WATER MASTER PLAN UPDATE

Submitted to:

Town of Erie

Project Number P12-227

TOWN OF ERIE
1874

Submitted by:

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September 2013

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October 23, 2013

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Town of Erie
c/o: Wendi Palmer, P.E.
Civil Engineer
645 Holbrook Street
Eire, Colorado 80516

RE: LETTER OF TRANSMITTAL – WATER MASTER PLAN UPDATE

Dear Ms. Palmer:

Submitted attached are the Water Master Plan Update, revised to include staff review comments. The Master Plan should serve as a long range planning tool for the Town's water system, providing guidance for implementing capital improvements to provide system reliability and meet future growth needs.

The need for the Master Plan has been driven changes in development. At buildout, the proposed development would increase water demands by a factor of 5.4.

The Plan has been based on the Town's development projections as established in various planning studies, including the Town's 2005 Comprehensive Plan and multiple development studies. Town Staff identified areas within the Planning Boundary to be excluded from the planning projections. Those areas are indicated on the Master Plan Drawing.

A summary of findings from the Master Planning include:

- ✓ Projected maximum day water demand is 39,145,000 gal/day at buildout of the Town and planning boundary.
- ✓ Inadequate Storage in Zone 3, add 4 MG near existing tank.
- ✓ Add Zone 4B elevated tank.
- ✓ Increase transmission piping to storage tanks.
- ✓ Increase treatment capacity at Water Treatment Facility.

We appreciate the opportunity to work with you on this important planning project.

Respectfully Submitted,
Merrick-McLaughlin Water Engineers, Ltd.

Terrence P. Kenyon, P.E.

Melanie S. Asquith, P.E.

Enclosure: Water Master Plan Update

WATER MASTER PLAN UPDATE FOR THE TOWN OF ERIE, COLORADO

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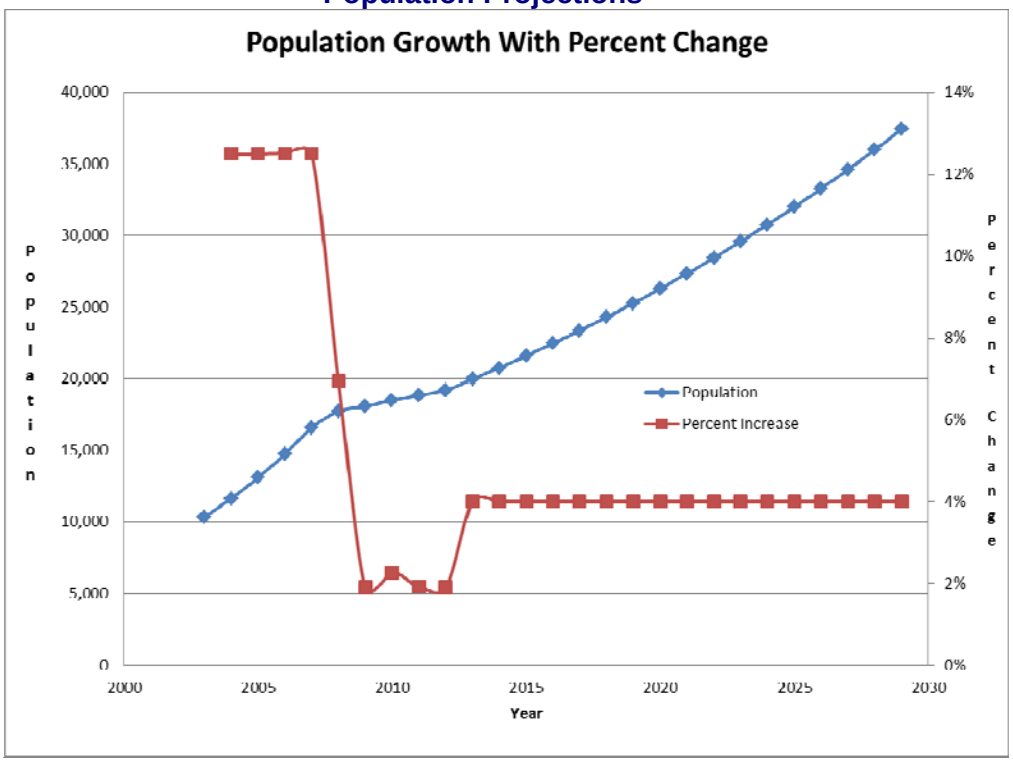
BACKGROUND

The Town of Erie's water system encompasses over 120 miles of treated water mains, a water treatment facility, storage clearwells, two booster pump stations, a water storage tank and 16 PRV stations.

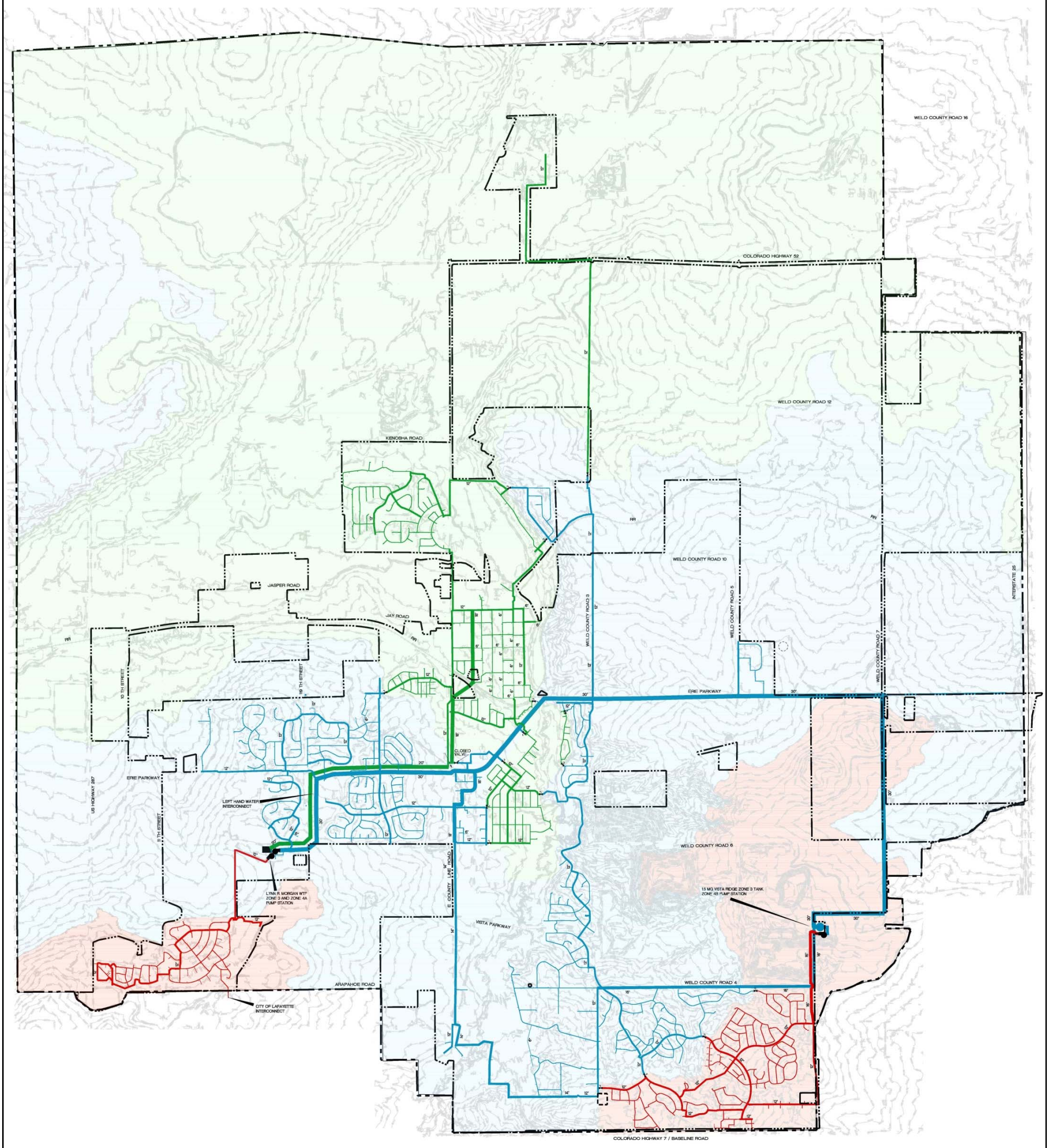
The 2010 census noted Erie's population as 18,135. The Comprehensive Plan projects substantial future development which will impact existing water utilities and require significant investment in new infrastructure. Therefore, Erie has recognized the need to update its comprehensive water master planning to help guide growth of these systems.

LAND USE PLANNING AND GROWTH PROJECTIONS

Figure II-A
Population Projections



The Boulder County Development and Weld County Development Spreadsheets (located in the Appendix) present projected development and future water demands by pressure zone. Erie's Land Use Plan Map, Zoning Map and Comprehensive Plan were used to establish projected growth where



TOWN OF ERIE
EXISTING WATER SYSTEM

Figure IV-A
Existing Water System

TOWN OF ERIE
1874

development plans were not available. Based on the Comprehensive Plan, unit densities were assigned to each residential parcel and are presented as follows.

Table II-A
Land Use Density

Land Use	Density
Rural Density	1 unit/acre
Low Density	4 units/acre
Medium Density	8 units/acre
High Density	16 units/acre
Mixed Use	50% Land Medium Density

The Comprehensive Plan projected a total population of 40,680 by 2025. The lower than predicted 2% growth between 2009 and 2012 slowed those projections. Development requests have increased in 2013; therefore, the 2012 population of 19,215 was increased at the Plan's suggested 4% growth to a revised 2025 projected population of approximately 31,994.

WATER DEMAND PROJECTIONS

The rate of water use is affected by many factors and varies yearly, monthly, daily and hourly. Demand flow rates must be defined in order to properly design a water system. Water distribution systems are typically analyzed for the following flow demands; average day, maximum day, peak hour, and fire flows. The average day is used for estimating total water requirements based on average annual use. Maximum day is the highest daily flow rate which can be expected and the peak hour is the highest expected demand in any 60 minute period of one day.

Maximum day demand is used to size treatment plant and pumping facilities. Peak hour demands vary throughout the day – with higher-than-average demands experienced in the morning and evening hours, average throughout the day, and lower-than-average demands at night.

Erie's usage data indicates an average peaking factor of 2.61 (maximum to average day) for the last ten years. Previous studies have assumed a ratio of 2.85. Conservation measures justify lowering the projected peaking factor multiplier.

Table III-C
Projected Water Demand for Planning Area Boundary

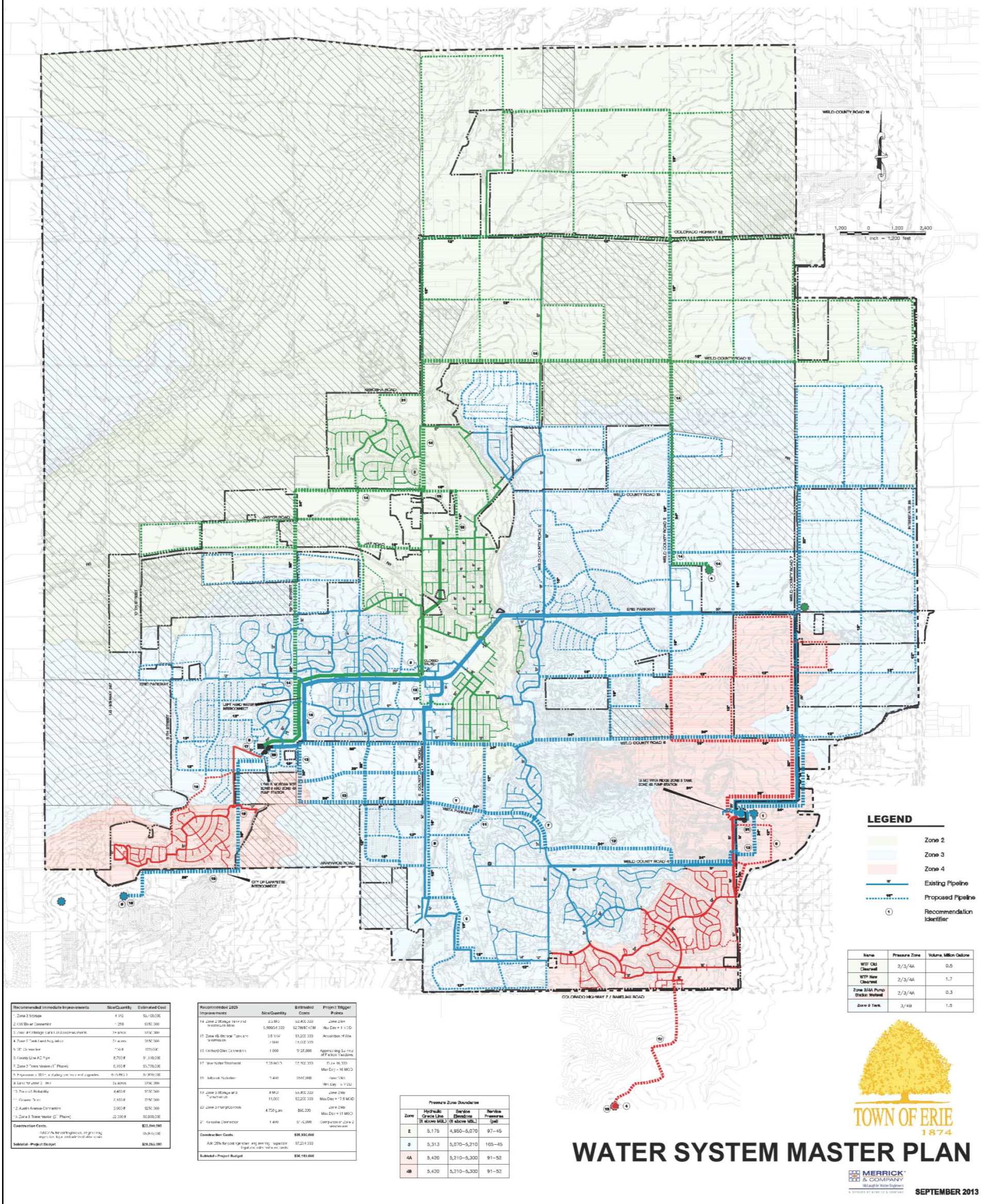
Customer Classification	Dwelling Units/ Acres	Maximum Day Demand, gpd/unit	Maximum Day Demand, gpd
Residential	33,517	1,000	33,517,000
Commercial (includes park facilities)	2042	3,000	6,126,000
Industrial	306	1,630	498,000
		Estimated Maximum Day Demand	**39,145,000**

RECOMMENDED IMPROVEMENTS

The Water System Master Plan is illustrated on the enclosed Drawing. Numbers for recommended improvements on the drawing correlate to the numbering within the following tables.

The recommended improvements have been broken into three categories: immediate needs (to be completed within the next five years), improvements to accommodate growth prior to 2025 and ultimate buildout recommendations.

The numbering of items within the tables represents priority as established by system need and Staff input. Additional Zone 3 Storage is an urgent operational priority. Zone 4B Storage is suggested to aid in reliability but to also alleviate Zone 3 Storage problems. The projects to address both system deficiencies and growth are listed on the following tables.



Recommended Immediate Improvements	Size/Quantity	Estimated Cost
1. Zone 3 Storage	4 MG	$5,700,000
2. Old Elder Connector	1,250	$150,000
3. Zone 4A Storage Tank Land and Improvements	3+ acres	$150,000
4. Zone 3 Tank Land Acquisition	3+ acres	$150,000
5. SE Connector	1,100 ft	$220,000
6. County Line AC Pipe	8,700 ft	$1,110,000
7. Zone 3 Transmission (1st Phase)	6,100 ft	$3,720,000
8. Improvements WTP, including pre-treatment upgrades	45-55 MGD	$5,000,000
9. Land for Zone 3 WTP	3+ acres	$150,000
10. Tank 45 Reliability	4,400 ft	$132,000
11. Colorado Tank	5,100 ft	$150,000
12. Austin Avenue Connection	2,000 ft	$250,000
13. Zone 3 Transmission (2nd Phase)	22,300 ft	$3,000,000
Construction Costs		$23,800,000
Add 25% for contingencies, engineering, inspection, legal, and administrative costs		$5,950,000
Subtotal - Project Budget		$29,750,000

Recommended 2025 Improvements	Size/Quantity	Estimated Costs	Project Trigger Points
14. Zone 2 Storage Tank and Transmission Main	2.0 MG / 5,900 LF	$2,800,000 / $2,780,000	Zone 2/4A Max Day = 1.1 MGD
15. Zone 4B Storage Tank and Transmission	3.5 MG / 1,000 LF	$1,200,000 / $1,000,000	Acquisition Date
16. Orchard Glen Connection	1,000	$125,000	Approaching 3,000 residential service connections
17. New Water Treatment	5.25 MGD	$7,500,000	Date TBD Max Day = 16 MGD
18. Milbrook Reliability	1,400	$350,000	Date TBD Max Day = 6 MGD
19. Zone 3 Storage and Transmission	4 MG / 11,000	$3,800,000 / $2,200,000	Zone 2/4a Max Day = 7.5 MGD
20. Zone 3 Pump Upgrade	4,750 gpm	$80,000	Zone 2/4a Max Day = 11 MGD
21. Arapahoe Connector	1,400	$140,000	Completion of Zone 2 transmission
Construction Costs		$20,935,000	
Add 25% for cost contingencies, engineering, inspection, legal, and administrative costs		$5,234,000	
Subtotal - Project Budget		$26,169,000	

Pressure Zone Boundaries			
Zone	Hydraulic Grade Line (ft above MSL)	Service Elevations (ft above MSL)	Service Pressures (psi)
2	5,175	4,950–5,070	97–45
3	5,313	5,070–5,210	105–45
4A	5,420	5,210–5,300	91–52
4B	5,420	5,210–5,300	91–52

Name	Pressure Zone	Volume, Million Gallons
WTF Old Clearwell	2/3/4A	0.5
WTF New Clearwell	2/3/4A	1.7
Zone 3/4A Pump Station Wetwell	2/3/4A	0.3
Zone 3 Tank	3/4B	1.5

Figure V-A

Water System Master Plan

Table V-C
Immediate Recommendations

Item	Description	Size	Length (ft)
1. Zone 3 Storage	Zone 3 Storage Tank at Vista Ridge Tank site.	4 MG	
2. CW Bixler Connection	Connect 12-inch distribution at both ends of CW Bixler Blvd.	12”	1,250
3. Zone 4B Storage Tank Land and Easements	Complete negotiations for, and a tank siting study to evaluate possible locations for a Zone 4B elevated storage tank.	0.5 MG	N/A
4. Zone 2 Storage Tank Land and Easements	Acquire land at the appropriate elevation for an additional Zone 2 storage tank. Include any easements for transmission main.	N/A	N/A
5. 20” Connection	Complete connection of new 20” to existing 18” in Erie Parkway.	20”	100
6. County Line AC Pipe	Replace aging AC pipe in County Line Rd.	16”	8,000
7. Zone 3 Transmission (1st Phase)	Zone 3 transmission, 24” pipeline in Vista Parkway between County Line Road and CR 3.	24”	6,100
8. Expansion of WTF	Equip existing water plant with additional microfiltration modules, upgrade pretreatment to full capacity. Begin investigating expansion options or alternative site for additional treatment capacity.	N/A	N/A
9. Land for Zone 3 Tank	Acquire land and easements for 4 MG Zone 3 Tank and Transmission Main	N/A	N/A
10. Zone 4A/4B Reliability	Construct secondary Zone 4A transmission line. (Zone 4B reliability achieved if tank determined feasible.)	12”	4,400
11. Cessna Drive Looping	Connect dead end in Cessna Dr. with line extension from Parkdale Circle.	12”	1,000
12. Austin Ave. Connection	Connect Zone 2 lines in County Line Road from Erie Parkway to Austin Ave./Mason St.	12”	2,000
13. Zone 3 Transmission (2nd Phase)	Completion of Zone 3 transmission main. (36” from plant to 119th Street, 24” remainder of the alignment.)	36”/24”	22,000

Note: Item number corresponds to numbering on Water System Master Plan Drawing.

Table V-D
2025 Recommendations

Name	Description	Size	Length (ft)
14. Zone 2 Storage Tank and Transmission	2.5 MG storage tank for Zone 2. 9,800 lf of 30” and 34,000 lf of 24” Zone 2 transmission main from the plant to tank.	2.5 MG 30”/24”	9,800/ 34,000
15. Zone 4B Storage Tank and Transmission	Elevated 0.5 MG storage tank with transmission main.	0.5 MG 16”	7,000
16. Orchard Glen Connection	Connect 12” in Austin Ave. to 12” in Meadow Sweet Farm Parkway.	12”	1,000
17. New Water Treatment	Expand WTF at current site or construct new WTF in ±5.35 MGD increments.	N/A	N/A
18. Holbrook Waterline	Connect waterline in Holbrook St. from Evans St. to WCR 10/County Line.	16”	3,400
19. Zone 3 Storage and Transmission	Additional 4 MG water storage tank and 20” transmission line from WTF to tank.	20”	11,000
20. Zone 3 Pump	Additional 4,750 gpm pumping capacity for Zone 3.	N/A	N/A
21. Kenosha Connection	Zone 2 distribution line in County Line from WCR 10½ to Kenosha Rd.	12”	1,400

Note: Item number corresponds to numbering on Master Plan Drawing.

Table V-E
Buildout Recommendations

Name	Description	Diameter (inches)	Length (ft)
Zone 3 Transmission	Transmission line in WCR 6 from County Line Road to tanks.	30/24	24,000
Water Treatment Capacity	Additional water treatment facilities in three 5.35 MGD increments.	N/A	N/A
Zone 3 Pumping	Additional 3,700 gpm pump. Location to be determined by additional treatment site.	N/A	N/A
Zone 4B Pumping	Additional 2,800 gpm pumping capacity. (Unless gravity storage is constructed.) Possible new pump station.	N/A	N/A
Old Town Replacements	As waterlines are repaired or replaced in Old Town, replace all 6” with minimum 8”.	N/A	N/A

SECTION I
INTRODUCTION

BACKGROUND

The Town of Erie's water system encompasses over 120 miles of treated water mains, a water treatment facility, storage clearwells, two booster pump stations, a water storage tank and 16 PRV stations.

The 2010 census noted Erie's population as 18,135. The Comprehensive Plan projects substantial future development which will impact existing water utilities and require significant investment in new infrastructure. Therefore, Erie has recognized the need to update its comprehensive water master planning to help guide growth of these systems.

PURPOSE

The purpose of this study is to create an updated Master Plan document that can serve as a long-range management tool for Erie's treated water utility.

The previous Water Master Plan was completed by Black and Veatch in 2006. Many of the recommended waterline improvements have been completed over the last 7 years. This update will incorporate all of the improvements as well as the changes to proposed land use within the Planning Boundary.

The Master Plan defines, at a conceptual level, the size and locations for storage tanks, transmission/distribution piping, pump stations, and treatment facilities necessary to provide service to future developments. It also evaluates the existing systems to identify deficiencies and recommend improvements. It is intended to be a flexible document as to timing, presenting guidance for implementing physical improvements as dictated by system/development requirements.

For this master plan, the Regional facilities are primarily addressed. Regional facilities generally serve the entire Town, or large tracts, and include: treatment plants, transmission and primary distribution mains, storage tanks, and pump stations. The effects of the local distribution system on Regional facilities (e.g., demand patterns) are also considered in this report.

SECTION II
STUDY AREA DEFINITION AND GROWTH PROJECTIONS

SERVICE AREA

The study area for the Water Master Plan Update is the Planning Area Boundary (approximately 46 square miles), established by Erie's Comprehensive Plan (Plan), dated July 20, 2011. This defines a logical boundary for efficient expansion of municipal services to undeveloped areas, providing a basis of inclusion for determining future demands. The Planning Area is illustrated on the Water System Master Plan Drawing bound at the back of this report.

Through discussions with Staff, sections of the Planning Area known to either be serviced by Left Hand Water District or planned as Boulder County Open Space were not included in growth projections.

LAND USE PLANNING AND GROWTH PROJECTIONS

A number of planning and engineering reports completed over the last decade have estimated current and projected growth and resulting population. The recently completed "Wastewater Utility Plan", Indigo Water Group, LLC, 2013, presented an evaluation of historic and projected growth, based solely upon population projections.

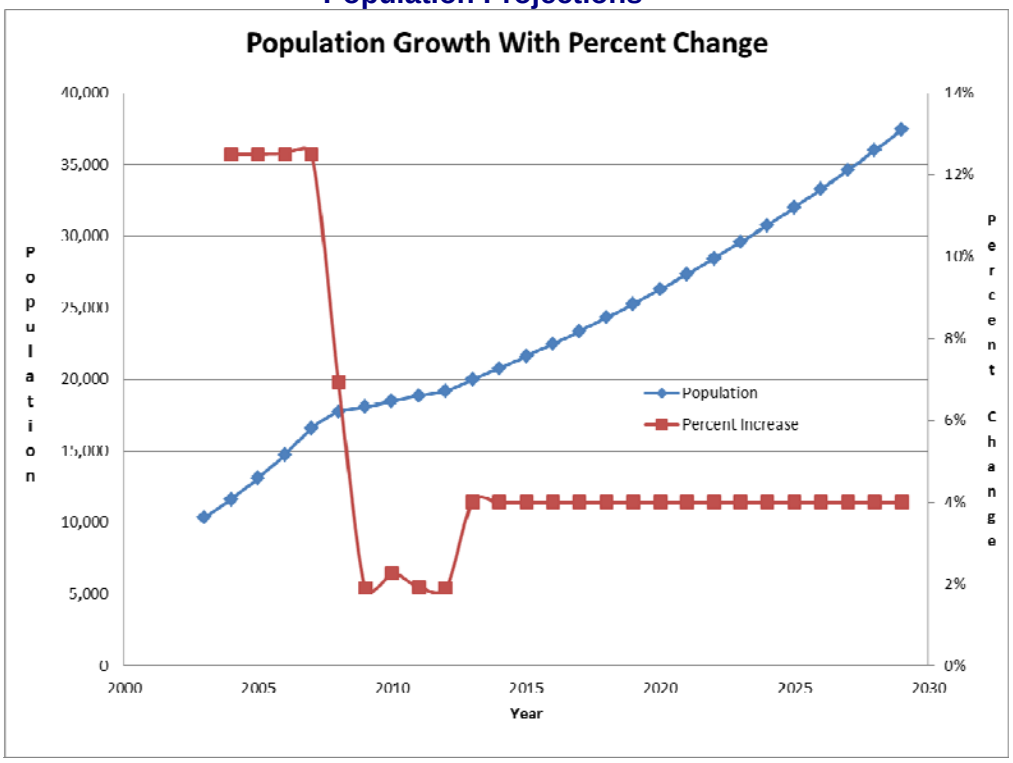
Growth forecasts, combined with percent change, have been graphed on Figure II-A. This illustrates the greatly varying growth experienced over the past 10 years. Years 2003 – 2007 showed growth well above 10% per year; yet, due to the economic downturn, the trend has drastically decreased and stabilized over the last five years, averaging 2% per year.

The Comprehensive Plan projected rapid growth; 6% through 2010 and a forecasted 4% average growth to buildout. Total projected population for 2012 per the Plan was 22,270 with 7,961 dwelling units. Actual population and dwelling units for 2012 were 19,215 and 6,887 respectively, almost 16% lower than predicted.

Population projections are frequently relied on for establishing water demands and have been used in many of the planning reports and documents. The

assumption is that population increases are directly proportional to water usage. This approach can be overly simplistic, particularly for communities where the relative mix of commercial and industrial customers, with very different demand requirements, may change over time. The majority of Erie's existing and projected growth is residential. We have projected equivalent dwelling units in combination with commercial/industrial usage to establish future water demands.

Figure II-A
Population Projections



The Boulder County Development and Weld County Development Spreadsheets (located in the Appendix) present projected development and future water demands by pressure zone. The Object ID listed in the spreadsheets correlates to Erie's GIS land use descriptions. Erie's Land Use Plan Map, Zoning Map and Comprehensive Plan were used to establish projected growth where development plans were not available. Based on the Comprehensive Plan, unit densities were assigned to each residential parcel and are presented as follows.

Table II-A
Land Use Density

Land Use	Density
Rural Density	1 unit/acre
Low Density	4 units/acre
Medium Density	8 units/acre
High Density	16 units/acre
Mixed Use	50% Land Medium Density

The Comprehensive Plan projected a total population of 40,680 by 2025. The lower than predicted 2% growth between 2009 and 2012 slowed those projections. Development requests have increased in 2013; therefore, the 2012 population of 19,215 was increased at the Plan's suggested 4% growth to a revised 2025 projected population of approximately 31,994.

SECTION III
DESIGN CONSIDERATIONS AND DEMANDS

WATER DEMANDS

The rate of water use is affected by many factors and varies yearly, monthly, daily and hourly. Demand flow rates must be defined in order to properly design a water system. Water distribution systems are typically analyzed for the following flow demands; average day, maximum day, peak hour, and fire flows. The average day is used for estimating total water requirements based on average annual use. Maximum day is the highest daily flow rate which can be expected and the peak hour is the highest expected demand in any 60 minute period of one day.

Maximum day demand is used to size treatment plant and pumping facilities. Peak hour demands vary throughout the day – with higher-than-average demands experienced in the morning and evening hours, average throughout the day, and lower-than-average demands at night.

Maximum Day/Average Day Ratio

Historical maximum day requirements can be approximated from treatment plant production records. Water production rates were evaluated for the years 2003-2012. The relationship between average day and maximum day demands was calculated, Table III-A, and showed a declining trend over the last decade.

Table III-A
Historic Water Production Rates

Year	Yearly Production, gal.	Maximum Monthly Demand MGD	Average Daily Demand, MG.	Maximum Daily Demand, MG	MD/AD Ratio
2003	546,506,000	88.7	1.50	4.32	2.89
2004	649,992,000	78.2	1.78	4.64	2.61
2005	820,543,000	138.3	2.25	5.80	2.58
2006	925,955,000	145.4	2.54	6.39	2.52
2007	912,606,000	162.6	2.50	7.25	2.90
2008	941,162,000	232.9	2.58	7.25	2.81
2009	864,471,000	104.9	2.37	5.81	2.45
2010	921,863,000	147.2	2.53	6.25	2.48
2011	966,062,000	172.5	2.65	6.45	2.44
2012	1,072,415,000	174.1	2.94	7.16	2.44
				Average	**2.61**

Erie's usage data indicates an average peaking factor of 2.61 (maximum to average day) over the last ten years. Previous studies have assumed a ratio of 2.85. Conservation measures justify lowering the projected peaking factor multiplier.

Peak Hour Demands

Peak flow conditions are used to evaluate the treated water transmission/distribution system, i.e., whether or not the pipe sizes and network configuration are adequate. It is efficient to use treated water storage to supply the higher demand rates; tanks can be refilled during periods of low demand, when supply capacity exceeds demand.

It can be difficult to accurately estimate peak hour demands, having to account for the ballasting effect of storage tanks and pumping. However, through evaluation of flow records, we have developed, with staff, the following Diurnal

Curve, Figure III-A. This is modified from the curve used in the 2006 Water Master Plan.

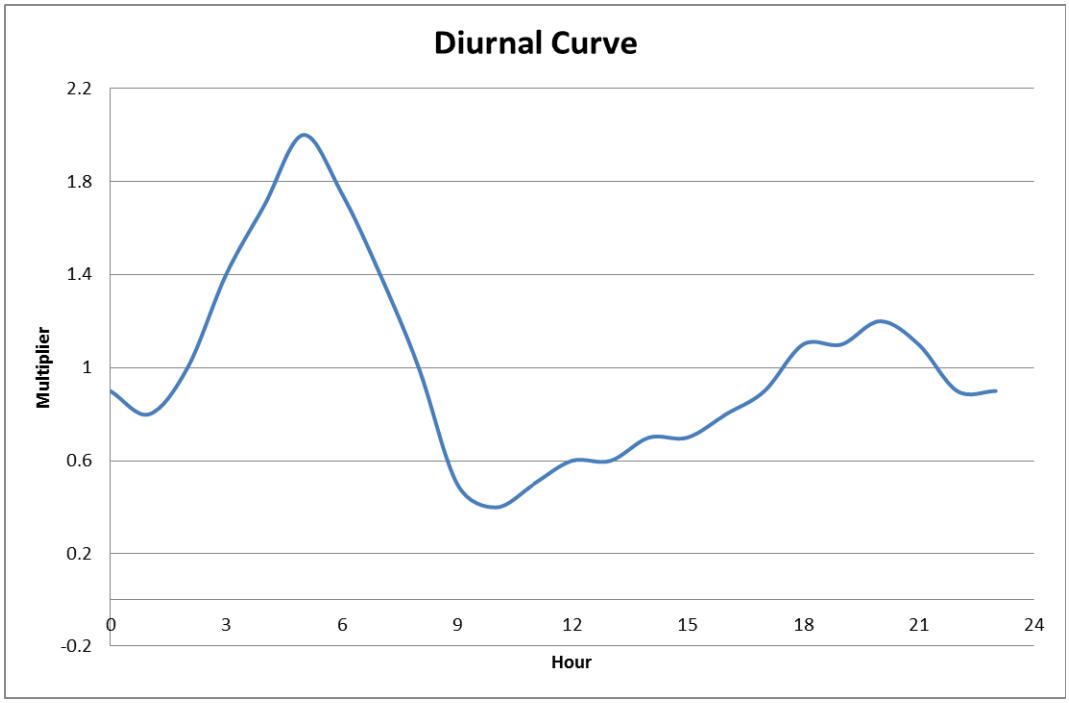


Figure III-A Diurnal Curve

The distribution system, while being supplied by the treatment plant and treated water storage tanks, must be able to supply peak hour demands. In addition, it is designed to provide fire protection flows (typically modeled during maximum day average hour demand rate).

The use of a diurnal curve helps the model predict the varying instantaneous water demands throughout the day. Typically, a system curve will show peak water usage in the morning and evening, with an hourly peak in the range of 2 times the maximum daily demand. The simulated diurnal curve establishes a peak hour multiplier of 2 times the maximum day demand.

With emphasis on water conservation and the use of automatic lawn irrigation systems – coupled with an increase in evening and night use for irrigation, the trend should be a lowering of the peak flow rate. Therefore, the curve can be used with reasonable confidence and conservatism.

Water Supply Summary

The Community Development Department provided constructed dwelling units for Erie by year. The data was used to calculate a maximum day demand per dwelling unit for comparison purposes and usage factors.

Table III-B
Demand by Dwelling Unit

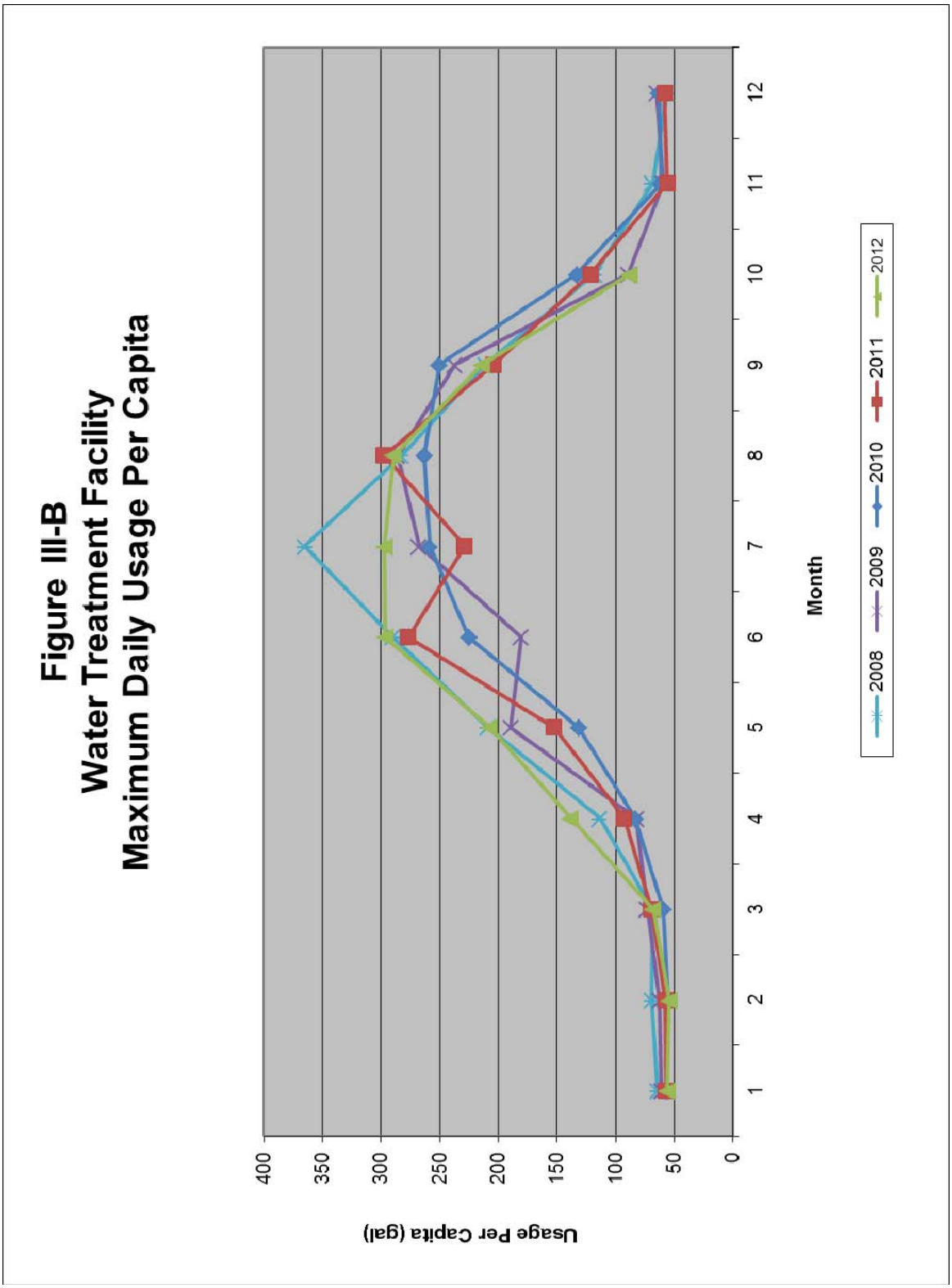
Year	Dwelling Units	Maximum Day Demand MG	Demand/ Dwelling Unit
2003	3,714	4.32	1,163
2004	4,178	4.64	1,111
2005	4,700	5.80	1,233
2006	5,288	6.39	1,208
2007	5,949	7.25	1,218
2008	6,362	7.25	1,140
2009	6,483	5.81	897
2010	6,630	6.25	943
2011	6,758	6.45	954
2012	6,887	7.16	1,040
Average			**1,090**

Information provided by Community Development Staff

However, with water conservation practices over the last five years, Erie saw a decrease in the average annual water usage to 995 gal/day/unit. When compared to similar local communities, 1,000 gal/day/unit is considered a reasonable value. An estimate based upon dwelling unit water use provides an ultimate residential buildout water demand of:

33,517 units x 1,000 gal/day/unit = 33.517 MGD

The Comprehensive Plan assigns a density of 2.79 persons per unit, calculating a maximum day demand rate of 358 gal/day/capita.



Note: Information provided by WTF staff.

When reviewing historical water billing, it was noted that there are a few large non-residential water users, such as commercial businesses, industrial, and park irrigation. As stated in the Comprehensive Plan, only 0.5% of the existing land use within Erie is commercial. However, almost 1,900 acres is assigned a land use of commercial/business in the Comprehensive Plan and the Land Use Plan. Therefore, water use projections must account for these future uses. Using water records and experience with similar systems, a water demand rate of 3,000 gallons/day/acre is recommended. Industrial water use records were also reviewed and compared to similar communities. A demand rate of 1,630 gallons/day/acre was used. A detailed review of treated water production records verified the above numbers. A breakdown of maximum day demand by customer classifications is presented in Table III-C following.

Table III-C
Projected Water Demand for Planning Area Boundary

Customer Classification	Dwelling Units/ Acres	Maximum Day Demand, gpd/unit	Maximum Day Demand, gpd
Residential	33,517	1,000	33,517,000
Commercial (includes park facilities)	2042	3,000	6,126,000
Industrial	306	1,630	498,000
		Estimated Maximum Day Demand	**39,145,000**

This projected buildout demand scenario does not include areas currently being served by Left Hand Water District or designated as Open Space or Agriculture. This ultimate demand projection assumes extensive future growth and an increase in demands of almost 5.4 times existing. All recommended improvements should be based upon development and staged with appropriate trigger points.

GENERAL

Erie's water supply comes from a variety of sources, with the majority from Colorado-Big Thompson shares, supplemented with Windy Gap and local ditch shares. The Raw water is delivered to the Water Treatment Facility and three raw water storage reservoirs. An evaluation of the raw water utility is not included in the scope of this report.

PRESSURE ZONES

The existing water system currently operates within 3 pressure zones, with the highest being hydraulically divided due to geographical constraints. The pressure zones and service ranges are included in Table IV-A below.

Table IV-A
Pressure Zone Characteristics

Zone	Existing AD Demand, (MGD)	Hydraulic Grade Line (ft.)	Service Elevations (ft.)	Service Pressures (psi)
2	0.65	5,175	4,950 – 5,070	97 – 45
3	1.54	5,313	5,070 – 5,210	105 – 45
4A	0.25	5,420	5,210 – 5,300	91 – 52
4B	0.50	5,420	5,210 – 5,300	91 - 52

WATER TREATMENT

There is one source of treated water for Erie, the Lynn R. Morgan Water Treatment Facility (WTF). There are, however, two emergency interconnects with neighboring City of Lafayette (supplying to Zone 4A hydraulic grade line) and Left Hand Water District (supplying to Zone 2 hydraulic grade line).

Lynn R. Morgan Water Treatment Facility

The Lynn R. Morgan Water Treatment Facility utilizes membrane microfiltration operating in two parallel treatment trains. The original train was constructed in

1999; the plant has since been expanded in 2001 and 2006. These expansions have provided rated capacity of 9.9 MGD for the pretreatment and filtration. Maximum production capacity for the plant is 12.15 MGD.

The original train consists of six US Filter Memcor pressurized tube membrane skids with a total capacity of 5.4 MGD. Three 1 MG granular activated carbon towers are used in the summer for taste and odor.

The second train was constructed in 2006 and incorporates submerged Memcor/US Filter microfiltration membranes. Three cells are in operation, with a total capacity of 6.75 MGD. The infrastructure is in place to add 3 additional membranes at 2.25 MGD increments for a maximum total of 6.75 MGD.

The 2006 improvements included addition of pretreatment facilities: rapid mix; four stage flocculation; and clarification using plate settlers. Aluminum Sulfate is added to the pretreatment influent as a flocculating agent. Powdered activated carbon is added seasonally for taste and odor control.

Water is then disinfected with sodium hypochlorite with contact time being provided in the clearwells. Chlorine, turbidity, temperature, pH and fluoride analyzers monitor the water prior to distribution.

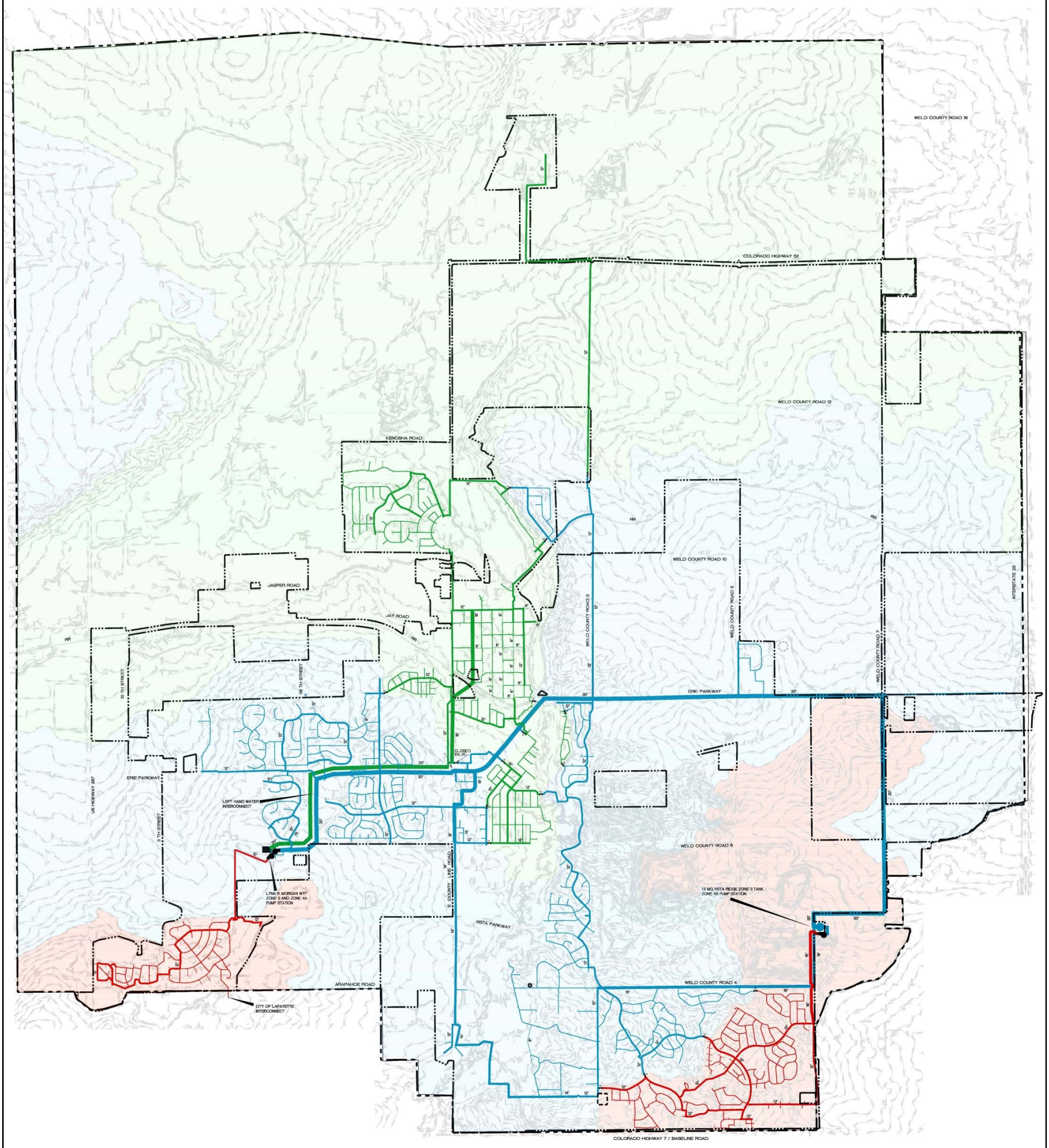
The original six Memcor skids are currently being replaced with oxidant resistant membranes.

TRANSMISSION/DISTRIBUTION SYSTEM

Erie owns and maintains approximately 120 miles of treated water mains. Pipe materials are predominantly polyvinyl chloride (PVC), with few sections of asbestos cement (AC) and mortar lined welded steel mains. Many of the waterlines have been replaced or constructed since 1995, making the system reasonably new and in good condition. Erie plans to continue using PVC pipe for new installations. The existing waterlines are shown on Figure IV-1.

STORAGE

Currently, storage is provided at the WTF 2.2 MG clearwell and an above ground 1.5 million gallon concrete storage tank for Zone 3 on the east edge of town. The WTF clearwell provides gravity service to Pressure Zone 2 and pumped



TOWN OF ERIE
EXISTING WATER SYSTEM

Figure IV-A
Existing Water System

TOWN OF ERIE
1874

service to Zones 3 and 4A, while the 1.5 MG tank provides gravity service to Pressure Zone 3 and the Zone 4B pumps.

Table IV-B
Existing Water Storage Facilities

Tank Name	Total Capacity (Gallons)	Year Constructed	Overflow Elevation (ft.)	Tank Dimensions (ft.)
WTF Old Clearwell	500,000	1999	5,193	113'x43'
WTF New Clearwell	1,700,000	2006	5,193	137'x111'
WTF Wetwell	300,000	2006	5,193	49'x37'
Zone 3 Vista Ridge Tank	1,500,000	1999	5,313	110' dia.
Total	**4.0 MG**			

PUMP STATIONS

Based on the Water Treatment Facility elevation, it is necessary to pump to Zones 3, 4A and 4B. Zone 3 has a 1.5 MG storage tank for peak hour demand ballasting; however, Zones 4A and 4B are solely demand fed from the two pump stations. This requires that pumping for those two zones be sized to provide not only peak hour flows, but also fire flows. Table IV-C provides a summary of the pump details.

The Zone 3/4A pump station is located at the WTF and is fed from the 300,000 gallon wetwell. The Zone 4A pumps are fed by the Zone 3 pumps discharge header. There are three Zone 3 pumps and six Zone 4A pumps.

The Zone 4B pump station is located next to the Zone 3 tank. There are four pumps of varying flow rates to meet daily demands and fire flows.

Table IV-C
Pump Station Summary

Name	Pressure Zone	Installation Year	Pump				Pumping Capacity	
			No.	Manufacturer	Rated Capacity	Rated Head	Total	Firm
					(gpm)	(ft)	(mgd)	(mgd)
Zone 3/4A Pump Station	4A	1999	6	GS Aurora	200	120	13.5	8.3
	4A	1999	5	GS Aurora	200	120		
	4A	1999	4	GS Aurora	900	120		
	4A	1999	3	GS Aurora	900	120		
	4A	1999	2	GS Aurora	3,600	225		
	4A	1999	1	GS Aurora	3,600	225		
	3	1999	1	Floway Weir	3,700	175	17.5	10.7
	3	1999	2	Floway Weir	3,700	175		
	3	2005	3	Floway Weir	4,750	200		
Zone 4B Pump Station	4B	2013	1	Goulds ITT	600	150	9.3	6.0
	4B	2001	2	Goulds ITT	1,200	147		
	4B	2001	3	Goulds ITT	2,350	150		
	4B	2001	4	Goulds ITT	2,350	150		

PRESSURE REDUCING VALVES

The system includes 16 pressure reducing valves between the zones. The two valves located in the Grandview subdivision are the sole water source to that Zone 2 street. The other valves should be operated so as to only open during times of high stress, such as peak hour and fire flow demands.

The following table provides physical data for each PRV along with hydraulic grade line settings for each valve. The suggested settings have accounted for Primary and Secondary settings within the zones. They also have allowed for the bypass valve to open first, with the larger valve opening with extreme pressure drops as seen in fire situations.

Table IV-D
PRV Summary

No.	Location	Valve Elevation[1] (ft)	Recommended Operating HGL Setting (ft)	PRV Sizes Main/Bypass (in)	Recommended Operating Pressure Setting (psi) Main/Bypass	Type	Upstream Pressure measured on 2-28-13 (psi)	Downstream Pressure measured on 2-28-13 (psi)
AP[2]	Bonanza Drive and Road 3	5,188	No Service					
EC1	Erie Parkway and Powers Street	5,060	5,168	8/4	44/47	Cla-Val	120	65
EC2	Austin Avenue and Mason Street	5,059	5,159	8/4	41/44	Cla-Val	80	35
EC3	892 Jarvis Street	5,043	5,159	8/4	47/50	Cla-Val	125	62
EC4	Bonnell Avenue and Mason Court	5,066	5,168	8/4	41/44	Cla-Val	120	55
EC5	Briggs Street and Erie Parkway	5,034	5,159	8/4	51/54	Cla-Val	105	51
EC6	Erie Parkway and Road 8	5,028	5,159	8/4	54/57	OCV	100	60
GV-N	118 Montgomery Circle	5,040	5,175	8/4	55/58	Cla-Val	125	59
GV-S	450 Montgomery Circle	5,050	5,164	8/4	46/49	Cla-Val	120	55
CS	Meller and Telleen Avenue	5,078	5,164	8/4	34/37	Cla-Val	101	50
NR-S	1089 North View Drive	5,057	5,166	8/4	44/47	OCV	121	55
NR-N	27 Baker Lane	5,046	5,168	6/4	50/53	Cla-Val	125	68
VR1	Sunset Drive and Bonanza Drive	5,188	5,295	6/2	43/46	Cla-Val	125	60
VR2	Sunset Drive and Vista Parkway	5,201	5,295	6/2	38/41	Cla-Val	100	49
VR3	Mountain View Boulevard and Primrose Lane	5,165	5,295	6/2	53/56	Cla-Val	130	60
VR4	2048 Alpine Drive	5,183	5,295	6/4	46/49	Cla-Val	125	50
MH	County Road 10½ and Road 3	5,046	5,175	8/4	53/56	Cla-Val	100	60

(1) Elevations were estimated from Town of Erie topographic information, 2-foot contours.
(2) PRV-AP was disconnected from the system in September 2006.

SECTION V
WATER SYSTEM MASTER PLAN

GENERAL

A municipal water system has many components – from service lines/meters, fire hydrants, water transmission pipes, storage tanks, to water treatment. For any one component to function effectively, the others must also be operable. To provide good customer service, at the lowest long-term cost, all of these components must be integrated into a balanced system.

This Water System Master Plan is intended to represent an optimum system design. It considers the functional value of Erie's investment in existing water facilities – and provides overview guidance for extension of service for projected ultimate development. Water facilities, particularly pipelines, should be sized for projected ultimate development for greatest long term economy (since oversizing during initial construction involves relatively low incremental cost, and future paralleling would be extremely expensive).

The progression of capital improvement projects should start with the Master Plan. However, Erie should conduct a Predesign Phase before proceeding to final design and construction. The Master Plan is schematic in nature; and revised development, street layouts, etc. may result in facility designs that are somewhat different from those illustrated on the Master Plan – but which still effectively accomplish the intended purpose.

DESIGN CRITERIA

Water usage rates vary significantly seasonally, as well as throughout the day. Treated water supply facilities (treatment plants and pump stations) are typically designed to provide maximum day water demands; i.e., the maximum quantity of water used in any 24 hour period. This generally occurs on hot, dry summer days. Peak hour, the incremental portion of the maximum rate of water used in any 60 minute period (but expressed as a daily rate) is most economically provided from system storage. The maximum day and peak hour demands can vary considerably, from year to year, depending on many factors such as temperature, rainfall, construction and industrial activities, etc.

The following criteria were used for development of this Water System Master Plan:

- Projected ultimate maximum day demand is approximately 39.1 MGD; estimated peak hour demand is 78.1 MGD.

- Needed water treatment capacity and pumping should be based on Maximum Day demands. (Except as noted for Zones 4A and 4B, where pumping must meet peak hour and fire flow demands.)

- Size regional transmission mains to meet Peak Hour demands.

- Pressure zone boundaries, per Erie practices, established to provide a minimum pressure of not less than 40 psi.

- Typical distribution piping design standards are:
    - Generally, the minimum pipe size should be 8 inch.
    - Principle streets and commercial areas should be 12-inch minimum pipe size.
    - The system should be "looped" wherever possible, to prevent dead ends.

- Assure that adequate fire flows will be available for all regions. Recommended target ranges used for sizing water facilities for fire flows, typical in the industry, are:
    - Minimum 1,500 gpm for residential/multi-family.
    - 3,000 to 3,500 gpm for commercial, very high density.
    - Possible intermediate level (~2,500 gpm), depending on zoning.

Treated Water Supply

Existing water treatment capacity, as described in Section IV, has a rated capacity of 9.9 MGD for pretreatment and filtration. The current maximum day demand of approximately 7.25 MGD represents approximately 73% of the rated treated water capacity.

Additional planned capacity is available through:

- Expansion of Pretreatment to compliment downstream filtration capacity.
- Expansion of submerged filters in 2.25 MGD increments for a maximum total of 6.75 MGD. (Infrastructure already in place.)

- Additional treatment for Buildout demands to be staged as development progresses.

The total planned (future) treated water supply at the present location is 18.9 MGD. As previously discussed, the 2025 development plan has a proposed water demand of approximately 30 MGD. This is an optimistic number assuming very aggressive growth within the next 12 years. The next phased expansion should be scheduled for when residential units reach a count of 9,500 – or maximum day demands reach 9.5 MGD. When construction of new housing is approaching a maximum day demand of 15 MGD or 15,000 Dwelling Units, Erie should start the process of planning to either expand the existing water treatment plant or look for an alternate site to increase treatment capacity.

Storage

Treated water storage is an essential element of a water system. The primary functions served by distribution storage are:

- Operational storage for:
  1. Equalizing the fluctuating demands on the system (meeting peak demands), resulting in smaller treatment plants, pump stations and transmission mains.
  2. Minimizing pressure fluctuations within the distribution system.
  3. Providing overall system reliability.

- Providing reserve for fire fighting.

- Emergency storage.

Operational Storage. Storage volume necessary to meet hourly fluctuations in water demands is generally the volume of water above the maximum day use on the diurnal curve. The selected curve calculates to approximately 16.5% of the total demand; 20% operational storage was selected as a conservative percentage. The 2025 projected maximum day demand is approximately 26.6 MGD, 20% of which is 5.3 MG. Ultimate buildout maximum day demand is 39.15 MGD, with a 20% operational volume of 7.8 MG.

Fire Fighting Requirements. Fire protection storage volume is based on the fire flow rate and duration, as established by the Insurance Services Office (ISO),

Uniform Fire Code and other regulatory bodies. The required flows depend on the size, type of construction, occupancy, and exposure of buildings within and surrounding a block or building group complex. The required duration for a fire flow of 2,500 gpm or less is 2 hours and 3 hours for a fire flow of 3,500 gpm, resulting in a volume of 630,000 gallons. Total design fire protection flow volume should be reserved as a portion of the total water storage. For design purposes, a fire is considered to occur on a day of maximum water usage. Acceptable fire flows should be realized while maintaining a 20 PSI minimum residual pressure.

Emergency Reserve. The amount of storage allocated to emergency reserve is based on the potential for interruption of supply by failure of the supply works (e.g. transmission line breaks, pump failure, or power failure) and the time needed for repairs. It is also a function of the reliability of the treated water supply facilities, including the number and types of sources. For Erie's system, an emergency storage volume of approximately 8 hours on a day of average demand has been used, for a system wide volume of 8.6 MG.

Location. In general, a water distribution system is better served if the supply (treatment plants and pump stations) and storage tanks are located in opposite areas of the distribution system, as opposed to one central location. The location of storage in the system has significant impacts on hydraulics, operating costs, and reliability. The location of both the treated water supply and storage on the same side of the demand center (as is the case for Zone 2) is the least desirable option. Also, storage should be as close to the demand center as practical to achieve maximum benefits at minimum cost. It has been well documented (and can be readily verified hydraulically) that location of storage, or supply, on the opposite sides of the demand center is optimum. Advantages include:

- This produces two relatively independent "sources" of feed into the system so that high demands can be supplied from multiple mains within the system.

- By having more independent mains supplying flow to meet a particular demand, the required flow through any given pipe is lower, and the pressure losses to supply the demand are also lower. This results in a stronger overall system and allows the use of smaller size distribution pipelines. This is especially relevant for an existing system like Erie's.
- A lower tank elevation is necessary to achieve the same pressure.

- Greater redundancy/reliability is provided in the event of a main break.

Table V-A
Water Storage Needs by Zone

Zone	Average Day Demand (MGD)	Maximum Day Demand (MGD)	Operational Storage (MG)	Fire Fighting (MG)	Reserve Storage (MG)	Total (MG)
Zone 2						
2025	2.69	7.03	1.4	0.63	0.9	2.9
Buildout	4.29	11.19	2.2	0.63	1.4	4.3
Zone 3						
2025	6.44	16.80	3.4	0.63	2.1	6.1
Buildout	8.88	23.19	4.6	0.63	2.9	8.2
Zone 4A						
2025	0.26	0.68	0.1	0.63	0.1	0.2
Buildout	0.26	0.68	0.1	0.63	0.1	0.2
Zone 4B						
2025	0.80	2.07	0.4	0.63	0.3	0.7
Buildout	1.57	4.09	0.8	0.63	0.5	1.3
Total						
2025	10.19	26.58	5.3	0.63	3.4	10.0
Buildout	15.00	39.15	7.8	0.63	5.0	14.0

Since Zones 4A and 4B do not have a gravity storage tank, the volumes for these zones must be added to the calculations for Zones 2 and 3. Zone 4A will be included with Zone 2, and Zone 4B included with Zone 3. However, gravity storage for 4B is recommended later in the report.

Table V-B
Total Water Storage

Zone	Current Available Storage (MG)	2025 – Storage Required (MG)	Buildout – Storage Required (MG)
2	2.2	3.2	4.5
3	1.8	6.8	9.5
Total	**4.0**	**10.0**	**14.0**

As determined above, significantly more storage will be required as buildout demands are reached.

HYDRAULIC MODELING

Erie provided a WaterCAD model of the existing water system created by Black and Veatch as part of the 2006 Water and Wastewater Master Plan project. Computer modeling tasks began with an update of the existing distribution system by adding waterline changes since 2006 using WaterGEMS v8.1. The assigned demands were also adjusted to reflect water demand increases.

Calibration

To calibrate the existing system model, Erie staff assisted in fire hydrant flow tests throughout the system. A total of 10 tests were run, with at least 2 hydrants being opened per zone. Pressure gauges were read at the open hydrant and a nearby hydrant for operating and residual pressures. A pitot tube flow meter was used to collect flow rates. Live information from the WTF in regards to tank levels, pump rates and pressures was collected for each test.

The physical information for each test was used to perform a calibration of the network model with the Calibration feature of WaterGEMS. The system calibrated very well and only experienced one anomaly that was corrected easily.

Using the calibrated existing system model, planned developments were added first. The proposed Flatiron Meadows, Daybreak, Dearmin, Morgan Hill, Rex Ranch, Section 4, Erie Corporation, and Erie Farms subdivisions were added with expected water use loadings. Next, infill demands within Erie limits were added. Finally, proposed demands based upon the Comprehensive Plan and Land Use Map were included.

The water distribution system's performance was evaluated for the following simulations (refer to Buildout Water Model Node Map bound at the back of this report):

1. Existing pipelines and demands.

2. Existing demands with high priority recommended improvements.

3. Proposed system at buildout, with buildout demands and recommended improvements.

4. Maximum day demands with fire flows imposed.

Demands on the system were estimated for each simulation based on maximum day, peak hour, and maximum day at buildout conditions. The developed diurnal curve for peaking was used for simulating peak hour stresses on the system. These demands, based on the customer use data, were assigned to the overall system at individual pipe junctions (nodes).

Modeling simulations were completed for extended periods (EPS) to evaluate the existing system response over a three day period. The EPS modeling stressed the system and identified problems moving water to the northeast.

Model output data for maximum day demand, plus a fire occurring near Section 4, are included in the Appendix. The existing and proposed pipe networks, shown on the Buildout Water Model Node Map are bound at the back of this report.

Water Age Analysis

As part of the EPA and CDPHE Stage 2 Disinfection Byproduct Rule (DBR), the testing required subsequent to Stage 1, the age of water is monitored to help limit the formation of Trihalomethanes (TTHM) and haloacetic acids (HAA_5). For Erie, it was determined that the late spring months are peak for the formation of DBPs. The models were run using average day and maximum day demands to compare and determine the locations within the system with the highest age.

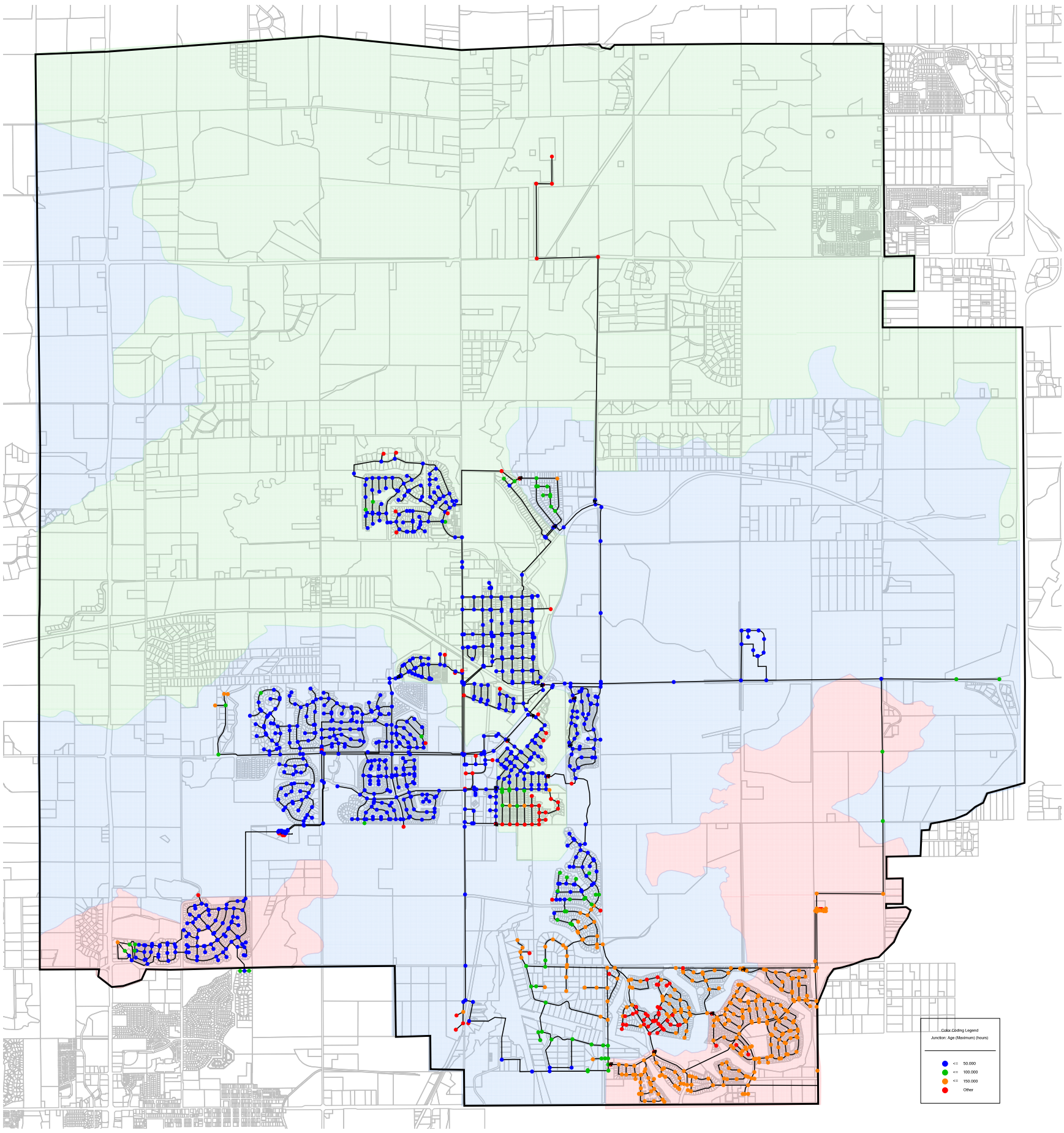
The Initial Distribution System Evaluation (IDSE) requires that extended period simulations be run for selecting the sampling sites with the highest age. Simulations of 120 hours (5 days) were run on the existing and proposed models and the results are shown on the following maps.

Existing System. The existing system model showed that the areas of high water age are found at the edges of zones and dead-end lines, specifically the south end of Erie Commons and Vista Ridge. Erie has been working with the PRV operations to periodically flush Vista Ridge to keep the water moving.

