlexTable: Junction Table

Current Time: 19.00 hours

ID	Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)	Pressure Head (ft)
2386	J-697	100.00	0.00	207.80	47	107.80
2388	J-698	100.00	0.00	207.65	47	107.65
2392	J-699	100.00	0.00	207.78	47	107.78
2396	J-700	100.00	0.00	206.72	46	106.72
2400	J-701	100.00	0.00	207.80	47	107.80
2404	J-702	100.00	0.00	208.07	47	108.07
2408	J-703	100.00	0.00	209.22	47	109.22
2414	J-705	100.00	0.00	209.32	47	109.32
2418	J-706	100.00	0.00	206.57	46	106.57
2420	J-707	100.00	0.00	206.57	46	106.57
2422	J-708	100.00	0.00	206.57	46	106.57
2423	J-709	100.00	0.00	206.57	46	106.57
2425	J-710	100.00	0.00	206.57	46	106.57
2429	J-711	100.00	0.00	206.57	46	106.57
2431	J-712	100.00	0.00	206.57	46	106.57
2434	J-713	100.00	0.00	206.56	46	106.56
2436	J-714	100.00	0.00	206.56	46	106.56
2440	J-715	100.00	0.00	206.71	46	106.71
2443	J-716	100.00	0.00	206.71	46	106.71
2445	J-717	100.00	0.00	206.71	46	106.71
2447	J-718	100.00	0.00	206.71	46	106.71
2449	J-719	100.00	0.00	206.71	46	106.71
2451	J-720	100.00	0.00	206.69	46	106.69
2454	J-721	100.00	0.00	206.75	46	106.75
2456	J-722	100.00	131.24	206.78	46	106.78
2458	J-723	100.00	0.00	206.80	46	106.80
2462	J-724	100.00	0.00	207.17	46	107.17
2464	J-725	100.00	0.00	207.36	46	107.36
2468	J-726	100.00	96.74	207.24	46	107.24
2470	J-727	100.00	0.00	208.20	47	108.20
2474	J-728	100.00	0.00	208.95	47	108.95
2476	J-729	100.00	92.24	208.98	47	108.98
2478	J-730	100.00	0.00	209.64	47	109.64
2480	J-731	100.00	0.00	209.70	47	109.70
2483	J-732	100.00	0.00	216.44	50	116.44
2495	J-733	100.00	0.00	206.26	46	106.26
2496	J-734	100.00	0.00	206.26	46	106.26
2498	J-735	100.00	0.00	206.26	46	106.26
2502	J-736	100.00	0.00	206.27	46	106.27
2505	J-737	100.00	0.00	206.27	46	106.27
2507	J-738	100.00	0.00	206.27	46	106.27
2509	J-739	100.00	0.00	206.27	46	106.27
2511	J-740	100.00	0.00	206.27	46	106.27
2513	J-741	100.00	0.00	206.31	46	106.31
2516	J-742	100.00	0.00	206.31	46	106.31
2518	J-743	100.00	0.00	206.29	46	106.29
2521	J-744	100.00	0.00	206.29	46	106.29
2523	J-745	100.00	0.00	206.28	46	106.28
2526	J-746	100.00	0.00	206.28	46	106.28
2528	J-747	100.00	0.00	205.86	46	105.86
2531	J-748	100.00	0.00	205.86	46	105.86
2533	J-749	100.00	0.00	205.85	46	105.85
2537	J-750	100.00	0.00	202.64	44	102.64
2538	J-751	100.00	0.00	202.64	44	102.64
2540	J-752	100.00	0.00	202.64	44	102.64
2542	J-753	100.00	0.00	202.64	44	102.64
2544	J-754	100.00	0.00	202.64	44	102.64
2548	J-755	100.00	0.00	202.64	44	102.64
2550	J-756	100.00	0.00	202.64	44	102.64
2554	J-757	100.00	0.00	202.64	44	102.64
2556	J-758	100.00	0.00	202.64	44	102.64
2560	J-759	100.00	0.00	202.64	44	102.64
2562	J-760	100.00	0.00	202.64	44	102.64
2564	J-761	100.00	0.00	202.64	44	102.64
2566	J-762	100.00	0.00	202.64	44	102.64
2568	J-763	100.00	0.00	202.64	44	102.64
2570	J-764	100.00	0.00	202.64	44	102.64
2572	J-765	100.00	0.00	202.64	44	102.64
2574	J-766	100.00	0.00	202.64	44	102.64
2576	J-767	100.00	0.00	202.64	44	102.64
2578	J-768	100.00	0.00	202.64	44	102.64
2583	J-769	100.00	0.00	202.64	44	102.64
2587	J-770	100.00	0.00	200.59	44	100.59
2590	J-771	100.00	0.00	202.10	44	102.10
2592	J-772	100.00	0.00	202.06	44	102.06
2594	J-773	100.00	0.00	202.09	44	102.09
2596	J-774	100.00	0.00	202.40	44	102.40
2598	J-775	100.00	0.00	202.12	44	102.12
2603	J-776	100.00	0.00	202.10	44	102.10
2606	J-777	100.00	0.00	202.10	44	102.10
2608	J-778	100.00	0.00	202.09	44	102.09
2612	J-779	100.00	0.00	202.09	44	102.09
2615	J-780	100.00	0.00	202.10	44	102.10
2619	J-781	100.00	0.00	202.10	44	102.10
2623	J-782	100.00	0.00	202.09	44	102.09

FlexTable: Junction Table

Current Time: 19.00 hours

ID	Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)	Pressure Head (ft)
2625	J-783	100.00	96.74	202.03	44	102.03
2634	J-784	100.00	0.00	201.78	44	101.78
2637	J-785	100.00	0.00	202.72	44	102.72
2644	J-786	100.00	0.00	210.47	48	110.47
2646	J-787	100.00	0.00	210.51	48	110.51
2648	J-788	100.00	0.00	210.58	48	110.58
2652	J-789	100.00	0.00	210.72	48	110.72
2654	J-790	100.00	0.00	210.76	48	110.76
2671	J-791	100.00	0.00	206.86	46	106.86
2680	J-792	100.00	0.00	225.05	54	125.05
2685	J-793	100.00	0.00	223.11	53	123.11
2700	J-794	100.00	0.00	207.53	47	107.53
2705	J-795	100.00	0.00	205.81	46	105.81
2720	J-797	100.00	0.00	228.33	56	128.33
2731	J-798	100.00	0.00	214.59	50	114.59
2776	J-799	100.00	179.24	194.82	41	94.82
2779	J-800	100.00	96.74	197.73	42	97.73
2782	J-801	100.00	90.74	206.56	46	106.56
2785	J-802	100.00	59.24	213.59	49	113.59
2787	J-803	100.00	226.49	218.62	51	118.62
2790	J-804	100.00	226.49	210.73	48	110.73
2796	J-805	100.00	56.24	197.79	42	97.79
2799	J-806	100.00	39.74	197.95	42	97.95
2805	J-807	100.00	41.24	194.78	41	94.78
2808	J-808	100.00	235.49	198.23	42	98.23
2811	J-809	100.00	179.24	202.26	44	102.26
2814	J-810	100.00	0.00	202.30	44	102.30
2818	J-811	100.00	152.24	204.46	45	104.46
2821	J-812	100.00	101.24	205.02	45	105.02
2824	J-813	100.00	194.24	205.49	46	105.49
2829	J-814	100.00	0.00	205.62	46	105.62
2831	J-815	100.00	75.74	205.59	46	105.59
2834	J-816	100.00	130.49	205.79	46	105.79
2837	J-817	100.00	110.24	206.49	46	106.49
2840	J-818	100.00	110.24	205.78	46	105.78
2843	J-819	100.00	174.74	206.23	46	106.23
2846	J-820	100.00	62.24	208.14	47	108.14
2850	J-821	100.00	137.24	216.35	50	116.35
2856	J-822	100.00	174.74	201.21	44	101.21
2860	J-823	100.00	0.00	216.30	50	116.30
2931	J-1045	100.00	0.00	201.95	44	101.95
2942	J-1048	100.00	0.00	200.77	44	100.77
2946	J-1049	100.00	0.00	199.19	43	99.19
2955	J-1050	100.00	0.00	209.27	47	109.27
2960	J-1052	100.00	0.00	201.30	44	101.30
2984	J-1053	100.00	0.00	195.21	41	95.21
3007	J-1058	100.00	0.00	194.56	41	94.56
3011	J-1059	100.00	0.00	205.59	46	105.59
3021	J-1060	100.00	0.00	215.23	50	115.23
3067	J-1069	100.00	0.00	194.30	41	94.30
3073	J-1070	100.00	0.00	194.31	41	94.31
3075	J-1071	100.00	0.00	194.33	41	94.33
3077	J-1072	100.00	0.00	194.31	41	94.31
3083	J-1073	100.00	0.00	194.83	41	94.83
3091	J-1074	100.00	0.00	204.38	45	104.38
3093	J-1075	100.00	0.00	204.38	45	104.38
3096	J-1076	100.00	0.00	204.39	45	104.39
3098	J-1077	100.00	0.00	204.43	45	104.43
3100	J-1078	100.00	0.00	204.43	45	104.43
3104	J-1079	100.00	0.00	204.43	45	104.43
3107	J-1080	100.00	0.00	204.42	45	104.42
3109	J-1081	100.00	0.00	204.40	45	104.40
3111	J-1082	100.00	0.00	204.38	45	104.38
3115	J-1083	100.00	0.00	204.42	45	104.42
3118	J-1084	100.00	0.00	204.42	45	104.42
3120	J-1085	100.00	0.00	204.43	45	104.43
3122	J-1086	100.00	0.00	204.43	45	104.43
3124	J-1087	100.00	0.00	204.44	45	104.44
3126	J-1088	100.00	0.00	204.58	45	104.58
3130	J-1089	100.00	0.00	204.43	45	104.43
3134	J-1090	100.00	0.00	204.65	45	104.65
3138	J-1091	100.00	0.00	203.61	45	103.61
3139	J-1092	100.00	0.00	203.61	45	103.61
3141	J-1093	100.00	0.00	203.61	45	103.61
3143	J-1094	100.00	0.00	203.61	45	103.61
3145	J-1095	100.00	0.00	203.61	45	103.61
3147	J-1096	100.00	0.00	203.61	45	103.61
3151	J-1097	100.00	0.00	209.67	47	109.67
3153	J-1098	100.00	0.00	209.44	47	109.44
3155	J-1099	100.00	0.00	209.34	47	109.34
3157	J-1100	100.00	0.00	207.03	46	107.03
3161	J-1101	100.00	0.00	209.12	47	109.12
3165	J-1102	100.00	0.00	202.41	44	102.41
3168	J-1103	100.00	0.00	202.35	44	102.35
3170	J-1104	100.00	0.00	202.35	44	102.35

FlexTable: Junction Table

Current Time: 19.00 hours

ID	Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)	Pressure Head (ft)
3173	J-1105	100.00	0.00	202.35	44	102.35
3176	J-1106	100.00	0.00	202.35	44	102.35
3180	J-1107	100.00	0.00	202.35	44	102.35
3183	J-1108	100.00	0.00	202.36	44	102.36
3187	J-1109	100.00	0.00	202.35	44	102.35
3190	J-1110	100.00	0.00	202.36	44	102.36
3195	J-1111	100.00	0.00	202.37	44	102.37
3199	J-1112	100.00	0.00	202.63	44	102.63
3201	J-1113	100.00	0.00	202.62	44	102.62
3203	J-1114	100.00	0.00	202.55	44	102.55
3205	J-1115	100.00	0.00	202.48	44	102.48
3210	J-1117	100.00	0.00	202.64	44	102.64
3213	J-1118	100.00	0.00	202.62	44	102.62
3219	J-1119	100.00	0.00	200.22	43	100.22
3221	J-1120	100.00	0.00	200.87	44	100.87
3223	J-1121	100.00	0.00	200.76	44	100.76
3228	J-1123	100.00	0.00	210.95	48	110.95
3231	J-1124	100.00	0.00	210.71	48	110.71
3235	J-1125	100.00	0.00	208.88	47	108.88
3239	J-1126	100.00	0.00	208.70	47	108.70
3273	J-1127	100.00	0.00	201.70	44	101.70
3336	J-1136	100.00	0.00	205.79	46	105.79
3343	J-1138	100.00	0.00	207.05	46	107.05
3348	J-1140	100.00	0.00	207.92	47	107.92
3355	J-1141	100.00	0.00	206.25	46	106.25
3359	J-1142	100.00	0.00	206.00	46	106.00
3369	J-1144	100.00	0.00	205.96	46	105.96
3373	J-1145	100.00	0.00	205.96	46	105.96
3375	J-1146	100.00	0.00	206.42	46	106.42
3378	J-1147	100.00	0.00	206.41	46	106.41
3383	J-1148	100.00	0.00	215.35	50	115.35
3389	J-1149	100.00	0.00	208.66	47	108.66
3393	J-1150	100.00	0.00	208.57	47	108.57
3397	J-1151	100.00	0.00	207.04	46	107.04
3402	J-1152	100.00	0.00	208.90	47	108.90
3405	J-1153	100.00	0.00	209.40	47	109.40
3416	J-1156	100.00	0.00	205.86	46	105.86
3420	J-1157	100.00	0.00	205.86	46	105.86
3431	J-1158	100.00	0.00	200.30	43	100.30
3435	J-1159	100.00	0.00	197.06	42	97.06
3441	J-1160	100.00	0.00	204.46	45	104.46
3443	J-1161	100.00	0.00	204.46	45	104.46
3445	J-1162	100.00	0.00	204.46	45	104.46
3447	J-1163	100.00	0.00	204.46	45	104.46
3451	J-1164	100.00	0.00	205.79	46	105.79
3453	J-1165	100.00	0.00	205.71	46	105.71
3464	J-1166	100.00	0.00	206.42	46	106.42
3466	J-1167	100.00	0.00	206.86	46	106.86
3470	J-1168	100.00	0.00	206.29	46	106.29
3472	J-1169	100.00	0.00	206.17	46	106.17
3476	J-1170	100.00	0.00	206.17	46	106.17
3479	J-1171	100.00	0.00	206.31	46	106.31
3486	J-1173	100.00	0.00	205.86	46	105.86
3490	J-1174	100.00	0.00	205.91	46	105.91
3507	J-1175	100.00	0.00	209.40	47	109.40
3515	J-1177	100.00	0.00	204.42	45	104.42
3518	J-1178	100.00	0.00	205.86	46	105.86
3523	J-1179	100.00	0.00	206.09	46	106.09
3535	J-1180	100.00	0.00	200.22	43	100.22
3539	J-1181	100.00	0.00	200.88	44	100.88
3546	J-1183	100.00	0.00	204.40	45	104.40
3563	J-1185	100.00	0.00	208.70	47	108.70
3567	J-1186	100.00	0.00	208.70	47	108.70
3571	J-1187	100.00	0.00	208.46	47	108.46
3585	J-1190	100.00	0.00	200.25	43	100.25
3592	J-1192	100.00	0.00	203.16	45	103.16
3595	J-1193	100.00	0.00	201.78	44	101.78
3600	J-1194	100.00	0.00	200.30	43	100.30
3604	J-1195	100.00	0.00	207.79	47	107.79
3615	J-1198	100.00	0.00	196.01	85	96.01
3617	J-1199	100.00	0.00	196.30	85	96.30
3619	J-1200	100.00	0.00	196.47	42	96.47

