HYDRAULIC MODEL UPDATE REPORT

KENT COUNTY WATER AUTHORITY WEST WARWICK, RHODE ISLAND



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Attachment No. 1 – Model Node and Pipeline Plan (under separate cover)

1.1 Project Background

C&E Engineering Partners, Inc. (C&E) in June 2004 completed a computerized hydraulic model of the Kent County Water Authority's (KCWA) Supply, Transmission and Distribution System. The project consisted of the development of an accurate and calibrated computerized hydraulic model of the major infrastructure facilities and pipelines of the water transmission and distribution system.

All of the major facilities of the KCWA water distribution system are represented in this hydraulic model. This includes all sources of supply (including wholesale interconnections), booster pumping and storage facilities, well stations, pressure reducing valve stations, and transmission and distribution pipelines. Information describing the characteristics of each of the water system facilities was acquired from available records of the KCWA and from field surveys of infrastructure facilities. This also included information derived from KCWA staff during development of the model to verify system geometry including water main layout and configuration, size, age, material, etc. A general overview of the operation of the system including pump sequencing, booster pump operation, manual and automatic operation of facilities, etc. was also obtained from KCWA staff in order to properly establish initial operating conditions for model scenarios.

Since completion, the hydraulic model has been successfully utilized to complete various studies for the KCWA water supply system involving future planning, infrastructure sizing, development analysis, future demand analysis, and evaluation of fire flow capability.

At the request of the KCWA, C&E has performed an update to the computer model whereby new and replaced infrastructure components, changes in operation, etc. were included in the computer model. This included incorporating all water facility improvement(s) that have taken place since completion of the original model and updating the geometry of the hydraulic model. It should be noted that this update did not include an update of consumer demand data, which is typically performed at 3-5 year intervals and is considered premature at this time as it will not affect the model results. The update did however review the major users (i.e. those singly identified consumers that use upwards of several million gallons of water per year) and the water demand for these users was updated accordingly.

In addition, all of the water mains that were incorporated in the model update were also included in the spreadsheets that represent the full system pipeline database maintained by the KCWA as part of the Clean Water Infrastructure Replacement Plan (CWIRP). This is provided under separate cover. This pipeline database is utilized by the KCWA to assist in identifying pipeline infrastructure replacement projects and provides for a comprehensive cataloging of all pipelines in the water system by location, size, material, year of installation and length.

1.2 Purpose and Scope

The performance of this computer hydraulic model update consisted of the following specific tasks:

- Meet with KCWA staff to gather information relating to water system improvements including obtaining copies of available record drawings, design plans and sketches for water system improvement projects.
- Review with the KCWA staff any changes to system operations and procedures that may alter the manner in which the water system is operated and maintained.
- Obtain the most current list of KCWA Board approved projects and include in the model update. These projects are included (even if not yet constructed or operational) as they are considered to be an allocation of water demands and should be considered when performing future analysis with the model. Appropriately, the consumer demands associated with these developments are also included.
- Modify the hydraulic model geometry and pipeline and junction node database files. This was performed consistent with the naming and identification sequence that was developed as part of the original model.

- Review the most recent consumer demand data for the large water users in the model database and revise accordingly in the model demand database file.
- Perform average day, maximum day and peak hour simulations with the latest modifications to the system geometry and system operational changes.
- Update the model Node and Pipeline Plan and provide hard copy of the plan at suitable scale which is color-coded by pipe diameter.
- Prepare a report that presents the work completed and results of completed computer modeling. Summarize the update and modifications to the hydraulic model including results presentation and summary for each scenario.

It is intended that this updated hydraulic model will accurately depict the Average Day, Maximum Day, and Peak Hour demand conditions of the KCWA existing water supply and distribution system.

2.1 General Service Area Description

The KCWA serves customers in the Towns of Coventry, East Greenwich, West Greenwich, West Warwick and the City of Warwick. In addition, the KCWA serves customers in isolated areas of Cranston, North Kingston, and Scituate. There are approximately 26,000 service accounts (including residential, commercial/industrial, and governmental users) in these locales. Two primary sources of water supply for the KCWA system are wholesale interconnections through Providence Water and the City of Warwick (which also receives water from Providence Water) and groundwater from wellfields that are owned and operated by KCWA.

KCWA's existing piping system consists of approximately 377 miles of water main with pipe sizes ranging from 2-inches to 24-inches in diameter (exclusive of customer service connections). For purposes of the model, transmission mains are defined as water mains of 16-inches or greater in diameter.

Elevations throughout the KCWA water system range from 15 feet Mean Sea Level (MSL) along coastal areas to 400 feet MSL in West Greenwich in the southwestern portion of the system. There are two (2) main transmission booster pump stations and six (6) system booster pump stations in the KCWA system. The transmission pump stations boost water from the wholesale interconnections into the system while the system booster pump stations increase pressure in localized areas with high elevations to prevent these areas from experiencing low pressure problems.

Based on historical data, the KCWA serves a residential population of approximately 70,000 people. A total of twenty (20) of the largest water consumers (i.e. consumers that use upward of several million gallons of water or greater per year) were identified and included in the original model. A majority of the large users consist of residential entities (trailer parks, condominium associations, etc.), large industrial enterprises, a hospital, laundromats, etc.

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2.2 Distribution and Transmission Pipeline Updates

C&E met with KCWA staff to identify those water mains that have been abandoned or replaced as part of the ongoing Infrastructure Replacement Plan. In addition, new water mains, which have been installed as part of the Capital Improvement Program, were also identified. Information relating to the location, size, length, interconnection of the main into the system, etc. were obtained from available record drawings, design plans, sketches, etc. This information was then utilized to update the geometry of the hydraulic model in the computer model. Pipelines that were added to the system were also included in the hydraulic model database and pipelines that were removed from the system were completely removed from the hydraulic model database. The following represents the significant changes in pipeline infrastructure broken down by City and Town that was updated in the geometry of the hydraulic model.

COVENTRY			
LOCATION	DESCRIPTION	FROM	ТО
Sandy Bottom Rd. (Bridge)	Replaced 111 feet of 8" CI pipe with 8" DI pipe	Main St.	South on Sandy Bottom Rd.
Howard Ave.	Replaced 100 feet of 6" CI pipe with 8" DI pipe	Mumford St.	Birch St.
Pulaski St.	Replaced 2,300 feet of 6" CI pipe with 12" DI pipe	Washington St.	WW Town Line
Whitford St.	Replaced 360 feet of 2" PVC pipe with 8" DI pipe	Pulaski St.	Washington St.
	Installed 450 feet of 8" DI pipe	Pulaski St.	Washington St.
Colvintown Rd.	Installed 6,850 feet of 8" DI pipe	Meadowbrook Farm Rd.	Hope Furnace Rd.
Clarke Rd.	Installed 655 feet of 20" DI pipe	Clarke Rd.	Knotty Oak Rd.
Knotty Oak Rd.	Replaced 9,584 feet of 20" AC pipe with 20" DI pipe	Clarke Rd.	Gervais St.
Gervais St.	Installed 4,121 feet of 20" DI pipe	Knotty Oak Rd.	Blackrock Rd.
	Replaced 3,747 feet of 8" AC pipe with 12" DI pipe	Knotty Oak Rd.	Blackrock Rd.
Blackrock Rd.	Replaced 787 feet of 8" AC pipe with 12" DI pipe	Gervais St.	Boston St.
	Removed 1,672 feet of 4" CI pipe,	Fairview Ave.	Congdon St.
	Replaced 3,723 feet of 8" AC pipe with 24" DI pipe	Hill St.	Fairview Ave.
	Installed 6,615 feet of 24" DI pipe	Congdon St.	Hornbeam Rd.
Hill St.	Replaced 4,336 feet of 8" AC pipe with 24" DI pipe	Howard Ave.	Blackrock Rd.
	Installed 1,674 feet of 24" DI pipe	Colvin St.	Howard Ave.

CRANSTON			
LOCATION	DESCRIPTION	FROM	ТО
Exchange St.	Replaced 290' 8" CI pipe with 8" DI pipe	Searle Ave.	Wilbur Ave.
Vinton Ave.	Replaced 1,300' 6" CI pipe with 8" DI pipe,	Searle Ave.	Harrison Ave.
	Installed 300' new 8" DI pipe	Harrison Ave.	Oriole Ave.
Turner Ave.	Replaced 1,920' 6" CI pipe with 8" DI pipe	Cranston St.	Searle Ave.
Olive Ave.	Replaced 250' 6" AC pipe with 8" DI pipe,	Angell Ave.	Turner Ave.
	Installed 240' new 8" DI pipe	Turner Ave.	Vinton Ave.
Searle Ave.	Replaced 650' 6" AC pipe with 8" DI pipe,	Lincoln Park Ave.	Vinton Ave.
	Installed 510' new 8" DI Pipe	Angell Ave.	Turner Ave.
Wheelock Ave.	Replaced 150' 6" AC pipe with 8" DI pipe,	Searle Ave.	Wilbur Ave.
	Installed 320' new 8" DI pipe	Searle Ave.	Wilbur Ave.
Angell Ave.	Replaced 1,640' 6" AC pipe with 8" DI pipe	Cranston St.	Searle Ave.
Harrison Ave.	Replaced 480' 6" AC pipe with 8" DI pipe	Angell Ave.	Vinton Ave.
Oriole Ave.	Replaced 750' 6" AC pipe with 8" DI pipe	Vinton Ave.	Lincoln Park Ave.

EAST GREENWICH			
LOCATION	DESCRIPTION	FROM	ТО
Courthouse Ln.	Replaced 175' 4" CI pipe with 6" DI pipe	Main St.	Pierce St.
First Ave.	Replaced 80' 10" AC pipe with 12" DI pipe	Cliff St.	Second St.
Main St.	Replaced 1,360' 10" CI pipe with 10" DI pipe,	London St.	Vine St.
	Replaced 1,300' 10" AC pipe with 10" DI pipe,	Cedar Ave.	Sixth Ave.
	Replaced 225' 10" CI pipe with 10" DI pipe	Vine St.	Sixth Ave.
Middle Rd. (Bridge) Replaced 280' 12" Steel pipe with 12" Steel pipe		Spring Valley Dr.	Cindy Ann Dr.
Vine St.	Replaced 175' 1" PE pipe with 6" DI pipe	Marlborough St.	Crompton Ave.
Proctor Ave.	Installed 172' new DI pipe	Spring St.	Hyland Ave.

SCITUATE			
LOCATION	DESCRIPTION	FROM	ТО
Seven Mile Rd.	Replaced 1,200 feet of 16" AC pipe with 16" DI pipe	Hope Rd.	Seven Mile Rd. Reservoirs
	Replaced 45 feet of 16" AC pipe with 12" DI pipe	Hope Rd.	Hope Ave.
Hope Ave.	Installed 1,980 feet of 24" DI pipe	Clinton Ave.	Main St.
Main St.	Installed 5,151 feet of 24" DI pipe	Clarke Rd.	Hope Ave.
Colvin St.	Installed 1,250 feet of 24" DI pipe	Clarke Rd.	Hill St.
Replaced 2,871 feet of 20" AC pipe with 24" DI pipe		Clarke Rd.	Jackson Flat Rd.
Jackson Flat Rd.	Installed 85 feet of 24" DI pipe	Colvin St.	Clinton Ave.
Clinton Ave.	Replaced 886 feet of 20" AC pipe with 24" DI pipe	Jackson Flat Rd.	Clinton Ave. PS
	Installed 1,387 feet of 24" DI pipe	Clinton Ave. PS	Hope Ave.

WARWICK			
LOCATION	DESCRIPTION	FROM	ТО
Love Ln.	Replaced 441 feet of 8" CI pipe with 12" DI pipe	Cowesett Rd.	Bay View Ave.
	Replaced 1,034 feet of 8" AC pipe with 12" DI pipe	Cowesett Rd.	Bay View Ave.
Creamer Ave.	Replaced 15 feet of 6" AC pipe with 6" DI pipe	Gerald St.	East on Creamer Ave.
Shattock Ave.	Installed 241 feet of 6" DI pipe	Arnolds Neck Dr.	Hallworth Dr.

WEST WARWICK				
LOCATION	DESCRIPTION	FROM	ТО	
	Replaced 178 feet of 2" Galvanized pipe with 6" DI			
Highland Ave.	pipe	Pleasant St.	Douglas St.	
Main St. (Clyde Bridge)	Replaced 64 feet of 10" CI pipe with 10" DI pipe	Maple Ave.	East Main St.	
	Replaced 357 feet of 2" Galvanized pipe with 8" DI			
Hay St.	pipe	Junior St.	North on Hay St.	
Robinson Way	Replaced 1,475 feet of 6" AC pipe with 8" DI pipe	Orrin St.	Pulaski St.	
Installed 255 feet of 8" DI pipe Orrin St.		Pulaski St.		
Harbour Ave.	Installed 550 feet of 8" DI pipe	Bell St.	North on Harbour Ave.	
Moretti St.	Replaced 300 feet of 6" AC pipe with 8" DI pipe	Robinson Way	Pawtuxet Ter.	
	Replaced 450 feet of 2" Galvanized pipe with 12" DI			
Pawtuxet Ter.	pipe	West Warwick Ave.	Harbour Ave.	
Replaced 2,300 feet of 6" AC pipe with 12" DI pipe Pul		Pulaski St.	Bleach Ave.	
Replaced 100 feet of 8" AC pipe with 12" DI pipe		Bleach Ave.	Matteson Ave.	
	Installed 150 feet of 12" DI pipe	Matteson Ave.	Harbour Ave.	
Pulaski St.	Replaced 3,700 feet of 6" CI pipe with 12" DI pipe	Main St.	Coventry Town Line	
Pine St.	Installed 320 feet of 6" DI pipe	Sunset Ave.	Sunrise Ave.	

2.3 **Pressure Zone Updates**

The existing KCWA water distribution system is divided into eight (8) distinct pressure zones operating at varying hydraulic pressure gradients and five (5) of which service the majority of the KCWA service territory. These five (5) pressure zones are as follows:

- Low Service (334 foot) Pressure Gradient
- Reduced Low Service (280 foot) Pressure Gradient
- High Service (500 foot) Pressure Gradient
- Reduced High Service (430 foot) Pressure Gradient
- Read School House Road (430 foot) Pressure Gradient

There also exist three (3) pressure service areas that provide service to isolated areas of the system and include the following:

- Warwick Tanks (231 foot) Pressure Gradient
- Oaklawn Service (231 foot) Pressure Gradient
- Hope Road Booster Service (510 foot) Pressure Gradient

Since completion of the model, a new ninth pressure zone was created which is supplied directly from the Low Service Pressure Gradient. The new pressure zone isolates the area in and around the existing Tiogue Water Storage Tank that has an overflow elevation of 350 feet, which is approximately 16 feet higher than the overflow of the remaining existing tanks in the Low Service Pressure Gradient. The new pressure zone is roughly defined as the area located to the north of Tiogue Avenue between Pembroke Lane and Wesleyan Avenue and to the south of Tiogue Avenue between Ferris Drive and North Road.

A total of fifty (50) junction nodes and their corresponding pipe sections were converted to this new pressure zone. A booster pump station located in proximity to the tank, which was designed to boost water from the Low Service into the Tiogue Tank pressure zone, was also installed. This duplex booster station contains two pumps each with a rated capacity of 400 gpm at 42 feet TDH and was incorporated into the model. Control of the pump(s) is by the water level in the Tiogue Tank.

2.4 Sources of Supply Updates

The KCWA maintains three (3) wellfields within its water supply and distribution system and two (2) primary interconnections that supply one hundred percent of the source water to the system. These well fields include the Mishnock Wells, the Spring Lake Well and the East Greenwich Well that are owned and operated by the Authority. The two (2) interconnections include the Clinton Avenue Booster Pump Station, which is supplied from Providence Water and the Bald Hill Booster Pump Station, which is supplied from the City of Warwick (indirectly from Providence Water). It should also be noted that the Clinton Avenue Pump Station is under construction for the rehabilitation to increase the pumping capacity to the Low Service Gradient from 12 MGD to 22 MGD. The new facility will be on line in June 2006 and the improvements to the pumping supply have been included in this update. The improvements that involve installing the two (2) new Read School House Road pumps in the Clinton Avenue Booster Pump Station are not included in this update as it will be dependent upon the construction of related infrastructure (i.e. new tank and water mains).

KCWA personnel have also indicated that the Mishnock Wells have been taken out of service due to water quality issues and the Spring Lake Well has been taken out of service for well reconstruction / redevelopment. These well stations are currently not utilized in any of the hydraulic model simulations and will continue to remain as such in the model until further notice from the KCWA. The following table describes the capacity of each supply source (wells and pump stations) and the total supply available to the water system. The Spring Lake and Mishnock Wells are included as it is anticipated that they will be returned to service in a timely manner. It should be noted that all sources directly supply water to the Low Service Gradient.

SUPPLY SOURCE	PUMP / WELL CAPACITY	SUPPLY CAPACITY
Serrer Soekee		IN GPM (MGD)
Mishnock Wells	1 at 370 gpm 1 at 700 gpm	1,070 gpm (1.54 MGD)
Spring Lake/Coventry Well	1 at 350 gpm	350 gpm (0.50 MGD)
East Greenwich Well ^(b)	1 at 1,700 gpm	1,100 gpm (1.58 MGD)
Clinton Avenue Pump Station ^(a)	5 at 3,820 gpm	15,280 gpm (22.0 MGD)
Bald Hill Road Pump Station ^(a, b)	3 at 2,400 gpm 1 at 2,100 gpm	5,000 gpm (7.20 MGD)
TOTAL SUPPLY		22,800 gpm (32.8 MGD)

TRANSMISSION SUPPLY SYSTEM PUMPING STATIONS

^a One of the largest pumps at these facilities is considered to be an in line spare / backup and is not considered in the total available supply capacity.

^b Pump station capacity limited due to pump curve head conditions.

2.5 Interconnection Updates

The primary source of water supply for the KCWA is through wholesale interconnections through Providence Water and the City of Warwick. The wholesale interconnections directly through Providence Water include the Clinton Avenue Pump Station and the Oaklawn Avenue Interconnection. The Oaklawn Avenue Interconnection provides service to a segregated small portion of the system in Cranston. The wholesale interconnections through the City of Warwick consist of the Bald Hill Road Pump Station and the Potowomut Interconnection. The Potowomut Interconnection is for the sale of water to Warwick. No updates were required (with exception to the Clinton Avenue Pump Station) to the model as there have been no modifications to these interconnection facilities.

The Clinton Avenue Pump Station is under construction for the rehabilitation to increase the pumping capability to the Low Service Gradient. The new facility is anticipated to be on line in June 2006 and the improvements to the Low Service Gradient pumping supply have been included in this update.

2.6 Water Storage Facility Updates

The KCWA water supply system contains a total of ten (10) water storage facilities. The West Street Tank is offline and isolated from the system and the Seven Mile Road Reservoirs (Fiskeville Tanks) remain full due to inherent pump head conditions in the model (i.e. "locked up" condition) and maintain similar status in this update.

As indicated in Section 2.3, the KCWA has completed a project to create a new pressure zone in and around the Tiogue Tank so that the pressure gradient is maintained with the overflow elevation of the Tiogue Tank. The Tiogue Tank is located within this new temporary pressure zone and has been updated in the model.

2.7 Distribution System Pumping Facility Updates

The KCWA owns and operates a total of six (6) distribution system booster pump stations (Setian Lane, West Warwick Industrial Park, Johnson Boulevard, Knotty Oak, Hope Road and Tiogue) and two (2) transmission booster pump stations located at the primary wholesale interconnections. The supply capacity of the transmission pumping stations was previously discussed in Section 2.4. As previously indicated, the addition of the Tiogue Booster Pump Station was included in this model update. The Tiogue Booster Pump Station contains two (2) pumps each with a rated capacity of 400 gpm. This pump station boosts water from the Low

Service Pressure Gradient directly into the Tiogue Pressure Gradient. The following tables depict the capacity of each distribution system pumping facility including the pressure zone to which it supplies. The total available source of supply was previously evaluated under Sections 2.4 and 2.5. These facilities are not considered a source of supply to the system as they are utilized to boost pressure from the Low Service Gradient to the identified Pressure Service Gradients.