TOWN OF ERIE

EXISTING WATER SYSTEM

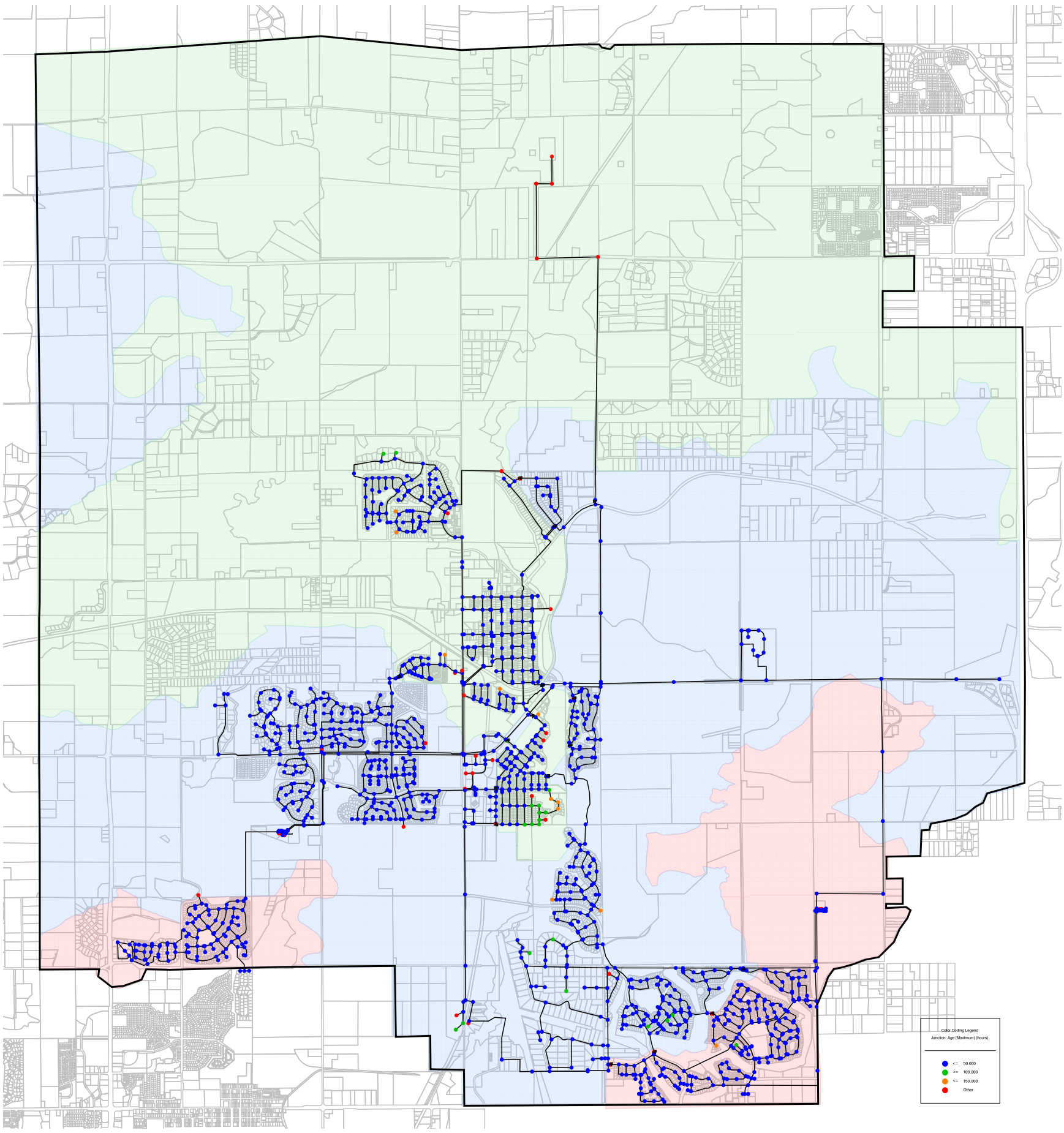
AVERAGE DAY WATER AGE - 120 HOURS



TOWN OF ERIE

EXISTING WATER SYSTEM

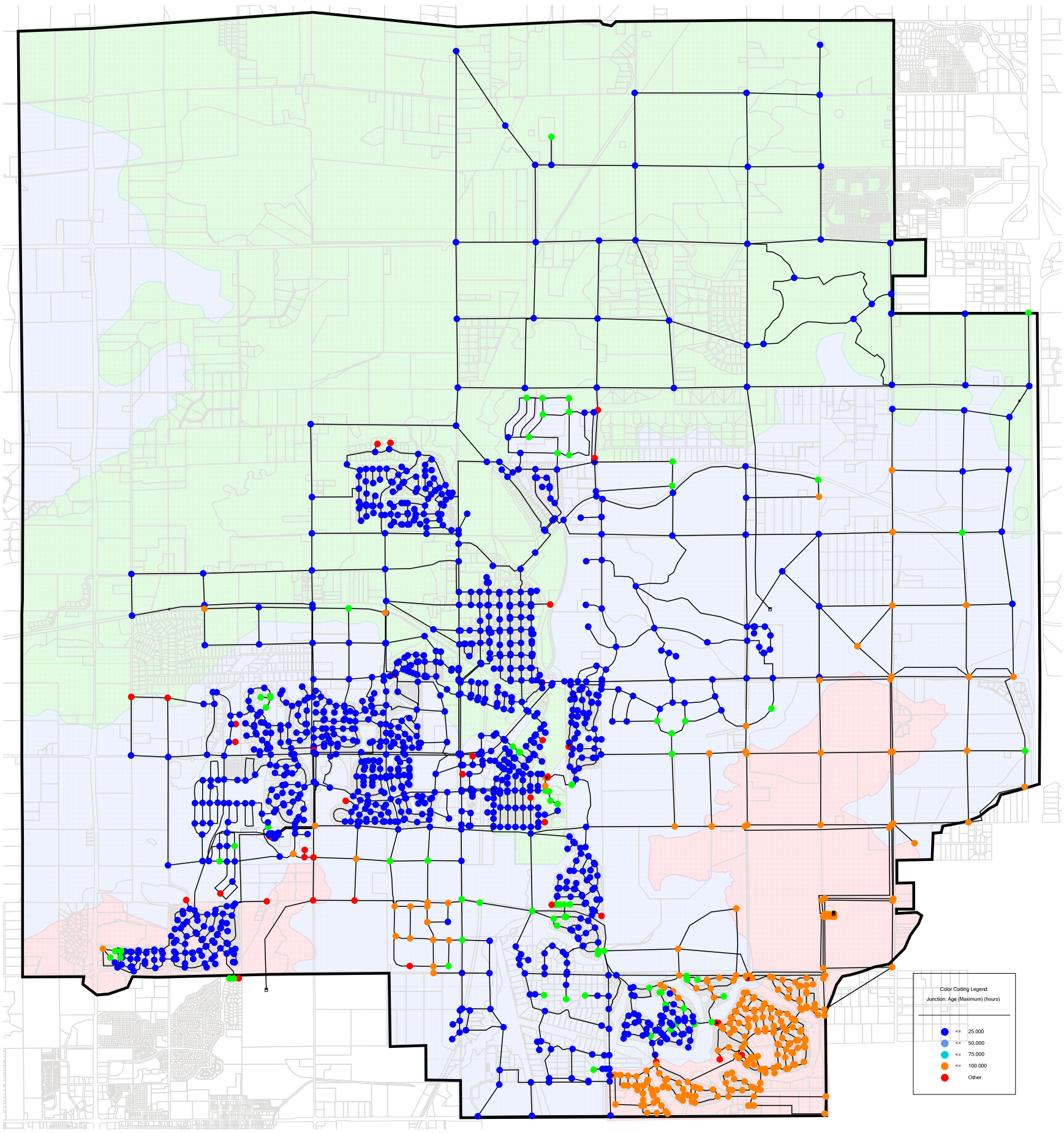
MAXIMUM DAY WATER AGE - 120 HOURS



TOWN OF ERIE

PROPOSED WATER SYSTEM

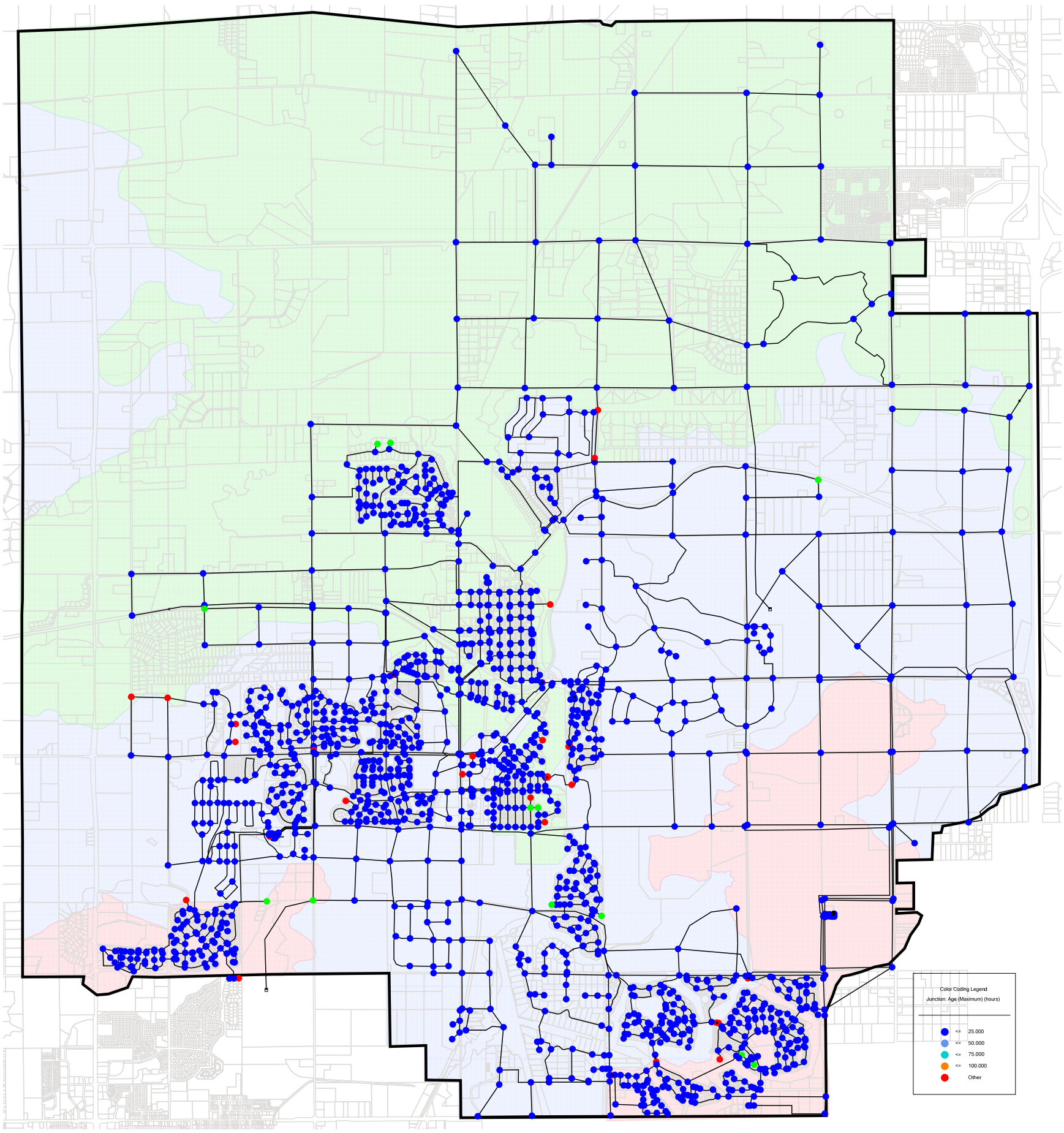
AVERAGE DAY WATER AGE - 120 HOURS



TOWN OF ERIE

PROPOSED WATER SYSTEM

MAXIMUM DAY WATER AGE - 120 HOURS



Additionally, hydrant flushing should be performed periodically near the shopping complex in Zone 4A to assist the dead end zone.

Proposed System. The age for the proposed system was found to be similar to the existing system, with one exception. The proposed zone connection to Erie Commons will help decrease the water age within the neighborhood. The proposed developments do not show water age issues since only main lines are modeled. Future developments will need to plan for adequate supply and looping as the waterline layouts are developed. As Zone 4B growth extends north, strategic PRVs will need to be placed so as to allow future flushing.

RECOMMENDED IMPROVEMENTS

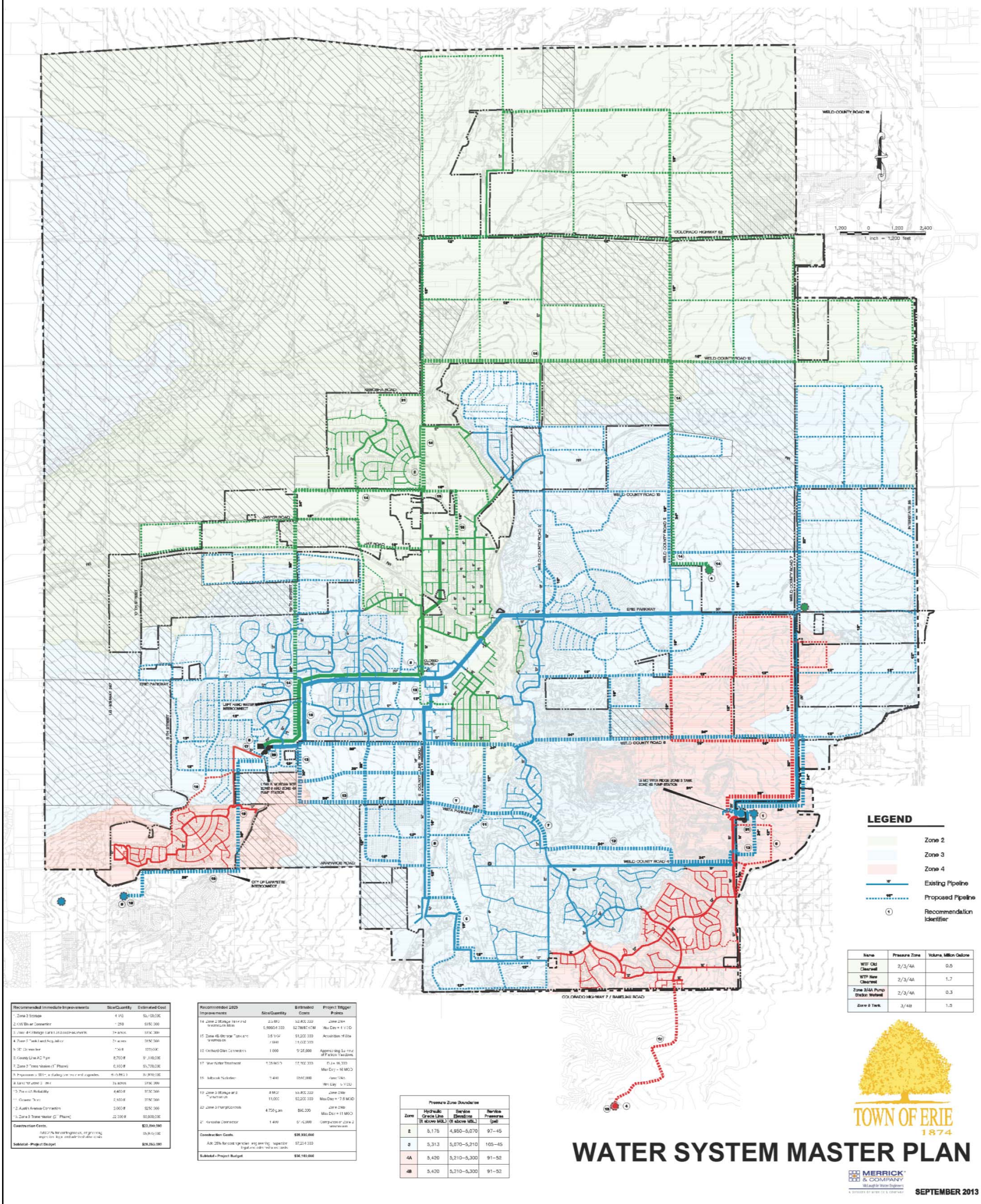
The Water System Master Plan is illustrated on the enclosed Drawing. Numbers for recommended improvements on the drawing correlate to the numbering within the following tables.

The recommended improvements have been broken into three categories: immediate needs (to be completed within the next five years), improvements to accommodate growth prior to 2025 and ultimate buildout recommendations.

Immediate Recommendations

Under this scenario, system improvements are needed to resolve existing system deficiencies and provide reliable service assuming no development outside of the Town boundary. However, good planning dictates that any improvements should be designed to integrate with possible future developments in an optimum manner.

Immediate Recommendations are prioritized and should be scheduled for completion within the next five years.



Recommended Immediate Improvements	Size/Quantity	Estimated Cost
1. Zone 3 Storage	4 MG	$5,700,000
2. Old Elder Connector	1,250	$150,000
3. Zone 4A Storage Tank Land and Improvements	3+ acres	$150,000
4. Zone 3 Tank Land Acquisition	3+ acres	$150,000
5. SE Connector	1,100 ft	$220,000
6. County Line AC Pipe	8,700 ft	$1,110,000
7. Zone 3 Transmission (1st Phase)	6,100 ft	$3,720,000
8. Improvements WTP, including pre-treatment upgrades	45-55 MGD	$5,000,000
9. Land for Zone 3 WTP	3+ acres	$150,000
10. Tank 45 Reliability	4,400 ft	$132,000
11. Colorado Tank	5,100 ft	$150,000
12. Austin Avenue Connection	2,000 ft	$250,000
13. Zone 3 Transmission (2nd Phase)	22,300 ft	$3,000,000
Construction Costs		$23,800,000
Add 25% for contingencies, engineering, inspection, legal, and administrative costs		$5,950,000
Subtotal - Project Budget		$29,750,000

Recommended 2025 Improvements	Size/Quantity	Estimated Costs	Project Trigger Points
14. Zone 2 Storage Tank and Transmission Main	2.0 MG / 5,900 LF	$2,800,000 / $2,780,000	Zone 2/4A Max Day = 1.1 MGD
15. Zone 4B Storage Tank and Transmission	3.5 MG / 1,000 LF	$1,200,000 / $1,000,000	Acquisition Date
16. Orchard Glen Connection	1,000	$125,000	Approaching 3,000 residential service connections
17. New Water Treatment	5.25 MGD	$7,500,000	Date TBD Max Day = 16 MGD
18. Milbrook Reliability	1,400	$350,000	Date TBD Max Day = 6 MGD
19. Zone 3 Storage and Transmission	4 MG / 11,000	$3,800,000 / $2,200,000	Zone 2/4a Max Day = 7.5 MGD
20. Zone 3 Pump Upgrade	4,750 gpm	$80,000	Zone 2/4a Max Day = 11 MGD
21. Arapahoe Connector	1,400	$140,000	Completion of Zone 2 transmission
Construction Costs		$20,935,000	
Add 25% for cost contingencies, engineering, inspection, legal, and administrative costs		$5,234,000	
Subtotal - Project Budget		$26,169,000	

Pressure Zone Boundaries			
Zone	Hydraulic Grade Line (ft above MSL)	Service Elevations (ft above MSL)	Service Pressures (psi)
2	5,175	4,950–5,070	97–45
3	5,313	5,070–5,210	105–45
4A	5,420	5,210–5,300	91–52
4B	5,420	5,210–5,300	91–52

Name	Pressure Zone	Volume, Million Gallons
WTF Old Clearwell	2/3/4A	0.5
WTF New Clearwell	2/3/4A	1.7
Zone 3/4A Pump Station Wetwell	2/3/4A	0.3
Zone 3 Tank	3/4B	1.5

Figure V-A

Water System Master Plan

Table V-C
Immediate Recommendations

Item	Description	Size	Length (ft)
1. Zone 3 Storage	Zone 3 Storage Tank at Vista Ridge Tank site.	4 MG	
2. CW Bixler Connection	Connect 12-inch distribution at both ends of CW Bixler Blvd.	12”	1,250
3. Zone 4B Storage Tank Land and Easements	Complete negotiations for, and a tank siting study to evaluate possible locations for a Zone 4B elevated storage tank.	0.5 MG	N/A
4. Zone 2 Storage Tank Land and Easements	Acquire land at the appropriate elevation for an additional Zone 2 storage tank. Include any easements for transmission main.	N/A	N/A
5. 20” Connection	Complete connection of new 20” to existing 18” in Erie Parkway.	20”	100
6. County Line AC Pipe	Replace aging AC pipe in County Line Rd.	16”	8,000
7. Zone 3 Transmission (1st Phase)	Zone 3 transmission, 24” pipeline in Vista Parkway between County Line Road and CR 3.	24”	6,100
8. Expansion of WTF	Equip existing water plant with additional microfiltration modules, upgrade pretreatment to full capacity. Begin investigating expansion options or alternative site for additional treatment capacity.	N/A	N/A
9. Land for Zone 3 Tank	Acquire land and easements for 4 MG Zone 3 Tank and Transmission Main	N/A	N/A
10. Zone 4A/4B Reliability	Construct secondary Zone 4A transmission line. (Zone 4B reliability achieved if tank determined feasible.)	12”	4,400
11. Cessna Drive Looping	Connect dead end in Cessna Dr. with line extension from Parkdale Circle.	12”	1,000
12. Austin Ave. Connection	Connect Zone 2 lines in County Line Road from Erie Parkway to Austin Ave./Mason St.	12”	2,000
13. Zone 3 Transmission (2nd Phase)	Completion of Zone 3 transmission main. (36” from plant to 119th Street and 24” for the reminder of the alignment.)	36”/24”	22,000

Note: Item number corresponds to numbering on Water System Master Plan Drawing.

The Master Plan drawing shows two locations for future Zone 3 tanks. The two recommended tank sites are located on opposite sides of the system; modeling showed improved system hydraulics over locating all storage at the existing site.

Item 6, Zone 4A reliability was a concern raised by staff. Both of the high zones are solely fed by pumping with no gravity storage. Each is also fed by a long, single pipeline from the pump stations. These are not ideal operating standards. The Zone 4A connection was included in the Immediate Recommendations so that it can be incorporated into the Flatiron Meadows subdivision construction.

In an emergency, Zone 4A can be supplemented by the Lafayette Interconnect. Zone 4B does not have an emergency option. Ideally a location would be identified for gravity storage; however, the topography would require an elevated tank outside of Erie limits. The elevation needed for an elevated tank site is located south of Baseline Road, within Broomfield limits. It is recommended that Erie begin a site acquisition study for elevated storage.

2025 Recommendations

Erie is expected to grow to a maximum day demand of approximately 27 MGD by 2025. If these predictions hold true, Erie will be looking at extensive treatment, storage and transmission/distribution requirements.

Note that the sizing of water mains shown on the Master Plan drawing within future developments is conceptual. The developer must provide an equivalent distribution capacity within their network. For areas where development plans haven't been completed, the location is also conceptual.

The following table lists the recommended system improvements that will be needed with development. Many of the improvements can be staged with growth and be included as part of the proposed subdivision's system.

Table V-D
2025 Recommendations

Name	Description	Size	Length (ft)
14. Zone 2 Storage Tank and Transmission	2.5 MG storage tank for Zone 2. 9,800 lf of 30” and 34,000 lf of 24” Zone 2 transmission main from the plant to tank.	2.5 MG 30”/24”	9,800/ 34,000
15. Zone 4B Storage Tank and Transmission	Elevated 0.5 MG storage tank with transmission main.	0.5 MG 16”	7,000
16. Orchard Glen Connection	Connect 12” in Austin Ave. to 12” in Meadow Sweet Farm Parkway.	12”	1,000
17. New Water Treatment	Expand WTF at current site or construct new WTF in ±5.35 MGD increments.	N/A	N/A
18. Holbrook Waterline	Connect waterline in Holbrook St. from Evans St. to WCR 10/County Line.	16”	3,400
19. Zone 3 Storage and Transmission	Additional 4 MG water storage tank and 20” transmission line from WTF to tank.	20”	11,000
20. Zone 3 Pump	Additional 4,750 gpm pumping capacity for Zone 3.	N/A	N/A
21. Kenosha Connection	Zone 2 distribution line in County Line from WCR 10½ to Kenosha Rd.	12”	1,400

Note: Item number corresponds to numbering on Master Plan Drawing.

Buildout Recommendations

Buildout maximum day demand is projected to be approximately 40 MGD. Improvements will be staged with development and have not been given a timeline or budgeting numbers. Predesign studies should be completed for each item as appropriate with growth.

Table V-E
Buildout Recommendations

Name	Description	Diameter (inches)	Length (ft)
Zone 3 Transmission	Transmission line in WCR 6 from County Line Road to tanks.	30/24	24,000
Water Treatment Capacity	Additional water treatment facilities in three 5.35 MGD increments.	N/A	N/A
Zone 3 Pumping	Additional 3,700 gpm pump. Location to be determined by additional treatment site.	N/A	N/A
Zone 4B Pumping	Additional 2,800 gpm pumping capacity. (Unless gravity storage is constructed.) Possible new pump station.	N/A	N/A
Old Town Replacements	As waterlines are repaired or replaced in Old Town, replace all 6” with minimum 8”.	N/A	N/A

PRELIMINARY COST ESTIMATES

An opinion of probable cost for the recommended water system improvements, at a master planning level, is presented following. The improvements have been segregated between those needed immediately for existing or imminent development and those needed prior to 2025. Budget amounts have not been assigned to improvements needed beyond 2025. Preliminary design reviews can include estimated budgets as the need for improvements approaches. Land acquisition costs have not been included for improvements (except for tank sites) since most of them are within Right-of-Ways or are shown in approximate locations for Master Planning purposes.

Table V-F
Immediate Improvements

Recommended Immediate Improvements	Size/Quantity	Estimated Cost
1. Zone 3 Storage	4 MG	$3,400,000
2. CW Bixler Connection	1,250	$150,000
3. Zone 4B Storage Tank Land and Easements	3± acres	$150,000
4. Zone 2 Tank Land Acquisition	3± acres	$150,000
5. 20” Connection	100 lf	$30,000
6. County Line AC Pipe	8,700 lf	$1,110,000
7. Zone 3 Transmission (1st Phase)	6,100 lf	$3,750,000
8. Expansion of WTF, including pretreatment upgrades	6.75 MGD	$7,920,000
9. Land for Zone 3 Tank	3± acres	$150,000
10. Zone 4A Reliability	4,400 lf	$530,000
11. Cessna Drive	2,100 lf	$250,000
12. Austin Avenue Connection	2,000 lf	$250,000
13. Zone 3 Transmission (2nd Phase)	22,000 lf	$6,050,000
Construction Costs.		**$23,890,000**
Add 25% for contingencies, engineering, inspection, legal and administrative costs.		$5,973,000
Subtotal - Project Budget		**$29,863,000**

Estimated costs for 2025 Recommendations presented correspond with the item numbers for the associated improvement above.

Table V-G
2025 Improvements

Recommended 2025 Improvements	Size/Quantity	Estimated Costs	Project Trigger Points
14. Zone 2 Storage Tank and Transmission Main	2.5 MG 9,800/34,000	$2,400,000 $2.7M/$7.65M	Zone 2/4A Max Day = 4 MGD
15. Zone 4B Storage Tank and Transmission	0.5 MG/ 7,000	$1,200,000 $1,000,000	Acquisition of Site
16. Orchard Glen Connection	1,000	$125,000	Approaching Buildout of Flatiron Meadows
17. New Water Treatment	5.35 MGD	$7,500,000	DU = 16,000 Max Day = 16 MGD
18. Holbrook Waterline	3,400	$510,000	Zone 2/4A Max Day = 5 MGD
19. Zone 3 Storage and Transmission	4 MG/ 11,000	$3,400,000 $2,200,000	Zone 3/4B Max Day = 17.5 MGD
20. Zone 3 Pump/Controls	4,750 gpm	$80,000	Zone 3/4B Max Day = 11 MGD
21. Kenosha Connection	1,400	$170,000	Completion of Zone 2 Transmission
Construction Costs.		**$28,935,000**	
Add 25% for contingencies, engineering, inspection, legal and administrative costs.		$7,234,000	
Subtotal - Project Budget		**$36,169,000**	

SECTION VI
CONCLUSIONS/RECOMMENDATIONS

Based on evaluation of the existing system and future growth projections, together with the results of the computer network analyses, the following conclusions and recommendations regarding Master Planning for Erie's water system were reached. Long range planning is a continuing process since development never occurs at the exact location, pace, or densities predicted. Comprehensive preliminary planning/predesign should, therefore, take place before significant investments in new wholesale facilities.

Construction of future waterline and facilities, located schematically on the Master Plan Drawing, should be undertaken on a schedule as dictated by development. The utilities have been laid out to accommodate probable roadway corridors, and to utilize existing facilities where applicable, but should be considered schematic. The sizes noted on the Drawing for future mains represent equivalent sizing and are to be considered approximate. Actual development will govern final routing and required sizing and should be reviewed during the predesign process.

Extensive expansion is planned between now and 2025. Erie will have to invest in treatment, storage and transmission/distribution upgrades to meet the demands of the proposed development. The upcoming rate study can use the estimated budgets for the Immediate and 2025 Improvements to establish appropriate fees.

It is noted that the proposed improvements are integral elements of an overall/buildout system. As each development is added, it is important that Erie not only review the current needs to ensure reliable service, but also proposed utilities for ultimate system needs. The developer may be required, with rebate agreements, to install additional waterline extensions or oversizing as needed to provide dependable service.

Following are priority improvement recommendations. The numbering for these items corresponds with the Master Plan drawing.

1. Multiple subdivisions have submitted plans for review within Zone 3, proposing construction within the 2025 planning period. Additional storage is required to service both existing and 2025 development. The Master Plan Drawing shows a future tank at the existing Vista Ridge Tank site and another in the southwest corner of the Planning Boundary. It was assumed in the cost estimates that the Vista Ridge location would be used for the immediate tank since the land is readily available.

Zone 3 (plus Zone 4B) storage requirements are projected at 7.0 MG by 2025 and 9.8 MG at buildout. Considering the existing 1.5 MG tank, an additional 5.5 MG is recommended by 2025. Therefore, the Immediate planning budget has included costs for a 4 MG tank at the Vista Ridge location with the necessary 30”/24” transmission main.

Future planning will include siting and building a 4 MG tank at the Southwest location. This is further described in item 9.

2. The CW Bixler Blvd. connection is important for service to the Erie Village and Kenosha subdivisions. This connection will remedy high velocity and pressure problems in the area.

3. System analysis and discussions with staff have indicated concern over the solely pumped/single waterline feed configurations of both Zones 4A and 4B. Ideally, the two zones would be connected and gravity storage provided. However, elevation restrictions and budget constraints limit those options.

It is recommended that Erie pursue negotiations with the City and County of Broomfield for a site to locate a 0.5 MG elevated storage tank, just south of Preble Creek Parkway. If the project is deemed feasible, design and construction of the tank should begin as soon as possible. This would not only provide system reliability, it would also reduce the pump sizing for Zone 4B. The tank would be used to supplement peak hour and fire flows.

4. The Master Plan Drawing shows two possible locations to locate the proposed Zone 2 storage tank. The locations shown were chosen for elevation and proximity to roadways, but are considered schematic pending land acquisition. Erie should begin a preliminary siting study and the process of acquiring the land needed for the proposed tank.

5. Erie constructed the previously recommended 20" Zone 2 transmission main in Erie Parkway to County Line Road. However, the final connection to the 18" in County Line Road was not completed due to property issues. The connection should be completed or alternative routing to provide equivalent hydraulic benefit investigated.

6. The 14" asbestos cement pipe that is located on County Line Road south of Bonnell Ave. and extends around the south end of the Air Park has been experiencing multiple line breaks. This line is recommended for replacement with a 20" from Bonnell Ave. to Vista Parkway, a16" from Vista Parkway to Barron Ct. and a 12" across the south end of Airpark Subdivision. This project will increase capacity, remedy maintenance issues and will eliminate the remaining AC pipe. The final phase of the replacement should also include connection to the 8" line in Cherokee Ct.

7. The transmission main to feed the new Zone 3 tank is recommended in two phases. The first phase will connect E. County Line Road to Park Dale Cir. with a 24" waterline in Vista Parkway. This improvement will include the replacement of the AC pipe from Vista Parkway north to Bonnell Ave. with a 20" waterline if it has not yet been completed with Item 6. The second phase should be completed as dictated by development/demands (Item 13)

8. Preliminary planning to expand the existing Water Treatment Facility to a nominal capacity of 18.9 MGD is currently underway. The project will include equipping the three constructed submerged microfiltration tanks with filter modules. It will also include an expansion of the pretreatment processes, which are currently rated at 9.9 MGD.

The proposed growth dictates that Erie should immediately begin investigating future WTF expansions, whether they are at the current site or at an alternate location.

9. Two sites for the second Zone 3 storage tank have been schematically shown near the intersection of Arapahoe Road and Highway 287. A tank siting study should be completed to determine feasible locations for the proposed tank, and then commence with acquiring a site.

10 Zone 4A is fed from booster pumps drawing from the Zone 3 discharge header. It is then transmitted through a single 12" line approximately 4,000 lf to the zone boundary. If there are operation/maintenance issues with the Zone 3/4A pump station or the waterline, the zone is out of service.

The Lafayette Interconnect can provide water to Zone 4A in times of emergency; however, Erie should construct (during utility construction for Flatiron Meadows) an alternate 12" feed from the pump station to the zone at a point providing 12" equivalency.

11. The proposed waterline connecting the dead end in Cessna Drive to the loop in Parkdale Circle will improve water quality and provide an essential connection for future development.

12. Currently the Erie Commons subdivision is mostly fed through PRVs. There is only one Zone 2 gravity connection that reduces to an 8" feed. The proposed connection would utilize an abandoned line (rehabilitated with sliplining) to provide another Zone 2 connection. This would reduce the dependence on PRV feed.

13. Predicted flows will dictate that the remainder of the 24" transmission main from the plant to the Zone 3 Tanks site be completed near the end of the five year planning period. If growth proves to be slower than estimated, this improvement may be delayed. Tank filling operations need to be monitored.

APPENDICES

Water Model Output
Land Use Plan Map
Zoning Map
Boulder County Development Spreadsheet
Weld County Development Spreadsheet

EXISTING SYSTEM
NODE TABLE

Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
1593-B	5,198.20	0	5,339.32	61.1
1593-A	5,190.00	0	5,192.97	1.3
1592-B	5,198.36	0	5,339.31	61.1
1592-A	5,190.00	0	5,192.96	1.3
1591-B	5,199.61	0	5,452.81	109.7
1591-A	5,199.61	0	5,339.31	60.5
1590-B	5,199.38	0	5,452.81	109.8
1590-A	5,199.38	0	5,339.31	60.6
1589-B	5,199.38	0	5,452.81	109.8
1589-A	5,199.38	0	5,339.31	60.6
1588-B	5,199.15	0	5,452.81	109.9
1588-A	5,199.15	0	5,339.31	60.7
1587-B	5,198.82	0	5,452.82	110.1
1587-A	5,198.82	0	5,339.30	60.9
1586-B	5,198.82	0	5,452.82	110.1
1586-A	5,198.82	0	5,339.30	60.9
1585-B	5,198.36	0	5,339.31	61.1
1585-A	5,190.00	0	5,192.98	1.3
1584-B	5,293.24	0	5,467.00	75.3
1584-A	5,293.24	0	5,306.71	5.8
1583-B	5,293.24	0	5,467.00	75.3
1583-A	5,293.24	0	5,306.71	5.8
1582-B	5,293.08	0	5,467.02	75.4
1582-A	5,293.08	0	5,306.70	5.9
1581-B	5,293.08	0	5,467.00	75.4
1581-A	5,293.08	0	5,306.71	5.9
1616-B	5,071.62	0	5,187.16	50.1
1616-A	5,071.62	0	5,326.30	110.4
1615-B	5,044.00	0	5,175.03	56.8
1615-A	5,044.00	0	5,320.30	119.7
1614-B	5,050.00	0	5,175.09	54.2
1614-A	5,050.00	0	5,316.41	115.4
1613-B	5,043.05	0	5,181.92	60.2
1613-A	5,043.05	0	5,315.81	118.2
1612-B	5,058.83	0	5,181.92	53.3
1612-A	5,058.83	0	5,321.88	114
1611-B	5,059.88	0	5,181.93	52.9
1611-A	5,059.88	0	5,324.63	114.7
1609-B	5,171.89	0	5,309.65	59.7
1609-A	5,171.89	0	5,463.42	126.3
1606-B	5,056.11	0	5,183.86	55.4
1606-A	5,056.11	0	5,320.27	114.5
1601-B	5,182.81	0	5,312.49	56.2
1601-A	5,182.81	0	5,461.70	120.8
1600-B	5,183.60	0	5,309.67	54.6

EXISTING SYSTEM
NODE TABLE

Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
1600-A	5,183.60	0	5,462.45	120.8
1598-B	5,022.22	0	5,183.82	70
1598-A	5,022.22	0	5,322.15	130
1597-B	5,057.22	0	5,183.90	54.9
1597-A	5,057.22	0	5,320.28	114
1596-B	5,199.84	0	5,309.70	47.6
1596-A	5,199.84	0	5,461.89	113.5
J-2268	5,176.39	0	5,312.32	58.9
J-2267	5,022.37	0	5,183.82	70
J-2266	5,020.00	0	5,183.82	71
J-2265	5,061.67	0	5,325.53	114.3
J-2264	4,922.00	6	5,175.24	109.7
J-2263	4,942.00	0	5,175.24	101.1
J-2262	4,940.00	0	5,175.24	101.9
J-2261	4,954.00	0	5,175.24	95.9
J-2260	4,982.00	0	5,175.24	83.7
J-2259	5,047.00	0	5,324.82	120.4
J-2258	5,050.00	0	5,324.88	119.1
J-2257	5,054.00	0	5,325.13	117.5
J-2256	5,073.00	0	5,325.44	109.4
J-2255	5,076.00	0	5,325.44	108.1
J-2254	5,064.00	0	5,325.44	113.3
J-2253	5,070.00	0	5,325.99	110.9
J-2252	5,064.00	0	5,325.72	113.4
J-2251	5,064.00	0	5,325.72	113.4
J-2250	5,052.00	0	5,325.44	118.5
J-2249	5,052.00	0	5,325.44	118.5
J-2248	5,062.00	0	5,325.44	114.1
J-2247	5,060.73	0	5,325.44	114.7
J-2246	5,014.00	0	5,178.39	71.2
J-2245	5,012.00	0	5,178.39	72.1
J-2244	5,010.00	0	5,178.38	73
J-2243	5,008.00	0	5,178.39	73.8
J-2242	5,009.00	0	5,178.39	73.4
J-2241	5,039.41	0	5,323.39	123
J-2240	5,046.00	0	5,184.45	60
J-2239	5,047.00	0	5,184.08	59.4
J-2238	5,046.00	0	5,183.98	59.8
J-2237	5,042.00	0	5,183.97	61.5
J-2236	5,042.00	0	5,183.97	61.5
J-2235	5,047.00	0	5,183.96	59.3
J-2234	5,055.16	0	5,184.01	55.8
J-2233	5,047.00	0	5,184.01	59.4
J-2232	5,048.00	0	5,183.98	58.9
J-2231	5,048.00	0	5,183.96	58.9

EXISTING SYSTEM
NODE TABLE

Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-2230	5,040.00	0	5,183.88	62.3
J-2229	5,042.00	0	5,183.89	61.5
J-2228	5,043.00	0	5,183.89	61
J-2227	5,042.00	0	5,183.90	61.5
J-2226	5,044.00	0	5,183.91	60.6
J-2225	5,036.00	0	5,183.89	64.1
J-2224	5,034.00	0	5,183.87	64.9
J-2223	5,038.00	0	5,183.87	63.2
J-2222	5,036.00	0	5,183.85	64.1
J-2221	5,030.00	0	5,183.82	66.6
J-2220	5,039.00	0	5,183.77	62.7
J-2219	5,035.00	0	5,183.72	64.4
J-2218	5,035.00	0	5,183.72	64.4
J-2217	5,034.00	0	5,183.29	64.7
J-2216	5,036.00	0	5,183.10	63.7
J-2215	5,036.00	0	5,183.10	63.7
J-2214	5,040.00	0	5,182.84	61.9
J-2213	5,056.00	0	5,181.92	54.6
J-2212	5,056.00	0	5,181.92	54.6
J-2211	5,056.00	0	5,181.92	54.6
J-2210	5,056.00	0	5,181.92	54.6
J-2209	5,058.00	0	5,181.92	53.7
J-2208	5,056.00	0	5,181.92	54.6
J-2207	5,052.00	0	5,181.92	56.3
J-2206	5,050.00	0	5,181.92	57.2
J-2205	5,052.00	0	5,181.92	56.3
J-2204	5,052.00	0	5,181.92	56.3
J-2203	5,056.00	0	5,181.92	54.6
J-2202	5,058.00	0	5,181.92	53.7
J-2201	5,062.00	0	5,181.92	52
J-2200	5,060.00	0	5,181.92	52.8
J-2199	5,057.00	0	5,181.92	54.1
J-2198	5,055.00	0	5,181.92	55
J-2197	5,057.46	0	5,181.92	53.9
J-2196	5,057.00	0	5,181.92	54.1
J-2195	5,057.00	0	5,181.92	54.1
J-2194	5,057.00	0	5,181.92	54.1
J-2193	5,058.00	0	5,181.92	53.7
J-2192	5,062.00	0	5,181.92	52
J-2191	5,070.00	0	5,181.92	48.5
J-2190	5,076.00	0	5,181.92	45.9
J-2189	5,074.00	0	5,181.92	46.8
J-2188	5,065.00	0	5,181.92	50.7
J-2187	5,118.00	0	5,317.55	86.5
J-2186	5,104.00	1	5,317.55	92.5

EXISTING SYSTEM
NODE TABLE

Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-2185	5,104.00	0	5,317.55	92.5
J-2184	5,107.00	0	5,317.55	91.2
J-2183	5,174.00	0	5,312.31	59.9
J-2166	5,164.50	0	5,313.52	64.6
J-2165	5,126.45	0	5,313.80	81.2
J-2164	5,190.00	0	5,192.98	1.3
J-2163	5,198.36	0	5,339.31	61.1
J-2162	5,028.29	12	5,183.90	67.4
J-2161	5,043.77	4	5,183.86	60.7
J-2117	5,218.74	0	5,465.51	106.9
J-2094	5,112.50	0	5,314.19	87.4
J-1838	5,219.85	2	5,462.17	105
J-1439	5,036.68	6	5,184.24	63.9
J-812	5,166.01	10	5,337.03	74.1
J-1011	5,160.96	5	5,335.20	75.5
J-642	5,117.29	3	5,313.22	84.9
J-1922	5,269.42	2	5,462.50	83.7
J-1982	5,264.31	2	5,462.47	85.9
J-1035	5,220.70	6	5,449.21	99
J-839	5,017.62	6	5,183.91	72.1
J-2014	5,051.91	3	5,181.92	56.3
J-1530	5,008.11	9	5,178.41	73.8
J-1057	5,054.96	1	5,181.92	55
J-935	5,223.43	6	5,449.31	97.9
J-1926	5,123.36	1	5,325.03	87.4
J-2029	5,161.16	20	5,309.71	64.4
J-1225	5,238.98	0	5,462.44	96.8
J-849	5,170.38	6	5,309.67	60.4
J-1551	5,025.43	1	5,184.03	68.7
J-656	5,026.19	10	5,184.16	68.4
J-1893	5,071.62	3	5,326.35	110.4
J-800	5,160.99	4	5,336.63	76.1
J-1309	5,116.24	5	5,328.01	91.8
J-1474	5,272.67	3	5,462.50	82.3
J-1839	5,144.46	7	5,309.73	71.6
J-1518	5,114.50	2	5,331.27	93.9
J-1362	5,235.27	2	5,449.20	92.7
J-1063	5,252.10	1	5,449.20	85.4
J-1373	5,070.28	1	5,317.76	107.2
J-949	5,057.81	7	5,181.93	53.8
J-1394	5,128.58	5	5,325.76	85.4
J-2049	5,247.74	1	5,449.30	87.3
J-1127	5,050.56	5	5,316.43	115.2
J-931	5,019.43	4	5,183.92	71.3
J-1642	5,105.38	6	5,310.99	89.1

EXISTING SYSTEM
NODE TABLE

Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-986	5,148.89	5	5,309.72	69.7
J-1178	5,015.39	14	5,184.02	73.1
J-1252	5,110.90	4	5,310.44	86.5
J-1644	5,056.53	12	5,319.57	114
J-1231	5,080.25	2	5,326.48	106.7
J-1266	5,090.88	1	5,328.37	102.9
J-1039	5,196.95	2	5,462.55	115.1
J-707	5,128.09	3	5,331.27	88
J-691	5,054.47	0	5,185.55	56.8
J-1080	5,053.61	0	5,185.55	57.2
J-1073	5,122.41	18	5,325.84	88.1
J-1824	5,110.31	3	5,327.99	94.3
J-1212	5,207.84	2	5,462.49	110.3
J-1894	5,182.71	1	5,462.52	121.2
J-1489	5,131.79	1	5,331.39	86.5
J-1355	5,202.13	3	5,309.68	46.6
J-1786	4,994.00	2	5,178.54	80
J-1684	5,088.39	2	5,330.90	105.1
J-872	5,123.49	1	5,328.03	88.6
J-718	5,013.72	2	5,183.91	73.7
J-1289	5,084.12	8	5,320.26	102.3
J-1132	5,195.84	4	5,449.40	109.9
J-837	5,150.79	1	5,332.02	78.5
J-2106	5,036.32	3	5,184.38	64.2
J-1744	5,097.38	5	5,310.52	92.4
J-2072	5,059.88	21	5,324.63	114.7
J-1553	5,220.34	6	5,449.25	99.2
J-1383	5,199.71	4	5,461.93	113.6
J-2068	5,204.30	5	5,449.31	106.2
J-2000	5,286.62	1	5,462.50	76.2
J-716	5,196.62	4	5,462.55	115.2
J-1711	5,037.21	0	5,184.39	63.8
J-1985	5,160.60	5	5,331.97	74.3
J-1930	5,165.85	6	5,309.67	62.3
J-609	5,103.87	6	5,310.44	89.5
J-667	5,001.84	4	5,178.77	76.7
J-1059	5,231.46	2	5,449.20	94.3
J-958	5,136.75	5	5,324.88	81.5
J-1950	5,120.08	4	5,327.61	89.9
J-675	5,130.32	1	5,331.32	87.1
J-728	5,137.27	3	5,309.69	74.7
J-1906	5,285.34	9	5,462.52	76.8
J-1793	5,141.47	3	5,309.65	72.9
J-1249	5,134.45	5	5,311.86	76.9
J-742	5,174.97	1	5,309.69	58.4

EXISTING SYSTEM
NODE TABLE

Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-1404	5,079.56	1	5,310.71	100.2
J-724	5,200.17	2	5,449.36	108
J-2050	5,148.26	7	5,331.62	79.5
J-1661	5,088.00	1	5,310.95	96.6
J-1421	5,195.41	4	5,462.35	115.7
J-1218	5,176.81	3	5,337.20	69.5
J-1118	5,158.70	2	5,309.71	65.4
J-627	5,070.18	3	5,319.75	108.1
J-1064	5,143.64	3	5,325.66	78.9
J-1358	5,135.96	3	5,325.06	81.9
J-2051	5,030.12	5	5,184.18	66.8
J-1584	5,160.34	8	5,325.16	71.4
J-863	5,141.31	3	5,324.46	79.4
J-1709	5,208.20	2	5,461.30	109.7
J-758	5,155.25	1	5,324.92	73.5
J-1135	5,025.43	4	5,184.03	68.7
J-1586	5,147.25	5	5,324.93	77
J-1683	5,199.02	8	5,449.31	108.5
J-1457	5,021.33	5	5,183.92	70.5
J-1461	5,055.71	4	5,181.92	54.7
J-1785	5,207.45	1	5,461.99	110.3
J-1505	5,076.81	6	5,319.54	105.2
J-1078	5,229.43	1	5,462.08	100.8
J-2058	5,019.53	5	5,183.92	71.2
J-1885	5,117.06	1	5,331.27	92.8
J-1242	5,147.41	1	5,332.00	80
J-753	5,108.83	6	5,319.94	91.5
J-1569	5,209.71	7	5,449.29	103.8
J-853	5,202.86	1	5,309.69	46.3
J-989	5,048.00	4	5,175.03	55
J-1576	5,255.35	3	5,462.52	89.8
J-1077	5,057.68	2	5,181.92	53.8
J-1360	5,145.54	2	5,309.70	71.1
J-1148	5,261.35	3	5,462.58	87.2
J-887	5,079.79	6	5,186.62	46.3
J-637	5,144.26	3	5,309.73	71.7
J-612	5,128.02	3	5,311.57	79.5
J-944	5,159.32	6	5,331.69	74.7
J-1806	5,246.10	4	5,463.42	94.2
J-660	5,151.61	8	5,316.81	71.6
J-1279	5,010.44	2	5,178.50	72.8
J-873	5,218.28	4	5,449.22	100.1
J-1645	5,130.58	6	5,311.57	78.4
J-1227	5,192.10	2	5,462.48	117.2
J-1153	5,157.48	1	5,332.03	75.6

EXISTING SYSTEM
NODE TABLE

Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-1042	5,221.89	3	5,449.25	98.5
J-1915	4,997.22	6	5,178.37	78.5
J-1604	5,119.95	4	5,327.61	90
J-1469	5,051.58	3	5,181.92	56.5
J-926	5,149.90	2	5,331.69	78.8
J-981	5,127.43	4	5,325.80	86
J-1962	5,032.19	0	5,183.92	65.7
J-2003	5,141.28	4	5,324.92	79.6
J-1707	5,079.99	4	5,186.66	46.2
J-738	5,209.91	4	5,449.31	103.7
J-1918	5,214.04	3	5,449.29	101.9
J-1792	5,132.78	5	5,331.37	86
J-1694	5,048.17	1	5,181.93	58
J-1376	5,097.35	3	5,310.61	92.4
J-1938	5,153.55	1	5,309.70	67.7
J-1581	5,129.20	4	5,325.05	84.9
J-1162	5,006.89	2	5,178.40	74.3
J-856	5,043.05	0	5,181.92	60.2
J-2034	5,052.86	8	5,316.64	114.3
J-1850	5,152.33	5	5,316.81	71.3
J-934	5,197.74	7	5,462.56	114.7
J-1305	5,011.16	7	5,178.44	72.5
J-1167	5,054.53	2	5,181.92	55.2
J-1033	5,009.52	3	5,178.40	73.2
J-1598	5,236.85	30	5,462.44	97.7
J-763	5,165.52	18	5,316.61	65.5
J-698	5,163.88	8	5,335.19	74.2
J-947	5,064.57	9	5,321.76	111.4
J-1029	5,182.48	5	5,462.45	121.3
J-779	5,005.16	2	5,178.34	75
J-1521	5,015.72	5	5,183.90	72.9
J-1603	5,210.89	3	5,461.45	108.6
J-1836	5,094.46	3	5,310.98	93.8
J-646	5,174.74	5	5,312.31	59.6
J-1010	5,211.62	13	5,462.36	108.6
J-1625	5,181.76	2	5,462.50	121.6
J-1459	5,160.34	31	5,316.85	67.8
J-1165	5,003.25	1	5,178.50	75.9
J-1904	5,178.71	3	5,462.53	123
J-1483	5,151.25	4	5,309.68	68.6
J-1160	5,251.77	4	5,462.56	91.3
J-1440	5,227.33	10	5,449.25	96.2
J-2101	5,127.69	3	5,309.65	78.8
J-1491	5,161.39	3	5,309.70	64.3
J-1385	5,114.14	5	5,310.67	85.2

EXISTING SYSTEM
NODE TABLE

Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-896	5,130.32	3	5,324.91	84.3
J-1407	5,006.99	6	5,178.33	74.2
J-686	5,123.99	8	5,324.18	86.7
J-1802	5,120.51	4	5,328.01	89.9
J-2104	5,246.92	3	5,463.42	93.8
J-1340	5,021.40	3	5,184.10	70.5
J-2022	5,162.37	1	5,309.68	63.8
J-1622	5,175.63	11	5,337.20	70
J-789	5,006.76	4	5,178.34	74.3
J-1934	5,159.71	1	5,309.68	65
J-1499	5,099.97	6	5,310.64	91.3
J-641	5,099.74	2	5,310.46	91.3
J-2048	5,050.00	3	5,315.81	115.2
J-1396	5,123.49	2	5,311.16	81.3
J-1541	4,996.66	7	5,178.35	78.7
J-1902	5,225.40	2	5,462.62	102.8
J-661	5,000.50	4	5,178.39	77.1
J-747	5,267.55	9	5,462.49	84.5
J-2001	5,109.29	4	5,324.33	93.2
J-1886	5,017.00	3	5,183.89	72.3
J-1276	5,143.87	6	5,324.92	78.4
J-2082	5,050.20	2	5,181.93	57.1
J-2005	5,250.46	3	5,462.53	91.9
J-2088	5,112.11	10	5,324.48	92
J-1953	5,084.16	1	5,310.51	98.1
J-692	5,111.58	2	5,331.27	95.2
J-1651	5,059.65	2	5,321.84	113.6
J-2046	5,154.20	5	5,336.63	79
J-1131	5,187.99	2	5,462.52	119
J-1854	5,054.33	2	5,181.92	55.3
J-1788	5,123.36	2	5,328.03	88.7
J-1668	5,018.93	5	5,184.06	71.6
J-1811	5,228.81	4	5,449.27	95.5
J-2008	5,212.01	4	5,449.25	102.8
J-1538	5,141.51	2	5,331.27	82.2
J-1812	5,222.44	2	5,462.37	104
J-736	5,155.65	4	5,309.72	66.8
J-1106	5,119.89	2	5,331.27	91.6
J-1641	5,155.84	2	5,332.00	76.3
J-1330	5,030.06	2	5,184.20	66.8
J-683	5,145.15	4	5,325.59	78.2
J-1428	5,012.57	5	5,183.92	74.2
J-1032	5,034.68	7	5,184.25	64.8
J-611	5,155.65	2	5,309.68	66.7
J-665	5,207.55	5	5,462.00	110.3

EXISTING SYSTEM
NODE TABLE

Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-2109	5,170.84	1	5,309.68	60.2
J-769	5,123.63	4	5,310.46	81
J-689	5,150.79	9	5,309.66	68.8
J-1196	5,057.22	19	5,325.14	116.1
J-864	5,049.81	2	5,181.92	57.2
J-1072	5,163.49	15	5,316.83	66.4
J-1091	5,271.49	7	5,463.86	83.4
J-1768	5,103.15	2	5,310.55	89.9
J-1233	5,147.71	2	5,309.69	70.2
J-1504	5,057.85	14	5,316.55	112.1
J-1128	5,062.11	6	5,319.85	111.7
J-1299	5,003.94	4	5,178.38	75.6
J-867	5,204.83	13	5,461.65	111.3
J-1975	5,194.52	3	5,449.34	110.4
J-1126	5,275.17	1	5,464.35	82
J-705	5,193.21	9	5,463.42	117.1
J-1341	5,188.06	5	5,449.43	113.3
J-1408	4,994.07	5	5,178.40	79.9
J-1264	5,267.42	10	5,463.84	85.1
J-1710	5,046.33	2	5,181.97	58.8
J-1339	5,149.81	3	5,331.63	78.8
J-1412	5,228.91	0	5,462.42	101.2
J-2002	5,042.72	3	5,181.92	60.3
J-639	5,250.36	4	5,449.20	86.2
J-672	5,250.13	1	5,462.44	92
J-1912	5,034.16	9	5,183.80	64.8
J-824	5,111.26	2	5,328.00	93.9
J-1493	5,119.72	5	5,311.16	83
J-1273	5,067.52	8	5,311.96	105.9
J-1575	5,144.33	4	5,324.92	78.2
J-1047	4,995.87	6	5,178.37	79.1
J-1704	5,204.43	11	5,461.41	111.3
J-1158	5,000.99	5	5,178.33	76.8
J-1040	5,034.19	9	5,184.37	65.1
J-1800	5,104.20	8	5,324.37	95.4
J-1053	5,207.68	4	5,449.32	104.7
J-1781	5,143.44	2	5,317.01	75.2
J-1312	5,037.73	19	5,184.29	63.5
J-1621	5,199.90	17	5,461.69	113.4
J-1817	5,243.37	3	5,462.65	95
J-1556	5,224.77	5	5,462.56	103
J-1350	5,159.09	2	5,309.68	65.3
J-1377	5,043.64	3	5,175.04	56.9
J-1381	5,137.73	7	5,309.80	74.6
J-1566	5,249.15	2	5,462.53	92.5

EXISTING SYSTEM
NODE TABLE

Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-1559	5,057.94	2	5,181.92	53.7
J-906	5,008.08	15	5,178.32	73.8
J-990	5,131.01	2	5,331.39	86.8
J-995	5,085.96	6	5,310.64	97.4
J-1509	5,181.27	3	5,336.88	67.4
J-1891	5,021.10	5	5,183.83	70.5
J-745	5,044.33	8	5,175.07	56.6
J-1378	5,071.82	1	5,310.94	103.6
J-1243	5,162.34	7	5,331.95	73.5
J-2011	5,130.09	11	5,324.40	84.2
J-1311	5,139.77	1	5,331.48	83.1
J-749	5,057.55	15	5,317.75	112.7
J-916	4,994.85	10	5,178.39	79.5
J-2006	5,047.84	2	5,181.93	58.1
J-1494	5,124.68	3	5,324.90	86.8
J-1108	5,178.55	0	5,309.69	56.8
J-1103	5,166.80	4	5,336.50	73.5
J-1775	5,096.43	16	5,330.90	101.6
J-988	5,080.09	6	5,310.99	100
J-1095	5,200.10	2	5,462.36	113.6
J-1647	5,124.18	2	5,310.46	80.7
J-702	5,021.79	3	5,183.83	70.2
J-1476	5,157.19	22	5,316.81	69.2
J-1151	5,160.11	1	5,332.15	74.5
J-936	5,229.53	2	5,449.20	95.2
J-1935	5,164.77	1	5,309.70	62.8
J-1968	5,137.70	2	5,331.32	83.9
J-1169	4,989.97	5	5,178.33	81.6
J-835	5,238.16	4	5,462.53	97.2
J-1486	5,076.68	3	5,321.76	106.2
J-735	5,258.96	8	5,462.61	88.2
J-1816	5,240.62	8	5,463.46	96.6
J-1348	5,066.18	5	5,321.73	110.7
J-2044	5,111.19	2	5,310.54	86.4
J-1296	5,130.97	2	5,331.39	86.8
J-1840	5,067.59	2	5,310.96	105.5
J-2027	5,114.96	11	5,328.00	92.3
J-819	5,224.54	5	5,449.26	97.4
J-653	5,054.63	2	5,181.92	55.2
J-1776	5,196.03	6	5,449.34	109.8
J-1881	4,999.58	5	5,178.34	77.5
J-1356	5,171.36	1	5,309.69	59.9
J-1323	5,221.92	1	5,462.42	104.2
J-721	5,130.02	2	5,328.02	85.8
J-1336	5,061.88	6	5,321.84	112.6

EXISTING SYSTEM
NODE TABLE

Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-604	5,070.02	1	5,186.58	50.5
J-966	5,048.17	3	5,182.62	58.3
J-855	5,144.06	10	5,325.61	78.7
J-1284	5,174.58	1	5,312.31	59.7
J-1753	5,070.48	2	5,310.92	104.2
J-1761	5,146.82	6	5,331.62	80.1
J-1023	5,008.57	3	5,178.41	73.6
J-1372	5,067.29	5	5,312.36	106.2
J-1680	5,238.45	3	5,462.90	97.3
J-1512	5,104.24	1	5,310.52	89.4
J-1133	5,136.58	10	5,332.04	84.7
J-1873	5,135.83	6	5,325.72	82.3
J-868	5,074.12	3	5,310.97	102.6
J-1848	5,140.46	1	5,332.00	83
J-946	5,167.78	4	5,336.82	73.2
J-2099	5,111.52	5	5,324.27	92.2
J-948	5,123.03	3	5,325.04	87.5
J-1359	5,052.07	3	5,181.92	56.3
J-833	5,068.84	8	5,321.99	109.7
J-1517	5,252.95	3	5,463.57	91.3
J-634	5,087.93	10	5,319.62	100.4
J-748	5,107.58	9	5,312.02	88.6
J-1550	5,149.02	1	5,332.03	79.3
J-1219	5,064.34	5	5,186.68	53
J-1948	5,060.83	12	5,319.37	112
J-2023	5,163.29	3	5,309.71	63.4
J-1301	5,158.11	7	5,324.92	72.3
J-1579	5,218.57	7	5,463.44	106.1
J-1907	5,130.25	3	5,328.02	85.7
J-1099	5,166.93	1	5,309.68	61.9
J-1745	5,048.00	11	5,175.07	55.1
J-848	5,137.34	4	5,324.91	81.3
J-1288	4,991.74	5	5,178.35	80.9
J-851	5,214.37	7	5,449.26	101.8
J-1725	5,194.79	3	5,462.49	116
J-1544	5,004.40	1	5,178.33	75.4
J-731	5,170.57	2	5,309.69	60.3
J-1857	5,055.35	14	5,316.33	113.1
J-608	5,181.30	1	5,309.69	55.6
J-1367	5,049.68	2	5,181.93	57.3
J-1944	5,210.53	4	5,461.38	108.7
J-885	5,100.63	1	5,310.72	91
J-975	5,045.67	2	5,182.11	59.1
J-1229	5,167.92	2	5,332.00	71.1
J-953	5,234.22	3	5,462.06	98.7

EXISTING SYSTEM
NODE TABLE

Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-1260	5,076.15	10	5,316.80	104.3
J-1981	5,060.27	5	5,321.81	113.3
J-681	5,119.98	8	5,324.26	88.5
J-1375	5,194.52	2	5,449.34	110.4
J-1515	5,067.13	4	5,186.94	51.9
J-952	5,042.79	15	5,182.84	60.7
J-1747	5,128.45	7	5,311.86	79.5
J-1107	5,015.56	4	5,183.90	72.9
J-1203	5,063.78	3	5,186.78	53.3
J-1841	5,224.84	6	5,449.29	97.3
J-1909	5,152.20	2	5,332.06	77.9
J-1925	5,082.02	1	5,321.61	103.8
J-1735	5,148.95	5	5,309.69	69.6
J-1319	5,123.56	2	5,331.33	90
J-1830	5,086.22	4	5,332.18	106.6
J-1696	5,239.83	9	5,449.20	90.7
J-1327	5,148.76	6	5,336.32	81.3
J-1157	5,082.02	8	5,320.26	103.2
J-1796	5,221.72	5	5,463.42	104.7
J-1818	5,134.98	4	5,331.37	85.1
J-1573	5,220.51	26	5,449.26	99.1
J-2052	5,091.80	2	5,310.95	95
J-1019	5,231.92	6	5,449.26	94.2
J-1899	5,190.19	15	5,336.94	63.6
J-886	5,161.52	32	5,324.92	70.8
J-823	5,261.48	4	5,462.46	87.1
J-1141	5,154.56	2	5,309.72	67.2
J-2020	5,137.57	1	5,331.45	84
J-1937	5,140.52	4	5,325.61	80.2
J-2095	5,225.23	5	5,463.42	103.2
J-1110	5,153.35	1	5,309.68	67.7
J-1271	5,135.01	4	5,325.05	82.3
J-1417	4,991.05	4	5,178.36	81.2
J-1371	5,078.38	7	5,310.96	100.8
J-648	5,199.02	7	5,449.34	108.5
J-1697	5,210.47	2	5,449.24	103.5
J-1698	5,096.03	2	5,330.90	101.8
J-1044	5,023.33	4	5,183.91	69.6
J-900	5,117.59	5	5,331.27	92.6
J-1782	5,003.25	0	5,178.39	75.9
J-1081	5,141.05	29	5,324.44	79.5
J-1829	5,186.85	8	5,449.48	113.8
J-1452	5,220.70	3	5,462.63	104.8
J-1085	5,250.63	16	5,462.46	91.8
J-1861	5,247.77	4	5,462.45	93

EXISTING SYSTEM
NODE TABLE

Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-1552	4,996.49	4	5,178.34	78.8
J-1845	5,043.64	5	5,175.06	56.9
J-1898	5,025.69	5	5,184.03	68.6
J-685	5,229.56	8	5,462.45	100.9
J-629	5,193.21	5	5,449.65	111.1
J-805	5,104.96	0	5,323.64	94.8
J-1465	5,023.50	2	5,183.83	69.5
J-754	5,216.08	2	5,462.19	106.6
J-956	5,016.80	3	5,183.89	72.4
J-829	5,022.38	3	5,183.83	70
J-1338	5,247.25	1	5,449.30	87.6
J-1695	5,216.77	44	5,461.28	105.9
J-1500	5,128.65	6	5,325.74	85.4
J-1365	5,127.89	3	5,324.94	85.4
J-1991	5,133.63	4	5,332.02	86
J-846	5,067.26	1	5,321.99	110.4
J-614	5,024.25	5	5,183.83	69.1
J-708	5,014.64	2	5,183.90	73.3
J-969	5,092.46	6	5,328.37	102.2
J-1152	5,205.05	3	5,449.32	105.8
J-857	5,154.46	6	5,309.70	67.3
J-734	5,056.27	3	5,181.92	54.4
J-2079	5,137.60	3	5,331.51	84
J-2098	5,232.15	3	5,462.39	99.8
J-1657	5,148.36	0	5,332.00	79.6
J-945	5,204.96	4	5,449.31	105.9
J-987	5,079.60	6	5,310.81	100.2
J-1205	5,222.28	9	5,461.25	103.5
J-1742	5,025.27	9	5,184.14	68.8
J-1333	5,233.43	1	5,462.43	99.2
J-693	5,017.20	0	5,183.89	72.2
J-1675	4,998.04	6	5,178.33	78.1
J-2016	5,217.16	5	5,449.22	100.6
J-1213	5,118.80	3	5,331.19	92
J-2076	5,043.51	2	5,182.79	60.4
J-1927	5,054.76	15	5,181.92	55.1
J-1315	5,151.41	2	5,324.92	75.2
J-1908	5,200.63	2	5,449.35	107.8
J-1263	5,122.02	7	5,310.52	81.7
J-1307	5,130.29	2	5,324.91	84.3
J-893	5,060.27	4	5,312.36	109.2
J-998	5,036.09	5	5,184.38	64.3
J-1549	5,226.45	7	5,449.25	96.5
J-771	5,140.00	4	5,325.18	80.2
J-1329	5,150.27	3	5,331.69	78.6

EXISTING SYSTEM
NODE TABLE

Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-2025	5,137.93	3	5,324.91	81
J-1540	5,009.49	10	5,178.40	73.2
J-1398	5,117.98	5	5,324.19	89.3
J-1297	5,046.49	3	5,181.94	58.7
J-1764	5,131.70	5	5,325.04	83.8
J-739	5,160.17	1	5,332.16	74.5
J-1322	5,233.66	6	5,449.30	93.4
J-1763	5,020.77	5	5,183.83	70.7
J-1762	5,077.53	14	5,318.48	104.4
J-694	5,198.46	2	5,462.35	114.3
J-1514	5,172.48	4	5,336.50	71.1
J-2089	5,128.45	4	5,328.02	86.5
J-1182	5,137.31	2	5,325.08	81.4
J-1119	5,070.15	0	5,310.94	104.3
J-703	5,149.12	6	5,336.38	81.1
J-866	5,210.44	36	5,461.32	108.7
J-1113	5,032.16	4	5,184.00	65.8
J-1916	5,056.66	5	5,181.92	54.3
J-1522	5,090.62	1	5,310.48	95.3
J-919	5,167.75	2	5,332.00	71.2
J-1726	5,124.81	4	5,331.30	89.5
J-1652	5,064.67	3	5,312.36	107.3
J-1670	5,000.10	3	5,178.50	77.3
J-1122	5,014.67	3	5,183.91	73.3
J-1294	5,007.16	3	5,178.39	74.2
J-1420	4,996.13	4	5,178.34	79
J-618	5,180.94	2	5,462.48	122
J-1996	5,085.04	18	5,330.88	106.5
J-1086	5,115.95	5	5,324.18	90.2
J-1037	5,003.35	5	5,178.33	75.8
J-1142	5,102.37	1	5,310.46	90.2
J-1837	5,051.51	16	5,181.92	56.5
J-1009	5,114.64	2	5,310.53	84.9
J-1308	5,141.70	3	5,326.02	79.9
J-1492	5,070.64	6	5,310.74	104
J-2032	5,040.65	6	5,175.03	58.2
J-2015	5,208.93	5	5,461.33	109.4
J-2021	5,177.92	1	5,309.69	57.1
J-2054	5,081.93	2	5,320.27	103.3
J-1314	5,075.99	3	5,186.69	48
J-951	5,159.25	4	5,462.52	131.4
J-2080	5,147.05	1	5,316.99	73.6
J-1069	5,118.74	2	5,324.19	89
J-1669	5,138.68	0	5,331.48	83.5
J-815	5,130.35	3	5,328.02	85.7

EXISTING SYSTEM
NODE TABLE

Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-920	4,999.32	6	5,178.34	77.6
J-1700	5,114.14	9	5,324.35	91.1
J-706	5,174.51	3	5,462.53	124.8
J-1797	5,130.51	3	5,325.81	84.6
J-713	5,180.25	8	5,336.78	67.8
J-655	4,994.03	4	5,178.33	79.9
J-1591	5,262.37	3	5,462.51	86.7
J-2084	5,050.37	5	5,182.42	57.2
J-869	5,055.12	5	5,181.92	54.9
J-1083	5,147.80	6	5,325.59	77
J-1843	5,172.15	0	5,309.69	59.6
J-697	5,157.61	5	5,309.65	65.9
J-1300	5,018.71	12	5,184.08	71.7
J-2031	5,097.38	4	5,311.01	92.6
J-1623	5,064.87	3	5,186.68	52.8
J-1120	5,101.55	5	5,311.56	91
J-1280	5,050.27	2	5,181.92	57
J-882	5,231.92	39	5,461.24	99.4
J-654	5,080.22	4	5,320.26	104
J-901	5,010.37	2	5,178.45	72.8
J-1139	5,081.27	4	5,319.56	103.2
J-871	5,056.17	12	5,319.05	113.9
J-1349	5,242.46	2	5,449.20	89.6
J-1572	5,205.91	8	5,462.24	111.1
J-1403	5,012.44	13	5,178.45	71.9
J-910	4,996.23	2	5,178.54	79
J-607	5,009.91	4	5,183.93	75.4
J-1632	5,241.57	11	5,462.44	95.7
J-1451	5,235.70	2	5,449.20	92.5
J-1870	5,005.06	2	5,178.34	75.1
J-1180	5,216.73	8	5,463.43	106.9
J-1236	5,219.69	6	5,462.40	105.2
J-1221	5,197.02	2	5,462.50	115
J-1168	5,208.24	5	5,462.20	110
J-1272	5,043.34	1	5,181.92	60
J-1795	5,008.17	4	5,178.85	74
J-1951	5,039.44	7	5,175.04	58.8
J-1207	5,014.05	3	5,183.91	73.6
J-1111	5,156.60	2	5,309.72	66.3
J-1104	5,068.64	2	5,187.09	51.3
J-941	5,029.33	3	5,184.20	67.1
J-1686	5,123.63	3	5,325.04	87.3
J-1593	5,106.47	24	5,328.10	96
J-1618	5,075.86	4	5,311.74	102.2
J-1955	5,117.62	4	5,331.10	92.5

EXISTING SYSTEM
NODE TABLE

Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-1910	5,018.61	4	5,184.05	71.7
J-1667	5,006.47	7	5,178.40	74.5
J-1851	5,142.33	3	5,325.59	79.4
J-1146	5,219.52	7	5,462.52	105.3
J-1351	5,157.58	3	5,462.52	132.1
J-1999	5,066.47	2	5,321.98	110.7
J-2096	5,136.72	5	5,325.81	81.9
J-1574	5,160.44	1	5,332.18	74.4
J-784	5,207.45	1	5,461.31	110
J-1424	5,163.55	3	5,335.19	74.4
J-1750	5,097.02	3	5,310.60	92.5
J-1217	5,246.79	4	5,463.41	93.9
J-1543	5,269.46	2	5,463.92	84.3
J-1928	5,213.45	3	5,462.19	107.8
J-1147	5,057.88	0	5,181.92	53.7
J-1580	5,158.30	1	5,332.00	75.3
J-1048	5,236.68	3	5,449.20	92.1
J-801	5,066.24	2	5,186.90	52.3
J-1488	5,154.17	9	5,325.00	74
J-1337	5,180.42	7	5,462.53	122.2
J-1441	5,193.05	3	5,462.55	116.8
J-623	5,142.82	6	5,331.59	81.8
J-1445	5,022.97	5	5,183.91	69.7
J-1173	4,993.11	5	5,178.33	80.3
J-1740	5,244.88	3	5,449.30	88.6
J-1501	5,063.06	0	5,186.08	53.3
J-2024	5,034.39	14	5,184.29	64.9
J-1482	5,144.00	9	5,324.50	78.2
J-1418	4,999.18	4	5,178.39	77.7
J-1687	5,040.82	2	5,181.92	61.1
J-818	5,150.66	1	5,332.02	78.6
J-1627	5,078.74	5	5,310.81	100.6
J-811	5,257.25	3	5,463.59	89.4
J-1346	5,017.00	5	5,183.93	72.3
J-1619	5,030.58	30	5,184.10	66.5
J-1155	5,086.85	4	5,310.95	97.1
J-870	5,046.36	0	5,315.81	116.8
J-1919	5,155.42	3	5,332.18	76.6
J-2040	5,055.61	9	5,319.38	114.3
J-842	5,220.08	4	5,462.69	105.1
J-822	5,062.64	6	5,321.78	112.3
J-1977	5,088.72	9	5,320.27	100.3
J-927	5,030.12	1	5,184.19	66.8
J-1614	5,180.38	4	5,309.69	56
J-959	5,051.91	1	5,181.92	56.3

EXISTING SYSTEM
NODE TABLE

Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-1245	5,184.09	1	5,309.69	54.4
J-1046	5,058.63	0	5,181.92	53.4
J-1743	5,181.60	1	5,309.69	55.5
J-1988	5,068.34	2	5,321.99	109.9
J-838	5,162.17	5	5,331.97	73.6
J-2033	5,120.44	4	5,331.28	91.4
J-1238	5,145.18	6	5,309.68	71.3
J-1646	5,167.75	1	5,309.71	61.5
J-1138	5,217.19	3	5,449.24	100.5
J-1942	5,150.13	9	5,325.39	75.9
J-854	5,164.18	2	5,309.70	63.1
J-1739	5,064.96	10	5,321.78	111.3
J-1014	5,228.02	2	5,463.45	102
J-2056	5,008.50	3	5,178.41	73.6
J-1874	5,060.83	0	5,185.94	54.2
J-1825	5,217.42	6	5,449.21	100.4
J-1444	5,101.05	4	5,332.18	100.1
J-1334	5,021.26	5	5,183.93	70.5
J-1013	5,052.69	6	5,316.18	114.2
J-1363	5,152.43	7	5,316.92	71.3
J-1946	5,079.73	3	5,310.97	100.2
J-1535	5,183.37	1	5,462.52	121
J-712	5,029.27	8	5,184.01	67
J-1325	5,054.83	15	5,186.08	56.9
J-817	5,108.40	2	5,331.26	96.6
J-2045	5,240.65	1	5,462.42	96.1
J-1251	5,018.93	7	5,184.06	71.6
J-1673	5,066.90	10	5,321.99	110.5
J-2043	5,136.95	4	5,310.46	75.2
J-1678	5,001.88	4	5,178.37	76.5
J-1442	5,012.77	4	5,183.92	74.2
J-1814	5,156.60	5	5,335.20	77.4
J-1884	5,254.69	5	5,463.59	90.5
J-1321	5,157.52	3	5,332.00	75.6
J-1634	5,069.23	4	5,319.73	108.5
J-1411	5,038.55	7	5,184.38	63.2
J-1708	5,152.17	3	5,324.92	74.9
J-1957	5,097.02	4	5,310.81	92.6
J-1437	5,230.09	4	5,449.20	94.9
J-1607	5,178.91	2	5,309.68	56.7
J-2064	5,002.66	8	5,178.37	76.1
J-1462	5,238.35	4	5,449.20	91.4
J-668	5,109.26	2	5,324.02	93.1
J-1799	5,222.54	1	5,462.40	103.9
J-700	5,238.42	14	5,462.45	97.1