Scenario: 2037
Low Pressure Analysis
Pipe Table
Current Time: 19.00 hours @Peak Flow

ID	Label	Length (Scaled) (ft)	Diameter (In)	Flow (gpm)	Material	Headloss (ft)	Pressure (Stop) (psi)	Pressure (Start) (psi)	Notes
2766	P-939	239	30.0	30,051.07	PVC	2.93	6	0	Raw Water Line
2724	P-928	342	20.0	7,866.52	PVC	2.52	54	56	
2681	P-910	165	20.0	6,149.00	PVC	0.77	54	54	
2682	P-911	232	20.0	5,805.75	PVC	0.97	54	54	
2688	P-915	388	20.0	4,374.68	PVC	0.96	53	54	
2697	P-916	476	20.0	3,504.12	PVC	0.78	53	53	
2698	P-917	186	20.0	2,965.15	PVC	0.22	53	53	
1378	P-208	172	10.0	0.00	PVC	0.00	51	53	
1380	P-210	201	10.0	587.44	PVC	0.36	53	53	
2726	P-929	118	14.0	2,622.34	PVC	0.65	2	2	Trasfer Line
2727	P-930	66	14.0	2,622.34	PVC	0.36	56	54	
3254	P-308	116	14.0	2,622.11	PVC	0.64	2	2	Trasfer Line
3255	P-309	74	14.0	2,622.11	PVC	0.40	56	54	
2717	P-926	118	14.0	2,622.06	PVC	0.65	2	6	Trasfer Line
1391	P-216	814	12.0	1,696.24	PVC	4.21	51	53	
104	P-9	130	12.0	-1,706.00	PVC	0.68	48	48	
1581	P-318	470	12.0	-1,320.38	PVC	1.53	48	47	
1085	P-173	589	8.0	0.00	PVC	0.00	-1	-1	Trasfer Line
2669	P-904	351	8.0	0.00	PVC	0.00	3	-1	Trasfer Line
2674	P-907	1,398	8.0	0.00	PVC	0.00	-1	-1	Trasfer Line
2740	P-936	177	10.0	0.00	PVC	0.00	2	6	Trasfer Line
2742	P-938	39	8.0	0.00	PVC	0.00	-1	-2	Trasfer Line
127	P-13	1,465	12.0	977.37	PVC	2.73	50	51	
2670	P-905	107	8.0	788.05	PVC	0.97	2	3	Trasfer Line
2732	P-932	62	16.0	788.05	PVC	0.02	50	50	
2733	P-933	88	8.0	788.05	PVC	0.79	50	53	
2149	P-659	64	6.0	297.55	PVC	0.38	53	53	
2863	P-989	298	8.0	162.48	PVC	0.14	50	50	
2484	P-816	424	8.0	202.35	PVC	0.31	50	51	
2170	P-675	538	10.0	-717.32	PVC	1.37	47	46	
2159	P-665	182	6.0	681.48	PVC	5.08	50	53	
2862	P-988	988	8.0	-587.44	PVC	5.17	53	50	
1698	P-382	498	8.0	555.11	PVC	2.35	49	50	
1864	P-484	47	6.0	515.57	PVC	0.78	48	49	
1392	P-217	57	12.0	718.87	PVC	0.06	51	51	
2530	P-839	140	8.0	27.63	PVC	0.00	46	46	
2791	P-948	1,985	8.0	672.49	PVC	13.34	48	54	
2488	P-818	1,258	8.0	578.85	PVC	6.40	48	50	
1469	P-258	30	8.0	105.36	PVC	0.01	46	46	
3385	P-646(2)	624	8.0	608.24	PVC	3.48	48	50	
2174	P-677	246	8.0	-3.04	PVC	0.00	46	46	
2792	P-949	647	8.0	446.00	PVC	2.03	47	48	
1445	P-244	24	10.0	-553.36	PVC	0.04	46	46	
1678	P-375	161	8.0	53.98	PVC	0.01	46	46	
2529	P-838	159	8.0	38.06	PVC	0.01	46	46	
749	P-111	45	8.0	338.18	PVC	0.08	46	46	
2197	P-688	920	10.0	151.13	PVC	0.13	46	46	
2493	P-821	756	10.0	151.13	PVC	0.11	46	46	
1454	P-249	634	8.0	111.42	PVC	0.15	46	46	
1456	P-250	294	8.0	93.46	PVC	0.05	46	46	
2963	P-229	2,633	10.0	786.39	PVC	7.97	44	47	
2172	P-676	577	8.0	-22.01	PVC	0.01	46	46	
1405	P-223	1,788	10.0	82.96	PVC	0.08	46	46	
1470	P-259	118	8.0	109.67	PVC	0.03	46	46	
1929	P-523	109	6.0	182.02	PVC	0.26	47	47	
1930	P-524	341	6.0	182.02	PVC	0.83	47	47	
1938	P-527	176	8.0	-358.41	PVC	0.37	50	50	
1936	P-526	229	8.0	-358.41	PVC	0.48	51	50	
3461	P-363	64	8.0	569.62	PVC	0.32	48	48	
1324	P-200	158	6.0	396.30	PVC	1.62	48	48	
2130	P-647	92	8.0	396.30	PVC	0.23	48	48	
3371	P-374(2)	461	8.0	94.79	PVC	0.08	46	46	
2645	P-895	304	8.0	-173.35	PVC	0.17	48	48	
2647	P-896	77	8.0	-173.35	PVC	0.04	48	48	
2649	P-897	139	8.0	-173.35	PVC	0.08	48	48	
3566	P-417	53	6.0	0.53	PVC	0.00	47	47	
3384	P-646(1)	220	8.0	495.67	PVC	0.84	50	50	
2650	P-898	723	8.0	-90.41	PVC	0.12	48	48	
2169	P-674	1,364	10.0	-462.46	PVC	1.55	46	46	
3510	P-384	586	8.0	299.66	PVC	0.88	47	47	
1805	P-445	764	8.0	175.29	PVC	0.43	43	43	
3274	P-892(2)(1)	53	6.0	260.55	PVC	0.25	44	44	
2489	P-819	48	8.0	637.82	PVC	0.29	47	48	
2471	P-808	159	6.0	385.42	PVC	1.55	47	47	
1885	P-499	38	8.0	395.83	PVC	0.09	46	46	
3148	P-214(1)	1,401	12.0	470.54	PVC	0.67	45	45	
1386	P-212	881	12.0	470.54	PVC	0.42	44	45	
3149	P-214(2)	844	12.0	470.54	PVC	0.41	45	45	
2409	P-775	653	10.0	220.05	PVC	0.19	47	47	
256	P-33	173	6.0	202.28	PVC	0.51	51	51	
3230	P-238(2)	31	10.0	429.29	PVC	0.03	48	48	
1423	P-233	251	8.0	429.29	PVC	0.73	47	48	
3593	P-623(1)	1,578	8.0	331.57	PVC	2.86	45	46	
2094	P-625	332	8.0	331.57	PVC	0.60	46	46	

FlexTable: Pipe Table
Current Time: 19.00 hours

ID	Label	Length (Scaled) (ft)	Diameter (in)	Flow (gpm)	Material	Headloss (ft)	Pressure (psi)	Pressure (Stop) (psi)	Pressure (Start) (psi)	Notes
2099	P-629	18	6.0	71.15	PVC	0.01	46	46	46	
1643	P-354	452	6.0	48.07	PVC	0.09	46	46	46	
2066	P-605	188	8.0	516.59	PVC	0.78	51	51	51	
736	P-110	59	8.0	154.92	PVC	0.03	46	46	46	
1772	P-426	122	8.0	154.92	PVC	0.05	46	46	46	
2687	P-914	2,049	6.0	309.79	PVC	13.31	48	53	53	
2147	P-657	428	6.0	318.57	PVC	2.93	49	50	50	
80	P-8	1,043	10.0	148.91	PVC	0.14	46	46	46	
70	P-5	692	10.0	89.41	PVC	0.04	46	46	46	
78	P-7	1,210	10.0	89.41	PVC	0.07	46	46	46	
2494	P-822	110	10.0	89.41	PVC	0.01	46	46	46	
3598	P-423	1,568	8.0	224.33	PVC	1.38	44	45	45	
3500	P-375	85	8.0	160.01	PVC	0.04	46	46	46	
1379	P-209	129	10.0	-383.92	PVC	0.10	53	53	53	
1639	P-352	359	6.0	-82.42	PVC	0.20	46	46	46	
1879	P-495	581	8.0	221.09	PVC	0.50	46	46	46	
1886	P-500	283	8.0	221.09	PVC	0.24	46	46	46	
1387	P-213	94	12.0	346.59	PVC	0.03	45	45	45	
1655	P-361	278	6.0	-43.89	PVC	0.05	46	46	46	
3480	P-368(1)	164	8.0	190.13	PVC	0.11	46	46	46	
3511	P-385	55	8.0	316.74	PVC	0.09	47	47	47	
2061	P-604	571	8.0	358.35	PVC	1.20	50	51	51	
2060	P-603	661	6.0	358.35	PVC	5.62	47	50	50	
3509	P-383	83	8.0	358.35	PVC	0.17	47	47	47	
2179	P-681	624	8.0	-298.55	PVC	0.93	48	47	47	
1094	P-174	730	8.0	321.11	PVC	1.25	44	45	45	
1699	P-383	364	8.0	231.01	PVC	0.34	48	48	48	
2557	P-852	527	12.0	341.25	PVC	0.14	44	44	44	
2558	P-853	575	12.0	341.25	PVC	0.15	44	44	44	
1779	P-428	211	8.0	72.45	PVC	0.02	43	43	43	
3406	P-89(1)	216	6.0	159.49	PVC	0.41	47	48	48	
422	P-76	410	6.0	162.43	PVC	0.81	47	48	48	
1904	P-511	270	8.0	26.91	PVC	0.00	46	46	46	
1501	P-278	301	6.0	7.28	PVC	0.00	46	46	46	
1502	P-279	334	6.0	7.28	PVC	0.00	46	46	46	
3498	P-373	31	8.0	7.28	PVC	0.00	46	46	46	
1647	P-357	311	6.0	-59.34	PVC	0.09	46	46	46	
3533	P-398	117	8.0	536.24	PVC	0.52	43	43	43	
3499	P-374	1,258	8.0	99.93	PVC	0.25	46	46	46	
2438	P-791	1,028	8.0	2.22	PVC	0.00	46	46	46	
2490	P-820	1,804	8.0	2.22	PVC	0.00	46	46	46	
2090	P-621	64	8.0	85.81	PVC	0.01	47	47	47	
3467	P-906(1)	1,373	6.0	88.04	PVC	0.87	46	47	47	
2049	P-595	191	8.0	340.35	PVC	0.36	46	47	47	
1610	P-335	762	6.0	38.73	PVC	0.11	44	44	44	
2083	P-615	63	8.0	181.95	PVC	0.04	47	47	47	
2089	P-620	389	8.0	181.95	PVC	0.23	47	47	47	
786	P-119	102	8.0	100.79	PVC	0.02	46	46	46	
1928	P-522	1,335	6.0	110.67	PVC	1.29	46	47	47	
3015	P-632(2)	483	6.0	252.35	PVC	2.15	45	46	46	
2097	P-628	238	6.0	-49.44	PVC	0.05	46	46	46	
1623	P-345	222	8.0	-161.06	PVC	0.11	44	44	44	
2472	P-809	335	6.0	185.67	PVC	0.84	46	47	47	
1477	P-263	517	6.0	-108.84	PVC	0.48	46	46	46	
1004	P-163	376	8.0	-360.95	PVC	0.80	43	43	43	
795	P-120	65	8.0	80.53	PVC	0.01	45	45	45	
805	P-124	72	8.0	80.53	PVC	0.01	45	45	45	
2160	P-666	247	6.0	228.85	PVC	0.92	50	50	50	
3607	P-426	43	8.0	258.38	PVC	0.05	47	47	47	
425	P-77	419	6.0	-4.31	PVC	0.00	46	46	46	
3102	P-262(2)	558	12.0	264.00	Ductile Iron	0.12	45	45	45	
1810	P-450	256	8.0	56.77	PVC	0.02	43	43	43	
2148	P-658	42	6.0	174.15	PVC	0.09	49	49	49	
1831	P-465	151	8.0	-193.62	PVC	0.10	44	44	44	
1880	P-496	292	8.0	130.73	PVC	0.09	46	46	46	
3549	P-406	2,714	8.0	-2.14	PVC	0.00	46	46	46	
3158	P-961(1)	1,510	6.0	-90.90	Asbestos Cement	1.15	46	46	46	
3135	P-262(1)(1)	163	12.0	372.41	Ductile Iron	0.07	45	45	45	
1632	P-350	52	6.0	-229.22	PVC	0.19	45	45	45	
2969	P-271(1)	372	10.0	-6.45	PVC	0.00	46	46	46	
1489	P-270	320	10.0	-6.45	PVC	0.00	46	46	46	
1492	P-273	147	10.0	-6.45	PVC	0.00	46	46	46	
186	P-19	40	6.0	120.59	PVC	0.05	46	46	46	
725	P-108	34	6.0	120.59	PVC	0.04	46	46	46	
1903	P-510	57	8.0	75.49	PVC	0.01	46	46	46	
2460	P-802	114	6.0	75.49	PVC	0.05	46	46	46	
1620	P-342	39	8.0	105.45	PVC	0.01	44	44	44	
2391	P-763	297	6.0	78.67	PVC	0.15	47	47	47	
1625	P-346	304	8.0	-141.98	PVC	0.11	44	44	44	
3207	P-340(2)	901	8.0	120.71	PVC	0.25	44	44	44	
1748	P-415	286	6.0	42.42	Asbestos Cement	0.05	45	45	45	
1804	P-444	268	8.0	67.52	PVC	0.03	43	43	43	
3014	P-632(1)	533	6.0	82.83	PVC	0.30	46	46	46	
2081	P-614	451	8.0	247.33	PVC	0.48	47	47	47	