DISTRIBUTION SYSTEM PUMPING STATIONS

High Service (500 foot) Pressure Gradient

BOOSTER PUMP		RATED CAPACITY
STATION *	IOTAL PUMP CAPACITY	IN GPM (MGD)
Johnson Boulevard Pump Station	1 at 1,200 gpm 2 at 2,300 gpm	3,500 gpm (5.04 MGD)
W. Warwick Business Park Pump Station	2 at 750 gpm	750 gpm (1.08 MGD)
Setian Lane Pump Station	2 at 750 gpm	750 gpm (1.08 MGD)
TOTAL PUMPING		5,000 gpm (7.20 MGD)

Intermediate Service (430 foot) Pressure Gradient

BOOSTER PUMP STATION *	TOTAL PUMP CAPACITY	RATED CAPACITY IN GPM (MGD)
Knotty Oak Pump Station	2 at 1,300 GPM pumps	1,300 gpm (1.87 MGD)
TOTAL PUMPING		1,300 gpm (1.87 MGD)

Tiogue Tank Service (350 foot) Pressure Gradient

BOOSTER PUMP STATION *	TOTAL PUMP CAPACITY	RATED CAPACITY IN GPM (MGD)
Tiogue Tank Pump Station	2 at 400 gpm	400 gpm (0.576 MGD)
TOTAL PUMPING		400 gpm (0.576 MGD)

Hope Road Service (510 foot) Pressure Gradient

BOOSTER PUMP STATION *	TOTAL PUMP CAPACITY	RATED CAPACITY IN GPM (MGD)
Hope Road Pump Station	2 at 10 gpm	10 gpm (0.014 MGD)
TOTAL PUMPING		10 gpm (0.014 MGD)

* One of the largest pumps at these facilities is considered to be an in line spare / backup and is not considered in the total available supply capacity.

3.1 Large User Demand Updates

The demand database in the model for the previously identified large users was reviewed and updated as appropriate based on the latest demand data information. This list was reviewed and any large users which were no longer within the water system were removed from the model and any new large users were included in the model update. There were no new large users nor were there any previous large users which had been removed from the latest list. The following table details each of the large users with their previous total annual usage and their current total annual usage. The model was updated with the most current demand data information.

WATER SYSTEM LARGE	2002 TOTAL	2005 TOTAL	% CHANGE
USERS	ANNUAL USAGE	ANNUAL USAGE	+/-
	(GAL)	(GAL)	
Riverpoint Lace Works	24,491,764	24,469,324	-0.09%
Soluol Chemical Co.	11,335,192	11,756,316	+3.6%
Bradford Soap Works	8,660,942	14,335,719	+39.6%
Kent County Hospital	36,521,743	36,056,629	-1.3%
Cowesett Hills	20,023,960	18,288,600	-8.7%
Briarwood Meadows	19,051,560	23,404,920	+18.6%
Vishay Electro Films	24,654,080	9,555,700	-61.2%
AIMCO Warwick LLC	19,714,288	14,601,708	-25.9%
Amgen	68,507,824	177,261,040	+61.4%
G-Tech	16,074,520	13,538,800	-15.8%
ON Semiconductor	194,761,248	157,333,572	-19.2%
Amtrol Inc.	19,103,920	29,014,920	+34.2%
Edens & Avent.	9,925,960	11,893,200	+16.5%
Arkwright Interlaken	12,056,309	11,636,950	-3.5%
Clariant	158,473,524	131,449,032	-17.1%
Westwood Trailer Park	26,711,080	26,494,160	-0.81%
Quaker Valley Condo	16,270,496	7,240,640	-55.5%
Equity Residential Prop. Trust	9,110,640	10,068,080	+9.5%
Haven Eldercare of New England	9,646,956	12,606,044	+23.5%
Sherwood Valley Trailer Park	9,113,632	7,649,796	-16.1%
TOTALS	714,209,638	748,655,150	+4.6%

The total cumulative demand from the large users increased by 4.6% or approximately 34.5 million gallons a year. The most significant increase in water use occurred for Amgen and which was approximately 108.6 million gallons per year. The most significant decrease in water use occurred for ON Semiconductor and which was approximately 37.4 million gallons per year,

or approximately 100,000 gallons per day. It anticipated that the water use from this customer will continue to decline in the future.

KCWA's wholesale interconnection to the City of Warwick is represented in the hydraulic model as a wholesale large user and is not identified in the largest consumer users in the table above. The KCWA wholesales water to the City of Warwick at the Potowomut interconnection on Post Road. This wholesale volume of water was not modified in this model update.

3.2 Approved Developments

The model update included incorporating all significant KCWA Board approved developments within the service territory since completion of the original model. This included all new water piping infrastructure, interconnection(s) to the water system and consumer demands for average day, maximum day and peak hour simulations. The following table depicts the specific developments that have been approved by the KCWA, their location in the system, descriptive use (i.e. residential, commercial, etc.), pressure zone location and anticipated demand.

The KCWA Regulations require that specific hydraulic model assessments be performed for all proposed residential developments containing ten (10) or more residences or condominium units, all industrial facilities and all commercial facilities, or the equivalent thereof. The assessments are performed to ensure that the KCWA water system has adequate supply and water utility infrastructure in order to provide these developments with sufficient domestic and fire flow at adequate pressure. Hydraulic model assessments have been performed for the developments listed in the table.

DEVELOPMENT	LOCATION	DESCRIPTION	PRESSURE	AVG.	MAX.
			ZONE	DAY	DAY
				DEMAND	DEMAND
				(GPM)	(GPM)
Signal Ridge	EG Re-service, EG	Residential	High Service	141.1	324.5
Rose Farm	Frenchtown Rd., EG	Residential	High Service	1.11	2.6
Birchwood Glen	Kulus Rd., WW	Residential	High Service	2.78	6.4
Middle Woods	Middle Rd., EG	Residential	High Service	27.8	63.9
Shippeetown Rd.	Shippeetown Rd., EG	Residential	High Service	6.67	15.3
Subdivision					
Amgen	Technology Way,	Industrial	High Service	833.3	1,500.0

DEVELOPMENT	LOCATION	DESCRIPTION	PRESSURE	AVG.	MAX.
			ZONE	DAY	DAY
				DEMAND	DEMAND
				(GPM)	(GPM)
	WG				
Sandra Court	Reservoir Rd., COV	Residential	High Service	1.81	4.2
Chole Court	Clark Rd., COV	Residential	High Service	2.08	4.8
Hawk Crest Est.	Hill Farm Rd., COV	Residential	High Service	12.2	28.1
Crystal Creek	Middle Rd., EG	Residential	High Service	9.58	22.0
Long Meadow	Frenchtown Rd., EG	Residential	High Service	8.33	19.2
Middle Hollow	Middle Rd., EG	Residential	High Service	2.78	6.4
Blueberry Hill	Shippeetown Rd., EG	Residential	High Service	7.78	17.9
Hidden Ridge	Shippeetown Rd., EG	Residential	High Service	8.89	20.4
Green Farm	Squirrel Ln./Tillinghast Rd., EG	Residential	High Service	6.67	13.3
Dunkin Donuts	New London Turnpike	Commercial	High Service	1.3	2.0
Chiropractic Center	Nooseneck Hill Rd., WG	Commercial	High Service	0.63	0.9
Randolph Bank	Center of New England, COV	Commercial	High Service	1.0	1.5
Leisure Condo	Nooseneck Hill Rd., COV	Condominiums	High Service	13.9	27.8
Coventry Lumber	Nooseneck Hill Rd., COV	Commercial	High Service	1.0	1.5
Home Depot	Center of New England, COV	Commercial	High Service	1.7	2.6
Arlington RV	Division Rd., WG	Commercial	High Service	3.5	5.3
Brooks Pharmacy	Division Rd., EG	Commercial	High Service	10.4	15.6
Pine Ridge	Hopkins Hill Rd., COV	Residential	High Service	28.8	66.2
Westwood Apartments	Reservoir Rd., COV	Apartments	High Service	4.9	9.8
Wingate Hotel	CNE Universal Blvd., COV	Hotel	High Service	2.0	4.0
Wal-Mart	CNE Boulevard, COV	Commercial	High Service	1.7	2.6
Dunkin Donuts	Hopkins Hill Rd., WG	Commercial	High Service	1.3	2.0
Maple Root Center	Nooseneck Hill Rd., COV	Commercial	High Service	1.7	2.6
Deer Run	Carr Pond Rd., WG	Residential	High Service	13.0	29.9
Gentry Glen	Crompton Rd., WW	Condominiums	High Service	13.0	25.8
Condos					
Retail Pad A	Center of New England, COV	Commercial	High Service	1.3	2.0
GrandVille @	Center of New	Condominiums	High Service	31.1	77.8

DEVELOPMENT	LOCATION	DESCRIPTION	PRESSURE ZONE	AVG. DAV	MAX. DAV
			LONE	DEMAND (GPM)	DEMAND (GPM)
Greenwich	England, WG				
184 Homes	Maude Ave., COV	Residential	High Service	19.7	45.3
Carriage House Condos	Reservoir Rd., COV	Condominiums	Reduced High Service	3.3	6.7
Greenview Condominiums	Prospect Hill Ave., WW	Condominiums	Low Service	12.5	26.7
Guillemette Place	Sunrise Ave., WW	Residential	Low Service	3.34	7.12
Sunrise View 2	Sunrise Ave., WW	Residential	Low Service	4.17	8.9
Sunrise View 3	Sunrise Ave., WW	Residential	Low Service	6.67	14.2
Sun Valley Mobile Homes	South County Tr., EG	Residential	Low Service	13.3	28.5
DeGraide Farms	Hornbeam Rd., COV	Residential	Low Service	17.9	38.3
Royal Mills	Providence St., WW	Apartments	Low Service	60.7	151.8
EG Medical Center	South County Tr., EG	Commercial	Low Service	2.36	5.43
Legris Ave. Condos	Legris Ave., WW	Condominiums	Low Service	7.5	17.25
		TOTAL AP DEMANI	PROVED D (GPM)	1,356.55	2,679.10

4.1 Simulations Overview

Hydraulic model simulations were performed for average day, maximum day and peak hour demand scenarios with the latest modifications to the system geometry and updates in system operations included in the hydraulic model. The following sections describe the simulations for each demand scenario and the results of the simulations.

4.2 Average Day Simulation

A complete summary of this simulation is provided in Appendix A.

Average Day Initial Modeling Conditions:

The following is a summary of the initial model conditions (i.e. tank levels, pumps on / off, etc.) categorized by the various pressure gradients. The "status" provides indication if the facility is either on/off for this simulation. A designation of "off" implies that it is not active during the simulation but is available for service. A designation of "offline" or "out of service" implies that this facility cannot be used for service.

Status

Facility

Low Somias (224') Cug diaut	
- Setian Lane Tank	332 feet
- Seven Mile Road Reservoirs	"Locked Up" – pressure head from
	pump station
- Frenchtown Road Tank	332 feet
- Wakefield Street Tank	327 feet
- West Street Tank	Out of Service - Offline
- Mishnock Wells	Off
- East Greenwich Well	On
- Spring Lake (Coventry) Well	Off
- Clinton Avenue Pump Station	On – Two Pumps Active
- Bald Hill Road Pump Station	On – One Pump Active
Tiogue Tank (350') Gradient	
- Tiogue Avenue Tank	345 feet
- Tiogue Booster Pump Station	Off

Intermediate High (430') Gradient

- Read School House Road Tank
- Knotty Oak Pump Station

High Service (500') Gradient

- Technology Park Tank
- Carrs Pond Tank
- Johnson Boulevard Pump Station
- West Warwick Business Park Pump Station
- Setian Lane Booster Pump Station

Low Service Reduced (334') Gradient

- Centerville Road PRV Station
- Division Road PRV Station
- Middle Road PRV Station
- Cowesett Road PRV Station
- Love Lane PRV Station
- Post Road PRV Station

High Service (500') Reduced Gradient

Michnool Dov Station	- Active Open
- MISHHOCK ROAD PRV Station	Active – Open
- Helen Ave. PRV Station	Active – Open

Warwick Wholesale Interconnection (232') Gradient

- Wholesale Connection to Warwick/Bald Hill PS Active - Open

Hope Road (510') Gradient

- Hope Road Booster Pump Station

Oaklawn (231') Gradient

- Wholesale Connection to Providence Water Active - Open

Average Day Results Summary:

This scenario was premised on a total consumer system demand of 8,074 gpm (11.6 MGD), which is the total system demand including "unaccounted" water volume. The scenario indicates that the total volume of flow being stored in the tanks (aggregate volume going to storage tanks) is equal to 2,426 gpm (3.5 MGD). Overall, the hydraulic gradients for the various pressure zones were calculated to be in the range in which these pressure zones are normally operated.

Low Service (334') Gradient - Setian Lane Tank

Facility

Output Results Summary

Filling 307 gpm

Active – Hydro Pneumatic Tank

495 feet

495 feet On – One Pump Active (small pump) Off On – One Pump Active

427 feet On – One Pump Active

Active - Open

Active - Open Active - Open

Active - Open Active - Open

Active - Open

-	Seven	Mile	Road	Reservoirs
---	-------	------	------	------------

- Frenchtown Road Tank
- Wakefield Street Tank
- West Street Tank
- Mishnock Wells
- East Greenwich Well
- Spring Lake (Coventry) Well
- Clinton Avenue Pump Station
- Bald Hill Road Pump Station

Tiogue Tank (350') Gradient

- Tiogue Avenue Tank

- Tiogue Booster Pump Station

Intermediate High (430') Gradient

- Read School House Road Tank
- Knotty Oak Pump Station

High Service (500') Gradient

- Technology Park Tank - Carrs Pond Tank - Johnson Boulevard Pump Station - West Warwick Business Park Pump Station Off - Setian Lane Booster Pump Station Low Service Reduced (334') Gradient - Centerville Road PRV Station - Division Road PRV Station - Middle Road PRV Station - Cowesett Road PRV Station - Love Lane PRV Station - Post Road PRV Station

<u>High Service (500') Reduced Gradient</u>

- Mishnock Road PRV Station

- Helen Ave. PRV Station

Warwick Wholesale Interconnection (232') Gradient - Wholesale Connection to Warwick/Bald Hill PS 2,001 gpm

Hope Road (510') Gradient

- Hope Road Booster Pump Station	4.44 gpm output
Oaklawn (231') Gradient	
	051

- Wholesale Connection to Providence Water 251 gpm

"Locked Up" - pressure head from pump station Filling 338 gpm Filling 853 gpm Out of Service - Offline Off 1,129 gpm output Off 7,119 gpm output 1,998 gpm output

Draining 60 gpm Off

Filling 1,093 gpm 1,369 gpm output

- Filling 102 gpm Draining 208 gpm 1,198 gpm output 834 gpm output
- Open 173 gpm Open 330 gpm Open 275 gpm Open 197 gpm Open 326 gpm Inactive - Closed

Open 279 gpm Open 88 gpm

4.3 Maximum Day Simulation

A complete summary of this simulation is provided in Appendix B.

Maximum Day Initial Modeling Conditions:

The following is a summary of the initial model conditions (i.e. tank levels, pumps on / off, etc.) categorized by the various pressure gradients:

<u>Facility</u>	<u>Status</u>
Low Service (334') Gradient	
- Setian Lane Tank	332 feet
- Seven Mile Road Reservoirs	"Locked Up" – pressure head from pump station
- Frenchtown Road Tank	332 feet
- Wakefield Street Tank	327 feet
- West Street Tank	Out of Service - Offline
- Mishnock Wells	Off
- East Greenwich Well	On
- Spring Lake (Coventry) Well	Off
- Clinton Avenue Pump Station	On – Three Pumps Active
- Bald Hill Road Pump Station	On – Three Pumps Active
Tiogue Tank (350') Gradient	
- Tiogue Avenue Tank	345 feet
- Tiogue Booster Pump Station	Off
Intermediate High (430') Gradient	
- Read School House Road Tank	427 feet
- Knotty Oak Pump Station	On – One Pump Active
High Service (500') Gradient	
- Technology Park Tank	495 feet
- Carrs Pond Tank	495 feet
- Johnson Boulevard Pump Station	On – Two Pumps Active (1 small, 1 large)
- West Warwick Business Park Pump Station	On – One Pump Active
- Setian Lane Booster Pump Station	On – One Pump Active
Low Service Reduced (334') Gradient	
- Centerville Road PRV Station	Active - Open
- Division Road PRV Station	Active - Open
- Middle Road PRV Station	Active - Open
- Cowesett Road PRV Station	Active - Open
- Love Lane PRV Station	Active - Open

- Post Road PRV Station	Active - Open
<u>High Service (500') Reduced Gradient</u> - Mishnock Road PRV Station - Helen Ave. PRV Station	Active – Open Active – Open
<i>Warwick Wholesale Interconnection (232') Gradien</i> - Wholesale Connection to Warwick	<u>ut</u> Active - Open
<u>Hope Road (510') Gradient</u> - Hope Road Booster Pump Station	Active – Hydro
Oaklawn (231') Gradient	

- Wholesale Connection to Providence Water Active - Open

Maximum Day Results Summary:

This scenario was premised on a total consumer system demand of 15,465 gpm (22.3 MGD), which is the system demand including "unaccounted" water volume. The scenario indicates that the total volume of flow being stored in the tanks (aggregate volume going to storage tanks) is equal to 997 gpm (1.4 MGD). Overall, the hydraulic gradients for the various pressure zones were calculated to be in the range in which these pressure zones are normally operated.

Facility

Low Service (334') Gradient

- Setian Lane Tank

- Seven Mile Road Reservoirs
- Frenchtown Road Tank
- Wakefield Street Tank
- West Street Tank
- Mishnock Wells
- East Greenwich Well
- Spring Lake (Coventry) Well
- Clinton Avenue Pump Station
- Bald Hill Road Pump Station

Tiogue Tank (350') Gradient

- Tiogue Avenue Tank
- Tiogue Booster Pump Station

Intermediate High (430') Gradient

- Read School House Road Tank

Output Results Summary

Draining 17 gpm "Locked Up" – pressure head from pump station Draining 307 gpm Filling 179 gpm Out of Service - Offline Off 1,144 gpm output Off 9,716 gpm output 5,083 gpm output

Draining 122 gpm Off

Filling 862 gpm

o Pneumatic Tank

- Knotty Oak Pump Station	1,426 gpm output
 <u>High Service (500') Gradient</u> Technology Park Tank Carrs Pond Tank Johnson Boulevard Pump Station West Warwick Business Park Pump Station Setian Lane Booster Pump Station 	Draining 35 gpm Filling 437 gpm 2,908 gpm output 872 gpm output 823 gpm output
Low Service Reduced (334') Gradient - Centerville Road PRV Station - Division Road PRV Station - Middle Road PRV Station - Cowesett Road PRV Station - Love Lane PRV Station - Post Road PRV Station	Open 417 gpm Open 480 gpm Open 365 gpm Open 521 gpm Open 272 gpm Open 535 gpm
<u>High Service (500') Reduced Gradient</u> - Mishnock Road PRV Station - Helen Ave. PRV Station	Open 312 gpm Open 407 gpm
<u>Warwick Wholesale Interconnection (232') Gradien</u> - Wholesale Connection to Warwick/Bald Hill PS	<u>nt</u> 5,090 gpm
<u>Hope Road (510') Gradient</u> - Hope Road Booster Pump Station	9.04 gpm output
<u>Oaklawn (231') Gradient</u> - Wholesale Connection to Providence Water	512 gpm

4.4 Peak Hour Simulation

A complete summary of this simulation is provided in Appendix C.