EXISTING SYSTEM
NODE TABLE

Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-1239	5,157.94	1	5,309.72	65.8
J-1692	5,051.61	2	5,181.92	56.5
J-1722	5,146.13	3	5,324.92	77.5
J-1810	5,012.67	1	5,183.92	74.2
J-1989	5,279.63	3	5,462.49	79.2
J-1688	5,136.91	6	5,324.92	81.5
J-796	5,144.72	1	5,331.38	80.9
J-1115	5,169.13	10	5,336.63	72.6
J-977	5,222.84	64	5,461.24	103.3
J-994	5,245.34	3	5,463.41	94.5
J-1703	5,048.23	2	5,181.93	57.9
J-1450	5,058.83	2	5,181.92	53.3
J-1654	5,266.04	3	5,462.48	85.1
J-2074	5,250.92	3	5,449.20	85.9
J-1409	5,199.58	12	5,463.42	114.3
J-1255	5,285.80	25	5,462.49	76.6
J-1986	5,018.41	4	5,183.90	71.7
J-1354	5,139.14	4	5,331.56	83.4
J-2102	5,136.85	1	5,331.45	84.3
J-1767	5,136.35	4	5,309.84	75.2
J-744	5,159.62	2	5,332.03	74.7
J-938	5,019.46	6	5,184.06	71.3
J-1567	5,161.19	7	5,332.00	74
J-983	5,109.29	4	5,324.10	93.1
J-2038	5,092.16	2	5,310.98	94.8
J-1862	5,136.03	1	5,331.36	84.6
J-1978	5,230.58	1	5,462.42	100.5
J-820	5,232.32	2	5,462.43	99.7
J-783	5,150.46	6	5,325.39	75.8
J-1900	5,069.03	1	5,186.88	51.1
J-974	5,134.78	5	5,309.81	75.8
J-1453	5,052.60	3	5,181.92	56
J-755	5,053.19	2	5,181.92	55.8
J-1582	5,051.68	4	5,181.92	56.4
J-1844	5,088.62	3	5,310.63	96.2
J-1734	5,211.65	5	5,449.32	103
J-821	5,209.22	4	5,462.48	109.7
J-2086	5,089.47	2	5,328.37	103.5
J-964	5,049.28	1	5,181.93	57.5
J-1124	5,151.02	1	5,309.68	68.7
J-1705	5,219.56	5	5,449.20	99.5
J-962	5,123.03	2	5,325.00	87.5
J-1546	5,191.96	3	5,462.52	117.2
J-1176	5,251.90	7	5,462.52	91.3
J-1628	5,134.68	5	5,311.36	76.6

EXISTING SYSTEM
NODE TABLE

Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-1222	5,112.50	1	5,331.26	94.8
J-2071	5,133.04	4	5,325.04	83.2
J-883	5,049.64	2	5,181.93	57.3
J-1638	5,040.13	4	5,175.04	58.5
J-621	5,045.05	4	5,175.03	56.3
J-1052	5,231.79	2	5,462.19	99.8
J-1875	5,232.45	1	5,462.45	99.7
J-1665	5,208.20	5	5,462.62	110.2
J-1693	5,137.27	4	5,324.80	81.3
J-816	5,216.70	3	5,462.52	106.5
J-1853	5,216.93	6	5,462.03	106.2
J-1194	5,143.01	6	5,325.70	79.2
J-1117	5,217.88	3	5,462.56	106
J-802	5,080.32	9	5,320.27	104
J-1098	5,145.74	2	5,309.65	71
J-2035	5,067.62	7	5,310.70	105.3
J-918	5,233.17	7	5,449.30	93.7
J-798	4,999.97	6	5,178.37	77.3
J-1987	5,203.51	5	5,449.30	106.5
J-1834	5,145.31	8	5,309.73	71.2
J-1306	5,038.00	0	5,184.41	63.4
J-2078	5,181.27	0	5,449.33	116.1
J-1463	5,260.07	2	5,462.52	87.7
J-1100	5,192.19	2	5,461.59	116.7
J-1835	5,251.64	3	5,449.20	85.6
J-978	5,126.87	3	5,324.91	85.8
J-714	5,068.64	2	5,186.91	51.2
J-2108	5,146.72	6	5,309.68	70.6
J-1905	5,062.44	9	5,321.93	112.4
J-2077	5,233.40	1	5,462.06	99.1
J-725	5,148.56	1	5,332.04	79.5
J-730	5,183.04	5	5,309.68	54.9
J-1972	5,005.42	5	5,178.33	74.9
J-1758	5,170.05	2	5,462.52	126.7
J-1055	5,153.22	13	5,316.92	70.9
J-1681	5,032.22	8	5,184.29	65.9
J-2062	5,220.80	3	5,449.20	99
J-1112	5,073.36	5	5,311.76	103.3
J-1760	5,232.61	12	5,449.27	93.9
J-1105	5,215.68	6	5,463.42	107.3
J-1067	5,167.75	5	5,331.67	71
J-1990	5,211.94	4	5,449.31	102.9
J-767	5,061.06	7	5,317.76	111.2
J-1749	5,017.46	4	5,183.93	72.1
J-1616	5,156.07	1	5,309.68	66.6

EXISTING SYSTEM
NODE TABLE

Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-1015	5,136.52	2	5,331.37	84.4
J-1345	5,031.80	4	5,184.25	66.1
J-1663	5,079.63	5	5,320.27	104.3
J-1772	5,040.79	3	5,182.62	61.5
J-2060	5,078.61	2	5,321.65	105.3
J-1068	5,208.53	4	5,449.31	104.3
J-1723	5,072.18	2	5,186.69	49.6
J-1485	5,146.39	3	5,325.64	77.7
J-1150	5,164.50	6	5,313.52	64.6
J-1413	5,218.31	6	5,449.31	100.1
J-2012	5,049.28	2	5,181.92	57.5
J-2057	4,997.12	7	5,178.50	78.6
J-1503	5,103.42	5	5,310.97	89.9
J-2066	5,180.84	2	5,462.52	122.1
J-666	5,004.63	2	5,178.33	75.3
J-2087	5,193.54	5	5,449.33	110.8
J-1475	5,135.76	5	5,332.00	85
J-1344	5,150.04	31	5,331.81	78.8
J-1140	5,122.28	7	5,311.77	82.1
J-1662	5,203.25	4	5,449.30	106.6
J-1643	5,198.85	6	5,449.32	108.5
J-1701	5,048.95	2	5,181.92	57.6
J-1478	5,142.16	2	5,325.58	79.5
J-1241	5,197.41	6	5,449.39	109.2
J-687	5,181.50	2	5,336.88	67.3
J-1822	5,025.07	5	5,183.82	68.8
J-1129	5,124.68	2	5,328.03	88.1
J-1357	5,017.43	4	5,183.89	72.1
J-761	5,196.46	1	5,309.69	49.1
J-659	4,988.88	0	5,178.35	82.1
J-1038	5,010.34	0	5,179.21	73.2
J-1571	5,055.38	3	5,181.92	54.8
J-2047	5,071.62	11	5,321.71	108.4
J-1016	5,011.19	4	5,183.93	74.8
J-1568	5,016.51	7	5,183.92	72.5
J-1432	5,015.75	9	5,184.03	72.9
J-1172	5,150.43	9	5,324.93	75.6
J-1752	5,077.10	4	5,321.66	106
J-940	5,179.89	3	5,462.50	122.5
J-847	5,289.14	14	5,462.50	75.1
J-1281	5,140.32	6	5,324.63	79.9
J-1136	5,093.34	3	5,310.99	94.3
J-1577	5,038.75	27	5,183.78	62.8
J-1070	5,281.46	4	5,462.50	78.4
J-1343	5,183.66	4	5,462.49	120.8

EXISTING SYSTEM
NODE TABLE

Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-860	5,147.54	6	5,324.92	76.9
J-1326	5,106.40	23	5,328.00	96
J-1871	4,997.15	3	5,178.39	78.5
J-1513	5,192.75	1	5,461.55	116.5
J-914	5,192.19	5	5,462.48	117.1
J-619	5,071.95	2	5,310.93	103.6
J-1769	5,240.16	4	5,449.20	90.6
J-1730	5,103.61	7	5,328.00	97.2
J-1983	5,218.70	2	5,449.31	99.9
J-937	5,137.86	0	5,331.48	83.9
J-1808	5,037.04	3	5,184.39	63.8
J-1237	5,059.32	1	5,321.87	113.8
J-1754	5,231.43	0	5,449.20	94.4
J-1425	5,070.31	2	5,186.73	50.4
J-1664	5,004.11	2	5,178.33	75.5
J-1998	5,194.59	4	5,449.32	110.4
J-1186	5,151.32	2	5,324.94	75.2
J-1932	5,272.90	5	5,462.49	82.2
J-1721	5,216.05	2	5,462.43	106.8
J-1114	5,184.02	4	5,461.70	120.3
J-1970	4,999.77	4	5,178.36	77.4
J-1560	5,284.02	8	5,462.53	77.3
J-1890	5,000.07	2	5,178.36	77.3
J-836	5,203.38	15	5,449.35	106.6
J-1051	5,051.78	3	5,181.92	56.4
J-1268	5,213.45	3	5,449.25	102.2
J-1819	5,010.96	7	5,183.93	74.9
J-1190	5,205.58	16	5,461.31	110.8
J-950	5,242.36	2	5,449.20	89.6
J-1248	5,220.51	2	5,462.67	104.9
J-1676	5,006.60	0	5,178.85	74.6
J-2092	5,146.52	2	5,309.65	70.7
J-1435	5,235.73	4	5,462.66	98.3
J-652	5,127.99	4	5,324.94	85.3
J-1427	5,119.62	3	5,331.18	91.7
J-658	5,007.39	5	5,178.41	74.1
J-1230	5,018.11	4	5,183.91	71.8
J-1234	5,173.43	1	5,309.68	59
J-1197	5,141.05	2	5,331.36	82.5
J-1561	5,204.23	3	5,449.33	106.2
J-620	5,105.58	4	5,311.74	89.3
J-1384	5,044.43	2	5,182.11	59.7
J-1497	5,051.61	11	5,316.37	114.7
J-968	5,194.42	7	5,449.33	110.5
J-1880	4,988.55	0	5,178.36	82.2

EXISTING SYSTEM
NODE TABLE

Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-925	5,052.33	0	5,185.94	57.9
J-664	5,053.74	6	5,181.92	55.5
J-1316	5,220.61	30	5,449.22	99.1
J-662	5,142.16	1	5,332.00	82.3
J-603	5,162.04	2	5,335.20	75
J-650	5,089.11	3	5,310.98	96.1
J-807	5,121.62	4	5,328.01	89.4
J-1650	5,222.41	1	5,462.41	104
J-1917	5,240.78	4	5,462.90	96.2
J-797	5,195.87	1	5,461.56	115.1
J-991	5,160.76	1	5,309.69	64.5
J-1369	5,217.92	10	5,462.01	105.8
J-1298	5,234.48	11	5,461.24	98.3
J-1773	5,230.91	3	5,462.05	100.2
J-622	5,032.19	4	5,184.26	65.9
J-720	5,241.57	1	5,462.93	95.9
J-2069	5,153.48	6	5,331.68	77.2
J-1592	5,210.27	2	5,461.28	108.8
J-1257	5,076.12	2	5,310.93	101.7
J-1809	5,119.46	3	5,331.18	91.7
J-1121	5,039.21	4	5,175.03	58.9
J-1864	5,102.04	2	5,310.46	90.3
J-644	5,050.53	2	5,181.92	56.9
J-1867	5,076.25	5	5,310.71	101.6
J-1061	5,119.98	8	5,332.00	91.9
J-1092	5,129.01	2	5,325.74	85.2
J-1548	5,130.02	2	5,328.02	85.8
J-1611	5,079.17	3	5,186.55	46.5
J-632	5,022.51	4	5,183.91	69.9
J-679	5,132.91	3	5,325.76	83.6
J-942	5,159.45	10	5,331.68	74.6
J-1006	5,120.57	5	5,328.01	89.9
J-1502	5,208.73	5	5,462.38	109.9
J-743	5,099.12	6	5,310.52	91.6
J-892	5,132.45	5	5,311.32	77.5
J-2007	5,218.47	8	5,461.28	105.2
J-808	5,207.19	1	5,462.49	110.6
J-826	5,159.71	4	5,332.00	74.7
J-1446	5,221.95	3	5,449.25	98.5
J-1636	5,191.24	1	5,462.48	117.5
J-1353	5,233.83	9	5,449.26	93.3
J-1254	5,044.07	5	5,320.30	119.7
J-980	5,161.58	2	5,309.68	64.2
J-1364	5,088.95	2	5,310.98	96.2
J-1966	5,200.56	1	5,462.50	113.5

EXISTING SYSTEM
NODE TABLE

Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-1318	5,185.37	1	5,462.49	120.1
J-794	5,003.97	4	5,178.39	75.6
J-1626	5,128.05	2	5,328.02	86.6
J-625	5,217.95	3	5,449.21	100.2
J-1002	5,062.60	7	5,319.30	111.2
J-1414	5,120.61	6	5,328.01	89.9
J-726	5,022.87	9	5,184.03	69.8
J-1220	5,130.55	3	5,328.02	85.6
J-1368	5,045.80	3	5,182.62	59.3
J-1826	5,212.14	4	5,462.63	108.5
J-605	5,237.44	3	5,463.48	97.9
J-834	5,266.21	28	5,462.48	85
J-1175	5,001.05	1	5,178.74	77
J-1994	5,223.00	6	5,462.80	103.9
J-1613	5,118.05	2	5,331.12	92.3
J-1929	5,148.03	12	5,324.92	76.6
J-862	5,103.22	0	5,310.98	90
J-985	5,129.79	1	5,309.65	77.9
J-858	5,198.49	4	5,461.68	114
J-663	5,143.90	3	5,325.64	78.7
J-1328	5,021.63	2	5,184.11	70.4
J-1741	5,150.43	4	5,331.63	78.5
J-765	5,231.20	4	5,462.61	100.3
J-785	5,233.11	1	5,462.44	99.4
J-717	5,131.27	2	5,331.27	86.7
J-1863	5,163.59	8	5,309.65	63.3
J-999	5,215.59	13	5,462.33	106.9
J-1833	5,059.06	0	5,321.88	113.9
J-1511	5,111.22	1	5,319.94	90.4
J-1495	5,159.16	3	5,309.69	65.2
J-1914	5,178.64	1	5,309.68	56.8
J-1736	5,187.54	5	5,309.69	52.9
J-1302	5,080.29	3	5,186.63	46.1
J-1751	5,159.35	3	5,336.79	76.9
J-1595	5,141.37	2	5,325.72	79.9
J-1226	5,108.76	0	5,328.00	95
J-830	5,200.82	3	5,449.31	107.7
J-1025	5,030.22	6	5,183.75	66.5
J-1472	5,164.50	10	5,331.67	72.4
J-733	5,098.33	4	5,311.01	92.2
J-1969	5,010.44	5	5,178.42	72.8
J-1534	5,160.70	4	5,336.50	76.2
J-1813	5,018.34	3	5,184.05	71.8
J-1510	5,047.12	4	5,175.04	55.4
J-1896	5,014.97	3	5,183.90	73.2

EXISTING SYSTEM
NODE TABLE

Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-1097	5,113.03	9	5,331.26	94.6
J-825	5,218.70	1	5,449.31	99.9
J-1062	5,149.05	8	5,316.88	72.7
J-777	5,152.96	2	5,324.95	74.5
J-803	5,000.76	2	5,178.37	77
J-2093	5,140.23	9	5,309.83	73.5
J-1471	5,213.95	3	5,449.29	102
J-645	5,231.79	5	5,462.19	99.8
J-955	5,140.62	10	5,331.51	82.7
J-1075	5,138.36	5	5,332.00	83.9
J-1682	5,011.52	21	5,183.96	74.7
J-1940	5,051.28	8	5,316.23	114.8
J-1285	5,104.30	3	5,330.92	98.2
J-1228	5,216.93	10	5,449.31	100.7
J-1879	5,002.69	7	5,178.34	76.1
J-1617	5,167.49	7	5,309.71	61.6
J-921	5,231.89	1	5,462.42	99.9
J-1831	5,022.31	5	5,183.91	70
J-954	5,200.33	4	5,449.32	107.9
J-699	5,069.89	1	5,186.76	50.6
J-1984	5,152.56	1	5,332.00	77.8
J-1847	5,274.44	2	5,462.53	81.5
J-1892	5,159.78	3	5,336.48	76.6
J-859	5,071.07	13	5,316.76	106.5
J-1939	5,175.36	3	5,461.70	124.1
J-1794	5,130.94	2	5,331.28	86.8
J-1017	5,080.52	1	5,310.51	99.7
J-657	5,273.00	3	5,462.53	82.1
J-1000	5,085.08	4	5,310.97	97.9
J-1963	5,180.42	2	5,337.26	68
J-1779	4,994.89	5	5,178.33	79.5
J-1426	5,226.58	3	5,463.44	102.6
J-727	5,218.05	3	5,449.24	100.2
J-1895	5,129.66	2	5,331.28	87.4
J-649	5,148.56	4	5,316.92	73
J-1947	5,042.36	0	5,315.81	118.5
J-1198	5,196.26	1	5,461.56	115
J-813	5,062.14	3	5,186.74	54
J-1024	5,003.25	1	5,178.50	75.9
J-781	5,010.67	2	5,178.48	72.7
J-1849	5,194.20	4	5,461.76	115.9
J-874	5,116.18	8	5,310.64	84.3
J-1123	5,131.33	1	5,331.27	86.6
J-1261	5,172.87	1	5,309.69	59.3
J-809	5,130.09	2	5,331.27	87.2

EXISTING SYSTEM
NODE TABLE

Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-907	5,032.32	5	5,184.00	65.7
J-1787	5,123.95	5	5,324.61	86.9
J-1191	5,137.90	8	5,324.91	81
J-1286	5,227.13	5	5,449.25	96.2
J-1270	5,099.74	1	5,313.22	92.5
J-1633	5,053.88	6	5,316.64	113.9
J-1479	5,056.47	2	5,181.92	54.4
J-814	5,188.75	10	5,449.38	112.9
J-2041	5,075.79	5	5,312.14	102.4
J-1079	5,139.31	4	5,325.76	80.8
J-1803	5,127.04	8	5,309.65	79.1
J-1784	5,042.66	4	5,182.11	60.4
J-628	5,209.06	2	5,462.62	109.9
J-1202	5,180.35	7	5,336.82	67.8
J-1487	5,254.40	4	5,462.45	90.1
J-1209	5,080.02	1	5,186.55	46.2
J-1480	5,164.50	1	5,309.69	62.9
J-1658	5,211.22	5	5,449.33	103.2
J-600	5,219.03	2	5,462.36	105.4
J-2063	5,010.47	4	5,178.41	72.8
J-1386	5,094.69	1	5,310.71	93.6
J-1235	5,171.36	0	5,309.69	59.9
J-933	5,066.34	0	5,181.92	50.1
J-1429	5,004.99	6	5,178.38	75.1
J-1608	5,057.52	12	5,181.92	53.9
J-1246	5,047.77	9	5,175.07	55.2
J-1589	5,136.95	8	5,325.61	81.7
J-1712	5,128.55	4	5,324.91	85.1
J-976	5,171.62	2	5,309.69	59.8
J-772	5,147.84	7	5,325.64	77
J-1778	5,080.42	4	5,320.26	103.9
J-1065	5,052.92	10	5,181.92	55.9
J-1076	5,139.44	40	5,325.56	80.6
J-1481	5,224.08	2	5,462.06	103.1
J-1855	5,133.27	9	5,324.56	82.9
J-1003	5,063.72	3	5,312.36	107.7
J-757	5,092.39	2	5,310.98	94.7
J-1756	5,161.16	1	5,309.68	64.4
J-1240	5,264.83	7	5,462.48	85.6
J-1455	5,200.00	7	5,449.36	108
J-1653	5,060.67	7	5,312.36	109.1
J-850	5,266.90	2	5,463.84	85.3
J-746	5,231.04	7	5,449.21	94.5
J-1887	5,000.46	4	5,178.37	77.1
J-1282	5,049.22	2	5,181.93	57.5

EXISTING SYSTEM
NODE TABLE

Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-844	5,019.07	21	5,184.06	71.5
J-741	5,030.84	99	5,183.74	66.3
J-1283	5,210.93	10	5,461.31	108.5
J-1945	5,198.43	1	5,461.65	114.1
J-1391	5,248.26	1	5,462.44	92.8
J-2053	5,189.60	5	5,449.47	112.6
J-1374	5,095.61	2	5,330.90	102
J-1116	5,068.51	5	5,187.11	51.4
J-1539	5,014.77	1	5,183.91	73.3
J-1923	5,154.69	1	5,332.00	76.8
J-967	5,212.80	2	5,462.00	108
J-1637	5,221.36	5	5,449.31	98.8
J-1066	5,227.53	1	5,462.12	101.6
J-1134	5,107.75	6	5,319.57	91.8
J-2030	5,089.87	7	5,310.81	95.7
J-1771	5,009.88	5	5,178.50	73.1
J-737	5,067.75	3	5,310.96	105.4
J-2085	5,213.29	1	5,462.00	107.8
J-1400	5,139.70	1	5,309.65	73.6
J-1720	5,037.24	1	5,184.29	63.7
J-1012	5,069.92	2	5,186.62	50.6
J-1630	5,144.52	1	5,331.33	80.9
J-722	5,174.94	2	5,462.52	124.6
J-1262	5,120.90	8	5,310.46	82.1
J-690	5,258.56	3	5,463.59	88.8
J-806	5,078.35	0	5,186.54	46.9
J-903	5,109.49	1	5,310.71	87.2
J-1287	5,007.91	9	5,178.36	73.9
J-2081	5,123.89	2	5,325.04	87.2
J-1370	5,198.26	1	5,461.66	114.1
J-1737	5,235.99	0	5,462.42	98.1
J-1674	5,280.35	9	5,462.49	78.9
J-1060	5,262.17	3	5,462.52	86.8
J-1208	5,154.63	4	5,325.00	73.8
J-1387	5,122.84	4	5,324.66	87.5
J-624	5,154.30	0	5,309.68	67.3
J-2009	5,088.13	2	5,330.90	105.2
J-1410	5,126.32	3	5,325.81	86.4
J-347	5,156.89	40	5,324.99	72.8
J-343	5,011.55	0	5,182.58	74.1
J-342	5,198.72	0	5,339.31	60.9
J-341	5,199.15	0	5,339.31	60.7
J-340	5,199.15	0	5,339.31	60.7
J-338	5,177.79	2	5,309.65	57.1
J-337	5,183.63	6	5,309.67	54.6

EXISTING SYSTEM
NODE TABLE

Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-336	5,133.70	4	5,309.65	76.2
J-335	5,160.21	5	5,309.65	64.8
J-334	5,163.26	9	5,463.42	130.1
J-332	5,176.84	5	5,463.42	124.2
J-333	5,177.36	9	5,463.42	124
J-330	5,294.49	0	5,467.00	74.7
J-329	5,294.49	0	5,467.00	74.7
J-326	5,132.61	3	5,313.47	78.4
J-325	5,126.45	3	5,313.72	81.1
J-324	5,097.44	0	5,317.38	95.3
J-321	5,022.31	13	5,183.86	70
J-320	5,228.94	5	5,462.45	101.2
J-319	5,180.02	4	5,461.71	122.1
J-318	5,085.90	0	5,319.96	101.4
J-314	5,056.93	16	5,325.44	116.3
J-312	5,073.43	9	5,320.27	107
J-310	5,138.45	6	5,311.25	74.9
J-305	5,126.35	0	5,324.90	86
J-301	5,110.00	0	5,332.18	96.3
J-299	5,123.40	4	5,309.35	80.6
J-298	5,166.80	2	5,308.76	61.5
J-294	5,109.26	0	5,310.37	87.1
J-293	5,179.14	2	5,308.62	56.1
J-290	5,297.31	0	5,466.98	73.5
J-289	5,026.05	6	5,183.82	68.4
J-273	4,990.72	3	5,178.34	81.3
J-272	5,017.03	0	5,183.26	72
J-251	5,030.98	4	5,183.86	66.2
J-250	5,029.76	1	5,178.56	64.5
J-241	5,148.69	32	5,318.80	73.7
J-237	5,071.26	0	5,320.33	107.9
J-231	5,037.37	0	5,321.67	123.2
J-230	5,084.85	0	5,320.36	102
J-229	5,111.91	39	5,320.43	90.4
J-209	5,227.53	0	5,312.32	36.7
J-208	5,157.61	0	5,313.96	67.7
J-207	5,073.40	4	5,320.29	107
J-204	5,203.22	0	5,310.74	46.6
J-199	5,111.62	1	5,328.01	93.8
J-197	5,078.15	8	5,326.65	107.7
J-194	5,102.27	0	5,318.34	93.6
J-181	5,200.40	0	5,452.81	109.4
J-180	5,200.23	0	5,452.81	109.4
J-179	5,200.23	0	5,452.81	109.4
J-178	5,200.04	0	5,452.81	109.5

EXISTING SYSTEM
NODE TABLE

Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-177	5,199.71	0	5,452.81	109.7
J-176	5,199.71	0	5,452.81	109.7
J-174	5,087.86	3	5,310.72	96.6
J-173	5,141.83	5	5,311.25	73.4
J-172	5,103.15	1	5,313.22	91
J-170	5,095.71	5	5,311.26	93.4
J-167	5,152.69	5	5,313.52	69.7
J-165	5,159.29	3	5,313.52	66.8
J-158	5,294.36	0	5,467.01	74.8
J-133	5,294.36	0	5,467.00	74.8
J-132	5,040.03	0	5,184.52	62.6
J-118	5,040.03	3	5,184.51	62.6
J-67	5,052.99	45	5,184.75	57.1
J-42	5,197.25	0	5,339.12	61.5
J-41	5,190.00	0	5,192.90	1.3
J-38	5,198.36	0	5,339.31	61.1
J-30	5,190.00	0	5,192.98	1.3
J-29	5,112.01	4	5,328.00	93.6
J-26	5,127.46	9	5,331.26	88.3
J-20	5,136.13	1	5,331.45	84.6
J-19	5,148.30	13	5,334.09	80.5
J-18	5,124.74	2	5,328.21	88.2
J-17	5,131.70	1	5,328.02	85.1
J-16	5,031.01	26	5,184.08	66.3
J-15	5,053.02	0	5,184.85	57.1
J-11	5,198.92	3	5,449.86	108.7
J-169	5,256.99	42	5,463.42	89.4
J-168	5,161.49	1	5,332.19	74
J-164	5,161.81	2	5,332.00	73.7
J-163	5,156.83	1	5,332.09	75.9
J-162	5,185.47	0	5,337.61	65.9
J-160	5,157.61	27	5,325.00	72.5
J-159	5,153.87	10	5,325.21	74.2
J-157	5,155.61	4	5,332.06	76.5
J-156	5,160.83	8	5,331.88	74.1
J-155	5,096.85	1	5,320.51	96.9
J-154	5,044.85	0	5,320.77	119.6
J-153	5,047.48	0	5,321.46	118.7
J-152	5,010.96	8	5,179.21	72.9
J-151	5,009.29	0	5,182.73	75.2
J-150	5,176.22	0	5,336.46	69.4
J-149	5,011.98	7	5,178.57	72.2
J-148	5,018.61	3	5,183.37	71.4
J-147	5,105.00	2	5,332.18	98.4
J-146	5,076.02	13	5,317.16	104.5

EXISTING SYSTEM
NODE TABLE

Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-145	5,014.34	6	5,183.92	73.5
J-144	5,121.89	2	5,328.03	89.3
J-143	5,029.66	26	5,184.23	67
J-142	5,100.79	6	5,328.72	98.8
J-141	5,133.07	11	5,331.60	86
J-140	5,131.76	2	5,331.43	86.5
J-139	5,160.70	4	5,332.59	74.5
J-138	5,185.67	4	5,336.95	65.5
J-137	5,184.02	4	5,337.33	66.4
J-136	5,148.00	3	5,332.59	80
J-135	5,151.15	1	5,332.40	78.5
J-134	5,150.30	10	5,335.20	80.1
J-131	5,172.64	2	5,313.63	61.1
J-130	5,187.50	0	5,313.26	54.5
J-129	5,020.18	0	5,322.15	130.8
J-128	5,039.93	0	5,184.52	62.7
J-127	5,026.94	6	5,183.82	68
J-126	5,011.95	4	5,183.93	74.5
J-125	5,131.70	0	5,191.50	25.9
J-124	5,122.02	3	5,328.07	89.3
J-123	5,082.91	0	5,321.50	103.4
J-122	5,073.82	1	5,322.04	107.6
J-121	4,995.97	16	5,178.50	79.1
J-120	5,089.18	16	5,327.62	103.3
J-119	5,120.44	0	5,191.79	30.9
J-117	5,153.15	1	5,332.25	77.6
J-116	5,162.01	1	5,332.19	73.7
J-115	5,196.79	14	5,449.56	109.5
J-114	5,200.33	0	5,452.81	109.4
J-113	5,220.38	5	5,449.23	99.2
J-112	5,213.91	16	5,462.27	107.6
J-111	5,277.63	5	5,464.33	80.9
J-109	5,133.70	5	5,310.01	76.4
J-110	5,190.06	7	5,312.66	53.1
J-108	5,152.30	30	5,313.95	70
J-107	5,198.79	0	5,313.97	49.9
J-106	5,143.38	5	5,317.18	75.3
J-105	5,089.50	5	5,320.57	100.1
J-104	5,092.13	0	5,320.57	99
J-103	5,069.89	0	5,320.32	108.5
J-102	5,078.81	13	5,320.27	104.6
J-101	5,060.70	4	5,320.28	112.5
J-100	5,051.68	13	5,183.90	57.3
J-99	5,029.01	7	5,183.90	67.1
J-98	5,009.88	13	5,183.92	75.4

EXISTING SYSTEM
NODE TABLE

Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-97	4,997.35	0	5,178.56	78.5
J-96	4,991.80	29	5,178.41	80.9
J-95	5,010.14	5	5,178.39	72.9
J-94	4,998.23	4	5,178.37	78.1
J-93	5,005.52	40	5,178.35	74.9
J-92	4,989.90	6	5,178.39	81.7
J-91	5,007.71	8	5,178.36	73.9
J-90	5,069.16	1	5,186.45	50.8
J-89	5,048.00	0	5,185.35	59.5
J-88	5,046.92	0	5,185.35	60
J-87	5,035.14	37	5,184.09	64.5
J-86	5,032.48	4	5,184.01	65.7
J-85	5,025.07	14	5,184.12	68.9
J-84	5,053.38	0	5,185.04	57
J-83	5,070.84	12	5,326.04	110.6
J-81	5,052.60	0	5,184.77	57.3
J-80	5,066.87	0	5,191.12	53.8
J-79	5,053.09	0	5,185.08	57.2
J-78	5,067.56	0	5,191.12	53.5
J-76	5,104.04	0	5,317.55	92.5
J-75	5,097.02	0	5,316.93	95.3
J-74	5,098.07	0	5,316.93	94.8
J-73	5,101.68	0	5,317.55	93.5
J-72	5,148.85	7	5,324.99	76.3
J-71	5,142.72	5	5,325.88	79.4
J-70	5,127.96	3	5,328.66	87
J-69	5,073.99	9	5,327.07	109.7
J-68	5,067.52	0	5,326.13	112.1
J-66	5,111.55	3	5,330.86	95
J-64	5,100.79	4	5,332.18	100.3
J-63	5,136.81	0	5,332.42	84.8
J-62	5,195.54	0	5,338.85	62.1
J-61	5,146.49	0	5,192.33	19.9
J-60	5,190.00	0	5,192.97	1.3
J-59	5,185.63	0	5,192.78	3.1
J-58	5,163.62	7	5,335.20	74.3
J-57	5,197.08	4	5,449.76	109.5
J-56	5,236.29	2	5,449.20	92.3
J-55	5,236.03	2	5,449.20	92.4
J-54	5,244.75	5	5,449.20	88.6
J-53	5,236.29	5	5,449.20	92.3
J-52	5,251.22	3	5,449.20	85.8
J-51	5,231.10	6	5,449.20	94.5
J-50	5,220.70	8	5,449.22	99
J-48	5,068.54	0	5,175.24	46.2

EXISTING SYSTEM
NODE TABLE

Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-46	5,296.36	0	5,307.24	4.7
J-45	5,295.97	0	5,307.24	4.9
J-44	5,295.60	0	5,467.00	74.3
J-43	5,290.78	0	5,306.71	6.9
J-40	5,188.16	6	5,462.45	118.9
J-39	5,224.28	1	5,462.16	103.1
J-37	5,096.56	0	5,313.39	94
J-36	5,057.88	3	5,312.56	110.4
J-35	5,091.21	0	5,310.91	95.2
J-34	5,176.48	14	5,309.70	57.7
J-33	5,236.71	4	5,462.44	97.8
J-32	5,215.29	17	5,462.15	107
J-31	5,200.17	10	5,461.89	113.4
J-28	5,239.57	2	5,465.23	97.8
J-27	5,289.57	0	5,306.79	7.5
J-25	5,290.58	0	5,306.72	7
J-24	5,296.43	0	5,307.23	4.7
J-22	5,288.91	0	5,306.77	7.7
J-21	5,296.06	0	5,307.24	4.8
J-13	5,137.31	0	5,192.12	23.8
J-12	5,066.87	16	5,326.09	112.3
J-10	5,020.02	9	5,322.22	130.9
J-8	5,232.25	0	5,309.08	33.3
J-7	5,287.14	0	5,307.57	8.9
J-6	5,182.42	2	5,312.49	56.4
J-5	5,232.09	0	5,307.84	32.8
J-4	5,110.96	3	5,310.06	86.3
J-387	5,106.70	7	5,315.13	90.3
J-403	5,187.08	0	5,313.27	54.7
J-502	5,216.18	5	5,462.45	106.7
J-1	5,160.00	0	5,309.79	64.9
J-2	5,160.00	0	5,309.81	64.9
J-3	5,131.00	0	5,310.25	77.7
J-4	5,128.24	0	5,310.74	79.1
J-5	5,130.00	0	5,310.25	78.1
J-7	5,210.00	0	5,462.44	109.4
J-8	5,200.00	0	5,462.44	113.7
J-9	5,200.00	0	5,462.44	113.7
J-10	5,200.00	0	5,462.45	113.7
J-11	5,190.00	0	5,462.45	118.1

EXISTING SYSTEM
PIPE TABLE

Label	Length (ft)	Start Node	Stop Node	Diameter (in)	Hazen-Williams C	Flow (gpm)
PRV-EC4-A	6.00	J-1348	PRV-EC4	99	110	0
PRV-EC4-B	6.00	PRV-EC4	J-933	99	110	0
PRV-CS-A	0.00	1616-A	PRV-CS	99	110	612
PRV-CS-B	0.00	PRV-CS	1616-B	99	110	612
PRV-GV1-A	0.00	1615-A	PRV-GV1	99	110	0
PRV-GV1-B	0.00	PRV-GV1	1615-B	99	110	0
PRV-GV2-A	0.00	1614-A	PRV-GV2	99	110	69
PRV-GV2-B	0.00	PRV-GV2	1614-B	99	110	69
PRV-EC3-A	0.00	1613-A	PRV-EC3	99	110	0
PRV-EC3-B	0.00	PRV-EC3	1613-B	99	110	0
PRV-EC2-A	7.00	1612-A	PRV-EC2	99	110	0
PRV-EC2-B	7.00	PRV-EC2	1612-B	99	110	0
PRV-EC1-A	0.00	1611-A	PRV-EC1	99	110	0
PRV-EC1-B	0.00	PRV-EC1	1611-B	99	110	0
PRV-VR4-A	0.00	1609-A	PRV-VR4	99	110	0
PRV-VR4-B	0.00	PRV-VR4	1609-B	99	110	0
PRV-NR2-A	0.00	1606-A	PRV-NR2	99	110	0
PRV-NR2-B	0.00	PRV-NR2	1606-B	99	110	0
PRV-VR1-A	0.00	1601-A	PRV-VR1	99	110	0
PRV-VR1-B	0.00	PRV-VR1	1601-B	99	110	0
PRV-VR3-A	0.00	1600-A	PRV-VR3	99	110	0
PRV-VR3-B	0.00	PRV-VR3	1600-B	99	110	0
PRV-OT-A	3.00	1598-A	PRV-EC6	99	110	0
PRV-OT-B	3.00	PRV-EC6	1598-B	99	110	0
PRV-NR1-A	0.00	1597-A	PRV-NR1	99	110	0
PRV-NR1-B	0.00	PRV-NR1	1597-B	99	110	0
PRV-VR2-A	0.00	1596-A	PRV-VR2	99	110	0
PRV-VR2-B	0.00	PRV-VR2	1596-B	99	110	0
PMP-6-A	22.00	1586-A	PMP-6	99	110	267
PMP-6-B	22.00	PMP-6	1586-B	99	110	267
PMP-2-A	10.00	1582-A	PMP-2	99	110	975
PMP-2-B	10.00	PMP-2	1582-B	99	110	975
PMP-1-A	13.00	1581-A	PMP-1	99	110	149
PMP-1-B	13.00	PMP-1	1581-B	99	110	149
PMP-11-A	13.00	1591-A	PMP-11	99	110	0
PMP-11-B	13.00	PMP-11	1591-B	99	110	0
PMP-10-A	15.00	1590-A	PMP-10	99	110	0
PMP-10-B	15.00	PMP-10	1590-B	99	110	0
PMP-9-A	12.00	1589-A	PMP-9	99	110	0
PMP-9-B	12.00	PMP-9	1589-B	99	110	0
PMP-8-A	14.00	1588-A	PMP-8	99	110	0
PMP-8-B	14.00	PMP-8	1588-B	99	110	0
PMP-5-A	13.00	1585-A	PMP-5	99	110	0
PMP-5-B	13.00	PMP-5	1585-B	99	110	0
PMP-4-A	11.00	1584-A	PMP-4	99	110	0

EXISTING SYSTEM
PIPE TABLE

Label	Length (ft)	Start Node	Stop Node	Diameter (in)	Hazen-Williams C	Flow (gpm)
PMP-4-B	11.00	PMP-4	1584-B	99	110	0
PMP-3-A	9.00	1583-A	PMP-3	99	110	0
PMP-3-B	9.00	PMP-3	1583-B	99	110	0
PMP-13-A	13.00	1593-A	PMP-13	99	110	4,313
PMP-13-B	13.00	PMP-13	1593-B	99	110	4,313
PMP-12-A	15.00	1592-A	PMP-12	99	110	5,544
PMP-12-B	15.00	PMP-12	1592-B	99	110	5,544
PMP-7-A	15.00	1587-A	PMP-7	99	110	267
PMP-7-B	15.00	PMP-7	1587-B	99	110	267
P-2354	252.00	J-1012	J-1425	12	110	-387
P-1477	143.00	J-1687	J-2002	12	110	-12
P-1905	151.00	J-761	J-853	8	110	27
P-1432	60.00	J-1825	J-625	8	110	3
P-2259	59.00	J-853	J-1355	8	110	22
P-2362	181.00	J-1182	J-1581	8	110	73
P-1140	719.00	J-1428	J-1962	6	110	0
P-1710	63.00	J-1843	J-742	8	110	16
P-2378	385.00	J-1486	J-2047	8	110	70
P-1423	136.00	J-619	J-1378	8	110	-49
P-1279	378.00	J-1404	J-1867	8	110	5
P-2173	277.00	J-1703	J-1280	12	110	74
P-1241	58.00	J-1946	J-868	8	110	25
P-1476	407.00	J-1546	J-816	8	110	-18
P-1886	95.00	J-1628	J-892	8	110	172
P-1391	253.00	J-2066	J-1535	8	110	-28
P-2571	51.00	J-2009	J-1684	6	110	20
P-2326	160.00	J-1186	J-1586	8	110	56
P-1810	59.00	J-1743	J-608	8	110	19
P-2211	234.00	J-722	J-1131	8	110	30
P-2616	396.00	J-1569	J-945	8	110	-51
P-1897	468.00	J-1495	J-1938	8	110	-26
P-1720	59.00	J-896	J-1307	8	110	20
P-2040	447.00	J-765	J-1176	8	110	86
P-1319	264.00	J-948	J-1686	8	110	14
P-2135	478.00	J-1884	J-690	8	110	-7
P-2319	449.00	J-1779	J-655	8	110	8
P-2163	359.00	J-1939	J-858	8	110	46
P-1893	136.00	J-1963	J-137	12	110	-421
P-1970	73.00	J-1708	J-1315	8	110	23
P-2431	104.00	J-1928	J-754	8	110	2
P-2589	24.00	J-1135	J-1551	6	110	-35
P-2270	190.00	J-2081	J-1926	8	110	39
P-1499	72.00	J-824	J-1226	8	110	0
P-2561	271.00	J-1065	J-1469	8	110	5
P-1249	335.00	J-1844	J-1376	8	110	49

EXISTING SYSTEM
PIPE TABLE

Label	Length (ft)	Start Node	Stop Node	Diameter (in)	Hazen-Williams C	Flow (gpm)
P-1544	12.00	J-1428	J-1810	12	110	48
P-1065	60.00	J-2063	J-1969	8	110	-65
P-2088	358.00	J-658	J-2056	8	110	-4
P-2217	266.00	J-1476	J-1850	8	110	11
P-2033	273.00	J-1092	J-1873	8	110	54
P-2322	227.00	J-1136	J-1642	8	110	6
P-2009	57.00	J-771	J-1182	8	110	283
P-1278	252.00	J-1123	J-1895	8	110	-27
P-2133	386.00	J-815	J-1220	8	110	18
P-2433	249.00	J-866	J-2015	8	110	-36
P-1166	431.00	J-1016	J-1428	12	110	53
P-2065	303.00	J-1744	J-1750	8	110	-99
P-1715	468.00	J-1497	J-1940	8	110	105
P-1167	315.00	J-1350	J-1934	8	110	11
P-1756	44.00	J-1535	J-1894	8	110	-29
P-1398	192.00	J-2077	J-1078	8	110	-59
P-1755	53.00	J-2076	J-952	8	110	-187
P-944	27.00	J-1886	J-956	8	110	3
P-1570	220.00	J-1811	J-1760	6	110	12
P-2522	390.00	J-2024	J-1681	8	110	-10
P-1459	57.00	J-1345	J-622	8	110	-85
P-1263	271.00	J-767	J-749	8	110	15
P-996	422.00	J-747	J-1654	8	110	38
P-1991	466.00	J-1829	J-629	8	110	-121
P-2488	241.00	J-1696	J-54	12	110	-7
P-1268	121.00	J-1396	J-1493	8	110	5
P-1859	55.00	J-706	J-722	8	110	32
P-1313	284.00	J-1219	J-1623	8	110	3
P-1792	311.00	J-625	J-1035	8	110	0
P-1914	108.00	J-1580	J-1923	8	110	1
P-1985	389.00	J-1521	J-1886	12	110	59
P-1187	508.00	J-90	J-806	8	110	-93
P-2061	384.00	J-980	J-1930	8	110	13
P-1413	474.00	J-1644	J-2040	8	110	126
P-1975	182.00	J-2074	J-1063	8	110	-15
P-1039	415.00	J-1276	J-1688	8	110	21
P-2155	437.00	J-2099	J-983	8	110	127
P-2110	54.00	J-1266	J-2086	8	110	7
P-1898	397.00	J-1839	J-736	8	110	26
P-2231	559.00	J-871	J-1762	8	110	217
P-2607	197.00	J-1033	J-2063	8	110	-44
P-1225	74.00	J-1833	J-1237	12	110	205
P-2350	125.00	J-2023	J-1118	8	110	-10
P-1136	673.00	J-1884	J-1091	8	110	-126
P-1172	55.00	J-1658	J-1734	8	110	7

EXISTING SYSTEM
PIPE TABLE

Label	Length (ft)	Start Node	Stop Node	Diameter (in)	Hazen-Williams C	Flow (gpm)
P-2640	471.00	J-798	J-1299	8	110	-15
P-2422	179.00	J-1712	J-978	8	110	30
P-1473	464.00	J-2092	J-697	8	110	0
P-2069	472.00	J-1682	J-1346	8	110	51
P-1233	312.00	J-796	J-1630	8	110	75
P-1079	272.00	J-1981	J-822	12	110	191
P-2060	374.00	J-126	J-1819	12	110	69
P-2443	32.00	J-1918	J-1471	8	110	-66
P-965	493.00	J-1721	J-1333	8	110	17
P-2081	328.00	J-1284	J-646	8	110	-1
P-2559	486.00	J-1426	J-1806	8	110	35
P-1472	91.00	J-1412	J-1799	8	110	87
P-2180	493.00	J-662	J-1061	8	110	8
P-1934	199.00	J-1966	J-808	8	110	38
P-2409	278.00	J-639	J-950	8	110	1
P-2570	70.00	J-995	J-1844	8	110	52
P-2573	45.00	J-1754	J-1059	8	110	18
P-954	61.00	J-1106	J-1885	8	110	15
P-2568	26.00	J-1850	J-660	8	110	-72
P-2588	48.00	J-718	J-1207	8	110	-9
P-2537	469.00	J-1418	J-794	8	110	11
P-1800	540.00	J-757	J-1257	8	110	52
P-2237	336.00	J-1492	J-2035	8	110	70
P-988	53.00	J-1077	J-1147	8	110	6
P-2000	278.00	J-1198	J-1603	8	110	122
P-2344	420.00	J-919	J-1321	8	110	4
P-2193	259.00	J-1131	J-1221	8	110	44
P-1691	57.00	J-1902	J-765	8	110	90
P-2465	61.00	J-1669	J-1311	8	110	0
P-1827	347.00	J-1329	J-944	8	110	6
P-2197	291.00	J-1279	J-149	8	110	-95
P-924	525.00	J-1763	J-702	8	110	19
P-1145	420.00	J-53	J-1696	12	110	2
P-2489	298.00	J-863	J-1482	8	110	-69
P-2353	226.00	J-1603	J-1944	8	110	118
P-2299	216.00	J-1463	J-1591	8	110	42
P-1098	464.00	J-1803	J-2101	8	110	2
P-1702	231.00	J-1494	J-1387	8	110	201
P-1199	377.00	J-1104	J-1515	8	110	129
P-1781	54.00	J-1517	J-1884	8	110	-128
P-2268	450.00	J-1580	J-1984	8	110	-1
P-975	122.00	J-1302	J-1707	8	110	-98
P-2160	414.00	J-623	J-1354	8	110	51
P-1959	1,222.00	J-763	J-1850	8	110	-78
P-908	112.00	J-152	J-1038	8	110	0

EXISTING SYSTEM
PIPE TABLE

Label	Length (ft)	Start Node	Stop Node	Diameter (in)	Hazen-Williams C	Flow (gpm)
P-1595	399.00	J-1011	J-134	8	110	-9
P-2141	28.00	J-1081	J-863	8	110	-162
P-2048	284.00	J-868	J-737	8	110	15
P-2394	353.00	J-1802	J-807	8	110	0
P-1617	291.00	J-1769	J-2074	8	110	-6
P-2016	169.00	J-663	J-1485	8	110	10
P-2546	463.00	J-942	J-1067	8	110	15
P-1532	136.00	J-1218	J-1963	12	110	-419
P-2492	345.00	J-812	J-1218	12	110	-405
P-1441	313.00	J-2041	J-748	8	110	140
P-2019	234.00	J-1167	J-734	8	110	4
P-933	157.00	J-1069	J-686	8	110	8
P-2533	472.00	J-1344	J-926	8	110	97
P-903	120.00	J-1899	J-138	8	110	-15
P-2239	458.00	J-892	J-2031	8	110	167
P-2520	224.00	J-1906	J-2000	8	110	55
P-1606	391.00	J-1813	J-1340	8	110	-75
P-2494	93.00	J-51	J-1437	8	110	9
P-1253	376.00	J-1334	J-1135	6	110	-49
P-1980	207.00	J-1238	J-1124	8	110	10
P-2320	698.00	J-1744	J-1017	8	110	25
P-1088	99.00	J-1767	J-2093	8	110	60
P-2120	129.00	J-1308	J-1595	8	110	311
P-1899	327.00	J-1240	J-1654	8	110	23
P-931	271.00	J-830	J-1683	8	110	-12
P-2597	284.00	J-1123	J-1538	6	110	2
P-1090	346.00	J-1229	J-1641	8	110	2
P-963	209.00	J-1944	J-784	8	110	114
P-2037	379.00	J-689	J-1863	8	110	8
P-1928	258.00	J-1271	J-1764	8	110	27
P-2109	303.00	J-1894	J-706	8	110	-17
P-1663	55.00	J-1479	J-1916	8	110	7
P-1213	157.00	J-1051	J-1065	8	110	6
P-2360	273.00	J-1989	J-834	8	110	24
P-1262	254.00	J-1362	J-1769	8	110	2
P-2401	28.00	J-737	J-1840	8	110	12
P-2361	32.00	J-887	J-1302	8	110	-95
P-1860	59.00	J-1970	J-1890	8	110	-22
P-2240	400.00	J-145	J-1346	8	110	-21
P-1966	332.00	J-829	J-1891	6	110	-10
P-2191	832.00	J-1348	J-1752	12	110	161
P-2542	284.00	J-1098	J-336	8	110	-11
P-1846	317.00	J-714	J-1116	12	110	-475
P-1046	277.00	J-1480	J-1350	8	110	13
P-2080	358.00	J-1386	J-903	8	110	1

EXISTING SYSTEM
PIPE TABLE

Label	Length (ft)	Start Node	Stop Node	Diameter (in)	Hazen-Williams C	Flow (gpm)
P-2455	199.00	J-846	J-1988	8	110	10
P-1884	458.00	J-1627	J-1492	8	110	76
P-2629	234.00	J-1167	J-1571	8	110	5
P-1542	144.00	J-1544	J-1972	8	110	20
P-2535	310.00	J-662	J-1657	8	110	-19
P-1383	118.00	J-1942	J-783	8	110	6
P-2280	317.00	J-1254	J-1128	8	110	246
P-1688	150.00	J-1645	J-612	8	110	3
P-2008	289.00	J-1209	J-887	8	110	-96
P-1129	18.00	J-1251	J-1668	8	110	-28
P-2219	339.00	J-874	J-1376	8	110	55
P-1636	354.00	J-1895	J-707	8	110	21
P-1076	41.00	J-1116	J-1104	8	110	132
P-2558	227.00	J-1814	J-603	8	110	9
P-1377	349.00	J-1203	J-699	8	110	43
P-1504	438.00	J-995	J-1499	8	110	6
P-1772	292.00	J-1441	J-716	8	110	-21
P-2577	750.00	J-2016	J-1697	8	110	-30
P-2419	57.00	J-1346	J-1749	8	110	25
P-1750	419.00	J-784	J-1592	8	110	50
P-1977	184.00	J-1871	J-1418	8	110	14
P-1739	231.00	J-699	J-1314	8	110	106
P-1559	99.00	J-2085	J-967	8	110	2
P-1271	30.00	J-1551	J-1898	6	110	24
P-1945	243.00	J-1651	J-1981	12	110	196
P-1731	297.00	J-1513	J-1704	8	110	143
P-1546	90.00	J-1297	J-1710	8	110	-160
P-1174	285.00	J-945	J-1068	8	110	0
P-2243	66.00	J-668	J-983	8	110	-228
P-2585	506.00	J-2035	J-995	8	110	64
P-1540	216.00	J-637	J-1839	8	110	33
P-925	192.00	J-289	J-1465	8	110	-15
P-1494	465.00	J-1904	J-1894	8	110	13
P-2290	402.00	J-1262	J-1864	8	110	6
P-1768	62.00	J-803	J-1887	8	110	-5
P-2202	517.00	J-1700	J-2011	8	110	-58
P-1365	338.00	J-1630	J-1968	8	110	23
P-2519	163.00	J-858	J-1621	8	110	-19
P-1212	296.00	J-2060	J-1925	12	110	215
P-983	251.00	J-1175	J-667	8	110	-65
P-1421	235.00	J-605	J-1517	8	110	-125
P-1862	153.00	J-1489	J-1862	8	110	96
P-2272	509.00	J-1369	J-1773	8	110	-51
P-2294	57.00	J-808	J-1212	8	110	25
P-2331	62.00	J-950	J-1349	8	110	-1

EXISTING SYSTEM
PIPE TABLE

Label	Length (ft)	Start Node	Stop Node	Diameter (in)	Hazen-Williams C	Flow (gpm)
P-1896	83.00	J-2025	J-848	8	110	4
P-1409	136.00	J-172	J-1270	8	110	4
P-1520	403.00	J-1158	J-1664	8	110	-1
P-1022	244.00	J-1362	J-1059	8	110	-10
P-2309	371.00	J-1424	J-698	8	110	8
P-2605	296.00	J-998	J-1040	8	110	38
P-1725	562.00	J-1683	J-1998	8	110	-20
P-2170	276.00	J-1421	J-694	8	110	15
P-2371	377.00	J-1285	J-1698	8	110	41
P-2562	56.00	J-1131	J-1546	8	110	-16
P-1605	49.00	J-2031	J-733	8	110	53
P-1119	314.00	J-1017	J-1522	8	110	49
P-953	240.00	J-1553	J-1042	8	110	-18
P-1031	52.00	J-1796	J-2095	8	110	-3
P-1722	129.00	J-1968	J-675	8	110	21
P-2370	240.00	J-1139	J-1134	8	110	-56
P-2518	57.00	J-1108	J-1614	8	110	4
P-1642	536.00	J-1411	J-1711	8	110	-22
P-2400	443.00	J-1409	J-1796	8	110	2
P-1644	190.00	J-1198	J-1945	8	110	-141
P-2547	126.00	J-951	J-1351	8	110	3
P-1164	84.00	J-820	J-1978	8	110	30
P-2108	225.00	J-1046	J-1077	8	110	11
P-2448	253.00	J-1589	J-1937	8	110	-8
P-2427	521.00	J-1741	J-2050	8	110	23
P-1388	72.00	J-1333	J-1737	8	110	16
P-1919	401.00	J-1874	J-925	8	110	0
P-2424	231.00	J-1561	J-1908	8	110	-65
P-2507	47.00	J-1703	J-1694	8	110	3
P-2178	345.00	J-2087	J-2078	8	110	0
P-2453	125.00	J-921	J-1978	8	110	13
P-2563	355.00	J-1248	J-1665	8	110	74
P-935	67.00	J-1330	J-941	8	110	3
P-1363	292.00	J-2025	J-896	8	110	7
P-1191	108.00	J-658	J-1162	8	110	38
P-964	57.00	J-1425	J-699	12	110	-389
P-2337	526.00	J-986	J-1491	8	110	37
P-2056	85.00	J-113	J-1316	6	110	30
P-2115	514.00	J-1420	J-1881	8	110	5
P-1921	47.00	J-1227	J-1636	8	110	17
P-1623	400.00	J-1568	J-931	8	110	-21
P-1439	407.00	J-2095	J-2104	8	110	2
P-2002	141.00	J-966	J-1368	8	110	5
P-2452	341.00	J-1205	J-882	8	110	39
P-2436	401.00	J-1450	J-1608	12	110	-13

EXISTING SYSTEM
PIPE TABLE

Label	Length (ft)	Start Node	Stop Node	Diameter (in)	Hazen-Williams C	Flow (gpm)
P-2062	153.00	J-742	J-1245	8	110	6
P-1841	455.00	J-934	J-1337	8	110	48
P-1205	107.00	J-1797	J-2096	8	110	5
P-1678	66.00	J-1686	J-2081	8	110	41
P-2613	123.00	J-825	J-1637	8	110	29
P-2212	57.00	J-842	J-1248	8	110	115
P-2039	204.00	J-1638	J-1510	8	110	4
P-1418	306.00	J-1129	J-1548	8	110	25
P-1648	112.00	J-1162	J-1667	8	110	36
P-1414	329.00	J-1148	J-1160	8	110	55
P-1558	313.00	J-1681	J-927	6	110	51
P-1287	412.00	J-975	J-2084	8	110	-172
P-2012	469.00	J-1567	J-838	8	110	53
P-1782	158.00	J-1378	J-1119	8	110	0
P-2632	75.00	J-1128	J-627	8	110	240
P-2281	553.00	J-1917	J-735	8	110	146
P-2647	220.00	J-1343	J-618	8	110	44
P-1915	155.00	J-1945	J-867	8	110	13
P-2450	415.00	J-1474	J-1989	8	110	33
P-2497	264.00	J-980	J-2109	8	110	-6
P-2127	418.00	J-716	J-1117	8	110	-26
P-979	61.00	J-725	J-1550	8	110	45
P-1469	270.00	J-1475	J-1848	8	110	-8
P-1368	216.00	J-1935	J-854	8	110	2
P-1252	282.00	J-1836	J-2031	8	110	-64
P-1653	455.00	J-648	J-814	8	110	-56
P-1478	270.00	J-1070	J-1474	8	110	8
P-2052	123.00	J-1575	J-860	8	110	6
P-1390	214.00	J-966	J-2076	8	110	-185
P-1201	310.00	J-926	J-1339	8	110	87
P-910	1,177.00	J-870	J-1947	12	110	0
P-1367	149.00	J-1069	J-1086	8	110	5
P-2064	258.00	J-779	J-93	8	110	-45
P-1096	57.00	J-1003	J-1652	12	110	10
P-1186	225.00	J-1785	J-2085	8	110	-39
P-2255	59.00	J-1178	J-1432	8	110	-33
P-2491	188.00	J-1155	J-1661	8	110	3
P-1178	362.00	J-174	J-885	8	110	10
P-922	319.00	J-656	J-1619	8	110	85
P-1583	192.00	J-1824	J-1593	8	110	-152
P-1834	318.00	J-1799	J-2098	8	110	38
P-1629	281.00	J-1234	J-1607	8	110	3
P-2260	190.00	J-975	J-1384	8	110	7
P-2523	326.00	J-1383	J-1785	8	110	-83
P-1918	397.00	J-1502	J-1799	8	110	-47

EXISTING SYSTEM
PIPE TABLE

Label	Length (ft)	Start Node	Stop Node	Diameter (in)	Hazen-Williams C	Flow (gpm)
P-1936	282.00	J-2066	J-940	8	110	40
P-2076	271.00	J-1998	J-2087	8	110	-28
P-1654	430.00	J-26	J-717	8	110	-22
P-1165	35.00	J-614	J-1822	6	110	45
P-1061	270.00	J-2012	J-864	12	110	-38
P-1081	200.00	J-1272	J-1687	12	110	-11
P-1257	201.00	J-1584	J-1208	8	110	183
P-1226	78.00	J-2101	J-985	8	110	-1
P-2368	402.00	J-734	J-1077	8	110	1
P-1647	279.00	J-2082	J-964	12	110	54
P-1741	160.00	J-692	J-817	6	110	2
P-1554	185.00	J-164	J-1580	8	110	1
P-1454	63.00	J-735	J-1148	8	110	138
P-2232	646.00	J-1146	J-502	12	110	188
P-1230	169.00	J-863	J-1281	8	110	-165
P-1964	345.00	J-733	J-1136	8	110	48
P-1378	37.00	J-1042	J-1446	8	110	-21
P-1135	531.00	J-2030	J-987	8	110	-9
P-937	103.00	J-1491	J-1935	8	110	34
P-1269	327.00	J-1207	J-1568	8	110	-12
P-1351	66.00	J-2022	J-980	8	110	13
P-1611	92.00	J-1208	J-777	8	110	103
P-1655	559.00	J-157	J-1567	8	110	60
P-1247	371.00	J-660	J-1062	8	110	-80
P-1634	162.00	J-1338	J-1740	8	110	3
P-1527	374.00	J-1810	J-145	8	110	-16
P-1998	121.00	J-1078	J-1066	8	110	-118
P-2416	55.00	J-1750	J-1376	8	110	-101
P-1123	340.00	J-1364	J-1836	8	110	-7
P-1939	53.00	J-1060	J-1463	8	110	44
P-973	31.00	J-1711	J-1808	6	110	35
P-1030	444.00	J-655	J-1158	8	110	4
P-1329	422.00	J-1932	J-1240	8	110	33
P-1806	280.00	J-1908	J-836	6	110	15
P-2129	391.00	J-1566	J-835	8	110	26
P-2024	53.00	J-1922	J-1474	8	110	29
P-1716	363.00	J-907	J-1445	8	110	94
P-1357	215.00	J-1127	J-1497	8	110	116
P-2057	351.00	J-1835	J-639	8	110	5
P-1453	497.00	J-1114	J-1621	8	110	36
P-1620	444.00	J-1742	J-2051	8	110	-60
P-2630	204.00	J-1636	J-914	8	110	5
P-2278	268.00	J-654	J-1157	8	110	8
P-1850	292.00	J-2001	J-1700	8	110	-49
P-1641	152.00	J-1646	J-1617	8	110	0

EXISTING SYSTEM
PIPE TABLE

Label	Length (ft)	Start Node	Stop Node	Diameter (in)	Hazen-Williams C	Flow (gpm)
P-2451	281.00	J-893	J-1003	12	110	19
P-921	42.00	J-1136	J-2038	8	110	39
P-2114	262.00	J-901	J-1403	8	110	13
P-1560	404.00	J-1670	J-2057	8	110	7
P-1464	182.00	J-724	J-1132	8	110	-84
P-1197	98.00	J-738	J-1990	6	110	4
P-1963	445.00	J-1579	J-1816	8	110	-38
P-2249	56.00	J-1938	J-857	8	110	6
P-1534	46.00	J-2062	J-1705	8	110	-18
P-2440	70.00	J-672	J-1391	8	110	28
P-2438	643.00	J-1305	J-658	8	110	39
P-2273	389.00	J-1501	J-1325	8	110	15
P-2646	434.00	J-1212	J-821	8	110	23
P-1227	388.00	J-1552	J-920	8	110	6
P-1557	342.00	J-319	J-1945	8	110	95
P-2480	56.00	J-1220	J-721	8	110	15
P-1428	430.00	J-946	J-1202	8	110	7
P-2645	377.00	J-1582	J-1854	8	110	8
P-2271	331.00	J-1040	J-622	8	110	107
P-1882	241.00	J-1363	J-649	8	110	4
P-2369	57.00	J-628	J-1665	8	110	22
P-2175	291.00	J-1574	J-739	8	110	47
P-1942	393.00	J-2027	J-1326	8	110	16
P-2224	44.00	J-936	J-1754	8	110	-2
P-1056	314.00	J-1330	J-1345	8	110	-81
P-1912	465.00	J-1471	J-1841	8	110	20
P-1628	80.00	J-1107	J-1521	12	110	64
P-2389	146.00	J-1953	J-1017	8	110	25
P-1327	323.00	J-618	J-1029	8	110	53
P-1526	482.00	J-1120	J-1628	8	110	124
P-1215	606.00	J-667	J-1795	8	110	-69
P-1744	118.00	J-1657	J-1984	8	110	17
P-1956	544.00	J-1504	J-1857	8	110	130
P-1107	363.00	J-1055	J-1459	8	110	79
P-2245	301.00	J-1413	J-935	8	110	0
P-2279	309.00	J-1248	J-1435	8	110	39
P-1300	298.00	J-794	J-1294	8	110	6
P-2258	416.00	J-1442	J-718	12	110	59
P-1830	236.00	J-1281	J-1693	8	110	-233
P-1920	201.00	J-1692	J-755	8	110	13
P-1728	290.00	J-1935	J-1356	8	110	30
P-2194	301.00	J-1337	J-951	8	110	24
P-2152	46.00	J-1044	J-1445	6	110	-9
P-1073	147.00	J-1928	J-1168	8	110	-47
P-2392	55.00	J-1112	J-1618	8	110	137

EXISTING SYSTEM
PIPE TABLE

Label	Length (ft)	Start Node	Stop Node	Diameter (in)	Hazen-Williams C	Flow (gpm)
P-1696	74.00	J-994	J-1217	8	110	27
P-1209	250.00	J-1695	J-977	8	110	74
P-2405	225.00	J-1586	J-1276	8	110	27
P-2167	346.00	J-31	J-1383	8	110	-79
P-1474	225.00	J-822	J-947	12	110	176
P-2339	417.00	J-839	J-1334	6	110	-15
P-1054	392.00	J-1986	J-693	8	110	18
P-1804	126.00	J-1650	J-1236	8	110	41
P-1411	188.00	J-1039	J-1441	8	110	34
P-1537	240.00	J-1871	J-916	8	110	10
P-2342	211.00	J-1607	J-1914	8	110	1
P-2051	87.00	J-1138	J-727	6	110	-3
P-926	309.00	J-1586	J-1929	8	110	23
P-1931	458.00	J-713	J-1115	8	110	117
P-2358	263.00	J-1367	J-959	12	110	48
P-1272	269.00	J-1896	J-1107	12	110	68
P-1929	185.00	J-981	J-1394	8	110	74
P-902	52.00	J-1451	J-1362	8	110	-6
P-1645	282.00	J-2084	J-966	8	110	-176
P-1055	381.00	J-1749	J-931	8	110	21
P-1162	212.00	J-666	J-1870	8	110	-31
P-1880	214.00	J-1002	J-871	8	110	229
P-2348	233.00	J-1106	J-1518	8	110	2
P-2147	257.00	J-853	J-1736	8	110	5
P-1306	252.00	J-1571	J-1479	8	110	2
P-1522	60.00	J-987	J-1627	8	110	-14
P-2620	21.00	J-1024	J-1165	8	110	-1
P-2092	323.00	J-801	J-714	8	110	-19
P-1624	45.00	J-1870	J-779	8	110	-33
P-1443	48.00	J-1831	J-632	6	110	0
P-1672	220.00	J-1651	J-1336	8	110	6
P-1823	319.00	J-1132	J-2053	8	110	-94
P-1640	218.00	J-885	J-1386	8	110	8
P-1890	249.00	J-805	J-668	8	110	-226
P-1032	296.00	J-1840	J-1378	8	110	51
P-2256	79.00	J-1632	J-1225	8	110	-11
P-1664	303.00	J-1318	J-1725	8	110	-9
P-1523	174.00	J-1091	J-1543	8	110	-133
P-1028	323.00	J-1788	J-2089	8	110	26
P-2483	56.00	J-690	J-811	8	110	-9
P-2289	428.00	J-1115	J-1534	8	110	106
P-2551	125.00	J-901	J-781	8	110	-86
P-1254	482.00	J-1684	J-1996	6	110	18
P-1182	58.00	J-2000	J-847	8	110	41
P-2192	165.00	J-644	J-1469	8	110	8

EXISTING SYSTEM
PIPE TABLE

Label	Length (ft)	Start Node	Stop Node	Diameter (in)	Hazen-Williams C	Flow (gpm)
P-1819	53.00	J-624	J-1616	8	110	16
P-1159	78.00	J-1480	J-991	8	110	-8
P-2653	390.00	J-1730	J-29	8	110	-14
P-2183	62.00	J-1693	J-958	8	110	-237
P-1188	115.00	J-694	J-1095	8	110	-40
P-2516	178.00	J-1386	J-1404	8	110	6
P-1822	223.00	J-1574	J-1919	8	110	3
P-2429	16.00	J-1356	J-1235	8	110	28
P-951	194.00	J-823	J-1085	8	110	16
P-2148	124.00	J-976	J-1261	8	110	5
P-1746	192.00	J-1294	J-1782	8	110	4
P-2043	235.00	J-1414	J-1802	8	110	4
P-1668	212.00	J-144	J-872	8	110	1
P-1463	127.00	J-168	J-1574	8	110	51
P-1147	208.00	J-1218	J-1622	12	110	11
P-2082	282.00	J-1356	J-731	8	110	2
P-1888	465.00	J-1910	J-726	8	110	27
P-1445	205.00	J-1800	J-2001	8	110	87
P-1960	45.00	J-1664	J-666	8	110	-3
P-1307	54.00	J-1343	J-1318	8	110	-8
P-1108	188.00	J-90	J-604	12	110	-463
P-2444	51.00	J-1222	J-1097	8	110	9
P-1577	430.00	J-1010	J-1421	8	110	19
P-2093	272.00	J-1573	J-1918	8	110	-63
P-1214	55.00	J-1625	J-940	8	110	2
P-1068	439.00	J-2050	J-1761	8	110	15
P-1662	353.00	J-1849	J-1100	8	110	129
P-1828	73.00	J-1848	J-662	8	110	-10
P-2053	54.00	J-1387	J-1787	8	110	197
P-2602	148.00	J-1141	J-1111	8	110	13
P-2241	384.00	J-726	J-1135	8	110	18
P-1168	54.00	J-1694	J-2006	8	110	2
P-2543	61.00	J-1752	J-2060	12	110	217
P-1982	378.00	J-1122	J-839	6	110	-11
P-2560	241.00	J-1000	J-1946	8	110	28
P-2386	251.00	J-1103	J-1514	8	110	4
P-1826	162.00	J-1375	J-1776	8	110	6
P-1060	103.00	J-978	J-1494	8	110	27
P-1867	385.00	J-1385	J-874	8	110	63
P-1571	488.00	J-1339	J-623	8	110	57
P-1058	49.00	J-2082	J-883	12	110	-64
P-1291	291.00	J-949	J-2082	12	110	-7
P-2106	112.00	J-1795	J-1676	8	110	0
P-2145	230.00	J-745	J-1246	8	110	-13
P-1069	374.00	J-1075	J-1475	8	110	-4

EXISTING SYSTEM
PIPE TABLE

Label	Length (ft)	Start Node	Stop Node	Diameter (in)	Hazen-Williams C	Flow (gpm)
P-1549	281.00	J-1734	J-1983	8	110	42
P-1916	392.00	J-927	J-1551	6	110	59
P-2502	147.00	J-1249	J-1747	8	110	7
P-1204	188.00	J-1182	J-1358	8	110	63
P-1962	30.00	J-743	J-1744	8	110	0
P-1261	245.00	J-1697	J-2008	8	110	-32
P-1102	53.00	J-1698	J-1374	8	110	17
P-967	86.00	J-1999	J-846	12	110	-217
P-1086	204.00	J-1410	J-1797	8	110	8
P-1808	190.00	J-1048	J-1451	8	110	-4
P-1210	183.00	J-600	J-1010	8	110	32
P-1294	43.00	J-806	J-1209	8	110	-93
P-920	221.00	J-605	J-1014	8	110	76
P-1616	368.00	J-2008	J-851	8	110	-40
P-1101	56.00	J-1337	J-1904	8	110	16
P-2128	34.00	J-1139	J-1505	8	110	138
P-2250	76.00	J-736	J-1239	8	110	-9
P-2181	319.00	J-1782	J-661	8	110	4
P-1773	237.00	J-2040	J-1002	8	110	117
P-2047	515.00	J-332	J-1409	8	110	14
P-1043	259.00	J-1929	J-1708	8	110	12
P-2458	323.00	J-2086	J-969	8	110	6
P-2021	326.00	J-1826	J-628	8	110	25
P-2228	93.00	J-1633	J-2034	8	110	8
P-1913	325.00	J-1792	J-1015	6	110	2
P-2484	284.00	J-1957	J-2030	8	110	-2
P-1381	59.00	J-1242	J-1657	8	110	37
P-1406	138.00	J-1299	J-1429	8	110	-18
P-1016	328.00	J-2046	J-800	8	110	4
P-2091	117.00	J-1487	J-672	8	110	28
P-976	188.00	J-1581	J-1926	8	110	69
P-2222	126.00	J-1037	J-1544	8	110	0
P-1336	265.00	J-2104	J-994	8	110	31
P-1456	389.00	J-1831	J-1230	8	110	9
P-1594	667.00	J-1630	J-1794	8	110	51
P-1222	243.00	J-1652	J-1653	12	110	7
P-2625	121.00	J-1773	J-2077	8	110	-54
P-1951	58.00	J-1794	J-1895	8	110	49
P-1496	238.00	J-1680	J-1994	8	110	125
P-2154	408.00	J-1282	J-1703	8	110	-12
P-1358	237.00	J-1465	J-702	8	110	-17
P-1946	421.00	J-985	J-1793	8	110	-3
P-2610	248.00	J-1384	J-1784	8	110	4
P-984	448.00	J-1864	J-769	8	110	4
P-2159	508.00	J-1643	J-2068	8	110	12