FlexTable: Pipe Table
Current Time: 19.00 hours

ID	Label	Length (Scaled) (ft)	Diameter (in)	Flow (gpm)	Material	Headloss (ft)	Pressure (Stop) (psi)	Pressure (Start) (psi)	Notes
2139	P-652	253	8.0	247.33	PVC	0.27	47	47	
1533	P-291	1,714	8.0	185.01	PVC	1.06	43	43	
1554	P-302	214	6.0	185.01	PVC	0.54	43	44	
1795	P-439	281	8.0	65.78	PVC	0.03	43	43	
1806	P-445	563	8.0	65.78	PVC	0.05	43	43	
2048	P-594	210	8.0	165.61	PVC	0.11	46	46	
3370	P-374(1)	440	8.0	-65.22	PVC	0.04	46	46	
1925	P-521	863	8.0	-140.90	PVC	0.32	47	47	
1652	P-359	88	6.0	-68.80	PVC	0.04	46	46	
210	P-22	79	6.0	41.97	PVC	0.01	47	47	
365	P-63	460	8.0	-6.06	PVC	0.00	46	46	
3407	P-89(2)	497	6.0	-58.69	PVC	0.15	47	47	
437	P-80	594	6.0	123.47	PVC	0.70	43	44	
1471	P-260	48	6.0	39.48	PVC	0.01	46	46	
3570	P-418	51	6.0	168.62	PVC	0.11	47	47	
727	P-109	146	8.0	102.07	PVC	0.03	44	44	
1741	P-411	345	6.0	63.81	PVC	0.12	45	45	
3087	P-86(1)	611	6.0	63.81	PVC	0.21	45	45	
3475	P-369	742	8.0	90.63	PVC	0.12	46	46	
3481	P-368(2)	136	8.0	90.63	PVC	0.02	46	46	
3596	P-348(1)	1,175	6.0	73.11	PVC	0.53	44	44	
2835	P-971	496	6.0	35.29	PVC	0.06	46	46	
3136	P-262(1)(2)	1,006	12.0	267.56	Ductile Iron	0.22	45	45	
2827	P-967	326	6.0	-44.11	PVC	0.06	46	46	
2986	P-100(2)	1,254	6.0	291.74	PVC	7.29	38	41	
2707	P-923	223	6.0	-26.35	PVC	0.02	46	46	
2051	P-596	304	8.0	212.89	PVC	0.24	46	46	
2466	P-805	646	6.0	103.98	PVC	0.56	46	46	
1512	P-283	180	8.0	322.55	PVC	0.31	41	41	
1251	P-197	1,607	8.0	220.70	PVC	1.37	45	45	
2075	P-609	64	8.0	178.01	PVC	0.04	47	47	
1627	P-347	87	8.0	-241.72	PVC	0.09	44	44	
1629	P-348	516	8.0	-241.72	PVC	0.52	45	44	
1633	P-351	226	8.0	-241.72	PVC	0.23	45	45	
401	P-71	382	6.0	-13.65	PVC	0.01	46	46	
2633	P-889	146	10.0	512.79	PVC	0.20	44	44	
2353	P-745	352	8.0	266.61	PVC	0.43	46	46	
1809	P-449	268	8.0	41.99	PVC	0.01	43	43	
2439	P-792	255	8.0	-5.81	PVC	0.00	46	46	
2419	P-782	60	8.0	8.03	PVC	0.00	46	46	
2426	P-784	138	8.0	8.03	PVC	0.00	46	46	
2437	P-790	748	8.0	8.03	PVC	0.00	46	46	
1486	P-268	361	6.0	-127.68	PVC	0.45	44	44	
1488	P-269	228	6.0	-127.68	PVC	0.29	44	44	
1631	P-349	570	6.0	-127.68	PVC	0.72	45	44	
1621	P-343	64	8.0	114.02	PVC	0.02	44	44	
3512	P-386	1,124	8.0	283.45	PVC	1.53	46	47	
890	P-143	216	8.0	129.29	PVC	0.07	44	44	
3208	P-300	214	8.0	129.29	PVC	0.07	44	44	
3218	P-299(2)(2)	198	8.0	129.29	PVC	0.06	44	44	
265	P-36	135	6.0	245.24	PVC	0.57	41	41	
2324	P-729	139	8.0	245.07	PVC	0.14	42	42	
1599	P-328	217	6.0	235.81	PVC	0.85	44	44	
1657	P-362	358	6.0	-36.26	PVC	0.04	46	46	
1659	P-364	670	6.0	-36.26	PVC	0.08	46	46	
1827	P-462	512	8.0	429.06	PVC	1.50	44	45	
377	P-67	344	6.0	-106.35	PVC	0.31	46	46	
3275	P-892(2)(2)	1,362	6.0	-96.21	PVC	1.01	44	44	
2387	P-761	119	6.0	79.33	PVC	0.06	47	47	
2406	P-773	404	6.0	79.33	PVC	0.21	47	47	
2158	P-664	127	8.0	-45.60	PVC	0.01	46	46	
2962	P-736(2)	170	6.0	106.19	PVC	0.15	44	44	
2337	P-737	257	6.0	106.19	PVC	0.23	44	44	
2227	P-702	120	8.0	338.86	PVC	0.23	41	42	
1802	P-443	280	8.0	52.75	PVC	0.02	43	43	
389	P-69	534	6.0	222.74	PVC	1.88	43	43	
1557	P-304	502	6.0	183.06	PVC	1.23	44	44	
3601	P-348(2)(1)	1,711	6.0	104.04	PVC	1.47	43	44	
2399	P-768	698	6.0	99.31	PVC	0.55	46	46	
313	P-52	221	6.0	95.76	PVC	0.16	43	44	
1448	P-246	2,603	6.0	95.76	PVC	1.92	43	43	
2105	P-633	323	6.0	113.29	PVC	0.33	45	45	
2815	P-959	811	6.0	113.29	PVC	0.82	44	45	
1415	P-230	222	6.0	212.33	PVC	0.72	47	47	
1842	P-469	660	8.0	-101.10	PVC	0.13	44	44	
2058	P-601	587	6.0	150.30	PVC	1.00	47	48	
2841	P-975	832	6.0	66.99	PVC	0.32	46	46	
1531	P-289	561	8.0	362.07	PVC	1.20	42	43	
1828	P-463	701	8.0	118.23	PVC	0.19	44	44	
2844	P-977	1,090	8.0	70.32	PVC	0.11	46	46	
1547	P-299	1,460	6.0	157.36	PVC	2.71	42	44	
2822	P-963	1,206	6.0	75.00	PVC	0.57	45	46	
1781	P-429	66	8.0	433.39	PVC	0.20	43	43	
1472	P-261	295	6.0	-3.42	PVC	0.00	46	46	

FlexTable: Pipe Table
Current Time: 19.00 hours

ID	Label	Length (Scaled) (ft)	Diameter (in)	Flow (gpm)	Material	Headloss (ft)	Pressure (Stop) (psi)	Pressure (Start) (psi)	Notes
852	P-130	97	8.0	124.73	PVC	0.03	47	47	
2453	P-799	238	8.0	-48.58	PVC	0.01	46	46	
2442	P-793	687	8.0	-48.58	PVC	0.04	46	46	
2783	P-943	838	8.0	55.77	PVC	0.06	46	46	
1958	P-537	185	8.0	72.52	PVC	0.02	47	47	
2836	P-972	212	6.0	-95.20	PVC	0.15	46	46	
1735	P-407	577	8.0	11.31	PVC	0.00	46	46	
1822	P-459	711	8.0	110.54	PVC	0.17	44	44	
2706	P-922	187	6.0	0.26	PVC	0.00	46	46	
3502	P-377	1,256	8.0	16.85	PVC	0.01	46	46	
3465	P-366	163	6.0	102.08	PVC	0.14	46	46	
3399	P-93(2)	407	6.0	158.24	PVC	0.76	46	46	
2427	P-785	517	8.0	4.83	PVC	0.00	46	46	
883	P-140	217	8.0	147.74	PVC	0.09	48	48	
1584	P-321	746	6.0	147.74	PVC	1.23	47	48	
715	P-105	316	8.0	-177.05	PVC	0.18	43	43	
1534	P-292	1,195	8.0	-177.05	PVC	0.68	43	43	
2777	P-940	1,221	8.0	135.25	PVC	0.42	41	41	
3550	P-407	1,139	8.0	5.29	PVC	0.00	46	46	
2360	P-748	121	8.0	138.37	PVC	0.04	45	45	
2076	P-610	390	8.0	35.00	PVC	0.01	47	47	
2077	P-611	262	8.0	143.01	PVC	0.10	47	47	
755	P-112	46	8.0	389.10	PVC	0.11	45	45	
2475	P-811	416	8.0	-265.63	PVC	0.50	47	47	
922	P-151	225	8.0	101.05	PVC	0.05	44	44	
1819	P-456	367	8.0	-126.41	PVC	0.11	44	44	
2364	P-750	385	8.0	132.74	PVC	0.13	45	45	
2190	P-685	287	8.0	139.96	PVC	0.11	42	42	
1644	P-355	774	6.0	130.49	PVC	1.01	45	46	
1820	P-457	302	8.0	-200.30	PVC	0.22	44	44	
3206	P-340(1)	71	8.0	-8.58	PVC	0.00	44	44	
2074	P-608	626	6.0	131.15	PVC	0.83	47	47	
1510	P-282	314	8.0	164.87	PVC	0.16	41	41	
1663	P-366	236	6.0	60.25	PVC	0.07	46	46	
1374	P-207	751	8.0	64.55	PVC	0.07	44	44	
1532	P-290	875	8.0	197.91	PVC	0.61	42	42	
2708	P-924	653	6.0	28.63	PVC	0.05	45	45	
3086	P-261	179	8.0	113.69	PVC	0.04	41	41	
2191	P-686	1,384	8.0	172.45	PVC	0.75	42	42	
1722	P-400	34	6.0	118.62	PVC	0.04	47	47	
2701	P-918	206	6.0	118.62	PVC	0.23	47	47	
2704	P-921	100	6.0	118.62	PVC	0.11	46	47	
2355	P-746	233	8.0	117.97	PVC	0.06	46	46	
2363	P-749	444	8.0	117.97	PVC	0.12	45	46	
1414	P-229	616	6.0	72.85	PVC	0.27	47	47	
1664	P-367	89	6.0	115.49	PVC	0.09	46	46	
316	P-53	310	6.0	115.49	PVC	0.32	46	46	
362	P-62	281	6.0	115.49	PVC	0.29	46	46	
1600	P-329	432	6.0	111.32	PVC	0.42	44	44	
1598	P-327	465	6.0	111.32	PVC	0.45	44	44	
2052	P-597	1,224	8.0	38.15	PVC	0.04	46	46	
1775	P-427	316	8.0	17.70	PVC	0.00	43	43	
3106	P-266(2)	291	8.0	-3.56	PVC	0.00	45	45	
2323	P-728	232	8.0	105.11	PVC	0.05	42	42	
1516	P-284	1,511	8.0	166.41	PVC	0.76	42	42	
60	P-4	306	10.0	107.24	PVC	0.02	46	46	
3594	P-623(2)	713	8.0	107.24	PVC	0.16	45	45	
1558	P-305	738	6.0	104.24	PVC	0.64	44	44	
2800	P-952	348	6.0	89.68	PVC	0.23	42	42	
1465	P-255	979	8.0	-199.59	PVC	0.69	46	45	
1466	P-256	104	6.0	-199.59	PVC	0.30	46	46	
3555	P-412	33	8.0	153.83	PVC	0.01	44	44	
1256	P-198	1,394	8.0	212.27	PVC	1.11	43	43	
2329	P-731	1,300	8.0	212.27	PVC	1.03	42	43	
2333	P-734	489	8.0	212.27	PVC	0.39	42	42	
2944	P-6(2)	173	10.0	-45.72	PVC	0.00	44	44	
1998	P-561	513	6.0	-45.72	PVC	0.10	44	44	
1996	P-560	482	6.0	-45.72	PVC	0.09	44	44	
1234	P-195	1,279	6.0	101.24	PVC	1.05	41	42	
2433	P-789	289	8.0	3.20	PVC	0.00	46	46	
2477	P-812	193	8.0	-84.77	PVC	0.03	47	47	
2626	P-886	169	8.0	96.74	PVC	0.03	44	44	
1032	P-166	2,706	8.0	39.96	PVC	0.10	45	45	
2041	P-591	1,307	8.0	39.96	PVC	0.05	45	45	
2842	P-976	572	6.0	-43.25	PVC	0.10	46	45	
2461	P-803	1,355	8.0	-28.50	PVC	0.03	46	46	
2823	P-964	463	6.0	-26.24	PVC	0.03	45	45	
177	P-16	33	6.0	88.49	PVC	0.02	48	48	
3401	P-337	252	6.0	125.21	PVC	0.31	46	46	
2072	P-607	783	6.0	85.40	PVC	0.47	46	47	
1731	P-403	61	8.0	85.40	PVC	0.01	46	46	
3211	P-297(1)	220	8.0	44.41	PVC	0.01	44	44	
3217	P-295(2)(1)	318	8.0	44.41	PVC	0.01	44	44	
416	P-75	405	6.0	-16.63	PVC	0.01	44	44	