Peak Hour Initial Modeling Conditions:

The following is a summary of the initial model conditions (i.e. tank levels, pumps on / off, etc.) categorized by the various pressure gradients:

<u>Facility</u>	<u>Status</u>
Low Service (334') Gradient	
- Setian Lane Tank	332 feet
- Seven Mile Road Reservoirs	"Locked Up" – pressure head from pump station
- Frenchtown Road Tank	332 feet

 Wakefield Street Tank West Street Tank Mishnock Wells East Greenwich Well Spring Lake (Coventry) Well Clinton Avenue Pump Station Bald Hill Road Pump Station 	327 feet Out of Service - Offline Off On Off On – Three Pumps Active On – Three Pumps Active
<u>Tiogue Tank (350') Gradient</u> - Tiogue Avenue Tank - Tiogue Booster Pump Station	345 feet
Intermediate High (130') Gradient	
- Read School House Road Tank	427 feet
- Knotty Oak Pump Station	On – One Pump Active
<u>High Service (500') Gradient</u> - Technology Park Tank	495 feet
- Carrs Pond Tank	495 feet
- Johnson Boulevard Pump Station	On – Two Pumps Active (1 small, 1 large)
- West Warwick Business Park Pump Station	On – One Pump Active
- Setian Lane Booster Pump Station	On – One Pump Active
Low Service Reduced (334') Gradient	
- Centerville Road PRV Station	Active - Open
- Division Road PRV Station	Active - Open
- Middle Road PRV Station	Active - Open
- Cowesett Road PRV Station	Active - Open
- Love Lane PRV Station	Active - Open
- Post Road PRV Station	Active - Open
High Service (500') Reduced Gradient	
- Mishnock Road PRV Station	Active – Open
- Helen Ave. PRV Station	Active – Open

Warwick Wholesale Interconnection (232') Gradient - Wholesale Connection to Warwick/Bald Hill PS Active - Open

Hope Road (510') Gradient

- Hope Road Boost	ter Pump Station
-------------------	------------------

Active – Hydro Pneumatic Tank

<u>Oaklawn (231') Gradient</u> - Wholesale Connection to Providence Water

Active - Open

Peak Hour Results Summary:

This scenario was premised on a total system demand of 17,962 gpm (25.9 MGD), which is the system demand including "unaccounted" water volume. The scenario indicates that the total volume of flow being depleted from the tanks (aggregate volume draining out of storage tanks) is equal to 1,030 gpm (1.5 MGD). Overall, the hydraulic gradients for the various pressure zones were calculated to be in the range in which these pressure zones are normally operated.

Facility

Low Service (334') Gradient

- Setian Lane Tank

- Seven Mile Road Reservoirs
- Frenchtown Road Tank
- Wakefield Street Tank
- West Street Tank
- Mishnock Wells
- East Greenwich Well
- Spring Lake (Coventry) Well
- Clinton Avenue Pump Station
- Bald Hill Road Pump Station

Tiogue Tank (350') Gradient

- Tiogue Avenue Tank
- Tiogue Booster Pump Station

Intermediate High (430') Gradient

- Read School House Road Tank
- Knotty Oak Pump Station

High Service (500') Gradient

- Technology Park Tank
- Carrs Pond Tank
- Johnson Boulevard Pump Station
- West Warwick Business Park Pump Station
- Setian Lane Booster Pump Station

Low Service Reduced (334') Gradient

- Centerville Road PRV Station	Open 496 gpm
- Division Road PRV Station	Open 538 gpm
- Middle Road PRV Station	Open 414 gpm
- Cowesett Road PRV Station	Open 626 gpm
- Love Lane PRV Station	Open 351 gpm

Output Results Summary

Draining 414 gpm "Locked Up" – pressure head from pump station Draining 687 gpm Draining 193 gpm Out of Service - Offline Off 1,149 gpm output Off 10,025 gpm output 5,162 gpm output

Draining 139 gpm Off

Filling 771 gpm 1,413 gpm output

Draining 436 gpm Filling 68 gpm 2,838 gpm output 877 gpm output 830 gpm output

- Post Road PRV Station	Open 579 gpm
<u>High Service (500') Reduced Gradient</u> - Mishnock Road PRV Station - Helen Ave. PRV Station	Open 385 gpm Open 500 gpm
<u>Warwick Wholesale Interconnection (232') Gradie</u> - Wholesale Connection to Warwick/Bald Hill PS	<u>nt</u> 5,171 gpm
<u>Hope Road (510') Gradient</u>	

- Hope Road Booster Pump Station 10.31 gpm output <u>Oaklawn (231') Gradient</u> When he for the particular f

- Wholesale Connection to Providence Water 588 gpm

4.5 Summary and Conclusions

The hydraulic model update consisted of modifying the model geometry to represent changes in the water system infrastructure and changes in operation of the water system, updating the consumer demand data for the large water users and including the consumer demands of all the developments that were approved by the KCWA Board. Once these updates were completed, average day, maximum day and peak hour model simulations were performed with the latest modifications to the system geometry and system operational changes. The following table summarizes the water system demand for the updated hydraulic model compared to the water system demands contained in the original model.

MODELING	ORIGINAL MODEL	MODEL UPDATE	% CHANGE
SCENARIO			+/-
Average Day System	7.244 gpm (10.4 MGD)	8.074 gpm (11.6 MGD)	⊥10 3%
Demand	7,244 gpiii (10.4 MOD)	8,074 gpiii (11.0 MOD)	+10.370
Maximum Day System	13543 gpm (105 MGD)	15 465 gpm (22 2 MGD)	12 404
Demand	13,343 gpiii (19.5 MOD)	15,405 gpiii (22.2 WOD)	+12.4%
Peak Hour System	15 215 cmm (22 1 MCD)	17.062 apm (25.0 MCD)	14 70/
Demand	13,513 gpiii (22.1 MGD)	17,902 gpiii (23.9 MGD)	+14./%

The results of the updated model simulations indicate that the KCWA water system demand has increased under all of the demand scenarios (average day, maximum day, peak hour). On average the increase is 12.5%. The following table summarizes the consumer demand for each pressure zone under the various demand scenarios.

PRESSURE ZONE	DEMAND SCENARIO	DEMAND
	ļ	(GPM)
Low Service (334') Gradient	Average Day	4,040
	Maximum Day	7,459
	Peak Hour	8,653
Tiogue Tank (350') Gradient	Average Day	60
	Maximum Day	122
	Peak Hour	139
Intermediate High (430') Gradient	Average Day	276
-	Maximum Day	563
	Peak Hour	642
High Service (500') Gradient	Average Day	1,773
	Maximum Day	3,487
	Peak Hour	4,037
Low Service Reduced (334')	Average Day	1,299
Gradient	Maximum Day	2,588
	Peak Hour	3,000
High Service (500') Reduced	Average Day	367
Gradient	Maximum Day	719
	Peak Hour	885
Warwick Wholesale	Average Day	4
Interconnection (232') Gradient	Maximum Day	7
	Peak Hour	8
Hope Road (510') Gradient	Average Day	4
	Maximum Day	9
	Peak Hour	10
Oaklawn (231') Gradient	Average Day	251
	Maximum Day	511
	Peak Hour	588

Appendix A Average Day Simulation Summary Pipeline Database Results Junction Node Database Results

Calculation Results Summary

Scenario: AD Run 2 [Analysis Started] [Steady State] 0:00:00 Balanced after 8 trials; relative flow change = 0.000347 Flow Summary Flow Supplied 10,499.89 gpm Flow Demanded 8,074.15 gpm Flow Stored 2,425.58 gpm 0:00:00 Reservoir R-1 is closed 0:00:00 Reservoir R-3 is closed 0:00:00 Reservoir R-2 is closed 0:00:00 Reservoir R-5 is closed 0:00:00 Reservoir R-6 is emptying 0:00:00 Reservoir R-7 is emptying 0:00:00 Reservoir R-8 is emptying 0:00:00 Reservoir R-9 is emptying 0:00:00 Reservoir R-10 is emptying 0:00:00 Tank T-1 is filling at 37.00 ft 0:00:00 Tank T-2 is emptying at 35.00 ft 0:00:00 Tank T-3 is filling at 48.00 ft 0:00:00 Tank T-4 is filling at 145.00 ft 0:00:00 Tank T-6 is closed at 44.00 ft 0:00:00 Tank T-7 is filling at 18.00 ft 0:00:00 Tank T-8 is filling at 63.00 ft 0:00:00 Tank T-9 is closed at 11.00 ft 0:00:00 Tank T-10 is closed at 11.00 ft 0:00:00 Tank T-5 is emptying at 77.00 ft 0:00:00 PRV PRV-7 active 0:00:00 PRV PRV-2 active 0:00:00 PRV PRV-3 closed 0:00:00 PRV PRV-4 active 0:00:00 PRV PRV-8 active 0:00:00 PRV PRV-6 active 0:00:00 PRV PRV-1 active 0:00:00 PRV PRV-5 active [Analysis Ended]

Scenario: AD Run 2 Steady State Analysis Pump Report

Labei	Elevation (ft)	Control Status	Intake Pump Grade (ft)	Discharge Pump Grade (ft)	Discharge (gpm)	Pump Head (ft)	Discharge Pump Pressure (psi)	Description	Notes
PMP-1	259.00	Off	235.00	348.49	0.00	0.00	38.72	Mishnock Well 1	cov
PMP-2	259.00	Off	259.00	348.49	0.00	0.00	38.72	Mishnock Well 2 (Abandoned)	COV
PMP-3	259.00	Off	246.24	348.49	0.00	0.00	38.72	Mishnock Well 3	cov
PMP-4	249.80	Off	229.80	347.88	0.00	0.00	42.43	Coventry/Spring Lake Well	cov
PMP-5	15.50	On	15.44	337.96	1,129.34	322.52	139.52	EG Well Station 1	EG
PMP-6	273.00	On	363.64	516.95	1,369.13	153.32	105.55	Pump 1 Knotty Oak Rd. PS	cov
P M P-9	250.00	On	341.16	510.49	1,197.94	169.34	112.70	Pump 3 Johnson Bivd. PS	cov
PMP-10	250.00	Off	342.08	509.41	0.00	0.00	112.24	Pump 2 Johnson Blvd. PS	cov
PMP-11	250.00	Off	342.08	509.41	0.00	0.00	112.24	Pump 1 Johnson Blvd. PS	cov
PMP-12	273.00	Off	369.60	509.41	0.00	0.00	102.28	Pump 2 Knotty Oak Rd. PS	COV
PMP-13	182.00	Off	233.69	405.13	0.00	0.00	96.54	Pump 4 Clinton Ave. PS	SCIT
PMP-14	182.00	Off	233.69	405.14	0.00	0.00	96.54	Pump 3 Clinton Ave. PS	SCIT
PMP-15	182.00	On	232.74	407.65	3,559.41	174.91	97.63	Pump 2 Clinton Ave. PS	SCIT
PMP-16	182.00	On	232.74	407.65	3,559.41	174.91	97.63	Pump 1 Clinton Ave. PS	SCIT
PMP-17	130.00	On	226.98	355.68	1,997.61	128.71	97.64	Pump 1 Bald Hill Rd. PS	WAR
PMP-18	130.00	Off	231.07	336.17	0.00	0.00) 89.20	Pump 2 Bald Hill Rd. PS	WAR
PMP-19	130.00	off	231.07	336.17	0.00	0.00	89.20	Pump 4 Bald Hill Rd. PS	WAR
PMP-20	130.00	Off	231.07	336.17	0.00	0.00	89.20	Pump 3 Bald Hill Rd. PS	WAR
PMP-21	262.00	On	330.89	503.80	834.29	172.91	104.61	Setian Ln. PS Pump 1	ww
PMP-22	262.00	Off	331.97	498.22	0.00	0.00	102.20	Setian Ln. PS Pump 2	ww
PMP-24	238.00	nor	333.39	494.93	0.00	0.00) 111.1e	WW Business Park PS Pump 1	ww
PMP-25	238.00	orr	333.39	494.93	0.00	0.00	0 111.1€	WW Business Park PS Pump 2	ww
PMP-27	232.0	nO C	332.29	598.96	5 1.97	266.67	7 158.77	EG Medical Center Fire Pump	EG
PMP-28	290.0	0 Off	344.84	345.00	0.00	0.00	0 23.79	Tiogue Tank Booster Pump 2	cov
PMP-29	290.0	0 Off	344.84	345.00	0.00	0.0	0 23.79	Tiogue Tank Booster Pump 1	COV
PMP-30	182.0	0 Off	234.00	395.2	9 0.00	0.0	0 92.28	3 Clinton Ave. PS	SCIT
PMP-31	182.0	0 Off	234.00	395.2	e 0.00	0.0	0 92.28	3 Clinton Ave. PS	SCIT
PMP-32	281.0	0 On	403.88	556.0	o 4,44	152.1	1 118.98	B Hope Rd. Booster PS	CRA
PMP-33	182.0	0 Off	233.69	405.1	3 0.00	0.0	0 96.54	Pump 5 Clinton Ave. PS	SCIT

Scenario: AD Run 2 Steady State Analysis Reservoir Report

Label	Elevation (ft)	Zone	inflo w (gpm) I	Calculated Iydraulic Grad (ft)	Description	Notes
R-1	235.00	Zone - 1	0.00	235.00	Mishnock Well 1	cov
R-2	259.00	Zone - 1	0.00	259.00	Mishnock Well 2 (Abandoned)	cov
R-3	246.24	Zone - 1	0.00	246.24	Mishnock Well 3	cov
R-5	229.80	Zone - 1	0.00	229.80	Coventry/Spring Lake Well	cov
R-6	15.50	Zone - 1	-1,129.34	15.50	EG Well Station 1	EG
R-7	231.00	Zone - 5	-250.61	231.00	Master Meter from Providence	CRA
R-8	234.00	Zone - 1	-7,118.81	234.00	Providence Water Aqueduct	SCIT
R-9	232.00	Zone - 6	-830.60	232.00	Warwick Tanks	WAR
R-10	232.00	Zone - 6	-1,170.53	232.00	Warwick Tanks	WAR

	7	sis	
	AD Run	e Analys	eport
	enario: /	ady State	Tank R
·	Sc	Stea	

....

. Description	Read School House Rd. Tank 1.5 MG - RSHR HS Tiogue Tank 0.771 MG - Inc. HS Frenchtown Rd. Tank 1.5 MG - LS Technology Park Tank - HS Carrs Pond Rd. Tank - HS West Street Tank 1 MG - Off Setian Lane Tank - LS Wakefield St. Tank - LS Seven Mile Rd. 0.5 MG - Off Seven Mile Rd. 1 MG - Off
Calculated Percent Fult (%)	92.5 87.5 96.0 93.9 98.0 98.0 90.0 100.0
Calculated Hydraulic Grade (ft)	427.00 345.00 332.00 495.00 328.00 328.00 324.00 334.00
Current Status	Filling Draining Filling Draining Steady Filling Full Full
Inflow (მეო)	1,092.52 -59.98 338.14 101.60 -207.54 0.00 307.43 853.41 0.00 0.00
Tank Diameter (ft)	80.00 58.00 73.00 75.25 80.00 58.00 160.00 70.00 N/A N/A
Maximurr Elevation (ft)	430.00 350.00 500.00 500.00 334.00 334.00 334.00 334.00 334.00
Initial HGL (ft)	427.00 345.00 332.00 495.00 495.00 328.00 322.00 324.00 334.00 334.00
Minimum Elevation (ft)	390.00 390.00 284.00 418.00 284.00 314.00 314.00 318.00 328.00
Base Elevation (ft)	390.00 310.00 284.00 350.00 418.00 284.00 284.00 314.00 264.00 323.00
Zone	Zone - 7 Zone - 9 Zone - 1 Zone - 2 Zone - 1 Zone - 1 Zone - 1 Zone - 1 Zone - 1 Zone - 1 Zone - 1
Label	T-1 T-2 T-2 T-4 T-5 T-5 T-6 T-6 T-6 T-8 T-8 T-8 T-8 T-8 T-8

Title: KCWA Hydrauiic Model c:\...\0261 kcwa modelkcwa hydrautic model.wcd 02/17/08 11:33:53 AM © Bentley Systems, Inc. Haestad Methods Solution Center Watertown, CT 06795 USA +1-203-755-1688

Project Engineer: WaterCAD v7.0 [07.00.049.00] Page 1 of 1 | | | | | | | | | | Scenario: AD Run 2 Steady State Analysis Valve Report

Description	Love Ln. PRV Middle Rd. PRV Post Rd. PRV Division St. PRV Centerville Rd. PRV Cowesett Rd. PRV Helen Ave. PRV Mishnock Rd. PRV
Headloss (ft)	65.50 60.73 0.00 60.66 58.42 58.13 58.13 73.84 73.84
16 #GL	270.02 270.02 336.08 270.04 268.08 268.05 430.05 430.05
From HGL (ft)	335.52 330.76 336.20 330.71 326.51 326.51 326.51 495.75
To Pressure (psi)	28.57 29.86 132.43 52.60 61.89 64.92 45.44
From Pressure (psi)	56.90 56.14 58.14 79.05 128.12 87.04 96.87 71.71
Discharge (gpm)	326.14 274.56 0.00 330.21 173.30 196.58 88.45 279.31
Control Status	Throttling Throttling Closed Throttling Throttling Throttling Throttling
Initial Valve Status	Active Active Active Active Active Active
HG HG HG	270.00 270.00 268.00 270.00 288.00 288.00 430.00
Diameter (in)	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
Elevation (ft)	204.00 201.00 30.00 148.00 35.00 125.00 280.00 330.00
Label	PRV-1 PRV-2 PRV-4 PRV-5 PRV-6 PRV-6 PRV-8

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Title: KCWA Hydraulic Model c:\...\0261 kcwa modelxcwa hydraulic model.wcd 02/17/06 11:34:01 AM © Bentley Systems, Inc. Haestad Methods Solution Center Watertown, CT 06795 USA +1-203-755-1666