EXISTING SYSTEM
PIPE TABLE

Label	Length (ft)	Start Node	Stop Node	Diameter (in)	Hazen-Williams C	Flow (gpm)
P-1138	439.00	J-1618	J-1120	8	110	129
P-2636	293.00	J-1851	J-663	8	110	-76
P-1603	563.00	J-1263	J-743	8	110	6
P-1399	123.00	J-1707	J-1314	8	110	-101
P-2011	48.00	J-717	J-1123	8	110	-24
P-1078	356.00	J-1793	J-2092	8	110	-6
P-2150	198.00	J-1257	J-1753	8	110	50
P-1130	182.00	J-815	J-1626	8	110	2
P-1284	520.00	J-998	J-1411	8	110	-15
P-2186	372.00	J-2007	J-1709	8	110	-45
P-1589	81.00	J-985	J-1400	8	110	1
P-1366	293.00	J-1754	J-2062	8	110	-20
P-1990	176.00	J-1338	J-2049	8	110	1
P-2179	407.00	J-1985	J-1344	8	110	128
P-994	276.00	J-1698	J-2009	8	110	22
P-2603	151.00	J-1982	J-823	8	110	56
P-2296	281.00	J-940	J-1343	8	110	40
P-1643	72.00	J-665	J-1785	8	110	46
P-1604	482.00	J-1180	J-1579	8	110	-31
P-2214	244.00	J-1862	J-675	8	110	73
P-1902	59.00	J-1025	J-741	6	110	34
P-1047	211.00	J-1408	J-1871	8	110	27
P-2162	200.00	J-608	J-1108	8	110	18
P-1562	468.00	J-2047	J-1752	8	110	59
P-1216	153.00	J-1067	J-1472	8	110	10
P-1657	232.00	J-163	J-1909	8	110	57
P-1180	55.00	J-1108	J-2021	8	110	7
P-1042	240.00	J-950	J-56	8	110	0
P-1778	53.00	J-1548	J-815	8	110	23
P-1917	154.00	J-2085	J-1369	8	110	-41
P-1488	405.00	J-1271	J-1686	8	110	30
P-2079	48.00	J-1339	J-1741	8	110	26
P-982	105.00	J-663	J-1064	8	110	-90
P-2329	133.00	J-2008	J-1268	6	110	3
P-1468	46.00	J-926	J-1329	8	110	9
P-1972	306.00	J-1270	J-642	6	110	3
P-1733	373.00	J-1023	J-2063	8	110	-18
P-2425	385.00	J-809	J-1213	8	110	91
P-2166	330.00	J-1720	J-2024	8	110	4
P-1118	278.00	J-1417	J-1880	8	110	0
P-2538	520.00	J-1647	J-2043	8	110	4
P-1816	407.00	J-2058	J-1334	6	110	-9
P-2174	183.00	J-1692	J-959	12	110	-26
P-1790	539.00	J-1751	J-812	12	110	-395
P-2146	53.00	J-1122	J-1539	12	110	74

EXISTING SYSTEM
PIPE TABLE

Label	Length (ft)	Start Node	Stop Node	Diameter (in)	Hazen-Williams C	Flow (gpm)
P-1579	441.00	J-2012	J-1453	8	110	9
P-1295	378.00	J-945	J-648	8	110	-49
P-1609	335.00	J-1668	J-1300	8	110	-40
P-2038	317.00	J-1273	J-1112	8	110	142
P-1983	338.00	J-712	J-1113	6	110	11
P-1652	74.00	J-1611	J-1209	8	110	-3
P-2574	918.00	J-1488	J-1301	8	110	54
P-2418	382.00	J-666	J-1407	8	110	6
P-2526	46.00	J-2056	J-1023	8	110	-6
P-2285	161.00	J-1764	J-2071	8	110	4
P-1290	342.00	J-2021	J-976	8	110	6
P-1531	289.00	J-1855	J-1787	8	110	-86
P-1709	294.00	J-1483	J-980	8	110	-4
P-2149	469.00	J-705	J-1105	8	110	15
P-1384	60.00	J-1322	J-918	6	110	7
P-2137	139.00	J-147	J-1444	8	110	4
P-1622	175.00	J-1118	J-2029	8	110	20
P-1316	13.00	J-1348	J-933	8	110	0
P-2352	132.00	J-1066	J-39	8	110	-119
P-1726	80.00	J-1669	J-937	8	110	0
P-1095	257.00	J-1560	J-1847	8	110	9
P-1025	303.00	J-1618	J-620	8	110	4
P-2094	199.00	J-692	J-1222	8	110	10
P-1927	188.00	J-744	J-1153	8	110	1
P-1669	231.00	J-1591	J-1922	8	110	30
P-2410	170.00	J-2032	J-989	8	110	4
P-1238	53.00	J-1806	J-2104	8	110	32
P-2505	468.00	J-1445	J-614	6	110	39
P-1621	493.00	J-2108	J-1238	8	110	16
P-1865	513.00	J-1072	J-1476	8	110	33
P-1405	207.00	J-1064	J-1194	8	110	-93
P-1835	532.00	J-697	J-335	8	110	-5
P-2164	62.00	J-1560	J-1906	8	110	63
P-2372	367.00	J-1576	J-747	8	110	47
P-1659	129.00	J-683	J-1083	8	110	6
P-1815	260.00	J-977	J-882	8	110	10
P-2474	95.00	J-650	J-1364	8	110	-5
P-974	83.00	J-2077	J-953	8	110	3
P-1437	262.00	J-2089	J-1907	8	110	22
P-1412	558.00	J-1541	J-1970	8	110	-18
P-1067	184.00	J-968	J-1975	8	110	-40
P-1635	150.00	J-1341	J-1829	8	110	-113
P-1498	176.00	J-140	J-1489	8	110	97
P-1341	351.00	J-1663	J-2054	8	110	-14
P-2313	238.00	J-1768	J-2044	8	110	31

EXISTING SYSTEM
PIPE TABLE

Label	Length (ft)	Start Node	Stop Node	Diameter (in)	Hazen-Williams C	Flow (gpm)
P-2496	103.00	J-1539	J-1896	12	110	72
P-2529	114.00	J-739	J-1151	8	110	47
P-2136	465.00	J-1753	J-1627	8	110	95
P-2233	434.00	J-1357	J-1763	8	110	68
P-960	143.00	J-1296	J-990	8	110	2
P-1379	248.00	J-1885	J-692	8	110	14
P-2506	527.00	J-1391	J-820	8	110	32
P-1759	121.00	J-1314	J-1723	8	110	2
P-1844	122.00	J-645	J-1052	8	110	2
P-2413	257.00	J-1930	J-849	8	110	6
P-2210	279.00	J-664	J-1065	8	110	9
P-2073	200.00	J-1307	J-1712	8	110	17
P-928	309.00	J-1722	J-2025	8	110	14
P-2365	394.00	J-725	J-1133	8	110	10
P-919	116.00	J-609	J-1252	8	110	-6
P-1566	319.00	J-1572	J-112	8	110	-60
P-2366	122.00	J-1485	J-772	8	110	7
P-1127	233.00	J-1173	J-1169	8	110	16
P-2556	492.00	J-2011	J-863	8	110	-68
P-1824	328.00	J-796	J-1197	8	110	36
P-2172	342.00	J-1616	J-2022	8	110	14
P-1345	408.00	J-138	J-713	8	110	125
P-959	346.00	J-1637	J-1322	8	110	14
P-1461	409.00	J-883	J-1297	12	110	-66
P-1861	323.00	J-1994	J-842	8	110	119
P-1293	560.00	J-847	J-1255	8	110	27
P-1036	426.00	J-1457	J-1831	6	110	14
P-2022	347.00	J-634	J-1139	8	110	86
P-1309	426.00	J-1817	J-1452	8	110	32
P-1519	238.00	J-2080	J-1363	8	110	104
P-2635	304.00	J-813	J-1219	8	110	93
P-1836	268.00	J-947	J-1348	12	110	166
P-1160	260.00	J-1370	J-858	8	110	-61
P-2406	483.00	J-1787	J-2088	8	110	106
P-2608	181.00	J-1513	J-797	8	110	-18
P-1121	109.00	J-2016	J-873	8	110	-6
P-1630	52.00	J-653	J-1057	8	110	-5
P-1751	219.00	J-1737	J-2045	8	110	1
P-1475	144.00	J-1469	J-1837	8	110	10
P-1364	300.00	J-1471	J-738	8	110	-39
P-1874	390.00	J-1553	J-1286	8	110	18
P-2176	231.00	J-1446	J-1549	6	110	7
P-1386	61.00	J-784	J-1190	8	110	16
P-1109	315.00	J-1311	J-796	8	110	113
P-2634	226.00	J-1977	J-1289	8	110	15

EXISTING SYSTEM
PIPE TABLE

Label	Length (ft)	Start Node	Stop Node	Diameter (in)	Hazen-Williams C	Flow (gpm)
P-2254	205.00	J-1078	J-1481	8	110	59
P-1376	299.00	J-823	J-1487	8	110	36
P-2437	23.00	J-856	J-1272	12	110	0
P-1142	403.00	J-1432	J-1813	8	110	-41
P-1157	66.00	J-2109	J-1234	8	110	-7
P-1285	455.00	J-1853	J-665	8	110	51
P-1596	400.00	J-859	J-1504	8	110	144
P-1723	331.00	J-1522	J-641	8	110	48
P-2103	348.00	J-1592	J-1205	8	110	48
P-2275	248.00	J-755	J-1167	8	110	12
P-2454	535.00	J-336	J-1803	8	110	10
P-2648	78.00	J-1511	J-753	8	110	6
P-2097	259.00	J-1984	J-826	8	110	14
P-1242	107.00	J-1260	J-859	8	110	157
P-943	390.00	J-614	J-829	8	110	-11
P-999	62.00	J-1788	J-1129	8	110	27
P-2541	235.00	J-1812	J-600	8	110	34
P-1786	58.00	J-2054	J-802	8	110	-16
P-2006	58.00	J-1674	J-1989	8	110	-7
P-1600	668.00	J-1062	J-1781	8	110	-88
P-2412	211.00	J-1819	J-607	12	110	4
P-2336	329.00	J-96	J-1408	8	110	32
P-2501	85.00	J-1945	J-1370	8	110	-59
P-1169	180.00	J-1398	J-681	8	110	-125
P-940	55.00	J-1701	J-2012	12	110	-27
P-2590	173.00	J-1398	J-1069	8	110	15
P-2324	48.00	J-1891	J-1763	6	110	-14
P-2068	412.00	J-1445	J-1986	8	110	41
P-1436	215.00	J-1951	J-1377	8	110	3
P-2456	274.00	J-1077	J-1479	8	110	4
P-1265	489.00	J-1735	J-2108	8	110	20
P-1305	125.00	J-1875	J-700	8	110	14
P-1009	56.00	J-1854	J-1927	8	110	9
P-2420	337.00	J-1126	J-1543	12	110	757
P-1818	394.00	J-622	J-1032	6	110	18
P-2156	170.00	J-1132	J-1241	6	110	6
P-1793	301.00	J-1845	J-745	8	110	-5
P-1373	395.00	J-1360	J-728	8	110	30
P-2153	319.00	J-1978	J-1650	8	110	42
P-1774	289.00	J-1160	J-1566	8	110	51
P-2593	261.00	J-935	J-1637	8	110	-11
P-1697	489.00	J-988	J-1840	8	110	41
P-2067	256.00	J-1940	J-1013	8	110	97
P-1075	167.00	J-1165	J-1670	8	110	-3
P-1277	568.00	J-1455	J-1341	8	110	-66

EXISTING SYSTEM
PIPE TABLE

Label	Length (ft)	Start Node	Stop Node	Diameter (in)	Hazen-Williams C	Flow (gpm)
P-1342	452.00	J-1169	J-1675	8	110	11
P-970	101.00	J-1117	J-1556	8	110	-29
P-1451	378.00	J-1743	J-1235	8	110	-11
P-1760	210.00	J-1279	J-1771	8	110	5
P-1041	462.00	J-2088	J-1800	8	110	95
P-1541	378.00	J-1822	J-1025	6	110	40
P-1703	63.00	J-1509	J-687	8	110	2
P-1801	384.00	J-748	J-1249	8	110	131
P-1353	649.00	J-1252	J-1744	8	110	-69
P-2251	49.00	J-1654	J-1982	8	110	57
P-2457	281.00	J-706	J-1441	8	110	-52
P-1311	315.00	J-1576	J-1591	8	110	30
P-1427	217.00	J-1662	J-1987	6	110	5
P-1077	136.00	J-785	J-1412	8	110	87
P-844	927.00	J-160	J-347	12	110	40
P-839	259.00	J-343	J-151	12	110	-446
P-838	825.00	J-152	J-343	8	110	-446
P-837	54.00	J-342	J-2163	30	110	4,313
P-836	33.00	1593-B	J-342	30	110	4,313
P-835	70.00	J-341	J-2163	30	110	0
P-834	44.00	1585-B	J-341	30	110	0
P-833	84.00	J-340	J-2163	30	110	5,544
P-832	62.00	1592-B	J-340	30	110	5,544
P-829	115.00	J-293	J-338	12	110	0
P-828	507.00	J-338	J-335	12	110	-2
P-827	115.00	1609-B	J-338	12	110	0
P-824	178.00	1600-B	J-337	12	110	0
P-823	930.00	J-335	J-336	12	110	-12
P-821	134.00	J-334	1609-A	12	110	0
P-819	698.00	J-333	J-334	12	110	9
P-818	86.00	J-333	J-332	12	110	-18
P-807	294.00	J-310	J-173	8	110	-6
P-789	102.00	J-38	J-42	30	110	9,324
P-785	36.00	J-30	1593-A	30	110	4,313
P-782	288.00	J-109	J-4	16	110	-528
P-781	2,286.00	J-299	J-109	16	110	-659
P-769	463.00	J-298	J-293	16	110	654
P-768	62.00	J-330	J-44	16	110	0
P-767	73.00	1583-B	J-330	16	110	0
P-766	72.00	J-329	J-44	16	110	0
P-765	71.00	1584-B	J-329	16	110	0
P-764	319.00	J-24	T-3	20	110	5,789
P-762	1,137.00	J-325	J-326	8	110	92
P-761	861.00	J-326	J-167	8	110	-46
P-760	552.00	J-172	J-326	8	110	-136

EXISTING SYSTEM
PIPE TABLE

Label	Length (ft)	Start Node	Stop Node	Diameter (in)	Hazen-Williams C	Flow (gpm)
P-759	819.00	J-131	J-325	8	110	-63
P-758	735.00	J-324	J-74	14	110	692
P-757	288.00	J-73	J-324	14	110	692
P-750	630.00	J-102	1606-A	12	110	0
P-748	333.00	J-251	J-321	8	110	-4
P-742	3,176.00	J-169	J-320	12	110	318
P-732	2,677.00	J-318	J-194	14	110	693
P-731	2,543.00	J-123	J-318	14	110	693
P-722	768.00	J-80	J-314	12	110	0
P-718	793.00	J-102	J-312	8	110	7
P-705	401.00	J-197	J-69	12	110	-624
P-693	438.00	J-301	J-147	8	110	5
P-692	1,914.00	J-64	J-301	8	110	10
P-687	2,065.00	J-298	J-299	16	110	-656
P-679	1,027.00	J-109	J-294	12	110	-344
P-674	2,767.00	J-5	J-293	16	110	-652
P-670	136.00	J-44	J-290	16	110	1,124
P-666	375.00	J-127	J-289	8	110	-26
P-626	205.00	J-272	J-148	12	110	-446
P-625	922.00	J-151	J-272	12	110	-446
P-623	3,062.00	J-250	J-97	12	110	-1
P-569	618.00	J-250	J-2161	12	110	0
P-552	2,522.00	J-241	J-106	30	110	5,307
P-551	2,731.00	J-104	J-241	30	110	5,339
P-541	283.00	J-237	J-103	12	110	84
P-540	1,278.00	J-230	J-237	12	110	84
P-526	222.00	J-231	J-153	30	110	6,431
P-525	525.00	J-129	J-231	30	110	6,431
P-519	2,702.00	J-229	J-230	12	110	84
P-518	2,579.00	J-105	J-229	12	110	123
P-475	2,607.00	J-209	J-204	30	110	5,137
P-474	2,736.00	J-107	J-209	30	110	5,137
P-472	1,615.00	J-208	J-108	12	110	30
P-471	2,817.00	J-107	J-208	12	110	30
P-469	1,503.00	J-207	J-103	12	110	-78
P-468	433.00	J-101	J-207	12	110	-74
P-465	2,735.00	J-204	J-8	30	110	5,137
P-439	1,293.00	J-194	J-73	14	110	693
p-387	70.00	J-181	J-114	12	110	0
P-383	63.00	1591-B	J-181	12	110	0
P-382	52.00	J-180	J-114	12	110	0
P-381	64.00	1590-B	J-180	12	110	0
P-380	37.00	J-179	J-114	12	110	0
P-379	65.00	1589-B	J-179	12	110	0
P-378	30.00	J-178	J-114	12	110	0

EXISTING SYSTEM
PIPE TABLE

Label	Length (ft)	Start Node	Stop Node	Diameter (in)	Hazen-Williams C	Flow (gpm)
P-377	66.00	1588-B	J-178	12	110	0
P-374	36.00	J-177	J-114	12	110	267
P-373	67.00	1587-B	J-177	12	110	267
P-372	50.00	J-176	J-114	12	110	267
P-371	69.00	1586-B	J-176	12	110	267
P-362	2,356.00	J-170	J-173	8	110	11
P-360	1,140.00	J-170	J-172	6	110	-131
P-355	1,080.00	J-167	J-131	8	110	-61
P-354	748.00	J-165	J-167	8	110	-9
P-350	57.00	J-158	J-44	16	110	975
P-349	74.00	1582-B	J-158	16	110	975
P-344	57.00	J-133	J-44	12	110	149
P-341	74.00	1581-B	J-133	16	110	149
P-340	63.00	J-81	J-67	12	110	320
P-347	26.00	J-132	J-118	6	110	58
P-346	24.00	J-128	J-132	8	110	58
P-345	1,009.00	J-67	J-118	8	110	95
P-329	300.00	R-1	J-2164	60	110	10,803
P-327	81.00	J-30	J-60	24	110	946
P-324	78.00	J-6	1601-B	12	110	0
P-318	116.00	J-42	J-62	30	110	9,324
P-316	136.00	J-60	J-41	20	110	946
P-315	664.00	J-41	J-59	20	110	946
P-319	53.00	J-30	1592-A	30	110	5,544
P-313	48.00	J-38	1591-A	12	110	0
P-311	37.00	J-38	1590-A	12	110	0
P-309	39.00	J-38	1589-A	12	110	0
P-307	43.00	J-38	1588-A	12	110	0
P-303	54.00	J-38	1587-A	12	110	267
P-295	67.00	J-38	1586-A	12	110	267
P-293	50.00	J-30	1585-A	30	110	0
P-292	34.00	J-2164	J-30	60	110	10,803
P-280	1,085.00	J-19	J-63	30	110	8,509
P-279	1,535.00	J-150	J-19	30	110	8,522
P-275	194.00	J-18	J-144	8	110	198
P-271	470.00	J-18	J-70	12	110	-591
P-270	312.00	J-124	J-18	12	110	-391
P-266	2,003.00	J-17	J-68	30	110	6,525
P-263	685.00	J-70	J-17	30	110	6,521
P-261	321.00	J-16	J-85	12	110	-204
P-260	438.00	J-86	J-16	12	110	-216
P-258	35.00	J-15	J-84	12	110	-1,485
P-257	27.00	J-81	J-15	12	110	-1,148
P-250	3,729.00	J-114	J-11	12	110	533
P-248	130.00	J-11	J-57	12	110	530

EXISTING SYSTEM
PIPE TABLE

Label	Length (ft)	Start Node	Stop Node	Diameter (in)	Hazen-Williams C	Flow (gpm)
P-246	74.00	J-105	J-104	12	110	-128
P-423	2,399.00	J-111	J-169	12	110	360
P-420	1,935.00	J-168	J-64	12	110	14
P-419	401.00	J-116	J-168	12	110	65
P-408	169.00	J-162	J-137	12	110	802
P-407	745.00	J-162	J-150	30	110	8,522
P-401	675.00	J-62	J-162	30	110	9,324
P-398	241.00	J-159	J-160	6	110	90
P-393	211.00	J-157	J-117	12	110	-573
P-384	1,126.00	J-154	J-155	12	110	277
P-375	119.00	J-104	J-155	12	110	438
P-339	124.00	J-153	J-154	8	110	527
P-338	1,139.00	J-153	J-104	30	110	5,904
P-323	525.00	J-149	J-152	8	110	-232
P-305	1,117.00	J-148	J-86	12	110	-449
P-289	443.00	J-126	J-145	6	110	12
P-277	488.00	J-66	J-142	8	110	462
P-276	396.00	J-140	J-141	8	110	-129
P-274	2,005.00	J-141	J-70	30	110	8,281
P-273	545.00	J-63	J-141	30	110	8,421
P-267	809.00	J-136	J-139	8	110	4
P-264	921.00	J-137	J-138	12	110	377
P-256	177.00	J-136	J-135	12	110	633
P-255	325.00	J-134	J-136	8	110	641
P-254	110.00	J-135	J-117	12	110	720
P-253	799.00	J-63	J-135	12	110	87
P-233	776.00	J-130	J-110	12	110	527
P-226	45.00	J-403	J-130	14	110	527
P-225	369.00	1598-A	J-129	8	110	0
P-208	79.00	J-10	J-129	30	110	6,431
P-201	50.00	1597-B	J-100	12	110	0
P-200	56.00	J-101	1597-A	8	110	0
P-196	977.00	J-81	J-128	18	110	828
P-194	881.00	J-126	J-98	12	110	67
P-190	1,531.00	J-125	J-119	20	110	-946
P-189	2,018.00	J-78	J-125	20	110	-946
P-182	1,096.00	J-96	J-121	12	110	-162
P-180	501.00	J-69	J-120	12	110	-632
P-179	1,734.00	J-119	J-13	20	110	-946
P-176	748.00	J-117	J-116	12	110	146
P-172	421.00	J-57	J-115	12	110	400
P-168	417.00	J-113	J-50	12	110	86
P-166	993.00	J-40	J-502	12	110	33
P-160	1,304.00	J-31	J-32	12	110	-250
P-159	228.00	J-6	J-110	12	110	-520

EXISTING SYSTEM
PIPE TABLE

Label	Length (ft)	Start Node	Stop Node	Diameter (in)	Hazen-Williams C	Flow (gpm)
P-148	506.00	J-99	J-100	12	110	18
P-147	1,937.00	J-98	J-99	12	110	53
P-144	606.00	J-92	J-96	12	110	-101
P-138	83.00	J-89	J-88	12	110	0
P-137	329.00	J-79	J-89	12	110	-540
P-133	49.00	J-84	J-79	12	110	-540
P-132	2,661.00	J-78	J-84	12	110	946
P-129	386.00	J-12	J-83	12	110	193
P-126	58.00	J-78	J-80	18	110	0
P-123	43.00	J-68	J-12	30	110	6,525
P-121	145.00	J-73	J-76	8	110	1
P-120	2,979.00	J-74	J-387	14	110	692
P-119	86.00	J-74	J-75	14	110	0
P-115	778.00	J-71	J-72	12	110	651
P-107	1,072.00	J-61	J-13	20	110	946
P-105	2,371.00	J-59	J-61	20	110	946
P-101	329.00	J-55	J-56	12	110	0
P-100	667.00	J-52	J-55	12	110	7
P-98	457.00	J-55	J-53	12	110	5
P-99	1,105.00	J-54	J-53	12	110	3
P-97	202.00	J-52	J-54	12	110	14
P-89	75.00	J-46	J-21	20	110	-652
P-88	23.00	J-24	J-46	30	110	-652
P-87	19.00	J-21	J-45	20	110	-652
P-86	2,109.00	J-45	J-5	16	110	-652
P-80	58.00	J-43	1581-A	16	110	149
P-79	33.00	J-25	J-43	16	110	1,124
P-78	78.00	J-43	1584-A	16	110	0
P-77	72.00	J-43	1583-A	16	110	0
P-76	66.00	J-43	1582-A	16	110	975
P-67	571.00	J-32	J-39	12	110	-71
P-61	734.00	J-36	J-37	12	110	-644
P-41	29.00	J-27	T-3	20	110	-1,124
P-39	97.00	J-27	J-22	20	110	1,124
P-35	77.00	J-22	J-25	20	110	1,124
P-34	267.00	J-25	J-21	16	110	0
P-32	562.00	J-7	J-24	30	110	5,137
P-12	2,494.00	J-8	J-7	30	110	5,137
P-4157	113.00	J-2268	J-2183	8	110	6
P-4156	231.00	J-2268	J-6	12	110	-518
P-4155	1,452.00	J-310	J-2268	12	110	-511
P-4154	201.00	J-2266	J-2267	8	110	-12
P-4153	18.00	J-2267	1598-B	8	110	0
P-4152	436.00	J-289	J-2267	8	110	12
P-4151	144.00	J-314	J-2265	12	110	-451

EXISTING SYSTEM
PIPE TABLE

Label	Length (ft)	Start Node	Stop Node	Diameter (in)	Hazen-Williams C	Flow (gpm)
P-4150	116.00	J-2265	J-2247	30	110	5,865
P-4149	633.00	J-12	J-2265	30	110	6,316
P-4148	1,021.00	J-2263	J-2264	8	110	6
P-4147	590.00	J-2262	J-2263	12	110	6
P-4146	2,810.00	J-2261	J-2262	12	110	6
P-4145	2,300.00	J-2260	J-2261	12	110	6
P-4144	9,129.00	J-48	J-2260	12	110	6
P-4143	343.00	J-2259	J-2072	12	110	435
P-4142	113.00	J-2258	J-2259	12	110	435
P-4141	459.00	J-2257	J-2258	12	110	435
P-4140	578.00	J-314	J-2257	12	110	435
P-4139	826.00	J-2254	J-2256	18	110	0
P-4138	249.00	J-2254	J-2255	8	110	0
P-4137	740.00	J-2250	J-2254	18	110	0
P-4136	65.00	J-2253	J-83	8	110	-181
P-4135	352.00	J-2251	J-2253	8	110	-181
P-4134	313.00	J-2251	J-2252	8	110	0
P-4133	359.00	J-2250	J-2251	8	110	-181
P-4132	153.00	J-2248	J-2250	18	110	-181
P-4131	272.00	J-2248	J-2249	8	110	0
P-4130	241.00	J-2247	J-2248	18	110	-181
P-4129	360.00	J-2247	J-1196	30	110	6,046
P-4127	199.00	J-1294	J-95	8	110	-1
P-4126	294.00	J-2245	J-1540	8	110	-30
P-4125	161.00	J-2245	J-2246	8	110	0
P-4124	312.00	J-2244	J-2245	8	110	-30
P-4123	216.00	J-2244	J-1287	8	110	58
P-4122	294.00	J-2242	J-2244	8	110	28
P-4121	179.00	J-2242	J-2243	8	110	0
P-4120	335.00	J-1667	J-2242	8	110	29
P-4119	997.00	J-2221	J-2266	8	110	-12
P-4118	784.00	J-127	J-2221	12	110	11
P-4116	465.00	J-2218	J-2220	12	110	-202
P-4115	1,364.00	J-2241	J-10	30	110	6,440
P-4114	1,256.00	J-2072	J-2241	30	110	6,440
P-4113	396.00	J-2240	J-67	8	110	-179
P-4112	479.00	J-2239	J-2240	8	110	-179
P-4111	98.00	J-2233	J-2239	8	110	-179
P-4110	95.00	J-2238	J-2232	8	110	-20
P-4109	527.00	J-2237	J-2238	8	110	-20
P-4108	251.00	J-2236	J-2237	8	110	-20
P-4107	581.00	J-2235	J-2236	8	110	-20
P-4106	147.00	J-2231	J-2235	8	110	-20
P-4105	388.00	J-2233	J-2234	12	110	0
P-4104	407.00	J-2234	J-67	18	110	0

EXISTING SYSTEM
PIPE TABLE

Label	Length (ft)	Start Node	Stop Node	Diameter (in)	Hazen-Williams C	Flow (gpm)
P-4103	2,190.00	J-80	J-2234	18	110	0
P-4102	271.00	J-2232	J-2233	12	110	-179
P-4101	249.00	J-2231	J-2232	12	110	-159
P-4100	497.00	J-2226	J-2231	12	110	-179
P-4099	271.00	J-2230	J-2223	8	110	49
P-4098	539.00	J-2230	J-2225	8	110	-17
P-4097	282.00	J-2228	J-2230	8	110	32
P-4096	196.00	J-2228	J-2229	8	110	0
P-4095	396.00	J-2227	J-2228	8	110	32
P-4094	130.00	J-2226	J-2227	8	110	32
P-4093	276.00	J-2225	J-2226	12	110	-147
P-4092	294.00	J-2224	J-2225	12	110	-130
P-4091	298.00	J-2222	J-2224	12	110	-130
P-4090	163.00	J-2222	J-2223	8	110	-49
P-4089	370.00	J-2221	J-2222	12	110	-179
P-4088	264.00	J-2220	J-2221	12	110	-202
P-4086	144.00	J-2218	J-2219	8	110	0
P-4085	455.00	J-2217	J-2218	8	110	-202
P-4084	193.00	J-2215	J-2217	8	110	-202
P-4083	227.00	J-2215	J-2216	8	110	0
P-4082	280.00	J-952	J-2215	8	110	-202
P-4081	325.00	J-952	J-2214	8	110	0
P-4080	169.00	J-2213	J-1359	8	110	5
P-4079	265.00	J-2213	J-2208	8	110	4
P-4078	275.00	J-2212	J-2213	8	110	9
P-4077	235.00	J-2212	J-964	8	110	-14
P-4076	65.00	J-2211	J-2212	8	110	-5
P-4075	204.00	J-2210	J-2211	8	110	-5
P-4074	585.00	J-2209	J-2210	8	110	-5
P-4073	213.00	J-2208	J-2209	8	110	-5
P-4072	139.00	J-1461	J-2208	8	110	-9
P-4071	366.00	J-2197	J-2207	8	110	0
P-4070	700.00	J-2197	J-2192	8	110	-2
P-4069	565.00	J-1927	J-2198	8	110	-7
P-4068	633.00	J-869	J-2199	12	110	9
P-4067	567.00	J-1916	J-2200	8	110	2
P-4066	501.00	J-1559	J-2201	8	110	3
P-4065	342.00	J-2206	J-1837	8	110	7
P-4064	291.00	J-2205	J-2206	8	110	7
P-4063	251.00	J-2204	J-2205	8	110	7
P-4062	516.00	J-2203	J-2204	8	110	7
P-4061	234.00	J-2195	J-2203	8	110	7
P-4060	234.00	J-2194	J-2202	8	110	0
P-4059	711.00	J-2198	J-2191	8	110	-2
P-4058	690.00	J-2199	J-2190	12	110	5

EXISTING SYSTEM
PIPE TABLE

Label	Length (ft)	Start Node	Stop Node	Diameter (in)	Hazen-Williams C	Flow (gpm)
P-4057	700.00	J-2200	J-2189	8	110	2
P-4056	711.00	J-2201	J-2188	8	110	2
P-4055	274.00	J-2200	J-2201	8	110	-1
P-4054	274.00	J-2199	J-2200	8	110	-1
P-4053	274.00	J-2198	J-2199	8	110	-5
P-4052	274.00	J-2197	J-2198	8	110	-1
P-4051	274.00	J-2196	J-2197	8	110	-3
P-4048	264.00	J-2195	J-2196	8	110	-3
P-4047	274.00	J-2194	J-2195	8	110	4
P-4046	163.00	J-2193	J-2194	8	110	4
P-4045	264.00	J-2192	J-2193	12	110	4
P-4044	274.00	J-2191	J-2192	12	110	6
P-4043	284.00	J-2190	J-2191	12	110	8
P-4042	274.00	J-2189	J-2190	12	110	3
P-4041	284.00	J-2188	J-2189	12	110	2
P-4040	242.00	J-933	J-2188	12	110	0
P-4039	286.00	J-2184	J-2187	8	110	0
P-4038	363.00	J-2185	J-2186	8	110	1
P-4037	428.00	J-2184	J-2185	8	110	1
P-4036	374.00	J-76	J-2184	8	110	1
P-4035	657.00	J-2094	J-2165	14	110	684
P-4034	135.00	J-2183	J-646	8	110	6
P-3531	1,433.00	J-2165	J-403	14	110	527
P-3534	183.00	J-1150	J-2166	8	110	0
P-3514	119.00	1616-B	J-1116	12	110	612
P-3513	112.00	J-1893	1616-A	12	110	612
P-3512	466.00	J-87	J-86	12	110	236
P-3511	76.00	1615-B	J-621	8	110	0
P-3510	132.00	J-1254	1615-A	8	110	0
P-3509	161.00	1614-A	J-1127	8	110	-69
P-3508	117.00	J-1745	1614-B	8	110	-69
P-3507	31.00	1613-B	J-856	12	110	0
P-3506	31.00	J-1947	1613-A	12	110	0
P-3505	35.00	1612-B	J-1450	12	110	0
P-3504	23.00	J-1833	1612-A	12	110	0
P-3501	81.00	1596-A	J-31	12	110	0
P-3498	722.00	J-34	1596-B	12	110	0
P-3497	355.00	1611-B	J-949	12	110	0
P-3496	74.00	J-2072	1611-A	12	110	0
P-3495	24.00	J-2163	J-38	60	110	9,857
P-3494	463.00	J-2162	J-100	8	110	-5
P-3493	52.00	J-2162	J-99	8	110	-27
P-3492	2,386.00	J-321	J-2162	8	110	-21
P-3491	248.00	J-2161	J-321	12	110	-4
P-3490	224.00	1606-B	J-2161	12	110	0

EXISTING SYSTEM
PIPE TABLE

Label	Length (ft)	Start Node	Stop Node	Diameter (in)	Hazen-Williams C	Flow (gpm)
P-3487	369.00	J-2117	J-28	16	110	1,124
P-3486	1,887.00	J-290	J-2117	16	110	1,124
P-3484	1,599.00	J-387	J-2094	14	110	684
P-3444	367.00	J-1792	J-26	12	110	303
P-3443	292.00	J-20	J-1792	12	110	315
P-3442	509.00	J-2080	J-1781	12	110	-105
P-3441	1,365.00	J-1781	J-106	12	110	-195
P-3439	4,311.00	J-763	J-107	30	110	5,167
P-3438	953.00	J-106	J-763	30	110	5,107
P-3437	281.00	J-1114	J-1939	12	110	-39
P-3435	322.00	J-1114	1601-A	12	110	0
P-3436	302.00	J-1939	J-319	12	110	-88
P-3434	430.00	J-1849	J-31	12	110	-319
P-3433	418.00	J-319	J-1849	12	110	-187
P-3432	243.00	J-1838	J-645	12	110	-151
P-3430	163.00	J-39	J-1838	12	110	-191
P-2084	314.00	J-1838	J-1928	8	110	-42
P-3431	876.00	J-645	J-112	12	110	-158
P-3429	392.00	J-999	J-112	12	110	235
P-3428	925.00	J-320	J-999	12	110	195
P-3427	286.00	J-785	J-320	12	110	-95
P-3426	259.00	J-33	J-785	12	110	23
P-3425	504.00	J-1391	J-33	12	110	27
P-3424	460.00	J-1225	J-1391	12	110	33
P-3423	648.00	J-502	J-1225	12	110	44
P-3422	362.00	J-1236	J-1721	12	110	-162
P-3420	2,027.00	J-32	J-1236	12	110	-197
P-3421	183.00	J-1721	J-502	12	110	-173
P-3419	250.00	J-1029	1600-A	12	110	0
P-3418	104.00	J-40	J-1029	12	110	-39
P-3416	265.00	J-1556	J-1146	12	110	216
P-3415	304.00	J-1902	J-1556	12	110	250
P-3414	877.00	J-720	J-1902	12	110	342
P-3413	459.00	J-1217	J-720	12	110	621
P-3412	189.00	J-811	J-1217	12	110	598
P-3411	242.00	J-850	J-811	12	110	610
P-3410	75.00	J-1543	J-850	12	110	623
P-3409	1,133.00	J-1126	J-28	16	110	-1,122
P-3408	214.00	J-111	J-1126	16	110	-365
P-3399	493.00	J-705	J-1180	12	110	-60
P-3392	380.00	J-332	J-705	12	110	-36
P-3407	963.00	J-689	J-337	12	110	-54
P-3406	350.00	J-336	J-689	12	110	-37
P-3405	322.00	J-1124	J-624	12	110	-52
P-3403	676.00	J-337	J-1124	12	110	-60

EXISTING SYSTEM
PIPE TABLE

Label	Length (ft)	Start Node	Stop Node	Diameter (in)	Hazen-Williams C	Flow (gpm)
P-3404	230.00	J-624	J-1756	12	110	-59
P-3402	296.00	J-1756	J-1261	12	110	-50
P-3401	483.00	J-1261	J-761	12	110	-46
P-3400	496.00	J-761	J-34	12	110	-70
P-3398	535.00	J-1646	J-1141	12	110	-84
P-3395	400.00	J-34	J-1646	12	110	-84
P-3397	319.00	J-1141	J-637	12	110	-99
P-3396	703.00	J-637	J-974	12	110	-176
P-3394	259.00	J-974	J-1767	12	110	-211
P-3393	704.00	J-1767	J-109	12	110	-275
P-3391	717.00	J-1768	J-174	8	110	-96
P-3390	804.00	J-1142	J-1768	8	110	-63
P-3389	1,521.00	J-4	J-1142	8	110	-101
P-3387	757.00	J-4	J-1262	12	110	-429
P-3386	944.00	J-1155	J-170	8	110	-115
P-3385	788.00	J-174	J-1155	8	110	-108
P-3384	312.00	J-1252	J-1263	12	110	-285
P-3380	216.00	J-294	J-1252	12	110	-344
P-3383	557.00	J-1263	J-1385	12	110	-298
P-3382	354.00	J-1385	J-1957	12	110	-366
P-3381	248.00	J-1957	J-35	12	110	-368
P-3379	466.00	J-650	J-1396	12	110	-366
P-3376	180.00	J-35	J-650	12	110	-368
P-3378	483.00	J-1396	J-1628	12	110	-374
P-3377	393.00	J-1628	J-1645	12	110	-427
P-3375	374.00	J-1645	J-1140	12	110	-436
P-3374	589.00	J-1140	J-1273	12	110	-324
P-3373	287.00	J-1273	J-2041	12	110	-474
P-3371	207.00	J-2041	J-893	12	110	-619
P-3370	187.00	J-893	J-36	12	110	-641
P-3368	2,159.00	J-2048	J-37	12	110	644
P-3367	324.00	J-1013	J-2048	12	110	647
P-3366	180.00	J-1857	J-1013	12	110	556
P-3365	856.00	J-1260	J-1857	12	110	440
P-3364	353.00	J-146	J-1260	12	110	607
P-3360	335.00	J-154	J-1254	8	110	250
P-3362	400.00	J-621	J-2032	8	110	-8
P-3361	225.00	J-2032	J-1638	8	110	-18
P-3359	232.00	J-1638	J-1951	8	110	-26
P-3358	747.00	J-1951	J-1745	8	110	-36
P-3356	252.00	J-1127	J-1633	8	110	-190
P-3355	537.00	J-1633	J-146	8	110	-204
P-3353	337.00	J-767	J-146	12	110	824
P-3352	390.00	J-1762	J-767	12	110	847
P-3351	972.00	J-1134	J-1762	12	110	645

EXISTING SYSTEM
PIPE TABLE

Label	Length (ft)	Start Node	Stop Node	Diameter (in)	Hazen-Williams C	Flow (gpm)
P-3350	272.00	J-1511	J-1134	12	110	706
P-3349	420.00	J-155	J-1511	12	110	714
P-3348	307.00	J-802	J-102	12	110	20
P-3347	1,722.00	J-101	J-802	12	110	45
P-3346	739.00	J-1977	J-101	8	110	-26
P-3345	1,271.00	J-312	J-1977	8	110	-2
P-3344	486.00	J-656	J-85	18	110	428
P-3343	568.00	J-143	J-656	18	110	599
P-3342	364.00	J-1681	J-143	18	110	625
P-3341	438.00	J-1040	J-1681	18	110	693
P-3340	727.00	J-128	J-1040	18	110	771
P-3339	493.00	J-1439	J-118	8	110	-150
P-3338	417.00	J-907	J-1439	8	110	-155
P-1708	196.00	J-1032	J-1439	6	110	11
P-3337	460.00	J-1912	J-907	6	110	-62
P-3336	741.00	J-741	J-1912	6	110	-26
P-3335	433.00	J-127	J-741	6	110	39
P-3334	446.00	J-829	J-127	8	110	30
P-3333	481.00	J-1986	J-829	6	110	34
P-3332	436.00	J-1230	J-1986	6	110	16
P-3331	482.00	J-839	J-1230	8	110	11
P-3330	450.00	J-1568	J-839	8	110	13
P-3329	473.00	J-145	J-1568	6	110	11
P-3328	396.00	J-1682	J-126	12	110	152
P-3327	383.00	J-1178	J-1682	12	110	224
P-3326	380.00	J-1300	J-1178	12	110	205
P-3325	326.00	J-85	J-1300	12	110	209
P-3324	498.00	J-1306	J-1312	12	110	281
P-3322	1,321.00	J-15	J-1306	12	110	337
P-3323	938.00	J-1312	J-87	12	110	257
P-3321	471.00	J-1619	J-16	8	110	38
P-3320	435.00	J-87	J-1619	8	110	-16
P-3319	157.00	J-910	J-97	12	110	-195
P-3318	301.00	J-121	J-910	12	110	-191
P-3317	209.00	J-1175	J-97	8	110	196
P-3316	240.00	J-1795	J-1175	8	110	132
P-3315	373.00	J-152	J-1795	8	110	205
P-3314	308.00	J-1305	J-149	8	110	-130
P-3313	273.00	J-95	J-1305	8	110	-84
P-3312	513.00	J-1429	J-95	12	110	-77
P-3311	588.00	J-803	J-1429	12	110	-53
P-3301	334.00	J-94	J-803	12	110	-43
P-3310	533.00	J-1417	J-1288	8	110	23
P-3309	1,082.00	J-92	J-1417	8	110	27
P-3308	1,358.00	J-1288	J-273	8	110	17

EXISTING SYSTEM
PIPE TABLE

Label	Length (ft)	Start Node	Stop Node	Diameter (in)	Hazen-Williams C	Flow (gpm)
P-3307	231.00	J-1173	J-1779	8	110	-7
P-3305	583.00	J-273	J-1173	8	110	15
P-3306	242.00	J-1779	J-1420	8	110	-19
P-3304	252.00	J-1420	J-1552	8	110	-28
P-3303	257.00	J-1552	J-1541	8	110	-38
P-3302	543.00	J-1541	J-94	8	110	-27
P-3300	805.00	J-1915	J-92	12	110	-67
P-3299	326.00	J-94	J-1915	12	110	-55
P-3298	354.00	J-1890	J-94	12	110	-67
P-3297	1,027.00	J-93	J-1890	12	110	-44
P-140	346.00	J-91	J-93	12	110	41
P-3296	163.00	J-1231	J-197	12	110	-616
P-3292	437.00	J-1501	J-90	12	110	-555
P-3291	175.00	J-1874	J-1501	12	110	-540
P-3290	476.00	J-1080	J-1874	12	110	-540
P-3289	256.00	J-89	J-1080	12	110	-540
P-3287	628.00	J-1196	J-2072	30	110	6,026
P-3285	484.00	J-1486	J-1925	14	110	479
P-3283	714.00	J-122	J-1486	14	110	553
P-3284	176.00	J-1925	J-123	14	110	693
P-3282	266.00	J-721	J-17	8	110	5
P-3281	260.00	J-807	J-721	8	110	-27
P-3280	246.00	J-199	J-807	8	110	-22
P-3279	169.00	J-824	J-199	8	110	-21
P-3278	268.00	J-29	J-824	8	110	-19
P-3277	778.00	J-2027	J-29	8	110	-1
P-3276	611.00	J-1309	J-2027	8	110	26
P-3273	247.00	J-1788	J-1309	8	110	46
P-3275	321.00	J-1824	J-124	12	110	-287
P-3274	688.00	J-120	J-1824	12	110	-436
P-3272	167.00	J-124	J-1788	8	110	101
P-3271	631.00	J-1593	J-144	8	110	61
P-3266	491.00	J-142	J-1593	8	110	237
P-3270	1,279.00	J-1604	J-1073	8	110	248
P-3258	291.00	J-144	J-1604	8	110	255
P-3269	73.00	J-1308	J-71	12	110	852
P-3268	784.00	J-70	J-1308	12	110	1,165
P-3267	587.00	J-1073	J-1076	8	110	140
P-3265	205.00	J-1194	J-71	8	110	-197
P-3263	597.00	J-1942	J-1194	8	110	-146
P-3264	562.00	J-1076	J-159	8	110	162
P-3262	544.00	J-1584	J-1942	8	110	-130
P-3261	1,132.00	J-805	J-1281	12	110	-565
P-3259	971.00	J-122	J-805	12	110	-791
P-3260	509.00	J-1281	J-72	12	110	-503

EXISTING SYSTEM
PIPE TABLE

Label	Length (ft)	Start Node	Stop Node	Diameter (in)	Hazen-Williams C	Flow (gpm)
P-3257	401.00	J-159	J-1584	8	110	62
P-3256	848.00	J-1208	J-72	12	110	37
P-3255	283.00	J-1488	J-1208	12	110	-40
P-3254	298.00	J-160	J-1488	12	110	23
P-3253	280.00	J-1494	J-305	12	110	0
P-3252	876.00	J-72	J-1494	12	110	177
P-3251	397.00	J-1311	J-2020	8	110	51
P-3249	889.00	J-157	J-1311	8	110	165
P-3250	246.00	J-2020	J-140	8	110	48
P-3248	254.00	J-1296	J-140	8	110	-78
P-3247	843.00	J-900	J-1296	8	110	-75
P-3246	477.00	J-1955	J-900	8	110	-117
P-3245	270.00	J-66	J-1955	8	110	-198
P-3244	729.00	J-1266	J-120	8	110	212
P-3243	318.00	J-142	J-1266	8	110	220
P-3242	292.00	J-1285	J-66	12	110	267
P-3241	879.00	J-1427	J-1285	12	110	310
P-3240	294.00	J-26	J-1427	12	110	316
P-3239	151.00	J-2079	J-1354	12	110	-329
P-3235	188.00	J-20	J-2079	12	110	-316
P-3238	255.00	J-1354	J-1761	12	110	-282
P-3237	266.00	J-1761	J-2069	12	110	-272
P-3236	717.00	J-2069	J-156	12	110	-303
P-3234	257.00	J-1985	J-157	12	110	-344
P-3233	612.00	J-156	J-1985	12	110	-210
P-3232	291.00	J-1243	J-156	8	110	100
P-3231	446.00	J-164	J-1243	8	110	60
P-3230	303.00	J-744	J-164	8	110	63
P-3229	449.00	J-163	J-744	8	110	66
P-3228	169.00	J-1151	J-163	8	110	125
P-3227	249.00	J-116	J-1151	8	110	80
P-3226	588.00	J-1814	J-58	12	110	7
P-3225	445.00	J-134	J-1814	12	110	21
P-3224	905.00	J-1327	J-134	12	110	681
P-3223	311.00	J-2046	J-1327	12	110	600
P-3222	160.00	J-1751	J-2046	12	110	609
P-3214	224.00	J-946	J-1751	12	110	217
P-3209	355.00	J-1509	J-946	12	110	229
P-3205	360.00	J-138	J-1509	12	110	234
P-3221	286.00	J-2053	J-1341	12	110	200
P-3219	333.00	J-115	J-2053	12	110	300
P-3220	282.00	J-1341	J-814	12	110	242
P-3218	397.00	J-814	J-1975	12	110	177
P-3217	423.00	J-1975	J-1643	12	110	126
P-3216	168.00	J-1643	J-830	12	110	109

EXISTING SYSTEM
PIPE TABLE

Label	Length (ft)	Start Node	Stop Node	Diameter (in)	Hazen-Williams C	Flow (gpm)
P-3215	176.00	J-830	J-1662	12	110	118
P-3213	386.00	J-1662	J-1569	12	110	108
P-3212	312.00	J-1734	J-1413	8	110	47
P-3211	1,200.00	J-115	J-1734	8	110	86
P-3210	292.00	J-1569	J-851	12	110	152
P-3208	340.00	J-1413	J-1841	8	110	41
P-3204	166.00	J-1841	J-1811	8	110	56
P-3201	300.00	J-1811	J-1019	8	110	40
P-3200	756.00	J-1019	J-1440	8	110	25
P-3198	326.00	J-851	J-1553	12	110	104
P-3197	351.00	J-1553	J-727	12	110	99
P-3194	228.00	J-727	J-113	12	110	93
P-3196	610.00	J-1440	J-113	8	110	27
P-3203	504.00	J-746	J-51	12	110	55
P-3202	504.00	J-50	J-746	12	110	68
P-3207	640.00	J-1063	J-52	12	110	25
P-3206	615.00	J-51	J-1063	12	110	41
P-1955	444.00	J-1512	J-1953	8	110	26
P-2446	396.00	J-826	J-1229	8	110	10
P-1276	1,005.00	J-935	J-1338	8	110	5
P-1797	206.00	J-1907	J-721	8	110	19
P-2001	66.00	J-604	J-1012	12	110	-464
P-1337	450.00	J-868	J-1371	8	110	7
P-1280	437.00	J-1150	J-165	8	110	-7
P-2151	332.00	J-1249	J-1140	8	110	119
P-2583	307.00	J-728	J-1735	8	110	25
P-1371	107.00	J-882	J-1298	8	110	11
P-2338	223.00	J-2002	J-1701	12	110	-24
P-1175	381.00	J-1818	J-1792	6	110	-4
P-1207	52.00	J-1176	J-1576	8	110	79
P-2263	148.00	J-825	J-1228	6	110	10
P-1033	335.00	J-1003	J-1372	8	110	5
P-1712	235.00	J-1000	J-1503	8	110	5
P-1738	144.00	J-1487	J-1861	8	110	4
P-2020	364.00	J-1725	J-808	8	110	-11
P-2490	86.00	J-1142	J-641	8	110	-47
P-1847	101.00	J-974	J-1381	8	110	30
P-1840	61.00	J-1778	J-654	8	110	3
P-1908	223	J-1550	J-818	8	110	44
P-2328	244	J-1315	J-1722	8	110	21
P-2282	139	J-1203	J-813	8	110	96
P-2276	253	J-618	J-1636	8	110	-11
P-1757	525	J-2005	J-657	8	110	21
P-2035	296	J-1534	J-1103	8	110	7
P-1721	268	J-738	J-1152	8	110	-47

EXISTING SYSTEM
PIPE TABLE

Label	Length (ft)	Start Node	Stop Node	Diameter (in)	Hazen-Williams C	Flow (gpm)
P-2532	101	J-1998	J-954	6	110	4
P-1698	255	J-2069	J-942	8	110	25
P-2253	56	J-2106	J-998	8	110	29
P-957	361	J-837	J-1242	8	110	38
P-1457	61	J-931	J-2058	8	110	-4
P-1050	274	J-742	J-1743	8	110	9
P-1196	313	J-1873	J-1194	8	110	47
P-1984	479	J-1972	J-906	8	110	15
P-1066	325	J-1213	J-1613	8	110	88
P-2477	193	J-844	J-1251	8	110	-21
P-1711	204	J-1180	J-1426	8	110	-36
P-2283	60	J-1478	J-1851	8	110	-64
P-1074	82	J-2015	J-1283	8	110	91
P-1299	240	J-962	J-1365	8	110	104
P-2177	180	J-1197	J-1862	8	110	35
P-1574	61	J-1358	J-1271	8	110	61
P-1588	199	J-1237	J-1651	12	110	205
P-2442	120	J-1073	J-1410	8	110	90
P-1987	50	J-1057	J-1461	8	110	-6
P-1565	61	J-1080	J-691	8	110	0
P-2144	302	J-1035	J-746	8	110	-6
P-1693	340	J-1006	J-1414	8	110	10
P-1274	268	J-959	J-653	12	110	22
P-1103	77	J-720	J-1680	8	110	128
P-2528	50	J-959	J-1359	12	110	-1
P-2550	224	J-1231	J-1893	12	110	614
P-2293	226	J-864	J-1582	8	110	12
P-1952	150	J-603	J-1424	8	110	11
P-1999	242	J-1670	J-121	8	110	-13
P-2004	15	J-964	J-1367	12	110	50
P-1831	150	J-1695	J-2007	8	110	-37
P-1229	317	J-1374	J-1775	8	110	16
P-907	224	J-1059	J-1462	8	110	6
P-1198	390	J-1319	J-1726	8	110	54
P-1904	53	J-1810	J-1442	12	110	63
P-1575	131	J-1410	J-981	8	110	79
P-1006	173	J-1753	J-619	8	110	-48
P-1243	285	J-1665	J-934	8	110	91
P-1097	321	J-921	J-1323	8	110	1
P-992	392	J-627	J-1644	8	110	138
P-1602	128	J-785	J-1598	12	110	30
P-2028	219	J-822	J-1739	8	110	10
P-1821	277	J-1280	J-1692	12	110	-10
P-1080	455	J-1608	J-653	12	110	-25
P-1807	356	J-1726	J-2033	8	110	50

EXISTING SYSTEM
PIPE TABLE

Label	Length (ft)	Start Node	Stop Node	Diameter (in)	Hazen-Williams C	Flow (gpm)
P-1471	210	J-1283	J-1695	8	110	81
P-1514	200	J-873	J-50	8	110	-10
P-1195	488	J-1168	J-1572	8	110	-52
P-1837	313	J-1272	J-644	8	110	10
P-1926	216	J-1076	J-1478	8	110	-62
P-2627	82	J-1875	J-685	8	110	8
P-2476	340	J-835	J-1060	8	110	21
P-1740	247	J-1446	J-1573	8	110	-31
P-1200	153	J-1019	J-1353	6	110	9
P-2161	314	J-1172	J-1575	8	110	35
P-1658	74	J-1365	J-652	8	110	4
P-1649	365	J-1678	J-2064	8	110	8
P-1347	369	J-1462	J-2074	8	110	3
P-2015	264	J-1365	J-958	8	110	97
P-1100	277	J-1479	J-869	8	110	-2
P-1462	171	J-864	J-1280	12	110	-52
P-1820	279	J-1297	J-1703	12	110	91
P-2414	117	J-1245	J-761	8	110	5
P-1924	51	J-720	J-1917	8	110	150
P-1394	385	J-1289	J-1778	8	110	7
P-1397	202	J-1808	J-2106	8	110	32
P-2626	348	J-1288	J-659	8	110	0
P-2531	276	J-1862	J-1319	8	110	56
P-1536	90	J-1722	J-2003	8	110	4
P-1099	67	J-1988	J-833	8	110	8
P-1392	345	J-846	J-122	12	110	-237
P-2530	199	J-1573	J-819	6	110	5
P-2334	72	J-927	J-1330	8	110	-75
P-1933	159	J-1453	J-664	8	110	6
P-1992	374	J-707	J-1106	8	110	18
P-1858	268	J-1854	J-664	8	110	9
P-2599	222	J-1938	J-1360	8	110	-34
P-1110	58	J-1147	J-1559	8	110	5
P-2262	362	J-818	J-1991	8	110	4
P-2014	301	J-1909	J-725	8	110	56
P-1045	52	J-1819	J-1016	12	110	58
P-2596	488	J-1053	J-1455	8	110	-58
P-949	523	J-1321	J-1075	8	110	1
P-1282	427	J-681	J-1081	8	110	-132
P-1528	63	J-1813	J-1910	8	110	31
P-1568	84	J-1515	J-801	8	110	125
P-1126	411	J-654	J-1663	8	110	-9
P-1447	260	J-779	J-789	8	110	4
P-2234	42	J-1363	J-1055	8	110	92
P-2426	192	J-2087	J-968	8	110	-33

EXISTING SYSTEM
PIPE TABLE

Label	Length (ft)	Start Node	Stop Node	Diameter (in)	Hazen-Williams C	Flow (gpm)
P-1515	454	J-1009	J-1512	8	110	27
P-936	411	J-611	J-2108	8	110	12
P-2462	466	J-1012	J-887	8	110	7
P-1128	394	J-1505	J-1948	8	110	132
P-2622	78	J-1926	J-962	8	110	106
P-2498	308	J-1108	J-1480	8	110	6
P-2287	222	J-1394	J-679	8	110	7
P-2018	96	J-1100	J-1513	8	110	126
P-1979	74	J-2051	J-927	8	110	-65
P-1795	434	J-718	J-1122	12	110	66
P-1545	67	J-1934	J-1756	8	110	9
P-1563	53	J-964	J-1282	8	110	-10
P-1189	525	J-2014	J-869	12	110	28
P-2624	181	J-1306	J-1711	8	110	57
P-1266	339	J-1118	J-736	8	110	-32
P-2311	251	J-1915	J-1047	8	110	6
P-1505	374	J-1833	J-1905	12	110	-205
P-972	63	J-834	J-1240	8	110	-4
P-1838	60	J-816	J-1146	8	110	-21
P-1701	344	J-1191	J-1712	8	110	16
P-1787	473	J-1675	J-1037	8	110	5
P-2335	392	J-991	J-611	8	110	14
P-1906	195	J-1710	J-975	8	110	-163
P-2288	183	J-910	J-1786	8	110	2
P-2126	309	J-862	J-650	8	110	0
P-2612	64	J-818	J-837	8	110	39
P-1355	285	J-2038	J-1000	8	110	37
P-1082	239	J-2000	J-1070	8	110	12
P-1302	166	J-1851	J-683	8	110	9
P-915	51	J-1334	J-1457	6	110	19
P-1156	61	J-1896	J-708	8	110	2
P-1682	254	J-703	J-1327	8	110	86
P-1666	303	J-1452	J-1826	8	110	29
P-1925	254	J-801	J-1203	8	110	142
P-1812	335	J-1148	J-1560	8	110	80
P-1517	191	J-1948	J-1002	8	110	119
P-1552	282	J-1068	J-1471	8	110	50
P-1551	139	J-2020	J-2102	6	110	1
P-1314	108	J-781	J-1279	8	110	-88
P-1460	60	J-1110	J-624	8	110	9
P-946	169	J-1360	J-1834	8	110	-66
P-2650	299	J-1591	J-1932	8	110	38
P-1449	148	J-1708	J-758	8	110	1
P-2579	200	J-1373	J-767	8	110	-1
P-1023	514	J-2044	J-1009	8	110	29

EXISTING SYSTEM
PIPE TABLE

Label	Length (ft)	Start Node	Stop Node	Diameter (in)	Hazen-Williams C	Flow (gpm)
P-2323	285	J-1328	J-656	8	110	-77
P-1796	376	J-730	J-1234	8	110	13
P-2582	479	J-1300	J-1340	8	110	-47
P-1146	394	J-1482	J-1855	8	110	-77
P-1467	41	J-1975	J-1375	8	110	8
P-1679	61	J-1092	J-1500	8	110	6
P-1221	64	J-1847	J-657	8	110	7
P-1087	199	J-699	J-1900	12	110	-453
P-1234	194	J-603	J-1011	8	110	-4
P-1580	54	J-1221	J-1966	8	110	39
P-2189	409	J-2098	J-1812	8	110	35
P-1626	488	J-1898	J-712	6	110	19
P-1466	104	J-1613	J-1955	8	110	86
P-1063	42	J-1908	J-724	8	110	-82
P-1485	61	J-1229	J-919	8	110	5
P-1283	308	J-1111	J-1239	8	110	11
P-1561	361	J-1095	J-1502	8	110	-42
P-2536	396	J-958	J-1182	8	110	-145
P-1359	451	J-1763	J-289	8	110	29
P-2545	499	J-1221	J-1625	8	110	4
P-1805	129	J-2001	J-2099	8	110	133
P-1584	254	J-657	J-1060	8	110	25
P-1440	61	J-1836	J-757	8	110	54
P-2495	274	J-1246	J-1745	8	110	-22
P-1803	351	J-632	J-1044	6	110	-4
P-2075	240	J-675	J-809	8	110	93
P-1344	247	J-1575	J-1191	8	110	24
P-2357	362	J-1905	J-1999	12	110	-214
P-2315	309	J-2048	J-870	12	110	0
P-2510	459	J-1561	J-1658	8	110	12
P-2321	270	J-1816	J-605	8	110	-46
P-1673	226	J-1969	J-901	8	110	-70
P-2302	422	J-1326	J-1730	8	110	-7
P-1910	19	J-1983	J-825	8	110	40
P-1814	58	J-1312	J-1720	8	110	5
P-2112	271	J-1219	J-1012	8	110	86
P-2512	63	J-2068	J-945	8	110	6
P-2421	31	J-1046	J-1450	12	110	-11
P-1310	93	J-627	J-1634	8	110	100
P-1348	149	J-621	J-1121	8	110	4
P-1612	255	J-1301	J-1708	8	110	15
P-2540	46	J-1709	J-784	8	110	-47
P-1256	57	J-1668	J-938	8	110	6
P-2609	480	J-1355	J-730	8	110	19
P-2340	73	J-1113	J-907	6	110	6

EXISTING SYSTEM
PIPE TABLE

Label	Length (ft)	Start Node	Stop Node	Diameter (in)	Hazen-Williams C	Flow (gpm)
P-1483	53	J-1900	J-714	12	110	-454
P-2104	162	J-1737	J-921	8	110	15
P-2659	214	J-666	J-1544	8	110	21
P-2246	278	J-1825	J-2016	8	110	-31
P-2010	54	J-1068	J-1053	8	110	-54
P-1264	412	J-1340	J-1742	8	110	-51
P-1320	192	J-1394	J-1092	8	110	62
P-2227	140	J-1286	J-1440	8	110	13
P-1192	208	J-803	J-1678	8	110	12
P-2639	105	J-1534	J-1892	8	110	96
P-1395	58	J-1566	J-2005	8	110	24
P-1286	34	J-797	J-1198	8	110	-19
P-2347	225	J-629	J-57	8	110	-126
P-2107	68	J-1673	J-846	8	110	-10
P-1153	307	J-1437	J-2062	8	110	5
P-969	266	J-1368	J-1772	8	110	3
P-2469	54	J-1595	J-1937	8	110	309
P-1809	299	J-777	J-1172	8	110	43
P-2637	343	J-1764	J-948	8	110	17
P-2190	63	J-2092	J-1098	8	110	-9
P-1501	432	J-1459	J-1072	8	110	48
P-1965	43	J-1340	J-1328	8	110	-74
P-1288	369	J-1023	J-1530	8	110	9
P-1010	391	J-301	J-1830	8	110	4
P-1008	450	J-821	J-1227	8	110	19
P-1735	138	J-728	J-1233	8	110	2
P-2525	208	J-1280	J-2014	12	110	31
P-2341	48	J-1886	J-693	12	110	54
P-1071	43	J-1235	J-1843	8	110	16
P-1667	445	J-1634	J-634	8	110	96
P-912	346	J-1661	J-2052	8	110	2
P-1448	143	J-56	J-1048	8	110	-1
P-1057	353	J-2108	J-1110	8	110	11
P-2101	378	J-1142	J-1647	8	110	7
P-1007	333	J-1105	J-2095	8	110	10
P-1340	138	J-1604	J-1950	8	110	4
P-1892	122	J-91	J-1287	8	110	-50
P-2205	493	J-1887	J-798	8	110	-9
P-1493	283	J-869	J-1854	8	110	12
P-1692	233	J-1912	J-1577	6	110	27
P-1372	24	J-693	J-1357	8	110	72
P-2459	341	J-850	J-1264	8	110	10
P-2587	424	J-2031	J-988	8	110	46
P-1539	81	J-991	J-1495	8	110	-23
P-1981	174	J-637	J-986	8	110	41

EXISTING SYSTEM
PIPE TABLE

Label	Length (ft)	Start Node	Stop Node	Diameter (in)	Hazen-Williams C	Flow (gpm)
P-2169	33	J-1540	J-1033	8	110	-40
P-2274	372	J-320	J-1875	12	110	23
P-1651	364	J-1255	J-1674	8	110	2
P-1969	52	J-777	J-1186	8	110	58
P-2606	285	J-1481	J-1853	8	110	57
P-1258	209	J-886	J-1301	8	110	-32
P-1322	461	J-1892	J-703	8	110	92
P-2074	38	J-1152	J-1561	8	110	-50
P-1996	550	J-1617	J-2023	8	110	-7
P-2157	144	J-2033	J-900	8	110	47
P-932	305	J-1349	J-1769	8	110	-4
P-1273	434	J-1099	J-1234	8	110	-1
P-1154	268	J-1688	J-896	8	110	16
P-1354	51	J-1014	J-1426	8	110	74
P-991	56	J-934	J-1039	8	110	36
P-2364	159	J-838	J-1243	8	110	48
P-1332	300	J-1309	J-1006	8	110	15
P-1115	240	J-1937	J-771	8	110	287
P-2508	319	J-983	J-1398	8	110	-105
P-2085	177	J-1704	J-2015	8	110	132
P-1581	215	J-1758	J-2066	8	110	15
P-2631	239	J-1435	J-1817	8	110	35
P-2638	120	J-679	J-1079	8	110	4
P-1093	463	J-1937	J-855	8	110	10
P-930	395	J-1879	J-779	8	110	-7
P-1217	305	J-951	J-1758	8	110	17
P-2617	255	J-1427	J-1809	6	110	3
P-1894	344	J-1705	J-1825	8	110	-23
P-2544	442	J-2002	J-1051	8	110	9
P-2524	256	J-694	J-999	8	110	53
P-1947	469	J-2079	J-955	8	110	10
P-1705	49	J-2074	J-1835	8	110	9
P-1	136	J-2165	J-325	8	110	158
P-2	415	J-1834	J-1	8	110	-75
P-3	246	J-1	J-2	8	110	-51
P-4	350	J-2	J-2093	8	110	-51
P-5	949	J-1	J-1381	8	110	-23
P-6	499	J-1262	J-4	12	110	-444
P-7	694	J-4	J-310	12	110	-512
P-9	482	J-109	J-5	6	110	-68
P-10	970	J-5	J-4	6	110	-68
P-11	354	J-5	J-3	6	110	0
P-12	552	J-1721	J-7	6	110	-9
P-13	458	J-7	J-8	6	110	-9
P-14	235	J-8	J-9	6	110	0

EXISTING SYSTEM
PIPE TABLE

Label	Length (ft)	Start Node	Stop Node	Diameter (in)	Hazen-Williams C	Flow (gpm)
P-15	551	J-8	J-10	6	110	-9
P-16	205	J-10	J-11	6	110	-9
P-17	155	J-11	J-1029	6	110	-9
P-18	85	J-103	PRV-MH	12	110	6
P-19	86	PRV-MH	J-48	12	110	6
P-21	143	J-2241	PRV-EC5	12	110	0
P-22	156	PRV-EC5	J-2218	12	110	0

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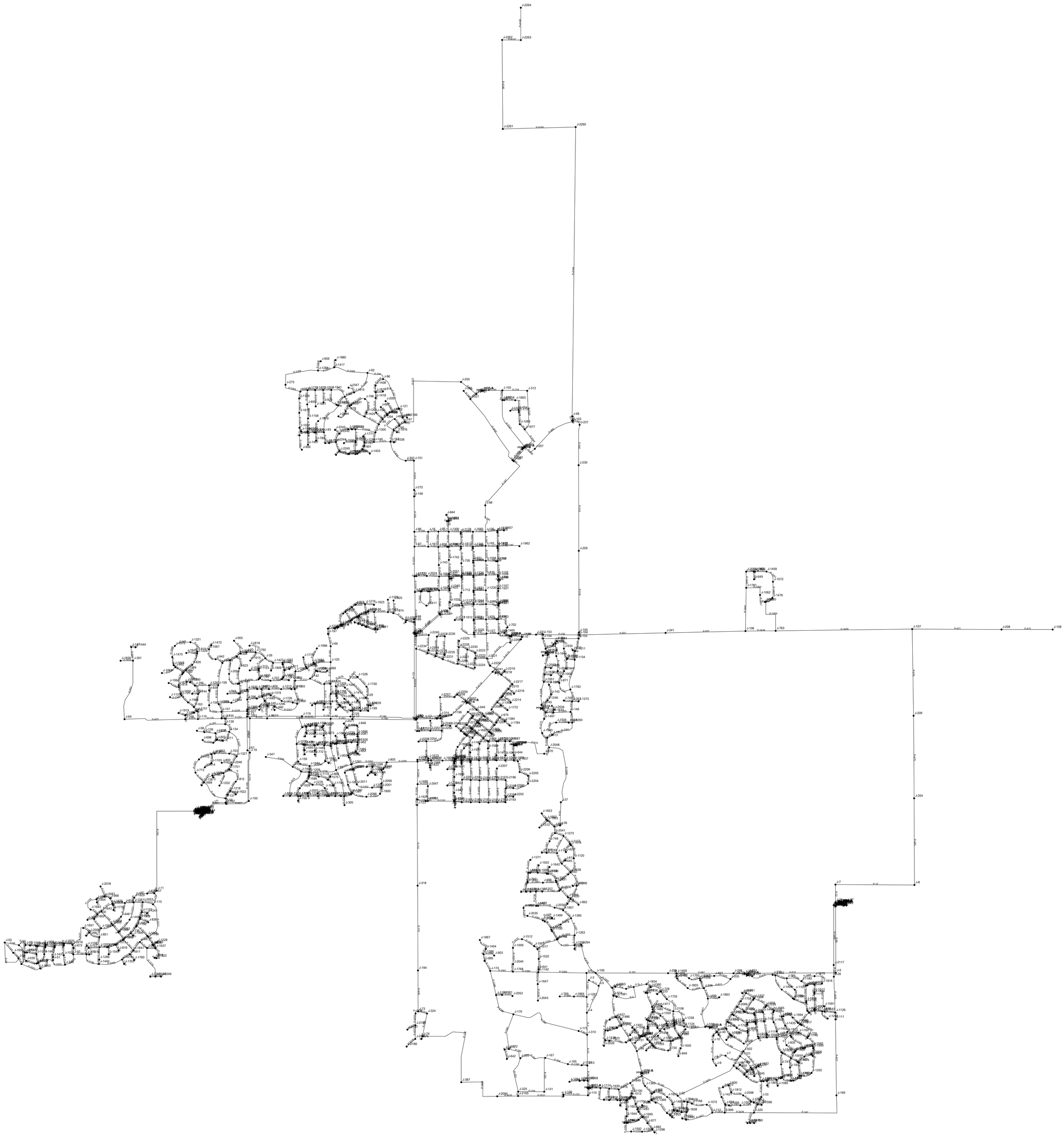
EXISTING WATER SYSTEM