FlexTable: Pipe Table
Current Time: 19.00 hours

ID	Label	Length (Scaled) (ft)	Diameter (in)	Flow (gpm)	Material	Headloss (ft)	Pressure (Stop) (psi)	Pressure (Start) (psi)	Notes
2784	P-944	264	8.0	-34.97	PVC	0.01	46	46	
1114	P-176	1,206	8.0	164.15	PVC	0.60	42	42	
2032	P-586	195	6.0	108.88	PVC	0.18	44	44	
2079	P-613	549	8.0	69.32	PVC	0.05	47	47	
2113	P-640	273	8.0	69.32	PVC	0.03	47	47	
2140	P-653	24	8.0	69.32	PVC	0.00	47	47	
3430	P-347	326	6.0	-40.18	PVC	0.05	44	44	
2641	P-894	247	6.0	169.59	PVC	0.52	44	44	
2034	P-587	207	6.0	169.59	PVC	0.44	44	44	
1416	P-231	191	6.0	72.87	PVC	0.09	47	47	
2107	P-635	898	8.0	74.42	PVC	0.10	46	46	
3128	P-275	202	8.0	52.43	PVC	0.01	45	45	
1913	P-514	288	8.0	-87.29	PVC	0.04	46	46	
1986	P-553	137	6.0	-121.77	PVC	0.16	43	43	
3220	P-302	719	6.0	-121.77	PVC	0.83	43	43	
1726	P-401	690	8.0	67.32	PVC	0.07	46	46	
3132	P-266(1)(2)	157	8.0	-5.61	PVC	0.00	45	45	
368	P-64	327	6.0	-105.47	PVC	0.30	48	47	
2801	P-953	1,015	6.0	49.94	PVC	0.22	42	42	
3609	P-428	1,210	10.0	343.60	PVC	0.79	44	44	
955	P-156	284	8.0	46.61	PVC	0.01	46	46	
2610	P-875	294	8.0	62.30	PVC	0.02	44	44	
2109	P-636	357	6.0	62.28	PVC	0.12	46	46	
2786	P-945	615	6.0	59.24	PVC	0.19	49	49	
353	P-61	278	6.0	56.34	PVC	0.08	46	46	
1518	P-285	209	8.0	5.88	PVC	0.00	42	42	
2322	P-727	128	8.0	5.88	PVC	0.00	42	42	
2857	P-985	1,020	6.0	63.98	PVC	0.36	44	44	
2315	P-722	191	8.0	61.05	PVC	0.02	41	41	
1083	P-172	630	8.0	81.88	PVC	0.09	44	44	
2956	P-776(1)	634	10.0	-109.15	PVC	0.05	47	47	
1908	P-512	274	8.0	-74.76	PVC	0.03	46	46	
3216	P-301	1,013	8.0	25.02	PVC	0.02	44	44	
3070	P-253	245	8.0	42.83	PVC	0.01	41	41	
800	P-122	132	8.0	42.74	PVC	0.01	48	48	
2321	P-726	1,164	8.0	38.37	PVC	0.04	42	42	
1931	P-625	541	8.0	-399.16	PVC	1.38	47	47	
2390	P-762	243	8.0	-399.16	PVC	0.62	47	47	
3097	P-264	111	8.0	-58.03	PVC	0.01	45	45	
3116	P-265(1)	398	8.0	-58.03	PVC	0.03	45	45	
2228	P-703	127	8.0	139.23	PVC	0.05	41	41	
896	P-145	309	8.0	41.58	PVC	0.01	47	47	
1721	P-399	343	6.0	45.75	PVC	0.06	47	47	
2943	P-6(1)	721	10.0	-389.32	PVC	0.59	44	43	
2614	P-878	211	8.0	38.15	PVC	0.01	44	44	
3202	P-298	1,002	8.0	19.39	PVC	0.01	44	44	
3212	P-297(2)	310	8.0	19.39	PVC	0.00	44	44	
3214	P-299(1)	312	8.0	19.39	PVC	0.00	44	44	
2482	P-815	1,352	8.0	-180.86	PVC	0.80	47	47	
1046	P-167	488	8.0	-17.40	PVC	0.00	44	44	
1821	P-458	201	8.0	310.84	PVC	0.32	44	44	
3131	P-266(1)(1)	198	8.0	-25.67	PVC	0.00	45	45	
2616	P-879	175	8.0	32.39	PVC	0.00	44	44	
3133	P-277	210	8.0	20.05	PVC	0.00	45	45	
413	P-74	405	6.0	-17.15	PVC	0.01	44	44	
3117	P-265(2)	211	8.0	-35.18	PVC	0.01	45	45	
3108	P-267	228	8.0	50.38	PVC	0.01	45	45	
3110	P-268	226	8.0	50.38	PVC	0.01	45	45	
3114	P-269	490	8.0	50.38	PVC	0.03	45	45	
1960	P-538	321	8.0	-16.98	PVC	0.00	47	47	
2611	P-876	906	8.0	24.15	PVC	0.01	44	44	
2029	P-584	790	6.0	44.90	PVC	0.14	44	44	
822	P-128	110	8.0	134.83	PVC	0.04	44	44	
2653	P-899	234	6.0	-82.94	PVC	0.13	48	48	
2655	P-900	71	6.0	-82.94	PVC	0.04	48	48	
2656	P-901	185	6.0	-82.94	PVC	0.10	48	48	
3023	P-533(2)	240	8.0	-396.67	Asbestos Cement	0.69	50	50	
2613	P-877	165	8.0	20.68	PVC	0.00	44	44	
3069	P-707(2)	1,134	8.0	18.26	PVC	0.01	41	41	
224	P-26	61	8.0	17.75	PVC	0.00	41	41	
3080	P-258	1,136	8.0	17.75	PVC	0.01	41	41	
2845	P-978	142	8.0	-104.42	PVC	0.03	46	46	
3119	P-270	360	8.0	-22.85	PVC	0.00	45	45	
3121	P-271	151	8.0	-22.85	PVC	0.00	45	45	
1979	P-550	326	10.0	297.97	PVC	0.16	44	44	
2617	P-880	207	8.0	14.91	PVC	0.00	44	44	
2195	P-687	671	8.0	-32.49	PVC	0.02	42	42	
3531	P-396	473	6.0	139.73	PVC	0.70	43	43	
1800	P-442	291	8.0	37.07	PVC	0.01	43	43	
3196	P-289(1)(1)(1)	141	8.0	118.82	PVC	0.04	44	44	
476	P-82	630	6.0	-14.01	PVC	0.01	44	44	
2286	P-710	1,168	8.0	9.66	PVC	0.00	41	41	
1728	P-402	189	8.0	10.97	PVC	0.00	46	46	

FlexTable: Pipe Table
Current Time: 19.00 hours

ID	Label	Length (Scaled) (ft)	Diameter (in)	Flow (gpm)	Material	Headloss (ft)	Pressure (Stop) (psi)	Pressure (Start) (psi)	Notes
1732	P-404	375	8.0	10.97	PVC	0.00	46	46	
1601	P-330	70	6.0	13.18	PVC	0.00	44	44	
3123	P-272	193	8.0	-32.37	PVC	0.00	45	45	
2543	P-845	995	8.0	0.00	PVC	0.00	44	44	
3171	P-290	393	8.0	9.48	PVC	0.00	44	44	
3174	P-291(1)	275	8.0	9.48	PVC	0.00	44	44	
3178	P-289(2)	269	8.0	9.48	PVC	0.00	44	44	
2479	P-813	1,167	8.0	-177.01	PVC	0.66	47	47	
2481	P-814	110	8.0	-177.01	PVC	0.06	47	47	
2487	P-817	80	8.0	-177.01	PVC	0.05	47	47	
2569	P-858	323	8.0	0.00	PVC	0.00	44	44	
2571	P-859	683	8.0	0.00	PVC	0.00	44	44	
2573	P-860	267	8.0	0.00	PVC	0.00	44	44	
2575	P-861	412	8.0	0.00	PVC	0.00	44	44	
2577	P-862	196	8.0	0.00	PVC	0.00	44	44	
2580	P-864	154	8.0	0.00	PVC	0.00	44	44	
3181	P-291(2)(1)	269	8.0	16.51	PVC	0.00	44	44	
3185	P-289(1)(2)	267	8.0	16.51	PVC	0.00	44	44	
3188	P-291(2)(2)(1)	252	8.0	28.28	PVC	0.00	44	44	
3192	P-289(1)(1)(2)	252	8.0	28.28	PVC	0.00	44	44	
3189	P-291(2)(2)(2)	240	8.0	47.94	PVC	0.01	44	44	
3197	P-289(1)(1)(1)	244	8.0	47.94	PVC	0.01	44	44	
1010	P-164	710	8.0	0.00	PVC	0.00	46	46	
1875	P-493	387	8.0	0.00	PVC	0.00	46	46	
3444	P-352	256	8.0	0.00	PVC	0.00	45	45	
3446	P-353	1,097	8.0	0.00	PVC	0.00	45	45	
3449	P-351(2)	1,097	8.0	0.00	PVC	0.00	45	45	
3450	P-354	253	8.0	0.00	PVC	0.00	45	45	
2359	P-747	218	8.0	4.50	PVC	0.00	45	45	
2561	P-855	248	8.0	0.00	PVC	0.00	44	44	
2585	P-867	217	8.0	0.00	PVC	0.00	44	44	
2549	P-849	141	8.0	0.00	PVC	0.00	44	44	
2551	P-850	245	8.0	0.00	PVC	0.00	44	44	
2555	P-851	936	8.0	0.00	PVC	0.00	44	44	
1115	P-177	882	8.0	73.89	PVC	0.10	44	44	
2534	P-841	491	6.0	15.92	PVC	0.01	46	46	
1602	P-331	656	6.0	5.51	PVC	0.00	44	44	
2547	P-848	293	8.0	0.00	PVC	0.00	44	44	
2541	P-844	293	8.0	0.00	PVC	0.00	44	44	
2546	P-847	998	8.0	0.00	PVC	0.00	44	44	
2563	P-856	177	8.0	0.00	PVC	0.00	44	44	
2565	P-857	1,248	8.0	0.00	PVC	0.00	44	44	
2579	P-863	295	8.0	0.00	PVC	0.00	44	44	
2586	P-868	156	8.0	0.00	PVC	0.00	44	44	
2581	P-865	1,098	8.0	0.00	PVC	0.00	44	44	
1592	P-325	376	6.0	2.70	PVC	0.00	44	44	
2007	P-569	845	6.0	0.00	PVC	0.00	41	41	
3179	P-292	401	6.0	-7.03	PVC	0.00	44	44	
3186	P-293	401	6.0	-11.77	PVC	0.01	44	44	
2584	P-866	117	8.0	0.00	PVC	0.00	44	44	
1418	P-232	792	6.0	-60.71	PVC	0.25	44	44	
3193	P-294	399	6.0	-19.66	PVC	0.02	44	44	
3234	P-234(2)	46	12.0	0.00	PVC	0.00	48	48	
1426	P-235	31	12.0	0.00	PVC	0.00	48	48	
2001	P-564	332	6.0	0.00	PVC	0.00	44	44	
1861	P-481	67	6.0	0.00	PVC	0.00	48	48	
2344	P-741	1,200	8.0	0.00	PVC	0.00	47	47	
2003	P-566	327	6.0	0.00	PVC	0.00	44	44	
3534	P-399	70	8.0	0.00	PVC	0.00	43	43	
777	P-117	68	8.0	0.00	PVC	0.00	53	53	
2448	P-796	72	8.0	0.00	PVC	0.00	46	46	
2512	P-830	53	8.0	0.00	PVC	0.00	46	46	
39	P-1	71	8.0	0.00	PVC	0.00	46	46	
3448	P-351(1)	123	8.0	0.00	PVC	0.00	45	45	
310	P-51	337	8.0	0.00	PVC	0.00	46	46	
2372	P-755	280	6.0	0.00	PVC	0.00	45	45	
2070	P-606	595	6.0	0.00	PVC	0.00	46	46	
407	P-72	396	6.0	0.00	PVC	0.00	49	49	
344	P-59	263	6.0	0.00	PVC	0.00	46	46	
503	P-88	657	6.0	0.00	PVC	0.00	44	44	
675	P-102	2,030	6.0	0.00	PVC	0.00	47	47	
2002	P-565	367	6.0	0.00	PVC	0.00	44	44	
547	P-95	1,022	6.0	0.00	PVC	0.00	46	46	
1590	P-324	307	6.0	0.00	PVC	0.00	44	44	
395	P-70	495	6.0	0.00	PVC	0.00	50	50	
238	P-29	391	6.0	0.00	PVC	0.00	47	47	
910	P-148	188	8.0	0.00	PVC	0.00	47	47	
216	P-24	133	6.0	0.00	PVC	0.00	46	46	
1406	P-224	660	10.0	0.00	PVC	0.00	46	46	
1588	P-323	34	6.0	0.00	PVC	0.00	44	44	