KCWA Model Update Pipeline Database Average Day

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7	Labei	Description	Diameter (in)	Material	Hazen- Williams C	Notes	Length (ft)	Discharge (gpm)	Velocity (fl/s)	Calculated Friction Headloss (ft)
	P-1	Carriage Rd.	8	Asbestos Cement	130	WW 1975	330	17.76	0.11	0.000
~	P-2	Little John La.	8	Ductile Iron	135	WW 1991	429	-14.57	0.09	0.000
— [P-3	Whispering Pines Ct.	8	Ductile Iron	135	WW 1991	258	1.54	0.01	0.000
	P-4	Little John La.	8	Ductile Iron	135	WW 1991	639	-17.65	0.11	0.010
	P-5	Medelval Way	8	Ductile Iron	135	WW 1991	579	-48.49	0.31	0.040
	P-6	Medeival Way	8	Ductile Iron	135	WW 1991	307	-67.68	0.43	0.040
	P-7	Longbow Dr.	8	Ductile Iron	135	WW 1991	314	-5.33	0.03	0.000
<u>.</u> L	P-8	Kings Forest	8	Ductile Iron	135	WW 1991	962	-20.09	0.13	0.010
	P-9	Longbow Dr.	8	Ductile Iron	135	WW 1991	367	-38.01	0.25	0.020
	P-10	Longbow Dr.	8	Ductile Iron	135	WW 1991	204	-13.21	0.00	0.000
	P-11	Cobblestone La.	8	Ductile Iron	135	VVVV 1991	200	-30.29	0.52	0.020
	P-12	Drawbridge Dr.	16	Ductile Iron	130	VVVV 1991	294	-534.11	0.55	0.020
~- L	P-13	Mederval Way	8	Ductile Iron	135	VVVV 1991	842	-36.74	0.23	0.030
ļ	P-14		0	Ductile Iron	135	WAA/ 1991	313	-60.24	0.38	0.030
- I-	P-15	Longbow Dr.	0	Ashactas Comant	120	WW 1950	1389	27.03	0.31	0 150
- F	P-16	Enneio Dr.	10	Aspesios Cemen	120	W/W 1991	402	-347 14	0.55	0.030
-	P-17	Drawbridge Dr.	16	Ductile Iron	135	WW/ 1991	791	-285.37	0.46	0.050
-	P-18	Drawbridge Dr.	10	Ductile Imp	135	WW 1991	367	-43.20	0.28	0.020
	P-20		<u> </u>	Ouctile Imn	135	WW 1991	579	-68.23	0.44	0.070
- -	P-21	Crossbow La	8	Ashestos Cement	130	WW 1973	905	-163.91	1.05	0.580
-	P 22	Crossbow La.	8	Ductile Imn	135	WW 1991	317	-84.41	0.54	0.060
ŀ	P-23	Crossbow La.	8	Ductile Imn	135	WW 1991	274	-154.18	0.98	0.150
- -	D-25	Crossbow La	8	Ductile Iron	135	WW 1991	309	-146.06	0.93	0.150
-	P-26	New London Tok	12	Asbestos Cement	125	WW 1960	467	-194.92	0.55	0.060
F	P-27	Green Bush Rd	12	Asbestos Cement	130	WW 1973	130	196.46	0.56	0.020
F	P.29	Rotary Dr.	8	Asbestos Cement	125	WW 1962	301	-35.53	0.23	0.010
	P 30	Chamber Way	6	Asbestos Cement	125	WW 1968	331	1.54	0.02	0.000
— ŀ	P-31	Rotary Dr.	8	Asbestos Cement	125	WW 1962	914	-32.45	0.21	0.030
- F	P-32	Rotary Dr.	8	Asbestos Cement	125	WW 1969	400	27.08	0.17	0.010
F	P-33	Exchange Rd.	8	Asbestos Cement	125	WW 1969	377	-102.31	0.65	0.110
ľ	P-34	Jaycee Dr.	8	Asbestos Cement	125	WW 1962	753	-65.29	0.42	0.090
F	P-35	Lions Dr.	8	Asbestos Cement	125	WW 1969	573	-17.51	0.11	0.010
- 1	P-36	Kiwanis Dr.	8	Asbestos Cement	125	WW 1969	567	-57.99	0.37	0.060
· 1	P-37	Lions Dr.	8	Asbestos Cement	125	WW 1969	264	-73.96	0.47	0.040
	P-38	Service Rd.	6	Asbestos Cement	125	WW 1969	652	-27,03	0.31	0.060
E E	P-39	Exchange Rd.	8	Asbestos Cement	125	WW 1969	617	28.67	0.18	0.020
- 1	P-40	Service Rd.	8	Ductile fron	135	WW 1991	2/6	1.64	0.00	0.070
L	P-41	Quill Dr.	6	Ductile Iron	135	VVV 1991	424	1.04	0.02	0.000
	P-42	Service Rd.	8	Ductile Iron	135	1444(1001	705	9.66	0.00	0.000
	P-43	Quiver Dr.	8	Ductile Iron	130	VVVV 1991	400	-117.98	0.75	0.000
i	P-44	Service Rd.	8	Ductile Iron	135	WWW 1991	203		0.13	0.160
_ !	P-45	Exchange Rd.	8	Aspestos Cement	123	WAA/ 2002	233	60.22	0 20	0.000
Ļ	<u>P-46</u>	Providence St.	12	Ductile Iron	140	VVVV 2003	990	363.10	0.58	0.090
	P-48	Green Bush Rd.	16	Aspestos Cement	130	VVV 1973	1736	-649.07	1.04	0.490
Ļ	P-50	Green Bush Rd.	16	Asbestos Cement	130	M/A/ 1973	455	-0.75	0.00	0.000
1	P-52	Acom La.		Asbestos Cement	130	WM 1073	382	-6.91	0.04	0.000
	P-53	Acom La.	8	Aspestos Cement	130	WW 1973	306	-62.80	0.40	0.030
ļ	P-54	Acom La.	8	Asbestos Cement	130	WW 1973	1405	23.65	0.15	0.020
1	P-55	Acom La.	°	Asbestos Comort	130	WW 1973	345	-19.04	0.12	0.000
	P-57	Cone Dr.	0	Achestos Coment	130	WW 1973	1182	-9.80	0.06	0.000
	P-58	Lone Ur.	0	Ashestos Camant	130	WW 1973	1535	-7.70	0.05	0.000
	P-59	Erian Tuek La	- <u>0</u>	Asheetos Comont	130	WW 1973	301	1.54	0.01	0.000
1	P-62	Natiosban Dr	0 	Asbestos Cement	130	WW 1973	727	-53.88	0.34	0.060
	P-03	Nottingham Dr.	8	Aspestos Cement	130	WW 1973	1677	-47.73	0.30	0.110
	D_85	I P Mumby Hwy	16	Asbestos Cement	130	WW 1980	3191	38.93	0.06	0.000
	20- 10- 10- 10- 10- 10- 10- 10- 10- 10- 1	J P Mumhy Hwy	16	Asbestos Cement	130	WW 1980	1827	-25.49	0.04	0.000
	P.67	J.P. Marohy Hwy	16	Asbestos Cement	130	WW 1980	1382	23.12	0.04	0.000
	P.69	J.P. Murphy Hwy	16	Asbestos Cement	130	WW 1980	1060	25.08	0.04	0.000
	P_60	Kevs Wav	12	Ductile Iron	135	WW 1998	1157	-3.50	0.01	0.000
	P-70	Providence St.	12	Cast iron	80	WW 1968	823	97.79	0.28	0.070
	P.71	Crudale Rd.	12	Ductile Iron	140	WW 2000	256	2.25	0.01	0.000
-	P-72	Szydio Dr.	12	Ductile Iron	140	WW 2000	841	-0.83	0.00	0.000
	P-73	Lacroix Dr.	12	Ductile Iron	140	WW 2000	80	1.54	0.00	0.000
	P-74	Crudale Rd.	12	Ductile Iron	140	WW 2000	311	1.54	0.00	0.000
	P-75	Energy Way	12	Ductile Iron	140	WW 2000	1034	11.90	0.03	0.000
	P-76	Crudale Dr.	12	Ductile Iron	140	WW 2000	1390	10.36	0.03	0.000
	P-78	Draw Bridge Dr.	16	Ductile Iron	135	WW 1991	213	-345.60	0.00	0.020
	P-79	Legend Way	16	Ductile Iron	135	WW 1991	273	-367.94	0.02	0.000
	P-80	Easement Connection	16	Ductile Iron	135	WW 1998	1838	40.4/ 127 1F	1 24	0.050
	P-81	East Greenwich Ave.	12	Ductile fron	140	WW 2000	220		0.07	0.000
	P-82	Anderson Ave.	6	Asbestos Cement	115	WWW 1941	239	0.10	0.07	0.000
	P-83	Forest Ave.	2	Copper	130	WW 1941	302	1 54	0.02	0.000
	P-85	Fox Run	6	Ductile iron	130	WW 1880	117	-158.98	0.45	0.010
	P-86	East Greenwich Ave.	12	Ductile Iron	140	WW 2000	247	217.79	0.62	0.030
	P-87	East Greenwich Ave.	12	Docale non						

KCWA Model Update Pipeline Database Average Day

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	Label	Description	Diameter (in)	Material	Hazen- Williams C	Notes	Length (ft)	Discharge (gpm)	Velocity (ft/s)	Calculated Friction Headloss (ft)
i F	P.89	Flanders Dr	12	Ductile Iron	140	WW 2000	604	-378.31	1.07	0.220
+	P-90	Eact Greenwich Ave	12	Ductile Imn	140	WW 2000	389	142.12	0.40	0.020
 -		Ecost Orecitiviti Ave	6	Ashestos Cement	115	WW 1941	259	-1.16	0.01	0.000
- F	P-90	Victory Ave		Asbestos Cement	115	WW 1941	406	-2.70	0.03	0.000
ŀ	P-91	Setian Lo	12	Asbestos Cement	125	WW 1969	764	187.07	0.53	0.090
ŀ	P-92	Steahoth Ct		Asbestos Cement	130	WW 1000	561	154	0.01	0.000
-	P-94	Children Ct		Asbestos Cement	130	WM/ 1077	1003	154	0.01	0.000
	- 95	Royal Dr.		Asbestos Cement	130	1444 1070	1/25	0.00	0.00	0.000
- 1		Hatneway Ur.	8	Aspesios Cement	100	1444/ 1070	620	0.00	0.00	0.000
	P-97	Carolyn Dr.	8	Aspestos Cement	130	VVVV 1970	520	-0.50	0.01	0.000
ļ	P-98	Carolyn Dr.	8	Asbestos Cement	130	VVVV 1978	007	0.00	0.00	0.000
1	P-99	Kimberly Ln.	8	Asbestos Cement	130	WW 1975	450	-2.50	0.02	0.000
1	P-100	Kimberly Ln.	6	Asbestos Cement	130	WW 1975	901	1,54	0.02	0.000
1	P-101	Kimberly Ln.	8	Asbestos Cement	130	WW 1975	247	3.66	0.02	0.000
	P-102	Anderson Ave.	6	Asbestos Cement	115	WW 1941	289	-4.24	0.05	0.000
Ī	P-103	Tumer Dr.	8	Asbestos Cement	130	WW 1975	1029	-34.70	0.22	0.040
[P-104	Spruce Ct	6	Asbestos Cement	130	WW 1978	196	1.54	0.02	0.000
1	P-105	Turner Dr.	8	Asbestos Cement	130	WW 1975	325	-7.69	0.05	0.000
	P-106	Turner Dr.	8	Asbestos Cement	130	WW 1975	290	-37.77	0.24	0.010
_	P-107	Michael St.	6	Asbestos Cement	130	WW 1971	291	-47.01	0.53	0.070
	P-108	Michael St	6	Asbestos Cement	130	WW 1971	349	1.54	0.02	0.000
ł	P-100	Claire St	6	Asbestos Cement	125	WW 1964	521	-50.08	0.57	0.160
1	P-110	Claire St	8	Aspestos Cement	125	WW 1964	322	-53.16	0.60	0.110
	B_111	Edwards Ct		Ashestos Cement	125	WW 1967	185	1.54	0.02	0.000
-, I	D-142	Now London Tak		Ashector Coment	120	WW 1959	992	-341.59	0.97	0.400
ļ	P*112	New London T-k	40	Asheetas Comert	120	WW 1050	90	0.00	0.00	0.000
	P-113	New London Tpk.	- 12	Achector Comort	120	WW 1050	2495	-374 74	1.06	1,190
1	P-114	New London Tpk.		Ashertes Comort	120	WW 1075	629	1 54	0.01	0.000
	P-115	leite Mar Ur.		Aspestos Cement	1.30	MM 1973	662	45 70	0.01	0.000
	P-116	East Greenwich Ave.	12		140	VVV 2000	240	50.00	0.13	0.000
:	P-117	Providence St.	12	Ductile Iron	140	<u>VVVV 2003</u>	500	39.98	0.07	0.000
	P-119	Linden Dr.	6	Asbestos Cement	115	WW 1941	590	1.04	0.02	0.000
	P-120	Setian Ln.	8	Aspestos Cement	130	WW 1976	04/	-97.00	0.62	0.100
	P-121	Setian Ln.	8	Asbestos Cement	130	WW 1976	142	-267.37	$\frac{1.71}{1.10}$	0.230
	P-122	Surrey Ln.	8	Asbestos Cement	130	WW 1975	2015	-28.83	0.18	0.050
·•	P-123	Surrey Ln.	8	Asbestos Cement	130	WW 1975	695	37.89	0.24	0.030
	P-124	Pine Orchard Rd.	8	Asbestos Cement	130	WW 1977	794	17.55	0.11	0.010
	P-125	Pine Orchard Rd.	8	Asbestos Cement	130	WW 1977	720	-12.32	80.0	0.000
	P-126	Pine Orchard Rd.	8	Asbestos Cement	130	WW 1977	1761	-21.88	0.14	0.030
	P-128	Cold Spring Dr.	8	PVC	130	WW 1985	297	3.08	0.02	0.000
··	P-129	Cold Spring Dr.	8	PVC	130	WW 1985	780	0.74	0.00	0.000
	P-130	Cold Spring Dr	8	PVC	130	WW 1985	661	-0.80	0.01	0.000
	P-131	Loopers Run	8	Ductile Iron	135	WW 1997	1135	39.14	0.25	0.050
	P-132	Loggers Run	8	Ductile Iron	135	WW 1997	265	-17.14	0.11	0.000
	P-132			Ductile Imn	135	WW 1997	432	-18.68	0.12	0.000
	P-133	Dise Omberd Rd	- 12	Achertos Coment	125	WW 1969	672	94.65	0.27	0.020
	P-134	Pine Orchard Rd.		Asbestos Comort	125	WAW 1969	1116	0.00	0.00	0.000
	P-135	Lonsdale St.	12	Aspestos Cement	125	VA0A/ 1060	1158	-35.69	0.10	0.010
	P-136	Lonsdale St.	- 12	ASDESIDS CEMER	120	1404/ 1009	000	1.54	0.01	0.000
	P-137	Sturbridge Way	8	Ductile iron	135	1404/ 1990	1421	67.43	0.16	0.020
-	P-138	Kulas Rd.	12	Asbestos Cement	130	VVVV 1970	1421	0.00	0.10	0.020
	P-139	Kulas Rd.	8	Aspestos Cement	130	WW 1970	1 231	0.00	0.00	0.000
	P-140	Maryland Dr.	6	Asbestos Cement	110	WW 1939	6/2	9.93	U.11	0.010
	P-141	Birchwood Ln.	8	Asbestos Cement	125	WW 1969	467	-3.64	0.02	0.000
	P-142	Brichwood Ln.	8	Asbestos Cement	125	WW 1969	575	-1.98	0.01	0.000
	P-143	Robin Ln.	8	Asbestos Cement	125	WW 1969	207	42.33	0.27	0.010
	P-144	Robin Ln.	8	Asbestos Cement	125	WW 1969	404	20.10	0.13	0.010
	P-145	Crossland Rd.	6	Asbestos Cement	110	WW 1939	184	1.54	0.02	0.000
	P-146	Laural Ln.	8	Asbestos Cement	125	WW 1969	601	8.80	0.06	0.000
	P-147	Laural I n	8	Asbestos Cement	125	WW 1969	532	9.76	0.06	0.000
	P-149	Laurailn	8	Asbestos Cement	125	WW 1969	721	4.06	0.03	0.000
	0,140	Hamback La	8	Aspestos Cement	125	WW 1969	525	3.20	0.02	0.000
	D 160	Homlock In	A A	Asbestos Cement	125	WW 1969	218	6.25	0.04	0.000
	F-150	Homiook in	8	Achestos Cement	125	WW 1969	539	-20.69	0.13	0.010
	P-151	Liemboom (n	2	Achectoc Cement	130	WW 1977	302	25.40	0.16	0.010
	P-152	nombeam Ln.		Ourtile Ima	140	WW 2003	309	48.52	0.14	0.000
	P-153	Providence St.	- 12		140	WW 2003	321	45.44	0.13	0.000
	P-154	Providence St.			116	WW 1040	487	1 54	0.02	0.000
	P-155	Fernwood Dr.	6	Aspestos Cement	110	WAA/ 1077	115	14 76	0.00	0.000
	P-156	Pinewood Dr.	8	Aspestos Cement	130	1404/ 40EE	193	11 54	0.13	0.010
	P-157	Maywood Dr.	6	Asbestos Cement	120	VVVV 1900	- 001	0.62	0.13	0.000
	P-158	Marco Dr.	8	Asbestos Cement	130	WW 1977	- 319	-0.03	0.00	0.000
	P-159	Crossland Dr.	6	Asbestos Cement	110	WW 1939	62/	-0.00	0.00	0.000
	P-160	Huckleberry Dr.	8	Asbestos Cement	130	WW 1977	2/9	5.15	0.03	0.000
	P-161	Pinewood Dr.	8	Asbestos Cement	130	WW 1977	319	8.07	0.05	0.000
	P-162	Providence St.	12	Ductile Iron	140	WW 2003	322	32.3/	0.09	0.000
	P-163	Marco Dr.	8	Asbestos Cement	130	WW 1977	319	-4.24	0.03	0.000
—	P-164	Hopedale Dr.	6	Asbestos Cement	110	WW 1939	673	15.44	0.18	0.030
	P.185	Midland Dr.	8	Asbestos Cement	130	WW 1977	579	1.61	0.01	0.000
	P-166	Marco Dr.	8	Asbestos Cement	130	WW 1977		4.93	0.03	
	D 167	Crossland Dr	6	Asbestos Cement	110	WW 1939	317	<u>-16.85</u>	0.19	0.020
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- I-	P-169	Marco Dr		Ashestos Cement	130	WW 1977	319	-4.31	0.03	0.000
	D 160	Hoodale Dr	6	Achestos Comont	110	WW 1939	375	30.75	0.35	0.060
_	P-109	Stopey Creek Dr	8	Ashestos Cement	130	WW 1977	571	0.26	0.00	0.000
	D 171	Bingwood Dr.		Achectoc Cement	130	WW 1977	328	3.13	0.02	0.000
- I-	D 470	Pinewood Dr.		Ashestos Cement	130	WW 1977	157	1.54	0.01	0.000
	P-1/2	Pinewood Dr.		Asbestos Comont	130	WW 1077	345	3.02	0.02	0.000
	P-1/3	Marco Dr.	0	Asbestos Comort	120	VARA/ 1077	226	1 54	0.01	0.000
	P-1/4	Marco Dr.	0	Asbestos Cement	130	VAAN 1077	568	0.06	0.00	0.000
	P-175	whitebirch Lh.		Asbestos Cernent	130	1444 1577	210	9.10	0.06	0.000
- I_	P-176	Pinewood Ur.	- 8	Asbestos Cement	130	MAA/ 1077	135	1.54	0.00	0.000
	P-177	Pinewood Dr.	8	Asbestos Cement	130	VVVV 1977	133	6.02	0.01	0.000
_	P-178	Juniper Dr.	8	Asbestos Cement	130	VVVV 1977	211	7.00	0.04	0.000
	P-180	Woodland Dr.	6	Aspestos Cement	120	VVVV 1950	210	2.05	0.03	0.000
·. L	P-181	Juniper Dr.	8	Asbestos Cement	130	WWW 1977	500	3.00	0.02	0.000
	P-183	Watervalley Rd.	8	PVC	130	WW 1984	582	4.02	0.03	0.000
	P-184	Watervalley Rd.	8	PVC	130	WW 1984	130	1.34	0.01	0.000
	P-185	Deer Run	8	PVC	130	WW 1964	202	1.54	0.01	0.000
	P-187	East Greenwich Ave.	12	Ductlie iron	140	WW 2000	3027	7.05	0.02	0.000
	P-188	Timber Walk (Private Line)	6	Ductile Iron	130	WW 1988	472	1.54	0.02	0.000
	P-189	Woodland Dr.	6	Asbestos Cement	120	WW 1950	509	1.54	0.02	0.000
	P-190	Shortway Dr.	6	Asbestos Cement	120	WW 1950	262	4.62	0.05	0:000
1-	P-191	Midway Dr.	6	Asbestos Cement	120	WW 1952	398	1.54	0.02	0.000
F	P-192	Shortway Dr.	6	Asbestos Cement	120	WW 1950	199	1.54	0.02	0.000
F	P-193	Hopedale Dr.	6	Asbestos Cement	110	WW 1939	581	21.51	0.24	0.050
∵• -	P-104	Glendale Dr	6	Asbestos Cement	120	WW 1950	310	9.20	0.10	0.000
H	P.105	Giendale Dr	6	Asbestos Cement	120	WW 1950	313	6.19	0.07	0.000
H	D_104	Fofiald Dr		Asbestos Cement	120	WW 1950	561	-7.73	0.09	0.010
-	P-190	Chostway Dr.	6	Asbestos Cement	120	WW 1950	319	13.85	0.16	0.010
Ļ	P-197			Achaetee Cement	120	WW 1950	668	12.31	0.14	0.020
L	P-198	Janet Ur.		Acheetos Camart	120	WW 1950	386	10.77	0.12	0.010
-	P-199	Alden Dr.		Aspestos Cemeric	120	VAN/ 1057	307	1 54	0.02	0.000
	P-200	Shortway Dr.		Aspestos Cement	120	VAN/ 1050	172	7.69	0.09	0.000
	P-201	Alden Dr.	6	Aspestos Cement	120	1404/ 4050	1/2	1.05	0.02	0.000
	P-202	Alden Dr.	6	Asbestos Cement	120	VVVV 1950	202	1.04	0.02	0.000
L	P-203	Brookdale Dr.	6	Asbestos Cement	120	WW 1957	1029	4.02	0.03	0.000
	P-204	Brookdale Dr.	8	Asbestos Cement	130	WW 1977	300	3.06	0.02	0.000
- T	P-205	Steven Dr.	8	Asbestos Cement	130	WW 1977	1000	1.54	0.01	0.000
	P-206	Glendale Dr.	6	Asbestos Cement	120	WW 1950	323	10.77	0.12	0.010
	P-207	Alden Dr.	6	Asbestos Cement	120	WW 1950	367	1.54	0.02	0.000
-	P-208	Glendale Dr.	6	Asbestos Cement	120	WW 1950	1322	7.69	0.09	0.010
··- ト	P-209	Glendale Dr.	6	Asbestos Cement	120	WW 1950	209	1.54	0.02	0.000
L L	P-210	Suncrest Dr.	6	Asbestos Cement	120	WW 1950	339	4.62	0.05	0.000
ŀ	P-211	Oakland Dr.	6	Asbestos Cement	120	WW 1950	615	1.54	0.02	0.000
ŀ	P-212	Oakland Dr.	6	Asbestos Cement	120	WW 1950	311	1.54	0.02	0.000
- F	P-213	Providence St.	12	Ductile Iron	140	WW 2003	308	15.39	0.04	0.000
ŀ	P-914	Aidea Dr	6	Asbestos Cement	110	WW 1939	467	1.54	0.02	0.000
H	D.915	Providence St	12	Ductile Iron	140	WW 2003	318	12.31	0.03	0.000
ŀ	P-210	Contrill Dr	6	Ashestos Cement	110	WW 1939	670	7.70	0.09	0.010
	P-210	Overhill Dr.		Copper	70	WW 1939	302	1.54	0.63	2.690
 	P-217	Overna D.		Achestos Cement	110	WW 1939	324	3.08	0.03	0.000
	P-218	Crossiand Dr.		Asbestos Cement	110	WW 1939	240	1.54	0.02	0.000
ļ	P-219	Alden Ur.	<u> </u>	Asbartes Coment	110	WAA/ 1030	164	1 54	0.02	0.000
1	P-220	Crossland Dr.		Aspestos Cement	110	VAA/ 2002	211	-1 04	0.01	0.000
L L	P-221	Providence St.	12	Ducule from	140	1464/ 4047	473	1.64	0.02	0.000
[P-222	Oakland Dr.	6	Aspestos Cement	115	¥¥¥¥ 194/	4/3	1 0.00	0.02	0.000
_ [P-223	Providence St.	12	Ductile Iron	140	VVVV 2003	1013	0.00	0.00	0.000
	P-224	River St.	10	Cast iron	70	VVW 1928	2/3	3.80	0.02	0.000
ľ	P-225	Aster St.	6	Asbestos Cement	130	WW 1973	778	1.68	0.09	0.010
1	P-226	Aster St.	6	Asbestos Cement	130	WW 1973	339	1.54	0.02	0.000
l l	P-227	Daisy St.	6	Asbestos Cement	130	WW 1977	302	4.62	0.05	0.000
	P-228	Daisy St.	6	Asbestos Cement	130	WW 1977	183	1.54	0.02	0.000
·- }	P-229	Begonia St.	6	Asbestos Cement	130	WW 1978	308	1.54	0.02	0.000
ł	P-230	River St.	10	Cast iron	70	WW 1928	867	13.03	0.05	0.010
	P-231	River St.	8	Cast Iron	80	WW 1928	768	4.96	0.03	0.000
	P-232	Providence St.	8	Cast Iron	80	WW 1928	1303	-5.44	0.03	0.000
ł	P.233	Wakefield St.	8	Ductile Iron	135	WW 1995	774	7.69	0.05	0.000
·	P.224	Intervale Rd	6	Asbestos Cement	125	WW 1964	647	1.54	0.02	0.000
	P 225	Wakafield St	8	Ductile Iron	135	WW 1995	318	4.62	0.03	0.000
	P 232	Crossland Rd	- 	Asbestos Cement	110	WW 1939	623	1.54	0.02	0.000
-	P 200	UIUSSIAIRI RU.		Ductile Imn	135	WW 1995	1170	1.54	0.01	0.000
	P-237	VVakenerd St.		Cartimo	70	WW 1928	1008	-3.56	0.02	0.000
~	P-238	Providence SL		Contine	70	WW 1928	91	-50.01	0.32	0.020
i	P-239	Providence St.		Cast iron	40	WW 1028	325	8.05	0.09	0.030
	P-240	Market St.	<u></u> е		40	VAN 1028	836	-14 32	0.16	0.210
	P-241	Greenhill St.	6	Cast fron		VAAV 1029	500	-59.60	0.38	0.180
	P-242	Providence St.	8	Cast Iron		VAAN 1020	764	1 54	0 16	1.120
. 1	P-243	Sheldon St.	2	Galvanized iron		VVVV 1920	1 220	AA 01	0.20	0.060
	P-244	Prospect Hill Ave.	8	Cast iron		VVVV 1928	200	4 64	0.00	0.000
	P-245	Prospect St.	6	Cast iron	40	VVVV 1928	000	41.04	0.02	0 110
	P-246	Prospect Hill Ave.	8	Cast iron		WW 1928	6/3	41.03	- 0.27	0,000
	P-247	McTeers Ct.	6	Cast iron	40	WW 1928	358	1.94	0.02	0.000