PROPOSED SYSTEM
NODE TABLE

Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
294	5,090.00	0	5,317.47	98.6
293	5,090.00	0	5,317.60	98.6
292	5,075.00	0	5,318.00	105.3
291	5,090.00	0	5,318.05	98.8
290	5,090.00	0	5,500.49	177.9
289	5,090.00	0	5,500.49	177.9
288	5,090.00	0	5,305.81	93.5
287	5,090.00	0	5,303.36	92.4
106	5,030.00	0	5,170.79	61
286	5,235.00	0	5,307.18	31.3
285	4,970.00	0	5,170.63	86.9
284	5,160.00	0	5,320.45	69.5
283	5,160.00	0	5,320.45	69.5
282	5,165.00	0	5,320.57	67.4
281	5,130.00	0	5,312.40	79.00
280	5,160.00	0	5,311.16	65.50
279	5,200.00	0	5,495.19	127.90
278	5,200.00	0	5,495.19	127.9
274	5,210.00	0	5,495.18	123.6
277	5,198.00	0	5,325.33	55.2
276	5,198.00	0	5,325.34	55.2
275	5,198.00	0	5,192.78	-2.3
273	5,068.00	0	5,316.78	107.8
J-2269	5,134.00	0	5,320.67	80.9
J-2270	5,067.00	0	5,182.81	50.2
272	5,070.00	0	5,315.48	106.4
271	5,190.00	0	5,321.84	57.1
270	5,100.00	0	5,311.52	91.7
269	5,200.00	92	5,309.98	47.7
268	5,150.00	92	5,310.61	69.6
267	4,980.00	0	5,178.15	85.9
266	4,990.00	0	5,175.36	80.3
265	5,260.00	0	5,309.58	21.5
264	5,215.00	22	5,308.96	40.7
263	5,180.00	22	5,309.66	56.2
262	5,220.00	44	5,310.04	39
261	5,135.00	0	5,310.40	76
260	5,175.00	44	5,310.82	58.9
259	5,170.00	157	5,308.02	59.8
258	5,160.00	285	5,305.14	62.9
257	5,185.00	285	5,305.19	52.1
256	5,160.00	285	5,305.16	62.9
255	5,200.00	285	5,306.96	46.3
254	5,210.00	39	5,306.20	41.7
253	5,170.00	105	5,305.90	58.9

PROPOSED SYSTEM
NODE TABLE

Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
252	5,150.00	105	5,305.41	67.3
251	5,150.00	105	5,305.36	67.3
250	5,185.00	105	5,305.59	52.3
249	5,100.00	65	5,309.04	90.6
248	5,110.00	3	5,308.68	86.1
247	5,100.00	174	5,306.25	89.4
246	5,100.00	69	5,306.23	89.4
245	5,100.00	0	5,306.24	89.4
244	5,090.00	3	5,305.54	93.4
243	5,080.00	0	5,305.54	97.7
242	5,080.00	60	5,305.43	97.7
241	5,085.00	20	5,305.43	95.5
240	5,085.00	20	5,305.40	95.5
239	5,140.00	285	5,305.02	71.5
238	5,120.00	47	5,305.41	80.3
237	5,130.00	19	5,305.40	76
236	5,115.00	19	5,305.40	82.5
235	5,095.00	47	5,305.40	91.2
234	5,130.00	47	5,305.46	76
220	5,100.00	60	5,305.59	89.1
233	5,045.00	0	5,305.36	112.8
232	5,065.00	21	5,305.25	104.1
231	5,040.00	21	5,305.27	114.9
230	5,050.00	21	5,305.26	110.6
229	5,060.00	21	5,305.27	106.3
228	5,045.00	21	5,305.25	112.8
227	5,030.00	0	5,305.27	119.3
226	5,040.00	21	5,305.25	114.9
225	5,060.00	21	5,305.25	106.3
224	5,070.00	21	5,305.25	101.9
223	5,055.00	21	5,305.25	108.4
222	5,060.00	21	5,305.25	106.3
221	5,085.00	21	5,305.27	95.4
219	5,045.00	0	5,170.79	54.5
218	5,080.00	241	5,302.88	96.6
217	5,105.00	284	5,302.93	85.8
216	5,170.00	416	5,305.16	58.6
215	5,130.00	131	5,304.64	75.7
214	5,110.00	131	5,304.56	84.3
213	5,010.00	522	5,166.28	67.7
212	5,040.00	0	5,170.32	56.5
211	5,045.00	111	5,169.17	53.8
210	5,050.00	0	5,171.80	52.8
209	5,000.00	200	5,169.80	73.6
208	4,990.00	273	5,170.06	78

PROPOSED SYSTEM
NODE TABLE

Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
207	5,070.00	18	5,302.99	101
206	5,060.00	241	5,302.61	105.1
205	5,070.00	284	5,302.65	100.8
204	5,095.00	131	5,304.06	90.6
203	5,075.00	131	5,304.06	99.3
202	5,140.00	148	5,304.80	71.4
201	5,070.00	79	5,167.96	42.4
200	5,060.00	79	5,167.80	46.7
199	5,060.00	79	5,167.82	46.7
198	5,030.00	79	5,167.78	59.7
197	5,035.00	74	5,167.82	57.6
196	5,020.00	108	5,166.70	63.6
195	4,980.00	0	5,173.25	83.7
194	5,020.00	37	5,170.79	65.3
193	5,040.00	0	5,170.07	56.4
192	5,070.00	74	5,168.90	42.9
191	5,057.00	0	5,167.41	47.8
190	5,030.00	0	5,168.35	59.9
189	5,040.00	411	5,167.44	55.2
188	5,030.00	55	5,167.07	59.4
187	5,043.00	207	5,167.04	53.7
186	5,025.00	810	5,166.30	61.2
185	5,010.00	0	5,168.84	68.8
184	5,000.00	110	5,167.41	72.5
183	4,990.00	126	5,166.77	76.6
182	5,030.00	126	5,166.28	59
181	4,970.00	126	5,166.02	84.9
180	4,980.00	126	5,166.20	80.7
179	4,960.00	126	5,166.55	89.5
178	4,950.00	104	5,167.79	94.4
177	4,930.00	126	5,166.99	102.7
176	4,940.00	0	5,169.16	99.3
175	5,000.00	19	5,169.34	73.4
174	4,950.00	36	5,169.82	95.2
173	5,000.00	17	5,179.66	77.8
172	5,000.00	0	5,176.82	76.6
171	5,010.00	0	5,179.55	73.5
170	5,010.00	156	5,179.73	73.5
169	5,010.00	0	5,179.88	73.6
168	5,010.00	10	5,179.63	73.5
167	5,010.00	10	5,179.67	73.5
166	5,010.00	13	5,179.73	73.5
165	5,010.00	13	5,179.69	73.5
164	5,050.00	126	5,180.26	56.4
163	5,010.00	121	5,179.72	73.5

PROPOSED SYSTEM
NODE TABLE

Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
162	5,050.00	200	5,180.28	56.5
161	5,010.00	0	5,180.40	73.8
160	5,035.00	140	5,180.44	63
159	5,010.00	43	5,181.66	74.4
158	5,005.00	26	5,180.78	76.2
157	5,055.00	27	5,180.31	54.3
156	5,070.00	27	5,180.39	47.8
155	5,050.00	14	5,184.53	58.3
154	5,030.00	15	5,183.52	66.5
153	5,020.00	65	5,182.91	70.6
152	5,020.00	31	5,183.41	70.8
151	5,020.00	20	5,183.43	70.8
150	5,030.00	15	5,183.45	66.5
149	5,090.00	43	5,318.63	99.1
148	5,095.00	0	5,318.77	97
147	5,080.00	34	5,318.37	103.3
146	5,075.00	34	5,318.44	105.5
145	5,070.00	101	5,318.44	107.6
144	5,085.00	18	5,318.52	101.2
143	5,060.00	49	5,180.72	52.3
142	5,060.00	0	5,180.89	52.4
141	5,070.00	14	5,180.56	47.9
140	5,085.00	26	5,318.52	101.2
139	5,085.00	18	5,318.56	101.2
138	5,090.00	11	5,318.21	98.9
137	5,090.00	14	5,318.48	99
136	5,090.00	95	5,318.20	98.9
135	5,050.00	27	5,180.41	56.5
134	5,090.00	34	5,318.56	99
133	5,050.00	34	5,318.56	116.4
132	5,055.00	0	5,318.59	114.2
131	5,070.00	0	5,318.60	107.7
130	5,055.00	65	5,318.58	114.2
129	5,085.00	65	5,318.59	101.2
128	5,110.00	65	5,318.65	90.4
127	5,130.00	65	5,318.75	81.8
126	5,100.00	65	5,318.59	94.7
125	5,050.00	0	5,318.58	116.4
124	5,030.00	33	5,318.55	125
89	5,045.00	33	5,318.55	118.5
63	5,105.00	10	5,320.85	93.5
62	5,070.00	12	5,320.85	108.7
61	5,070.00	12	5,320.85	108.7
123	5,220.00	2	5,481.67	113.4
122	5,100.00	0	5,319.53	95.1

PROPOSED SYSTEM
NODE TABLE

Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
121	5,120.00	0	5,319.49	86.4
120	5,170.00	0	5,321.89	65.8
119	5,090.00	374	5,318.66	99.1
118	5,150.00	0	5,320.48	73.9
117	5,215.00	0	5,322.77	46.7
116	5,050.00	0	5,315.25	114.9
115	5,085.00	158	5,317.87	100.9
114	5,200.00	52	5,495.56	128.1
113	5,225.00	200	5,495.70	117.3
112	5,200.00	96	5,495.20	127.9
111	5,290.00	557	5,495.12	88.9
110	5,210.00	20	5,495.19	123.6
109	5,200.00	361	5,496.72	128.6
108	5,235.00	57	5,495.47	112.9
107	5,260.00	20	5,495.30	102
105	5,280.00	0	5,499.89	95.3
104	5,240.00	125	5,498.04	111.8
103	5,250.00	85	5,497.98	107.4
102	5,270.00	5	5,495.65	97.8
101	5,130.00	98	5,311.52	78.7
100	5,190.00	61	5,493.66	131.6
99	5,120.00	19	5,311.52	83
98	5,170.00	322	5,311.69	61.4
97	5,135.00	0	5,308.27	75.1
96	5,135.00	87	5,308.20	75
95	5,125.00	87	5,308.06	79.3
94	5,080.00	15	5,310.95	100.1
93	5,080.00	0	5,310.26	99.8
92	5,125.00	174	5,306.96	78.8
91	5,125.00	174	5,307.51	79.1
90	5,095.00	174	5,309.06	92.8
88	5,080.00	0	5,311.35	100.2
87	5,070.00	0	5,311.63	104.7
86	5,140.00	56	5,309.20	73.3
85	5,163.00	56	5,309.36	63.4
84	5,160.00	44	5,309.82	64.9
83	5,190.00	0	5,308.51	51.4
82	5,185.00	56	5,309.19	53.8
81	5,125.00	56	5,309.21	79.8
80	5,163.00	56	5,309.20	63.3
79	5,175.00	56	5,308.68	57.9
78	5,145.00	0	5,308.72	70.9
77	5,175.00	56	5,308.70	57.9
76	5,175.00	56	5,309.17	58.1
75	5,165.00	56	5,309.18	62.5

PROPOSED SYSTEM
NODE TABLE

Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
74	5,170.00	56	5,309.19	60.3
73	5,130.00	56	5,309.24	77.7
72	5,110.00	56	5,309.50	86.4
71	5,110.00	0	5,310.73	87
70	5,120.00	8	5,320.84	87
69	5,130.00	0	5,320.88	82.7
68	5,120.00	8	5,320.88	87
67	5,130.00	0	5,320.95	82.7
66	5,120.00	8	5,320.95	87.1
65	5,116.00	0	5,318.21	87.6
64	5,126.00	20	5,318.59	83.4
60	5,135.30	19	5,319.24	79.7
59	5,125.00	48	5,319.00	84.1
58	5,103.00	39	5,318.17	93.2
57	5,110.00	33	5,318.20	90.2
56	5,114.20	39	5,318.27	88.4
55	5,100.00	0	5,318.10	94.5
54	5,105.60	17	5,318.29	92.2
53	5,097.00	58	5,318.50	96
52	5,102.20	17	5,318.52	93.7
51	5,110.00	44	5,318.56	90.4
50	5,130.00	33	5,319.34	82
49	5,143.00	22	5,320.11	76.7
48	5,114.60	17	5,319.19	88.6
47	5,114.00	0	5,319.19	88.9
46	5,204.00	9	5,323.28	51.7
45	5,196.00	8	5,323.27	55.1
44	5,200.00	47	5,322.67	53.2
43	5,201.00	0	5,323.28	53
42	5,197.00	13	5,323.28	54.7
41	5,183.00	11	5,324.08	61.1
40	5,185.00	16	5,324.08	60.3
39	5,140.00	0	5,321.02	78.4
38	5,182.00	54	5,321.55	60.5
37	5,185.00	0	5,321.55	59.2
36	5,161.50	141	5,321.06	69.1
35	5,111.00	180	5,320.85	90.9
34	5,158.00	0	5,321.35	70.8
33	5,161.20	0	5,321.42	69.4
32	5,172.64	0	5,321.49	64.5
31	5,175.37	0	5,321.55	63.3
30	5,175.40	0	5,321.63	63.4
29	5,187.62	0	5,321.53	58
28	5,180.27	51	5,321.51	61.2
27	5,171.89	17	5,321.49	64.8

PROPOSED SYSTEM
NODE TABLE

Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
26	5,184.32	0	5,321.51	59.4
25	5,181.82	32	5,321.51	60.5
24	5,168.70	0	5,321.51	66.2
23	5,159.00	56	5,321.27	70.3
22	5,149.00	0	5,321.27	74.6
21	5,139.00	0	5,321.27	79
20	5,148.50	0	5,321.28	74.9
19	5,173.19	5	5,322.64	64.8
18	5,189.84	0	5,322.46	57.5
17	5,187.18	0	5,322.37	58.6
16	5,181.00	0	5,321.97	61.1
15	5,178.45	0	5,321.82	62.1
14	5,175.99	0	5,321.65	63.1
13	5,163.48	0	5,321.42	68.4
12	5,157.56	0	5,321.31	71
11	5,138.33	51	5,321.25	79.3
10	5,145.80	0	5,321.27	76
9	5,137.83	0	5,321.27	79.5
8	5,132.17	0	5,321.27	81.9
7	5,123.64	0	5,321.25	85.6
6	5,134.82	31	5,321.23	80.8
5	5,141.89	0	5,321.23	77.7
4	5,143.97	0	5,321.22	76.8
3	5,158.09	27	5,321.22	70.7
2	5,161.19	0	5,321.22	69.3
1	5,161.50	23	5,321.22	69.2
1593-B	5,198.20	0	5,325.35	55.1
1593-A	5,198.20	0	5,192.78	-2.4
1592-B	5,198.36	0	5,325.33	55
1592-A	5,198.36	0	5,192.76	-2.4
1591-B	5,199.61	0	5,482.95	122.8
1591-A	5,199.61	0	5,325.32	54.5
1590-B	5,199.38	0	5,482.95	122.9
1590-A	5,199.38	0	5,325.32	54.6
1589-B	5,199.38	0	5,482.96	122.9
1589-A	5,199.38	0	5,325.32	54.6
1588-B	5,199.15	0	5,482.96	123
1588-A	5,199.15	0	5,325.32	54.7
1587-B	5,198.82	0	5,482.95	123.1
1587-A	5,198.82	0	5,325.32	54.8
1586-B	5,198.82	0	5,482.95	123.1
1586-A	5,198.82	0	5,325.32	54.8
1585-B	5,198.36	0	5,325.33	55
1585-A	5,198.36	0	5,192.78	-2.4
1584-B	5,293.24	0	5,500.51	89.8

PROPOSED SYSTEM
NODE TABLE

Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
1584-A	5,293.24	0	5,305.80	5.4
1583-B	5,293.24	0	5,500.50	89.8
1583-A	5,293.24	0	5,305.80	5.4
1582-B	5,293.08	0	5,500.49	89.9
1582-A	5,293.08	0	5,305.82	5.5
1581-B	5,293.08	0	5,500.49	89.9
1581-A	5,293.08	0	5,305.82	5.5
1616-B	5,071.62	0	5,180.44	47.2
1616-A	5,071.62	0	5,318.59	107
1615-B	5,044.00	0	5,175.07	56.8
1615-A	5,044.00	0	5,310.97	115.7
1614-B	5,050.00	0	5,175.07	54.2
1614-A	5,050.00	0	5,310.62	112.9
1613-B	5,043.05	0	5,179.93	59.3
1613-A	5,043.05	0	5,311.36	116.3
1612-B	5,058.83	0	5,180.20	52.6
1612-A	5,058.83	0	5,317.71	112.2
1611-B	5,059.88	0	5,179.95	52
1611-A	5,059.88	0	5,315.81	110.9
1609-B	5,171.89	0	5,309.30	59.5
1609-A	5,171.89	0	5,496.48	140.6
1606-B	5,056.11	0	5,176.92	52.3
1606-A	5,056.11	0	5,305.29	108
1601-B	5,182.81	0	5,312.44	56.2
1601-A	5,182.81	0	5,493.75	134.7
1600-B	5,183.60	0	5,310.63	55
1600-A	5,183.60	0	5,495.21	135
1598-B	5,022.22	0	5,179.95	68.3
1598-A	5,022.22	0	5,312.76	125.9
1597-B	5,057.22	0	5,179.35	52.9
1597-A	5,057.22	0	5,305.40	107.5
1596-B	5,199.84	48	5,310.82	48.1
1596-A	5,199.84	0	5,494.22	127.6
J-2268	5,176.39	0	5,312.44	59
J-2267	5,022.37	0	5,179.95	68.3
J-2266	5,020.00	20	5,179.95	69.3
J-2265	5,061.67	0	5,316.88	110.6
J-2264	4,922.00	6	5,168.84	107
J-2263	4,942.00	0	5,168.84	98.3
J-2262	4,940.00	0	5,169.07	99.3
J-2261	4,954.00	2	5,169.61	93.4
J-2260	4,982.00	71	5,169.47	81.2
J-2259	5,047.00	0	5,316.02	116.6
J-2258	5,050.00	14	5,316.09	115.3
J-2257	5,054.00	14	5,316.38	113.7

PROPOSED SYSTEM
NODE TABLE

Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-2256	5,073.00	0	5,317.93	106.1
J-2255	5,076.00	0	5,317.46	104.6
J-2254	5,064.00	15	5,317.46	109.8
J-2253	5,070.00	0	5,317.44	107.2
J-2252	5,064.00	0	5,317.22	109.7
J-2251	5,064.00	20	5,317.22	109.7
J-2250	5,052.00	10	5,317.06	114.9
J-2249	5,052.00	3	5,316.96	114.8
J-2248	5,062.00	0	5,316.96	110.5
J-2247	5,060.73	0	5,316.81	111
J-2246	5,014.00	5	5,179.65	71.8
J-2245	5,012.00	5	5,179.65	72.6
J-2244	5,010.00	5	5,179.70	73.5
J-2243	5,008.00	5	5,179.65	74.4
J-2242	5,009.00	5	5,179.65	73.9
J-2241	5,039.41	0	5,314.29	119.1
J-2240	5,046.00	5	5,180.81	58.4
J-2239	5,047.00	5	5,180.80	58
J-2238	5,046.00	5	5,180.64	58.3
J-2237	5,042.00	8	5,180.58	60
J-2236	5,042.00	14	5,180.57	60
J-2235	5,047.00	10	5,180.55	57.9
J-2234	5,055.16	0	5,181.00	54.5
J-2233	5,047.00	5	5,180.80	58
J-2232	5,048.00	5	5,180.65	57.5
J-2231	5,048.00	10	5,180.55	57.4
J-2230	5,040.00	8	5,180.23	60.8
J-2229	5,042.00	3	5,180.26	59.9
J-2228	5,043.00	5	5,180.26	59.5
J-2227	5,042.00	5	5,180.32	59.9
J-2226	5,044.00	0	5,180.34	59.1
J-2225	5,036.00	5	5,180.26	62.5
J-2224	5,034.00	0	5,180.20	63.3
J-2223	5,038.00	0	5,180.17	61.6
J-2222	5,036.00	17	5,180.14	62.5
J-2221	5,030.00	9	5,180.02	65
J-2220	5,039.00	0	5,180.00	61.1
J-2219	5,035.00	54	5,179.97	62.8
J-2218	5,035.00	10	5,179.98	62.8
J-2217	5,034.00	2	5,179.97	63.2
J-2216	5,036.00	2	5,179.96	62.4
J-2215	5,036.00	0	5,179.96	62.4
J-2214	5,040.00	0	5,179.95	60.6
J-2213	5,056.00	10	5,179.96	53.7
J-2212	5,056.00	0	5,179.96	53.7

PROPOSED SYSTEM
NODE TABLE

Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-2211	5,056.00	19	5,179.96	53.7
J-2210	5,056.00	10	5,179.96	53.7
J-2209	5,058.00	16	5,179.96	52.8
J-2208	5,056.00	4	5,179.97	53.7
J-2207	5,052.00	0	5,179.92	55.4
J-2206	5,050.00	0	5,179.93	56.3
J-2205	5,052.00	13	5,179.93	55.4
J-2204	5,052.00	0	5,179.92	55.4
J-2203	5,056.00	0	5,179.92	53.7
J-2202	5,058.00	0	5,179.92	52.8
J-2201	5,062.00	13	5,179.94	51.1
J-2200	5,060.00	13	5,179.93	52
J-2199	5,057.00	13	5,179.93	53.3
J-2198	5,055.00	10	5,179.92	54.1
J-2197	5,057.46	10	5,179.92	53.1
J-2196	5,057.00	10	5,179.92	53.3
J-2195	5,057.00	0	5,179.92	53.3
J-2194	5,057.00	0	5,179.92	53.3
J-2193	5,058.00	13	5,179.92	52.8
J-2192	5,062.00	12	5,179.92	51.1
J-2191	5,070.00	16	5,179.92	47.6
J-2190	5,076.00	16	5,179.92	45
J-2189	5,074.00	17	5,179.92	45.9
J-2188	5,065.00	17	5,179.92	49.8
J-2187	5,118.00	25	5,317.61	86.5
J-2186	5,104.00	25	5,317.60	92.6
J-2185	5,104.00	0	5,317.61	92.6
J-2184	5,107.00	0	5,317.62	91.3
J-2183	5,174.00	0	5,312.44	60
J-2166	5,164.50	0	5,314.22	64.9
J-2165	5,126.45	0	5,314.36	81.4
J-2164	5,190.00	0	5,192.79	1.2
J-2163	5,198.36	0	5,325.32	55
J-2162	5,028.29	12	5,179.32	65.4
J-2161	5,043.77	4	5,176.92	57.7
J-2117	5,218.74	6	5,498.42	121.2
J-2094	5,112.50	0	5,315.13	87.8
J-1838	5,219.85	2	5,494.74	119.1
J-1439	5,036.68	6	5,180.21	62.2
J-812	5,166.01	10	5,323.26	68.1
J-1011	5,160.96	5	5,321.44	69.5
J-642	5,117.29	3	5,314.11	85.3
J-1922	5,269.42	2	5,495.27	97.9
J-1982	5,264.31	2	5,495.23	100.1
J-1035	5,220.70	6	5,481.28	112.9

PROPOSED SYSTEM
NODE TABLE

Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-839	5,017.62	6	5,179.90	70.3
J-2014	5,051.91	3	5,179.94	55.5
J-1530	5,008.11	9	5,179.59	74.3
J-1057	5,054.96	1	5,179.99	54.2
J-935	5,223.43	6	5,481.36	111.8
J-1926	5,123.36	1	5,319.22	84.9
J-2029	5,161.16	20	5,310.92	64.9
J-1225	5,238.98	0	5,495.20	111
J-849	5,170.38	6	5,310.73	60.8
J-1551	5,025.43	1	5,180.01	67
J-656	5,026.19	10	5,180.17	66.7
J-1893	5,071.62	3	5,318.59	107
J-800	5,160.99	4	5,322.66	70.1
J-1309	5,116.24	5	5,318.71	87.7
J-1474	5,272.67	3	5,495.27	96.5
J-1839	5,144.46	7	5,311.00	72.2
J-1518	5,114.50	2	5,319.07	88.6
J-1362	5,235.27	2	5,481.27	106.6
J-1063	5,252.10	1	5,481.27	99.3
J-1373	5,070.28	1	5,310.57	104.1
J-949	5,057.81	7	5,179.95	52.9
J-1394	5,128.58	5	5,319.43	82.7
J-2049	5,247.74	0	5,481.36	101.2
J-1127	5,050.56	5	5,310.63	112.7
J-931	5,019.43	4	5,179.90	69.5
J-1642	5,105.38	6	5,313.11	90
J-986	5,148.89	5	5,310.96	70.2
J-1178	5,015.39	14	5,180.01	71.3
J-1252	5,110.90	4	5,312.55	87.4
J-1644	5,056.53	12	5,310.72	110.1
J-1231	5,080.25	2	5,318.62	103.3
J-1266	5,090.88	1	5,318.95	98.8
J-1039	5,196.95	2	5,495.34	129.3
J-707	5,128.09	3	5,319.20	82.8
J-691	5,054.47	10	5,180.59	54.6
J-1080	5,053.61	0	5,180.59	55
J-1073	5,122.41	18	5,319.42	85.4
J-1824	5,110.31	3	5,318.96	90.4
J-1212	5,207.84	2	5,495.26	124.5
J-1894	5,182.71	1	5,495.30	135.4
J-1489	5,131.79	1	5,319.98	81.5
J-1355	5,202.13	3	5,310.78	47.1
J-1786	4,994.00	2	5,179.32	80.3
J-1684	5,088.39	2	5,319.04	99.9
J-872	5,123.49	1	5,319.13	84.8

PROPOSED SYSTEM
NODE TABLE

Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-718	5,013.72	2	5,179.89	72
J-1289	5,084.12	8	5,305.33	95.9
J-1132	5,195.84	4	5,481.44	123.8
J-837	5,150.79	1	5,320.79	73.7
J-2106	5,036.32	3	5,180.31	62.4
J-1744	5,097.38	5	5,312.72	93.3
J-2072	5,059.88	21	5,315.81	110.9
J-1553	5,220.34	6	5,481.34	113.1
J-1383	5,199.71	4	5,494.31	127.6
J-2068	5,204.30	5	5,481.43	120.1
J-2000	5,286.62	1	5,495.27	90.4
J-716	5,196.62	4	5,495.34	129.4
J-1711	5,037.21	0	5,180.31	62
J-1985	5,160.60	5	5,320.48	69.3
J-1930	5,165.85	6	5,310.73	62.8
J-609	5,103.87	6	5,312.55	90.4
J-667	5,001.84	4	5,179.37	76.9
J-1059	5,231.46	2	5,481.27	108.2
J-958	5,136.75	5	5,319.21	79.1
J-1950	5,120.08	4	5,319.18	86.3
J-675	5,130.32	1	5,319.79	82.1
J-728	5,137.27	3	5,310.77	75.2
J-1906	5,285.34	9	5,495.30	91
J-1793	5,141.47	3	5,309.59	72.8
J-1249	5,134.45	5	5,313.41	77.5
J-742	5,174.97	1	5,310.80	58.9
J-1404	5,079.56	1	5,314.46	101.8
J-724	5,200.17	2	5,481.41	121.9
J-2050	5,148.26	7	5,319.74	74.3
J-1661	5,088.00	1	5,313.47	97.7
J-1421	5,195.41	4	5,495.06	129.8
J-1218	5,176.81	3	5,323.55	63.6
J-1118	5,158.70	2	5,310.92	66
J-627	5,070.18	3	5,310.77	104.2
J-1064	5,143.64	3	5,319.51	76.2
J-1358	5,135.96	3	5,319.22	79.4
J-2051	5,030.12	5	5,180.16	65
J-1584	5,160.34	8	5,320.03	69.2
J-863	5,141.31	3	5,319.06	77
J-1709	5,208.20	2	5,493.61	123.7
J-758	5,155.25	716	5,321.94	72.2
J-1135	5,025.43	4	5,180.01	67
J-1586	5,147.25	5	5,320.39	75
J-1683	5,199.02	8	5,481.49	122.4
J-1457	5,021.33	5	5,179.91	68.7

PROPOSED SYSTEM
NODE TABLE

Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-1461	5,055.71	4	5,179.99	53.8
J-1785	5,207.45	1	5,494.42	124.3
J-1505	5,076.81	6	5,310.68	101.3
J-1078	5,229.43	1	5,494.57	114.9
J-2058	5,019.53	5	5,179.90	69.5
J-1885	5,117.06	1	5,319.05	87.5
J-1242	5,147.41	1	5,320.78	75.1
J-753	5,108.83	6	5,310.71	87.5
J-1569	5,209.71	7	5,481.40	117.7
J-853	5,202.86	1	5,310.78	46.8
J-989	5,048.00	4	5,175.06	55.1
J-1576	5,255.35	3	5,495.29	104
J-1077	5,057.68	2	5,180.00	53
J-1360	5,145.54	2	5,310.79	71.6
J-1148	5,261.35	3	5,495.38	101.4
J-887	5,079.79	6	5,180.48	43.6
J-637	5,144.26	3	5,311.01	72.3
J-612	5,128.02	3	5,313.30	80.3
J-944	5,159.32	6	5,319.91	69.6
J-1806	5,246.10	4	5,496.49	108.5
J-660	5,151.61	8	5,306.90	67.3
J-1279	5,010.44	2	5,179.57	73.3
J-873	5,218.28	4	5,481.29	114
J-1645	5,130.58	6	5,313.30	79.2
J-1227	5,192.10	2	5,495.24	131.4
J-1153	5,157.48	1	5,320.77	70.8
J-1042	5,221.89	3	5,481.34	112.4
J-1915	4,997.22	6	5,179.60	79
J-1604	5,119.95	4	5,319.18	86.3
J-1469	5,051.58	3	5,179.93	55.6
J-926	5,149.90	2	5,319.91	73.7
J-981	5,127.43	4	5,319.43	83.2
J-1962	5,032.19	0	5,179.89	64
J-2003	5,141.28	4	5,320.73	77.8
J-1707	5,079.99	4	5,180.48	43.5
J-738	5,209.91	4	5,481.37	117.6
J-1918	5,214.04	3	5,481.37	115.8
J-1792	5,132.78	5	5,319.32	80.8
J-1694	5,048.17	1	5,179.95	57.1
J-1376	5,097.35	3	5,312.85	93.4
J-1938	5,153.55	1	5,310.78	68.1
J-1581	5,129.20	4	5,319.23	82.3
J-1162	5,006.89	2	5,179.61	74.8
J-856	5,043.05	0	5,179.93	59.3
J-2034	5,052.86	8	5,310.59	111.7

PROPOSED SYSTEM
NODE TABLE

Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-1850	5,152.33	5	5,306.90	67
J-934	5,197.74	7	5,495.34	129
J-1305	5,011.16	7	5,179.58	73
J-1167	5,054.53	2	5,179.96	54.4
J-1033	5,009.52	3	5,179.61	73.7
J-1598	5,236.85	30	5,495.20	111.9
J-763	5,165.52	18	5,307.83	61.7
J-698	5,163.88	8	5,321.41	68.3
J-947	5,064.57	9	5,317.54	109.6
J-1029	5,182.48	5	5,495.21	135.5
J-779	5,005.16	2	5,179.88	75.7
J-1521	5,015.72	5	5,179.90	71.1
J-1603	5,210.89	3	5,493.69	122.5
J-1836	5,094.46	3	5,313.11	94.7
J-646	5,174.74	5	5,312.44	59.7
J-1010	5,211.62	13	5,495.07	122.8
J-1625	5,181.76	2	5,495.27	135.8
J-1459	5,160.34	31	5,306.36	63.3
J-1165	5,003.25	1	5,179.34	76.3
J-1904	5,178.71	3	5,495.30	137.2
J-1483	5,151.25	4	5,310.73	69.1
J-1160	5,251.77	4	5,495.34	105.5
J-1440	5,227.33	10	5,481.32	110.1
J-2101	5,127.69	3	5,309.60	78.8
J-1491	5,161.39	3	5,310.87	64.8
J-1385	5,114.14	5	5,312.85	86.1
J-896	5,130.32	3	5,320.39	82.4
J-1407	5,006.99	6	5,179.90	74.9
J-686	5,123.99	8	5,318.76	84.4
J-1802	5,120.51	4	5,318.70	85.9
J-2104	5,246.92	3	5,496.49	108.1
J-1340	5,021.40	3	5,180.10	68.8
J-2022	5,162.37	1	5,310.74	64.3
J-1622	5,175.63	11	5,323.55	64.1
J-789	5,006.76	4	5,179.88	75
J-1934	5,159.71	1	5,310.75	65.4
J-1499	5,099.97	6	5,313.00	92.3
J-641	5,099.74	2	5,312.78	92.3
J-2048	5,050.00	3	5,311.36	113.2
J-1396	5,123.49	2	5,313.14	82.2
J-1541	4,996.66	7	5,179.69	79.3
J-1902	5,225.40	2	5,495.43	117
J-661	5,000.50	4	5,179.56	77.6
J-747	5,267.55	9	5,495.26	98.7
J-2001	5,109.29	4	5,318.85	90.8

PROPOSED SYSTEM
NODE TABLE

Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-1886	5,017.00	3	5,179.90	70.6
J-1276	5,143.87	6	5,320.39	76.5
J-2082	5,050.20	2	5,179.95	56.2
J-2005	5,250.46	3	5,495.32	106.1
J-2088	5,112.11	10	5,319.19	89.7
J-1953	5,084.16	1	5,312.80	99.1
J-692	5,111.58	2	5,318.97	89.9
J-1651	5,059.65	2	5,317.66	111.8
J-2046	5,154.20	5	5,322.66	73
J-1131	5,187.99	2	5,495.29	133.2
J-1854	5,054.33	2	5,179.93	54.4
J-1788	5,123.36	2	5,318.82	84.7
J-1668	5,018.93	5	5,180.05	69.8
J-1811	5,228.81	4	5,481.34	109.4
J-2008	5,212.01	4	5,481.34	116.7
J-1538	5,141.51	2	5,319.32	77
J-1812	5,222.44	2	5,495.09	118.1
J-736	5,155.65	4	5,310.96	67.3
J-1106	5,119.89	2	5,319.07	86.3
J-1641	5,155.84	2	5,320.76	71.5
J-1330	5,030.06	2	5,180.17	65
J-683	5,145.15	4	5,319.52	75.6
J-1428	5,012.57	5	5,179.89	72.5
J-1032	5,034.68	7	5,180.22	63.1
J-611	5,155.65	2	5,310.75	67.2
J-665	5,207.55	5	5,494.43	124.3
J-2109	5,170.84	1	5,310.74	60.6
J-769	5,123.63	4	5,312.40	81.8
J-689	5,150.79	9	5,309.85	68.9
J-1196	5,057.22	19	5,316.44	112.3
J-864	5,049.81	2	5,179.94	56.4
J-1072	5,163.49	15	5,306.51	62
J-1091	5,271.49	7	5,497.08	97.7
J-1768	5,103.15	2	5,313.01	90.9
J-1233	5,147.71	2	5,310.77	70.7
J-1504	5,057.85	14	5,310.79	109.6
J-1128	5,062.11	6	5,310.80	107.8
J-1299	5,003.94	4	5,179.60	76.1
J-867	5,204.83	13	5,493.79	125.2
J-1975	5,194.52	3	5,481.50	124.4
J-1126	5,275.17	1	5,497.74	96.4
J-705	5,193.21	9	5,496.49	131.4
J-1341	5,188.06	5	5,481.51	127.2
J-1408	4,994.07	5	5,179.48	80.3
J-1264	5,267.42	10	5,497.06	99.5

PROPOSED SYSTEM
NODE TABLE

Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-1710	5,046.33	2	5,179.95	57.9
J-1339	5,149.81	3	5,319.77	73.6
J-1412	5,228.91	0	5,495.17	115.4
J-2002	5,042.72	3	5,179.93	59.5
J-639	5,250.36	4	5,481.27	100.1
J-672	5,250.13	1	5,495.20	106.2
J-1912	5,034.16	9	5,179.81	63.1
J-824	5,111.26	2	5,318.51	89.8
J-1493	5,119.72	5	5,313.14	83.8
J-1273	5,067.52	8	5,313.45	106.6
J-1575	5,144.33	4	5,320.24	76.2
J-1047	4,995.87	6	5,179.60	79.6
J-1704	5,204.43	11	5,493.62	125.3
J-1158	5,000.99	5	5,179.88	77.5
J-1040	5,034.19	9	5,180.32	63.3
J-1800	5,104.20	8	5,318.95	93
J-1053	5,207.68	4	5,481.42	118.6
J-1781	5,143.44	2	5,306.90	70.8
J-1312	5,037.73	63	5,180.26	61.8
J-1621	5,199.90	17	5,493.79	127.3
J-1817	5,243.37	3	5,495.46	109.2
J-1556	5,224.77	5	5,495.35	117.2
J-1350	5,159.09	2	5,310.76	65.7
J-1377	5,043.64	3	5,175.06	56.9
J-1381	5,137.73	7	5,311.29	75.2
J-1566	5,249.15	2	5,495.32	106.7
J-1559	5,057.94	2	5,179.99	52.9
J-906	5,008.08	15	5,179.95	74.5
J-990	5,131.01	2	5,320.01	81.9
J-995	5,085.96	6	5,313.00	98.4
J-1509	5,181.27	3	5,322.84	61.3
J-1891	5,021.10	5	5,179.92	68.8
J-745	5,044.33	8	5,175.05	56.6
J-1378	5,071.82	1	5,313.12	104.6
J-1243	5,162.34	7	5,320.53	68.5
J-2011	5,130.09	11	5,318.96	81.8
J-1311	5,139.77	1	5,320.08	78.1
J-749	5,057.55	15	5,310.57	109.6
J-916	4,994.85	10	5,179.48	80
J-2006	5,047.84	2	5,179.95	57.2
J-1494	5,124.68	3	5,320.17	84.7
J-1108	5,178.55	0	5,310.77	57.3
J-1103	5,166.80	4	5,322.48	67.5
J-1775	5,096.43	16	5,319.16	96.5
J-988	5,080.09	6	5,313.12	101

PROPOSED SYSTEM
NODE TABLE

Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-1095	5,200.10	2	5,495.07	127.8
J-1647	5,124.18	2	5,312.78	81.7
J-702	5,021.79	3	5,179.93	68.5
J-1476	5,157.19	22	5,306.74	64.8
J-1151	5,160.11	1	5,320.96	69.7
J-936	5,229.53	2	5,481.27	109.1
J-1935	5,164.77	1	5,310.85	63.3
J-1968	5,137.70	2	5,319.78	78.9
J-1169	4,989.97	5	5,179.98	82.3
J-835	5,238.16	4	5,495.31	111.4
J-1486	5,076.68	28	5,318.25	104.7
J-735	5,258.96	8	5,495.42	102.5
J-1816	5,240.62	8	5,496.57	110.9
J-1348	5,066.18	5	5,317.51	108.9
J-2044	5,111.19	2	5,312.98	87.4
J-1296	5,130.97	2	5,320.01	81.9
J-1840	5,067.59	2	5,313.12	106.4
J-2027	5,114.96	11	5,318.55	88.2
J-819	5,224.54	5	5,481.34	111.3
J-653	5,054.63	2	5,180.00	54.3
J-1776	5,196.03	6	5,481.50	123.7
J-1881	4,999.58	5	5,179.78	78.1
J-1356	5,171.36	1	5,310.80	60.4
J-1323	5,221.92	1	5,495.17	118.4
J-721	5,130.02	2	5,318.80	81.8
J-1336	5,061.88	6	5,317.66	110.8
J-604	5,070.02	1	5,180.49	47.9
J-966	5,048.17	3	5,179.95	57.1
J-855	5,144.06	10	5,319.34	75.9
J-1284	5,174.58	1	5,312.44	59.7
J-1753	5,070.48	2	5,313.12	105.1
J-1761	5,146.82	6	5,319.73	74.9
J-1023	5,008.57	3	5,179.59	74.1
J-1372	5,067.29	5	5,313.95	106.9
J-1680	5,238.45	3	5,495.80	111.5
J-1512	5,104.24	1	5,312.86	90.4
J-1133	5,136.58	10	5,320.81	79.8
J-1873	5,135.83	6	5,319.47	79.6
J-868	5,074.12	3	5,313.11	103.6
J-1848	5,140.46	1	5,320.78	78.1
J-946	5,167.78	4	5,322.83	67.2
J-2099	5,111.52	5	5,318.73	89.8
J-948	5,123.03	3	5,319.22	85
J-1359	5,052.07	4	5,179.97	55.4
J-833	5,068.84	8	5,317.87	107.9

PROPOSED SYSTEM
NODE TABLE

Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-1517	5,252.95	3	5,496.70	105.6
J-634	5,087.93	10	5,310.71	96.5
J-748	5,107.58	9	5,313.48	89.2
J-1550	5,149.02	1	5,320.81	74.4
J-1219	5,064.34	5	5,180.47	50.3
J-1948	5,060.83	12	5,310.67	108.3
J-2023	5,163.29	3	5,310.92	64
J-1301	5,158.11	7	5,320.68	70.4
J-1579	5,218.57	7	5,496.54	120.4
J-1907	5,130.25	3	5,318.81	81.7
J-1099	5,166.93	1	5,310.74	62.3
J-1745	5,048.00	11	5,175.06	55.1
J-848	5,137.34	4	5,320.54	79.4
J-1288	4,991.74	5	5,179.67	81.4
J-851	5,214.37	7	5,481.36	115.7
J-1725	5,194.79	3	5,495.26	130.2
J-1544	5,004.40	1	5,179.96	76.1
J-731	5,170.57	2	5,310.80	60.8
J-1857	5,055.35	14	5,310.95	110.8
J-608	5,181.30	1	5,310.79	56.1
J-1367	5,049.68	2	5,179.96	56.4
J-1944	5,210.53	4	5,493.65	122.7
J-885	5,100.63	1	5,313.92	92.4
J-975	5,045.67	2	5,179.95	58.2
J-1229	5,167.92	2	5,320.76	66.2
J-953	5,234.22	3	5,494.54	112.8
J-1260	5,076.15	10	5,310.69	101.6
J-1981	5,060.27	5	5,317.62	111.5
J-681	5,119.98	8	5,318.83	86.2
J-1375	5,194.52	2	5,481.50	124.4
J-1515	5,067.13	4	5,180.46	49.1
J-952	5,042.79	15	5,179.95	59.4
J-1747	5,128.45	7	5,313.41	80.1
J-1107	5,015.56	4	5,179.90	71.2
J-1203	5,063.78	3	5,180.47	50.6
J-1841	5,224.84	6	5,481.35	111.1
J-1909	5,152.20	2	5,320.84	73.1
J-1925	5,082.02	1	5,318.49	102.5
J-1735	5,148.95	5	5,310.75	70.1
J-1319	5,123.56	2	5,319.86	85.1
J-1830	5,086.22	4	5,320.85	101.7
J-1696	5,239.83	9	5,481.27	104.6
J-1327	5,148.76	6	5,322.35	75.2
J-1157	5,082.02	8	5,305.33	96.8
J-1796	5,221.72	5	5,496.48	119.1

PROPOSED SYSTEM
NODE TABLE

Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-1818	5,134.98	4	5,319.32	79.9
J-1573	5,220.51	26	5,481.34	113
J-2052	5,091.80	2	5,313.47	96
J-1019	5,231.92	6	5,481.33	108.1
J-1899	5,190.19	15	5,322.79	57.5
J-886	5,161.52	32	5,320.64	68.9
J-823	5,261.48	4	5,495.22	101.3
J-1141	5,154.56	2	5,310.96	67.8
J-2020	5,137.57	1	5,320.08	79.1
J-1937	5,140.52	4	5,319.34	77.5
J-2095	5,225.23	5	5,496.48	117.5
J-1110	5,153.35	1	5,310.74	68.2
J-1271	5,135.01	4	5,319.22	79.8
J-1417	4,991.05	4	5,179.62	81.7
J-1371	5,078.38	7	5,313.11	101.7
J-648	5,199.02	7	5,481.46	122.4
J-1697	5,210.47	2	5,481.33	117.4
J-1698	5,096.03	2	5,319.16	96.7
J-1044	5,023.33	4	5,179.92	67.9
J-900	5,117.59	5	5,319.80	87.6
J-1782	5,003.25	0	5,179.56	76.4
J-1081	5,141.05	29	5,319.04	77.1
J-1829	5,186.85	8	5,481.52	127.7
J-1452	5,220.70	3	5,495.45	119
J-1085	5,250.63	16	5,495.22	106
J-1861	5,247.77	4	5,495.21	107.2
J-1552	4,996.49	4	5,179.73	79.4
J-1845	5,043.64	5	5,175.05	56.9
J-1898	5,025.69	5	5,180.01	66.9
J-685	5,229.56	8	5,495.27	115.1
J-629	5,193.21	5	5,481.58	125
J-805	5,104.96	0	5,318.39	92.5
J-1465	5,023.50	2	5,179.93	67.8
J-754	5,216.08	2	5,494.78	120.8
J-956	5,016.80	3	5,179.90	70.7
J-829	5,022.38	3	5,179.92	68.3
J-1338	5,247.25	1	5,481.36	101.4
J-1695	5,216.77	44	5,493.53	119.9
J-1500	5,128.65	6	5,319.45	82.7
J-1365	5,127.89	3	5,319.21	82.9
J-1991	5,133.63	4	5,320.79	81.1
J-846	5,067.26	1	5,317.87	108.6
J-614	5,024.25	5	5,179.91	67.4
J-708	5,014.64	2	5,179.90	71.6
J-969	5,092.46	6	5,318.95	98.1

PROPOSED SYSTEM
NODE TABLE

Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-1152	5,205.05	3	5,481.38	119.7
J-857	5,154.46	6	5,310.78	67.7
J-734	5,056.27	3	5,179.98	53.6
J-2079	5,137.60	3	5,319.46	78.8
J-2098	5,232.15	3	5,495.12	113.9
J-1657	5,148.36	0	5,320.77	74.7
J-945	5,204.96	4	5,481.43	119.8
J-987	5,079.60	6	5,313.14	101.2
J-1205	5,222.28	9	5,493.52	117.5
J-1742	5,025.27	9	5,180.12	67.1
J-1333	5,233.43	1	5,495.17	113.4
J-693	5,017.20	0	5,179.90	70.5
J-1675	4,998.04	6	5,180.24	78.9
J-2016	5,217.16	5	5,481.29	114.4
J-1213	5,118.80	3	5,319.66	87
J-2076	5,043.51	2	5,179.95	59.1
J-1927	5,054.76	15	5,179.93	54.2
J-1315	5,151.41	2	5,320.88	73.4
J-1908	5,200.63	2	5,481.40	121.7
J-1263	5,122.02	7	5,312.68	82.6
J-1307	5,130.29	2	5,320.36	82.4
J-893	5,060.27	4	5,313.63	109.8
J-998	5,036.09	5	5,180.31	62.5
J-1549	5,226.45	7	5,481.33	110.4
J-771	5,140.00	4	5,319.25	77.7
J-1329	5,150.27	3	5,319.91	73.5
J-2025	5,137.93	3	5,320.54	79.1
J-1540	5,009.49	10	5,179.61	73.7
J-1398	5,117.98	5	5,318.76	87
J-1297	5,046.49	3	5,179.95	57.8
J-1764	5,131.70	5	5,319.22	81.3
J-739	5,160.17	1	5,320.97	69.7
J-1322	5,233.66	6	5,481.36	107.3
J-1763	5,020.77	5	5,179.92	69
J-1762	5,077.53	14	5,310.61	101
J-694	5,198.46	2	5,495.06	128.5
J-1514	5,172.48	4	5,322.48	65
J-2089	5,128.45	4	5,318.81	82.5
J-1182	5,137.31	2	5,319.23	78.8
J-1119	5,070.15	0	5,313.12	105.3
J-703	5,149.12	6	5,322.39	75.1
J-866	5,210.44	36	5,493.54	122.7
J-1113	5,032.16	4	5,180.00	64.1
J-1916	5,056.66	5	5,179.96	53.4
J-1522	5,090.62	1	5,312.79	96.3

PROPOSED SYSTEM
NODE TABLE

Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-919	5,167.75	2	5,320.76	66.3
J-1726	5,124.81	4	5,319.83	84.5
J-1652	5,064.67	3	5,314.01	108
J-1670	5,000.10	3	5,179.34	77.7
J-1122	5,014.67	3	5,179.89	71.6
J-1294	5,007.16	3	5,179.56	74.7
J-1420	4,996.13	4	5,179.79	79.6
J-618	5,180.94	2	5,495.24	136.2
J-1996	5,085.04	18	5,318.76	101.3
J-1086	5,115.95	5	5,318.76	87.9
J-1037	5,003.35	5	5,180.02	76.5
J-1142	5,102.37	1	5,312.78	91.2
J-1837	5,051.51	16	5,179.93	55.6
J-1009	5,114.64	2	5,312.91	85.9
J-1308	5,141.70	3	5,319.45	77
J-1492	5,070.64	6	5,313.41	105.2
J-2032	5,040.65	6	5,175.06	58.2
J-2015	5,208.93	5	5,493.56	123.3
J-2021	5,177.92	1	5,310.77	57.6
J-2054	5,081.93	2	5,305.33	96.8
J-1314	5,075.99	3	5,180.47	45.3
J-951	5,159.25	4	5,495.30	145.6
J-2080	5,147.05	1	5,306.27	69
J-1069	5,118.74	2	5,318.76	86.7
J-1669	5,138.68	0	5,320.08	78.6
J-815	5,130.35	3	5,318.81	81.7
J-920	4,999.32	6	5,179.73	78.2
J-1700	5,114.14	9	5,318.88	88.7
J-706	5,174.51	3	5,495.30	139
J-1797	5,130.51	3	5,319.42	81.9
J-713	5,180.25	8	5,322.71	61.7
J-655	4,994.03	4	5,179.86	80.5
J-1591	5,262.37	3	5,495.28	100.9
J-2084	5,050.37	5	5,179.95	56.1
J-869	5,055.12	5	5,179.94	54.1
J-1083	5,147.80	6	5,319.52	74.4
J-1843	5,172.15	0	5,310.80	60.1
J-697	5,157.61	5	5,309.54	65.8
J-1300	5,018.71	12	5,180.08	69.9
J-2031	5,097.38	4	5,313.12	93.5
J-1623	5,064.87	3	5,180.47	50.1
J-1120	5,101.55	5	5,313.29	91.7
J-1280	5,050.27	2	5,179.95	56.2
J-882	5,231.92	39	5,493.49	113.3
J-654	5,080.22	4	5,305.33	97.5

PROPOSED SYSTEM
NODE TABLE

Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-901	5,010.37	2	5,179.58	73.3
J-1139	5,081.27	4	5,310.69	99.4
J-871	5,056.17	12	5,310.64	110.3
J-1349	5,242.46	2	5,481.27	103.5
J-1572	5,205.91	8	5,494.86	125.2
J-1403	5,012.44	13	5,179.57	72.4
J-910	4,996.23	2	5,179.32	79.3
J-607	5,009.91	4	5,179.88	73.6
J-1632	5,241.57	11	5,495.20	109.9
J-1451	5,235.70	2	5,481.27	106.4
J-1870	5,005.06	2	5,179.88	75.7
J-1180	5,216.73	8	5,496.53	121.2
J-1236	5,219.69	6	5,495.12	119.3
J-1221	5,197.02	2	5,495.27	129.2
J-1168	5,208.24	5	5,494.79	124.2
J-1272	5,043.34	1	5,179.93	59.2
J-1795	5,008.17	4	5,179.39	74.2
J-1951	5,039.44	7	5,175.06	58.8
J-1207	5,014.05	3	5,179.89	71.9
J-1111	5,156.60	2	5,310.96	66.9
J-1104	5,068.64	2	5,180.45	48.4
J-941	5,029.33	3	5,180.17	65.4
J-1686	5,123.63	3	5,319.22	84.7
J-1593	5,106.47	24	5,319.01	92.1
J-1618	5,075.86	4	5,313.36	102.9
J-1955	5,117.62	4	5,319.58	87.5
J-1910	5,018.61	4	5,180.03	69.9
J-1667	5,006.47	7	5,179.62	75
J-1851	5,142.33	3	5,319.52	76.8
J-1146	5,219.52	7	5,495.30	119.5
J-1351	5,157.58	3	5,495.30	146.3
J-1999	5,066.47	2	5,317.85	108.9
J-2096	5,136.72	5	5,319.42	79.2
J-1574	5,160.44	1	5,321.00	69.6
J-784	5,207.45	1	5,493.62	124
J-1424	5,163.55	3	5,321.41	68.4
J-1750	5,097.02	3	5,312.83	93.5
J-1217	5,246.79	4	5,496.48	108.2
J-1543	5,269.46	2	5,497.16	98.7
J-1928	5,213.45	3	5,494.78	121.9
J-1147	5,057.88	0	5,180.00	52.9
J-1580	5,158.30	1	5,320.73	70.4
J-1048	5,236.68	3	5,481.27	106
J-801	5,066.24	2	5,180.46	49.5
J-1488	5,154.17	9	5,320.26	72

PROPOSED SYSTEM
NODE TABLE

Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-1337	5,180.42	7	5,495.30	136.4
J-1441	5,193.05	3	5,495.33	131
J-623	5,142.82	6	5,319.66	76.6
J-1445	5,022.97	5	5,179.93	68
J-1173	4,993.11	5	5,179.88	80.9
J-1740	5,244.88	3	5,481.36	102.5
J-1501	5,063.06	14	5,180.53	50.9
J-2024	5,034.39	14	5,180.26	63.2
J-1482	5,144.00	9	5,319.17	75.9
J-1418	4,999.18	4	5,179.49	78.1
J-1687	5,040.82	2	5,179.93	60.3
J-818	5,150.66	1	5,320.79	73.7
J-1627	5,078.74	5	5,313.15	101.6
J-811	5,257.25	3	5,496.73	103.8
J-1346	5,017.00	5	5,179.90	70.6
J-1619	5,030.58	30	5,180.16	64.8
J-1155	5,086.85	4	5,313.47	98.2
J-870	5,046.36	0	5,311.36	114.8
J-1919	5,155.42	3	5,321.00	71.7
J-2040	5,055.61	9	5,310.68	110.5
J-842	5,220.08	4	5,495.52	119.3
J-822	5,062.64	6	5,317.57	110.5
J-1977	5,088.72	9	5,305.34	93.9
J-927	5,030.12	1	5,180.16	65
J-1614	5,180.38	4	5,310.77	56.5
J-959	5,051.91	1	5,179.97	55.5
J-1245	5,184.09	1	5,310.79	54.9
J-1046	5,058.63	0	5,180.20	52.7
J-1743	5,181.60	1	5,310.79	56
J-1988	5,068.34	2	5,317.87	108.1
J-838	5,162.17	5	5,320.54	68.6
J-2033	5,120.44	4	5,319.81	86.4
J-1238	5,145.18	6	5,310.71	71.7
J-1646	5,167.75	1	5,310.90	62
J-1138	5,217.19	3	5,481.32	114.4
J-1942	5,150.13	9	5,319.75	73.5
J-854	5,164.18	2	5,310.85	63.6
J-1739	5,064.96	10	5,317.57	109.5
J-1014	5,228.02	2	5,496.54	116.4
J-2056	5,008.50	3	5,179.59	74.1
J-1874	5,060.83	0	5,180.54	51.9
J-1825	5,217.42	6	5,481.28	114.3
J-1444	5,101.05	4	5,320.85	95.2
J-1334	5,021.26	5	5,179.91	68.7
J-1013	5,052.69	6	5,311.05	111.9

PROPOSED SYSTEM
NODE TABLE

Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-1363	5,152.43	7	5,306.29	66.7
J-1946	5,079.73	3	5,313.11	101.1
J-1535	5,183.37	1	5,495.30	135.2
J-712	5,029.27	8	5,180.00	65.3
J-1325	5,054.83	15	5,180.42	54.4
J-817	5,108.40	2	5,318.97	91.2
J-2045	5,240.65	1	5,495.17	110.3
J-1251	5,018.93	7	5,180.05	69.8
J-1673	5,066.90	10	5,317.87	108.7
J-2043	5,136.95	4	5,312.78	76.2
J-1678	5,001.88	4	5,179.61	77
J-1442	5,012.77	4	5,179.89	72.4
J-1814	5,156.60	5	5,321.40	71.4
J-1884	5,254.69	5	5,496.73	104.9
J-1321	5,157.52	3	5,320.77	70.7
J-1634	5,069.23	4	5,310.76	104.7
J-1411	5,038.55	7	5,180.31	61.4
J-1708	5,152.17	3	5,320.93	73.1
J-1957	5,097.02	4	5,312.98	93.6
J-1437	5,230.09	4	5,481.27	108.8
J-1607	5,178.91	2	5,310.74	57.1
J-2064	5,002.66	8	5,179.61	76.7
J-1462	5,238.35	4	5,481.27	105.3
J-668	5,109.26	2	5,318.62	90.7
J-1799	5,222.54	1	5,495.14	118.1
J-700	5,238.42	14	5,495.28	111.3
J-1239	5,157.94	1	5,310.96	66.3
J-1692	5,051.61	2	5,179.96	55.6
J-1722	5,146.13	3	5,320.73	75.7
J-1810	5,012.67	1	5,179.89	72.5
J-1989	5,279.63	3	5,495.25	93.4
J-1688	5,136.91	6	5,320.39	79.5
J-796	5,144.72	1	5,319.90	75.9
J-1115	5,169.13	10	5,322.58	66.5
J-977	5,222.84	64	5,493.49	117.3
J-994	5,245.34	3	5,496.48	108.8
J-1703	5,048.23	2	5,179.95	57.1
J-1450	5,058.83	2	5,180.20	52.6
J-1654	5,266.04	3	5,495.24	99.3
J-2074	5,250.92	3	5,481.27	99.8
J-1409	5,199.58	12	5,496.48	128.6
J-1255	5,285.80	25	5,495.25	90.8
J-1986	5,018.41	4	5,179.91	70
J-1354	5,139.14	4	5,319.58	78.2
J-2102	5,136.85	1	5,320.08	79.4

PROPOSED SYSTEM
NODE TABLE

Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-1767	5,136.35	4	5,311.46	75.9
J-744	5,159.62	2	5,320.77	69.8
J-938	5,019.46	6	5,180.05	69.6
J-1567	5,161.19	7	5,320.59	69.1
J-983	5,109.29	4	5,318.67	90.7
J-2038	5,092.16	2	5,313.11	95.7
J-1862	5,136.03	1	5,319.89	79.7
J-1978	5,230.58	1	5,495.17	114.6
J-820	5,232.32	2	5,495.17	113.9
J-783	5,150.46	6	5,319.75	73.4
J-1900	5,069.03	1	5,180.46	48.3
J-974	5,134.78	5	5,311.30	76.5
J-1453	5,052.60	3	5,179.93	55.2
J-755	5,053.19	2	5,179.96	54.9
J-1582	5,051.68	4	5,179.94	55.6
J-1844	5,088.62	3	5,312.97	97.2
J-1734	5,211.65	5	5,481.38	116.9
J-821	5,209.22	4	5,495.25	123.9
J-2086	5,089.47	2	5,318.95	99.4
J-964	5,049.28	1	5,179.96	56.6
J-1124	5,151.02	1	5,310.71	69.2
J-1705	5,219.56	5	5,481.27	113.4
J-962	5,123.03	2	5,319.22	85
J-1546	5,191.96	3	5,495.29	131.4
J-1176	5,251.90	7	5,495.30	105.5
J-1628	5,134.68	5	5,313.22	77.4
J-1222	5,112.50	1	5,318.91	89.4
J-2071	5,133.04	4	5,319.22	80.7
J-883	5,049.64	2	5,179.95	56.5
J-1638	5,040.13	4	5,175.06	58.5
J-621	5,045.05	4	5,175.07	56.3
J-1052	5,231.79	2	5,494.78	114
J-1875	5,232.45	1	5,495.27	113.9
J-1665	5,208.20	5	5,495.43	124.5
J-1693	5,137.27	4	5,319.20	78.8
J-816	5,216.70	3	5,495.30	120.7
J-1853	5,216.93	6	5,494.49	120.3
J-1194	5,143.01	6	5,319.51	76.5
J-1117	5,217.88	3	5,495.35	120.2
J-802	5,080.32	9	5,305.33	97.5
J-1098	5,145.74	2	5,309.60	71
J-2035	5,067.62	7	5,313.24	106.4
J-918	5,233.17	7	5,481.36	107.5
J-798	4,999.97	6	5,179.60	77.8
J-1987	5,203.51	5	5,481.44	120.4

PROPOSED SYSTEM
NODE TABLE

Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-1834	5,145.31	8	5,310.83	71.7
J-1306	5,038.00	2	5,180.31	61.7
J-2078	5,181.27	0	5,481.62	130.1
J-1463	5,260.07	2	5,495.30	101.9
J-1100	5,192.19	2	5,493.79	130.7
J-1835	5,251.64	3	5,481.27	99.5
J-978	5,126.87	3	5,320.19	83.8
J-714	5,068.64	2	5,180.46	48.5
J-2108	5,146.72	6	5,310.74	71.1
J-1905	5,062.44	9	5,317.78	110.6
J-2077	5,233.40	1	5,494.54	113.2
J-725	5,148.56	1	5,320.81	74.6
J-730	5,183.04	5	5,310.75	55.3
J-1972	5,005.42	5	5,179.96	75.6
J-1758	5,170.05	2	5,495.29	140.9
J-1055	5,153.22	13	5,306.29	66.3
J-1681	5,032.22	8	5,180.26	64.1
J-2062	5,220.80	3	5,481.27	112.9
J-1112	5,073.36	5	5,313.37	104
J-1760	5,232.61	12	5,481.34	107.8
J-1105	5,215.68	6	5,496.48	121.7
J-1067	5,167.75	5	5,319.86	65.9
J-1990	5,211.94	4	5,481.37	116.7
J-767	5,061.06	7	5,310.57	108.1
J-1749	5,017.46	4	5,179.90	70.4
J-1616	5,156.07	1	5,310.74	67
J-1015	5,136.52	2	5,319.32	79.2
J-1345	5,031.80	4	5,180.22	64.3
J-1663	5,079.63	5	5,305.33	97.8
J-1772	5,040.79	3	5,179.95	60.3
J-2060	5,078.61	2	5,318.27	103.8
J-1068	5,208.53	4	5,481.42	118.2
J-1723	5,072.18	2	5,180.47	46.9
J-1485	5,146.39	3	5,319.51	75
J-1150	5,164.50	6	5,314.22	64.9
J-1413	5,218.31	6	5,481.36	114
J-2012	5,049.28	2	5,179.94	56.6
J-2057	4,997.12	7	5,179.34	79
J-1503	5,103.42	5	5,313.11	90.9
J-2066	5,180.84	2	5,495.29	136.3
J-666	5,004.63	2	5,179.90	75.9
J-2087	5,193.54	5	5,481.62	124.8
J-1475	5,135.76	5	5,320.77	80.2
J-1344	5,150.04	31	5,320.17	73.7
J-1140	5,122.28	7	5,313.38	82.8

PROPOSED SYSTEM
NODE TABLE

Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-1662	5,203.25	4	5,481.44	120.5
J-1643	5,198.85	6	5,481.46	122.5
J-1701	5,048.95	2	5,179.94	56.8
J-1478	5,142.16	2	5,319.53	76.9
J-1241	5,197.41	6	5,481.44	123.1
J-687	5,181.50	2	5,322.84	61.2
J-1822	5,025.07	5	5,179.89	67.1
J-1129	5,124.68	2	5,318.82	84.1
J-1357	5,017.43	4	5,179.90	70.4
J-761	5,196.46	1	5,310.79	49.5
J-659	4,988.88	0	5,179.67	82.7
J-1038	5,010.34	14	5,179.54	73.3
J-1571	5,055.38	3	5,179.96	54
J-2047	5,071.62	11	5,318.23	106.9
J-1016	5,011.19	4	5,179.88	73.1
J-1568	5,016.51	7	5,179.89	70.8
J-1432	5,015.75	9	5,180.01	71.2
J-1172	5,150.43	9	5,320.24	73.6
J-1752	5,077.10	4	5,318.22	104.5
J-940	5,179.89	3	5,495.27	136.7
J-847	5,289.14	14	5,495.27	89.3
J-1281	5,140.32	6	5,319.19	77.5
J-1136	5,093.34	3	5,313.11	95.2
J-1577	5,038.75	27	5,179.79	61.1
J-1070	5,281.46	4	5,495.27	92.6
J-1343	5,183.66	4	5,495.26	135
J-860	5,147.54	6	5,320.24	74.8
J-1326	5,106.40	23	5,318.52	91.9
J-1871	4,997.15	3	5,179.48	79
J-1513	5,192.75	1	5,493.75	130.4
J-914	5,192.19	5	5,495.24	131.3
J-619	5,071.95	2	5,313.12	104.5
J-1769	5,240.16	4	5,481.27	104.5
J-1730	5,103.61	7	5,318.52	93.1
J-1983	5,218.70	2	5,481.36	113.8
J-937	5,137.86	0	5,320.08	79
J-1808	5,037.04	3	5,180.31	62.1
J-1237	5,059.32	1	5,317.70	112
J-1754	5,231.43	0	5,481.27	108.3
J-1425	5,070.31	2	5,180.47	47.7
J-1664	5,004.11	2	5,179.90	76.2
J-1998	5,194.59	4	5,481.57	124.3
J-1186	5,151.32	2	5,320.28	73.2
J-1932	5,272.90	5	5,495.26	96.4
J-1721	5,216.05	2	5,495.18	120.9

PROPOSED SYSTEM
NODE TABLE

Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-1114	5,184.02	4	5,493.78	134.2
J-1970	4,999.77	4	5,179.69	78
J-1560	5,284.02	8	5,495.31	91.6
J-1890	5,000.07	2	5,179.69	77.8
J-836	5,203.38	15	5,481.39	120.5
J-1051	5,051.78	3	5,179.93	55.5
J-1268	5,213.45	3	5,481.34	116.1
J-1819	5,010.96	7	5,179.88	73.2
J-1190	5,205.58	16	5,493.63	124.8
J-950	5,242.36	2	5,481.27	103.5
J-1248	5,220.51	2	5,495.50	119.2
J-1676	5,006.60	15	5,179.39	74.9
J-2092	5,146.52	2	5,309.59	70.7
J-1435	5,235.73	4	5,495.48	112.5
J-652	5,127.99	4	5,319.21	82.9
J-1427	5,119.62	3	5,319.31	86.5
J-658	5,007.39	5	5,179.60	74.6
J-1230	5,018.11	4	5,179.91	70.1
J-1234	5,173.43	1	5,310.74	59.5
J-1197	5,141.05	2	5,319.89	77.5
J-1561	5,204.23	3	5,481.38	120.1
J-620	5,105.58	4	5,313.36	90
J-1384	5,044.43	2	5,179.95	58.7
J-1497	5,051.61	11	5,310.70	112.3
J-968	5,194.42	7	5,481.66	124.5
J-1880	4,988.55	0	5,179.62	82.8
J-925	5,052.33	5	5,180.54	55.6
J-664	5,053.74	6	5,179.93	54.7
J-1316	5,220.61	30	5,481.30	113
J-662	5,142.16	1	5,320.78	77.4
J-603	5,162.04	2	5,321.42	69.1
J-650	5,089.11	3	5,313.07	97
J-807	5,121.62	4	5,318.69	85.4
J-1650	5,222.41	1	5,495.14	118.2
J-1917	5,240.78	4	5,495.80	110.5
J-797	5,195.87	1	5,493.75	129.1
J-991	5,160.76	1	5,310.76	65
J-1369	5,217.92	10	5,494.45	119.8
J-1298	5,234.48	11	5,493.49	112.2
J-1773	5,230.91	3	5,494.52	114.2
J-622	5,032.19	4	5,180.23	64.1
J-720	5,241.57	1	5,495.84	110.2
J-2069	5,153.48	6	5,319.87	72.1
J-1592	5,210.27	2	5,493.56	122.8
J-1257	5,076.12	2	5,313.12	102.7

PROPOSED SYSTEM
NODE TABLE

Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-1809	5,119.46	3	5,319.31	86.6
J-1121	5,039.21	4	5,175.07	58.9
J-1864	5,102.04	2	5,312.40	91.1
J-644	5,050.53	2	5,179.93	56.1
J-1867	5,076.25	5	5,314.97	103.4
J-1061	5,119.98	8	5,320.81	87
J-1092	5,129.01	2	5,319.45	82.5
J-1548	5,130.02	2	5,318.81	81.8
J-1611	5,079.17	16	5,180.52	43.9
J-632	5,022.51	4	5,179.91	68.2
J-679	5,132.91	3	5,319.43	80.8
J-942	5,159.45	10	5,319.87	69.5
J-1006	5,120.57	5	5,318.70	85.9
J-1502	5,208.73	5	5,495.10	124.1
J-743	5,099.12	6	5,312.72	92.6
J-892	5,132.45	5	5,313.21	78.3
J-2007	5,218.47	8	5,493.55	119.2
J-808	5,207.19	1	5,495.26	124.8
J-826	5,159.71	4	5,320.76	69.8
J-1446	5,221.95	3	5,481.34	112.4
J-1636	5,191.24	1	5,495.24	131.7
J-1353	5,233.83	9	5,481.33	107.2
J-1254	5,044.07	5	5,310.97	115.6
J-980	5,161.58	2	5,310.74	64.6
J-1364	5,088.95	2	5,313.08	97.1
J-1966	5,200.56	1	5,495.27	127.7
J-1318	5,185.37	1	5,495.26	134.3
J-794	5,003.97	4	5,179.53	76.1
J-1626	5,128.05	2	5,318.81	82.7
J-625	5,217.95	3	5,481.28	114.1
J-1002	5,062.60	7	5,310.66	107.5
J-1414	5,120.61	6	5,318.70	85.8
J-726	5,022.87	9	5,180.01	68.1
J-1220	5,130.55	3	5,318.80	81.6
J-1368	5,045.80	3	5,179.95	58.1
J-1826	5,212.14	4	5,495.44	122.8
J-605	5,237.44	3	5,496.59	112.3
J-834	5,266.21	28	5,495.25	99.2
J-1175	5,001.05	1	5,179.36	77.3
J-1994	5,223.00	6	5,495.67	118.1
J-1613	5,118.05	2	5,319.60	87.3
J-1929	5,148.03	12	5,320.67	74.8
J-862	5,103.22	0	5,313.07	90.9
J-985	5,129.79	1	5,309.60	77.9
J-858	5,198.49	4	5,493.79	128

PROPOSED SYSTEM
NODE TABLE

Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-663	5,143.90	3	5,319.51	76.1
J-1328	5,021.63	2	5,180.11	68.7
J-1741	5,150.43	4	5,319.77	73.4
J-765	5,231.20	4	5,495.42	114.5
J-785	5,233.11	1	5,495.20	113.6
J-717	5,131.27	2	5,319.32	81.5
J-1863	5,163.59	8	5,309.85	63.4
J-999	5,215.59	13	5,495.03	121.1
J-1833	5,059.06	0	5,317.71	112.1
J-1511	5,111.22	1	5,310.71	86.4
J-1495	5,159.16	3	5,310.76	65.7
J-1914	5,178.64	1	5,310.74	57.2
J-1736	5,187.54	5	5,310.78	53.4
J-1302	5,080.29	3	5,180.48	43.4
J-1751	5,159.35	3	5,322.82	70.8
J-1595	5,141.37	2	5,319.37	77.1
J-1226	5,108.76	0	5,318.46	90.9
J-830	5,200.82	3	5,481.46	121.6
J-1025	5,030.22	6	5,179.79	64.8
J-1472	5,164.50	10	5,319.86	67.3
J-733	5,098.33	4	5,313.12	93.1
J-1969	5,010.44	5	5,179.59	73.3
J-1534	5,160.70	4	5,322.48	70.1
J-1813	5,018.34	3	5,180.03	70.1
J-1510	5,047.12	4	5,175.06	55.4
J-1896	5,014.97	3	5,179.90	71.5
J-1097	5,113.03	9	5,318.89	89.2
J-825	5,218.70	1	5,481.36	113.8
J-1062	5,149.05	8	5,306.90	68.4
J-777	5,152.96	2	5,320.24	72.5
J-803	5,000.76	2	5,179.61	77.5
J-2093	5,140.23	9	5,311.41	74.2
J-1471	5,213.95	3	5,481.37	115.9
J-645	5,231.79	5	5,494.78	114
J-955	5,140.62	10	5,319.46	77.5
J-1075	5,138.36	5	5,320.77	79
J-1682	5,011.52	21	5,179.93	73
J-1940	5,051.28	8	5,310.92	112.5
J-1285	5,104.30	3	5,319.29	93.2
J-1228	5,216.93	10	5,481.36	114.6
J-1879	5,002.69	7	5,179.87	76.8
J-1617	5,167.49	7	5,310.90	62.1
J-921	5,231.89	1	5,495.17	114.1
J-1831	5,022.31	5	5,179.91	68.3
J-954	5,200.33	4	5,481.57	121.9