FlexTable: Pipe Table
Current Time: 19.00 hours

ID	Label	Length (Scaled) (ft)	Diameter (in)	Flow (gpm)	Material	Headloss (ft)	Pressure (Stop) (psi)	Pressure (Start) (psi)	Notes
195	P-21	56	8.0	0.00	PVC	0.00	47	47	
706	P-103	31	8.0	0.00	PVC	0.00	46	46	
1868	P-488	56	8.0	0.00	PVC	0.00	46	46	
2290	P-713	149	10.0	0.00	PVC	0.00	41	41	
1172	P-188	1,074	6.0	0.00	PVC	0.00	53	53	
2446	P-795	449	8.0	0.00	PVC	0.00	46	46	
2444	P-794	181	8.0	0.00	PVC	0.00	46	46	
2510	P-829	193	8.0	0.00	PVC	0.00	46	46	
2508	P-828	509	8.0	0.00	PVC	0.00	46	46	
2506	P-827	477	8.0	0.00	PVC	0.00	46	46	
2522	P-834	118	8.0	0.00	PVC	0.00	46	46	
872	P-135	128	8.0	0.00	PVC	0.00	45	45	
840	P-129	122	8.0	0.00	PVC	0.00	45	45	
2308	P-719	146	8.0	0.00	PVC	0.00	41	41	
2303	P-717	172	8.0	0.00	PVC	0.00	41	41	
803	P-123	69	6.0	0.00	PVC	0.00	48	48	
2517	P-832	116	8.0	0.00	PVC	0.00	46	46	
2348	P-743	145	8.0	0.00	PVC	0.00	47	47	
709	P-104	140	8.0	0.00	PVC	0.00	44	44	
1652	P-365	132	6.0	0.00	PVC	0.00	46	46	
2211	P-695	205	6.0	0.00	PVC	0.00	48	48	
213	P-23	95	6.0	0.00	PVC	0.00	46	46	
296	P-47	159	6.0	0.00	PVC	0.00	44	44	
1796	P-440	1,567	8.0	0.00	PVC	0.00	43	43	
1668	P-369	321	6.0	0.00	PVC	0.00	46	46	
3468	P-906(2)	620	6.0	0.00	PVC	0.00	46	46	
2339	P-738	534	6.0	0.00	PVC	0.00	44	44	
431	P-78	420	6.0	0.00	PVC	0.00	48	48	
2110	P-637	449	6.0	0.00	PVC	0.00	46	46	
3501	P-376	598	8.0	0.00	PVC	0.00	46	46	
3436	P-350	1,304	8.0	0.00	PVC	0.00	42	42	
1185	P-190	1,097	8.0	0.00	PVC	0.00	44	44	
288	P-44	171	6.0	0.00	PVC	0.00	44	44	
410	P-73	400	6.0	0.00	PVC	0.00	48	48	
500	P-87	691	6.0	0.00	PVC	0.00	47	47	
2702	P-919	109	6.0	0.00	PVC	0.00	47	47	
2004	P-567	165	6.0	0.00	PVC	0.00	44	44	
2217	P-699	141	6.0	0.00	PVC	0.00	44	44	
1992	P-557	243	6.0	0.00	PVC	0.00	43	43	
1436	P-240	354	6.0	0.00	PVC	0.00	48	48	
3508	P-382	704	8.0	0.00	PVC	0.00	47	47	
1482	P-267	111	6.0	0.00	PVC	0.00	46	46	
180	P-17	33	6.0	0.00	PVC	0.00	48	48	
1720	P-398	120	6.0	0.00	PVC	0.00	47	47	
481	P-83	648	6.0	0.00	PVC	0.00	44	44	
3602	P-348(2)(2)	260	6.0	0.00	PVC	0.00	43	43	
487	P-85	754	6.0	0.00	PVC	0.00	47	47	
244	P-30	121	6.0	0.00	PVC	0.00	46	46	
1394	P-219	464	6.0	0.00	PVC	0.00	51	51	
280	P-41	111	6.0	0.00	PVC	0.00	44	44	
2106	P-634	329	6.0	0.00	PVC	0.00	45	45	
1434	P-239	206	6.0	0.00	PVC	0.00	48	48	
2450	P-797	158	8.0	0.00	PVC	0.00	46	46	
1852	P-482	538	6.0	0.00	PVC	0.00	48	48	
2830	P-968	597	8.0	0.00	PVC	0.00	46	46	
2370	P-754	284	6.0	0.00	PVC	0.00	45	45	
259	P-34	182	6.0	0.00	PVC	0.00	46	46	
282	P-42	90	6.0	0.00	PVC	0.00	46	46	
341	P-58	266	6.0	0.00	PVC	0.00	48	48	
758	P-113	171	8.0	0.00	PVC	0.00	44	44	
321	P-55	223	6.0	0.00	PVC	0.00	48	48	
2430	P-787	116	8.0	0.00	PVC	0.00	46	46	
318	P-54	216	6.0	0.00	PVC	0.00	44	44	
304	P-50	195	6.0	0.00	PVC	0.00	48	48	
235	P-28	111	6.0	0.00	PVC	0.00	44	44	
262	P-35	135	6.0	0.00	PVC	0.00	43	43	
2346	P-742	145	8.0	0.00	PVC	0.00	47	47	
253	P-32	131	6.0	0.00	PVC	0.00	43	43	
2307	P-718	154	8.0	0.00	PVC	0.00	41	41	
2527	P-837	146	8.0	0.00	PVC	0.00	46	46	
183	P-18	36	6.0	0.00	PVC	0.00	47	47	
1432	P-237	82	10.0	0.00	PVC	0.00	46	46	
722	P-107	36	8.0	0.00	PVC	0.00	49	49	
1755	P-419	394	8.0	0.00	PVC	0.00	45	45	
57	P-3	102	8.0	0.00	PVC	0.00	46	46	
2624	P-885	167	8.0	0.00	PVC	0.00	44	44	
2091	P-622	92	8.0	0.00	PVC	0.00	46	46	
271	P-38	136	6.0	0.00	PVC	0.00	43	43	
291	P-45	169	6.0	0.00	PVC	0.00	44	44	
1221	P-193	1,271	8.0	0.00	PVC	0.00	45	45	
854	P-131	107	8.0	0.00	PVC	0.00	45	45	
222	P-25	97	6.0	0.00	PVC	0.00	48	48	
1438	P-241	97	6.0	0.00	PVC	0.00	48	48	
2202	P-691	156	6.0	0.00	PVC	0.00	43	43	

FlexTable: Pipe Table
Current Time: 19.00 hours

ID	Label	Length (Scaled) (ft)	Diameter (In)	Flow (gpm)	Material	Headloss (ft)	Pressure (psi)	Pressure (Start) (psi)	Notes
3565	P-307(2)(2)	92	8.0	0.00	PVC	0.00	47	47	
1571	P-312	28	6.0	0.00	PVC	0.00	47	47	
232	P-27	111	6.0	0.00	PVC	0.00	46	46	
3140	P-279	254	8.0	0.00	PVC	0.00	45	45	
3142	P-280	287	8.0	0.00	PVC	0.00	45	45	
869	P-134	128	8.0	0.00	PVC	0.00	45	45	
1441	P-242	56	6.0	0.00	PVC	0.00	48	48	
277	P-40	120	6.0	0.00	PVC	0.00	44	44	
2059	P-602	77	6.0	0.00	PVC	0.00	50	50	
163	P-15	49	6.0	0.00	PVC	0.00	47	47	
860	P-132	123	6.0	0.00	PVC	0.00	44	44	
2501	P-825	474	8.0	0.00	PVC	0.00	46	46	
1673	P-373	224	8.0	0.00	PVC	0.00	46	46	
1993	P-558	412	6.0	0.00	PVC	0.00	44	44	
160	P-14	51	6.0	0.00	PVC	0.00	46	46	
463	P-81	599	6.0	0.00	PVC	0.00	46	46	
189	P-20	51	6.0	0.00	PVC	0.00	47	47	
2703	P-920	501	6.0	0.00	PVC	0.00	47	47	
299	P-48	156	6.0	0.00	PVC	0.00	48	48	
2301	P-716	497	8.0	0.00	PVC	0.00	41	41	
2216	P-698	139	6.0	0.00	PVC	0.00	44	44	
2009	P-570	542	6.0	0.00	PVC	0.00	41	41	
1583	P-320	66	6.0	0.00	PVC	0.00	48	48	
863	P-133	123	6.0	0.00	PVC	0.00	45	45	
294	P-46	144	6.0	0.00	PVC	0.00	47	47	
1841	P-468	480	8.0	0.00	PVC	0.00	44	44	
268	P-37	117	6.0	0.00	PVC	0.00	44	44	
2497	P-823	182	8.0	0.00	PVC	0.00	46	46	
2559	P-854	632	8.0	0.00	PVC	0.00	44	44	
3146	P-282	401	8.0	0.00	PVC	0.00	45	45	
3150	P-283	747	8.0	0.00	PVC	0.00	45	45	
2545	P-846	186	8.0	0.00	PVC	0.00	44	44	
1407	P-225	48	6.0	0.00	PVC	0.00	46	46	
1967	P-542	151	8.0	0.00	PVC	0.00	47	47	
3144	P-281	258	8.0	0.00	PVC	0.00	45	45	
819	P-127	79	8.0	0.00	PVC	0.00	45	45	
1760	P-421	291	8.0	0.00	PVC	0.00	45	45	
1757	P-420	300	8.0	0.00	PVC	0.00	45	45	
1867	P-487	41	8.0	0.00	PVC	0.00	46	46	
917	P-149	201	8.0	0.00	PVC	0.00	46	46	
2432	P-788	537	8.0	0.00	PVC	0.00	46	46	
274	P-39	120	6.0	0.00	PVC	0.00	44	44	
1447	P-245	1,579	6.0	0.00	PVC	0.00	43	43	
1949	P-534	701	6.0	0.00	PVC	0.00	48	48	
2005	P-568	227	6.0	0.00	PVC	0.00	41	41	
1411	P-227	362	6.0	0.00	PVC	0.00	50	50	
1817	P-455	312	8.0	0.00	PVC	0.00	44	44	
943	P-154	251	8.0	0.00	PVC	0.00	46	46	
1876	P-494	128	8.0	0.00	PVC	0.00	46	46	
808	P-125	74	8.0	0.00	PVC	0.00	46	46	
1874	P-492	234	8.0	0.00	PVC	0.00	46	46	
1994	P-559	388	6.0	0.00	PVC	0.00	44	44	
1412	P-228	255	6.0	0.00	PVC	0.00	50	50	
3417	P-11(1)	89	12.0	0.00	PVC	0.00	46	46	
1872	P-491	328	8.0	0.00	PVC	0.00	46	46	
2000	P-563	125	6.0	0.00	PVC	0.00	44	44	
326	P-56	245	6.0	0.00	PVC	0.00	41	41	
1587	P-322	943	6.0	-2.70	PVC	0.00	44	44	
285	P-43	141	6.0	-2.70	PVC	0.00	44	44	
564	P-97	1,354	6.0	-2.81	PVC	0.00	44	44	
2588	P-869	265	6.0	-5.51	PVC	0.00	44	44	
2589	P-870	902	6.0	-5.51	PVC	0.00	44	44	
2218	P-700	647	6.0	-7.67	PVC	0.00	44	44	
2219	P-701	553	6.0	-7.67	PVC	0.00	44	44	
3129	P-276	212	8.0	-9.51	PVC	0.00	45	45	
3198	P-296	385	8.0	-70.88	PVC	0.04	44	44	
3554	P-411	2,265	8.0	81.66	PVC	0.31	46	46	
763	P-115	311	8.0	4.60	PVC	0.00	47	47	
2709	P-925	369	6.0	55.24	PVC	0.10	46	46	
2402	P-770	532	6.0	16.40	PVC	0.01	47	47	
2622	P-884	177	8.0	-9.24	PVC	0.00	44	44	
1596	P-326	202	6.0	-13.17	PVC	0.00	44	44	
2282	P-708	1,160	8.0	-10.00	PVC	0.00	41	41	
2287	P-711	35	8.0	-9.71	PVC	0.00	41	41	
2838	P-973	613	6.0	43.14	PVC	0.10	46	46	
2797	P-950	185	6.0	-12.13	PVC	0.00	42	42	
2087	P-618	143	6.0	96.15	PVC	0.11	47	47	
2088	P-619	557	6.0	96.15	PVC	0.41	47	47	
2368	P-753	222	8.0	-14.78	PVC	0.00	45	45	
2618	P-881	910	8.0	-17.47	PVC	0.01	44	44	
2188	P-694	308	8.0	56.33	PVC	0.02	43	43	
1508	P-281	817	8.0	29.63	PVC	0.02	41	41	
2985	P-100(1)	123	6.0	29.63	PVC	0.01	41	41	
2604	P-873	902	8.0	-20.68	PVC	0.01	44	44	

FlexTable: Pipe Table
Current Time: 19.00 hours

ID	Label	Length (Scaled) (ft)	Diameter (In)	Flow (gpm)	Material	Headloss (ft)	Pressure (Stop) (psi)	Pressure (Start) (psi)	Notes
3076	P-257	1,161	8.0	-19.50	PVC	0.01	41	41	
3079	P-256(2)	43	8.0	-19.50	PVC	0.00	41	41	
2020	P-577	172	8.0	-134.83	PVC	0.06	44	44	
3125	P-273	169	8.0	-52.42	PVC	0.01	45	45	
3068	P-707(1)	46	8.0	-24.57	PVC	0.00	41	41	
1496	P-275	524	8.0	39.07	PVC	0.02	46	46	
2781	P-942	382	6.0	-46.80	PVC	0.07	42	42	
1962	P-539	308	8.0	-46.17	PVC	0.01	47	47	
2620	P-882	301	8.0	-34.44	PVC	0.01	44	44	
2595	P-871	1,064	8.0	-34.44	PVC	0.03	44	44	
3084	P-941(1)	331	8.0	-43.99	PVC	0.01	41	41	
2136	P-651	332	8.0	17.40	PVC	0.00	44	44	
1366	P-204	761	8.0	-20.33	PVC	0.01	44	44	
1563	P-307	516	8.0	-37.13	PVC	0.02	45	45	
1565	P-308	319	8.0	-37.13	PVC	0.01	45	45	
1566	P-309	285	8.0	-37.13	PVC	0.01	45	45	
3078	P-256(1)	188	8.0	-37.25	PVC	0.01	41	41	
1968	P-543	325	8.0	-41.58	PVC	0.01	47	47	
2621	P-883	378	8.0	-43.67	PVC	0.02	44	44	
3237	P-191(1)	99	8.0	106.81	PVC	0.02	47	47	
1852	P-475	168	6.0	-195.30	PVC	0.46	47	47	
2246	P-704	256	8.0	-45.17	PVC	0.01	41	41	
2251	P-705	47	8.0	-45.17	PVC	0.00	41	41	
2832	P-969	802	6.0	32.84	PVC	0.08	46	46	
3072	P-255	64	8.0	-46.91	PVC	0.00	41	41	
2331	P-732	660	8.0	-160.53	PVC	0.31	42	42	
2605	P-874	181	8.0	-53.07	PVC	0.01	44	44	
2284	P-709	49	8.0	-52.83	PVC	0.00	41	41	
3081	P-259	239	8.0	-52.77	PVC	0.01	41	41	
1544	P-297	438	6.0	-20.88	PVC	0.02	42	42	
2252	P-706	191	8.0	-54.88	PVC	0.01	41	41	
766	P-116	308	8.0	-29.19	PVC	0.01	47	47	
1966	P-541	322	8.0	-59.66	PVC	0.02	47	47	
3071	P-254	236	8.0	-56.90	PVC	0.02	41	41	
2932	P-892(1)	325	6.0	-79.26	PVC	0.17	44	44	
434	P-79	392	6.0	-62.28	PVC	0.13	46	46	
1973	P-546	320	8.0	-55.07	PVC	0.02	47	47	
993	P-162	360	8.0	-67.32	PVC	0.03	46	46	
1543	P-296	1,015	6.0	-33.01	PVC	0.10	42	42	
2798	P-951	1,015	6.0	-68.37	PVC	0.40	42	42	
3082	P-260	298	8.0	-72.27	PVC	0.03	41	41	
2320	P-725	25	8.0	-72.27	PVC	0.00	41	41	
1506	P-280	260	8.0	-72.63	PVC	0.03	41	41	
2318	P-724	77	8.0	-72.63	PVC	0.01	41	41	
2947	P-956(1)	314	6.0	212.27	PVC	1.01	43	43	
2078	P-612	31	8.0	-69.32	PVC	0.00	47	47	
2116	P-641	493	8.0	-69.32	PVC	0.05	47	47	
1863	P-483	814	6.0	-39.53	PVC	0.12	49	49	
1367	P-205	118	8.0	-44.41	PVC	0.01	44	44	
970	P-158	252	8.0	-85.40	PVC	0.04	46	46	
3194	P-295	178	8.0	19.08	PVC	0.00	44	44	
1214	P-192	1,210	8.0	281.78	PVC	1.62	44	44	
1546	P-298	971	6.0	-67.69	PVC	0.38	42	42	
2210	P-694	231	6.0	-88.49	PVC	0.15	48	48	
1480	P-265	575	6.0	65.54	PVC	0.21	46	46	
2948	P-956(2)	2,172	6.0	72.54	PVC	0.96	42	43	
2030	P-585	202	6.0	-65.86	PVC	0.07	44	44	
3127	P-274	646	8.0	-104.84	PVC	0.14	45	45	
3137	P-278	330	8.0	-104.84	PVC	0.07	45	45	
247	P-31	162	6.0	-5.15	PVC	0.00	44	44	
881	P-139	158	6.0	-5.15	PVC	0.00	44	44	
2028	P-583	212	6.0	-5.15	PVC	0.00	44	44	
2600	P-872	1,530	8.0	-96.74	PVC	0.28	44	44	
2627	P-887	334	8.0	-96.74	PVC	0.06	44	44	
2187	P-683	330	8.0	268.60	PVC	0.40	43	44	
1457	P-251	80	8.0	16.21	PVC	0.00	46	46	
1458	P-252	1,266	8.0	16.21	PVC	0.01	46	46	
2424	P-783	522	8.0	-3.20	PVC	0.00	46	46	
2428	P-786	298	8.0	-3.20	PVC	0.00	46	46	
1567	P-310	161	8.0	-101.24	PVC	0.03	45	45	
1965	P-540	124	8.0	-101.24	PVC	0.03	47	47	
2327	P-730	131	8.0	-212.27	PVC	0.10	43	43	
3532	P-397	620	8.0	-212.27	PVC	0.49	43	43	
3452	P-355	207	8.0	43.78	PVC	0.01	46	46	
3454	P-356	1,892	8.0	43.78	PVC	0.08	46	46	
3455	P-357	102	8.0	43.78	PVC	0.00	46	46	
1607	P-333	498	6.0	-58.91	PVC	0.15	44	43	
3587	P-957(2)	568	6.0	-58.91	PVC	0.17	43	43	
2019	P-576	316	8.0	-118.19	PVC	0.08	44	44	
1491	P-272	535	10.0	-107.24	PVC	0.04	46	46	
1105	P-175	1,062	8.0	-17.70	PVC	0.01	43	43	
1733	P-405	250	6.0	-7.66	PVC	0.00	46	46	
1736	P-408	173	8.0	-7.66	PVC	0.00	46	46	
544	P-94	943	6.0	-78.82	PVC	0.49	44	44	