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		i	···· · · · · · ·						Calculated
Label	Description	Diameter	Material	Hazen- Williams C	Notes	Length (ft)	Discharge (gpm)	Velocity (ft/s)	Friction Headloss (ft)
D 249	Proceed Hill Ave		Castimn	70	WW 1928	366	38.76	0.25	0.050
P-240	Prospect Hill Ave	- 8	Cast iron	70	WW 1928	77	-29.76	0.19	0.010
P-250	Barbers Ct	6	Ductile Iron	140	WW 2000	370	1.54	0.02	0.000
P-251	Fiume St.	6	Cast iron	40	WW 1928	179	7.46	0.08	0.010
P-252	Fiume St.	6	Cast Iron	40	WW 1928	722	5.92	0.07	0.040
P-253	Fiume St.	6	Cast iron	40	WW 1928	313	4.38	0.05	0.010
P-254	Prospect Hill Ave.	8	Cast iron	70	WW 1928	734	-26.68	0.17	0.050
P-255	Prospect Hill Ave.	8	Cast iron	70	WW 1928	158	29.52	0.19	0.010
P-256	Wilson St.	6	Cast iron	40	WW 1928	1147	1.54	0.02	0.000
P-257	Prospect Hill Ave.	8	Cast iron	70	WW 1928	296	26.44	0.17	0.020
P-258	Tripoli St.	6	Cast iron	75	WW 1928	135	12.41	0.14	0.010
P-259	Tripoli St.	6	Cast iron	70	WW 1928	337	1.54	0.02	0.000
P-260	Prospect Hill Ave.	6	Asbestos Cement	130	WW 1981	288	3.08	0.03	0.000
P-263	Lancellotta St.	6	Asbestos Cement	130	VVVV 1981	301	112.24	0.02	0.000
P-264	Penta St.	12	Ouctile Iron	135	VVVV 1994	4/5	-121.01	0.34	0.020
P-265	Bowen Ct.	12	Ductile fron	130	1994 1994	535	-121.01	0.35	0.030
P-266	Nobile St.	12	Ductive Iron	130	MAA/ 1028	450	-122.35	0.00	0.020
P-267	Penta St.	6	Cast Iron	40	1444/ 1920	678	-4.69	0.05	0.020
P-268	Water St.		Cast iron	40	WW 1920	251	-37 79	0.24	0.030
P-269	Providence St.	8	Duratile term	126	WW 1006	159	-40.94	0.26	0.010
P-270	Providence SL	10	Ductile iron	140	WW 2004	346	-19.02	0.05	0.000
P-2/1	Providence St.	- 1 <u>2</u>	Ductile Imp	135	WW 1996	243	-20.38	0.13	0.000
P 272	Providence St.	0 A	Cast imp	70	WW 1928	202	-21.77	0.14	0.010
P-2/3	Coco St	2	Castimo	40	WW 1928	488	-2.36	0.03	0.000
P-276	Rail Ave	8	Cast iron	40	WW 1928	684	-0.82	0.01	0.000
P-279	Brauton Ave		Ductile Imn	140	WW 2001	880	1.54	0.01	0.000
P-280	Rincent St	- ă	Cast iron	45	WW 1930	257	7.70	0.09	0.020
D.291	Blossom St		Cast iron	45	WW 1930	658	6.16	0.07	0.030
P-282	Autourn St	6	Asbestos Cement	125	WW 1960	561	1.54	0.02	0.000
P-283	Biossom St	6	Asbestos Cement	125	WW 1960	551	3.08	0.03	0.000
P-284	Circle Dr.	6	Asbestos Cement	125	WW 1960	339	1.54	0.02	0.000
P-286	Newell St.	6	Ductile Iron	135	WW 1993	215	23.09	0.26	0.010
P-287	River Ave.	6	Ductile Iron	135	WW 1993	1048	7.54	0.09	0.010
P-288	Petti Dr.	6	Ductile Iron	135	WW 1993	274	6.00	0.07	0.000
P-289	Lafayette St.	6	Ductile fron	135	WW 1993	946	-3.76	0.04	0.000
P-290	Newell St.	6	Ductile Iron	135	WW 1993	307	-14.01	0.16	0.010
P-291	Newell St.	6	Ductile Iron	135	WW 1993	302	8.71	0.10	0.000
P-292	Fornelli St.	6	Asbestos Cement	115	WW 1941	715	1.54	0.02	0.000
P-293	Petti Dr.	6	Ductile Iron	135	WW 1993	540	-8.22	0.09	0.010
P-294	Newell St.	6	Ductile Iron	135	WW 1993	309	5.63	0.06	0.000
P-295	Ivy St_	6	Asbestos Cement	115	WW 1948	735	4.09	0.05	0.000
P-296	Babcock St.	8	Asbestos Cement	125	WW 1967	373	10.77	0.07	0.000
P-297	Cantara St.	6	Asbestos Cement	125	WW 1967	429	1.54	0.02	0.000
P-298	Babcock St.	8	Asbestos Cement	125	WW 1967	274	1.70	0.05	0.000
P-299	Napolean St.	6	Asbestos Cement	125	WW 1967	406	1.54	0.02	0.000
P-300	Babcock St.	8	Asbestos Cement	125	WW 1967	331	4.02	0.03	0.000
P-301	Newell St.	6	Asbestos Cement	130	WW 1980	/90	U./4	0.01	0.000
P-302	Moran St.	8	Asbestos Cement	125	1 YVV 196/	470	1 54	0.01	0.000
P-303	Newell St.	8	Aspestos Cement	125	VVVV 190/	220	24 82	0.01	0.000
P-304	Providence St.	6	Cast iron	40	VVVV 1928	232	24.02	1 04	4 830
P-305	Providence St.	10	Cast iron	10	1079	1006	40 75	0.26	0.050
P-306	Tanglewood Dr.	8	Aspestos Cement	130	WAAI 1079	532	22 70	0 15	0.010
P-307	Tanglewood Dr.	- 8	Aspestos Cement	130	WW/ 1978	405	19.50	0.12	0.010
P-308	Momingside Dr.		Asheetos Comort	130	WW 1976	388	12.30	0.08	0.000
P-309	Tower Rd.		Asbestos Cement	130	WW 1980	361	8.90	0.06	0.000
P-310		- <u>0</u>	Asheetos Coment	130	WW 1976	1248	4.94	0.03	0.000
P-311	Lower Kd.		Ashestos Coment	130	WW 1972	874	2.05	0.01	0.000
P-312	Toward Rd		Ashestos Cement	130	WW 1976	857	8.52	0.05	0.000
P-313	Muskat Dd	8	Aspestos Cement	130	WW 1980	945	8.40	0.05	0.000
P-314		Q	Asbestos Cement	130	WW 1976	426	18.46	0.12	0.000
P-315	Tandewood Dr		Asbestos Cement	130	WW 1978	642	15.92	0.10	0.010
P.317	Tandewood Dr.	8	Asbestos Cement	130	WW 1978	960	12.02	0.08	0.000
P-319	Mominoside Dr	8	Asbestos Cement	130	WW 1978	1078	10.58	0.07	0.000
P-310	Mark Fore Dr	8	Asbestos Cement	130	WW 1980	1158	10.45	0.07	0.000
P-320	Greenbeer Rd	8	Asbestos Cement	130	WW 1976	663	2.73	0.02	0.000
P-321	Greenbrier Rd.	8	Asbestos Cement	130	WW 1976	550	14.73	0.09	0.000
P-322	fron Dr.	8	Asbestos Cement	130	WW 1972	247	2.36	0.02	0.000
P-323	Mominaside Dr.	8	Asbestos Cement	130	WW 1978	376	9.39	0.06	0.000
P-324	New London Ave.	8	Asbestos Cement	130	WW 1972	1460	10.93	0.07	0.010
P-325	Iron Dr.	8	Asbestos Cement	130	WW 1972	471	13.91	0.09	0.000
P-326	New London Ave.	8	Asbestos Cement	130	WW 1972	913	26.38		0.020
P-327	Tanglewood Dr.	8	Asbestos Cement	130	WW 1978	453	35.91	0.23	0.020
P-328	New London Ave.	8	Asbestos Cement	130	WW 1972	1090	61.45	0.52	0.030
P-329	Factory St.	8	Asbestos Cement	115	WW 1940	320	24.04	0.05	0.000
P-330	Hilltop Ave.	6	Asbestos Cement	120	WW 1950	1042	4.74	0.05	0.000

~ [Label	Description	Diameter (in)	Material	Hazen- Williams C	Notes	Length (ft)	Discharge (gpm)	Velocity (ft/s)	Calculated Friction Headloss (ft)
-	P-331	Park Blvd.	8	Asbestos Cement	120	WW 1950	310	-18.57	0.12	0.000
	P-332	New London Ave	8	Asbestos Cement	115	WW 1940	832	29.89	0.19	0.030
	P-333	Factory St.	8	Asbestos Cement	115	WW 1940	323	51.44	0.33	0.030
	P-334	Queen Ave.	6	Asbestos Cement	115	WW 1948	407	-10.32	0.12	0.010
	P-335	Rex St.	8	Ductile fron	140	WW 2000	404	0.43	0.00	0.000
	P-336	Rex St.	8	Ductile fron	140	WW 2000	628	1,97	0.01	0.000
	P-337	Park Blvd.	8	Asbestos Cement	120	WW 1950	346	-27.95	0.18	0.010
	P-338	Queen Ave.	6	Asbestos Cement	115	WW 1948	609	-9.21	0.10	0.010
	P-339	Park Blvd.	8	Asbestos Cement	120	WW 1950	332	-26.39	0.17	0.010
-	P-340	Factory St.	8	Asbestos Cement	115	WW 1940	593	63.30	0.40	0.080
	P-341	Webster Knight Dr.	6	Asbestos Cement	130	WW 1971	503	1.54	0.02	0.000
r	P-342	Factory St.	8	Asbestos Cement	115	WW 1940	254	66.38	0.42	0.040
	P-343	Earl St.	4	Cast iron	45	WW 1935	479	0.29	0.01	0.000
· ·	P-344	First St.	4	Cast iron	45	WW 1937	417	-1.25	0.03	0.010
	P-345	Border St.	4	Cast iron	30	WW 1885	489	-2.79	0.07	0.070
	P-346	Factory St.	8	Asbestos Cement	115	WW 1940	456	71.83	0.46	0.080
	P-347	Border St.	6	Asbestos Cement	120	WW 1950	981	-24.07	0.27	0.080
[P-348	Third St.	6	Cast iron	50	WW 1941	446	17.63	0.20	0,110
	P-349	Earl St.	4	Cast Iron	45	WW 1935	1000	-3.62	0.09	0.110
. [P-350	Park Blvd.	8	Asbestos Cement	120	WW 1950	3/8	31.46	0.20	0.010
· [P-351	Border St.	6	Asbestos Cement	120	WW 1950	827	-4.90	0.06	0.000
	P-352	Border St.	6	Aspestos Cement	120	VVVV 1950	749	-3.30	0.04	0.000
· . L	P-353	Earl St.	6	Cast iron	45	WWW 1935	400	11./5	0.13	0.100
- I-	P-354	Queen Ave.	6	Aspestos Cement	115	VVVV 1946	326	-5.23 6 16	0.10	0.000
L	P-356	Queen Ave.	6	Aspestos Cement	115	WAN 1049	340	4.62	0.05	0.000
Ļ	P-357	St. George St.	0 	Asbestos Coment	110	WW 1048	193	1.54	0.02	0.000
-	P-358	St. George St.	6	Asbestos Cement	120	WW 1952	230	1.54	0.02	0.000
····	P-359	Find St	4	Cast imn	45	WW 1935	261	9.92	0.25	0.190
H	P-300	Sath Dr	6	PVC	130	WW 1987	340	4.62	0.05	0.000
ŀ	P-362	Seth Dr.	6	PVC	130	WW 1987	164	1.54	0.02	0.000
-	P-363	Shape Dr	6	PVC	130	WW 1987	291	1.54	0.02	0.000
ŀ	P-364	Ead St	4	Cast iron	45	WW 1935	388	16.08	0.41	0.700
- F	P-365	Ledgemont Ct.	6	Asbestos Cement	130	WW 1975	407	1.54	0.02	0,000
l l	P-366	Earl St.	4	Cast iron	45	WW 1935	1269	19.16	0.49	3.190
·**	P-367	New London Ave.	4	Cast iron	45	WW 1932	1516	16.38	0.42	2.850
	P-370	New London Ave.	6	Cast iron	45	WW 1932	592	37.63	0.43	0,720
. [P-371	New London Ave.	6	Cast iron	45	WW 1932	611	-42.24	0.48	0.920
	P-372	New London Ave.	6	Cast iron	45	WW 1932	439	-46.85	0.53	0.800
	P-373	Bishop St.	6	Asbestos Cement	115	WW 1940	337	3.08	0.03	0.000
	P-374	Edith St.	6	Asbestos Cement	130	WW 1975	295	1.34	1 20	0.000
	P-375	Wells St.	6	Asbestos Cement	115	WW 1940	317	140 40	1.30	0.550
	P-376	Wells St.	6	Asbestos Cement	115	WW 1940	1421	1.54	0.02	0.020
	P-377	Leaf St.	6	Aspestos Cement	115	1444	1007	116.86	1 33	1 510
	P-378	Perkins St.		Aspestos Cement	125	VANA/ 1064	196	1 54	0.02	0.000
	P-379	Perkins St.	<u>0</u>	Asbestos Cement	120	WW 1952	348	113 78	1.29	0.530
	P-380	Lionei Ave.		Cast imp	60	WW 1939	239	1.54	0.02	0.000
	P-381	Lexington Ave.	- 0		120	WW 1952	366	110.70	1.26	0,530
	D-392		8	Cast iron	45	WW 1939	691	12.01	0.14	0.100
	0.304	Watte St		Ductile Iron	135	WW 1993	202	3.08	0.03	0.000
	P.385	Edna St	6	Ductile Iron	130	WW 1988	310	1.54	0.02	0.000
	P.386	Lexingtion Ave.	6	Cast fron	45	WW 1939	1223	7.40	0.08	0.070
	P-387	Ridoe St.	6	Cast iron	45	WW 1939	296	97.15	1.10	2.090
	P-388	Lenox Ave.	6	Ductile Iron	135	WW 1993	629	1.54	0.02	0.000
	P-389	Ridge St.	6	Asbestos Cement	115	WW 1945	335	92.53	1.05	0.380
	P-390	Revere Ave.	6	Asbestos Cement	115	WW 1941	288	1.54	0.02	0.000
	P-391	Lenox Ave.	2	Gatvanized iron		WW 1993	260	1.54	1.02	0.300
	P-392	Revere Ave.	6	Asbestos Cement	115	WW 1941	816	09.40	0.40	0.070
	P-393	Revere Ave.	6	Aspestos Cement	115	WW 1941	204	-11.50	0.40	1 310
	P-394	Concord Ave.	2	Galvanized iron	405	VVV 1925	2024	1 44	0.27	0.000
	P-395	Lenox Ave.	6			WAN 1032	003	-5 74	0.15	0.270
	P-396	Lenox Ave.	4	Last 100	40	WW 1041	1013		0.46	0.250
	P-397	Revere Ave.		Ashastas Cement	120	WW 1954	348	129.85	1.47	0.680
	P-398	Mason St.	- 0 A	Ashestoc Cament	125	WW 1969	912	1.54	0.02	0.000
	P-399	Euter Ave.	8	Asbestos Cement	120	WW 1954	314	23.00	0.26	0.020
	P-400	Mason SL Mary Ave	8	Asbestos Cement	125		783	4.62	0.05	0.000
	P-401	Faron St	6	Asbestos Cement	125	WW 1969	345	1.54	0.02	0.000
	P-402	Mary Ave	6	Asbestos Cement	125	WW 1969	174	1.54	0.02	0.000
	P-404	Mason St.	2	Copper	70	WW 1932	311	16.84	1.72	7.950
	P-405	Bel Air Ave.	6	Asbestos Cement	130	WW 1976	347	1.54	0.02	0.000
	P-406	Mason St.	6	Asbestos Cement	120	WW 1954	255	13.76	0.16	1 260
	P-407	Tampa St.	2	Copper	70	WW 1932	- 274	1 64	0.00	0.230
	P-408	Davis St.	2	Copper		1444/ 194/	263	1.04	1.00	2.450
	P-409	Tampa St.	2	Copper		WAN 1040	203	1.54	0.16	0.090
	P-410	Miami St.	2	Copper	1 /0	1. 1111 1343				