PROPOSED SYSTEM
NODE TABLE

Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-699	5,069.89	1	5,180.47	47.9
J-1984	5,152.56	1	5,320.76	72.9
J-1847	5,274.44	2	5,495.31	95.7
J-1892	5,159.78	3	5,322.46	70.5
J-859	5,071.07	13	5,310.71	103.8
J-1939	5,175.36	3	5,493.81	138
J-1794	5,130.94	2	5,319.37	81.6
J-1017	5,080.52	1	5,312.79	100.6
J-657	5,273.00	3	5,495.31	96.3
J-1000	5,085.08	4	5,313.11	98.8
J-1963	5,180.42	2	5,323.67	62.1
J-1779	4,994.89	5	5,179.85	80.1
J-1426	5,226.58	3	5,496.53	117
J-727	5,218.05	3	5,481.32	114.1
J-1895	5,129.66	2	5,319.33	82.2
J-649	5,148.56	4	5,306.29	68.3
J-1947	5,042.36	0	5,311.36	116.6
J-1198	5,196.26	1	5,493.75	128.9
J-813	5,062.14	3	5,180.47	51.3
J-1024	5,003.25	1	5,179.34	76.3
J-781	5,010.67	2	5,179.57	73.2
J-1849	5,194.20	4	5,493.97	129.9
J-874	5,116.18	8	5,312.85	85.2
J-1123	5,131.33	1	5,319.32	81.5
J-1261	5,172.87	1	5,310.77	59.8
J-809	5,130.09	2	5,319.74	82.2
J-907	5,032.32	5	5,180.00	64
J-1787	5,123.95	5	5,319.49	84.7
J-1191	5,137.90	8	5,320.25	79
J-1286	5,227.13	5	5,481.33	110.1
J-1270	5,099.74	1	5,314.11	92.9
J-1633	5,053.88	6	5,310.59	111.2
J-1479	5,056.47	2	5,179.96	53.5
J-814	5,188.75	10	5,481.50	126.9
J-2041	5,075.79	5	5,313.53	103
J-1079	5,139.31	4	5,319.43	78
J-1803	5,127.04	8	5,309.61	79.1
J-1784	5,042.66	4	5,179.95	59.5
J-628	5,209.06	2	5,495.43	124.1
J-1202	5,180.35	7	5,322.83	61.7
J-1487	5,254.40	4	5,495.21	104.3
J-1209	5,080.02	14	5,180.51	43.5
J-1480	5,164.50	1	5,310.76	63.4
J-1658	5,211.22	5	5,481.38	117.1
J-600	5,219.03	2	5,495.08	119.6

PROPOSED SYSTEM
NODE TABLE

Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-2063	5,010.47	4	5,179.59	73.3
J-1386	5,094.69	1	5,314.21	95.1
J-1235	5,171.36	0	5,310.80	60.4
J-933	5,066.34	0	5,179.92	49.2
J-1429	5,004.99	6	5,179.60	75.7
J-1608	5,057.52	12	5,180.10	53.1
J-1246	5,047.77	9	5,175.05	55.2
J-1589	5,136.95	8	5,319.34	79
J-1712	5,128.55	4	5,320.25	83.1
J-976	5,171.62	2	5,310.77	60.3
J-772	5,147.84	7	5,319.51	74.4
J-1778	5,080.42	4	5,305.33	97.5
J-1065	5,052.92	10	5,179.93	55
J-1076	5,139.44	40	5,319.55	78
J-1481	5,224.08	2	5,494.54	117.2
J-1855	5,133.27	9	5,319.35	80.6
J-1003	5,063.72	3	5,313.95	108.4
J-757	5,092.39	2	5,313.11	95.6
J-1756	5,161.16	1	5,310.75	64.8
J-1240	5,264.83	7	5,495.25	99.8
J-1455	5,200.00	7	5,481.45	122
J-1653	5,060.67	7	5,314.29	109.9
J-850	5,266.90	2	5,497.06	99.7
J-746	5,231.04	7	5,481.28	108.4
J-1887	5,000.46	4	5,179.61	77.6
J-1282	5,049.22	2	5,179.96	56.6
J-844	5,019.07	21	5,180.05	69.8
J-741	5,030.84	99	5,179.78	64.5
J-1283	5,210.93	10	5,493.55	122.5
J-1945	5,198.43	1	5,493.79	128
J-1391	5,248.26	1	5,495.20	107
J-2053	5,189.60	5	5,481.51	126.5
J-1374	5,095.61	2	5,319.16	96.9
J-1116	5,068.51	5	5,180.44	48.5
J-1539	5,014.77	1	5,179.90	71.5
J-1923	5,154.69	1	5,320.73	71.9
J-967	5,212.80	2	5,494.44	122
J-1637	5,221.36	5	5,481.36	112.7
J-1066	5,227.53	1	5,494.64	115.7
J-1134	5,107.75	6	5,310.69	87.9
J-2030	5,089.87	7	5,313.02	96.7
J-1771	5,009.88	5	5,179.57	73.5
J-737	5,067.75	3	5,313.12	106.3
J-2085	5,213.29	1	5,494.44	121.8
J-1400	5,139.70	1	5,309.60	73.6

PROPOSED SYSTEM
NODE TABLE

Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-1720	5,037.24	1	5,180.26	62
J-1012	5,069.92	2	5,180.48	47.9
J-1630	5,144.52	1	5,319.77	75.9
J-722	5,174.94	2	5,495.30	138.8
J-1262	5,120.90	8	5,312.40	83
J-690	5,258.56	3	5,496.73	103.2
J-806	5,078.35	0	5,180.51	44.3
J-903	5,109.49	1	5,314.21	88.7
J-1287	5,007.91	9	5,179.84	74.5
J-2081	5,123.89	2	5,319.22	84.6
J-1370	5,198.26	1	5,493.79	128.1
J-1737	5,235.99	0	5,495.17	112.3
J-1674	5,280.35	9	5,495.25	93.1
J-1060	5,262.17	3	5,495.30	101
J-1208	5,154.63	4	5,320.12	71.7
J-1387	5,122.84	4	5,319.61	85.3
J-624	5,154.30	0	5,310.74	67.8
J-2009	5,088.13	2	5,319.09	100.1
J-1410	5,126.32	3	5,319.42	83.7
J-347	5,156.89	65	5,321.01	71.1
J-343	5,011.55	0	5,179.67	72.8
J-342	5,198.72	0	5,325.32	54.9
J-341	5,199.15	0	5,325.32	54.7
J-340	5,199.15	0	5,325.33	54.7
J-338	5,177.79	2	5,309.30	57
J-337	5,183.63	6	5,310.63	55
J-336	5,133.70	4	5,309.62	76.2
J-335	5,160.21	5	5,309.49	64.7
J-334	5,163.26	9	5,496.48	144.4
J-332	5,176.84	5	5,496.48	138.5
J-333	5,177.36	9	5,496.48	138.3
J-330	5,294.49	0	5,500.50	89.3
J-329	5,294.49	0	5,500.50	89.3
J-326	5,132.61	3	5,314.21	78.7
J-325	5,126.45	3	5,314.33	81.4
J-324	5,097.44	0	5,317.65	95.4
J-321	5,022.31	13	5,176.95	67
J-320	5,228.94	5	5,495.23	115.4
J-319	5,180.02	4	5,493.85	136
J-318	5,085.90	0	5,318.15	100.6
J-314	5,056.93	16	5,316.78	112.6
J-312	5,073.43	9	5,305.33	100.5
J-310	5,138.45	6	5,312.44	75.4
J-305	5,126.35	0	5,320.50	84.1
J-301	5,110.00	0	5,320.86	91.4

PROPOSED SYSTEM
NODE TABLE

Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-299	5,123.40	4	5,310.71	81.2
J-298	5,166.80	2	5,309.62	61.9
J-294	5,109.26	0	5,312.41	88
J-293	5,179.14	2	5,309.26	56.4
J-290	5,297.31	0	5,500.46	88
J-289	5,026.05	6	5,179.94	66.7
J-273	4,990.72	3	5,179.82	81.9
J-272	5,017.03	0	5,179.96	70.6
J-251	5,030.98	4	5,176.95	63.2
J-250	5,029.76	1	5,176.85	63.7
J-241	5,148.69	32	5,309.25	69.6
J-237	5,071.26	13	5,305.46	101.5
J-231	5,037.37	0	5,312.17	119.1
J-230	5,084.85	13	5,305.65	95.7
J-229	5,111.91	39	5,308.68	85.3
J-209	5,227.53	105	5,306.21	34.1
J-208	5,157.61	105	5,305.33	64
J-207	5,073.40	4	5,305.44	100.5
J-204	5,203.22	105	5,306.21	44.6
J-199	5,111.62	1	5,318.58	89.7
J-197	5,078.15	8	5,318.64	104.2
J-194	5,102.27	0	5,318.00	93.5
J-181	5,200.40	0	5,482.95	122.4
J-180	5,200.23	0	5,482.95	122.5
J-179	5,200.23	0	5,482.96	122.5
J-178	5,200.04	0	5,482.95	122.6
J-177	5,199.71	0	5,482.95	122.7
J-176	5,199.71	0	5,482.95	122.7
J-174	5,087.86	3	5,313.55	97.8
J-173	5,141.83	5	5,312.54	74
J-172	5,103.15	1	5,314.11	91.4
J-170	5,095.71	5	5,313.40	94.3
J-167	5,152.69	5	5,314.23	70
J-165	5,159.29	3	5,314.22	67.1
J-158	5,294.36	0	5,500.49	89.3
J-133	5,294.36	0	5,500.48	89.3
J-132	5,040.03	0	5,180.46	60.9
J-118	5,040.03	3	5,180.46	60.8
J-67	5,052.99	45	5,180.82	55.4
J-42	5,197.25	0	5,325.19	55.4
J-41	5,190.00	0	5,192.52	1.1
J-38	5,198.36	0	5,325.32	55
J-30	5,190.00	0	5,192.79	1.2
J-29	5,112.01	4	5,318.52	89.5
J-26	5,127.46	9	5,319.31	83.1

PROPOSED SYSTEM
NODE TABLE

Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-20	5,136.13	1	5,319.32	79.4
J-19	5,148.30	13	5,322.33	75.4
J-18	5,124.74	2	5,319.13	84.2
J-17	5,131.70	1	5,318.85	81.1
J-16	5,031.01	26	5,180.14	64.6
J-15	5,053.02	0	5,180.67	55.3
J-11	5,198.92	3	5,481.67	122.5
J-169	5,256.99	42	5,495.81	103.5
J-168	5,161.49	1	5,321.01	69.1
J-164	5,161.81	2	5,320.71	68.9
J-163	5,156.83	1	5,320.86	71.1
J-162	5,185.47	0	5,324.38	60.2
J-160	5,157.61	27	5,320.32	70.5
J-159	5,153.87	10	5,320.04	72
J-157	5,155.61	4	5,320.66	71.5
J-156	5,160.83	8	5,320.32	69.1
J-155	5,096.85	1	5,310.86	92.7
J-154	5,044.85	0	5,311.24	115.4
J-153	5,047.48	0	5,311.92	114.6
J-152	5,010.96	8	5,179.54	73
J-151	5,009.29	0	5,179.67	73.8
J-150	5,176.22	0	5,324.02	64
J-149	5,011.98	7	5,179.57	72.6
J-148	5,018.61	34	5,180.11	70
J-147	5,105.00	2	5,320.85	93.5
J-146	5,076.02	13	5,310.55	101.6
J-145	5,014.34	6	5,179.89	71.7
J-144	5,121.89	2	5,319.13	85.5
J-143	5,029.66	26	5,180.22	65.2
J-142	5,100.79	6	5,319.04	94.6
J-141	5,133.07	11	5,320.94	81.4
J-140	5,131.76	2	5,320.08	81.6
J-139	5,160.70	4	5,321.09	69.5
J-138	5,185.67	4	5,322.85	59.4
J-137	5,184.02	4	5,323.79	60.6
J-136	5,148.00	3	5,321.09	75
J-135	5,151.15	1	5,321.06	73.6
J-134	5,150.30	10	5,321.50	74.2
J-131	5,172.64	2	5,314.28	61.4
J-130	5,187.50	0	5,313.10	54.4
J-129	5,020.18	0	5,312.76	126.8
J-128	5,039.93	0	5,180.46	60.9
J-127	5,026.94	6	5,179.95	66.3
J-126	5,011.95	4	5,179.88	72.8
J-125	5,131.70	0	5,185.46	23.3

PROPOSED SYSTEM
NODE TABLE

Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-124	5,122.02	3	5,318.99	85.3
J-123	5,082.91	188	5,318.66	102.2
J-122	5,073.82	1	5,317.94	105.8
J-121	4,995.97	16	5,179.34	79.5
J-120	5,089.18	16	5,318.80	99.5
J-119	5,120.44	0	5,187.45	29
J-117	5,153.15	1	5,320.96	72.7
J-116	5,162.01	1	5,321.01	68.9
J-115	5,196.79	14	5,481.54	123.4
J-114	5,200.33	0	5,482.95	122.5
J-113	5,220.38	5	5,481.31	113.1
J-112	5,213.91	16	5,494.91	121.8
J-111	5,277.63	5	5,497.58	95.3
J-109	5,133.70	5	5,312.14	77.3
J-110	5,190.06	7	5,312.44	53
J-108	5,152.30	53	5,305.10	66.2
J-107	5,198.79	125	5,306.25	46.6
J-106	5,143.38	5	5,308.22	71.4
J-105	5,089.50	5	5,310.62	95.8
J-104	5,092.13	0	5,310.86	94.8
J-103	5,069.89	0	5,305.44	102.1
J-102	5,078.81	13	5,305.32	98.1
J-101	5,060.70	4	5,305.40	106
J-100	5,051.68	13	5,179.35	55.3
J-99	5,029.01	7	5,179.36	65.1
J-98	5,009.88	13	5,179.73	73.6
J-97	4,997.35	0	5,179.31	78.8
J-96	4,991.80	29	5,179.47	81.3
J-95	5,010.14	5	5,179.58	73.4
J-94	4,998.23	4	5,179.63	78.6
J-93	5,005.52	40	5,179.87	75.5
J-92	4,989.90	6	5,179.54	82.2
J-91	5,007.71	8	5,179.93	74.6
J-90	5,069.16	14	5,180.50	48.2
J-89	5,048.00	0	5,180.61	57.5
J-88	5,046.92	30	5,180.61	57.9
J-87	5,035.14	37	5,180.19	62.8
J-86	5,032.48	24	5,180.13	64
J-85	5,025.07	14	5,180.15	67.2
J-84	5,053.38	0	5,180.67	55.2
J-83	5,070.84	12	5,317.48	106.9
J-81	5,052.60	0	5,180.67	55.5
J-80	5,066.87	0	5,182.80	50.2
J-79	5,053.09	0	5,180.66	55.3
J-78	5,067.56	0	5,182.84	50

PROPOSED SYSTEM
NODE TABLE

Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-76	5,104.04	0	5,317.66	92.6
J-74	5,098.07	0	5,317.58	95.1
J-73	5,101.68	0	5,317.67	93.6
J-72	5,148.85	7	5,319.67	74
J-71	5,142.72	5	5,319.48	76.6
J-70	5,127.96	3	5,319.35	82.9
J-69	5,073.99	9	5,318.71	106
J-68	5,067.52	0	5,317.41	108.3
J-66	5,111.55	3	5,319.30	90
J-64	5,100.79	4	5,320.96	95.4
J-63	5,136.81	0	5,321.37	80
J-62	5,195.54	0	5,325.00	56.1
J-61	5,146.49	0	5,190.44	19
J-60	5,190.00	0	5,192.77	1.2
J-59	5,185.63	0	5,192.07	2.8
J-58	5,163.62	7	5,321.23	68.3
J-57	5,197.08	4	5,481.63	123.3
J-56	5,236.29	2	5,481.27	106.1
J-55	5,236.03	2	5,481.27	106.3
J-54	5,244.75	5	5,481.27	102.5
J-53	5,236.29	5	5,481.27	106.1
J-52	5,251.22	3	5,481.27	99.7
J-51	5,231.10	6	5,481.27	108.4
J-50	5,220.70	8	5,481.29	112.9
J-48	5,068.54	20	5,305.43	102.6
J-46	5,296.36	0	5,306.25	4.3
J-45	5,295.97	0	5,306.09	4.4
J-44	5,295.60	0	5,500.48	88.8
J-43	5,290.78	0	5,305.82	6.5
J-40	5,188.16	6	5,495.21	133
J-39	5,224.28	1	5,494.71	117.2
J-37	5,096.56	0	5,313.47	94
J-36	5,057.88	3	5,313.60	110.8
J-35	5,091.21	0	5,313.03	96.1
J-34	5,176.48	14	5,310.83	58.2
J-33	5,236.71	4	5,495.20	112
J-32	5,215.29	17	5,494.69	121.1
J-31	5,200.17	10	5,494.22	127.4
J-28	5,239.57	2	5,498.25	112.1
J-27	5,289.57	0	5,305.78	7
J-25	5,290.58	0	5,305.89	6.6
J-24	5,296.43	0	5,306.26	4.3
J-22	5,288.91	0	5,305.82	7.3
J-21	5,296.06	0	5,306.08	4.3
J-13	5,137.31	0	5,189.70	22.7

PROPOSED SYSTEM
NODE TABLE

Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-12	5,066.87	16	5,317.38	108.5
J-10	5,020.02	9	5,312.85	126.9
J-8	5,232.25	0	5,306.23	32.1
J-7	5,287.14	0	5,306.25	8.3
J-6	5,182.42	2	5,312.44	56.3
J-5	5,232.09	0	5,307.48	32.7
J-4	5,110.96	3	5,312.40	87.3
J-387	5,106.70	7	5,317.02	91.1
J-403	5,187.08	0	5,313.14	54.6
J-502	5,216.18	5	5,495.20	120.9

PROPOSED SYSTEM
PIPE TABLE

Label	Length (ft)	Start Node	Stop Node	Diameter (in)	Hazen-Williams C	Flow (gpm)
PRV-CS-A	39	1616-A	PRV-CS	99	130	0
PRV-CS-B	39	PRV-CS	1616-B	99	130	0
PRV-GV1-A	0	1615-A	PRV-GV1	99	130	30
PRV-GV1-B	0	PRV-GV1	1615-B	99	130	30
PRV-GV2-A	29	1614-A	PRV-GV2	99	130	39
PRV-GV2-B	29	PRV-GV2	1614-B	99	130	39
PRV-EC3-A	21	1613-A	PRV-EC3	99	130	0
PRV-EC3-B	21	PRV-EC3	1613-B	99	130	0
PRV-EC2-A	7	1612-A	PRV-EC2	99	130	0
PRV-EC2-B	7	PRV-EC2	1612-B	99	130	0
PRV-EC1-A	24	1611-A	PRV-EC1	99	130	0
PRV-EC1-B	24	PRV-EC1	1611-B	99	130	0
PRV-VR4-A	45	1609-A	PRV-VR4	99	130	0
PRV-VR4-B	45	PRV-VR4	1609-B	99	130	0
PRV-NR2-A	11	1606-A	PRV-NR2	99	130	0
PRV-NR2-B	11	PRV-NR2	1606-B	99	130	0
PRV-VR1-A	58	1601-A	PRV-VR1	99	130	0
PRV-VR1-B	58	PRV-VR1	1601-B	99	130	0
PRV-VR3-A	36	1600-A	PRV-VR3	99	130	0
PRV-VR3-B	36	PRV-VR3	1600-B	99	130	0
PRV-OT-A	3	1598-A	PRV-OT	99	130	0
PRV-OT-B	3	PRV-OT	1598-B	99	130	0
PRV-NR1-A	0	1597-A	PRV-NR1	99	130	0
PRV-NR1-B	0	PRV-NR1	1597-B	99	130	0
PRV-VR2-A	128	1596-A	PRV-VR2	99	130	0
PRV-VR2-B	128	PRV-VR2	1596-B	99	130	0
170-A	669	206	170	99	130	0
170-B	669	170	200	99	130	0
PRV-WCR11-A	17	233	PRV-WCR11	99	130	0
PRV-WCR11-B	17	PRV-WCR11	219	99	130	0
PRV-EC4-A	14	J-1348	PRV-EC4	99	130	0
PRV-EC4-B	14	PRV-EC4	J-933	99	130	0
Future4B-A	13	288	Future4B	99	130	653
Future4B-B	13	Future4B	289	99	130	653
PMP-Future-A	11	275	PMP-Future	99	130	6,737
PMP-Future-B	11	PMP-Future	276	99	130	6,737
PMP-13-A	13	1593-A	PMP-13	99	130	4,653
PMP-13-B	13	PMP-13	1593-B	99	130	4,653
PMP-12-A	15	1592-A	PMP-12	99	130	6,737
PMP-12-B	15	PMP-12	1592-B	99	130	6,737
PMP-9-A	12	1589-A	PMP-9	99	130	218
PMP-9-B	12	PMP-9	1589-B	99	130	218
PMP-8-A	14	1588-A	PMP-8	99	130	218
PMP-8-B	14	PMP-8	1588-B	99	130	218
PMP-7-A	15	1587-A	PMP-7	99	130	49

PROPOSED SYSTEM
PIPE TABLE

Label	Length (ft)	Start Node	Stop Node	Diameter (in)	Hazen-Williams C	Flow (gpm)
PMP-7-B	15	PMP-7	1587-B	99	130	49
PMP-6-A	14	1586-A	PMP-6	99	130	49
PMP-6-B	14	PMP-6	1586-B	99	130	49
PMP-5-A	13	1585-A	PMP-5	99	130	4,653
PMP-5-B	13	PMP-5	1585-B	99	130	4,653
PMP-4-A	11	1584-A	PMP-4	99	130	764
PMP-4-B	11	PMP-4	1584-B	99	130	764
PMP-3-A	9	1583-A	PMP-3	99	130	765
PMP-3-B	9	PMP-3	1583-B	99	130	765
PMP-2-A	10	1582-A	PMP-2	99	130	392
PMP-2-B	10	PMP-2	1582-B	99	130	392
PMP-1-A	13	1581-A	PMP-1	99	130	196
PMP-1-B	13	PMP-1	1581-B	99	130	196
PMP-11-A	13	1591-A	PMP-11	99	130	0
PMP-11-B	13	PMP-11	1591-B	99	130	0
PMP-10-A	15	1590-A	PMP-10	99	130	0
PMP-10-B	15	PMP-10	1590-B	99	130	0
70	263	46	45	8	110	8
69	443	42	46	12	110	15
68	533	42	44	12	110	515
67	748	40	42	12	110	542
66	459	40	41	8	110	11
65	192	J-162	40	12	110	570
64	621	39	J-64	12	110	145
63	485	26	28	8	110	10
62	757	38	30	8	110	-50
61	738	26	29	8	110	-25
60	576	28	31	8	110	-41
59	545	27	32	8	110	8
58	567	29	30	8	110	-70
57	276	28	29	8	110	-45
56	269	27	28	8	110	-44
55	1,173	37	38	8	110	1
54	612	37	38	8	110	2
53	1,423	31	37	8	110	3
52	3,935	35	36	12	110	-93
51	1,264	36	34	12	110	-234
50	963	20	34	8	110	-40
49	1,016	12	23	8	110	29
48	820	11	12	8	110	-40
47	732	10	23	8	110	7
46	613	11	10	8	110	-29
45	217	6	11	8	110	-19
44	739	9	22	8	110	-9
43	821	7	9	8	110	-21

PROPOSED SYSTEM
PIPE TABLE

Label	Length (ft)	Start Node	Stop Node	Diameter (in)	Hazen-Williams C	Flow (gpm)
42	276	22	23	8	110	0
41	291	21	22	8	110	8
40	588	20	23	8	110	20
39	558	21	20	8	110	-20
38	800	8	21	8	110	-11
37	1,002	25	14	8	110	-59
36	1,933	15	16	8	110	-44
35	165	18	19	8	110	-70
34	517	17	18	8	110	-70
33	452	17	J-1899	12	110	-321
32	670	16	17	12	110	-391
31	306	15	16	12	110	-347
30	306	14	15	12	110	-391
29	284	24	14	12	110	-333
28	699	25	24	8	110	14
27	388	26	25	8	110	-12
26	741	27	26	8	110	-28
25	824	33	27	8	110	-47
24	284	31	30	12	110	-272
23	269	32	31	12	110	-228
22	388	33	32	12	110	-235
21	231	34	33	12	110	-274
20	2,227	13	33	12	110	-9
19	859	4	13	12	110	-231
18	1,693	2	1	8	110	-1
P-17	1,414	J-64	35	12	110	106
16	859	39	4	12	110	-240
15	1,612	6	5	8	110	7
14	187	13	24	12	110	-347
13	225	12	13	8	110	-125
12	292	10	12	8	110	-56
11	261	9	10	8	110	-19
10	276	8	9	8	110	-7
9	1,014	7	8	8	110	-18
8	291	6	7	8	110	-39
7	269	5	6	8	110	-19
6	218	4	5	8	110	-26
5	486	3	4	12	110	-17
4	292	2	3	12	110	10
3	429	1	2	12	110	9
2	702	1	J-58	12	110	-33
1	372	J-116	J-58	12	110	-224
P-4157	113	J-2268	J-2183	8	110	6
P-4156	231	J-2268	J-6	12	110	-21
P-4155	1,452	J-310	J-2268	12	110	-15

PROPOSED SYSTEM
PIPE TABLE

Label	Length (ft)	Start Node	Stop Node	Diameter (in)	Hazen-Williams C	Flow (gpm)
P-4154	201	J-2266	J-2267	8	110	22
P-4153	18	J-2267	1598-B	8	110	0
P-4152	436	J-289	J-2267	8	110	-22
P-4151	144	J-314	J-2265	12	110	-433
P-4150	116	J-2265	J-2247	30	110	4,564
P-4149	633	J-12	J-2265	30	110	4,997
P-4148	1,021	J-2263	J-2264	8	110	6
P-4147	590	J-2262	J-2263	12	110	307
P-4146	2,810	J-2261	J-2262	12	110	210
P-4145	2,300	J-2260	J-2261	12	110	-110
P-4143	343	J-2259	J-2072	12	110	390
P-4142	113	J-2258	J-2259	12	110	390
P-4141	459	J-2257	J-2258	12	110	404
P-4140	578	J-314	J-2257	12	110	418
P-4139	826	J-2254	J-2256	18	110	-1,088
P-4138	249	J-2254	J-2255	8	110	0
P-4137	740	J-2250	J-2254	18	110	-1,073
P-4136	65	J-2253	J-83	8	110	-135
P-4135	352	J-2251	J-2253	8	110	-135
P-4134	313	J-2251	J-2252	8	110	0
P-4133	359	J-2250	J-2251	8	110	-115
P-4132	153	J-2248	J-2250	18	110	-1,177
P-4131	272	J-2248	J-2249	8	110	3
P-4130	241	J-2247	J-2248	18	110	-1,174
P-4129	360	J-2247	J-1196	30	110	5,738
P-4127	199	J-1294	J-95	8	110	-56
P-4126	294	J-2245	J-1540	8	110	58
P-4125	161	J-2245	J-2246	8	110	5
P-4124	312	J-2244	J-2245	8	110	69
P-4123	216	J-2244	J-1287	8	110	-140
P-4122	294	J-2242	J-2244	8	110	-66
P-4121	179	J-2242	J-2243	8	110	5
P-4120	335	J-1667	J-2242	8	110	-55
P-4119	997	J-2221	J-2266	8	110	42
P-4118	784	J-127	J-2221	12	110	-132
P-4116	372	J-2218	J-2220	12	110	-96
P-4115	1,275	J-2241	J-10	30	110	6,087
P-4114	1,345	J-2072	J-2241	30	110	6,087
P-4113	396	J-2240	J-67	8	110	-25
P-4112	479	J-2239	J-2240	8	110	-20
P-4111	98	J-2233	J-2239	8	110	-15
P-4110	95	J-2238	J-2232	8	110	-55
P-4109	527	J-2237	J-2238	8	110	-50
P-4108	251	J-2236	J-2237	8	110	-42
P-4107	581	J-2235	J-2236	8	110	-28

PROPOSED SYSTEM
PIPE TABLE

Label	Length (ft)	Start Node	Stop Node	Diameter (in)	Hazen-Williams C	Flow (gpm)
P-4106	147	J-2231	J-2235	8	110	-18
P-4105	388	J-2233	J-2234	12	110	-363
P-4104	407	J-2234	J-67	18	110	974
P-4103	2,190	J-80	J-2234	18	110	1,338
P-4102	271	J-2232	J-2233	12	110	-374
P-4101	249	J-2231	J-2232	12	110	-314
P-4100	497	J-2226	J-2231	12	110	-322
P-4099	271	J-2230	J-2223	8	110	78
P-4098	539	J-2230	J-2225	8	110	-34
P-4097	282	J-2228	J-2230	8	110	52
P-4096	196	J-2228	J-2229	8	110	3
P-4095	396	J-2227	J-2228	8	110	60
P-4094	130	J-2226	J-2227	8	110	65
P-4093	276	J-2225	J-2226	12	110	-257
P-4092	294	J-2224	J-2225	12	110	-218
P-4091	298	J-2222	J-2224	12	110	-218
P-4090	163	J-2222	J-2223	8	110	-78
P-4089	370	J-2221	J-2222	12	110	-279
P-4088	364	J-2220	J-2221	12	110	-96
P-4086	144	J-2218	J-2219	8	110	54
P-4085	455	J-2217	J-2218	8	110	-32
P-4084	193	J-2215	J-2217	8	110	-30
P-4083	227	J-2215	J-2216	8	110	2
P-4082	280	J-952	J-2215	8	110	-28
P-4081	325	J-952	J-2214	8	110	0
P-4080	169	J-2213	J-1359	8	110	-10
P-4079	265	J-2213	J-2208	8	110	-22
P-4078	275	J-2212	J-2213	8	110	-22
P-4077	235	J-2212	J-964	8	110	6
P-4076	65	J-2211	J-2212	8	110	-16
P-4075	204	J-2210	J-2211	8	110	3
P-4074	585	J-2209	J-2210	8	110	13
P-4073	213	J-2208	J-2209	8	110	29
P-4072	139	J-1461	J-2208	8	110	55
P-4071	366	J-2197	J-2207	8	110	0
P-4070	700	J-2197	J-2192	8	110	1
P-4069	565	J-1927	J-2198	8	110	18
P-4068	633	J-869	J-2199	12	110	58
P-4067	567	J-1916	J-2200	8	110	32
P-4066	501	J-1559	J-2201	8	110	53
P-4065	342	J-2206	J-1837	8	110	-12
P-4064	291	J-2205	J-2206	8	110	-12
P-4063	251	J-2204	J-2205	8	110	1
P-4062	516	J-2203	J-2204	8	110	1
P-4061	234	J-2195	J-2203	8	110	1

PROPOSED SYSTEM
PIPE TABLE

Label	Length (ft)	Start Node	Stop Node	Diameter (in)	Hazen-Williams C	Flow (gpm)
P-4060	234	J-2194	J-2202	8	110	0
P-4059	711	J-2198	J-2191	8	110	10
P-4058	690	J-2199	J-2190	12	110	43
P-4057	700	J-2200	J-2189	8	110	19
P-4056	711	J-2201	J-2188	8	110	22
P-4055	274	J-2200	J-2201	8	110	-18
P-4054	274	J-2199	J-2200	8	110	-18
P-4053	274	J-2198	J-2199	8	110	-21
P-4052	274	J-2197	J-2198	8	110	-19
P-4051	274	J-2196	J-2197	8	110	-8
P-4048	264	J-2195	J-2196	8	110	2
P-4047	274	J-2194	J-2195	8	110	3
P-4046	163	J-2193	J-2194	8	110	3
P-4045	264	J-2192	J-2193	12	110	16
P-4044	274	J-2191	J-2192	12	110	27
P-4043	284	J-2190	J-2191	12	110	33
P-4042	274	J-2189	J-2190	12	110	6
P-4041	284	J-2188	J-2189	12	110	5
P-4040	241	J-933	J-2188	12	110	0
P-4039	286	J-2184	J-2187	8	110	25
P-4038	363	J-2185	J-2186	8	110	25
P-4037	428	J-2184	J-2185	8	110	25
P-4036	374	J-76	J-2184	8	110	50
P-4035	657	J-2094	J-2165	12	110	560
P-4034	135	J-2183	J-646	8	110	6
P-3531	1,433	J-2165	J-403	12	110	469
P-3534	183	J-1150	J-2166	8	110	0
P-3514	119	1616-B	J-1116	12	110	0
P-3513	191	J-1893	1616-A	12	110	0
P-3512	466	J-87	J-86	12	110	171
P-3511	76	1615-B	J-621	8	110	30
P-3510	132	J-1254	1615-A	8	110	30
P-3509	170	1614-A	J-1127	8	110	-39
P-3508	117	J-1745	1614-B	8	110	-39
P-3507	31	1613-B	J-856	12	110	0
P-3506	30	J-1947	1613-A	12	110	0
P-3505	35	1612-B	J-1450	12	110	0
P-3504	23	J-1833	1612-A	12	110	0
P-3501	102	1596-A	J-31	12	110	0
P-3498	442	J-34	1596-B	12	110	48
P-3497	355	1611-B	J-949	12	110	0
P-3496	27	J-2072	1611-A	12	110	0
P-3495	24	J-2163	J-38	60	110	16,043
P-3494	463	J-2162	J-100	8	110	-40
P-3493	52	J-2162	J-99	8	110	-147

PROPOSED SYSTEM
PIPE TABLE

Label	Length (ft)	Start Node	Stop Node	Diameter (in)	Hazen-Williams C	Flow (gpm)
P-3492	2,386	J-321	J-2162	8	110	-176
P-3491	248	J-2161	J-321	12	110	-159
P-3490	224	1606-B	J-2161	12	110	0
P-3487	369	J-2117	J-28	16	110	713
P-3486	1,887	J-290	J-2117	16	110	1,137
P-3484	1,599	J-387	J-2094	12	110	560
P-3444	367	J-1792	J-26	12	110	47
P-3443	292	J-20	J-1792	12	110	58
P-3442	509	J-2080	J-1781	12	110	-577
P-3441	1,365	J-1781	J-106	12	110	-501
P-3439	2,620	255	J-107	30	110	2,847
P-3438	953	J-106	J-763	30	110	3,478
P-3437	281	J-1114	J-1939	12	110	-136
P-3435	208	J-1114	1601-A	12	110	140
P-3436	302	J-1939	J-319	12	110	-178
P-3434	430	J-1849	J-31	12	110	-380
P-3433	418	J-319	J-1849	12	110	-262
P-3432	243	J-1838	J-645	12	110	-177
P-3430	163	J-39	J-1838	12	110	-225
P-2084	314	J-1838	J-1928	8	110	-51
P-3431	876	J-645	J-112	12	110	-184
P-3429	392	J-999	J-112	12	110	269
P-3428	925	J-320	J-999	12	110	222
P-3427	286	J-785	J-320	12	110	-137
P-3426	259	J-33	J-785	12	110	-11
P-3425	504	J-1391	J-33	12	110	-7
P-3424	460	J-1225	J-1391	12	110	9
P-3423	648	J-502	J-1225	12	110	20
P-3422	362	J-1236	J-1721	12	110	-182
P-3420	2,027	J-32	J-1236	12	110	-223
P-3421	183	J-1721	J-502	12	110	-182
P-3419	179	J-1029	1600-A	12	110	0
P-3418	104	J-40	J-1029	12	110	-28
P-3416	265	J-1556	J-1146	12	110	213
P-3415	304	J-1902	J-1556	12	110	247
P-3414	877	J-720	J-1902	12	110	337
P-3413	459	J-1217	J-720	12	110	613
P-3412	189	J-811	J-1217	12	110	595
P-3411	242	J-850	J-811	12	110	603
P-3410	75	J-1543	J-850	12	110	616
P-3409	1,133	J-1126	J-28	16	110	-711
P-3408	214	J-111	J-1126	12	110	-439
P-3399	493	J-705	J-1180	8	110	-44
P-3392	380	J-332	J-705	8	110	-22
P-3407	963	J-689	J-337	8	110	-157

PROPOSED SYSTEM
PIPE TABLE

Label	Length (ft)	Start Node	Stop Node	Diameter (in)	Hazen-Williams C	Flow (gpm)
P-3406	350	J-336	J-689	8	110	-140
P-3405	322	J-1124	J-624	12	110	-136
P-3403	676	J-337	J-1124	12	110	-164
P-3404	230	J-624	J-1756	12	110	-125
P-3402	296	J-1756	J-1261	12	110	-109
P-3401	483	J-1261	J-761	12	110	-100
P-3400	496	J-761	J-34	12	110	-128
P-3398	535	J-1646	J-1141	12	110	-169
P-3395	400	J-34	J-1646	12	110	-191
P-3397	319	J-1141	J-637	12	110	-185
P-3396	703	J-637	J-974	12	110	-319
P-3394	259	J-974	J-1767	12	110	-389
P-3393	704	J-1767	J-109	12	110	-503
P-3391	717	J-1768	J-174	8	110	-151
P-3390	804	J-1142	J-1768	8	110	-88
P-3389	1,521	J-4	J-1142	8	110	-84
P-3388	723	281	J-310	12	110	-107
P-3387	757	J-4	J-1262	12	110	-13
P-3386	944	J-1155	J-170	8	110	43
P-3385	788	J-174	J-1155	8	110	50
P-3384	312	J-1252	J-1263	12	110	-316
P-3380	216	J-294	J-1252	12	110	-398
P-3383	557	J-1263	J-1385	12	110	-276
P-3382	354	J-1385	J-1957	12	110	-292
P-3381	248	J-1957	J-35	12	110	-226
P-3379	466	J-650	J-1396	12	110	-183
P-3376	180	J-35	J-650	12	110	-226
P-3378	483	J-1396	J-1628	12	110	-190
P-3377	393	J-1628	J-1645	12	110	-213
P-3375	374	J-1645	J-1140	12	110	-222
P-3374	589	J-1140	J-1273	12	110	-170
P-3373	287	J-1273	J-2041	12	110	-256
P-3371	207	J-2041	J-893	12	110	-340
P-3370	187	J-893	J-36	12	110	199
P-3368	2,159	J-2048	J-37	12	110	-506
P-3367	324	J-1013	J-2048	12	110	-503
P-3366	180	J-1857	J-1013	12	110	-371
P-3365	856	J-1260	J-1857	12	110	-267
P-3364	353	J-146	J-1260	12	110	-321
P-3360	335	J-154	J-1254	8	110	156
P-3362	400	J-621	J-2032	8	110	21
P-3361	225	J-2032	J-1638	8	110	11
P-3359	232	J-1638	J-1951	8	110	3
P-3358	747	J-1951	J-1745	8	110	-7
P-3356	252	J-1127	J-1633	8	110	62

PROPOSED SYSTEM
PIPE TABLE

Label	Length (ft)	Start Node	Stop Node	Diameter (in)	Hazen-Williams C	Flow (gpm)
P-3355	537	J-1633	J-146	8	110	48
P-3353	337	J-767	J-146	12	110	128
P-3352	390	J-1762	J-767	12	110	151
P-3351	972	J-1134	J-1762	12	110	128
P-3350	272	J-1511	J-1134	12	110	134
P-3349	260	71	J-1511	12	110	142
P-3348	307	J-802	J-102	12	110	80
P-3347	1,722	J-101	J-802	12	110	94
P-3346	739	J-1977	J-101	8	110	-46
P-3345	1,271	J-312	J-1977	8	110	-12
P-3344	486	J-656	J-85	18	110	299
P-3343	568	J-143	J-656	18	110	411
P-3342	364	J-1681	J-143	18	110	437
P-3341	438	J-1040	J-1681	18	110	503
P-3340	727	J-128	J-1040	18	110	621
P-3339	493	J-1439	J-118	8	110	-121
P-3338	417	J-907	J-1439	8	110	-123
P-1708	196	J-1032	J-1439	6	110	7
P-3337	460	J-1912	J-907	6	110	-51
P-3336	741	J-741	J-1912	6	110	-15
P-3335	433	J-127	J-741	6	110	50
P-3334	446	J-829	J-127	8	110	-43
P-3333	481	J-1986	J-829	6	110	-9
P-3332	436	J-1230	J-1986	6	110	-10
P-3331	482	J-839	J-1230	8	110	-17
P-3330	450	J-1568	J-839	8	110	-15
P-3329	473	J-145	J-1568	6	110	-7
P-3328	396	J-1682	J-126	12	110	161
P-3327	383	J-1178	J-1682	12	110	221
P-3326	380	J-1300	J-1178	12	110	206
P-3325	326	J-85	J-1300	12	110	222
P-3324	498	J-1306	J-1312	12	110	155
P-3322	1,321	J-15	J-1306	12	110	253
P-3323	938	J-1312	J-87	12	110	124
P-3321	471	J-1619	J-16	8	110	34
P-3320	435	J-87	J-1619	8	110	39
P-3319	157	J-910	J-97	12	110	124
P-3318	301	J-121	J-910	12	110	128
P-3317	209	J-1175	J-97	8	110	84
P-3316	240	J-1795	J-1175	8	110	58
P-3315	373	J-152	J-1795	8	110	107
P-3314	308	J-1305	J-149	8	110	30
P-3313	273	J-95	J-1305	8	110	12
P-3312	513	J-1429	J-95	12	110	74
P-3311	588	J-803	J-1429	12	110	70

PROPOSED SYSTEM
PIPE TABLE

Label	Length (ft)	Start Node	Stop Node	Diameter (in)	Hazen-Williams C	Flow (gpm)
P-3301	334	J-94	J-803	12	110	108
P-3310	533	J-1417	J-1288	8	110	-48
P-3309	1,082	J-92	J-1417	8	110	-43
P-3308	1,358	J-1288	J-273	8	110	-53
P-3307	231	J-1173	J-1779	8	110	65
P-3305	583	J-273	J-1173	8	110	-56
P-3306	242	J-1779	J-1420	8	110	85
P-3304	252	J-1420	J-1552	8	110	76
P-3303	257	J-1552	J-1541	8	110	66
P-3302	543	J-1541	J-94	8	110	54
P-3300	805	J-1915	J-92	12	110	126
P-3299	326	J-94	J-1915	12	110	138
P-3298	354	J-1890	J-94	12	110	196
P-3297	1,027	J-93	J-1890	12	110	197
P-140	346	J-91	J-93	12	110	203
P-3296	163	J-1231	J-197	12	110	-188
P-3292	438	J-1501	J-90	12	110	115
P-3291	175	J-1874	J-1501	12	110	137
P-3290	476	J-1080	J-1874	12	110	142
P-3289	256	J-89	J-1080	12	110	152
P-3287	628	J-1196	J-2072	30	110	5,719
P-3285	484	J-1486	J-1925	18	110	-1,017
P-3283	714	J-122	J-1486	18	110	-954
P-3284	176	J-1925	J-123	18	110	-1,470
P-3282	266	J-721	J-17	8	110	-70
P-3281	260	J-807	J-721	8	110	-109
P-3280	246	J-199	J-807	8	110	-114
P-3279	169	J-824	J-199	8	110	-113
P-3278	268	J-29	J-824	8	110	32
P-3277	778	J-2027	J-29	8	110	31
P-3276	611	J-1309	J-2027	8	110	85
P-3273	247	J-1788	J-1309	8	110	115
P-3275	321	J-1824	J-124	12	110	-151
P-3274	688	J-120	J-1824	12	110	-232
P-3272	167	J-124	J-1788	8	110	177
P-3271	631	J-1593	J-144	8	110	-72
P-3266	491	J-142	J-1593	8	110	36
P-3270	1,279	J-1604	J-1073	8	110	-72
P-3258	291	J-144	J-1604	8	110	-65
P-3269	73	J-1308	J-71	12	110	-296
P-3268	784	J-70	J-1308	12	110	-165
P-3267	587	J-1073	J-1076	8	110	-77
P-3265	205	J-1194	J-71	8	110	62
P-3263	597	J-1942	J-1194	8	110	108
P-3264	562	J-1076	J-159	8	110	-163

PROPOSED SYSTEM
PIPE TABLE

Label	Length (ft)	Start Node	Stop Node	Diameter (in)	Hazen-Williams C	Flow (gpm)
P-3262	544	J-1584	J-1942	8	110	124
P-3261	1,132	J-805	J-1281	12	110	-424
P-3259	519	J-122	138	12	110	-374
P-3260	509	J-1281	J-72	12	110	-498
P-3257	401	J-159	J-1584	8	110	19
P-3256	848	J-1208	J-72	12	110	365
P-3255	283	J-1488	J-1208	12	110	345
P-3254	298	J-160	J-1488	12	110	218
P-3253	280	J-1494	J-305	12	110	-556
P-3252	876	J-72	J-1494	12	110	-379
P-3251	397	J-1311	J-2020	8	110	7
P-3249	889	J-157	J-1311	8	110	140
P-3250	246	J-2020	J-140	8	110	4
P-3248	254	J-1296	J-140	8	110	-87
P-3247	843	J-900	J-1296	8	110	-83
P-3246	477	J-1955	J-900	8	110	-116
P-3245	270	J-66	J-1955	8	110	-181
P-3244	729	J-1266	J-120	8	110	76
P-3243	318	J-142	J-1266	8	110	85
P-3242	292	J-1285	J-66	12	110	-52
P-3241	879	J-1427	J-1285	12	110	55
P-3240	294	J-26	J-1427	12	110	61
P-3239	151	J-2079	J-1354	12	110	-451
P-3235	188	J-20	J-2079	12	110	-437
P-3238	255	J-1354	J-1761	12	110	-383
P-3237	266	J-1761	J-2069	12	110	-364
P-3236	717	J-2069	J-156	12	110	-394
P-3234	257	J-1985	J-157	12	110	-417
P-3233	612	J-156	J-1985	12	110	-254
P-3232	291	J-1243	J-156	8	110	149
P-3231	446	J-164	J-1243	8	110	110
P-3230	303	J-744	J-164	8	110	72
P-3229	449	J-163	J-744	8	110	75
P-3228	169	J-1151	J-163	8	110	127
P-3227	249	J-116	J-1151	8	110	79
P-3226	588	J-1814	J-58	12	110	264
P-3225	445	J-134	J-1814	12	110	225
P-3224	905	J-1327	J-134	12	110	496
P-3223	311	J-2046	J-1327	12	110	511
P-3222	160	J-1751	J-2046	12	110	520
P-3214	224	J-946	J-1751	12	110	63
P-3209	355	J-1509	J-946	12	110	75
P-3205	360	J-138	J-1509	12	110	80
P-3221	286	J-2053	J-1341	12	110	56
P-3219	333	J-115	J-2053	12	110	140

PROPOSED SYSTEM
PIPE TABLE

Label	Length (ft)	Start Node	Stop Node	Diameter (in)	Hazen-Williams C	Flow (gpm)
P-3220	282	J-1341	J-814	12	110	53
P-3218	397	J-814	J-1975	12	110	-8
P-3217	423	J-1975	J-1643	12	110	145
P-3216	168	J-1643	J-830	12	110	100
P-3215	176	J-830	J-1662	12	110	151
P-3213	386	J-1662	J-1569	12	110	142
P-3212	312	J-1734	J-1413	8	110	34
P-3211	1,200	J-115	J-1734	8	110	61
P-3210	292	J-1569	J-851	12	110	176
P-3208	340	J-1413	J-1841	8	110	22
P-3204	166	J-1841	J-1811	8	110	45
P-3201	300	J-1811	J-1019	8	110	29
P-3200	756	J-1019	J-1440	8	110	14
P-3198	326	J-851	J-1553	12	110	126
P-3197	351	J-1553	J-727	12	110	101
P-3194	228	J-727	J-113	12	110	94
P-3196	610	J-1440	J-113	8	110	24
P-3203	504	J-746	J-51	12	110	55
P-3202	504	J-50	J-746	12	110	68
P-3207	640	J-1063	J-52	12	110	25
P-3206	615	J-51	J-1063	12	110	41
P-1955	444	J-1512	J-1953	8	110	56
P-2446	396	J-826	J-1229	8	110	-1
P-1276	1,005	J-935	J-1338	8	110	3
P-1797	206	J-1907	J-721	8	110	22
P-2001	66	J-604	J-1012	12	110	116
P-1337	450	J-868	J-1371	8	110	7
P-1280	437	J-1150	J-165	8	110	-7
P-2151	332	J-1249	J-1140	8	110	58
P-2583	307	J-728	J-1735	8	110	33
P-1371	107	J-882	J-1298	8	110	11
P-2338	223	J-2002	J-1701	12	110	-43
P-1175	381	J-1818	J-1792	6	110	-4
P-1207	52	J-1176	J-1576	8	110	77
P-2263	148	J-825	J-1228	6	110	10
P-1033	335	J-1003	J-1372	8	110	5
P-1712	235	J-1000	J-1503	8	110	5
P-1738	144	J-1487	J-1861	8	110	4
P-2020	364	J-1725	J-808	8	110	-11
P-2490	86	J-1142	J-641	8	110	-4
P-1847	101	J-974	J-1381	8	110	65
P-1840	61	J-1778	J-654	8	110	14
P-1908	223	J-1550	J-818	8	110	37
P-2328	244	J-1315	J-1722	8	110	139
P-2282	139	J-1203	J-813	8	110	-17

PROPOSED SYSTEM
PIPE TABLE

Label	Length (ft)	Start Node	Stop Node	Diameter (in)	Hazen-Williams C	Flow (gpm)
P-2276	253	J-618	J-1636	8	110	-11
P-1757	525	J-2005	J-657	8	110	20
P-2035	296	J-1534	J-1103	8	110	7
P-1721	268	J-738	J-1152	8	110	-26
P-2532	101	J-1998	J-954	6	110	4
P-1698	255	J-2069	J-942	8	110	25
P-2253	56	J-2106	J-998	8	110	-12
P-957	361	J-837	J-1242	8	110	31
P-1457	61	J-931	J-2058	8	110	-8
P-1050	274	J-742	J-1743	8	110	19
P-1196	313	J-1873	J-1194	8	110	-56
P-1984	479	J-1972	J-906	8	110	15
P-1066	325	J-1213	J-1613	8	110	71
P-2477	193	J-844	J-1251	8	110	-21
P-1711	204	J-1180	J-1426	8	110	-24
P-2283	60	J-1478	J-1851	8	110	44
P-1074	82	J-2015	J-1283	8	110	60
P-1299	240	J-962	J-1365	8	110	27
P-2177	180	J-1197	J-1862	8	110	21
P-1574	61	J-1358	J-1271	8	110	27
P-1588	199	J-1237	J-1651	12	110	206
P-2442	120	J-1073	J-1410	8	110	-13
P-1987	50	J-1057	J-1461	8	110	59
P-1565	61	J-1080	J-691	8	110	10
P-2144	302	J-1035	J-746	8	110	-5
P-1693	340	J-1006	J-1414	8	110	20
P-1274	268	J-959	J-653	12	110	-168
P-1103	77	J-720	J-1680	8	110	126
P-2528	50	J-959	J-1359	12	110	14
P-2550	224	J-1231	J-1893	12	110	208
P-2293	226	J-864	J-1582	8	110	21
P-1952	150	J-603	J-1424	8	110	11
P-1999	242	J-1670	J-121	8	110	-13
P-2004	15	J-964	J-1367	12	110	-70
P-1831	150	J-1695	J-2007	8	110	-59
P-1229	317	J-1374	J-1775	8	110	16
P-907	224	J-1059	J-1462	8	110	6
P-1198	390	J-1319	J-1726	8	110	44
P-1904	53	J-1810	J-1442	12	110	-39
P-1575	131	J-1410	J-981	8	110	-25
P-1006	173	J-1753	J-619	8	110	17
P-1243	285	J-1665	J-934	8	110	90
P-1097	321	J-921	J-1323	8	110	1
P-992	392	J-627	J-1644	8	110	58
P-1602	128	J-785	J-1598	12	110	30

PROPOSED SYSTEM
PIPE TABLE

Label	Length (ft)	Start Node	Stop Node	Diameter (in)	Hazen-Williams C	Flow (gpm)
P-2028	219	J-822	J-1739	8	110	10
P-1821	277	J-1280	J-1692	12	110	-95
P-1080	455	J-1608	J-653	12	110	229
P-1807	356	J-1726	J-2033	8	110	41
P-1471	210	J-1283	J-1695	8	110	50
P-1514	200	J-873	J-50	8	110	-8
P-1195	488	J-1168	J-1572	8	110	-61
P-1837	313	J-1272	J-644	8	110	25
P-1926	216	J-1076	J-1478	8	110	47
P-2627	82	J-1875	J-685	8	110	8
P-2476	340	J-835	J-1060	8	110	21
P-1740	247	J-1446	J-1573	8	110	-18
P-1200	153	J-1019	J-1353	6	110	9
P-2161	314	J-1172	J-1575	8	110	-4
P-1658	74	J-1365	J-652	8	110	4
P-1649	365	J-1678	J-2064	8	110	8
P-1347	369	J-1462	J-2074	8	110	3
P-2015	264	J-1365	J-958	8	110	19
P-1100	277	J-1479	J-869	8	110	42
P-1462	171	J-864	J-1280	12	110	-84
P-1820	279	J-1297	J-1703	12	110	23
P-2414	117	J-1245	J-761	8	110	16
P-1924	51	J-720	J-1917	8	110	148
P-1394	385	J-1289	J-1778	8	110	18
P-1397	202	J-1808	J-2106	8	110	-8
P-2626	348	J-1288	J-659	8	110	0
P-2531	276	J-1862	J-1319	8	110	47
P-1536	90	J-1722	J-2003	8	110	4
P-1099	67	J-1988	J-833	8	110	8
P-1392	345	J-846	J-122	12	110	-239
P-2530	199	J-1573	J-819	6	110	5
P-2334	72	J-927	J-1330	8	110	-58
P-1933	159	J-1453	J-664	8	110	10
P-1992	374	J-707	J-1106	8	110	101
P-1858	268	J-1854	J-664	8	110	5
P-2599	222	J-1938	J-1360	8	110	-35
P-1110	58	J-1147	J-1559	8	110	55
P-2262	362	J-818	J-1991	8	110	4
P-2014	301	J-1909	J-725	8	110	49
P-1045	52	J-1819	J-1016	12	110	-41
P-2596	488	J-1053	J-1455	8	110	-42
P-949	523	J-1321	J-1075	8	110	-10
P-1282	427	J-681	J-1081	8	110	-118
P-1528	22	J-1813	J-1910	8	110	31
P-1568	84	J-1515	J-801	8	110	-28

PROPOSED SYSTEM
PIPE TABLE

Label	Length (ft)	Start Node	Stop Node	Diameter (in)	Hazen-Williams C	Flow (gpm)
P-1126	411	J-654	J-1663	8	110	2
P-1447	260	J-779	J-789	8	110	4
P-2234	42	J-1363	J-1055	8	110	-55
P-2426	192	J-2087	J-968	8	110	-76
P-1515	454	J-1009	J-1512	8	110	58
P-936	411	J-611	J-2108	8	110	25
P-2462	466	J-1012	J-887	8	110	-7
P-1128	394	J-1505	J-1948	8	110	32
P-2622	78	J-1926	J-962	8	110	28
P-2498	308	J-1108	J-1480	8	110	26
P-2287	222	J-1394	J-679	8	110	7
P-2018	96	J-1100	J-1513	8	110	112
P-1979	74	J-2051	J-927	8	110	-50
P-1795	434	J-718	J-1122	12	110	-36
P-1545	67	J-1934	J-1756	8	110	17
P-1563	53	J-964	J-1282	8	110	23
P-1189	525	J-2014	J-869	12	110	44
P-2624	181	J-1306	J-1711	8	110	-5
P-1266	339	J-1118	J-736	8	110	-54
P-2311	251	J-1915	J-1047	8	110	6
P-1505	374	J-1833	J-1905	12	110	-207
P-972	63	J-834	J-1240	8	110	-5
P-1838	60	J-816	J-1146	8	110	-22
P-1701	344	J-1191	J-1712	8	110	-22
P-1787	473	J-1675	J-1037	8	110	117
P-2335	392	J-991	J-611	8	110	28
P-1906	221	J-1710	J-975	8	110	12
P-2288	183	J-910	J-1786	8	110	2
P-2126	309	J-862	J-650	8	110	0
P-2612	64	J-818	J-837	8	110	32
P-1355	285	J-2038	J-1000	8	110	7
P-1082	239	J-2000	J-1070	8	110	11
P-1302	166	J-1851	J-683	8	110	9
P-915	51	J-1334	J-1457	6	110	10
P-1156	61	J-1896	J-708	8	110	2
P-1682	254	J-703	J-1327	8	110	60
P-1666	303	J-1452	J-1826	8	110	29
P-1925	254	J-801	J-1203	8	110	-28
P-1812	335	J-1148	J-1560	8	110	79
P-1517	191	J-1948	J-1002	8	110	20
P-1552	282	J-1068	J-1471	8	110	67
P-1551	139	J-2020	J-2102	6	110	1
P-1314	108	J-781	J-1279	8	110	20
P-1460	60	J-1110	J-624	8	110	12
P-946	169	J-1360	J-1834	8	110	-75

PROPOSED SYSTEM
PIPE TABLE

Label	Length (ft)	Start Node	Stop Node	Diameter (in)	Hazen-Williams C	Flow (gpm)
P-2650	299	J-1591	J-1932	8	110	37
P-1449	148	J-1708	J-758	8	110	-497
P-2579	200	J-1373	J-767	8	110	-1
P-1023	514	J-2044	J-1009	8	110	60
P-2323	285	J-1328	J-656	8	110	-77
P-1796	376	J-730	J-1234	8	110	28
P-2582	479	J-1300	J-1340	8	110	-36
P-1146	394	J-1482	J-1855	8	110	-114
P-1467	41	J-1975	J-1375	8	110	8
P-1679	61	J-1092	J-1500	8	110	6
P-1221	64	J-1847	J-657	8	110	6
P-1087	199	J-699	J-1900	12	110	98
P-1234	194	J-603	J-1011	8	110	-57
P-1580	54	J-1221	J-1966	8	110	38
P-2189	409	J-2098	J-1812	8	110	39
P-1626	488	J-1898	J-712	8	110	18
P-1466	104	J-1613	J-1955	8	110	69
P-1063	42	J-1908	J-724	8	110	-66
P-1485	61	J-1229	J-919	8	110	-6
P-1283	308	J-1111	J-1239	8	110	12
P-1561	361	J-1095	J-1502	8	110	-47
P-2536	396	J-958	J-1182	8	110	-40
P-1359	451	J-1763	J-289	8	110	-29
P-2545	499	J-1221	J-1625	8	110	4
P-1805	129	J-2001	J-2099	8	110	169
P-1584	254	J-657	J-1060	8	110	24
P-1440	61	J-1836	J-757	8	110	-18
P-2495	274	J-1246	J-1745	8	110	-22
P-1803	351	J-632	J-1044	6	110	-16
P-2075	240	J-675	J-809	8	110	76
P-1344	247	J-1575	J-1191	8	110	-14
P-2357	362	J-1905	J-1999	12	110	-216
P-2315	309	J-2048	J-870	12	110	0
P-2510	459	J-1561	J-1658	8	110	17
P-2321	270	J-1816	J-605	8	110	-43
P-1673	226	J-1969	J-901	8	110	38
P-2302	422	J-1326	J-1730	8	110	12
P-1910	19	J-1983	J-825	8	110	32
P-1814	58	J-1312	J-1720	8	110	-1
P-2112	271	J-1219	J-1012	8	110	-28
P-2512	63	J-2068	J-945	8	110	35
P-2421	31	J-1046	J-1450	12	110	-164
P-1310	93	J-627	J-1634	8	110	56
P-1348	149	J-621	J-1121	8	110	4
P-1612	255	J-1301	J-1708	8	110	-175

PROPOSED SYSTEM
PIPE TABLE

Label	Length (ft)	Start Node	Stop Node	Diameter (in)	Hazen-Williams C	Flow (gpm)
P-2540	46	J-1709	J-784	8	110	-70
P-1256	57	J-1668	J-938	8	110	6
P-2609	480	J-1355	J-730	8	110	34
P-2340	73	J-1113	J-907	8	110	5
P-1483	53	J-1900	J-714	12	110	97
P-2104	162	J-1737	J-921	8	110	15
P-2659	214	J-666	J-1544	8	110	-92
P-2246	278	J-1825	J-2016	8	110	-32
P-2010	54	J-1068	J-1053	8	110	-38
P-1264	412	J-1340	J-1742	8	110	-35
P-1320	192	J-1394	J-1092	8	110	-42
P-2227	140	J-1286	J-1440	8	110	20
P-1192	208	J-803	J-1678	8	110	12
P-2639	105	J-1534	J-1892	8	110	69
P-1395	58	J-1566	J-2005	8	110	23
P-1286	34	J-797	J-1198	8	110	-1
P-2347	225	J-629	J-57	8	110	-64
P-2107	68	J-1673	J-846	8	110	-10
P-1153	307	J-1437	J-2062	8	110	5
P-969	266	J-1368	J-1772	8	110	3
P-2469	54	J-1595	J-1937	8	110	127
P-1809	299	J-777	J-1172	8	110	5
P-2637	343	J-1764	J-948	8	110	3
P-2190	63	J-2092	J-1098	8	110	-48
P-1501	432	J-1459	J-1072	8	110	-100
P-1965	43	J-1340	J-1328	8	110	-74
P-1288	369	J-1023	J-1530	8	110	9
P-1010	391	J-301	J-1830	8	110	20
P-1008	450	J-821	J-1227	8	110	18
P-1735	138	J-728	J-1233	8	110	2
P-2525	208	J-1280	J-2014	12	110	48
P-2341	48	J-1886	J-693	12	110	-52
P-1071	43	J-1235	J-1843	8	110	37
P-1667	445	J-1634	J-634	8	110	52
P-912	346	J-1661	J-2052	8	110	2
P-1448	143	J-56	J-1048	8	110	-1
P-1057	353	J-2108	J-1110	8	110	13
P-2101	378	J-1142	J-1647	8	110	7
P-1007	333	J-1105	J-2095	8	110	8
P-1340	138	J-1604	J-1950	8	110	4
P-1892	122	J-91	J-1287	8	110	149
P-2205	493	J-1887	J-798	8	110	20
P-1493	283	J-869	J-1854	8	110	23
P-1692	233	J-1912	J-1577	6	110	27
P-1372	24	J-693	J-1357	8	110	-28

PROPOSED SYSTEM
PIPE TABLE

Label	Length (ft)	Start Node	Stop Node	Diameter (in)	Hazen-Williams C	Flow (gpm)
P-2459	341	J-850	J-1264	8	110	10
P-2587	424	J-2031	J-988	8	110	12
P-1539	81	J-991	J-1495	8	110	-24
P-1981	174	J-637	J-986	8	110	77
P-2169	33	J-1540	J-1033	8	110	48
P-2274	372	J-320	J-1875	12	110	-159
P-1651	364	J-1255	J-1674	8	110	2
P-1969	52	J-777	J-1186	8	110	-144
P-2606	285	J-1481	J-1853	8	110	66
P-1258	209	J-886	J-1301	8	110	-69
P-1322	461	J-1892	J-703	8	110	66
P-2074	38	J-1152	J-1561	8	110	-29
P-1996	550	J-1617	J-2023	8	110	-29
P-2157	144	J-2033	J-900	8	110	37
P-932	305	J-1349	J-1769	8	110	-4
P-1273	434	J-1099	J-1234	8	110	-1
P-1154	268	J-1688	J-896	8	110	3
P-1354	51	J-1014	J-1426	8	110	72
P-991	56	J-934	J-1039	8	110	35
P-2364	159	J-838	J-1243	8	110	46
P-1332	300	J-1309	J-1006	8	110	25
P-1115	240	J-1937	J-771	8	110	105
P-2508	319	J-983	J-1398	8	110	-90
P-2085	177	J-1704	J-2015	8	110	101
P-1581	215	J-1758	J-2066	8	110	15
P-2631	239	J-1435	J-1817	8	110	35
P-2638	120	J-679	J-1079	8	110	4
P-1093	463	J-1937	J-855	8	110	10
P-930	395	J-1879	J-779	8	110	-7
P-1217	305	J-951	J-1758	8	110	17
P-2617	255	J-1427	J-1809	6	110	3
P-1894	344	J-1705	J-1825	8	110	-23
P-2544	442	J-2002	J-1051	8	110	12
P-2524	256	J-694	J-999	8	110	60
P-1947	469	J-2079	J-955	8	110	10
P-1705	49	J-2074	J-1835	8	110	9
P-2354	252	J-1012	J-1425	12	110	93
P-1477	143	J-1687	J-2002	12	110	-28
P-1905	151	J-761	J-853	8	110	43
P-1432	60	J-1825	J-625	8	110	3
P-2259	59	J-853	J-1355	8	110	37
P-2362	181	J-1182	J-1581	8	110	29
P-1140	719	J-1428	J-1962	6	110	0
P-1710	63	J-1843	J-742	8	110	37
P-2378	385	J-1486	J-2047	8	110	35

PROPOSED SYSTEM
PIPE TABLE

Label	Length (ft)	Start Node	Stop Node	Diameter (in)	Hazen-Williams C	Flow (gpm)
P-1423	136	J-619	J-1378	8	110	15
P-1279	378	J-1404	J-1867	8	110	-209
P-2173	277	J-1703	J-1280	12	110	38
P-1241	58	J-1946	J-868	8	110	-5
P-1476	407	J-1546	J-816	8	110	-19
P-1886	95	J-1628	J-892	8	110	76
P-1391	253	J-2066	J-1535	8	110	-27
P-2571	51	J-2009	J-1684	6	110	83
P-2326	160	J-1186	J-1586	8	110	-146
P-1810	59	J-1743	J-608	8	110	44
P-2211	234	J-722	J-1131	8	110	30
P-2616	396	J-1569	J-945	8	110	-42
P-1897	468	J-1495	J-1938	8	110	-28
P-1720	59	J-896	J-1307	8	110	126
P-2040	447	J-765	J-1176	8	110	84
P-1319	264	J-948	J-1686	8	110	0
P-2135	478	J-1884	J-690	8	110	-3
P-2319	449	J-1779	J-655	8	110	-25
P-2163	359	J-1939	J-858	8	110	38
P-1893	136	J-1963	J-137	12	110	-485
P-1970	73	J-1708	J-1315	8	110	142
P-2431	104	J-1928	J-754	8	110	2
P-2589	24	J-1135	J-1551	6	110	-27
P-2270	190	J-2081	J-1926	8	110	5
P-1499	72	J-824	J-1226	8	110	143
P-2561	271	J-1065	J-1469	8	110	8
P-1249	335	J-1844	J-1376	8	110	103
P-1544	12	J-1428	J-1810	12	110	-51
P-1065	60	J-2063	J-1969	8	110	42
P-2088	358	J-658	J-2056	8	110	16
P-2217	266	J-1476	J-1850	8	110	-137
P-2033	273	J-1092	J-1873	8	110	-50
P-2322	227	J-1136	J-1642	8	110	6
P-2009	57	J-771	J-1182	8	110	101
P-1278	252	J-1123	J-1895	8	110	-28
P-2133	386	J-815	J-1220	8	110	22
P-2433	249	J-866	J-2015	8	110	-36
P-1166	431	J-1016	J-1428	12	110	-46
P-2065	303	J-1744	J-1750	8	110	-101
P-1715	468	J-1497	J-1940	8	110	-117
P-1167	315	J-1350	J-1934	8	110	18
P-1756	44	J-1535	J-1894	8	110	-29
P-1398	192	J-2077	J-1078	8	110	-67
P-1755	53	J-2076	J-952	8	110	-12
P-944	27	J-1886	J-956	8	110	3

PROPOSED SYSTEM
PIPE TABLE

Label	Length (ft)	Start Node	Stop Node	Diameter (in)	Hazen-Williams C	Flow (gpm)
P-1570	220	J-1811	J-1760	6	110	12
P-2522	390	J-2024	J-1681	8	110	-16
P-1459	57	J-1345	J-622	8	110	-67
P-1263	271	J-767	J-749	8	110	15
P-996	422	J-747	J-1654	8	110	37
P-1991	466	J-1829	J-629	8	110	-59
P-2488	241	J-1696	J-54	12	110	-7
P-1268	121	J-1396	J-1493	8	110	5
P-1859	55	J-706	J-722	8	110	32
P-1313	284	J-1219	J-1623	8	110	3
P-1792	311	J-625	J-1035	8	110	0
P-1914	108	J-1580	J-1923	8	110	1
P-1985	389	J-1521	J-1886	12	110	-47
P-1187	510	J-90	J-806	8	110	-16
P-2061	384	J-980	J-1930	8	110	13
P-1413	474	J-1644	J-2040	8	110	46
P-1975	182	J-2074	J-1063	8	110	-15
P-1039	415	J-1276	J-1688	8	110	9
P-2155	437	J-2099	J-983	8	110	62
P-2110	54	J-1266	J-2086	8	110	7
P-1898	397	J-1839	J-736	8	110	47
P-2231	559	J-871	J-1762	8	110	38
P-2607	197	J-1033	J-2063	8	110	44
P-1225	74	J-1833	J-1237	12	110	207
P-2350	125	J-2023	J-1118	8	110	-33
P-1136	673	J-1884	J-1091	8	110	-124
P-1172	55	J-1658	J-1734	8	110	12
P-2640	471	J-798	J-1299	8	110	14
P-2422	179	J-1712	J-978	8	110	98
P-1473	464	J-2092	J-697	8	110	55
P-2069	472	J-1682	J-1346	8	110	39
P-1233	312	J-796	J-1630	8	110	107
P-1079	272	J-1981	J-822	12	110	193
P-2060	374	J-126	J-1819	12	110	-30
P-2443	32	J-1918	J-1471	8	110	-52
P-965	493	J-1721	J-1333	8	110	17
P-2081	328	J-1284	J-646	8	110	-1
P-2559	486	J-1426	J-1806	8	110	46
P-1472	91	J-1412	J-1799	8	110	95
P-2180	493	J-662	J-1061	8	110	-39
P-1934	199	J-1966	J-808	8	110	37
P-2409	278	J-639	J-950	8	110	1
P-2570	70	J-995	J-1844	8	110	106
P-2573	45	J-1754	J-1059	8	110	18
P-954	61	J-1106	J-1885	8	110	97