FlexTable: Pipe Table
Current Time: 19.00 hours

ID	Label	Length (Scaled) (ft)	Diameter (In)	Flow (gpm)	Material	Headloss (ft)	Pressure (psi)	Pressure (Stop) (psi)	Pressure (Start) (psi)	Notes
2858	P-986	221	6.0	-110.76	PVC	0.21	44	44		
2128	P-645	179	6.0	65.68	PVC	0.07	47	47		
1530	P-288	312	8.0	-47.16	PVC	0.02	42	42		
2839	P-974	642	6.0	-67.10	PVC	0.25	46	46		
1923	P-520	231	8.0	-122.24	PVC	0.07	46	46		
1665	P-368	320	8.0	-60.25	PVC	0.02	46	46		
1373	P-206	658	8.0	-64.74	PVC	0.06	44	44		
2162	P-668	492	6.0	171.50	PVC	1.07	44	45		
2452	P-798	253	8.0	-130.53	PVC	0.08	46	46		
2833	P-970	487	6.0	-42.90	PVC	0.08	46	46		
1974	P-547	317	8.0	-84.26	PVC	0.05	47	47		
2289	P-712	336	10.0	-138.58	PVC	0.04	41	41		
2295	P-714	1,313	8.0	-138.58	PVC	0.47	41	41		
3022	P-533(1)	184	8.0	-523.60	Asbestos Cement	0.88	50	49		
1143	P-181	949	8.0	126.41	PVC	0.29	44	44		
2366	P-751	384	8.0	-133.87	PVC	0.13	45	45		
2026	P-582	314	8.0	-101.05	PVC	0.06	44	44		
2038	P-589	74	8.0	-389.10	PVC	0.18	45	45		
2039	P-590	75	8.0	-389.10	PVC	0.18	45	45		
3166	P-338(1)	826	6.0	101.54	PVC	0.68	44	45		
1568	P-311	527	8.0	-138.37	PVC	0.19	45	45		
2112	P-639	478	6.0	-139.46	PVC	0.71	47	46		
1151	P-184	1,009	8.0	-14.78	PVC	0.01	43	43		
374	P-66	328	6.0	392.52	PVC	3.30	48	50		
1969	P-544	309	6.0	-84.62	PVC	0.18	47	47		
2401	P-769	393	6.0	0.66	PVC	0.00	47	47		
893	P-144	308	8.0	-89.50	PVC	0.05	47	47		
2018	P-575	405	6.0	36.68	PVC	0.05	44	44		
2025	P-581	274	8.0	-87.03	PVC	0.04	44	44		
2367	P-752	438	8.0	-148.65	PVC	0.18	46	45		
2640	P-893	38	6.0	265.80	PVC	0.18	44	45		
3008	P-954(1)	505	8.0	-144.90	PVC	0.20	41	41		
3009	P-954(2)	571	8.0	-144.90	PVC	0.22	41	41		
530	P-91	1,149	6.0	65.40	PVC	0.42	45	45		
3167	P-338(2)	1,171	6.0	-17.28	PVC	0.04	44	44		
1616	P-339	428	6.0	-17.28	PVC	0.01	44	44		
1807	P-447	766	8.0	-24.30	PVC	0.01	43	43		
3154	P-285	608	6.0	66.43	PVC	0.23	47	47		
3156	P-286	253	6.0	66.43	PVC	0.09	47	47		
3162	P-287(1)	608	6.0	66.43	PVC	0.23	47	47		
1528	P-287	371	8.0	0.75	PVC	0.00	42	42		
2334	P-735	63	8.0	0.75	PVC	0.00	42	42		
3085	P-941(2)	1,229	8.0	-157.68	PVC	0.56	41	41		
2381	P-760	525	6.0	-89.43	PVC	0.34	47	46		
2393	P-764	263	6.0	-89.43	PVC	0.17	47	47		
1365	P-203	249	8.0	-84.88	PVC	0.04	44	44		
1915	P-515	273	8.0	-41.69	PVC	0.01	46	46		
3159	P-961(2)	1,395	6.0	146.98	Asbestos Cement	2.57	45	46		
2467	P-806	1,352	8.0	-81.69	PVC	0.18	46	46		
2394	P-765	111	6.0	-73.03	PVC	0.05	47	47		
2405	P-772	532	6.0	-73.03	PVC	0.24	47	47		
1745	P-413	1,760	8.0	-123.95	PVC	0.52	45	45		
1073	P-170	610	8.0	83.69	PVC	0.09	44	44		
1883	P-497	437	6.0	-174.74	PVC	0.98	46	46		
2312	P-721	331	6.0	-174.74	PVC	0.74	41	41		
1884	P-498	416	6.0	-174.74	PVC	0.94	46	46		
2023	P-579	274	8.0	-149.86	PVC	0.11	44	44		
3226	P-304	346	6.0	59.70	PVC	0.11	44	44		
1910	P-513	852	8.0	-29.16	PVC	0.02	46	46		
2825	P-965	691	8.0	96.50	PVC	0.13	46	46		
1577	P-316	474	8.0	-124.73	PVC	0.14	47	47		
1580	P-317	889	8.0	-124.73	PVC	0.26	47	47		
2200	P-689	513	8.0	-32.89	PVC	0.01	46	46		
2201	P-690	762	8.0	-32.89	PVC	0.02	46	46		
2296	P-715	1,339	8.0	-199.63	PVC	0.95	41	41		
2163	P-669	313	8.0	92.52	PVC	0.05	44	44		
2164	P-670	177	8.0	92.52	PVC	0.03	44	44		
1838	P-467	985	8.0	92.52	PVC	0.17	44	44		
2024	P-580	314	8.0	-135.85	PVC	0.11	44	44		
2987	P-955(1)	691	8.0	-186.14	PVC	0.43	41	41		
3088	P-86(2)	88	6.0	-109.01	PVC	0.08	45	45		
1845	P-471	326	6.0	37.09	PVC	0.04	45	45		
1823	P-460	188	8.0	311.85	PVC	0.30	44	44		
2111	P-638	386	6.0	-201.74	PVC	1.13	46	46		
1718	P-397	900	8.0	-60.41	PVC	0.07	46	46		
635	P-101	1,649	6.0	-122.01	PVC	1.91	47	46		
2135	P-650	561	8.0	101.10	PVC	0.11	44	44		
1990	P-555	160	6.0	-169.19	PVC	0.34	44	44		
1988	P-554	124	6.0	-169.19	PVC	0.26	44	44		
1166	P-187	1,025	8.0	-15.68	PVC	0.01	43	43		
1744	P-412	813	6.0	-90.05	PVC	0.54	46	45		
2161	P-667	368	6.0	499.54	PVC	5.80	45	47		
1137	P-180	919	8.0	-127.45	PVC	0.28	46	46		
2377	P-758	688	6.0	-151.22	PVC	1.18	46	46		

FlexTable: Pipe Table
Current Time: 19.00 hours

ID	Label	Length (Scaled) (ft)	Diameter (in)	Flow (gpm)	Material	Headloss (ft)	Pressure (Stop) (psi)	Pressure (Start) (psi)	Notes
2379	P-759	464	6.0	-151.22	PVC	0.80	46	46	
1065	P-169	771	8.0	-63.45	PVC	0.07	46	46	
2022	P-578	316	8.0	-118.70	PVC	0.09	44	44	
3603	P-425	67	6.0	-104.04	PVC	0.06	43	43	
2095	P-626	910	6.0	-9.46	PVC	0.01	46	46	
1834	P-466	341	8.0	109.93	PVC	0.08	44	44	
1535	P-293	1,360	8.0	-70.49	PVC	0.14	42	42	
1536	P-294	75	8.0	-70.49	PVC	0.01	42	42	
1013	P-165	419	8.0	45.60	PVC	0.02	46	46	
2037	P-588	183	8.0	-429.06	PVC	0.54	45	45	
1715	P-394	597	8.0	-43.74	PVC	0.03	46	46	
121	P-12	1,396	12.0	-183.32	PVC	0.12	41	41	
3616	P-432	300	8.0	-183.32	PVC	0.18	85	41	
3618	P-433	483	8.0	-183.32	PVC	0.29	85	85	
3622	P-434	267	8.0	-183.32	PVC	0.17	42	85	
1619	P-341	179	8.0	-235.81	PVC	0.17	44	44	
1604	P-332	709	6.0	-166.41	PVC	1.46	44	43	
1524	P-286	520	8.0	-245.07	PVC	0.54	42	42	
1983	P-551	170	6.0	-245.24	PVC	0.72	43	42	
1964	P-552	95	6.0	-245.24	PVC	0.40	43	43	
2010	P-571	896	6.0	-245.24	PVC	3.78	43	41	
3224	P-890(1)	466	6.0	-245.24	PVC	1.96	44	43	
878	P-138	150	8.0	-8.03	PVC	0.00	46	46	
3506	P-381	591	8.0	-218.18	PVC	0.49	47	47	
2813	P-958	808	6.0	-139.06	PVC	1.19	45	44	
1753	P-418	287	8.0	32.85	PVC	0.01	45	45	
1648	P-358	52	6.0	21.14	PVC	0.00	46	46	
1646	P-356	1,849	6.0	21.14	PVC	0.08	46	46	
1808	P-448	245	8.0	-41.99	PVC	0.01	43	43	
2125	P-643	589	6.0	-104.29	PVC	0.51	47	47	
1717	P-396	53	8.0	-107.02	PVC	0.01	46	46	
1574	P-314	1,020	6.0	101.57	PVC	0.84	46	47	
1922	P-545	204	8.0	-173.76	PVC	0.11	47	47	
2403	P-771	273	6.0	-161.10	PVC	0.53	47	46	
919	P-150	165	8.0	-18.97	PVC	0.00	46	46	
1063	P-168	615	6.0	-18.97	PVC	0.02	46	46	
1734	P-406	113	6.0	-18.97	PVC	0.00	46	46	
3222	P-303	904	6.0	-94.13	PVC	0.65	44	43	
1499	P-277	358	8.0	-2.61	PVC	0.00	46	46	
1669	P-370	653	8.0	-60.51	PVC	0.05	46	46	
2350	P-744	208	8.0	-310.53	PVC	0.33	46	46	
2375	P-757	86	8.0	-310.53	PVC	0.14	46	46	
1816	P-454	315	8.0	234.54	PVC	0.30	44	44	
2535	P-842	434	6.0	26.35	PVC	0.03	46	46	
371	P-65	336	6.0	44.11	PVC	0.06	46	46	
1824	P-461	308	8.0	160.65	PVC	0.15	44	44	
2532	P-840	487	6.0	10.43	PVC	0.01	46	46	
2536	P-843	156	6.0	10.43	PVC	0.00	46	46	
946	P-155	320	8.0	40.81	PVC	0.01	46	46	
1865	P-485	111	8.0	40.81	PVC	0.00	46	46	
1716	P-395	923	8.0	-90.35	PVC	0.15	46	46	
2455	P-800	434	8.0	-81.95	PVC	0.06	46	46	
2457	P-801	173	8.0	-81.95	PVC	0.02	46	46	
761	P-114	50	8.0	-102.07	PVC	0.01	44	44	
2016	P-574	86	8.0	-102.07	PVC	0.02	44	44	
3553	P-410	149	8.0	-8.97	PVC	0.00	46	46	
2847	P-979	618	6.0	-86.55	PVC	0.38	47	47	
876	P-137	155	6.0	-39.48	PVC	0.02	46	46	
1991	P-556	867	6.0	-123.47	PVC	1.03	43	43	
1955	P-536	321	6.0	-157.14	PVC	0.59	47	46	
562	P-96	1,086	8.0	6.06	PVC	0.00	46	46	
2820	P-962	4,584	6.0	-5.26	Asbestos Cement	0.02	45	45	
1555	P-303	895	8.0	-315.83	PVC	1.48	44	44	
3525	P-365(2)(2)	732	6.0	-87.56	PVC	0.46	46	46	
3503	P-378	577	8.0	65.22	PVC	0.05	46	46	
3338	P-363(2)	415	6.0	-36.16	PVC	0.05	46	46	
1654	P-360	44	6.0	-36.16	PVC	0.01	46	46	
3113	P-263(1)(2)	177	12.0	-100.45	Ductile Iron	0.01	45	45	
1609	P-334	653	6.0	-154.66	PVC	1.17	44	44	
3586	P-957(1)	1,022	6.0	-162.95	PVC	2.02	43	42	
1180	P-189	1,096	8.0	263.36	PVC	1.30	45	45	
1844	P-470	1,391	8.0	263.36	PVC	1.65	44	45	
1812	P-452	149	8.0	-65.78	PVC	0.01	43	43	
2398	P-767	259	8.0	-477.84	PVC	0.93	47	46	
1797	P-441	1,010	8.0	-102.85	PVC	0.21	43	43	
1811	P-451	33	8.0	-102.85	PVC	0.01	43	43	
1846	P-472	825	6.0	102.49	PVC	0.69	45	45	
2632	P-888	186	10.0	191.69	PVC	0.04	44	44	
2121	P-642	914	8.0	-216.50	PVC	0.75	47	46	
3556	P-413	35	8.0	27.64	PVC	0.00	43	43	
3112	P-263(1)(1)	886	12.0	-150.83	Ductile Iron	0.07	45	45	
2469	P-807	332	8.0	-103.00	PVC	0.07	46	46	
3482	P-370	740	8.0	-99.50	PVC	0.14	46	46	
1476	P-262	172	6.0	79.18	PVC	0.09	46	46	