- [Diameter		Hazen-			Discharge	Velocity	Calculated Friction
	Label	Description	(in)	Material	Williams C	Notes	Length (Tt)	(gpm)	(11/5)	
	P-411	Tampa St.	4	Cast iron	45	WW 1932	439	-12.04	0.33	0.530
	P-414	Tampa St.	6	Aspestos Cement	130	VVVV 1973	200	17.37	0.21	0.010
- 1	P-415	Noxon St.	6	Aspestos Cement	130	WWW 1973	360	-620	0.20	0.010
	P-416	Noxon St.	0	Asbestos Cement	130	VVVV 1973	807	22.03	0.07	0.050
`	P-41/	Myron St.	0	Aspestos Certiena	45	WAA/ 1038	85	0.11	0.00	0.000
	P-418	Cont Ave.	6	Cast ion	45	WW 1938	307	-13.15	0.15	0.050
	P-419	Colt Ave.	0		125	VVVV 1950	606	_0.04	0.13	0.000
- -	P-421	Penel Ur.	6	Aspestos Cement	123	1404/ 1903	000	-17 55	0.20	0.010
-	P-422	Coit Ave.	6	Cast Iron	45	1404/ 1930	221	-20.38	0.20	0.000
	P-423	Colt Ave.	6	Cast PON	40	1444/ 1001	563	8.40	0.10	0.000
_	P-424	Tampa St.		Aspestos Cement	123	1404/ 1001	415	1.54	0.02	0.000
·	P-425	lampa St.	- <u>b</u>	Aspestos Cement	120	1444/1053	400	5 32	0.06	0.000
	P-426	Hamilton St.	6	Asbestos Cement	120	VVVV 1900	220	1.54	0.00	0.000
	P-427	Evelyn St.	6	Aspestos Cement	115	VVVV 1947	178	2.25	0.02	0.000
	P-428	Hamilton St.	6	Aspestos Cement	120	VVVV 1933	217	A 96	0.00	0.000
	P-429	Coit Ave.	6	Cast iron	40	VVVV 1936	000	-4.00 8.07	0.00	0.010
	P-430	Colt Ave.	6	Cast iron	45	WWW 1938	220	-0.07	0.07	0.010
- L	P-431	Coit Ave.	6	Castiron	45	WW 1938	212	-20.09	0.24	2.090
Γ	P-432	Coit Ave.	6	Cast iron	45	WW 1938	1203	-59.20	0.67	3.390
- F	P-433	Atlantic Ave.	6	Asbestos Cement	125	WW 1966	717	36.77	0.42	0.130
	P-434	Atlantic Ave.	6	Asbestos Cement	125	WW 1966	580	19.01	0.22	0.030
F	P-435	Glen Dr.	6	Asbestos Cement	125	WW 1966	644	1.54	0.02	0.000
_ t	P-436	Lockwood St.	6	PVC	130	WW 1987	744	16.22	0.18	0.030
ŀ	P-437	Carder St.	6	PVC	130	WW 1988	643	-11.72	0.13	0.010
ŀ	P-438	Lockwood St.	6	PVC	130	WW 1987	320	26.41	0.30	0.030
H	P-440	Gien Dr.	6	PVC	- 130	WW 1987	720	15.93	0.18	0.030
L F	P-441	Lockwood St.	6	Asbestos Cement	120	WW 1950	306	39.01	0.44	0.060
~ ŀ	P-443	Lockwood St.	6	Asbestos Cement	120	WW 1950	313	35.60	0.40	0.060
ł	P-444	Hamilton St.	6	Asbestos Cement	120	WW 1953	643	-15.92	0.18	0.030
ŀ	P-445	Coit Ave	6	Cast iron	45	WW 1938	291	-10.35	0.12	0.030
ŀ	P-446	North Gate Dr	6	Asbestos Cement	130	WW 1975	993	-6.95	0.08	0.010
	P-447	Coit Ave	6	Cast iron	45	WW 1938	263	4.93	0.06	0.010
	P-449	Coit Ave	- 6	Cast iron	45	WW 1938	206	-13.43	0.15	0.040
	P 449	Audrey Dr	6	Asbestos Cement	130	WW 1978	635	1.54	0.02	0.000
	P 450	Locine St		Ashestos Cement	120	WW 1950	2400	49.98	0.57	0.800
ŀ	P-450	Coit Ave		Cast iron	45	WW 1938	332	-16.50	0.19	0.090
	P-401	Concessor Ave		Ashestos Cement	120	WW 1950	1024	-61.79	0.70	0.510
	P-432	Debomb Ct		Ductile Imn	135	WW 1990	573	1.54	0.02	0.000
-	P-453	Deporan CC		Ductile Imn	135	WW 1998	238	1.54	0.01	0.000
•	P-456	Pond View Dr.		Ductile iron	135	WW 1998	363	1.54	0.01	0.000
~	P-457	Pond View Dr.		Aebortos Cement	125	WW 1968	278	34.51	0.22	0.010
1	P-458	Loit Ave.	<u>°</u>	Asbestos Cement	130	WW 1979	167	3.08	0.02	0.000
	P-459	Joaquin Ct.	0	Asbestos Coment	130	WW 1979	397	0.75	0.00	0.000
-	P-460	Joaquin Ct.		Asbestos Cement	130	WW 1979	360	-0.79	0.01	0.000
	P-461	Joaquin Ct.	8	Asbestos Cement	125	WAW 1968	711	29.89	0.19	0.020
	P-462	Coit Ave.	8	Aspestos Cemera	120	1404 1050	679	-14 49	0.16	0.020
	P-463	Lockwood St.	<u> </u>	Aspestos Cement	115	VANA/ 1940	710	201 85	1.29	0.850
1	P-464	Cowesett Rd.	<u>8</u>	Aspestos Cemerit	115	WAN 1040	410	-173.50	1 11	0.370
-	P-465	Cowesett Rd.	8	Aspestos Cement	115	WAN 1065	560	62.93	0.71	0.290
	P-466	Jacques St.		Aspestos Cement	120	VAN/ 1055	A03	53 70	0.61	0.270
1	P-467	Cochran St.	6	Aspestos Cement	120	VAN 1000	244	7 70	0.00	0.000
	P-468	Cochran St.	6	Asbestos Cement	120	VVVV 1900	244	1.70	0.05	0.000
	P-469	Judy Ter.	6	Asbestos Cement	125	CORT WWW	314	4.04	0.03	0.000
	P-470	Judy Ter.	6	Asbestos Cement	125	VVVV 1965	201	1.04	0.02	0.000
	P-471	Judy Ter.	6	Asbestos Cement	125	VVV 1905	4/1	1.04	0.02	0.000
	P-472	Cochran St.	6	Asbestos Cement	120	CCET VVVV	250	1.04	0.02	0.000
	P-473	Tina Dr. (Private)	8	Asbestos Cement	115	WWW 1940		034.04	0.01	0.120
	P-474	Cowesett Rd.	12	Asbestos Cement	130	WW 1972	- /11	239.91	1 21	0.830
	P-475	Country Dr.	8	Asbestos Cement	120	WW 1956	842	150.20	0.00	0.000
	P-476	Country Dr.	8	Asbestos Cement	120	WW 1956	564	-153.78	0.00	0.000
	P-477	Country Dr.	6	Asbestos Cement	120	WW 1956	311	44.16	0.50	0.000
	P-478	Country Dr.	6	Asbestos Cement	120	WW 1956	998	19.25	0.22	0.000
	P-479	Fairgreen Dr.	6	Asbestos Cement	120	WW 1956	697	23.37	0.2/	
	P-480	Fairgreen Dr.	6	Asbestos Cement	120	WW 1956	315	41.08	0.47	0.070
	P-481	Meadow Dr.	6	Asbestos Cement	120	WW 1956	857	-38.01	0.43	0.1/0
	P-482	Faircreen Dr.	6	Asbestos Cement	120	WW 1956	536	1.54	0.02	0.000
	P-483	Country Dr.	8	Asbestos Cement	120	WW 1956	340	-199.49	1.27	0.300
	P-484	Quaker Ln.	8	PVC	130	WW 1981	498	215.97	1.38	0.030
	P.485	Quaker Ln.	8	PVC	130	WW 1981	700	162.54		0.440
	P.486	Penin St	8	Asbestos Cement	125	WW 1964	1244	150.67	0.96	0.730
	P_497	Peoin St	8	Asbestos Cement	125	WW 1964	1045	-50.36	0.32	0.080
	P_488	Old Carriage Rd.	8	Asbestos Cement	130	WW 1976	1583	-51.90	0.33	0,120
	P.490	Covesett Rd	12	Asbestos Cement	130	WW 1972	932	-422.08	1.20	0.460
	P 400	Cowesett Rd	12	Asbestos Cement	130	WW 1972	189	_423.62	1.20	0.100
	D.401	Quaker Dr	8	Asbestos Cement	125	WW 1965	829	0.00	0.00	0.000
	P.402	Opaker Dr	8	Asbestos Cemen	125	WW 1965	557	-0.87	0.01	0.000
	P_402	Shady Hill Dr	8	Asbestos Cemen	125	WW 1965	2055	-0.67	0.00	0.000
	D_404	Quaker Dr	8	Asbestos Cement	125	WW 1965	908	0.78	0.00	0.000
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-	Label	Description	Diameter (in)	Material	Hazen- Williams C	Notes	Length (ft)	Discharge (gpm)	Velocity (ft/s)	Friction Headloss (ft)
	P-495	Sycamore Dr.	8	Asbestos Cement	125	WW 1968	1326	-1.63	0.01	0.000
	P-496	Shady Hill Dr.	8	Asbestos Cement	125	WW 1965	355	2.99	0.02	0.000
[P-497	Sycamore Dr.	8	Asbestos Cement	125	WW 1968	1186	-6.16	0.04	0,000
E	P-498	Cowesett Rd.	8	Asbestos Cement	115	WW 1940	80	185.83	1.19	0.080
	P-499	Kulas Rd.	8	Asbestos Cement	130	WW 1970	1375	13.55	0.09	0.010
	P-500	Monterey Dr.	8	Asbestos Cement	125	WW 1963	808	0.00	0.00	0.000
	P-501	Cedar Dr.	6	Asbestos Cement	125	WW 1968	930	•1.93	0.02	0.000
·~	P-502	Cedar Dr.	6	Asbestos Cement	125	VVV 1968	332	-9,23	0.10	0.000
	P-503	Monterey Dr.	8	Aspestos Cement	125	VVVV 1963	321	-1.07	0.00	0.000
-	P-504	Bayberry Dr.	0	Asbestos Cement	125	WW 1904	324	-5.77	0.01	0.000
-	P-303	Monterey Dr.		Asbestos Cement	125	WW 1963	315	-0.08	0.00	0.000
-	P-300	Boodeman Dr	6	Asbestos Cement	125	WW 1969	975	-0.63	0.01	0.000
··· -	P-502	Monterey Dr	8	Asbestos Cement	125	WW 1963	329	-3.16	0.02	0.000
-	P-500	Monterey Dr	8	Ashestos Cement	125	WW 1963	1697	-0.99	0.01	0.000
	P-510	Cowesett Rd.	8	Asbestos Cement	115	WW 1940	499	-175.04	1.12	0.450
-	P-511	Cowesett Rd.	8	Asbestos Cement	115	WW 1940	138	94.31	0.60	0.040
ŀ	P-512	Narragansett Ave.	8	Ductile Iron	140	WW 2001	1223	57.29	0.37	0.100
F	P-513	Narragansett Ave.	8	Ductile Iron	140	WW 2001	568	63.33	0.40	0.050
. F	P-514	Lee St.	6	Asbestos Cement	120	WW 1950	797	-7.58	0.09	0.010
Ľ ľ	P-515	Carlson Cir.	6	Asbestos Cement	120	WW 1950	556	5.01	0.06	0.000
F	P-516	Carlson Cir.	6	Asbestos Cement	120	WW 1950	584	-6.67	0.08	0.000
. T	P-517	Lee St.	6	Asbestos Cement	120	WW 1950	516	4.58	0.05	0.000
t	P-518	Rel St.	6	Asbestos Cement	115	WW 1947	175	10.14	0.12	0.000
	P-519	Dawes St.	8	PVC	130	WW 1986		-2.17	0.01	0.000
f	P-520	Buckley Ave.	6	Asbestos Cement	120	WW 1954	335	10.77	0.12	0.010
t	P-521	Buckley Ave.	6	Asbestos Cement	115	WW 1941	317	9.23	0.10	0.010
	P-522	Boucher St.	6	Asbestos Cement	125	WW 1968	560	1.54	0.02	0.000
1	P-523	Boucher St.	6	Asbestos Cement	125	WW 1968	284	4.02	0.00	0.000
	P-524	Tiffany Ave.	6	Asbestos Cement	125	WWW 1968	217	1.54	0.02	0.000
	P-525	Tiffany Ave.	6	Asbestos Cement	125	VVVV 1968	292	1.54	0.02	0.000
	P-526	Revere Ave.	6	Aspestos Cement	110	WW 1941	130	12.78	0.02	0.000
-	P-527	Lee St.	<u> </u>	Asbestos Cement	120	WW 1954	329	-14.32	0.16	0.010
-	P-528	Dounetos St.		Asbestos Cement	120	WW 1950	1052	9.55	0.11	0.020
	P-529	Canson Cir.	0	Asbestos Cement	120	WW 1954	872	-25.41	0.16	0.020
ł	P-530	Coursett Rd	8	Ashestos Cament	115	WW 1940	786	-29.33	0.19	0.030
ł	P-001	Hollow Cir		Ashestos Cement	125	WW 1968	698	1.54	0.02	0.000
·	P 522	Cowecett Pd	8	Ashestos Cement	115	WW 1940	192	-30.87	0.20	0.010
	P-533	High View Dr	8	Ashestos Coment	125	WW 1967	320	3.08	0.02	0,000
-	P-004 D-635	High View Dr.	8	Asbestos Cement	125	WW 1967	438	0.80	0.01	0.000
	P-536	High View Dr.	8	Asbestos Cement	125	WW 1967	737	-0.74	0.00	0.000
	P-537	Cowesatt Rd	8	Asbestos Cement	115	WW 1940	409	-35.48	0.23	0.020
	P-538	Cowesett Rd.	8	Asbestos Cement	115	WW 1940	247	2.38	0.02	0.000
	P-539	Albion St.	6	Asbestos Cement	115	WW 1949	577	1.54	0.02	0.000
	P-540	Cowesett Rd.	8	Asbestos Cement	115	WW 1940	623	-0.70	0.00	0.000
i	P-541	Berkeley St.	2	PVC	130	WW 1984	402	1.54	0.16	0.040
	P-542	Cowesett Rd.	8	Asbestos Cement	115	WW 1940	323	-2.11	0.01	0.000
	P-543	Ashton St.	6	PVC	130	WW 1984	456	1.54	0.02	0.000
	P-544	Winthrop Ave.	2	Galvanized iron	30	WW 1910	772	-1.54	0.16	1.130
	P-545	Winthrop Ave.	4	Cast iron	35	WW 1910	905	0.47	0.01	0.000
	P-546	Standard Ave.	2	Galvanized iron	30	WW 1910	448	-1.54	0.16	0.050
	P-547	Standard Ave.	6	Cast iron	35	WW 1910	907	- 0.63	0.08	0.070
	P-548	Brewster Ave.	6	Cast iron	35	WW 1910	259	3.00	0.04	0.010
	P-549	Carton PI.	6	Asbestos Cement	120	VVVV 1904	203	66.75	0.02	0.650
	P-550	West Warwick Ave.	6	Cast Iron		1000 VVVV	503	38.70	0 44	0.130
	P-551	Harbour Ave.	6	Aspestos Cement		WAA/ 1895	324	26.51	0.30	0.120
	P-552	West Warwick Ave.	6	Cast fron		WW 1000	443	7.46	0.05	0.000
	P-553	Matteson Ave.		Cast imp	00 00	WW 1900	315	5.92	0.04	0.000
	P-554	Matteson Ave.		Caetimo	30	WW 1885	305	7.88	0.09	0.040
	P-555	vvest vvarwick Ave.	12	Ductile Iron	140	WW 2003	644	20.83	0.06	0.000
	P-556	Most Monwick Ave	6	Castimo	60	WW 1885	72	27.18	0.31	0.030
	P-55/	Cottage St	- 4	Cast iron	35	WW 1910	727	6.16	0.16	0.360
	D 660	Wast Warwink Ava	6	Cast iron	60	WW 1885	250	19.48	0.22	0.050
	P_660	Wat Warvin Ava	6	Cast Iron	60	WW 1885	296	22.03	0.25	0.080
	D_581	West Warwick Ava	6	Cast iron	60	WW 1885	50	31.94	0.36	0.030
	P_661	Arthur St	6	Asbestos Cement	115	WW 1940	644	-4.08	0.05	0.000
	P-562		6	Ductile Iron	135	WW 1991	652	-11.45	0.13	0.010
	P.564	Harbour Ave	8	Ductile Iron	140	WW 2003	312	99.54	0.64	0.070
	P.565	West Warwick Ave.	6	Cast iron	60	WW 1885	264	23.78	0.27	0.080
	P-566	West Warwick Ave.	6	Cast iron	60	WW 1885	168	22.71	0.26	0.050
	P-567	Kent St.	8	Ductile Iron	140	WW 2001	728	-77.32	0.49	0,100
	P-568	Harbour Ave.	8	Ductile Iron	140	WW 2003	388	85.01	0.54	0.000
	P-569	West Warwick Ave.	6	Cast iron	60	WW 1885	191	98.49	1.12	0.010
	P-570	Leeder St.	2	Galvanized iron	30	WW 1928	298	1.54	0.10	0.000
	P-571	Arthur St.	6	Asbestos Cement	115	VVV 1940	374	1 1.54	0.02	0.000