PROPOSED SYSTEM
PIPE TABLE

Label	Length (ft)	Start Node	Stop Node	Diameter (in)	Hazen-Williams C	Flow (gpm)
P-2568	26	J-1850	J-660	8	110	9
P-2588	48	J-718	J-1207	8	110	-9
P-2537	469	J-1418	J-794	8	110	-44
P-1800	540	J-757	J-1257	8	110	-20
P-2237	336	J-1492	J-2035	8	110	124
P-988	53	J-1077	J-1147	8	110	56
P-2000	278	J-1198	J-1603	8	110	74
P-2344	420	J-919	J-1321	8	110	-8
P-2193	259	J-1131	J-1221	8	110	44
P-1691	57	J-1902	J-765	8	110	88
P-2465	61	J-1669	J-1311	8	110	0
P-1827	347	J-1329	J-944	8	110	6
P-2197	291	J-1279	J-149	8	110	13
P-924	525	J-1763	J-702	8	110	-16
P-1145	420	J-53	J-1696	12	110	2
P-2489	298	J-863	J-1482	8	110	-105
P-2353	226	J-1603	J-1944	8	110	71
P-2299	216	J-1463	J-1591	8	110	41
P-1098	464	J-1803	J-2101	8	110	19
P-1702	231	J-1494	J-1387	8	110	268
P-1199	377	J-1104	J-1515	8	110	-24
P-1781	54	J-1517	J-1884	8	110	-123
P-2268	450	J-1580	J-1984	8	110	-42
P-975	122	J-1302	J-1707	8	110	30
P-2160	414	J-623	J-1354	8	110	72
P-1959	1,222	J-763	J-1850	8	110	151
P-908	112	J-152	J-1038	8	110	14
P-1595	399	J-1011	J-134	8	110	-61
P-2141	28	J-1081	J-863	8	110	-147
P-2048	284	J-868	J-737	8	110	-15
P-2394	353	J-1802	J-807	8	110	10
P-1617	291	J-1769	J-2074	8	110	-6
P-2016	169	J-663	J-1485	8	110	10
P-2546	463	J-942	J-1067	8	110	15
P-1532	136	J-1218	J-1963	12	110	-483
P-2492	345	J-812	J-1218	12	110	-470
P-1441	313	J-2041	J-748	8	110	79
P-2019	234	J-1167	J-734	8	110	-37
P-933	157	J-1069	J-686	8	110	8
P-2533	472	J-1344	J-926	8	110	127
P-903	120	J-1899	J-138	12	110	-336
P-2239	458	J-892	J-2031	8	110	71
P-2520	224	J-1906	J-2000	8	110	54
P-1606	388	J-1813	J-1340	8	110	-70
P-2494	93	J-51	J-1437	8	110	9

PROPOSED SYSTEM
PIPE TABLE

Label	Length (ft)	Start Node	Stop Node	Diameter (in)	Hazen-Williams C	Flow (gpm)
P-1253	376	J-1334	J-1135	6	110	-40
P-1980	207	J-1238	J-1124	8	110	28
P-2320	698	J-1744	J-1017	8	110	-48
P-1088	99	J-1767	J-2093	8	110	110
P-2120	129	J-1308	J-1595	8	110	128
P-1899	327	J-1240	J-1654	8	110	20
P-931	271	J-830	J-1683	8	110	-55
P-2597	284	J-1123	J-1538	6	110	2
P-1090	346	J-1229	J-1641	8	110	2
P-963	209	J-1944	J-784	8	110	66
P-2037	379	J-689	J-1863	8	110	8
P-1928	258	J-1271	J-1764	8	110	13
P-2109	303	J-1894	J-706	8	110	-17
P-1663	55	J-1479	J-1916	8	110	37
P-1213	157	J-1051	J-1065	8	110	9
P-2360	273	J-1989	J-834	8	110	23
P-1262	254	J-1362	J-1769	8	110	2
P-2401	28	J-737	J-1840	8	110	-18
P-2361	32	J-887	J-1302	8	110	32
P-1860	59	J-1970	J-1890	8	110	1
P-2240	400	J-145	J-1346	8	110	-23
P-1966	332	J-829	J-1891	6	110	-3
P-2191	832	J-1348	J-1752	12	110	-470
P-2542	284	J-1098	J-336	8	110	-49
P-1846	317	J-714	J-1116	12	110	92
P-1046	277	J-1480	J-1350	8	110	21
P-2080	358	J-1386	J-903	8	110	1
P-2455	199	J-846	J-1988	8	110	10
P-1884	458	J-1627	J-1492	8	110	-130
P-2629	234	J-1167	J-1571	8	110	18
P-1542	144	J-1544	J-1972	8	110	20
P-2535	310	J-662	J-1657	8	110	17
P-1383	118	J-1942	J-783	8	110	6
P-2280	317	J-1254	J-1128	8	110	122
P-1688	150	J-1645	J-612	8	110	3
P-2008	289	J-1209	J-887	8	110	45
P-1129	18	J-1251	J-1668	8	110	-28
P-2219	339	J-874	J-1376	8	110	4
P-1636	354	J-1895	J-707	8	110	103
P-1076	41	J-1116	J-1104	8	110	-22
P-2558	227	J-1814	J-603	8	110	-43
P-1377	349	J-1203	J-699	8	110	-14
P-1504	438	J-995	J-1499	8	110	6
P-1772	292	J-1441	J-716	8	110	-22
P-2577	750	J-2016	J-1697	8	110	-32

PROPOSED SYSTEM
PIPE TABLE

Label	Length (ft)	Start Node	Stop Node	Diameter (in)	Hazen-Williams C	Flow (gpm)
P-2419	57	J-1346	J-1749	8	110	11
P-1750	419	J-784	J-1592	8	110	59
P-1977	184	J-1871	J-1418	8	110	-41
P-1739	231	J-699	J-1314	8	110	-21
P-1559	99	J-2085	J-967	8	110	2
P-1271	30	J-1551	J-1898	6	110	23
P-1945	243	J-1651	J-1981	12	110	198
P-1731	297	J-1513	J-1704	8	110	112
P-1546	54	J-1297	J-1710	8	110	14
P-1174	285	J-945	J-1068	8	110	33
P-2243	66	J-668	J-983	8	110	-148
P-2585	506	J-2035	J-995	8	110	117
P-1540	216	J-637	J-1839	8	110	54
P-925	192	J-289	J-1465	8	110	20
P-1494	465	J-1904	J-1894	8	110	13
P-2290	402	J-1262	J-1864	8	110	6
P-1768	62	J-803	J-1887	8	110	23
P-2202	517	J-1700	J-2011	8	110	-63
P-1365	338	J-1630	J-1968	8	110	-28
P-2519	163	J-858	J-1621	8	110	25
P-1212	296	J-2060	J-1925	12	110	-452
P-983	251	J-1175	J-667	8	110	-27
P-1421	235	J-605	J-1517	8	110	-120
P-1862	153	J-1489	J-1862	8	110	135
P-2272	509	J-1369	J-1773	8	110	-59
P-2294	57	J-808	J-1212	8	110	25
P-2331	62	J-950	J-1349	8	110	-1
P-1896	83	J-2025	J-848	8	110	4
P-1409	136	J-172	J-1270	8	110	4
P-1520	403	J-1158	J-1664	8	110	-34
P-1022	244	J-1362	J-1059	8	110	-10
P-2309	371	J-1424	J-698	8	110	8
P-2605	296	J-998	J-1040	8	110	-23
P-1725	562	J-1683	J-1998	8	110	-63
P-2170	276	J-1421	J-694	8	110	18
P-2371	377	J-1285	J-1698	8	110	104
P-2562	56	J-1131	J-1546	8	110	-16
P-1605	49	J-2031	J-733	8	110	23
P-1119	314	J-1017	J-1522	8	110	7
P-953	240	J-1553	J-1042	8	110	-5
P-1031	52	J-1796	J-2095	8	110	-17
P-1722	129	J-1968	J-675	8	110	-30
P-2370	240	J-1139	J-1134	8	110	-1
P-2518	57	J-1108	J-1614	8	110	4
P-1642	536	J-1411	J-1711	8	110	0

PROPOSED SYSTEM
PIPE TABLE

Label	Length (ft)	Start Node	Stop Node	Diameter (in)	Hazen-Williams C	Flow (gpm)
P-2400	443	J-1409	J-1796	8	110	-12
P-1644	190	J-1198	J-1945	8	110	-76
P-2547	126	J-951	J-1351	8	110	3
P-1164	84	J-820	J-1978	8	110	37
P-2108	225	J-1046	J-1077	8	110	163
P-2448	253	J-1589	J-1937	8	110	-8
P-2427	521	J-1741	J-2050	8	110	32
P-1388	72	J-1333	J-1737	8	110	16
P-1919	401	J-1874	J-925	8	110	5
P-2424	231	J-1561	J-1908	8	110	-49
P-2507	47	J-1703	J-1694	8	110	3
P-2178	345	J-2087	J-2078	8	110	0
P-2453	125	J-921	J-1978	8	110	13
P-2563	355	J-1248	J-1665	8	110	73
P-935	67	J-1330	J-941	8	110	3
P-1363	292	J-2025	J-896	8	110	126
P-1191	108	J-658	J-1162	8	110	-45
P-964	57	J-1425	J-699	12	110	91
P-2337	526	J-986	J-1491	8	110	72
P-2056	85	J-113	J-1316	6	110	30
P-2115	514	J-1420	J-1881	8	110	5
P-1921	47	J-1227	J-1636	8	110	17
P-1623	400	J-1568	J-931	8	110	-11
P-1439	407	J-2095	J-2104	8	110	-14
P-2002	141	J-966	J-1368	8	110	5
P-2452	341	J-1205	J-882	8	110	49
P-2436	401	J-1450	J-1608	12	110	242
P-2062	153	J-742	J-1245	8	110	17
P-1841	455	J-934	J-1337	8	110	48
P-1205	107	J-1797	J-2096	8	110	5
P-1678	66	J-1686	J-2081	8	110	7
P-2613	123	J-825	J-1637	8	110	21
P-2212	57	J-842	J-1248	8	110	114
P-2039	204	J-1638	J-1510	8	110	4
P-1418	306	J-1129	J-1548	8	110	29
P-1648	112	J-1162	J-1667	8	110	-48
P-1414	329	J-1148	J-1160	8	110	54
P-1558	313	J-1681	J-927	6	110	43
P-1287	438	J-975	J-2084	8	110	3
P-2012	469	J-1567	J-838	8	110	51
P-1782	158	J-1378	J-1119	8	110	0
P-2632	75	J-1128	J-627	8	110	116
P-2281	553	J-1917	J-735	8	110	144
P-2647	220	J-1343	J-618	8	110	44
P-1915	155	J-1945	J-867	8	110	13

PROPOSED SYSTEM
PIPE TABLE

Label	Length (ft)	Start Node	Stop Node	Diameter (in)	Hazen-Williams C	Flow (gpm)
P-2450	415	J-1474	J-1989	8	110	33
P-2497	264	J-980	J-2109	8	110	-21
P-2127	418	J-716	J-1117	8	110	-26
P-979	61	J-725	J-1550	8	110	38
P-1469	270	J-1475	J-1848	8	110	-20
P-1368	216	J-1935	J-854	8	110	2
P-1252	282	J-1836	J-2031	8	110	-33
P-1653	455	J-648	J-814	8	110	-51
P-1478	270	J-1070	J-1474	8	110	8
P-2052	123	J-1575	J-860	8	110	6
P-1390	214	J-966	J-2076	8	110	-10
P-1201	310	J-926	J-1339	8	110	116
P-910	1,177	J-870	J-1947	12	110	0
P-1367	149	J-1069	J-1086	8	110	5
P-2064	258	J-779	J-93	8	110	34
P-1096	57	J-1003	J-1652	12	110	-551
P-1186	225	J-1785	J-2085	8	110	-47
P-2255	59	J-1178	J-1432	8	110	-28
P-2491	188	J-1155	J-1661	8	110	3
P-1178	362	J-174	J-885	8	110	-204
P-922	319	J-656	J-1619	8	110	26
P-1583	192	J-1824	J-1593	8	110	-85
P-1834	318	J-1799	J-2098	8	110	41
P-1629	281	J-1234	J-1607	8	110	3
P-2260	57	J-975	J-1384	8	110	7
P-2523	326	J-1383	J-1785	8	110	-100
P-1918	397	J-1502	J-1799	8	110	-52
P-1936	282	J-2066	J-940	8	110	39
P-2076	271	J-1998	J-2087	8	110	-71
P-1654	430	J-26	J-717	8	110	-23
P-1165	35	J-614	J-1822	6	110	45
P-1061	270	J-2012	J-864	12	110	-61
P-1081	200	J-1272	J-1687	12	110	-26
P-1257	201	J-1584	J-1208	8	110	-113
P-1226	78	J-2101	J-985	8	110	15
P-2368	402	J-734	J-1077	8	110	-40
P-1647	279	J-2082	J-964	12	110	-52
P-1741	160	J-692	J-817	6	110	2
P-1554	185	J-164	J-1580	8	110	-40
P-1454	63	J-735	J-1148	8	110	136
P-2232	646	J-1146	J-502	12	110	184
P-1230	169	J-863	J-1281	8	110	-118
P-1964	345	J-733	J-1136	8	110	18
P-1378	37	J-1042	J-1446	8	110	-8
P-1135	531	J-2030	J-987	8	110	-78

PROPOSED SYSTEM
PIPE TABLE

Label	Length (ft)	Start Node	Stop Node	Diameter (in)	Hazen-Williams C	Flow (gpm)
P-937	103	J-1491	J-1935	8	110	69
P-1269	327	J-1207	J-1568	8	110	-12
P-1351	66	J-2022	J-980	8	110	-2
P-1611	92	J-1208	J-777	8	110	-137
P-1655	559	J-157	J-1567	8	110	59
P-1247	371	J-660	J-1062	8	110	0
P-1634	162	J-1338	J-1740	8	110	3
P-1527	374	J-1810	J-145	8	110	-12
P-1998	121	J-1078	J-1066	8	110	-135
P-2416	55	J-1750	J-1376	8	110	-104
P-1123	340	J-1364	J-1836	8	110	-47
P-1939	53	J-1060	J-1463	8	110	43
P-973	31	J-1711	J-1808	6	110	-5
P-1030	444	J-655	J-1158	8	110	-29
P-1329	422	J-1932	J-1240	8	110	32
P-1806	280	J-1908	J-836	6	110	15
P-2129	391	J-1566	J-835	8	110	25
P-2024	53	J-1922	J-1474	8	110	28
P-1716	363	J-907	J-1445	8	110	72
P-1357	215	J-1127	J-1497	8	110	-106
P-2057	351	J-1835	J-639	8	110	5
P-1453	497	J-1114	J-1621	8	110	-8
P-1620	444	J-1742	J-2051	8	110	-45
P-2630	204	J-1636	J-914	8	110	5
P-2278	268	J-654	J-1157	8	110	8
P-1850	292	J-2001	J-1700	8	110	-54
P-1641	152	J-1646	J-1617	8	110	-22
P-2451	281	J-893	J-1003	12	110	-542
P-921	42	J-1136	J-2038	8	110	10
P-2114	262	J-901	J-1403	8	110	13
P-1560	404	J-1670	J-2057	8	110	7
P-1464	182	J-724	J-1132	8	110	-68
P-1197	98	J-738	J-1990	6	110	4
P-1963	445	J-1579	J-1816	8	110	-35
P-2249	56	J-1938	J-857	8	110	6
P-1534	46	J-2062	J-1705	8	110	-18
P-2440	70	J-672	J-1391	8	110	24
P-2438	643	J-1305	J-658	8	110	-25
P-2273	389	J-1501	J-1325	8	110	92
P-2646	434	J-1212	J-821	8	110	22
P-1227	388	J-1552	J-920	8	110	6
P-1557	342	J-319	J-1945	8	110	81
P-2480	56	J-1220	J-721	8	110	19
P-1428	430	J-946	J-1202	8	110	7
P-2645	377	J-1582	J-1854	8	110	17

PROPOSED SYSTEM
PIPE TABLE

Label	Length (ft)	Start Node	Stop Node	Diameter (in)	Hazen-Williams C	Flow (gpm)
P-2271	331	J-1040	J-622	8	110	85
P-1882	241	J-1363	J-649	8	110	4
P-2369	57	J-628	J-1665	8	110	22
P-2175	291	J-1574	J-739	8	110	51
P-1942	393	J-2027	J-1326	8	110	42
P-2224	44	J-936	J-1754	8	110	-2
P-1056	314	J-1330	J-1345	8	110	-63
P-1912	465	J-1471	J-1841	8	110	29
P-1628	80	J-1107	J-1521	12	110	-42
P-2389	146	J-1953	J-1017	8	110	55
P-1327	323	J-618	J-1029	8	110	53
P-1526	482	J-1120	J-1628	8	110	60
P-1215	606	J-667	J-1795	8	110	-30
P-1744	118	J-1657	J-1984	8	110	46
P-1956	544	J-1504	J-1857	8	110	-91
P-1107	363	J-1055	J-1459	8	110	-68
P-2245	301	J-1413	J-935	8	110	7
P-2279	309	J-1248	J-1435	8	110	39
P-1300	298	J-794	J-1294	8	110	-49
P-2258	416	J-1442	J-718	12	110	-43
P-1830	236	J-1281	J-1693	8	110	-51
P-1920	201	J-1692	J-755	8	110	-15
P-1728	290	J-1935	J-1356	8	110	66
P-2194	301	J-1337	J-951	8	110	24
P-2152	46	J-1044	J-1445	6	110	-20
P-1073	147	J-1928	J-1168	8	110	-56
P-2392	55	J-1112	J-1618	8	110	73
P-1696	74	J-994	J-1217	8	110	22
P-1209	250	J-1695	J-977	8	110	65
P-2405	225	J-1586	J-1276	8	110	15
P-2167	346	J-31	J-1383	8	110	-96
P-1474	225	J-822	J-947	12	110	177
P-2339	417	J-839	J-1334	6	110	-12
P-1054	392	J-1986	J-693	8	110	25
P-1804	126	J-1650	J-1236	8	110	48
P-1411	188	J-1039	J-1441	8	110	33
P-1537	240	J-1871	J-916	8	110	10
P-2342	211	J-1607	J-1914	8	110	1
P-2051	87	J-1138	J-727	6	110	-3
P-926	309	J-1586	J-1929	8	110	-166
P-1931	458	J-713	J-1115	8	110	90
P-2358	263	J-1367	J-959	12	110	-71
P-1272	269	J-1896	J-1107	12	110	-38
P-1929	185	J-981	J-1394	8	110	-29
P-902	52	J-1451	J-1362	8	110	-6

PROPOSED SYSTEM
PIPE TABLE

Label	Length (ft)	Start Node	Stop Node	Diameter (in)	Hazen-Williams C	Flow (gpm)
P-1645	282	J-2084	J-966	8	110	-2
P-1055	381	J-1749	J-931	8	110	6
P-1162	212	J-666	J-1870	8	110	48
P-1880	214	J-1002	J-871	8	110	50
P-2348	233	J-1106	J-1518	8	110	2
P-2147	257	J-853	J-1736	8	110	5
P-1306	252	J-1571	J-1479	8	110	15
P-1522	60	J-987	J-1627	8	110	-84
P-2620	21	J-1024	J-1165	8	110	-1
P-2092	323	J-801	J-714	8	110	-3
P-1624	45	J-1870	J-779	8	110	47
P-1443	48	J-1831	J-632	6	110	-11
P-1672	220	J-1651	J-1336	8	110	6
P-1823	319	J-1132	J-2053	8	110	-78
P-1640	218	J-885	J-1386	8	110	-205
P-1890	249	J-805	J-668	8	110	-146
P-1032	296	J-1840	J-1378	8	110	-14
P-2256	79	J-1632	J-1225	8	110	-11
P-1664	303	J-1318	J-1725	8	110	-9
P-1523	174	J-1091	J-1543	8	110	-131
P-1028	323	J-1788	J-2089	8	110	29
P-2483	56	J-690	J-811	8	110	-6
P-2289	428	J-1115	J-1534	8	110	80
P-2551	125	J-901	J-781	8	110	22
P-1254	242	J-1684	148	6	110	81
P-1182	58	J-2000	J-847	8	110	41
P-2192	165	J-644	J-1469	8	110	23
P-1819	53	J-624	J-1616	8	110	1
P-1159	78	J-1480	J-991	8	110	4
P-2653	390	J-1730	J-29	8	110	5
P-2183	62	J-1693	J-958	8	110	-55
P-1188	115	J-694	J-1095	8	110	-44
P-2516	178	J-1386	J-1404	8	110	-208
P-1822	223	J-1574	J-1919	8	110	3
P-2429	16	J-1356	J-1235	8	110	63
P-951	194	J-823	J-1085	8	110	16
P-2148	124	J-976	J-1261	8	110	9
P-1746	192	J-1294	J-1782	8	110	4
P-2043	235	J-1414	J-1802	8	110	14
P-1668	212	J-144	J-872	8	110	1
P-1463	127	J-168	J-1574	8	110	54
P-1147	208	J-1218	J-1622	12	110	11
P-2082	282	J-1356	J-731	8	110	2
P-1888	500	J-1910	J-726	8	110	27
P-1445	205	J-1800	J-2001	8	110	118

PROPOSED SYSTEM
PIPE TABLE

Label	Length (ft)	Start Node	Stop Node	Diameter (in)	Hazen-Williams C	Flow (gpm)
P-1960	45	J-1664	J-666	8	110	-36
P-1307	54	J-1343	J-1318	8	110	-8
P-1108	222	J-90	J-604	12	110	117
P-2444	51	J-1222	J-1097	8	110	91
P-1577	430	J-1010	J-1421	8	110	22
P-2093	272	J-1573	J-1918	8	110	-49
P-1214	55	J-1625	J-940	8	110	3
P-1068	439	J-2050	J-1761	8	110	24
P-1662	353	J-1849	J-1100	8	110	115
P-1828	73	J-1848	J-662	8	110	-21
P-2053	54	J-1387	J-1787	8	110	264
P-2602	148	J-1141	J-1111	8	110	14
P-2241	384	J-726	J-1135	8	110	18
P-1168	54	J-1694	J-2006	8	110	2
P-2543	61	J-1752	J-2060	12	110	-450
P-1982	378	J-1122	J-839	6	110	-7
P-2560	241	J-1000	J-1946	8	110	-2
P-2386	251	J-1103	J-1514	8	110	4
P-1826	162	J-1375	J-1776	8	110	6
P-1060	103	J-978	J-1494	8	110	94
P-1867	385	J-1385	J-874	8	110	12
P-1571	488	J-1339	J-623	8	110	78
P-1058	49	J-2082	J-883	12	110	42
P-1291	291	J-949	J-2082	12	110	-7
P-2106	112	J-1795	J-1676	8	110	15
P-2145	230	J-745	J-1246	8	110	-13
P-1069	374	J-1075	J-1475	8	110	-15
P-1549	281	J-1734	J-1983	8	110	33
P-1916	392	J-927	J-1551	6	110	50
P-2502	147	J-1249	J-1747	8	110	7
P-1204	188	J-1182	J-1358	8	110	30
P-1962	30	J-743	J-1744	8	110	-53
P-1261	245	J-1697	J-2008	8	110	-34
P-1102	53	J-1698	J-1374	8	110	17
P-967	86	J-1999	J-846	12	110	-218
P-1086	204	J-1410	J-1797	8	110	8
P-1808	190	J-1048	J-1451	8	110	-4
P-1210	183	J-600	J-1010	8	110	35
P-1294	43	J-806	J-1209	8	110	-16
P-920	221	J-605	J-1014	8	110	74
P-1616	368	J-2008	J-851	8	110	-42
P-1101	56	J-1337	J-1904	8	110	16
P-2128	34	J-1139	J-1505	8	110	39
P-2250	76	J-736	J-1239	8	110	-10
P-2181	319	J-1782	J-661	8	110	4

PROPOSED SYSTEM
PIPE TABLE

Label	Length (ft)	Start Node	Stop Node	Diameter (in)	Hazen-Williams C	Flow (gpm)
P-1773	237	J-2040	J-1002	8	110	37
P-2047	515	J-332	J-1409	8	110	0
P-1043	259	J-1929	J-1708	8	110	-178
P-2458	323	J-2086	J-969	8	110	6
P-2021	326	J-1826	J-628	8	110	24
P-2228	93	J-1633	J-2034	8	110	8
P-1913	325	J-1792	J-1015	6	110	2
P-2484	284	J-1957	J-2030	8	110	-71
P-1381	59	J-1242	J-1657	8	110	30
P-1406	138	J-1299	J-1429	8	110	10
P-1016	328	J-2046	J-800	8	110	4
P-2091	117	J-1487	J-672	8	110	25
P-976	188	J-1581	J-1926	8	110	25
P-2222	126	J-1037	J-1544	8	110	112
P-1336	265	J-2104	J-994	8	110	25
P-1456	389	J-1831	J-1230	8	110	11
P-1594	667	J-1630	J-1794	8	110	135
P-1222	243	J-1652	J-1653	12	110	-554
P-2625	121	J-1773	J-2077	8	110	-63
P-1951	58	J-1794	J-1895	8	110	133
P-1496	238	J-1680	J-1994	8	110	124
P-2154	408	J-1282	J-1703	8	110	21
P-1358	237	J-1465	J-702	8	110	19
P-1946	421	J-985	J-1793	8	110	14
P-2610	352	J-1384	J-1784	8	110	4
P-984	448	J-1864	J-769	8	110	4
P-2159	508	J-1643	J-2068	8	110	40
P-1138	439	J-1618	J-1120	8	110	64
P-2636	293	J-1851	J-663	8	110	32
P-1603	563	J-1263	J-743	8	110	-47
P-1399	123	J-1707	J-1314	8	110	26
P-2011	48	J-717	J-1123	8	110	-25
P-1078	356	J-1793	J-2092	8	110	10
P-2150	198	J-1257	J-1753	8	110	-22
P-1130	182	J-815	J-1626	8	110	2
P-1284	520	J-998	J-1411	8	110	7
P-2186	372	J-2007	J-1709	8	110	-67
P-1589	68	J-985	J-1400	8	110	1
P-1366	293	J-1754	J-2062	8	110	-20
P-1990	176	J-1338	J-2049	8	110	0
P-2179	407	J-1985	J-1344	8	110	158
P-994	276	J-1698	J-2009	8	110	85
P-2603	151	J-1982	J-823	8	110	52
P-2296	281	J-940	J-1343	8	110	39
P-1643	72	J-665	J-1785	8	110	55

PROPOSED SYSTEM
PIPE TABLE

Label	Length (ft)	Start Node	Stop Node	Diameter (in)	Hazen-Williams C	Flow (gpm)
P-1604	482	J-1180	J-1579	8	110	-28
P-2214	244	J-1862	J-675	8	110	108
P-1902	59	J-1025	J-741	6	110	34
P-1047	211	J-1408	J-1871	8	110	-28
P-2162	200	J-608	J-1108	8	110	43
P-1562	468	J-2047	J-1752	8	110	24
P-1216	153	J-1067	J-1472	8	110	10
P-1657	232	J-163	J-1909	8	110	51
P-1180	55	J-1108	J-2021	8	110	12
P-1042	240	J-950	J-56	8	110	0
P-1778	53	J-1548	J-815	8	110	27
P-1917	154	J-2085	J-1369	8	110	-49
P-1488	405	J-1271	J-1686	8	110	10
P-2079	48	J-1339	J-1741	8	110	36
P-982	105	J-663	J-1064	8	110	18
P-2329	133	J-2008	J-1268	6	110	3
P-1468	46	J-926	J-1329	8	110	9
P-1972	306	J-1270	J-642	6	110	3
P-1733	373	J-1023	J-2063	8	110	1
P-2425	385	J-809	J-1213	8	110	74
P-2166	330	J-1720	J-2024	8	110	-2
P-1118	278	J-1417	J-1880	8	110	0
P-2538	520	J-1647	J-2043	8	110	4
P-1816	407	J-2058	J-1334	6	110	-13
P-2174	183	J-1692	J-959	12	110	-82
P-1790	539	J-1751	J-812	12	110	-460
P-2146	53	J-1122	J-1539	12	110	-32
P-1579	441	J-2012	J-1453	8	110	13
P-1295	378	J-945	J-648	8	110	-44
P-1609	335	J-1668	J-1300	8	110	-40
P-2038	317	J-1273	J-1112	8	110	78
P-1983	338	J-712	J-1113	8	110	9
P-1652	74	J-1611	J-1209	8	110	76
P-2574	348	282	J-1301	8	110	-99
P-2418	382	J-666	J-1407	8	110	6
P-2526	46	J-2056	J-1023	8	110	13
P-2285	161	J-1764	J-2071	8	110	4
P-1290	342	J-2021	J-976	8	110	11
P-1531	289	J-1855	J-1787	8	110	-123
P-1709	294	J-1483	J-980	8	110	-4
P-2149	469	J-705	J-1105	8	110	13
P-1384	60	J-1322	J-918	6	110	7
P-2137	139	J-147	J-1444	8	110	14
P-1622	175	J-1118	J-2029	8	110	20
P-2352	132	J-1066	J-39	8	110	-136

PROPOSED SYSTEM
PIPE TABLE

Label	Length (ft)	Start Node	Stop Node	Diameter (in)	Hazen-Williams C	Flow (gpm)
P-1726	80	J-1669	J-937	8	110	0
P-1095	257	J-1560	J-1847	8	110	8
P-1025	303	J-1618	J-620	8	110	4
P-2094	199	J-692	J-1222	8	110	92
P-1927	188	J-744	J-1153	8	110	1
P-1669	231	J-1591	J-1922	8	110	30
P-2410	170	J-2032	J-989	8	110	4
P-1238	53	J-1806	J-2104	8	110	42
P-2505	468	J-1445	J-614	6	110	16
P-1621	493	J-2108	J-1238	8	110	35
P-1865	513	J-1072	J-1476	8	110	-115
P-1405	207	J-1064	J-1194	8	110	15
P-1835	532	J-697	J-335	8	110	50
P-2164	62	J-1560	J-1906	8	110	62
P-2372	367	J-1576	J-747	8	110	45
P-1659	129	J-683	J-1083	8	110	6
P-1815	260	J-977	J-882	8	110	1
P-2474	95	J-650	J-1364	8	110	-45
P-974	83	J-2077	J-953	8	110	3
P-1437	262	J-2089	J-1907	8	110	25
P-1412	558	J-1541	J-1970	8	110	5
P-1067	184	J-968	J-1975	8	110	164
P-1635	150	J-1341	J-1829	8	110	-51
P-1498	176	J-140	J-1489	8	110	136
P-1341	351	J-1663	J-2054	8	110	-3
P-2313	238	J-1768	J-2044	8	110	61
P-2496	103	J-1539	J-1896	12	110	-34
P-2529	114	J-739	J-1151	8	110	50
P-2136	465	J-1753	J-1627	8	110	-41
P-2233	434	J-1357	J-1763	8	110	-32
P-960	143	J-1296	J-990	8	110	2
P-1379	248	J-1885	J-692	8	110	96
P-2506	527	J-1391	J-820	8	110	39
P-1759	121	J-1314	J-1723	8	110	2
P-1844	122	J-645	J-1052	8	110	2
P-2413	257	J-1930	J-849	8	110	6
P-2210	279	J-664	J-1065	8	110	9
P-2073	200	J-1307	J-1712	8	110	124
P-928	309	J-1722	J-2025	8	110	133
P-2365	394	J-725	J-1133	8	110	10
P-919	116	J-609	J-1252	8	110	-6
P-1566	319	J-1572	J-112	8	110	-69
P-2366	122	J-1485	J-772	8	110	7
P-1127	233	J-1173	J-1169	8	110	-125
P-2556	492	J-2011	J-863	8	110	-73

PROPOSED SYSTEM
PIPE TABLE

Label	Length (ft)	Start Node	Stop Node	Diameter (in)	Hazen-Williams C	Flow (gpm)
P-1824	328	J-796	J-1197	8	110	23
P-2172	342	J-1616	J-2022	8	110	-1
P-1345	408	J-138	J-713	8	110	98
P-959	346	J-1637	J-1322	8	110	14
P-1461	409	J-883	J-1297	12	110	40
P-1861	323	J-1994	J-842	8	110	118
P-1293	560	J-847	J-1255	8	110	27
P-1036	426	J-1457	J-1831	6	110	5
P-2022	347	J-634	J-1139	8	110	42
P-1309	426	J-1817	J-1452	8	110	32
P-1519	238	J-2080	J-1363	8	110	-44
P-2635	304	J-813	J-1219	8	110	-20
P-1836	268	J-947	J-1348	12	110	168
P-1160	260	J-1370	J-858	8	110	-10
P-2406	483	J-1787	J-2088	8	110	136
P-2608	181	J-1513	J-797	8	110	-1
P-1121	109	J-2016	J-873	8	110	-4
P-1630	52	J-653	J-1057	8	110	59
P-1751	219	J-1737	J-2045	8	110	1
P-1475	144	J-1469	J-1837	8	110	29
P-1364	300	J-1471	J-738	8	110	-18
P-1874	390	J-1553	J-1286	8	110	25
P-2176	231	J-1446	J-1549	6	110	7
P-1386	61	J-784	J-1190	8	110	-63
P-1109	315	J-1311	J-796	8	110	131
P-2634	226	J-1977	J-1289	8	110	25
P-2254	205	J-1078	J-1481	8	110	68
P-1376	299	J-823	J-1487	8	110	32
P-2437	23	J-856	J-1272	12	110	0
P-1142	407	J-1432	J-1813	8	110	-37
P-1157	66	J-2109	J-1234	8	110	-22
P-1285	455	J-1853	J-665	8	110	60
P-1596	400	J-859	J-1504	8	110	-77
P-1723	331	J-1522	J-641	8	110	5
P-2103	348	J-1592	J-1205	8	110	57
P-2275	248	J-755	J-1167	8	110	-17
P-2454	535	J-336	J-1803	8	110	26
P-2648	78	J-1511	J-753	8	110	6
P-2097	259	J-1984	J-826	8	110	3
P-1242	107	J-1260	J-859	8	110	-64
P-943	390	J-614	J-829	8	110	-34
P-999	62	J-1788	J-1129	8	110	31
P-2541	235	J-1812	J-600	8	110	37
P-1786	58	J-2054	J-802	8	110	-5
P-2006	58	J-1674	J-1989	8	110	-7

PROPOSED SYSTEM
PIPE TABLE

Label	Length (ft)	Start Node	Stop Node	Diameter (in)	Hazen-Williams C	Flow (gpm)
P-1600	668	J-1062	J-1781	8	110	-7
P-2412	211	J-1819	J-607	12	110	4
P-2336	329	J-96	J-1408	8	110	-23
P-2501	85	J-1945	J-1370	8	110	-9
P-1169	180	J-1398	J-681	8	110	-110
P-940	55	J-1701	J-2012	12	110	-46
P-2590	173	J-1398	J-1069	8	110	15
P-2324	48	J-1891	J-1763	6	110	-8
P-2068	412	J-1445	J-1986	8	110	30
P-1436	215	J-1951	J-1377	8	110	3
P-2456	274	J-1077	J-1479	8	110	66
P-1265	489	J-1735	J-2108	8	110	28
P-1305	125	J-1875	J-700	12	110	-168
P-1009	56	J-1854	J-1927	8	110	33
P-2420	337	J-1126	J-1543	12	110	749
P-1818	394	J-622	J-1032	6	110	14
P-2156	170	J-1132	J-1241	6	110	6
P-1793	301	J-1845	J-745	8	110	-5
P-1373	395	J-1360	J-728	8	110	38
P-2153	319	J-1978	J-1650	8	110	49
P-1774	289	J-1160	J-1566	8	110	50
P-2593	261	J-935	J-1637	8	110	-3
P-1697	489	J-988	J-1840	8	110	6
P-2067	256	J-1940	J-1013	8	110	-125
P-1075	167	J-1165	J-1670	8	110	-3
P-1277	568	J-1455	J-1341	8	110	-50
P-1342	452	J-1169	J-1675	8	110	-130
P-970	101	J-1117	J-1556	8	110	-29
P-1451	378	J-1743	J-1235	8	110	-26
P-1760	210	J-1279	J-1771	8	110	5
P-1041	462	J-2088	J-1800	8	110	126
P-1541	378	J-1822	J-1025	6	110	40
P-1703	63	J-1509	J-687	8	110	2
P-1801	384	J-748	J-1249	8	110	70
P-1353	649	J-1252	J-1744	8	110	-91
P-2251	49	J-1654	J-1982	8	110	54
P-2457	281	J-706	J-1441	8	110	-52
P-1311	315	J-1576	J-1591	8	110	30
P-1427	217	J-1662	J-1987	6	110	5
P-1077	136	J-785	J-1412	8	110	95
P-844	927	J-160	J-347	12	110	-437
P-839	259	J-343	J-151	12	110	-5
P-838	368	167	J-343	8	110	-5
P-837	54	J-342	J-2163	30	110	4,653
P-836	33	1593-B	J-342	30	110	4,653

PROPOSED SYSTEM
PIPE TABLE

Label	Length (ft)	Start Node	Stop Node	Diameter (in)	Hazen-Williams C	Flow (gpm)
P-835	70	J-341	J-2163	30	110	4,653
P-834	44	1585-B	J-341	30	110	4,653
P-833	84	J-340	J-2163	30	110	6,737
P-832	62	1592-B	J-340	30	110	6,737
P-829	115	J-293	J-338	8	110	-103
P-828	507	J-338	J-335	8	110	-105
P-827	111	1609-B	J-338	8	110	0
P-824	178	1600-B	J-337	12	110	0
P-823	930	J-335	J-336	8	110	-60
P-821	79	J-334	1609-A	8	110	0
P-819	698	J-333	J-334	8	110	9
P-818	86	J-333	J-332	8	110	-18
P-807	294	J-310	J-173	8	110	-98
P-789	102	J-38	J-42	30	110	6,492
P-785	36	J-30	1593-A	30	110	4,653
P-782	288	J-109	J-4	16	110	-1,029
P-781	2,286	J-299	J-109	16	110	-849
P-769	463	J-298	J-293	16	110	955
P-768	62	J-330	J-44	16	110	765
P-767	73	1583-B	J-330	16	110	765
P-766	72	J-329	J-44	16	110	764
P-765	71	1584-B	J-329	16	110	764
P-764	319	J-24	T-3	20	110	-5,504
P-762	1,137	J-325	J-326	8	110	51
P-761	861	J-326	J-167	8	110	-21
P-760	552	J-172	J-326	8	110	-69
P-759	819	J-131	J-325	8	110	-37
P-758	733	J-324	J-74	14	110	203
P-757	288	J-73	J-324	14	110	203
P-750	608	J-102	1606-A	12	110	85
P-748	333	J-251	J-321	8	110	-4
P-742	2,634	J-169	J-320	12	110	205
P-732	1,478	J-318	55	16	110	181
P-731	1,398	119	J-318	20	110	1,187
P-722	754	273	J-314	12	110	0
P-718	793	J-102	J-312	8	110	-19
P-705	401	J-197	J-69	12	110	-196
P-693	438	J-301	J-147	8	110	15
P-692	1,914	J-64	J-301	8	110	35
P-687	2,065	J-298	J-299	16	110	-772
P-679	1,027	J-109	J-294	12	110	-250
P-674	2,767	J-5	J-293	16	110	-858
P-670	136	J-44	J-290	24	110	2,770
P-666	375	J-127	J-289	8	110	33
P-626	635	J-272	J-148	12	110	-427

PROPOSED SYSTEM
PIPE TABLE

Label	Length (ft)	Start Node	Stop Node	Diameter (in)	Hazen-Williams C	Flow (gpm)
P-625	354	163	J-272	12	110	-247
P-623	2,608	172	J-97	12	110	-475
P-569	618	J-250	J-2161	12	110	-155
P-552	1,460	J-241	78	30	110	3,565
P-551	2,551	J-104	J-241	30	110	4,288
P-541	283	J-237	J-103	12	110	124
P-540	653	243	J-237	12	110	179
P-526	222	J-231	J-153	30	110	6,078
P-525	525	J-129	J-231	30	110	6,078
P-519	1,762	J-229	245	12	110	458
P-475	2,607	J-209	J-204	30	110	176
P-474	2,736	J-107	J-209	30	110	518
P-472	1,615	J-208	J-108	12	110	0
P-471	2,817	J-107	J-208	12	110	0
P-469	1,503	J-207	J-103	12	110	15
P-468	433	J-101	J-207	12	110	-144
P-465	2,735	J-204	J-8	30	110	-440
P-439	1,293	J-194	J-73	16	110	520
p-387	70	J-181	J-114	12	110	0
P-383	63	1591-B	J-181	12	110	0
P-382	52	J-180	J-114	12	110	0
P-381	64	1590-B	J-180	12	110	0
P-380	37	J-179	J-114	12	110	218
P-379	65	1589-B	J-179	12	110	218
P-378	30	J-178	J-114	12	110	218
P-377	66	1588-B	J-178	12	110	218
P-374	36	J-177	J-114	12	110	49
P-373	67	1587-B	J-177	12	110	49
P-372	50	J-176	J-114	12	110	49
P-371	69	1586-B	J-176	12	110	49
P-362	2,356	J-170	J-173	8	110	102
P-360	1,140	J-170	J-172	6	110	-64
P-355	1,080	J-167	J-131	8	110	-35
P-354	748	J-165	J-167	8	110	-9
P-350	57	J-158	J-44	16	110	392
P-349	74	1582-B	J-158	16	110	392
P-344	57	J-133	J-44	12	110	196
P-341	74	1581-B	J-133	16	110	196
P-340	63	J-81	J-67	12	110	-803
P-347	26	J-132	J-118	6	110	24
P-346	24	J-128	J-132	8	110	24
P-345	1,009	J-67	J-118	8	110	101
P-329	300	R-1	J-2164	60	110	29,034
P-327	81	J-30	J-60	30	110	4,020
P-324	78	J-6	1601-B	12	110	0

PROPOSED SYSTEM
PIPE TABLE

Label	Length (ft)	Start Node	Stop Node	Diameter (in)	Hazen-Williams C	Flow (gpm)
P-318	116	J-42	J-62	30	110	6,499
P-316	136	J-60	J-41	20	110	1,602
P-315	664	J-41	J-59	20	110	1,602
P-319	53	J-30	1592-A	30	110	6,737
P-313	48	J-38	1591-A	12	110	0
P-311	37	J-38	1590-A	12	110	0
P-309	39	J-38	1589-A	12	110	218
P-307	43	J-38	1588-A	12	110	218
P-303	54	J-38	1587-A	12	110	49
P-295	74	J-38	1586-A	12	110	49
P-293	50	J-30	1585-A	30	110	4,653
P-292	34	J-2164	J-30	60	110	29,034
P-280	1,085	J-19	J-63	30	110	5,340
P-279	1,535	J-150	J-19	30	110	6,007
P-275	194	J-18	J-144	8	110	10
P-271	470	J-18	J-70	12	110	-343
P-270	312	J-124	J-18	12	110	-331
P-266	2,003	J-17	J-68	30	110	4,770
P-263	685	J-70	J-17	30	110	4,841
P-261	321	J-16	J-85	12	110	-63
P-260	438	J-86	J-16	12	110	-71
P-258	35	J-15	J-84	12	110	-94
P-257	27	J-81	J-15	12	110	159
P-250	3,729	J-114	J-11	12	110	288
P-248	130	J-11	J-57	12	110	282
P-246	74	J-105	J-104	12	110	-977
P-423	2,944	J-111	J-169	12	110	435
P-420	1,298	J-168	39	12	110	-33
P-419	401	J-116	J-168	12	110	22
P-408	169	J-162	J-137	12	110	1,007
P-407	745	J-162	J-150	30	110	3,842
P-401	675	J-62	J-162	30	110	5,418
P-398	241	J-159	J-160	8	110	-192
P-393	211	J-157	J-117	12	110	-620
P-384	1,126	J-154	J-155	12	110	286
P-375	119	J-104	J-155	12	110	116
P-339	124	J-153	J-154	8	110	443
P-338	573	88	J-104	30	110	5,380
P-323	525	J-149	J-152	8	110	36
P-305	1,117	J-148	J-86	12	110	-56
P-289	443	J-126	J-145	6	110	-11
P-277	488	J-66	J-142	8	110	126
P-276	477	J-140	J-2269	8	110	-220
P-274	1,818	J-141	J-70	30	110	5,022
P-273	732	J-63	J-141	30	110	5,033

PROPOSED SYSTEM
PIPE TABLE

Label	Length (ft)	Start Node	Stop Node	Diameter (in)	Hazen-Williams C	Flow (gpm)
P-267	809	J-136	J-139	8	110	4
P-264	921	J-137	J-138	12	110	518
P-256	177	J-136	J-135	12	110	191
P-255	325	J-134	J-136	8	110	199
P-254	110	J-135	J-117	12	110	498
P-253	799	J-63	J-135	12	110	307
P-233	776	J-130	J-110	12	110	469
P-226	45	J-403	J-130	12	110	469
P-225	369	1598-A	J-129	8	110	0
P-208	79	J-10	J-129	30	110	6,078
P-201	50	1597-B	J-100	12	110	0
P-200	56	J-101	1597-A	8	110	0
P-196	977	J-81	J-128	18	110	645
P-194	881	J-126	J-98	12	110	198
P-190	1,531	J-125	J-119	20	110	-2,260
P-189	2,018	J-78	J-125	20	110	-2,260
P-182	1,096	J-96	J-121	12	110	158
P-180	501	J-69	J-120	12	110	-204
P-179	1,734	J-119	J-13	20	110	-2,260
P-176	748	J-117	J-116	12	110	-122
P-172	421	J-57	J-115	12	110	214
P-168	417	J-113	J-50	12	110	84
P-166	993	J-40	J-502	12	110	22
P-160	1,304	J-31	J-32	12	110	-294
P-159	228	J-6	J-110	12	110	-23
P-151	99	J-103	J-48	12	110	138
P-148	506	J-99	J-100	12	110	54
P-147	841	J-98	171	12	110	208
P-144	606	J-92	J-96	12	110	164
P-138	83	J-89	J-88	12	110	30
P-137	329	J-79	J-89	12	110	182
P-133	49	J-84	J-79	12	110	182
P-132	2,145	J-2270	142	12	110	515
P-129	386	J-12	J-83	12	110	-243
P-126	58	J-2270	J-80	12	110	162
P-123	43	J-68	J-12	30	110	4,770
P-121	145	J-73	J-76	8	110	50
P-120	1,405	J-74	294	14	110	203
P-115	778	J-71	J-72	12	110	-239
P-107	1,072	J-61	J-13	20	110	1,602
P-105	2,371	J-59	J-61	20	110	1,602
P-101	329	J-55	J-56	12	110	0
P-100	667	J-52	J-55	12	110	7
P-98	457	J-55	J-53	12	110	5
P-99	1,105	J-54	J-53	12	110	3

PROPOSED SYSTEM
PIPE TABLE

Label	Length (ft)	Start Node	Stop Node	Diameter (in)	Hazen-Williams C	Flow (gpm)
P-97	202	J-52	J-54	12	110	14
P-89	75	J-46	J-21	20	110	3,061
P-88	23	J-24	J-46	30	110	3,061
P-87	19	J-21	J-45	20	110	-874
P-86	2,109	J-45	J-5	16	110	-874
P-80	58	J-43	1581-A	16	110	196
P-79	33	J-25	J-43	16	110	2,770
P-78	78	J-43	1584-A	16	110	764
P-77	72	J-43	1583-A	16	110	765
P-76	66	J-43	1582-A	16	110	392
P-67	571	J-32	J-39	12	110	-88
P-61	734	J-36	J-37	12	110	196
P-41	29	J-27	T-3	20	110	-12,722
P-39	97	J-27	J-22	20	110	-1,166
P-35	77	J-22	J-25	20	110	-1,166
P-34	267	J-25	J-21	16	110	-3,936
P-32	562	J-7	J-24	30	110	-440
P-12	2,494	J-8	J-7	30	110	-440
488	3,603	37	117	12	110	0
487	50	J-27	Zone3future	30	110	13,888
522	1,565	294	J-387	16	110	567
498	817	293	294	16	110	365
491	1,028	J-73	293	16	110	267
486	1,300	292	293	8	110	98
485	995	J-194	292	8	110	-4
484	1,175	291	292	12	110	102
141	997	55	291	12	110	102
483	60	290	J-44	16	110	653
477	75	289	290	16	110	653
433	59	J-43	288	16	110	653
432	3,684	116	J-294	24	110	3,193
416	2,251	287	202	12	110	-407
413	2,567	287	217	12	110	212
378	1,192	118	J-305	20	110	-630
362	622	J-131	J-403	8	110	0
168	1,714	J-230	J-207	12	110	163
155	1,857	219	106	12	110	0
154	596	229	J-312	8	110	-53
521	5,852	286	J-24	24	110	2,087
519	2,899	103	J-1126	16	110	478
518	954	J-294	J-4	30	110	934
517	807	J-1834	J-299	8	110	77
516	1,441	147	136	12	110	213
515	256	241	242	12	110	-87
514	2,795	285	208	12	110	240

PROPOSED SYSTEM
PIPE TABLE

Label	Length (ft)	Start Node	Stop Node	Diameter (in)	Hazen-Williams C	Flow (gpm)
513	2,497	195	285	12	110	514
512	2,481	J-80	J-1450	11	110	407
511	1,428	J-62	J-150	42	110	16,827
510	139	J-42	J-62	42	110	15,747
509	96	J-38	J-42	42	110	15,754
508	444	J-1327	J-19	12	110	69
507	462	284	283	8	110	0
506	1,366	J-886	282	8	110	37
505	334	283	J-1488	8	110	136
504	230	282	283	8	110	136
503	1,386	J-109	281	8	110	-78
502	470	281	J-1262	12	110	28
501	931	280	J-1381	8	110	-59
500	431	280	J-1834	8	110	161
499	589	J-2093	280	8	110	102
467	582	274	J-1721	8	110	19
462	424	278	274	8	110	19
438	369	278	279	8	110	0
213	948	J-1029	278	8	110	19
497	76	J-30	J-60	24	110	2,235
496	58	J-78	J-80	20	110	1,583
495	56	J-2256	J-122	18	110	-1,088
494	829	116	J-1492	8	110	259
493	1,423	J-1867	116	12	110	-214
492	143	J-325	J-2165	8	110	-91
482	4,263	117	Zone3	20	110	2,907
481	2,029	272	J-37	24	110	3,174
480	1,292	J-123	J-1348	24	110	3,102
479	2,325	J-5	J-24	24	110	2,369
478	2,845	J-293	J-5	24	110	2,386
476	1,727	266	172	12	110	-630
475	2,668	197	192	12	110	-534
474	3,682	190	184	16	110	726
473	8,301	193	T-2alt	24	110	-1,473
472	3,163	211	185	12	110	225
471	1,094	J-61	J-13	30	110	4,653
470	2,283	J-59	J-61	30	110	4,653
469	689	J-41	J-59	30	110	4,653
468	158	J-60	J-41	30	110	4,653
466	438	157	162	12	110	105
465	4,841	J-114	J-968	12	110	246
464	56	277	J-38	30	110	6,737
463	18	276	277	30	110	6,737
461	37	J-30	275	30	110	6,737
460	42	Zone3future	T-3	30	110	-21,811

PROPOSED SYSTEM
PIPE TABLE

Label	Length (ft)	Start Node	Stop Node	Diameter (in)	Hazen-Williams C	Flow (gpm)
459	344	J-24	Zone3future	30	110	6,459
458	17	J-80	273	12	110	0
457	8	J-2270	J-78	12	110	-676
456	3,108	268	J-293	24	110	2,188
455	1,385	19	44	12	110	-75
454	1,398	J-312	233	12	110	-68
453	2,969	211	190	12	110	264
451	1,413	272	J-1653	12	110	561
276	1,636	J-1348	272	24	110	3,735
450	5,389	286	265	24	110	-2,087
449	1,901	J-208	J-108	16	110	382
448	3,038	J-107	J-208	16	110	594
447	1,516	120	271	12	110	65
446	1,504	271	117	24	110	-2,375
445	525	270	J-387	12	110	0
444	1,391	270	99	12	110	0
443	2,438	269	J-298	12	110	184
442	2,797	268	269	12	110	276
441	961	268	J-299	12	110	-150
440	2,697	J-294	268	24	110	2,406
439	5,405	J-13	155	30	110	3,995
437	1,209	J-148	J-86	18	110	-162
436	2,651	267	158	24	110	-2,198
435	5,281	266	267	24	110	-2,198
434	1,386	195	266	24	110	-2,827
431	1,200	265	262	24	110	-2,087
385	1,738	83	J-106	16	110	489
430	434	261	J-146	14	110	-483
429	3,218	260	J-37	24	110	-2,865
428	2,637	260	84	12	110	305
427	1,348	262	260	24	110	-2,515
426	2,650	263	262	16	110	-384
425	976	264	83	16	110	705
424	1,322	263	264	16	110	727
423	1,357	84	263	16	110	366
422	2,577	261	84	16	110	483
421	1,151	259	83	12	110	-392
420	1,124	J-763	259	12	110	-235
419	1,691	255	J-763	30	110	-3,544
418	1,949	257	216	12	110	53
417	1,657	257	J-107	12	110	-384
415	2,009	256	257	12	110	-46
414	1,893	258	239	12	110	115
412	2,383	258	J-2080	12	110	-357
411	1,849	256	258	12	110	44

PROPOSED SYSTEM
PIPE TABLE

Label	Length (ft)	Start Node	Stop Node	Diameter (in)	Hazen-Williams C	Flow (gpm)
410	2,659	256	216	12	110	21
409	2,635	256	255	12	110	-411
408	2,624	239	256	12	110	-106
407	2,690	239	202	12	110	134
406	1,054	254	J-204	12	110	-39
405	2,601	253	250	12	110	165
404	2,702	250	J-209	12	110	-236
403	2,740	253	J-204	18	110	-472
402	2,755	252	253	12	110	-202
401	1,307	251	252	12	110	-96
400	2,998	251	J-108	12	110	141
399	2,112	250	251	12	110	150
398	2,682	J-208	250	12	110	-145
397	374	94	93	8	110	240
396	1,393	90	249	12	110	65
395	605	J-229	248	8	110	3
394	625	243	J-230	12	110	-182
393	940	245	J-230	12	110	424
392	754	243	244	8	110	3
391	579	245	246	12	110	69
390	4,501	247	J-2080	12	110	-27
389	1,888	245	247	12	110	-35
388	1,778	247	91	12	110	-421
387	3,285	220	247	12	110	-240
386	3,345	234	J-2080	12	110	-235
384	2,653	234	239	12	110	198
383	2,648	237	238	12	110	-22
382	651	236	237	12	110	-3
381	2,694	235	236	12	110	16
380	2,979	242	235	12	110	43
355	1,141	238	235	12	110	20
354	1,343	234	238	12	110	89
353	2,664	220	234	12	110	98
319	2,570	220	J-230	12	110	-66
316	1,610	242	220	12	110	-148
312	2,773	J-237	242	12	110	42
295	2,783	241	J-48	12	110	-12
278	881	240	241	12	110	-79
277	2,886	233	240	12	110	-58
379	1,153	J-48	233	12	110	106
377	600	221	1606-A	12	110	-85
376	760	224	222	8	110	-10
375	576	225	223	12	110	-7
374	1,004	221	222	12	110	60
373	1,370	229	221	8	110	-4

PROPOSED SYSTEM
PIPE TABLE

Label	Length (ft)	Start Node	Stop Node	Diameter (in)	Hazen-Williams C	Flow (gpm)
372	1,612	229	224	8	110	15
371	2,371	230	231	8	110	-8
370	491	226	228	12	110	-40
369	963	225	226	12	110	-19
368	590	232	225	8	110	-4
367	985	232	228	8	110	-13
366	1,001	224	232	8	110	4
365	2,216	223	224	8	110	0
364	1,722	222	223	12	110	21
363	1,942	223	222	8	110	-7
361	821	106	194	12	110	0
360	1,924	227	233	12	110	-96
359	332	231	227	12	110	-96
358	571	228	231	12	110	-67
357	1,565	230	228	8	110	7
356	473	229	230	8	110	21
352	2,321	218	203	12	110	-335
351	1,903	206	218	12	110	-171
350	2,224	217	204	12	110	-327
349	2,221	205	217	12	110	-177
348	1,675	217	218	12	110	78
347	2,653	214	J-108	16	110	-470
346	2,623	215	J-208	12	110	-251
345	2,692	215	216	12	110	-214
344	2,581	216	J-107	20	110	-1,226
343	2,667	202	216	20	110	-671
342	2,640	215	204	12	110	228
341	1,671	214	215	12	110	-106
340	2,650	203	214	16	110	-446
339	2,568	213	196	12	110	-191
338	2,675	213	184	12	110	-327
337	2,655	182	213	12	110	4
336	2,656	212	193	24	110	884
335	2,456	211	212	12	110	-344
334	2,598	209	211	12	110	255
333	2,836	209	J-2260	16	110	359
332	2,509	194	209	16	110	645
331	2,611	210	194	24	110	1,910
330	2,777	208	210	12	110	-404
329	2,318	208	209	12	110	170
328	2,762	J-2261	208	12	110	-201
327	2,685	179	183	12	110	-141
326	2,670	201	192	12	110	-297
325	2,597	201	199	12	110	106
324	2,318	200	201	12	110	-112

PROPOSED SYSTEM
PIPE TABLE

Label	Length (ft)	Start Node	Stop Node	Diameter (in)	Hazen-Williams C	Flow (gpm)
323	2,656	198	200	12	110	-33
322	2,303	199	198	12	110	47
321	2,680	197	199	12	110	20
320	717	188	197	12	110	-440
318	2,612	205	207	12	110	-178
317	1,661	206	205	12	110	-70
315	1,439	204	203	12	110	20
314	2,522	202	204	12	110	249
313	2,223	207	287	12	110	-196
311	1,849	196	188	12	110	-299
310	2,435	195	210	24	110	2,313
309	2,786	174	285	12	110	-274
308	4,066	185	184	12	110	294
307	1,325	J-2260	185	12	110	399
306	4,126	186	187	12	110	-195
305	3,566	191	192	12	110	-279
304	828	187	188	12	110	-85
303	855	191	187	12	110	316
302	3,579	189	191	12	110	37
301	603	190	189	12	110	710
300	3,476	186	189	12	110	-262
299	2,471	184	186	12	110	353
298	2,802	212	194	24	110	-1,228
297	5,349	193	192	16	110	1,184
296	1,511	190	193	16	110	-1,173
294	2,802	183	184	12	110	-231
293	2,805	178	185	12	110	-329
292	4,093	183	178	12	110	-244
291	2,655	182	183	12	110	-209
290	2,597	180	182	12	110	-79
289	1,819	180	181	12	110	126
288	2,656	179	180	12	110	172
287	4,064	177	179	12	110	156
286	2,641	178	177	12	110	282
285	3,042	J-2263	178	12	110	302
284	6,945	175	174	12	110	-116
283	3,248	176	175	12	110	-97
282	1,790	J-2262	176	12	110	-97
281	2,898	J-2261	174	12	110	-122
280	678	J-151	173	8	110	17
279	1,104	171	J-99	12	110	208
275	454	172	J-250	12	110	-155
274	1,094	170	J-98	12	110	24
273	1,625	J-272	170	12	110	180
272	1,494	J-151	J-97	12	110	268

PROPOSED SYSTEM
PIPE TABLE

Label	Length (ft)	Start Node	Stop Node	Diameter (in)	Hazen-Williams C	Flow (gpm)
271	228	168	J-152	8	110	93
270	231	167	168	8	110	52
269	1,164	169	163	12	110	164
268	226	166	169	8	110	-134
267	623	166	167	8	110	57
266	253	165	166	8	110	-64
265	477	168	165	8	110	-51
264	929	164	J-1312	12	110	31
263	1,089	164	J-1306	12	110	-101
262	2,020	162	164	12	110	56
261	139	J-151	163	12	110	-291
260	2,742	160	J-148	14	110	243
259	747	J-91	161	12	110	-360
258	2,018	158	J-1675	12	110	254
257	1,320	159	158	24	110	2,478
256	2,659	159	161	12	110	581
255	1,345	153	159	24	110	3,101
254	2,664	160	153	14	110	-734
253	1,509	161	169	12	110	298
252	1,303	160	161	12	110	78
251	1,161	162	160	14	110	-273
250	2,651	J-87	162	14	110	-123
249	1,390	156	J-1116	12	110	-109
248	1,091	157	156	12	110	-132
247	3,969	154	155	12	110	-250
246	2,672	150	154	12	110	-74
245	1,515	151	150	12	110	-59
244	2,606	152	151	12	110	-39
243	1,157	152	154	12	110	-161
242	3,950	153	152	12	110	-169
241	1,251	155	153	24	110	3,731
240	984	J-1097	128	8	110	82
239	240	148	J-1996	6	110	18
238	428	149	J-1231	12	110	82
237	946	148	149	8	110	63
236	948	147	J-1226	12	110	-143
235	1,148	146	147	12	110	104
234	1,020	146	140	12	110	-126
233	605	145	146	12	110	12
232	1,115	144	145	12	110	113
231	1,050	144	140	12	110	-24
230	1,160	J-1893	144	12	110	107
229	529	143	142	12	110	-239
228	681	141	143	12	110	-190
227	508	J-84	142	12	110	-276

PROPOSED SYSTEM
PIPE TABLE

Label	Length (ft)	Start Node	Stop Node	Diameter (in)	Hazen-Williams C	Flow (gpm)
226	338	141	J-1611	12	110	92
225	533	J-1501	141	12	110	-84
224	1,268	J-120	140	8	110	88
223	660	140	J-1326	12	110	-8
222	1,109	139	140	12	110	80
221	798	J-1893	139	12	110	98
220	743	137	J-2099	8	110	-101
219	969	138	137	8	110	-87
218	452	138	J-805	12	110	-298
217	982	136	J-83	12	110	390
216	664	J-805	136	12	110	272
215	1,292	127	128	12	110	139
214	725	135	J-1325	12	110	-77
212	1,420	156	135	12	110	-50
211	1,350	133	134	12	110	-9
210	1,322	129	131	12	110	-22
209	1,250	130	129	12	110	-42
208	1,352	130	132	12	110	-38
207	1,107	131	132	12	110	38
206	1,200	J-1231	131	12	110	60
205	841	128	149	12	110	61
204	1,322	129	128	12	110	-95
203	1,322	126	129	12	110	-11
202	1,308	125	130	12	110	-15
201	1,944	134	126	12	110	-77
200	1,972	89	134	12	110	-34
199	1,322	124	89	12	110	-1
198	1,973	133	124	12	110	32
197	1,958	125	133	12	110	58
196	1,272	126	125	12	110	43
195	1,314	127	126	12	110	174
194	642	J-20	127	12	110	378
193	2,151	35	61	12	110	6
157	1,351	63	35	12	110	-12
116	2,134	62	63	12	110	-2
114	1,322	61	62	12	110	10
17	1,326	J-1830	61	12	110	16
192	524	J-347	J-19	12	110	-722
191	1,422	J-2269	J-347	12	110	-220
190	1,645	30	44	12	110	-393
189	1,159	J-11	123	12	110	2
188	1,145	119	J-123	20	110	-21
187	1,224	121	119	20	110	1,540
186	1,227	120	118	20	110	2,053
185	1,262	J-758	120	12	110	89

PROPOSED SYSTEM
PIPE TABLE

Label	Length (ft)	Start Node	Stop Node	Diameter (in)	Hazen-Williams C	Flow (gpm)
184	1,554	J-758	J-150	30	110	-7,348
183	1,471	J-305	J-758	30	110	-6,045
182	1,156	122	J-305	30	110	-4,859
181	1,144	J-123	122	30	110	-4,781
180	1,523	121	47	12	110	231
179	1,226	122	121	12	110	78
178	1,376	118	121	20	110	1,693
177	1,551	43	120	20	110	2,029
176	1,342	47	49	24	110	-2,746
175	1,560	117	43	36	110	-5,283
174	1,609	49	271	24	110	-2,441
173	1,652	118	49	20	110	991
172	2,815	272	116	16	110	0
171	1,931	115	116	24	110	3,666
169	667	115	J-318	24	110	-3,824
167	2,569	112	114	12	110	-176
166	2,642	111	112	12	110	-80
165	2,651	113	114	16	110	228
164	2,638	113	109	16	110	-657
163	2,542	111	113	12	110	-229
162	2,615	111	108	12	110	-173
161	2,687	110	111	12	110	75
160	2,592	107	110	12	110	95
159	2,769	109	104	20	110	-1,363
158	2,582	108	109	12	110	-345
156	2,661	107	108	12	110	-115
153	592	105	J-290	20	110	-1,632
152	2,572	104	105	20	110	-1,632
151	2,412	103	104	16	110	-144
150	2,503	J-2117	103	16	110	419
149	627	102	J-169	12	110	-188
148	2,907	J-700	102	12	110	-182
147	1,216	J-2094	101	12	110	0
146	2,860	101	98	12	110	-117
145	1,071	1601-A	100	12	110	140
144	937	100	J-1190	12	110	79
143	1,239	98	J-110	12	110	-439
142	1,965	99	101	12	110	-19
140	260	87	J-153	30	110	-5,635
139	306	88	87	30	110	-5,505
138	1,098	97	J-241	12	110	-555
137	293	97	96	8	110	87
136	288	95	97	12	110	-468
135	970	91	95	12	110	-381
134	1,476	92	J-1781	12	110	85

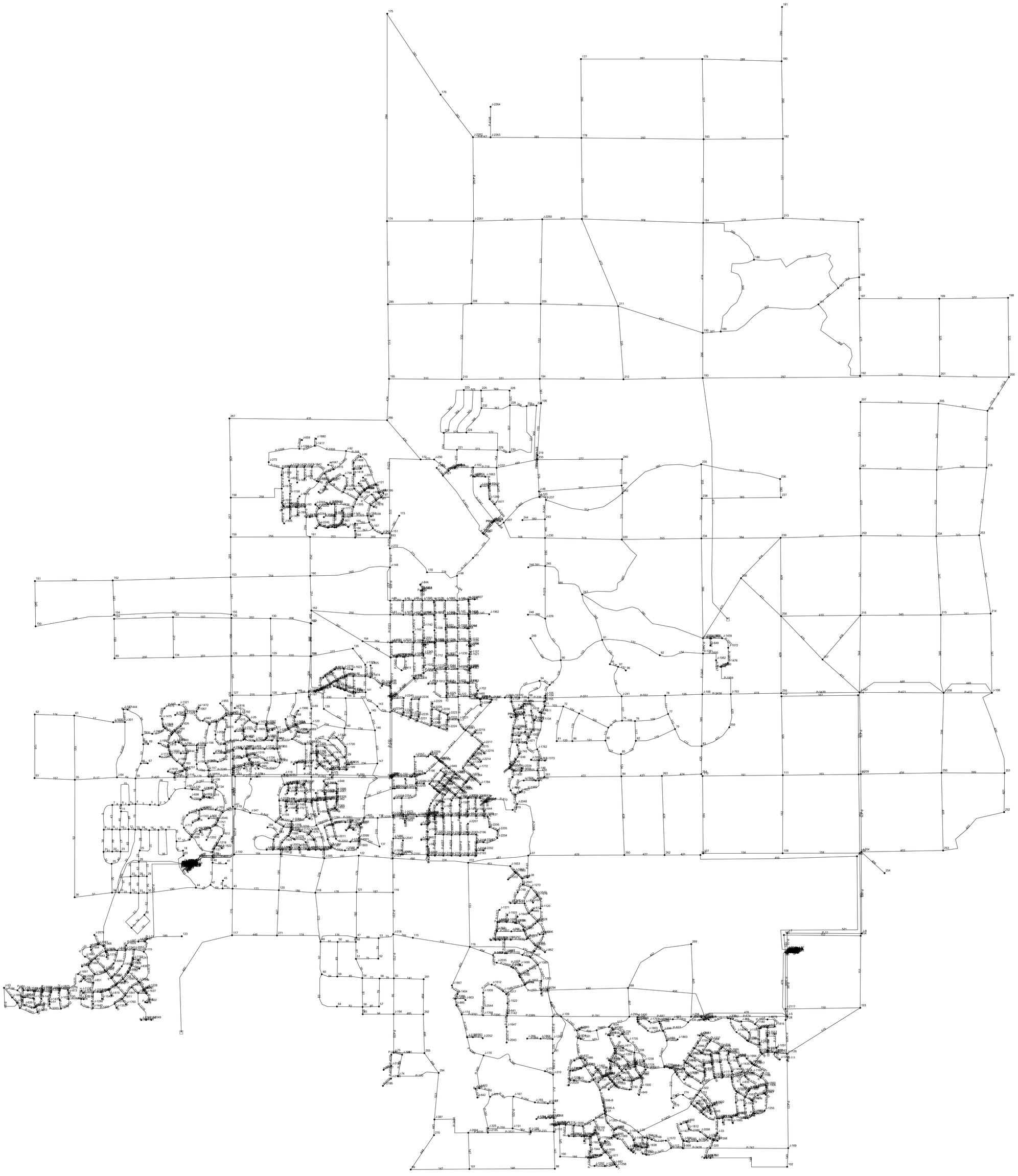
PROPOSED SYSTEM
PIPE TABLE

Label	Length (ft)	Start Node	Stop Node	Diameter (in)	Hazen-Williams C	Flow (gpm)
133	2,038	91	92	12	110	259
132	1,625	90	91	12	110	473
131	1,535	90	J-229	16	110	500
130	964	93	90	16	110	1,212
129	402	J-105	93	16	110	972
128	816	88	94	8	110	125
127	1,011	87	94	8	110	131
126	1,243	78	J-106	30	110	3,495
125	160	71	J-155	12	110	-401
124	783	85	84	12	110	-378
123	744	85	82	12	110	242
122	785	80	85	8	110	-81
121	1,109	86	80	8	110	2
120	523	81	86	8	110	25
119	973	73	86	8	110	32
118	1,193	72	81	8	110	81
117	661	82	76	12	110	75
115	448	74	80	8	110	-27
113	1,176	79	83	12	110	176
112	556	77	79	12	110	120
111	631	78	77	12	110	70
110	1,393	82	79	8	110	112
109	1,149	76	77	8	110	106
108	470	75	76	12	110	87
107	816	75	J-241	12	110	-137
106	537	74	75	8	110	6
105	1,085	73	74	8	110	35
104	582	72	73	8	110	123
103	621	71	72	8	110	260
102	234	66	67	8	110	0
101	163	68	69	8	110	0
100	340	70	J-1061	8	110	47
99	1,099	70	J-1444	8	110	-10
98	318	68	70	8	110	45
97	657	66	68	8	110	54
96	531	39	66	8	110	62
95	1,199	55	J-194	16	110	288
94	1,034	65	J-194	12	110	228
93	242	56	65	12	110	228
92	1,098	49	60	12	110	454
91	572	50	49	8	110	-209
90	611	48	50	8	110	-82
89	1,158	50	59	8	110	94
88	744	47	53	24	110	2,855
87	569	48	51	8	110	188

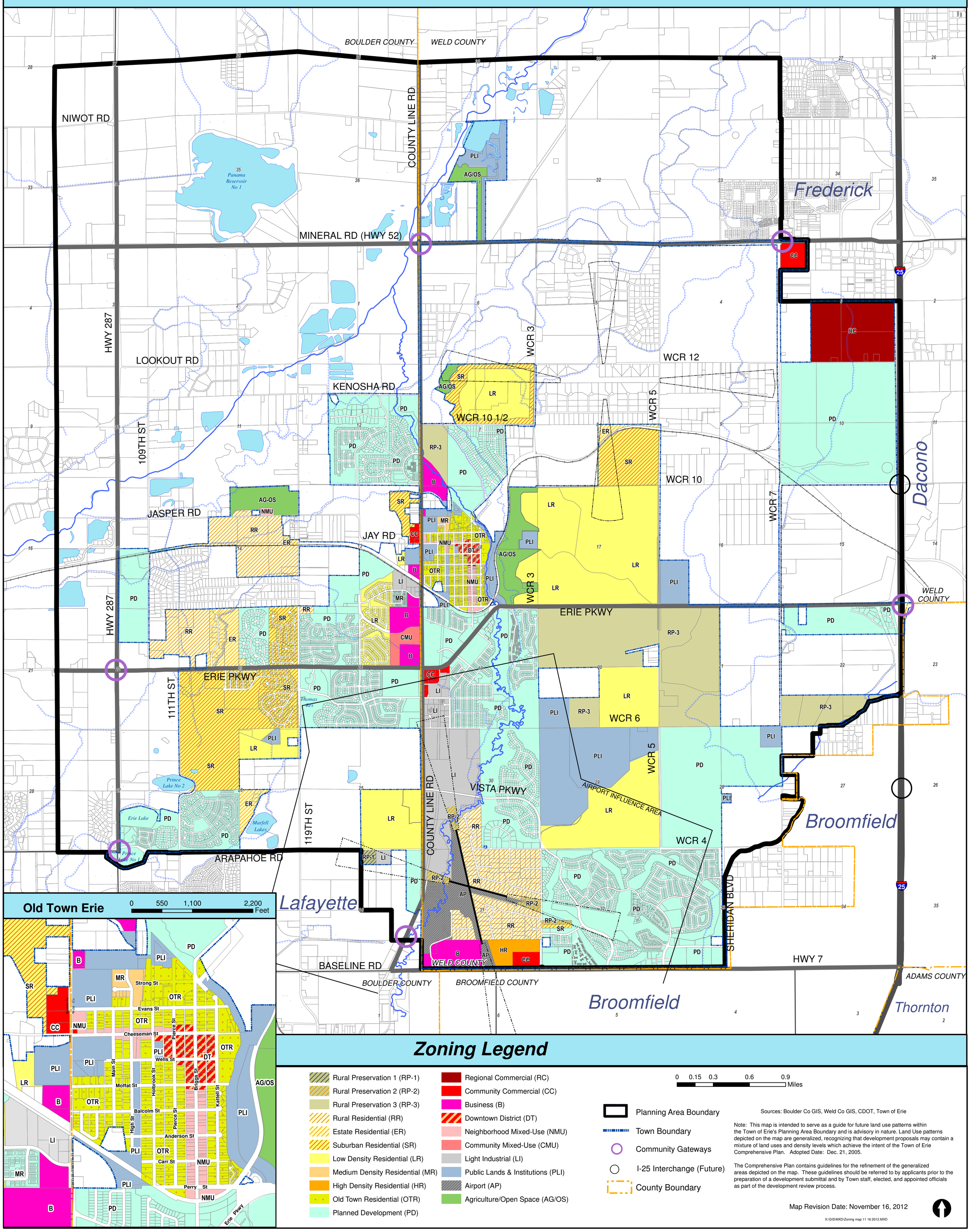
PROPOSED SYSTEM
PIPE TABLE

Label	Length (ft)	Start Node	Stop Node	Diameter (in)	Hazen-Williams C	Flow (gpm)
86	145	47	48	12	110	123
85	843	59	54	8	110	159
84	534	60	59	8	110	114
83	1,554	64	60	12	110	-321
82	857	56	64	12	110	-301
81	965	56	54	8	110	-24
80	551	57	56	8	110	-58
79	937	58	57	8	110	-25
78	481	58	55	12	110	209
77	576	54	58	12	110	224
76	692	51	54	8	110	105
75	748	52	51	8	110	-38
74	685	53	52	8	110	-22
73	540	J-318	53	24	110	-2,818
72	1,162	43	J-150	36	110	-7,314
71	333	46	43	12	110	-2

TOWN OF ERIE
PROPOSED WATER SYSTEM



Town of Erie, Colorado
Zoning Map



Zoning Legend

- Rural Preservation 1 (RP-1)
- Rural Preservation 2 (RP-2)
- Rural Preservation 3 (RP-3)
- Rural Residential (RR)
- Estate Residential (ER)
- Suburban Residential (SR)
- Low Density Residential (LR)
- Medium Density Residential (MR)
- High Density Residential (HR)
- Old Town Residential (OTR)
- Planned Development (PD)
- Regional Commercial (RC)
- Community Commercial (CC)
- Business (B)
- Downtown District (DT)
- Neighborhood Mixed-Use (NMU)
- Community Mixed-Use (CMU)
- Light Industrial (LI)
- Public Lands & Institutions (PLI)
- Airport (AP)
- Agriculture/Open Space (AG/OS)

0 0.15 0.3 0.6 0.9 Miles

- Planning Area Boundary
- Town Boundary
- Community Gateways
- I-25 Interchange (Future)
- County Boundary

Sources: Boulder Co GIS, Weld Co GIS, CDOT, Town of Erie

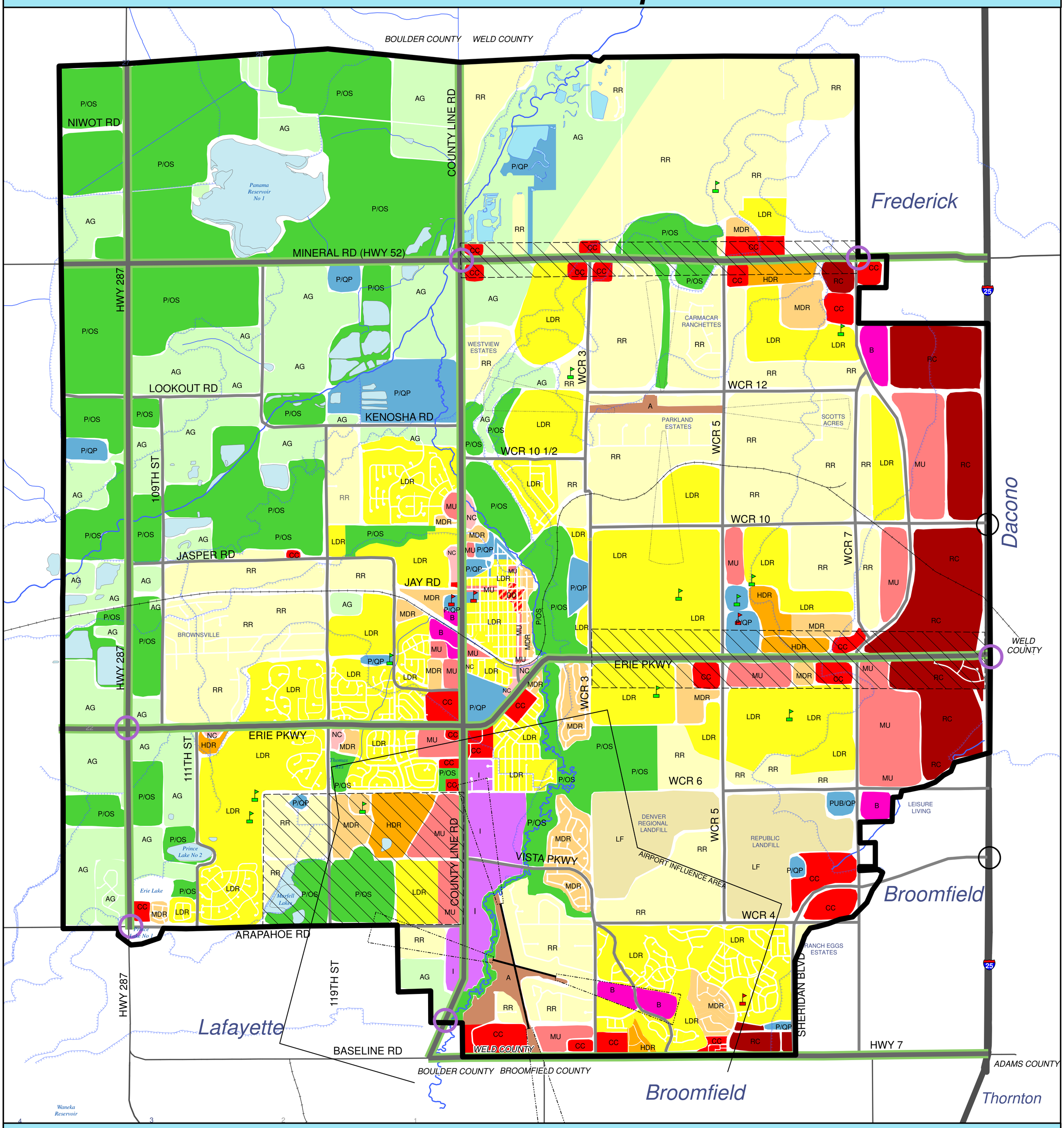
Note: This map is intended to serve as a guide for future land use patterns within the Town of Erie's Planning Area Boundary and is advisory in nature. Land Use patterns depicted on the map are generalized, recognizing that development proposals may contain a mixture of land uses and density levels which achieve the intent of the Town of Erie Comprehensive Plan. Adopted Date: Dec. 21, 2005.