FlexTable: Pipe Table
Current Time: 19.00 hours

ID	Label	Length (Scaled) (ft)	Diameter (in)	Flow (gpm)	Material	Headloss (ft)	Pressure (Stop) (psi)	Pressure (Start) (psi)	Notes
1746	P-414	879	8.0	-232.96	PVC	0.83	46	45	
2636	P-891	29	6.0	-106.28	PVC	0.03	44	44	
3573	P-984(2)	54	8.0	-231.95	PVC	0.05	47	47	
2175	P-678	1,845	8.0	-74.39	PVC	0.21	45	45	
3095	P-263(2)	122	12.0	-42.42	Ductile Iron	0.00	45	45	
3517	P-389	58	12.0	-42.42	Ductile Iron	0.00	45	45	
3547	P-404	2,675	12.0	-42.42	Ductile Iron	0.02	45	45	
3548	P-405	2,571	12.0	-42.42	Ductile Iron	0.02	45	45	
2848	P-980	637	6.0	-148.79	PVC	1.06	47	47	
1363	P-202	933	6.0	-144.41	PVC	1.47	48	47	
2143	P-654	471	6.0	-144.41	PVC	0.74	48	48	
2145	P-655	432	6.0	-144.41	PVC	0.68	49	48	
2146	P-655	161	6.0	-144.41	PVC	0.26	49	49	
2864	P-990	179	8.0	180.29	PVC	0.10	50	50	
2826	P-965	646	8.0	-97.74	PVC	0.12	46	46	
3391	P-599(2)	253	6.0	86.17	PVC	0.15	47	47	
3421	P-11(2)(1)	262	12.0	2.14	PVC	0.00	46	46	
2180	P-682	448	8.0	-125.20	PVC	0.13	48	48	
2207	P-692	407	8.0	-125.20	PVC	0.12	48	48	
2208	P-693	233	8.0	-125.20	PVC	0.07	48	48	
2213	P-696	482	6.0	-125.20	PVC	0.59	48	48	
1830	P-464	73	8.0	193.62	PVC	0.05	44	44	
3164	P-288	254	6.0	171.45	PVC	0.55	47	47	
3422	P-11(2)(2)	49	12.0	83.79	PVC	0.00	46	46	
3233	P-234(1)	65	12.0	346.24	PVC	0.02	48	48	
1582	P-319	91	12.0	385.62	PVC	0.03	48	48	
2407	P-774	119	6.0	-176.84	PVC	0.27	47	47	
1917	P-516	197	8.0	-49.72	PVC	0.01	46	46	
1866	P-485	33	8.0	12.18	PVC	0.00	46	46	
1672	P-372	153	8.0	12.18	PVC	0.00	46	46	
1077	P-171	800	8.0	-80.53	PVC	0.11	45	45	
1752	P-417	602	8.0	-80.53	PVC	0.08	45	45	
3225	P-890(2)	405	6.0	-185.54	PVC	1.02	44	44	
1814	P-453	312	8.0	360.95	PVC	0.66	43	44	
3337	P-363(1)	477	6.0	7.63	PVC	0.00	46	46	
1942	P-529	247	8.0	-493.84	PVC	0.94	50	50	
1921	P-518	244	8.0	-80.28	PVC	0.03	46	46	
2014	P-573	521	6.0	-65.39	PVC	0.19	44	44	
2473	P-810	1,348	8.0	-199.74	PVC	0.96	47	46	
484	P-84	675	6.0	-211.93	PVC	2.17	48	47	
3493	P-372	314	8.0	-90.01	PVC	0.05	46	46	
3551	P-408	1,134	8.0	-90.01	PVC	0.18	46	46	
3344	P-98(1)	189	6.0	-189.65	PVC	0.50	46	46	
3349	P-98(2)(1)	333	6.0	-189.65	PVC	0.87	47	46	
3350	P-98(2)(2)	568	6.0	-189.65	PVC	1.49	47	47	
3460	P-362	667	8.0	-233.87	PVC	0.63	48	47	
3404	P-600(2)	216	6.0	72.41	PVC	0.10	47	47	
2043	P-592	753	8.0	-286.61	PVC	1.04	45	45	
2096	P-627	123	6.0	11.67	PVC	0.00	46	46	
2214	P-697	455	6.0	-213.69	PVC	1.48	49	48	
1331	P-201	55	6.0	-112.57	PVC	0.06	50	50	
3504	P-379	1,268	8.0	-112.57	PVC	0.31	50	50	
2374	P-756	159	8.0	-461.76	PVC	0.53	46	45	
3469	P-367	694	6.0	-88.04	PVC	0.44	46	46	
3620	P-955(2)(1)	1,177	10.0	-448.26	PVC	1.26	42	41	
350	P-60	265	6.0	-85.81	PVC	0.16	47	47	
2499	P-824	272	8.0	-61.72	PVC	0.02	46	46	
2503	P-826	137	8.0	-61.72	PVC	0.01	46	46	
2524	P-835	136	8.0	-61.72	PVC	0.01	46	46	
2525	P-836	195	8.0	-61.72	PVC	0.02	46	46	
2520	P-833	150	8.0	-61.72	PVC	0.01	46	46	
2515	P-831	236	8.0	-61.72	PVC	0.02	46	46	
1497	P-276	162	8.0	-46.35	PVC	0.01	46	46	
2463	P-804	649	8.0	-184.70	PVC	0.40	46	46	
3524	P-365(2)(1)	262	6.0	-106.02	PVC	0.23	46	46	
1848	P-474	740	10.0	300.45	PVC	0.38	45	45	
1559	P-306	550	8.0	-498.89	PVC	2.12	45	44	
302	P-49	151	8.0	-7.28	PVC	0.00	46	46	
1495	P-274	321	8.0	-7.28	PVC	0.00	46	46	
3152	P-284	158	6.0	237.88	PVC	0.63	47	48	
3163	P-287(2)	525	6.0	237.88	PVC	2.09	46	47	
1273	P-199	1,658	8.0	-26.91	PVC	0.03	46	46	
2397	P-766	190	8.0	-577.15	PVC	0.96	46	46	
2178	P-680	473	8.0	-110.68	PVC	0.11	47	47	
1692	P-379	80	6.0	-188.27	PVC	0.21	47	47	
1693	P-380	469	6.0	-188.27	PVC	1.21	48	47	
2849	P-981	413	6.0	-188.27	PVC	1.07	48	48	
3229	P-238(1)	56	10.0	534.27	PVC	0.08	48	48	
1683	P-376	159	6.0	-196.52	PVC	0.44	46	46	
1684	P-377	505	6.0	-196.52	PVC	1.41	47	46	
2127	P-644	190	6.0	-146.25	PVC	0.31	47	47	
2054	P-598	420	6.0	54.08	PVC	0.11	47	47	
3238	P-191(2)	1,140	8.0	435.60	PVC	3.43	46	47	
3489	P-371	56	8.0	-95.30	PVC	0.01	46	46	

FlexTable: Pipe Table
Current Time: 19.00 hours

ID	Label	Length (Scaled) (ft)	Diameter (in)	Flow (gpm)	Material	Headloss (ft)	Pressure (Stop) (psi)	Pressure (Start) (psi)	Notes
3360	P-378(1)	178	6.0	-91.58	PVC	0.12	46	46	
3540	P-360(2)(1)	903	8.0	-202.94	PVC	0.66	44	43	
961	P-157	290	8.0	-321.11	PVC	0.50	45	45	
521	P-90	1,047	6.0	-71.35	PVC	0.45	47	47	
902	P-146	165	8.0	-109.52	PVC	0.04	43	43	
1919	P-517	257	8.0	-113.17	PVC	0.06	46	46	
1922	P-519	112	8.0	-113.17	PVC	0.03	46	46	
386	P-68	300	6.0	32.64	PVC	0.03	46	46	
3380	P-378(2)(2)	234	6.0	-134.82	PVC	0.33	46	46	
811	P-126	76	8.0	-358.35	PVC	0.16	51	51	
887	P-142	171	8.0	-358.35	PVC	0.36	50	50	
1640	P-353	161	6.0	470.94	PVC	2.27	45	46	
2817	P-960	81	8.0	470.94	PVC	0.28	45	45	
3552	P-409	315	8.0	-108.47	PVC	0.07	46	46	
1847	P-473	436	10.0	365.86	PVC	0.32	45	46	
1749	P-416	279	8.0	-47.68	PVC	0.01	45	45	
1902	P-509	297	10.0	58.97	PVC	0.01	48	48	
1853	P-476	82	6.0	103.25	PVC	0.07	47	47	
3390	P-599(1)	750	6.0	103.25	PVC	0.64	47	47	
1408	P-226	278	6.0	82.42	PVC	0.16	46	46	
1670	P-371	347	8.0	-48.33	PVC	0.02	46	46	
3541	P-360(2)(2)	394	8.0	-356.76	PVC	0.82	44	44	
3621	P-955(2)(2)	137	10.0	-631.58	PVC	0.28	42	42	
3403	P-600(1)	245	6.0	-145.78	PVC	0.39	47	47	
3024	P-912(1)	81	6.0	-216.32	PVC	0.27	50	50	
2970	P-271(2)	42	10.0	-89.41	PVC	0.00	46	46	
2341	P-739	1,338	8.0	-235.41	PVC	1.29	47	46	
2342	P-740	29	8.0	-235.41	PVC	0.03	47	47	
2045	P-593	419	8.0	-507.31	PVC	1.67	46	45	
1703	P-386	68	6.0	-201.91	PVC	0.20	46	46	
1704	P-387	353	6.0	-201.91	PVC	1.04	47	46	
1701	P-384	90	6.0	-201.91	PVC	0.26	47	47	
1702	P-385	330	6.0	-201.91	PVC	0.97	47	47	
3519	P-365(1)	51	6.0	-98.60	PVC	0.04	46	46	
2176	P-679	754	8.0	-154.92	PVC	0.33	45	45	
1232	P-194	1,264	8.0	-154.92	PVC	0.56	46	45	
1764	P-422	101	8.0	-154.92	PVC	0.04	45	45	
3459	P-361	593	8.0	-275.84	PVC	0.76	47	47	
1481	P-266	57	6.0	80.47	PVC	0.03	46	46	
335	P-57	253	6.0	80.47	PVC	0.14	46	46	
2411	P-777	158	6.0	-329.21	PVC	1.15	47	47	
3379	P-378(2)(1)	238	6.0	-151.67	PVC	0.41	46	46	
3599	P-424	60	8.0	-193.40	PVC	0.04	44	44	
975	P-159	119	8.0	1,389.92	PVC	3.07	48	50	
3012	P-630(1)	376	8.0	-48.07	PVC	0.02	46	46	
3605	P-779(1)	635	10.0	-446.91	PVC	0.67	47	46	
1542	P-295	350	10.0	-732.82	PVC	0.93	42	42	
3572	P-984(1)	204	8.0	-556.84	PVC	0.97	47	47	
1442	P-243	60	6.0	-429.29	PVC	0.71	48	48	
3574	P-307(2)(1)(1)	251	8.0	155.74	PVC	0.11	47	47	
1393	P-218	543	6.0	-202.28	PVC	1.60	51	50	
1573	P-313	136	6.0	30.22	PVC	0.01	47	47	
1576	P-315	173	8.0	30.22	PVC	0.00	47	47	
1479	P-264	175	6.0	146.01	PVC	0.28	46	46	
3025	P-912(2)	1,250	6.0	-343.26	PVC	9.81	54	50	
1245	P-196	1,317	8.0	-420.22	PVC	3.71	48	46	
2679	P-909	1,313	6.0	-420.22	PVC	15.00	54	48	
2961	P-736(1)	64	10.0	-680.20	PVC	0.15	44	44	
3013	P-630(2)	472	8.0	-217.59	PVC	0.39	46	46	
3536	P-360(1)	1,020	8.0	-175.29	PVC	0.57	43	43	
596	P-99	1,258	6.0	-371.95	PVC	11.47	54	49	
2156	P-663	175	10.0	-770.30	PVC	0.51	42	42	
2975	P-231	32	10.0	-339.80	PVC	0.02	44	44	
1860	P-480	410	10.0	90.41	PVC	0.02	48	48	
3569	P-307(2)(1)(2)	413	8.0	-0.53	PVC	0.00	47	47	
1943	P-530	805	8.0	-581.18	PVC	4.13	49	47	
1738	P-410	78	10.0	105.24	PVC	0.01	46	46	
1551	P-300	791	10.0	-838.66	PVC	2.70	44	42	
2861	P-987	1,201	8.0	-569.62	PVC	5.93	50	48	
533	P-92	776	6.0	-284.56	PVC	4.31	48	47	
1944	P-531	193	8.0	-640.42	PVC	1.18	50	49	
1947	P-532	34	10.0	-895.54	PVC	0.13	49	49	
2957	P-776(2)	1,284	10.0	-895.54	PVC	4.95	49	47	
1705	P-388	101	8.0	-82.96	PVC	0.01	46	46	
985	P-161	340	8.0	-82.96	PVC	0.05	46	46	
1706	P-389	323	8.0	-82.96	PVC	0.05	46	46	
1857	P-477	632	8.0	-77.58	PVC	0.08	48	48	
2416	P-780	35	10.0	-705.30	PVC	0.09	47	47	
3606	P-779(2)	618	10.0	-705.30	PVC	1.53	47	47	
1552	P-301	56	10.0	-996.03	PVC	0.26	44	44	
3394	P-307(1)	1,090	8.0	122.44	PVC	0.31	47	47	
1451	P-247	129	10.0	15.19	PVC	0.00	46	46	