• [Label	Description	Diameter (in)	Material	Hazen- Williams C	Notes	Length (ft)	Discharge (gpm)	Velocity (ft/s)	Calculated Friction Headloss (ft)
	P-572	Laramee Ave.	6	PVC	130	WW 1988	628	1.54	0.02	0.000
	P-573	Kent St.	8	Ductile Iron	140	WW 2001	631	1,54	0.01	0.000
~	P-574	Harbour Ave.	8	Ductile Iron	140	WW 2003	316	4.62	0.03	0.000
Ľ	P-575	Bell St.	6	Asbestos Cement	130	WW 1975	638	1.54	0.02	0.000
	P-576	Harbour Ave.	8	Ductile Iron	140	WW 2003	179	1.54	0.01	0.000
	P-577	Pawtuxet Ter.	12	Ductsie Iron	140	VVVV 2003	197	3.08	0.23	0.000
-	P-578	Bleach Ave.	6	Calculation	40	WAA/ 1935	750	1.54	0.05	1 110
·	P-579	Armur SL Praducet Ter	12	Ductile too	140	WW 2003	802	-85.60	0.24	0.020
	P-581	Jefferson St	6	Asbestos Cement	115	WW 1949	225	1.54	0.02	0.000
	P-582	Pawtuxet Ter.	12	Ductile Iron	140	WW 2003	368	-88.68	0.25	0.010
	P-583	Morris St.	6	Asbestos Cement	115	WW 1948	823	1,54	0.02	0.000
	P-584	Orrin St.	6	Aspestos Cement	115	WW 1949	359	-3.08	0.03	0.000
	P-585	Pawtuxet Ter.	12	Ductile Iron	140	WW 2003	361	-91.76	0.26	0.010
	P-586	Moretti Dr.	8	Ductile Iron	140	WW 2003	300	-/0.5/	0.49	0.040
_	P-587	Robinson Way	8	Ductile Iron	140	VVVV 2003	317	7 70	0.14	0.000
	P-588	Robinson Way	8	Ducule Iron	120	WW 2003	581	154	0.02	0.000
	P-589	Podgurski St.	0	Ductile Imn	140	WW 2003	299	4.62	0.03	0.000
	P-090	Robinson way	12	Ductile Iron	140	WW 2003	712	-469.43	1.33	0.390
	P-597	Pawtuxet Ter	12	Ductile Iron	140	WW 2003	1114	-16.73	0.05	0.000
-	P-593	Pulaski St.	12	Ductile Iron	140	WW 2003	165	-312.59	0.89	0.040
	P-594	Pulaski St.	12	Ductile Iron	140	WW 2003	315	-294.27	0.83	0.070
	P-595	Robinson Way	8	Ductile Iron	140	WW 2003	959	56.61	0.36	0.070
	P-596	Pulaski St.	12	Ductile Iron	140	WW 2003	305	-352.41	1.00	0.100
Ľ	P-597	Colonial Way	6	Asbestos Cement	115	WW 1947	705	1.64	0.30	0.170
	P-598	Barnold St.	6	Asbestos Cement	120	VAVA 1903	302	-386.22	1 10	0.000
- -	P-599	Pulaski St.	12	Achertos Comert	140	WW 1963	1199	1.54	0.02	0.000
-	P-600	Aldrich SL	12	Ductile Imn	140	WW 2003	323	-389.30	1.10	0.120
ļ	P-601	Pulaski St	12	Ductile Iron	140	WW 2003	245	-392.38	1.11	0.100
	P-603	Windsor Park Dr.	6	Ductile Iron	135	WW 1990	220	3.08	0.03	0.000
	P-604	Sophia's Way	6	Ductile Iron	135	WW 1990	312	1.54	0.02	0.000
F	P-605	Pulaski St.	12	Ductile fron	140	WW 2003	780	-396.99	1.13	0.310
	P-606	Eileen Dr.	6	Asbestos Cement	120	WW 1959	308	69.35	0.79	0.190
	P-607	Elleen Dr.	6	Asbestos Cement	120	WW 1959	298	1.54	0.75	0.000
	P-608	Harvest Dr.	6	Aspestos Cement	140	WW 1907	343	-467.89	1.33	0.190
 -	P-609	Pulaski St.	12	Ducale from	140	WW/ 1953	167	-1.54	0.02	0.000
-	P-610	Roundway Dr.	6	Asbestos Cement	120	WW 1953	414	-22.97	0.26	0.030
-	P-611	Roundway Dr.	6	Asbestos Cement	120	WW 1953	128	-55.26	0.63	0.050
ŀ	P-613	Sherwood Dr	6	Asbestos Cement	120	WW 1954	951	19.89	0.23	0.060
F	P-614	Sheffield Ave.	6	Asbestos Cement	120	WW 1954	170	27.60	0.31	0.020
••••••	P-615	Sheffield Ave.	6	Asbestos Cement	120	WW 1954	310	-9.24	0.10	0.000
	P-616	Fenland Dr.	6	Asbestos Cement	120	WW 1955	366	16.89	0.19	0.020
	P-617	Wilshire Way	6	Asbestos Cement	120	WW 1955	329	15.35	0.17	0.010
	P-618	Sheffield Ave.	6	Asbestos Cement	120	WW 1954	416	-27.6/	0.31	0.000
	P-619	Creighton Pl.	6	Asbestos Cement	120	WW 1955	302	1.04	0.02	0.000
	P-620	Sheffield Ave.	6	Asbestos Cement	120	WWW 1954	290	-19.86	0.13	0.010
1	P-621	Harley St.	8	Aspestos Cement	120	WW 1954	257	-5.83	0.07	0.000
- I	P-622	Coaches Ct.		Asbestos Cement	120	WW 1955	877	-7.37	0.08	0.010
	P-623	Barnold St	6	Asbestos Cement	120	WW 1955	205	1.54	0.02	0.000
ł	P-625	Sidney St.	6	Asbestos Cement	120	WW 1955	297	-12.26	0.14	0.010
ŀ	P-626	Sidney St.	6	Asbestos Cement	120	WW 1955	275	-17.83	0.20	0.010
ľ	P-627	Sidney St.	6	Asbestos Cement	120	WW 1955	297	-1.97	0.02	0.000
	P-628	Wilshire Way	6	Asbestos Cement	120	WW 1955	608	10.30	0.12	0.010
	P-629	Harley St.	8	Asbestos Cement	120	WW 1954	376	8.66	0.00	0.010
	P-630	Sheffield Ave.	6	Asbestos Coment	120	WW 1954	414	15.88	0.10	0.000
	P-631	Harley St.	8	Asbestos Cement	120	WW 1954	745	-4.03	0.05	0.000
1	P-632	Kowalik Dr.	0	Asbestos Cement	120	WW 1954	315	18.37	0.12	0.000
	P-633	Haney St.	6	Ashestos Cament	120	WW 1955	231	5.25	0.06	0.000
	P-034	Laua Di.	6	Asbestos Cement	120	WW 1955	342	-1.81	0.02	0.000
	P-636	Harley St.	8	Asbestos Cement	120	WW 1954	788	11.58	0.07	0.000
	P-637	Bryant Pl.	6	Asbestos Cement	120	WW 1955	553	5.53	0.06	0.000
	P 638	Harley St.	8	Asbestos Cement	120	WW 1954	704	15.57	0.10	0.010
	P-639	West Warwick Ave.	6	Cast iron	60	WW 1885	1107	95,41	1.08	2 640
	P-640	West Warwick Ave.	6	Cast iron	60	WW 1885	- 110	241.02	1 03	1 980
	P-641	Main St.	8	Cast iron	125	WW 1955	160	305.04	3.46	1.230
	P-642	Legris Ave.		Ducale iron	135	WW 1922	1327	99.14	1.12	12.080
	P-643	Bridal Ave.	- 0	Cast Iron	40	WW 1922	173	92.98	1.06	1.400
1	P-645	Bridal Ave.	A R	Cast iron	60	WW 1885	1092	-62.00	0.70	1.970
	P-646	Main St.	6	Cast iron	30	WW 1885	268	-9.24	0.10	0.050
i	P-04/	Epworth Ave.	6	Cast iron	30	WW 1885	761	-10.78	0.12	0.190
	P-649	Epworth Ave.	4	Cast iron	30	WW 1885	347	<u> </u>	0.31	0.820

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	Label	Description	Ulameter (in)	Material	Williams C	Notes	Length (ft)	(gpm)	(ft/s)	Headloss (ft)
-	P-650	Main St.	6	Cast iron	60	WW 1885	753	54.30	0.62	1.060
[_	P-651	Main St.	6	Cast iron	60	WW 1885	223	-68.16	0.77	0.480
- L	P-652	Crossen St.	6	Cast iron	30	WW 1885	359	-78.93	0.90	3.650
	P-653	Brookside Ave.	8	Cast iron	60	WW 1885	962	150.83	0.96	2.210
- I-	P-654	To Mill (Private)	10	Cast iron	<u> </u>	C881 VVVV	300	1.04	0.01	2 300
	P-655	Brookside Ave.	8	Cast Iron	30	C001 VVVV	520	2.00	0.54	0.050
 	P-656	Urossen St.		Cast iron		WW 1885	167	0.55	0.05	0.030
	P-659	Riverdale Ave	A	Castimo		WW 1885	796	-0.92	0.02	0.020
┣	P-659	Eddy St	6	Cast iron	- 30	WW 1885	546	1.54	0.02	0.000
	P-660	Eddy St.	6	Cast iron	30	WW 1885	640	-4.00	0.05	0.030
⊢	P-661	Main St.	6	Cast iron	30	WW 1885	288	-5.54	0.06	0.020
F	P-662	Hare St.	1	Galvanized iron	30	WW 1885	574	0.06	0.03	0.060
ľ	P-663	Main St.	6	Cast iron	30	WW 1885	180	-7.14	0.08	0.020
· [P-664	Brookside Ave.	10	Cast iron	60	WW 1885	646	-231.30	0.94	1.110
Ĺ	P-665	Robert St.	4	Cast iron	40	VVVV 1929	370	-17.41	0.44	0.970
	P-666	Robert St.	4	Cast Iron	- 40	WAN 1929	334 870		0.10	0.150
~ -	P-667	Main St.		Castimo	75	WW 1931	135	10.08	0.06	0.000
F	0-660	Washington St.	<u>0</u> 8	Cast imn	75	WW 1931	250	68.45	0.44	0.090
-	P-670	St. John St	6	Cast iron	30	WW 1890	783	11.74	0.13	0.230
ŀ	P-671	Washington St.	8	Cast Iron	75	WW 1931	344	55.17	0.35	0.080
F	P-672	Brookside Ave.	8	Cast iron	70	WW 1922	281	-53.63	0.34	0.070
i h	P-673	Robert St.	6	Cast iron	40	WW 1929	591	-47.49	0.54	1,380
	P-674	Roosevelt St.	1	PVC	140	WW 2000	350	1.54	0.63	0.860
	P-675	Ottawa St.	4	Cast iron		WW 1885	314	-0.36	0.16	0.220
Ľ	P-676	Mill St.	4	Cast iron	30	000 1005	290	-7.90	0.20	0.560
- L	P-677	Mill St.	4	Cast Iron	30	WW 1000	658	44 21	0.50	1.340
ļ-	P-678	KODERT St.	8	Castimo	60	WW 1885	71	-145.76	0.93	0.150
ŀ	P-680	Washington St	12	Cast iron	60	WW 1885	109	-66.87	0.19	0.010
-	P-681	Baker St.	2	Galvanized iron	30	WW 1900	20	4.62	0.47	0.220
F	P-682	Washington St.	12	Cast iron	60	WW 1886	418	-73.02	0.21	0.030
- F	P-683	Walnut St.	6	Asbestos Cement	130	WW 1972	582	1.54	0.02	0.000
t	P-684	Washington St.	12	Cast iron	60	WW 1886	265	-8.46	0.02	0.000
E	P-685	Nolan St.	2	PVC	125	WW 1978	1076	1.54	0.10	0.000
ļ	P-686	Washington St.	12	Cast inco	00	WW 1885	490	16.20	0.05	0.000
	P-687	wasnington St.	1 <u>2</u>	Castimo	30	WW 1890	184	71.37	0.81	1.550
ŀ	P-000	Weekington St	12	Cast iron	60	WW 1885	379	-56.71	0.16	0.020
ŀ	P-690	West Warwick Ave	6	Cast iron	60	WW 1890	275	69.83	0.79	0.620
ŀ	P-691	Andrew Ave.	6	Cast Iron	30	WW 1886	405	-16.50	0.19	0.230
F	P-692	Rathburn St.	6	Asbestos Cement	120	WW 1956	346	16.82	0.19	0.020
	P-693	Andrew Ave.	2	Galvanized iron	30	WW 1910	1734	-1.21	0.12	1.620
	P-694	Willow St.	6	Cast iron		WW 1890	305	-2.78	0.03	1 240
	P-695	Willow St.	6	Cast iron	30	WW 1890	529 82	31.00	0.41	0.120
	P-696	West St.	6	Cast kon	30	WW 1888	1121	14 32	0.16	0.490
— I	P-697	West St.	<u> </u>	cast Iron	30	WW 1888	316	16.06	0.18	0.170
	P-698	Beauchene St.	4	Ductile Imn	135	WW 1990	679	67.64	0.77	0.320
-	P-099	E89(St	6	Ductile Iron	135	WW 1990	843	-53.11	0.60	0.250
}	P.701	Brookside Ave	8	Cast iron	70	WW 1922	497	-167.94	1.07	1.050
	P-702	Brookside Ave.	8	Ductile Iron	140	WW 2000	405	-115.84	0.74	0.120
-	P-703	West St.	4	Cast iron	30	WW 1889	382	2.33	0.06	0.040
ļ	P-704	Lemoine Ct.	2	Galvanized iron	30	WW 1889	339	1.54	0.10	0.000
[P-705	West St.	4	Cast iron	30	WWW 1869	160	0.75	0.02	0.000
	P 706	West St.	6	Asheetos Camaart	120	WW 1950	352	1.54	0.02	0.000
_ !	P-707	Wood St.	2	Galvanized imn	30	WW 1940	1216	-2.37	0.24	3.950
	P-706	Shinnen Ave	8	Cast iron	60	WW 1889	268	63.72	0.41	0.130
	P-709	Agnes St	6	Cast iron	35	WW 1910	433	1.54	0.02	0.000
1	P-711	Shippee Ave.	8	Cast iron	60	WW 1889	255	60.64	0.39	0.110
	P-712	Shippes Ave.	8	Cast iron	60	WW 1889	314	18.74	0.12	0.020
	P-713	Shippee Ave.	8	Cast iron	60	WW 1889	296	57.56	0.37	0.110
	P-714	Plante St.	2	PVC	130	WW 1981	472	1.54	0.10	2 320
i	P-715	Andrew Ave.	6	Cast iron	45	WWW 1930	2050	1.54	0 16	1,160
	P 716	Hebert St.	2	Gaivanized iron		WW 1920	395	592.60	1.68	1.050
	P-717	Shippee Ave.	12	Cast imp	75	'WW 1930	707	515.05	1.46	1.450
	P-718	Mond St.	- 1 <u>2</u>	Cast imn	45	WW 1938	315	3.00	0.03	0.000
	P-/19	Lauriande St.	12	Cast iron	75	WW 1930	356	444.70	1.26	0.560
	P.721	Pond St.	12	Cast iron	60	WW 1885	381	385.51	1.09	0.690
	P-722	Pond St.	12	Cast iron	60	WW 1885	493	358.14	1.02	0.780
	P-723	Pond St.	12	Cast Iron	60	WW 1885	261	80.43	0.23	0.030
	P-724	Washington St.	8	Cast iron	60	WW 1885	279	-20 R0	0.34	0.540
	P-725	Ottawa St.	6	Cast iron	30	VVVV 1860 VAA/ 1041	536	-276.17	0.78	0.160
	P-726	Archambault Ave.	12	ASDESIOS CEMENT						

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- [Lak-1	Presiden	Diameter	Matarial	Hazen-	Notae	Length (ff)	Discharge (com)	Valocity (ft/s)	Calculated Friction Headloss (ff)
—	D_727	Ottawa St		Castimo	30	WW 1885	350	-35.06	0.40	0.790
-	P-/2/	Ottawa St.	6	Castimn	- 30	WW 1886	114	-25.83	0.29	0.150
	P.720	Washington St	8	Cast iron	60	WW 1885	697	118.92	0.76	1.030
	P-730	Crawford St	6	Cast iron	45	WW 1936	187	1.54	0.02	0.000
	P-731	Granite St	4	Cast iron	30	WW 1886	737	-10.77	0.27	1.350
-	P-732	Barnes St.	8	Cast iron	75	WW 1936	127	-68.81	0.44	0.050
	P-733	Home St.	6	Cast iron	50	WW 1940	775	-62.03	0.70	1.960
· _ ·	P-734	Barnes St.	8	Cast iron	75	WW 1936	191	-106.93	0.68	0.150
	P-735	Barnes St.	8	Cast iron	75	WW 1936	121	-56.51	0.36	0.030
-	P-736	Shippee Ave.	6	Cast iron	45	WW 1939	101	76.01	0.86	0.450
	P-737	Shippee Ave.	6	Cast iron	45	WW 1939	249	72.93	0.83	1.030
-	P-738	Rita St.	8	Ductile Iron	140	WW 2001	649	51.97	0.33	0.040
_	P-739	Shippee Ave.	6	Cast iron	45	WW 1939	234	19.42	0.22	0.080
	P-740	McGlynn St.	2	Copper	70	WW 1941	624	0.55	0.10	0.110
-	P-741	Shippee Ave.	6	Cast iron	45	WW 1939	368	17.34	0.20	0.110
1-	P-742	McNiff St.	4	Cast iron	50	WW 1940	110	31.89	0.81	0.580
	P-743	McNiff St.	6	. Cast iron	50	WW 1940	450	-40.83	0.46	0.520
[P-744	Barnes St.	8	Cast iron	75	WW 1936	344	-43.91	0.28	0.050
F	P-745	McNiff St.	6	Cast iron	50	WW 1940	697	1.54	0.02	0.000
L L	P-746	Archambault Ave.	12	Asbestos Cement	115	WW 1941	1433	341.83	0.97	0.620
	P-747	Gareau St.	6	Cast iron	50	WW 1940	349	59.91	0.68	0.830
F	P-748	Gareau St.	6	Cast iron	50	WW 1940	615	-71.18	0.81	2.010
F	P-749	McNiff St.	6	Cast iron	50	WW 1940	163	-16.09	0.18	0.030
⊢	P-750	Jodoin St.	6	Cast iron	50	WW 1945	429	1.54	0.02	0.000
, F	P-751	McNiff St.	6	Cast iron	50	WW 1940	193	-19.17	0.22	0.060
` -	P-752	Middle St.	2	Galvanized iron	30	WW 1933	353	1.54	0.16	0.520
ŀ	P-753	Curson St.	4	Cast iron	45	WW 1935	253	-49.69	1.27	3.710
F	P-754	Hilicrest Dr.	6	Cast iron	50	WW 1949	341	4.62	0.05	0.010
-	P-755	Valley View Dr.	1	Copper	70	WW 1950	273	1.54	0.63	2.430
	P-756	Hillcrest Dr.	6	Cast iron	50	WW 1949	280	1.54	0.02	0.000
- F	P-757	Curson St.	8	Ductile Iron	140	WW 2002	260	-57.38	0.37	0.020
- F	P-758	Curson St.	8	Asbestos Cement	115	WW 1947	712	-51.22	0.33	0.070
	P.759	West St.	12	Cast iron	75	WW 1930	204	-720.68	2.04	0.780
ŀ	P-760	Guertin St.	2	Galvanized iron	30	WW 1950	358	1.54	0.16	0.520
1-	P-761	West St	12	Cast iron	75	WW 1930	510	-723.76	2.05	1.970
-	P-762	Viminia Ave.	6	Asbestos Cement	125	WW 1967	301	4.62	0.05	0,000
-	P-763	Bouchard St.	6	Asbestos Cement	125	WW 1967	247	3.08	0.03	0.000
	P.764	Bouchard St.	6	Asbestos Cement	125	WW 1967	307	1.54	0.02	0.000
~ F	P-765	West St	12	Cast iron	75	WW 1930	267	-729.92	2.07	1.050
	P-767	West St Tapk	12	Ductile from	140	WW 2002	194	0.00	0.00	0.000
ł	P.768	West St. Tank	12	Cast iron	75	WW 1930	130	0.71	0.00	0.000
-	P-769	West St	16	Asbestos Cement	130	WW 1944	446	-731.46	1,17	0.160
ŀ	P-770	Goudh Ave.	16	Asbestos Cement	130	WW 1944	160	-733.00	1.17	0.060
F	P-771	Gough Ave	16	Asbestos Cement	130	WW 1944	712	-850.05	1.36	0.330
ŀ	P.772	Gough Ave.	16	Asbestos Cement	130	WW 1944	114	-853.13	1.36	0.050
ŀ	P.773	Hebert St	2	Copper	110	WW 1966	216	1.54	0.28	0.120
ł	P.774	Goudh Áve	6	Asbestos Cement	115	WW 1944	112	115.52	1.31	0.190
ŀ	D.775	Gough Ave	6	Cast iron	75	WW 1937	132	24.75	0.28	0.030
	- P 776	Regnaiere Ct	6	PVC	130	WW 1982	592	1.54	0.02	0.000
ł	D.777	Gouch Ave	6	Cast iron	75	WW 1937	294	21.67	0.25	0.050
ŀ	P.779	Kinna St	4	Cast iron	80	WW 1949	700	20.13	0.51	0.660
ŀ	P.770	Kinne St	6	Asbestos Cement	115	WW 1949	234	18.60	0.21	0.010
ŀ	D.790	Youngs Ave	6	Asbestos Cement	120	WW 1956	350	-186.81	2.12	1.350
-	P.781	Kinne St.	6	Asbestos Cement	115	WW 1949	570	1.54	0.02	0.000
ŀ	P.782	Youngs Ave	8	Ductile Iron	140	WW 2001	800	202.33	1.29	0.660
ł	P_793	Greene St		Asbestos Cement	110	WW 1933	691	71.09	0.45	0.130
ł	P_794	Gouch Ave	6	Cast iron	75	WW 1937	661	-89.23	1.01	1.550
	P.795	Younds Ave	6	Cast iron	30	WW 1885	458	58.58	0.66	2.680
-	P.786	Tohin St	6	Cast iron	50	WW 1945	329	1.54	0.02	0.000
	P_797	Younge Ave	6	Cast iron	30	WW 1885	2079	55.50	0.63	11.010
	P.799	Main St	- 6	Cast iron	60	WW 1936	212	168.06	1.91	2.420
	P_790	Kenvon St	1	Galvanized iron		WW 1938	688	1.54	0.40	9,920
	P.700	Main St	6	Cast iron	60	WW 1936	335	164.98	1.87	3,700
_	P.702	Harris Ave	6	Cast iron	30	WW 1885	1423	-70.71	0.80	11.800
	P.703	South St.	6	Asbestos Cement	120	WW 1954	393	1.54	0.02	0.000
	P.704	Harris Ave.	6	Cast iron	30	WW 1885	965	-73.79	0.84	8,660
	P_705	Greene St.	4	Cast iron	45	WW 1933	527	14.41	0.37	0.780
	P.704	Greene St	8	Asbestos Cement	110	WW 1933	475	91.28	0.58	0.140
	P.707	Greene St.	4	Cast iron	30	WW 1887	311	-20.15	0.51	1.820
	D.708	Harris Ave	8	Asbestos Cement	120	WW 1950		29.39	0.19	0.010
	P_700	Harris Ave	8	Asbestos Cement	115	WW 1946	1141	26.31	0.17	0.030
	P.900	Greene St	4	Cast iron	45	WW 1933	399	3.08	0.08	0.030
	D_901	Peters I n	8	Asbestos Cement	125	WW 1960	1067	1.54	0.01	0.000
	D_002	Greene St		Copper	70	WW 1950	253	1.54	0.63	2.250
	D.002	Woodside Ave	6	Cast iron	45	WW 1938	454		0.49	0.720
	P 904	Downing Dr	6	Asbestos Cement	130	WW 1978	481	1.54	0.02	0.000
	P_805	Woodcide Ave	6	Cast iron	45	WW 1938	224	-46.54	0.53	0.400