The Comprehensive Plan contains guidelines for the refinement of the generalized areas depicted on the map. These guidelines should be referred to by applicants prior to the preparation of a development submittal and by Town staff, elected, and appointed officials as part of the development review process.

Map Revision Date: November 16, 2012

X:\GIS\MXD\Zoning map 11 16 2012.MXD

Town of Erie, Colorado
2005 Comprehensive Plan
Land Use Plan Map



Land Use Plan Legend

AG	Agriculture	MDR	Medium Density Residential (6-12 du/ac)	B	Business
P/OS	Parks/Public Open Space	HDR	High Density Residential (12-20 du/ac)	I	Industrial
P/QP	Public/Quasi Public	DD	Downtown District		Reservoirs
LF	Landfill	NC	Neighborhood Commercial		County Boundary
A	Airport	CC	Community Commercial		Planning Area Boundary
RR	Rural Residential (0-2 du/ac)	RC	Regional Commercial		Areas of Special Consideration
LDR	Low Density Residential (2-6 du/ac)	MU	Mixed Use		

Canal/Ditch
Railroad
Community Gateways
I-25 Interchange (Future)
Elementary School
Middle School
High School

0 0.25 0.5 1 Miles

Sources: Boulder CO GIS, Weld CO GIS, CDOT, Town of Erie

Note: This map is intended to serve as a guide for future land use patterns within the Town of Erie's Planning Area Boundary and is advisory in nature. Land Use patterns depicted on the map are generalized, recognizing that development proposals may contain a mixture of land uses and density levels which achieve the intent of the Town of Erie Comprehensive Plan. Adopted Date: Dec. 21, 2005.

The Comprehensive Plan contains guidelines for the refinement of the generalized areas depicted on the map. These guidelines should be referred to by applicants prior to the preparation of a development submittal and by Town staff, elected, and appointed officials as part of the development review process.

Town Boundary Not Shown - Refer to Zoning Map for Town Boundary

Map Revision Date: JULY 20, 2011

BOULDER COUNTY DEVELOPMENT SPREADSHEET

OBJECTID	LU	ACRES	EQR/ ACRE	EQR	DESC		AVERAGE DAY	MAXIMUM DAY	PEAK HOUR	MAX DAY GPM	ZONE 2	ZONE 3	ZONE 4A	ZONE 4B
1	OS	261.8	0			NO SERVICE					0			
2	AG	30.4	0		CALDWELL FARMS	NO SERVICE					0			
3	AG	10.3	0		HARSCH HEIGHTS	NO SERVICE					0			
4	AG	4.5	0		HARSCH HEIGHTS	NO SERVICE					0			
5	AG	149.4	0			NO SERVICE					0			
6	OS	483.0	0			NO SERVICE					0			
7	OS	134.4	0			NO SERVICE					0			
8	OS	563.8	0			NO SERVICE					0			
9	AG	68.0	0			NO SERVICE					0			
10	AG	78.1	0			NO SERVICE					0			
11	OS	137.1	0			NO SERVICE					0	0		
12	AG	0.7	0			NO SERVICE					0			
13	AG	6.1	0			NO SERVICE					0			
14	OS	265.9	0			NO SERVICE					0	0		
15	AG	112.9	0			NO SERVICE						0		
16	OS	23.3	0		BC	NO SERVICE						0		
17	AG	223.1	0			NO SERVICE					0			
18	PL	31.5	0		THERAPY HORSES	NO SERVICE					0			
19	OS	169.1	0		BC	NO SERVICE					0			
20	OS	296.4	0		BC	NO SERVICE						0		
21	AG	78.9	0		CRYSTLE VIEWS	NO SERVICE					0			
22	OS	326.7	0		BC	NO SERVICE					0	0		
23	AG	56.1	0		BC	NO SERVICE					0			
24	AG	160.9	0		BOULDER CREEK FARMS	NO SERVICE					0			
25	AG	26.2	0			NO SERVICE					0			
26	AG	197.1	0			NO SERVICE					0	0		
28	PL	242.9	0		BC	NO SERVICE					0			
29	AG	27.0	0			NO SERVICE					0			
30	AG	3.3	0			NO SERVICE					0			
31	OS	69.8	0			NO SERVICE					0			
32	OS	101.2	0			NO SERVICE						0		
33	AG	159.2	0			NO SERVICE					0			
34	OS	28.7	0			NO SERVICE						0		
35	AG	27.0	0			NO SERVICE						0		
36	AG	10.2	0			NO SERVICE					0			
37	OS	455.6	0			NO SERVICE					0			
38	RR	36.7	1	37	73 ACRES NO SERVICE		14,067	36,715	73,430	25	36715			
39	AG	43.1	0			NO SERVICE					0			
40	AG	50.2	0			NO SERVICE					0	-		
41	AG	23.1	0			NO SERVICE					0			
42	AG	21.2	0			NO SERVICE					0			
43	AG	24.7	0			NO SERVICE					0			
44	SCH	460.0	30		ALEXANDER DAWSON SCHOOL		-	-	-	0		-		
45	LDR	8.1	4	12	KENOSHA FARMS		4,598	12,000	24,000	8	12000			
46	LDR	36.3	4	63	ERIE VILLAGE		24,138	63,000	125,999	44	63000			
47	AG	13.4	0			NO SERVICE				0	-			
48	AG	76.5	0			NO SERVICE				0	-	-		
49	LDR	11.2	4	50	ERIE VILLAGE		19,157	50,000	100,000	35	50,000			
50	OS	137.9	0			NO SERVICE				0	-			
51	LDR	22.3	4	99	KENOSHA FARMS		37,931	99,000	197,999	69	99,000			
52	LDR	2.3	4	12	KENOSHA FARMS		4,598	12,000	24,000	8	12,000			
53	LDR	21.2	4	33	ERIE VILLAGE		12,644	33,000	66,000	23	33,000			
54	LDR	3.4	4	8	ERIE VILLAGE		3,065	8,000	16,000	6	8,000			
55	LDR	8.8	4	36	ERIE VILLAGE		13,793	36,000	72,000	25	36,000			
56	LDR	1.2	4	8	ERIE VILLAGE		3,065	8,000	16,000	6	8,000			
57	MU	12.2	4	43	ERIE VILLAGE		16,424	42,867	85,733	30	42,867			
58	OS	72.9	0			NO SERVICE				0	-			
59	LDR	7.9	4	33	ERIE VILLAGE		12,644	33,000	66,000	23	33,000			
60	LDR	5.5	4	24	ERIE VILLAGE		9,195	24,000	48,000	17	24,000			
61	LDR	12.6	4	26	ERIE VILLAGE		9,962	26,000	52,000	18	26,000			
62	AG	43.8	0			NO SERVICE				0	-			
63	RR	15.0	1	15	WISE HOMESTEAD PARK		5,751	15,011	30,022	10	15,011			
64	CC	3.8	3	12	WISE HOMESTEAD PARK		4,408	11,505	23,010	8	11,505			
65	RR	56.9	1			NO SERVICE				0	-			
66	RR	138.2	1	138		21 ACRES NO SER\	52,948	138,193	276,386	96	138,193			
67	AG	66.5	0			NO SERVICE				0	-			
68	AG	34.5	0			NO SERVICE				0	-			
69	AG	25.6	0			NO SERVICE				0	-			
70	AG	23.3	0			NO SERVICE				0		-		
71	RR	188.9	1	189	BROWNSVILLE		72,378	188,907	377,814	131	132,235.07	56,672.17		
72	SCH	570.0	30	19	RIE ELEMENTARY SCHOOL		6,552	17,100	34,200	12	17,100			
73	OS	108.3	0			NO SERVICE				0	-			
74	AG	34.5	0			NO SERVICE				0	-			
75	MDR	14.1	8	113			43,293	112,995	225,991	78	112,995			
76	OS	104.9	0	0		NO SERVICE				0	-			
77	B	6.9	3	21			7,897	20,611	41,223	14	20,611			
78	AG	10.9	0	0		NO SERVICE				0	-			
79	RR	16.4	1		BROWNSVILLE	NO SERVICE				0	-			
80	RR	5.6	1		BROWNSVILLE	NO SERVICE				0	-			
81	B	17.6	3	53			20,256	52,869	105,738	37	52,869			
82	RR	15.6	1		BROWNSVILLE	NO SERVICE				0	-			
83	AG	13.8	0			NO SERVICE				0	-			
84	RR	21.4	1		BROWNSVILLE	NO SERVICE				0		-		
85	RR	14.3	1		BROWNSVILLE	NO SERVICE				0		-		
86	LDR	1.9	4	8	CREEKSIDE		3,065	8,000	16,000	6	8,000			
87	LDR	0.9	4	5	CREEKSIDE		1,916	5,000	10,000	3	5,000			
88	RR	5.1	1		BROWNSVILLE	NO SERVICE				0	-	-		
89	RR	12.6	1		BROWNSVILLE	NO SERVICE				0	-			
90	RR	10.0	1		BROWNSVILLE	NO SERVICE				0	-			
91	LDR	1.3	4	8	CREEKSIDE		3,065	8,000	16,000	6	8,000			
92	B	5.0	3	15	OWNED BY TOWN		5,727	14,948	29,896	10	14,948			
93	RR	8.4	1		BROWNSVILLE	NO SERVICE				0		-		
94	RR	163.6	1		BROWNSVILLE	NO SERVICE				0	-	-		
94	RR	37.0	1	16	BAXTER FARMS		6,130	16,000	32,000	11		16,000		
95	MU	17.2	4	69	B		26,374	68,836	137,672	48	68,836			
96	LDR	74.5	4	65	NDLELIGHT RIDGE/ESTATES		24,904	65,000	129,999	45		65,000		
96	LDR	36.0	4	31	CANDLELIGHT ESTATES		11,877	31,000	62,000	22		31,000		
97	AG	113.1	0			NO SERVICE				0		-		
98	LDR	10.6	4	20	CANDLELIGHT RIDGE		7,663	20,000	40,000	14		20,000		
99	LDR	0.5	4	2	COUNTRY FIELDS		720	1,879	3,757	1		1,879		
100	LDR	0.4	4	1	COUNTRY FIELDS		570	1,486	2,973	1		1,486		
101	LDR	2.8	4	21	COUNTRY FIELDS		8,046	21,000	42,000	15		21,000		
102	LDR	8.5	4	202	MEADOW SWEET FARM		77,394	201,999	403,998	140		201,999		
103	LDR	4.5	4	0	MEADOW SWEET FARM		-	-	-	0		-		
104	LDR	8.4	4	39	COUNTRY FIELDS		14,942	39,000	78,000	27		39,000		
105	LDR	12.2	4	0	MEADOW SWEET FARM		-	-	-	0		-		
106	LDR	10.3	4	44	COUNTRY FIELDS		16,858	44,000	88,000	31		44,000		
107	LDR	4.1	4	17	COUNTRY FIELDS		6,513	17,000	34,000	12		17,000		
108	LDR	1.5	4	10	COUNTRY FIELDS		3,831	10,000	20,000	7		10,000		
109	LDR	18.2	4	61	COUNTRY MEADOWS		23,372	61,000	121,999	42		61,000		
110	AG	28.9	0			NO SERVICE				0		-		
111	LDR	5.0	4	0	MEADOW SWEET FARM		-	-	-	0		-		

BOULDER COUNTY DEVELOPMENT SPREADSHEET

OBJECTID	LU	ACRES	EQR/ ACRE	EQR	DESC	AVERAGE DAY	MAXIMUM DAY	PEAK HOUR	MAX DAY GPM	ZONE 2	ZONE 3	ZONE 4A	ZONE 4B
112	LDR	1.8	4	14	COUNTRY MEADOWS	5,364	14,000	28,000	10		14,000		
113	LDR	6.2	4	30	COUNTRY MEADOWS	11,494	30,000	60,000	21		30,000		
114	LDR	2.6	4	20	SUNWEST	7,663	20,000	40,000	14		20,000		
115	LDR	4.7	4	30	COUNTRY MEADOWS	11,494	30,000	60,000	21		30,000		
116	LDR	2.2	4	17	COUNTRY MEADOWS	6,513	17,000	34,000	12		17,000		
117	LDR	0.5	4	4	COUNTRY MEADOWS	1,533	4,000	8,000	3		4,000		
118	LDR	0.8	4	9	COUNTRY MEADOWS	3,448	9,000	18,000	6		9,000		
119	LDR	1.1	4	10	COUNTRY MEADOWS	3,831	10,000	20,000	7		10,000		
120	LDR	1.2	4	12	SUNWEST	4,598	12,000	24,000	8		12,000		
121	LDR	0.6	4	0	MEADOW SWEET FARM	-	-	-	0		-		
122	LDR	0.4	4	0	CANDLELIGHT RIDGE	-	-	-	0		-		
123	LDR	20.8	4	68	CANYON CREEK	26,054	68,000	135,999	47		68,000		
124	CC	4.9	3	15	PD	5,607	14,635	29,270	10		14,635		
125	CC	6.1	3	18	PD	7,052	18,405	36,810	13		18,405		
126	MDR	11.4	8	91	PD	34,925	91,156	182,311	63		91,156		
127	LDR	5.3	4	24	CANYON CREEK	9,195	24,000	48,000	17		24,000		
128	HDR	14.9	16	239	SR	91,630	239,153	478,306	166		239,153		
129	CC	4.8	3	15	SR	5,562	14,517	29,033	10		14,517		
130	LDR	0.8	4	6	CANYON CREEK	2,299	6,000	12,000	4		6,000		
131	LDR	341.5	4	810	RAIRIE MEADOW + SCHOOL	310,343	809,996	1,619,993	562		809,996		
131	SCH	500.0	30			-	15,000	-	10		15,000		
132	LDR	4.3	4	25	ORCHARD GLEN	9,579	25,000	50,000	17		25,000		
133	LDR	1.1	4	3	ORCHARD GLEN	1,149	3,000	6,000	2		3,000		
134	AG	143.4	0		NO SERVICE				0		-		
135	MU	29.3	4	117	PD	44,877	117,129	234,257	81		117,129		
136	AG	33.3	0		NO SERVICE				0		-		
137	AG	105.5	0		NO SERVICE				0		-		
138	LDR	3.4	4	14	ORCHARD GLEN	5,364	14,000	28,000	10		14,000		
139	LDR	9.0	4	55	CANYON CREEK	21,073	55,000	109,999	38		55,000		
140	LDR	1.7	4	11	CANYON CREEK	4,215	11,000	22,000	8		11,000		
141	LDR	2.1	4	34	ORCHARD GLEN	13,027	34,000	68,000	24		34,000		
142	LDR	1.6	4	12	CANYON CREEK	4,598	12,000	24,000	8		12,000		
143	LDR	1.9	4	11	CANYON CREEK	4,215	11,000	22,000	8		11,000		
144	LDR	8.4	4	49	CANYON CREEK	18,774	49,000	98,000	34		49,000		
145	LDR	5.2	4	23	CANYON CREEK	8,812	23,000	46,000	16		23,000		
146	LDR	1.7	4	22	CANYON CREEK	8,429	22,000	44,000	15		22,000		
147	LDR	21.6	4	63	ORCHARD GLEN	24,138	63,000	125,999	44		63,000		
148	LDR	13.1	4	75	ORCHARD GLEN	28,736	75,000	149,999	52		75,000		
149	LDR	10.3	4	38	CANYON CREEK	14,559	38,000	76,000	26		38,000		
150	LDR	3.2	4	16	CANYON CREEK	6,130	16,000	32,000	11		16,000		
151	CC	6.1	3	18	CHURCH	7,052	18,405	36,810	13		18,405		
152	OS	72.3	0		NO SERVICE				0		-		
153	LDR	4.3	4	17	CANYON CREEK	6,648	17,353	34,705	12		17,353		
155	LDR	10.6	4	42	CANYON CREEK	16,092	42,000	84,000	29		42,000		
156	LDR	4.3	4	35	CANYON CREEK	13,410	35,000	70,000	24		35,000		
157	LDR	5.6	4	24	CANYON CREEK	9,195	24,000	48,000	17		24,000		
158	LDR	7.2	4	51	CANYON CREEK	19,540	51,000	102,000	35		51,000		
159	LDR	5.1	4	21	CANYON CREEK	8,046	21,000	42,000	15		21,000		
160	LDR	4.7	4	35	CANYON CREEK	13,410	35,000	70,000	24		35,000		
161	LDR	4.2	4	9	CANYON CREEK	3,448	9,000	18,000	6		9,000		
163	CC	7.6	3	23	PD	8,729	22,782	45,563	16		22,782		
164	LDR	5.4	4	30	CANYON CREEK	11,494	30,000	60,000	21		30,000		
165	LDR	1.4	4	24	CANYON CREEK	9,195	24,000	48,000	17		24,000		
166	HDR	113.5	16	1500	AARON HARBER	574,710	1,499,993	2,999,986	1042		1,499,993		
167	MDR	53.0	8	1000	AARON HARBER	383,140	999,995	1,999,991	694		999,995		
168	AG	3.3	0		NO SERVICE				0		-		
169	MU	84.3	4	1500	AARON HARBER	574,710	1,499,993	2,999,986	1042		1,499,993		
170	PL	6.7	0		WATER TREATMENT PLANT	-	-	-	0		-		
171	RR	53.9	1	54	RANCH (79 ACRES NO SERVICE)	20,663	53,932	107,863	37		53,932		
172	MDR	53.0	8	1000	AARON HARBER	383,140	999,995	1,999,991	694		999,995		
173	OS	66.7	0		NO SERVICE				0		-		
174	OS	28.1	0		NO SERVICE				0		-		
175	AG	66.2	0		NO SERVICE				0		-	-	
176	AG	146.3	0		NO SERVICE				0		-	-	
177	OS	151.3	0		NO SERVICE				0		-		
178	OS	115.6	0		NO SERVICE				0		-		
179	AG	44.0	0		NO SERVICE				0			-	
180	RR	22.4	1	5	MARFELL LAKES	1,916	5,000	10,000	3			5,000	
181	LDR	53.5	4	181	ARAPAHOE RIDGE	69,348	180,999	361,998	126			180,999	
182	LDR	3.6	4	0	ARAPAHOE RIDGE	-	-	-	0			-	
183	LDR	4.9	4	21	ARAPAHOE RIDGE	8,046	21,000	42,000	15			21,000	
184	AG	5.1	0		NO SERVICE				0			-	
185	LDR	9.6	4	53	ARAPAHOE RIDGE	20,306	53,000	106,000	37			53,000	
186	LDR	3.6	4	24	ARAPAHOE RIDGE	9,195	24,000	48,000	17			24,000	
187	LDR	2.7	4	16	ARAPAHOE RIDGE	6,130	16,000	32,000	11			16,000	
188	LDR	5.8	4	26	ARAPAHOE RIDGE	9,962	26,000	52,000	18			26,000	
189	LDR	3.2	4	13	ARAPAHOE RIDGE	4,981	13,000	26,000	9			13,000	
191	LDR	2.2	4	11	ARAPAHOE RIDGE	4,215	11,000	22,000	8			11,000	
192	LDR	2.8	4	16	ARAPAHOE RIDGE	6,130	16,000	32,000	11			16,000	
193	LDR	7.5	4	30	ARAPAHOE RIDGE GE PARK WITH F	11,451	29,886	59,773	21			29,886	
194	LDR	5.1	4	27	ARAPAHOE RIDGE	10,345	27,000	54,000	19			27,000	
195	AG	5.1	0		NO SERVICE				0			-	
196	LDR	4.2	4	20	ARAPAHOE RIDGE	7,663	20,000	40,000	14			20,000	
197	AG	10.0	0		NO SERVICE				0			-	
198	LDR	12.0	4	49	ARAPAHOE RIDGE	18,774	49,000	98,000	34			49,000	
199	LDR	10.0	4	51	ARAPAHOE RIDGE	19,540	51,000	102,000	35			51,000	
200	MDR	2.0	8	13	ARAPAHOE RIDGE	4,981	13,000	26,000	9			13,000	
201	CC	11.1	3	33	SAFEWAY	12,802	33,414	66,827	23			33,414	
202	LDR	4.0	4	0	ARAPAHOE RIDGE	-	-	-	0			-	
203	LDR	3.3	4	0	ARAPAHOE RIDGE	-	-	-	0			-	
204	MDR	1.5	8	14	ARAPAHOE RIDGE	5,364	14,000	28,000	10			14,000	
205	MDR	1.6	8	17	ARAPAHOE RIDGE	6,513	17,000	34,000	12			17,000	
206	LDR	3.2	4	15	ARAPAHOE RIDGE	5,747	15,000	30,000	10			15,000	
207	MDR	1.8	8	16	ARAPAHOE RIDGE	6,130	16,000	32,000	11			16,000	
208	MDR	0.4	8	3	ARAPAHOE RIDGE	1,149	3,000	6,000	2			3,000	
209	MDR	1.9	8	25	ARAPAHOE RIDGE	9,579	25,000	50,000	17			25,000	
210	RR	49.2	1		NO SERVICE				0		-		
211	I	34.8	2	70	ACRES ARE STORAGE UNITS	26,695	69,674	139,349	48		69,674		
212	AG	69.5	0		NO SERVICE				0		-		
213	LDR	113.3	4	453		173,570	453,019	906,038	315		453,019		
214	LDR	24.3	4	23	TOWN OF ERIE/OS	8,812	23,000	46,000	16	23,000			
215	MU	9.8	4	97	CREEKSIDE	37,165	97,000	193,999	67	97,000			
216	LDR	1.3	4	15	CREEKSIDE	5,747	15,000	30,000	10	15,000			
217	LDR	0.8	4	3	CREEKSIDE	1,233	3,218	6,437	2	3,218			
218	LDR	1.2	4	6	CREEKSIDE	2,299	6,000	12,000	4	6,000			
219	LDR	1.5	4	8	CREEKSIDE	3,065	8,000	16,000	6	8,000			
220	SCH	550.0	30		CANYON CREEK SCHOOL	-	16,500	-	11		16,500		
221	LDR	36.1	4	52	COUNTRY FIELDS	19,923	52,000	104,000	36		52,000		
222	MDR	17.7	8	142	B	54,219	141,510	283,021	98		141,510		
223	LDR	7.7	4	32	COUNTRY FIELDS	12,260	32,000	64,000	22		32,000		
224	CC	37.4	3	112	LEGACY BANK 28.5 AC	43,045	112,348	224,695	78		112,348		
225	LDR	3.3	4	35	SUNWEST	13,410	35,000	70,000	24		35,000		

BOULDER COUNTY DEVELOPMENT SPREADSHEET

OBJECTID	LU	ACRES	EQR/ ACRE	EQR	DESC		AVERAGE DAY	MAXIMUM DAY	PEAK HOUR	MAX DAY GPM	ZONE 2	ZONE 3	ZONE 4A	ZONE 4B
226	LDR	6.4	4	45	SUNWEST		17,241	45,000	90,000	31		45,000		
227	LDR	4.6	4	31	SUNWEST		11,877	31,000	62,000	22		31,000		
228	LDR	2.6	4	14	SUNWEST		5,364	14,000	28,000	10		14,000		
229	CC	0.8	3	2			873	2,278	4,555	2	2,278			
230	MDR	22.1	8	177			67,665	176,604	353,209	123	176,604			
231	LDR	60.4	4	103	ERIE VILLAGE		39,463	103,000	205,999	72	103,000			
232	LDR	5.6	4	10	ERIE VILLAGE		3,831	10,000	20,000	7	10,000			
233	MDR	4.6	8	37	ERIE VILLAGE		14,049	36,667	73,335	25	36,667			
234	LDR	19.9	4	120			45,813	119,573	239,146	83	119,573			
235	OS	61.3	0			NO SERVICE				0	-			
236	LDR	107.2	4	643			246,525	643,429	1,286,859	447	643,429			
237	CC	11.8	3	71			27,183	70,946	141,893	49	70,946			
238	CC	0.0	3	0			-	-	-	0	-			
239	LDR	60.0	4	499	ERIE FARMS		191,187	498,998	997,995	347		498,998		
240	MU	20.0	4	80	ERIE FARMS	(AND FIRE STA	30,651	80,000	159,999	56		80,000		
241	LDR	0.0	4	23	SUNWEST NORTH		8,812	23,000	46,000	16		23,000		
242	LDR	0.0	4	22	SUNWEST NORTH		8,429	22,000	44,000	15		22,000		
243	LDR	0.0	4	28	SUNWEST NORTH		10,728	28,000	56,000	19		28,000		
244	LDR	0.0	4	14	SUNWEST NORTH		5,364	14,000	28,000	10		14,000		
245	LDR	0.0	4	14	CREEKSIDE		5,364	14,000	28,000	10	14,000			
246	LDR	0.0	4	23	SUNWEST NORTH		8,812	23,000	46,000	16		23,000		
247	OS	0.0	0	0	0	NO SERVICE				0			-	
248	OS	0.0	0	0	0		-	-	-	0		-		
249	OS	0.0	0	0	0		-	-	-	0		-		
250	MDR	0.0	8	5	VISTA POINTE	WELD COUNTY	1,916	5,000	10,000	3		5,000		
251	MDR	0.0	8	12	VISTA POINTE	WELD COUNTY	4,598	12,000	24,000	8		12,000		
252	MDR	0.0	8	6	VISTA POINTE	WELD COUNTY	2,299	6,000	12,000	4		6,000		
							4,890,388	**12,795,412**	**25,527,824**		**2,417,599**	**9,698,516**	**679,297**	

WELD COUNTY DEVELOPMENT SPREADSHEET

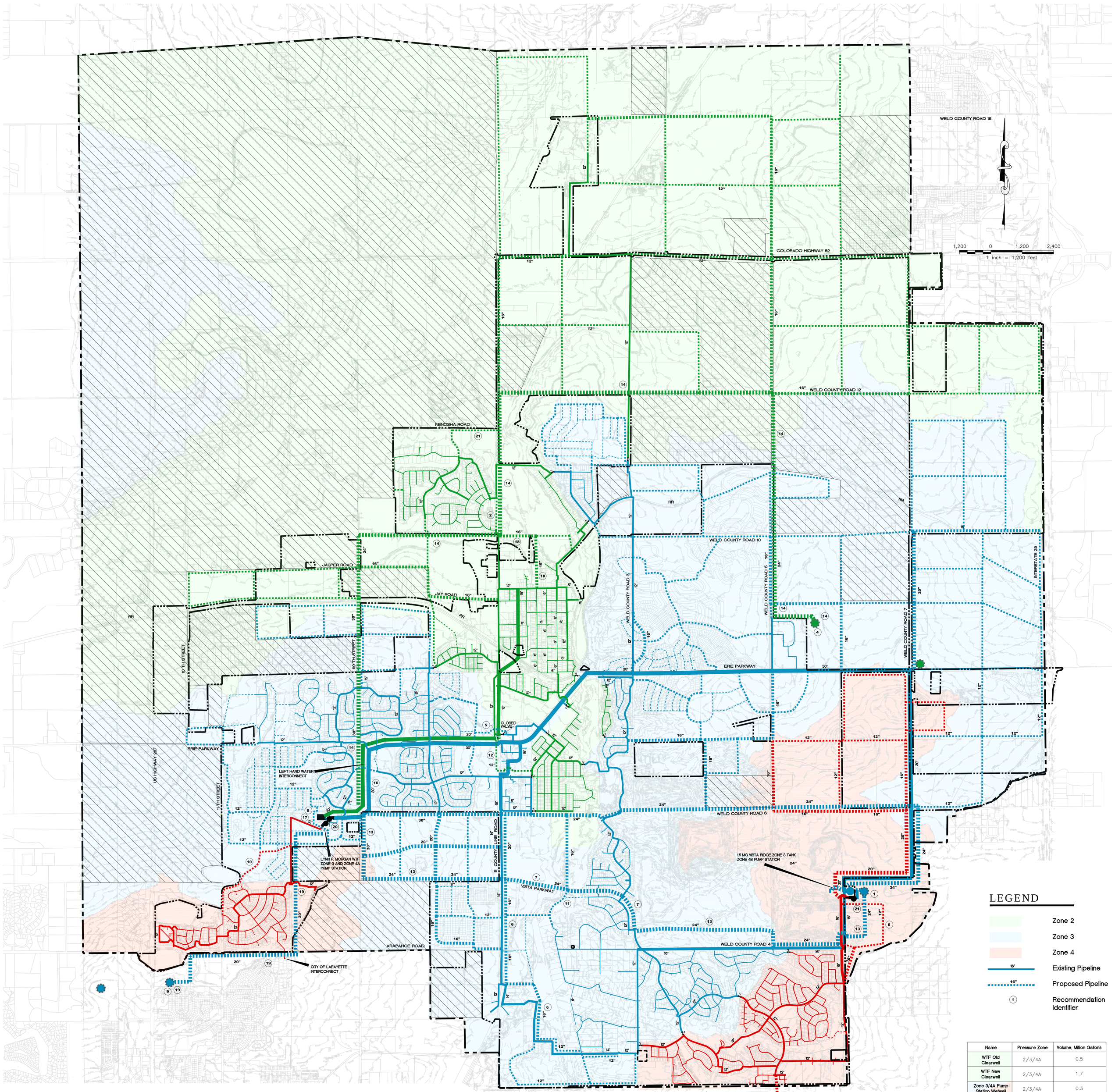
OBJECTID	LU	ACRES	EQR/ ACRE	EQR		DESC	AVERAGE DAY	MAXIMUM DAY	PEAK HOUR	MAX DAY GPM	ZONE 2	ZONE 3	ZONE 4A	ZONE 4B
1	OS	2.5	0	0.0	0		-	-	-	-	-			
2	AG	3.5	0	0.0	0		-	-	-	-	-			
3	CC	10.0	3	30.1			11,543	30,127	60,254	21	30,127			
4	CC	8.1	3	24.2			9,275	24,208	48,415	17	24,208			
5	LDR	165.0	4	660.0			252,872	659,997	1,319,994	458	659,997			
5	LDR	38.7	4	154.8		NO SERVICE				-	-			
6	CC	12.5	3	37.6	OUTSIDE		14,397	37,575	75,150	26	37,575			
7	CC	14.2	3	42.5			16,282	42,496	84,993	30	42,496			
8	RR	155.0	1	155.0	2		59,387	154,999	309,999	108	154,999			
8	RR	130.0	1	130.0		NO SERVICE				-	-			
9	AG	125.1	0	0.0	0		-	-	-	-	-			
10	CC	11.5	3	34.4			13,199	34,448	68,897	24	34,448			
11	RR	5.3	1	5.3	4	NO SERVICE					-			
12	RR	75.6	1	75.6	17	NO SERVICE					-			
13	RR	15.0	1	15.0	17	NO SERVICE					-			
14	RR	21.1	1	21.1	17	NO SERVICE					-			
15	RC	221.0	2	442.0			169,348	441,998	883,996	307	441,998			
16	RR	65.7	1	65.7	21	NO SERVICE				-	-			
17	RR	15.1	1	15.1	11	NO SERVICE				-	-			
18	RR	51.3	1	51.3			19,662	51,317	102,635	36	51,317			
19	RR	11.0	1	11.0	10	NO SERVICE					-			
20	RC	161.9	2	323.7		SECTION 10	124,040	323,744	647,488	225		323,744		
21	MU	155.7	4	622.7		SECTION 10	238,579	622,692	1,245,384	432.42		622,692		
22	RR	371.0	1	371.0	57	NO SERVICE				-	-			
23	AIR	43.2	0	0.0		NO SERVICE				-	-			
24	LDR	99.8	4	399.0		SECTION 10	152,887	399,035	798,069	277		399,035		
25	RR	14.4	1	14.4	8	NO SERVICE				-	-			
26	RR	22.9	1	22.9	12	NO SERVICE				-	-			
27	OS	27.4	0	0.0	0		-	-	-	-	-			
28	OS	3.6	0	0.0	0		-	-	-	-	-			
29	LDR	82.1	4	328.4			125,826	328,406	656,812	228		328,406		
30	RR	31.4	1	31.4	10	NO SERVICE				-		-		
31	LDR	14.6	4	58.2	21	NORTHRIDGE	22,309	58,227	116,453	40		58,227		
32	RR	53.3	1	53.3			20,414	53,280	106,560	37		53,280		
32	RR	152.1	1	152.1	23	NO SERVICE				-		-		
33	LDR	27.1	4	108.4	46	NORTHRIDGE	41,547	108,437	216,874	75	54,218.57	54,218.57		
34	LDR	8.9	4	35.5	32	NORTHRIDGE	13,596	35,486	70,971	25		35,486		
35	LDR	12.3	4	49.1	39	NORTHRIDGE	18,821	49,123	98,245	34		49,123		
36	LDR	12.5	4	50.1	22	NORTHRIDGE	19,211	50,142	100,283	35	50,142			
37	NC	12.1	2	24.2		EVENT CENTER	9,254	24,152	48,304	17	24,152			
38	MU	19.0	4	76.1		SECTION 10	29,141	76,057	152,114	53		76,057		
39	LDR	7.8	4	31.2		SECTION 10	11,955	31,203	62,405	22		31,203		
40	RR	3.0	1	3.0		SECTION 10	1,154	3,012	6,025	2		3,012		
41	LDR	3.9	4	15.7		SECTION 10	5,998	15,654	31,307	11		15,654		
42	LDR	2.3	4	9.4	3	NORTHRIDGE	3,583	9,353	18,705	6	4,676.32	4,676.32		
43	MDR	27.3	8	218.4		NORTH OLD TOWN	83,673	218,387	436,775	152	218,387			
44	LDR	24.1	4	96.4		NORTH OF CEMETARY	36,938	96,409	192,818	67		96,409		
45	LDR	303.3	4	1213.1	1788	DAYBREAK	464,797	1,213,121	2,426,242	842		1,213,121		
46	PL	0.6	0	0.0		OLD TOWN	-	-	-	-	-			
47	PL	0.1	0	0.0		OLD TOWN	-	-	-	-	-			
48	PL	0.2	0	0.0		OLD TOWN	-	-	-	-	-			
49	PL	11.8	4	47.3		BALL FIELDS	18,108	47,261	94,522	33	47,261			
50	LDR	0.7	4	2.6		OLD TOWN	1,006	2,625	5,249	2	2,625			
51	LDR	1.4	4	5.5		OLD TOWN	2,111	5,510	11,021	4	5,510			
52	MDR	0.3	8	2.3		OLD TOWN	872	2,277	4,554	2	2,277			
53	LDR	0.2	4	1.0		SAME AS 55	369	962	1,924	1	962			
54	LDR	0.6	4	529.0	529	OLD TOWN	202,681	528,998	1,057,995	367	528,998			
80	SCH	704.0	30	23.5		MIDDLE SCHOOL	8,991	23,467	46,933	16	23,467			
83	DT	0.1	3	0.2		OLD TOWN	95	247	493	0	247			
118	LDR	22.7	4	90.7	3		34,735	90,658	181,315	63		90,658		
128	MU	6.2	4	24.7	OLD TOWN/ERIE COMMONS		9,453	24,673	49,346	17		24,673		
138	MU	242.7	4	970.9		OUTSIDE 1 ACRE LHWI	372,007	970,937	1,941,874	674		776,749.69		194,187.42
139	RC	243.8	2	487.5		OUTSIDE	186,785	487,508	975,016	339		487,508		
140	RC	6.7	2	13.4		OUTSIDE	5,135	13,404	26,807	9		13,404		
142	LDR	0.7	4	2.7		OLD TOWN	1,025	2,676	5,352	2	2,676			
143	MU	0.4	4	1.6		OLD TOWN	594	1,551	3,103	1	1,551			
144	MU	0.4	4	1.7		OLD TOWN	651	1,698	3,396	1	1,698			
145	CC	28.3	3	84.9			32,533	84,911	169,823	59				84,911
146	CC	17.1	3	51.3			19,655	51,300	102,600	36		51,300		
147	MDR	16.8	8	134.1			51,366	134,065	268,131	93				134,065
148	MU	55.0	4	219.9			84,255	219,906	439,813	153		219,906		
149	MDR	28.8	8	166.0	166	GRANDVIEW	63,601	165,999	331,998	115	83,000	82,999.62		
150	LDR	183.3	4	648.0	648	DEARMIN	248,275	647,997	1,295,994	450		647,997		
151	MDR	41.0	8	243.0	243	DEARMIN	93,103	242,999	485,998	169		242,999		
151	MDR	10.0	8	80.0		DEARMIN SCHOOL	30,651	80,000	159,999	56		80,000		
152	MDR	4.6	8	30.0	30	GRANDVIEW	11,494	30,000	60,000	21		30,000		
153	RC	7.4	2	14.8		OUTSIDE	5,685	14,839	29,677	10		14,839		
154	MDR	8.1	8	60.0	60	GRANDVIEW	22,988	60,000	119,999	42	29,999.86	29,999.86		
155	MDR	2.7	8	16.0	16	GRANDVIEW	6,130	16,000	32,000	11		16,000		
156	MDR	4.6	8	36.0	36	GRANDVIEW	13,793	36,000	72,000	25		36,000		
157	PL	39.5	1	39.5		LIBRARY PLUS	15,141	39,518	79,036	27		39,518		
158	LDR	229.4	4	917.8	ACRES LEFT HAND WATER DISTRICT		351,631	917,756	1,835,511	637		91,776		825,980.07
159	LDR	43.9	4	175.6			67,273	175,584	351,167	122		140,466.96		35,116.74
160	MDR	6.5	8	30.0	30	GRANDVIEW	11,494	30,000	60,000	21		30,000		
161	MDR	6.8	8	40.0	40	GRANDVIEW	15,326	40,000	80,000	28		40,000		
162	LDR	2.0	4	12.0	12	RIE COMMONS	4,598	12,000	24,000	8	12,000			
163	RR	110.9	1	100.0	100	JTH OF DEARMIN	38,314	100,000	199,999	69		79,999.6		19,999.9
164	OS	149.8	0	0.0	0		-	-	-	-		-		
165	MDR	2.9	8	22.0	22	GRANDVIEW	8,429	22,000	44,000	15		22,000		
166	LDR	2.0	4	12.0	12	RIE COMMONS	4,598	12,000	24,000	8	12,000			
167	LDR	3.9	4	26.0	26	RIE COMMONS	9,962	26,000	52,000	18	26,000			
168	LDR	119.2	4	476.8			182,675	476,782	953,565	331				476,782
169	LDR	2.8	4	18.0	18	RIE COMMONS	6,897	18,000	36,000	12	18,000			
170	LDR	2.6	4	15.0	15	RIE COMMONS	5,747	15,000	30,000	10	15,000			
171	LDR	2.7	4	16.0	16	RIE COMMONS	6,130	16,000	32,000	11	16,000			
172	LDR	2.7	4	16.0	16	RIE COMMONS	6,130	16,000	32,000	11	16,000			
173	LDR	1.8	4	12.0	12	RIE COMMONS	4,598	12,000	24,000	8	12,000			
174	RR	80.1	1	80.1			30,702	80,133	160,267	56		16,026.70		64,106.78
175	PL	21.9	0	0.0		LANDFILL	-	-	-	-		-		
176	B	29.9	3	89.6		OUTSIDE	34,322	89,580	179,161	62		59719.6661		29857.1456
177	I	131.5	2	263		INDUSTRIAL	100,788	263,056	526,113	183		263,056		
178	MDR	2.7	8	11.0	11	VISTA POINTE	4,215	11,000	22,000	8		11,000		
179	MDR	8.4	8	30.0	30	VISTA POINTE	11,494	30,000	60,000	21		30,000		
180	RR	256.8	1	256.8			98,409	256,847	513,695	178		256,847		
181	MDR	4.1	8	17.0	17	VISTA POINTE	6,513	17,000	34,000	12		17,000		
182	CC	46.5	3	139.4			53,418	139,420	278,840	97		139,420		
183	RR	8.0	1	8.0			3,058	7,981	15,961	6				7,981
184	LDR	6.2	4	16.0	16	VISTA RIDGE	6,130	16,000	32,000	11		16,000		
185	LDR	2.6	4	20.0	20	VISTA RIDGE	7,663	20,000	40,000	14				20,000
186	LDR	3.7	4	22.0	22	VISTA RIDGE	8,429	22,000	44,000	15		22,000		
187	LDR	4.0	4	24.0	24	VISTA RIDGE	9,195	24,000	48,000	17		24,000		
188	LDR	5.1	4	33.0	33	VISTA RIDGE	12,644	33,000	66,000	23				33,000
189	LDR	3.6	4	26.0	26	VISTA RIDGE	9,962	26,000	52,000	18				26,000
190	LDR	0.6	4	3.0	3	VISTA RIDGE	1,149	3,000	6,000	2				3,000
191	OS	29.2	0	0.0		FREDERICK NO SERVICE				-	-			
192	OS	36.8	0	0.0		NO SERVICE				-	-			
193	RR	44.7	1	29.0	29	TH OF PARKL NO SERVICE				-	-			
194	RR	48.0	1	48.0		SECTION 10	18,384	47,983	95,966	33		47,983		

WELD COUNTY DEVELOPMENT SPREADSHEET

OBJECTID	LU	ACRES	EQR/ ACRE	EQR		DESC	AVERAGE DAY	MAXIMUM DAY	PEAK HOUR	MAX DAY GPM	ZONE 2	ZONE 3	ZONE 4A	ZONE 4B
195	RR	138.2	1	49.0	49	KLAND ESTA NO SERVICE				-	-	-		
196	RR	85.0	1	85.0		OUTSIDE	32,567	85,000	169,999	59	85,000			
197	LDR	11.4	4	19.0	19	NORTH RIDGE	7,280	19,000	38,000	13	9,499.96	9,499.96		
198	OS	116.0	0	0.0	0		-	-	-	-	-			
199	RR	72.0	1	72.0			27,586	72,000	143,999	50		72,000		
200	RR	24.2	1	4.0	4	OUTSIDE	1,533	4,000	8,000	3	4,000			
201	LDR	2.5	4	10.0		NORTHRIDGE	3,825	9,984	19,968	7	9,984			
202	LDR	0.1	4	1.0	1	OLD TOWN	383	1,000	2,000	1	1,000			
203	LDR	0.3	4	1.0	1	OLD TOWN	383	1,000	2,000	1	1,000			
204	MDR	5.1	8	24.0	24	TOWN/TRAILERS	9,195	24,000	48,000	17	24,000			
205	MU	1.8	4	420.0	420	OLD TOWN	160,919	419,998	839,996	292	419,998			
206	LDR	0.6	4	7.0	7	OLD TOWN	2,682	7,000	14,000	5	7,000			
207	MDR	1.2	8	7.0	7	OLD TOWN	2,682	7,000	14,000	5	7,000			
208	MDR	0.3	8	7.0	7	OLD TOWN	2,682	7,000	14,000	5	7,000			
210	MU	0.3	4	1.0		OLD TOWN	395	1,032	2,063	1	1,032			
211	LDR	1.2	4	7.0	7	OLD TOWN	2,682	7,000	14,000	5	7,000			
214	MU	0.5	4	1.8		OLD TOWN	702	1,831	3,662	1	1,831			
227	MDR	6.0	8	31.0	31	OLD TOWN	11,877	31,000	62,000	22	31,000			
228	DT	0.1	0	0.0		OLD TOWN	-	-	-	-	-			
233	LDR	2.6	4	19.0	19	RIE COMMONS	7,280	19,000	38,000	13		19,000		
234	I	29.1	2	58.2		AUSTIN INDUSTRIAL/RIGHT MOVE	22,306	58,220	116,439	40		58,220		
235	LANDFILL	390.5	0	0.0		LANDFILL	-	-	-	-				-
236	MDR	40.7	8	108.0	108	VISTA POINTE	41,379	108,000	215,999	75		108,000		
237	MDR	4.6	8	17.0	17	VISTA POINTE	6,513	17,000	34,000	12		17,000		
238	CC	68.2	3	204.7			78,443	204,735	409,471	142				204,735
239	MDR	4.7	8	41.0	41	VISTA POINTE	15,709	41,000	82,000	28		41,000		
240	PL	4.4	0	0.0		TANK	-	-	-	-				-
241	LDR	34.2	4	62.0	62	VISTA RIDGE	23,755	62,000	123,999	43		62,000		
242	LDR	15.9	4	84.0	84	VISTA RIDGE	32,184	84,000	167,999	58		84,000		
243	LDR	1.6	4	7.0	7	VISTA RIDGE	2,682	7,000	14,000	5				7,000
244	LDR	2.2	4	13.0	13	VISTA RIDGE	4,981	13,000	26,000	9				13,000
245	LDR	1.0	4	7.0	7	VISTA RIDGE	2,682	7,000	14,000	5				7,000
246	LDR	2.9	4	17.0	17	VISTA RIDGE	6,513	17,000	34,000	12				17,000
247	LDR	2.6	4	14.0	14	VISTA RIDGE	5,364	14,000	28,000	10				14,000
248	CC	53.5	3	160.6			61,530	160,592	321,184	112		160,592		
249	CC	10.5	3	31.6			12,097	31,574	63,148	22		31,574		
250	MU	59.1	4	450.0	450		172,413	449,998	899,996	312		449,998		
251	RR	20.8	1	10.0	10	POINTE ESTATES	3,831	10,000	20,000	7		10,000		
252	RR	25.1	1	13.0	13	POINTE ESTATES	4,981	13,000	26,000	9		13,000		
253	RR	21.2	1	10.0	10	POINTE ESTATES	3,831	10,000	20,000	7		10,000		
254	RC	34.0	2	67.9		SECTION 4	26,026	67,927	135,853	47	67,927			
255	CC	32.0	3	96.0			36,781	96,000	191,999	67	96,000			
256	HDR	53.2	16	851.8		SECTION 4	326,367	851,818	1,703,637	592	851,818			
257	CC	17.5	3	52.4		SECTION 4	20,076	52,399	104,798	36	52,399			
258	MDR	68.8	8	550.0		SECTION 4	210,744	550,042	1,100,084	382	550,042			
259	LDR	179.0	4	716.2		SECTION 4	274,403	716,193	1,432,386	497	716,193			
260	RR	155.5	1	155.5		SECTION 4	59,597	155,549	311,098	108	155,549			
261	CC	30.2	3	90.7		SECTION 4	34,740	90,670	181,340	63	90,670			
262	B	75.0	3	225.0			86,207	224,999	449,998	156	224,999			
263	OS	159.4	0	0.0	0		-	-	-	-	-	-		
264	RR	144.0	1	25.0	25	RLSON / OUTS	NO SERVICE			-		-		
265	MU	35.8	4	143.1			54,816	143,071	286,142	99		143,071		
266	LDR	150.3	4	601.2			230,353	601,221	1,202,443	418		601,221		
267	MU	78.1	4	312.4			119,711	312,445	624,890	217		312,445		
268	RC	355.7	2	711.3		OUTSIDE	272,538	711,325	1,422,650	494		711,325		
269	RR	70.6	1	70.6			27,040	70,574	141,147	49		70,574		
270	PL	24.1	0	3.0		CEMETARY	1,149	3,000	6,000	2		3,000		
271	SCH	750.0	30			ERIE HIGH SCHOOL	-	22,500	-	16		22,500		
272	HDR	45.1	16	721.7			276,501	721,668	1,443,337	501		721,668		
273	MDR	47.9	8	383.4			146,915	383,447	766,894	266		383,447		
274	CC	10.9	3	32.8			12,563	32,789	65,577	23		32,789		
275	HDR	33.8	16	541.6			207,500	541,575	1,083,151	376		541,575		
276	LDR	15.6	4	70.0	70	VISTA RIDGE	26,820	70,000	139,999	49				70,000
277	LDR	91.3	4	162.0	162	VISTA RIDGE	62,069	161,999	323,999	112		161,999		
278	LDR	30.1	4	73.0	73	VISTA RIDGE	27,969	73,000	145,999	51				73,000
279	LDR	21.9	4	33.0	33	VISTA RIDGE	12,644	33,000	66,000	23		33,000		
280	LDR	3.6	4	28.0	28	VISTA RIDGE	10,728	28,000	56,000	19				28,000
281	LDR	3.2	4	10.0	10	VISTA RIDGE	3,831	10,000	20,000	7				10,000
282	LDR	11.4	4	65.0	65	VISTA RIDGE	24,904	65,000	129,999	45				65,000
283	LDR	3.6	4	22.0	22	VISTA RIDGE	8,429	22,000	44,000	15				22,000
284	LDR	4.1	4	22.0	22	VISTA RIDGE	8,429	22,000	44,000	15				22,000
285	LDR	8.5	4	43.0	43	VISTA RIDGE	16,475	43,000	86,000	30		43,000		
286	LDR	5.7	4	38.0	38	VISTA RIDGE	14,559	38,000	76,000	26				38,000
287	LDR	4.9	4	22.0	22	VISTA RIDGE	8,429	22,000	44,000	15		22,000		
288	LDR	21.9	4	20.0	20	VISTA RIDGE	7,663	20,000	40,000	14		20,000		
289	LDR	3.8	4	15.0	15	VISTA RIDGE	5,747	15,000	30,000	10				15,000
290	LDR	3.1	4	22.0	22	VISTA RIDGE	8,429	22,000	44,000	15				22,000
291	LDR	2.2	4	14.0	14	VISTA RIDGE	5,364	14,000	28,000	10				14,000
292	B	12.4	3	37.1		VISTA RIDGE	14,206	37,077	74,153	26		37,077		
293	LDR	3.1	4	22.0	22	VISTA RIDGE	8,429	22,000	44,000	15				22,000
294	B	12.4	3	37.1		VISTA RIDGE	14,206	37,077	74,153	26		37,077		
295	LDR	3.7	4	26.0	26	VISTA RIDGE	9,962	26,000	52,000	18				26,000
296	LDR	4.9	4	23.0	23	VISTA RIDGE	8,812	23,000	46,000	16				23,000
297	LDR	2.8	4	19.0	19	VISTA RIDGE	7,280	19,000	38,000	13				19,000
298	LDR	21.9	4	6.0	6	VISTA RIDGE	2,299	6,000	12,000	4		6,000		
299	LDR	5.2	4	18.0	18	VISTA RIDGE	6,897	18,000	36,000	12				18,000
300	LDR	2.4	4	10.0	10	VISTA RIDGE	3,831	10,000	20,000	7				10,000
301	LDR	4.2	4	8.0	8	VISTA RIDGE	3,065	8,000	16,000	6				8,000
302	RR	1053.4	1	1053.4			403,591	1,053,374	2,106,747	732	1,053,374			
303	AG	9.0	0	0.0	0	NO SERVICE					-			
304	RR	61.0	1	13.0	13	NO SERVICE					-			
305	AG	61.6	0	1.0	1		383	1,000	2,000	1	1,000			
306	AG	0.9	0	0.0	0	NO SERVICE					-			
307	RR	3.0	1	3.0	0	NO SERVICE					-			
308	OS	126.1	0	0.0		45 ACRES ARE FREDERICK	-	-	-	-	-			
309	RR	4.2	1	1.0	1		383	1,000	2,000	1	1,000			
310	CC	60.0	3	180.0			68,965	179,999	359,998	125	179,999			
311	AG	142.7	0	0.0	0		-	-	-	-	-			
312	AG	28.4	0	0.0	0	COMMERCIAL	-	-	-	-	-			
313	PL	4.2	0	0.0		OLD TOWN	-	-	-	-	-			
314	PL	1.4	0	0.0		OLD TOWN	-	-	-	-	-			
315	PL	0.5	0	0.0		OLD TOWN	-	-	-	-	-			
316	LDR	3.5	4	0.0		OLD TOWN	-	-	-	-	-			
317	LDR	1.5	4	0.0		OLD TOWN	-	-	-	-	-			
318	PL	0.7	0	34.0	34	OLD TOWN RETIREMENT	13,027	34,000	68,000	24	34,000			
319	LDR	1.4	4	0.0		OLD TOWN	-	-	-	-	-			
320	PL	11.8	0	24.0	24	OLD TOWN RETIREMENT	9,195	24,000	48,000	17	24,000			
321	LDR	1.5	4	0.0		OLD TOWN	-	-	-	-	-			
322	LDR	1.1	4	0.0		OLD TOWN	-	-	-	-	-			
323	LDR	1.3	4	0.0		OLD TOWN	-	-	-	-	-			
324	LDR	0.8	4	0.0		OLD TOWN	-	-	-	-	-			
325	LDR	0.8	4	0.0		OLD TOWN	-	-	-	-	-			
326	MU	0.3	4	0.0		OLD TOWN	-	-	-	-	-			
327	LANDFILL	325.9	0	0.0	0	LANDFILL	-	-	-	-		-		
328	I	110.4	2	220.8		INDUSTRIAL	84,585	220,767	441,533	153		220,767		
329	OS	34.6	0	0.0	0		-	-	-	-		-		
330	MDR	6.5	8	21.0	21	VISTA POINTE	8,046	21,000	42,000	15		21,000		
331	MDR	9.1	8	29.0	29	VISTA POINTE	11,111	29,000	58,000	20		29,000		

WELD COUNTY DEVELOPMENT SPREADSHEET

OBJECTID	LU	ACRES	EQR/ ACRE	EQR		DESC	AVERAGE DAY	MAXIMUM DAY	PEAK HOUR	MAX DAY GPM	ZONE 2	ZONE 3	ZONE 4A	ZONE 4B
332	MDR	10.8	8	35.0	35	VISTA POINTE	13,410	35,000	70,000	24		35,000		
333	RR	144.2	1	72.0	72	\ POINTE ESTATES	27,586	72,000	143,999	50		72,000		
334	MDR	4.3	8	15.0	15	VISTA POINTE	5,747	15,000	30,000	10		15,000		
335	AIR	105.7	0	0.0		AIRPORT	-	-	-	-		-		
336	MDR	2.4	8	9.0	9	VISTA POINTE	3,448	9,000	18,000	6		9,000		
337	RR	13.8	1	7.0	7	\ POINTE ESTATES	2,682	7,000	14,000	5		7,000		
338	RR	92.0	1	46.0	46	\ POINTE ESTATES	17,624	46,000	92,000	32		46,000		
339	AG	683.1	0	10.0	10		3,831	10,000	20,000	7	10,000			
340	RR	157.3	1	26.0	26		9,962	26,000	52,000	18	26,000			
341	PL	683.1	3	5.7	5.7	WWTP	2,184	5,700	11,400	4	5,700			
342	RR	144.9	1	144.9			55,503	144,862	289,725	101	144,862			
343	RR	28.2	1	3.0	3		1,149	3,000	6,000	2	3,000			
344	RC	32.3	2	64.6			24,733	64,552	129,104	45				64,552
345	RC	8.2	2	16.5			6,314	16,479	32,957	11				16,479
346	LDR	82.0	4	328.0			125,670	327,998	655,997	228		327,998		
347	CC	0.0	3	0.0			-	-	-	-		-		
348	PL	8.9	0	3.0		PUBLIC SERVICE	1,149	3,000	6,000	2	3,000			
349	MU	3.4	4	13.6			5,211	13,600	27,200	9	13,600			
350	OS	0.0	0	0.0	0		-	-	-	-	-			
351	MDR	0.0	8	49.0	49	VISTA RIDGE	18,774	49,000	98,000	34				49,000
352	LDR	152.0	4	60.0	60	RIE COMMONS	22,988	60,000	119,999	42	60,000			
353	LDR	0.0	4	24.0	24	RIE COMMONS	9,195	24,000	48,000	17	24,000			
354	LDR	0.0	4	18.0	18	RIE COMMONS	6,897	18,000	36,000	12	18,000			
355	LDR	0.0	4	18.0	18	RIE COMMONS	6,897	18,000	36,000	12	18,000			
356	LDR	0.0	4	18.0	18	RIE COMMONS	6,897	18,000	36,000	12	18,000			
357	LDR	0.0	4	17.0	17	RIE COMMONS	6,513	17,000	34,000	12	17,000			
358	LDR	0.0	4	22.0	22	RIE COMMONS	8,429	22,000	44,000	15	22,000			
359	LDR	0.0	4	22.0	22	RIE COMMONS	8,429	22,000	44,000	15	22,000			
360	LDR	0.0	4	24.0	24	RIE COMMONS	9,195	24,000	48,000	17	24,000			
361	LDR	0.0	4	18.0	18	RIE COMMONS	6,897	18,000	36,000	12	18,000			
366	CC	22.5	3	67.4		ERIE COMMONS	25,827	67,410	134,819	47	67,410			
367	LDR	26.5	4	77.0	77	RIE COMMONS	29,502	77,000	153,999	53	77,000			
368	MDR	9.4	8	75.0		ERIE COMMONS	28,751	75,040	150,079	52	75,040			
370	NC	12.8	2	25.7		ERIE COMMONS	9,839	25,680	51,360	18	25,680			
371	NC	6.0	2	12.0		ERIE COMMONS	4,598	12,000	24,000	8	12,000			
373	NC	2.3	2	4.5		ERIE COMMONS	1,732	4,520	9,040	3	4,520			
374	LDR	5.3	4	10.0	10	RIE COMMONS	3,831	10,000	20,000	7	10,000			
375	LDR		4	21.0	21	RIE COMMONS	8,046	21,000	42,000	15	21,000			
376	LDR		4	25.0	25	RIE COMMONS	9,579	25,000	50,000	17	25,000			
381	OS	196.6	0	0.0	0		-	-	-	-		-		-
382	MDR	0.0	8	43.0	43	VISTA RIDGE	16,475	43,000	86,000	30				43,000
383	MDR	0.0	8	20.0	20	VISTA RIDGE	7,663	20,000	40,000	14				20,000
384	MDR	0.0	8	20.0	20	VISTA RIDGE	7,663	20,000	40,000	14				20,000
385	LDR	89.0	4	52.0	52	VISTA RIDGE	19,923	52,000	104,000	36				52,000
386	MDR	0.0	8	76.0	76	VISTA RIDGE	29,119	76,000	151,999	53				76,000
387	MDR	0.0	8	26.0	26	VISTA RIDGE	9,962	26,000	52,000	18				26,000
388	MDR	0.0	8	0.0	0	VISTA RIDGE	-	-	-	-				-
389	MDR	0.0	8	78.0	78	VISTA RIDGE	29,885	78,000	155,999	54				78,000
390	CC	23.1	3	69.4		VISTA RIDGE	26,606	69,440	138,881	48				69,440
394	LDR	4.2	4	20.0	20	VISTA RIDGE	7,663	20,000	40,000	14				20,000
395	LDR	2.4	4	9.0	9	VISTA RIDGE	3,448	9,000	18,000	6				9,000
396	LDR	61.4	4	68.0	68	VISTA RIDGE	26,054	68,000	135,999	47				68,000
397	PL	1.3	2	2.7		VISTA RIDGE	1,030	2,687	5,375	2				2,687
398	RC	3.7	2	7.5		VISTA RIDGE	2,872	7,497	14,994	5				7,497
399	LDR	23.0	4	15.0	15	VISTA RIDGE	5,747	15,000	30,000	10				15,000
399	SCH	570.0	30			BLACKROCK ELEM	-	17,100	-	12				17,100
400	CC	33.4	3	100.1		BONANZA AND 7TH	38,369	100,142	200,284	70				100,142
401	LDR	27.3	4	42.0	42	VISTA RIDGE	16,092	42,000	84,000	29				42,000
402	LDR	4.5	4	31.0	31	VISTA RIDGE	11,877	31,000	62,000	22				31,000
403	HDR	0.0	16	180.0	180	VISTA RIDGE	68,965	179,999	359,998	125				179,999
404	HDR	0.0	16	180.0	180	VISTA RIDGE	68,965	179,999	359,998	125				179,999
405	HDR	0.0	16	180.0	180	VISTA RIDGE	68,965	179,999	359,998	125				179,999
406	MDR	13.5	8	108.0			41,379	108,000	215,999	75	108,000			
407	LDR	74.0	4	296.0			113,409	295,999	591,997	206	295,999			
408	NC	1.1	2	2.2		ERIE COMMONS	858	2,240	4,480	2	2,240			
409	OS	0.0	0	0.0	0		-	-	-	-	-			
410	LDR	24.9	4	47.0	47	RIE COMMONS	18,008	47,000	94,000	33	47,000			
411	LDR		4	18.0	18	RIE COMMONS	6,897	18,000	36,000	12	18,000			
412	LDR		4	18.0	18	RIE COMMONS	6,897	18,000	36,000	12	18,000			
413	LDR	6.0	4	24.0		ERIE COMMONS	9,195	24,000	48,000	17	24,000			
414	LDR	0.0	4	6.0	6	RIE COMMONS	2,299	6,000	12,000	4	6,000			
415	LDR	0.0	4	6.0	6	RIE COMMONS	2,299	6,000	12,000	4	6,000			
416	LDR	0.0	4	22.0	22	RIE COMMONS	8,429	22,000	44,000	15	22,000			
417	LDR	13.5	4	54.0		ERIE COMMONS	20,690	54,000	108,000	37	54,000			
418	LDR	0.0	4	5.0	5	RIE COMMONS	1,916	5,000	10,000	3	5,000			
419	CC	33.1	3	99.2		COAL CREEK CENTER	38,023	99,240	198,479	69		99,240		
				27514.9			**10,080,546**	**26,349,825**	**52,620,450**	**18,298**	**8,772,372**	**13,487,837**	**-**	**4,089,613**



Name	Pressure Zone	Volume, Million Gallons
WTF Old Clearwell	2/3/4A	0.5
WTF New Clearwell	2/3/4A	1.7
Zone 3/4A Pump Station Wetwell	2/3/4A	0.3
Zone 3 Tank	3/4B	1.5

Recommended Immediate Improvements	Size/Quantity	Estimated Cost
1. Zone 3 Storage	4 MG	$3,400,000
2. CW Bixler Connection	1,250	$150,000
3. Zone 4B Storage Tank Land and Easements	3± acres	$150,000
4. Zone 2 Tank Land Acquisition	3± acres	$150,000
5. 20" Connection	100 lf	$30,000
6. County Line AC Pipe	8,700 lf	$1,110,000
7. Zone 3 Transmission (1st Phase)	6,100 lf	$3,750,000
8. Expansion of WTF, including pretreatment upgrades	6.75 MGD	$7,920,000
9. Land for Zone 3 Tank	3± acres	$150,000
10. Zone 4A Reliability	4,400 lf	$530,000
11. Cessna Drive	2,100 lf	$250,000
12. Austin Avenue Connection	2,000 lf	$250,000
13. Zone 3 Transmission (2nd Phase)	22,000 lf	$6,050,000
Construction Costs.		**$23,890,000**
Add 25% for contingencies, engineering, inspection, legal and administrative costs.		$5,973,000
Subtotal - Project Budget		**$29,863,000**

Recommended 2025 Improvements	Size/Quantity	Estimated Costs	Project Trigger Points
14. Zone 2 Storage Tank and Transmission Main	2.5 MG 9,800/34,000	$2,400,000 $2.7M/$7.65M	Zone 2/4A Max Day = 4 MGD
15. Zone 4B Storage Tank and Transmission	0.5 MG/ 7,000	$1,200,000 $1,000,000	Acquisition of Site
16. Orchard Glen Connection	1,000	$125,000	Approaching Buildout of Flatiron Meadows
17. New Water Treatment	5.35 MGD	$7,500,000	DU = 16,000 Max Day = 16 MGD
18. Holbrook Waterline	3,400	$510,000	Zone 2/4A Max Day = 5 MGD
19. Zone 3 Storage and Transmission	4 MG/ 11,000	$3,400,000 $2,200,000	Zone 3/4B Max Day = 17.5 MGD
20. Zone 3 Pump/Controls	4,750 gpm	$80,000	Zone 3/4B Max Day = 11 MGD
21. Kenosha Connection	1,400	$170,000	Completion of Zone 2 Transmission
Construction Costs.		**$28,935,000**	
Add 25% for contingencies, engineering, inspection, legal and administrative costs.		$7,234,000	
Subtotal - Project Budget		**$36,169,000**	

Pressure Zone Boundaries			
Zone	Hydraulic Grade Line (ft above MSL)	Service Elevations (ft above MSL)	Service Pressures (psi)
2	5,175	4,950–5,070	97–45
3	5,313	5,070–5,210	105–45
4A	5,420	5,210–5,300	91–52
4B	5,420	5,210–5,300	91–52

TOWN OF ERIE
1874

WATER SYSTEM MASTER PLAN

MERRICK & COMPANY
McLaughlin Water Engineers
A DIVISION OF MERRICK & COMPANY

SEPTEMBER 2013