FlexTable: Pipe Table
Current Time: 19.00 hours

ID	Label	Length (Scaled) (ft)	Diameter (in)	Flow (gpm)	Material	Headloss (ft)	Pressure (Stop) (psi)	Pressure (Start) (psi)	Notes
2093	P-624	39	8.0	-338.18	PVC	0.07	46	46	
2102	P-631	256	8.0	-338.18	PVC	0.48	46	46	
1124	P-179	891	8.0	254.85	PVC	0.99	46	46	
3575	P-307(2)(1)(1)	462	8.0	-169.16	PVC	0.24	47	47	
1737	P-409	736	10.0	86.26	PVC	0.04	46	46	
2686	P-913	1,325	8.0	-560.76	PVC	6.36	53	51	
2651	P-982	686	12.0	-315.38	PVC	0.16	50	50	
3232	P-305	1,130	8.0	104.99	PVC	0.24	48	48	
1859	P-479	58	10.0	436.66	PVC	0.06	48	48	
1452	P-248	387	10.0	-59.82	PVC	0.01	46	46	
1869	P-489	814	10.0	-59.82	PVC	0.02	46	46	
1977	P-548	625	10.0	-703.17	PVC	1.54	45	44	
1858	P-478	1,033	8.0	-422.26	PVC	2.93	49	48	
1697	P-381	480	8.0	-422.26	PVC	1.36	50	49	
2788	P-946	618	8.0	-532.10	PVC	2.69	51	50	
2852	P-983	635	12.0	-452.62	PVC	0.28	50	50	
1939	P-528	62	8.0	-135.43	PVC	0.02	50	50	
3505	P-380	1,319	8.0	-538.98	PVC	5.88	53	50	
2085	P-616	26	10.0	-1,423.36	PVC	0.24	48	48	
2789	P-947	649	8.0	-758.59	PVC	5.46	54	51	
1403	P-222	41	10.0	-867.13	PVC	0.15	46	46	
2166	P-672	152	10.0	-699.44	PVC	0.37	47	47	
1897	P-506	29	10.0	-405.19	PVC	0.03	47	47	
1899	P-507	367	10.0	-405.19	PVC	0.33	47	47	
1901	P-508	377	10.0	-405.19	PVC	0.33	48	47	
3236	P-306	569	8.0	451.23	PVC	1.83	47	48	
2086	P-617	45	10.0	-1,030.84	PVC	0.23	48	48	
1870	P-490	307	10.0	-157.56	PVC	0.05	46	46	
1712	P-392	69	10.0	-207.25	PVC	0.02	46	46	
1708	P-390	158	10.0	-207.25	PVC	0.04	46	46	
1709	P-391	67	10.0	-207.25	PVC	0.02	46	46	
1468	P-257	328	10.0	496.71	PVC	0.42	46	46	
1895	P-505	395	10.0	-478.04	PVC	0.48	47	47	
1767	P-423	330	10.0	-141.35	PVC	0.04	46	46	
3376	P-393(2)(1)	236	10.0	-366.89	PVC	0.17	46	46	
1978	P-549	662	10.0	-1,024.27	PVC	3.27	46	45	
1953	P-535	38	10.0	-1,024.27	PVC	0.19	46	46	
3356	P-393(1)	346	10.0	-274.24	PVC	0.15	46	46	
2675	P-908	1,352	8.0	-925.35	PVC	16.41	54	47	
1464	P-254	127	10.0	341.24	PVC	0.08	46	46	
2168	P-673	1,407	10.0	603.06	PVC	2.61	46	47	
54	P-2	80	10.0	-669.76	PVC	0.18	46	46	
110	P-10	326	12.0	-669.76	PVC	0.30	46	46	
1893	P-504	155	10.0	-582.32	PVC	0.27	47	47	
1463	P-253	37	10.0	540.82	PVC	0.06	46	46	
1887	P-501	690	10.0	-426.88	PVC	0.67	46	46	
3377	P-393(2)(2)	218	10.0	-383.74	PVC	0.17	46	46	
1769	P-424	54	10.0	-135.29	PVC	0.01	46	46	
1399	P-221	346	10.0	-889.09	PVC	1.32	48	47	
1428	P-236	82	10.0	-889.09	PVC	0.31	47	47	
2165	P-671	639	10.0	-785.25	PVC	1.93	47	46	
1398	P-220	1,004	10.0	359.08	PVC	0.71	48	48	
1891	P-503	317	10.0	-736.16	PVC	0.85	47	47	
1770	P-425	651	10.0	-290.21	PVC	0.31	46	46	
1889	P-502	151	10.0	-822.71	PVC	0.50	47	46	
798	P-121	90	8.0	994.39	PVC	1.24	50	51	
780	P-118	199	8.0	0.00	PVC	0.00	-1	-1	Transfer Line
875	P-136	226	8.0	0.00	PVC	0.00	-1	-1	Transfer Line
1389	P-215	2,392	8.0	0.00	PVC	0.00	-1	-1	Transfer Line
2131	P-648	110	8.0	0.00	PVC	0.00	-1	-1	Transfer Line
2132	P-649	217	8.0	0.00	PVC	0.00	-1	-1	Transfer Line
2151	P-660	648	8.0	0.00	PVC	0.00	-1	-1	Transfer Line
2152	P-661	80	8.0	0.00	PVC	0.00	-1	-1	Transfer Line
2660	P-902	248	8.0	0.00	PVC	0.00	-1	-1	Transfer Line
2661	P-903	336	8.0	0.00	PVC	0.00	-1	-1	Transfer Line
2722	P-927	73	14.0	-2,622.06	PVC	0.40	54	56	
1381	P-211	152	12.0	-971.36	PVC	0.28	53	53	

**Scenario: 2037
Tank Cycling Analysis**

Tank Table - Time: 0.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	-959.59	223.50	98.6	Filling
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	-1,220.98	215.25	99.1	Filling
1356	Tank No. 3 - 9th Street	102.00	186.00	220.25	220.37	-3,251.12	220.25	99.7	Filling
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	-285.02	98.50	92.3	Filling
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	-3,016.05	111.50	96.9	Filling

Tank Table - Time: 1.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	-1,340.11	217.32	74.0	Filling
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	-905.62	214.67	96.2	Filling
1356	Tank No. 3 - 9th Street	102.00	186.00	220.25	220.37	-3,306.57	216.24	88.0	Filling
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	753.46	97.99	84.5	Emptying
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	-4,266.73	111.47	96.7	Filling

Tank Table - Time: 2.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	310.26	215.97	68.7	Emptying
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	722.88	214.57	95.8	Emptying
1356	Tank No. 3 - 9th Street	102.00	186.00	220.25	220.37	1,026.99	214.56	83.1	Emptying
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	-226.38	97.85	82.3	Filling
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	-12,563.97	111.33	95.8	Filling

Tank Table - Time: 3.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	687.68	216.71	71.6	Emptying
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	1,125.26	214.74	96.6	Emptying
1356	Tank No. 3 - 9th Street	102.00	186.00	220.25	220.37	1,663.66	215.18	84.9	Emptying
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	-222.06	98.51	92.4	Filling
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	-10,796.51	111.48	96.8	Filling

Tank Table - Time: 4.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	144.65	219.41	82.3	Emptying
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	494.42	214.54	95.6	Emptying
1356	Tank No. 3 - 9th Street	102.00	186.00	220.25	220.37	-2,100.79	218.28	93.9	Filling
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	758.15	98.53	92.7	Emptying
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	-2,193.24	111.62	97.6	Filling

Tank Table - Time: 5.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	1,320.85	223.71	99.5	Emptying
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	952.16	215.24	99.1	Emptying
1356	Tank No. 3 - 9th Street	102.00	186.00	220.25	220.37	0.00	220.37	100.0	Full
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	-1,004.62	97.83	82.0	Filling
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	-6,449.98	111.18	94.9	Filling

Tank Table - Time: 6.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	994.90	215.84	68.1	Emptying
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	1,704.20	211.00	78.1	Emptying
1356	Tank No. 3 - 9th Street	102.00	186.00	220.25	220.37	0.00	220.37	100.0	Full
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	788.07	97.96	84.0	Emptying
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	-21,745.66	109.15	82.2	Filling

Tank Table - Time: 7.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	-299.80	207.20	33.7	Filling
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	678.42	204.17	44.2	Emptying
1356	Tank No. 3 - 9th Street	102.00	186.00	220.25	220.37	-511.28	220.09	99.2	Filling
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	-157.13	97.76	81.0	Filling
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	-31,437.91	106.97	68.6	Filling

Tank Table - Time: 8.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	-1,309.33	211.54	51.0	Filling
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	-1,154.57	202.63	36.6	Filling
1356	Tank No. 3 - 9th Street	102.00	186.00	220.25	220.37	0.00	220.37	100.0	Full
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	-191.74	98.23	88.2	Filling
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	-36,528.20	105.85	61.6	Filling

Tank Table - Time: 9.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	0.00	223.84	100.0	Full
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	-1,490.37	207.72	61.8	Filling
1356	Tank No. 3 - 9th Street	102.00	186.00	220.25	220.37	0.00	220.37	100.0	Full
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	-990.32	98.89	98.3	Filling
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	-31,238.08	107.17	69.8	Filling

Tank Table - Time: 10.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	0.00	223.84	100.0	Full
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	-1,375.34	214.01	93.0	Filling
1356	Tank No. 3 - 9th Street	102.00	186.00	220.25	220.37	0.00	220.37	100.0	Full
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	0.00	99.00	100.0	Filling
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	-35,490.69	106.43	65.2	Filling

Tank Table - Time: 11.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	1,724.10	219.92	84.4	Emptying
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	1,391.65	214.96	97.7	Emptying
1356	Tank No. 3 - 9th Street	102.00	186.00	220.25	220.37	2,561.73	219.48	97.4	Emptying
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	0.00	99.00	100.0	Filling
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	-16.67	112.00	100.0	Filling

Tank Table - Time: 12.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	1,724.10	219.92	84.4	Emptying
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	1,391.65	214.96	97.7	Emptying
1356	Tank No. 3 - 9th Street	102.00	186.00	220.25	220.37	2,561.73	219.48	97.4	Emptying
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	0.00	99.00	100.0	Filling
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	-16.67	112.00	100.0	Filling

Tank Table - Time: 12.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	-526.00	218.24	77.7	Filling
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	-76.26	214.40	94.9	Filling
1356	Tank No. 3 - 9th Street	102.00	186.00	220.25	220.37	-2,225.74	220.35	99.9	Filling
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	765.20	98.75	96.2	Emptying
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	5,192.08	111.97	99.8	Emptying

Tank Table - Time: 13.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	1,308.97	222.40	94.3	Emptying
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	1,218.93	215.04	98.1	Emptying
1356	Tank No. 3 - 9th Street	102.00	186.00	220.25	220.37	2,405.17	219.58	97.7	Emptying
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	-263.06	97.61	78.6	Filling
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	-952.75	111.98	99.9	Filling

Tank Table - Time: 14.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	-1,272.48	222.02	92.7	Filling
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	-1,017.97	214.81	96.9	Filling
1356	Tank No. 3 - 9th Street	102.00	186.00	220.25	220.37	0.00	220.37	100.0	Full
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	-281.97	98.33	89.6	Filling
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	-1,705.02	111.62	97.6	Filling

Tank Table - Time: 15.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	258.67	218.24	77.7	Emptying
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	20.88	214.42	95.0	Emptying
1356	Tank No. 3 - 9th Street	102.00	186.00	220.25	220.37	-2,367.93	218.49	94.5	Filling
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	0.00	99.00	100.0	Filling
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	6,052.03	111.99	99.9	Emptying

Tank Table - Time: 16.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	-1,420.57	219.65	83.3	Filling
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	-909.69	214.72	96.5	Filling
1356	Tank No. 3 - 9th Street	102.00	186.00	220.25	220.37	0.00	220.37	100.0	Full
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	738.69	98.56	93.2	Emptying
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	-4,391.91	111.49	96.8	Filling

Tank Table - Time: 17.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	1,581.79	220.93	88.4	Emptying
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	1,783.05	214.53	95.5	Emptying
1356	Tank No. 3 - 9th Street	102.00	186.00	220.25	220.37	2,970.00	218.56	94.7	Emptying
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	-245.03	97.68	79.6	Filling
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	-4,142.49	111.89	99.3	Filling

Tank Table - Time: 18.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	1,298.46	223.43	98.4	Emptying
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	967.63	215.29	99.3	Emptying
1356	Tank No. 3 - 9th Street	102.00	186.00	220.25	220.37	0.00	220.37	100.0	Full
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	-1,002.53	98.61	97.1	Filling
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	-3,916.95	111.42	96.3	Filling

Tank Table - Time: 19.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	994.39	215.81	68.0	Emptying
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	1,706.00	211.00	78.1	Emptying
1356	Tank No. 3 - 9th Street	102.00	186.00	220.25	220.37	0.00	220.37	100.0	Full
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	788.05	97.93	83.6	Emptying
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	-22,184.55	109.07	81.7	Filling

Tank Table - Time: 20.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	-303.73	207.16	33.5	Filling
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	679.66	204.16	44.2	Emptying
1356	Tank No. 3 - 9th Street	102.00	186.00	220.25	220.37	-506.87	220.10	99.2	Filling
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	-156.62	97.77	81.1	Filling
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	-31,804.40	106.89	68.0	Filling

Tank Table - Time: 21.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	-1,907.22	211.56	51.1	Filling
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	-1,728.86	202.61	36.5	Filling
1356	Tank No. 3 - 9th Street	102.00	186.00	220.25	220.37	0.00	220.37	100.0	Full
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	-206.17	98.24	88.2	Filling
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	-36,929.86	105.81	61.3	Filling

Tank Table - Time: 22.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	0.00	223.84	100.0	Full
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	-3,417.33	210.99	78.0	Filling
1356	Tank No. 3 - 9th Street	102.00	186.00	220.25	220.37	0.00	220.37	100.0	Full
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	0.00	99.00	100.0	Filling
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	-5,851.91	111.46	96.6	Filling

Tank Table - Time: 23.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	293.51	216.96	72.6	Emptying
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	564.09	214.99	97.8	Emptying
1356	Tank No. 3 - 9th Street	102.00	186.00	220.25	220.37	1,204.74	216.43	88.5	Emptying
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	776.41	98.54	92.9	Emptying
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	-0.04	112.00	100.0	Filling

Tank Table - Time: 24.00 hours

Tank Table - Time: 24.00 hours

ID	Label	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)	Percent Full (%)	Current Status
1354	Tank No. 1 - N. Tower	97.09	198.75	223.50	223.84	402.47	217.85	76.1	Emptying
1355	Tank No. 2 - 8th Street	100.93	195.25	215.25	215.43	496.07	215.04	98.1	Emptying
1356	Tank No. 3 - 9th Street	102.00	186.00	220.25	220.37	1,175.58	216.61	89.1	Emptying
2667	Ground Storage Tower Rd	90.00	92.50	98.50	99.00	-241.80	97.67	79.6	Filling
2894	WTP Ground Storage	95.00	96.00	111.50	112.00	+8,283.68	111.67	97.9	Filling