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i			Diameter		Hazen-			Discharge	Velocity	Friction
	Label	Description	(in)	Material	Williams C	Notes	Length (ft)	(gpm)	(ft/s)	Headloss (ft)
_	P-806	Patrick Rd.	6	Asbestos Cement	130	WW 1978	394	-118.90	1.35	0.570
	P-807	Quinn Dr.	6	Asbestos Cement	130	WW 1978	250	1.54	0.02	3 250
-	P-808	Woodside Ave.	6	Cast iron	45	WW 1930	213	-85.05	0.00	0.190
	P-809	Betrick Rd	6	Asbestos Cement	130	WW 1978	315	-121.97	1.38	0.470
F	P-811	Spencer St	6	Asbestos Cement	120	WW 1950	309	-125.05	1.42	0.570
F	P-812	Spencer St.	6	Asbestos Cement	120	WW 1950	633	1.54	0.02	0.000
- 1	P-813	Sunrise Ave.	6	Asbestos Cement	130	WW 1965	877	95.63	1.09	0.340
	P-814	Woodside Ave.	6	Cast iron	45	WW 1885	1372	167.20	1.90	26.440
	P-815	Woodside Ave.	6	Cast iron	45	WW 1885	240	3.09	1.51	0.020
	P-816	Fiynn Ter.	4	Achertos Cemert	120	WW 1005	472	1.54	0.02	0.000
ŀ	P-817	Hynn Fer.	6	Cast imn	45	WW 1885	691	128.19	1.45	8.140
	P-010	Fruit St	4	Cast iron	30	WW 1885	296	32.86	0.84	4.280
ŀ	P-820	Sunset Ave.	6	Cast iron	30	WW 1885	548	-14.96	0.17	0.260
	P-821	Sunset Ave.	6	Cast iron	30	WW 1885	715	46.28	0.53	2.710
	P-822	Maple Ave.	6	Cast iron	40	WW 1885	344	133.53	1.52	5.440
- [P-823	Maple Ave.	6	Cast iron	40	WW 1885	818	10.57	0.50	3.420
	P-824	Sunrise Ave.	4	Cast ron	30	WW 2005	399	18.04	0.20	0.020
ļ	P-825	Pine St.	10	Ductile imn	135	WW 1999	64	410.58	1.68	0.070
ł	P-620	Main St.	10	Cast iron	60	WW 1885	607	425.93	1.74	3.220
	P-828	Main St	10	Cast iron	60	WW 1885	238	-28.44	0.12	0.010
~	P-829	Clyde St.	6	Cast iron	30	WW 1886	498	26.34	0.30	0.660
t	P-830	Industrial Ln.	8	Cast iron	60	WW 1885	1837	16.26	0.10	0.070
	P-831	Ciyde St.	12	PVC	130	WW 1980	1244	-402.83	0.06	0.000
	P-832	Industrial Ln.	10	Cast Iron	130	1000 WWW 1000	626	334.26	0.95	0.210
~	P-835	Wightman St.	12	Ductile Imn	140	WW 2001	569	332.72	0.94	0.160
	P-630	Alexander Dr.	12	Ductile Iron	140	WW 2001	579	445.59	1.26	0.290
	P-838	Medinah Dr.	8	Ductile Iron	140	WW 2001	581	-114.41	0.73	0.170
	P-839	Saddlebrook Dr.	8	PVC	130	WW 1989	233	-39.87	0.25	0.010
	P-840	Saddlebrook Dr.	8	PVC	130	WW 1988	610	-41.41	0.26	0.030
	P-841	Crestwood Dr.	8	PVC	130	WW 1988	609	45.25	0.29	0.040
	P-842	Saddlebrook Dr.	8	PVC	130	WAV 1900	332	-122.87	0.78	0.120
	P-843	Crestwood Dr.		PVC PVC	130	WW 1988	459	2.30	0.01	0.000
	D_845	Crestwood Dr	8	PVC	130	WW 1988	447	1.54	0.01	0.000
	P 846	Crestwood Dr.	8	PVC	130	WW 1988	316	-0.78	0.00	0.000
	P-847	Louise Dr.	6	Asbestos Cement	120	WW 1955	705	3.08	0.03	0.000
	P-848	Brookfield Dr.	6	Asbestos Cement	130	WW 1972	282	1.54	0.02	0.000
	P-849	Crestwood Dr.	6	Asbestos Cement	120	WW 1957	29/	548.65	1.55	0.390
	P-850	Wakefield St.	12	Ductile Iron	135	WW 1997	215	529.25	1.50	0,160
	P-851	Wakefield St.	12	Ductile Imn	135	WW 1997	464	523.09	1.48	0.330
	P-652	Cyr Ct	12	Ductile from	140	WW 2001	384	-442.52	1.26	0.190
	P-854	Wakefield St.	12	Ductile Iron	135	WW 1997	175	964.07	2.73	0.390
	P-855	Wakefield St.	12	Asbestos Cement	130	WW 1980	2914	1034.44	2.93	7.860
	P-856	Carrie Ann Dr.	12	Ductile Iron	135	WW 1990	338	873.42	2.48	0.820
	P-857	Derrick Ct.	12	Ductile Iron	135	VVV 1990	167	20.01	0.06	0.000
	P-858	Carrie Ann Dr.	12	Ductile Iron	130	WW 1990	265	10.75	0.07	0.000
	P-859	Shannon Ln.		Ductile ima	135	WW 1993	228	1.54	0.01	0.000
	P-860	Shancon Lo	8	Ductile Iron	135	WW 1993	269	7.67	0.05	0.000
	P-862	Kathleen Ct.	8	Ductile Iron	135	WW 1993	422	1.54	0.01	0.000
	P-863	Kathleen Ct.	8	Ductile Iron	135	WW 1993	576	-4.64	0.03	0.000
	P-864	Carrie Ann Dr.	8	Ductile Iron	135	VVVV 1993	200 630	- 1.34	0.01	0.000
	P-865	Carrie Ann Dr.		Ductile Iron	130	WW 1993	565	9.24	0.06	0.000
	P-866	Shannon Ln.	<u> </u>	Ductile Iron	140	WW 2001	465	3.69	0.02	0.000
	P-867	Gilcrest Cir.	8	Ductile Iron	140	WW 2001	311	2.15	0.01	0.000
	P-900	Gilcrest Cir.	8	Ductile iron	140	WW 2001	485	4.01	0.03	0.000
	P-870	Gilcrest Cir.	8	Ductile Iron	140	WW 2001	331	-0.61	0.00	0.000
	P-871	Gilcrest Cir.	8	Ductile Iron		WW 2001	196	1.54	0.01	0.000
	P-874	Wakefield St.	12	PVC	130	WW 1989	814	62.44	0.18	0.010
	P-875	Lombardi Ln.	- 12	PVC	135	WW 1990	267	1.54	0.01	0.000
	P-877	River Farms Dr.	12	PVC	130	WW 1989	343	109.65	0.31	0.010
	P-870	Oueen Ann Ct.	8	Ductile Iron	140	WW 2002	335	1.71	0.01	0.000
	P-881	River Farms Dr.	12	PVC	130	WW 1989	1245	131.78	0.37	0.070
•	P-882	River Farms Dr.	8	PVC	135	WW 1990	250	19.09	0.13	0.000
	P-883	River Farms Dr.	8	PVC	135	WW 1990	- 245	16.61	0.11	0.000
	P-884	River Farms Dr.	8	PVC DVC	130	WW 1989	118	110.56	0.31	0.010
	P-885	River Fams Dr.	- 12	PVC	130	WW 1989	320	125.63	0.36	0.020
	P-686	Wakefield St	12	Ductile Iron	135	WW 1997	115	527.71	1.50	0.080
	P-888	Burlingame Rd.	8	PVC	130	WW 1981	2177		0.47	0.320

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	Label	Description	Diameter (in)	Material	Hazen- Williams C	Notes	Length (ft)	Discharge (gpm)	Velocity (ft/s)	Friction Headloss (ft)
ŀ	P-889	Vincenzo Dr.	6	PVC	130	WW 1981	408	-74,99	0.85	0.250
	P-890	Vincenzo Dr.	6	Asbestos Cement	125	WW 1964	588	-45.69	0.52	0.150
~	P-891	Harding St.	6	Asbestos Cement	115	WW 1947	252	33.92	0.38	0.040
	P-892	Horta Dr.	6	Aspestos Cement	125	WW 1964	579	32.38	0.37	0.080
i-	P-893	Horta Dr.	6	Asbestos Cement	125	WW 1964	233	30.84	0.03	0.030
	P-894	Hoover St.	6	Acherton Comont	130	WWW 1900	170		0.03	0.000
-	P-090	Harding St.	6	Ashestos Cement	115	WW 1947	1974	15.86	0.18	0.090
	P-897	Buebler Dr	5	Asbestos Cement	120	WW 1953	386	-66.83	0.76	0.220
-	P-898	Buehler Dr.	6	Asbestos Cement	120	WW 1953	342	-47.99	0.54	0.110
	P-899	Cleveland St.	6	Asbestos Cement	115	WW 1948	948	-20.38	0.23	0.070
	P-900	Grace Ct.	6	Asbestos Cement	125	WW 1968	168	1.54	0.02	0.000
~ 1	P-901	Cleveland St.	6	Asbestos Cement	115		450	-23.45	0.27	0.040
-	P-902	Garfield Ter.	6	Ductile Iron	135	WW 1992	290	1.54	0.02	0.000
	P-903	Cleveland St.	6	Aspestos Cement	115	WW 1940	314	-20.00	0.30	0.020
-	P-904 D-005	Ledas Dr	8	Asbestos Cament	120		437	1.54	0.02	0.000
ł	P-906	Cleveland St.	6	Asbestos Cement	115	WW 1948	275	-40.38	0.46	0.070
~ .	P-907	Wakefield St.	12	Ductile Iron	135	WW 1997	428	-593.96	1.68	0.390
	P-908	Wakefield St.	12	Ductile Iron	135	WW 1997	974	-562.93	1.60	0.790
	P-909	Wakefield St.	12	Ductile Iron	135	WW 1997	737	-564.47	1.60	0.600
	P-910	Ciyde St.	6	Cast iron	30	WW 1885	1094	24.38	0.28	1.260
_	P-911	Grandview Dr.	6	Asbestos Cement	120	WW 1958	890	32.57	0.37	0.130
	P-912	Clyde St.	6	Cast iron	30	VVVV 1686	242	-9.73	0.03	0.150
	P-914	Oak St.	<u></u>	Cast intro	30	WW 1885	147	2.05	0.03	0.000
-	P-915	Uak SL	0	Cast imp	30	WW 1885	692	1.43	0.02	0.000
ŀ	P_017	Harmony St	4	Cast iron	30	WW 1890	676	0.18	0.00	0.000
	P-918	Harmony St.	6	Cast iron	30	WW 1890	523	-1.35	0.02	0.000
h	P-919	Smith St.	6	Cast iron	30	WW 1885	188	-0.29	0.00	0.000
1	P-920	Wakefield St.	12	Ductile Iron	135	WW 1997	154	590.39	1.67	0.140
	P-921	Clyde St.	6	Cast iron	30	WW 1886	1012	-11.27	0.13	0.280
	P-922	Westly St.	6	Cast iron	30	WW 1885	230	-7.40	0.08	0.030
	P-923	Westly St.	6	Cast iron	30	1000 1404/1886	232	-10.40	0.12	0.000
-	P-924	Westly St.	<u> </u>	Cast iron		WW 1885	717	56.32	0.36	0.270
	P-925	Main SL	6	Cast imn	30	WW 1885	537	-11.42	0.13	0.150
	P-920	Knight St	6	Cast iron	30	WW 1885	318	-5.61	0.06	0.020
	P-928	Knight St.	6	Cast iron	30	WW 1885	305	6.60	0.07	0.030
	P-929	Wakefield St.	12	Ductile Iron	135	WW 1997	323	595.30	1.69	0.290
	P-930	Main St.	8	Cast iron	60	WW 1885	505	-58.45	0.37	0.200
	P-931	Main St.	8	Cast iron	60	WW 1885	318	-67.34	0.43	0.160
_	P-932	Main St.	8	Cast iron	60	WW 1885	321	-82.63	0.53	0.240
	P-933	Packard St.	6	Cast fron	30	WW 1885	390	12.75	0.08	0.050
	P-934	Ventura St.	6	Cast iron	30	WW 1007	4/3 540	573.11	1.63	0.150
	P-935	Wakefield St.	12	Ductile Iron	130	WW 1977	632	3.08	0.03	0.000
	P-936	Angell St.	2	Cabraoized imp	30	WW 1928	418	1.54	0.16	0.610
	P-937	Battaz St	<u> </u>	Cast imn	30	WW 1885	1059	-17.14	0.44	4.590
	P-030	Phenix Ave	6	Cast iron	30	WW 1885	364	-33.33	0.38	0.750
	P-940	Phenix Ave.	6	Cast iron	30	WW 1885	816	10.96	0.12	0.210
	P-941	Main St.	10	Cast iron	60	WW 1885	393	657.27	2.68	4.660
_	P-942	Mello St.	6	Asbestos Cement	120	WW 1951	251	9.23	0.10	0.000
	P-943	Mello St.	6	Asbestos Cement	120	WW 1951	290	4.20	0.05	0.000
_	P-944	Mello St.	6	Asbestos Cement	120	WWW 1951	201	3.49	0.04	0.000
-	P-945	Centracchio St.	6	Distile Imp	130	W/W 1907	267	0.41	0.00	0.000
	P-946	Centracchio St.	4	Ductile imn	135	WW 1992	259	1.54	0.02	0.000
	P-94/	River St	8	Ductile Iron	135	WW 1992	510	-2.67	0.03	0.000
	P.040	Phenix Ave.	6	Cast iron	30	WW 1885	247	14.65	0.17	0.110
	P-950	Phenix Ave.	8	Cast iron	75	WW 1932	203	83.39	0.53	0.100
	P-951	Phenix Ave.	6	Cast iron	30	WW 1885	140	1,54	0.02	0.000
_	P-952	Phenix Ave.	8	Cast iron	75	WW 1932	1017	80.31	0.51	2 610
—	P-955	Phenix Ave.	6	Cast iron	45	WW 1932	/47	51.07	0.75	0.910
	P-956	Phenix Ave.	6	Cast Iron	40	WW 1932	936	1.64	0.02	0.000
-	P-957	Phenix Ave.	6	Cast Iron	40	WW 1938	127	13.85	0.16	0.020
	P-958	Meirose SL		Cast imn	45	WW 1938	833	4.62	0.05	0.020
v	P-959	Wayerty St	<u> </u>	Asbestos Cement	125	WW 1965	402	3.08	0.02	0.000
	P-961	Phenix Ave.	8	Asbestos Cement	125	WW 1965	322	1.54	0.01	0.000
	P-962	Linwood St.	6	Asbestos Cement	115	WW 1942	508	7.70	0.09	0.010
	P-963	Garnet St.	6	Asbestos Cement	125	WW 1961	555	6.16	0.07	0.000
	P-964	Schofield St.	6	Asbestos Cement	125	WW 1961	329	3.08	0.03	0.000
	P-965	Garnet St.	6	Asbestos Cement	125	WW 1961	2/0	1.54	0.02	0.000
	P-966	Lowell St.	<u> </u>	Aspestos Cement	<u> </u>	WW 1932	559	4.62	0.05	0.010
	P-967	Woodbine St.	<u> </u>	Asheetos Comont	120	WW 1955	676	3.08	0.03	0.000
	P-968	Miller Dr.	0	- neurosurs content	120					

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l shel	Description	Diameter	Material	Hazen- Williams C	Notes	Length (ft)	Discharge (gpm)	Velocity (ft/s)	Calculated Friction Headloss (ft)
P-969	Stemhach St	6	Asbestos Cement	125	WW 1965	330	1.54	0.02	0.000
P-970	Aberrieen St	6	Cast iron	40	WW 1922	1119	-1.54	0.02	0.000
P-971	Aberdeen St	6	Cast iron	40	WW 1922	1058	70.27	0.80	5.090
P-072	Atnine St		Cast imn	45	WW 1935	276	-73.35	0.83	1.160
P 072	Abuned St		Achectoc Coment	130	WW 1977	632	1.54	0.02	0.000
P-9/3	Alwood St.		Asbestos Centera	45	1035	300	-76 43	0.87	1 400
P-9/4	Alpine St.	0	Cast inn		1995	1174	49.01	0.55	4 920
P-975	Summit Ave.	6	Cast Iron		000 9999	11/4	40.91	0.55	4.520
P-976	Summit Ave.	6	Cast iron	30		139	47.37	0.54	0.550
P-977	Summit Ave.	6	Cast iron		WW 1885	354	45.83	0.52	1.320
P-978	Alpine St.	6	Cast iron	30	WW 1885	353	-126.88	1.44	8.650
P-979	Parker St.	6	Cast iron	30	WW 1885	186	-93.83	1.06	2.610
P-980	Parker St	6	Cast iron	30	WW 1885	1699	-34.59	0.39	3.750
D 091	Highland St	- Č	Castimn	30	WW 1885	781	120.33	1.37	17,340
F-301	Inginand St.		Cast iron	60	\AAA/ 1885	157	692.87	2.83	2.050
P-962	Main St.		Cast non	00	1404/ 1000	210	32.22	0.37	0.120
P-984	East Main St.	0		00	VVVV 1000	215	1 54	0.07	15 380
P-985	Cross St.	1	Galvanized iron		VYVV 1920	300	1.04	0.03	0.400
P- <u>986</u>	East Main St.	6	Cast iron	60	WW 1886	259	29.14	0.33	0.120
P-987	Elm St.	1	Galvanized iron	30	WW 1928	357	1.54	0.63	15.260
P-988	East Main St.	6	Cast iron	60	WW 1886	405	26.06	0.30	0.150
D-080	lunior St	6	Cast iron	40	WW 1922	646	25.70	0.29	0.480
B.000	lunior St	R	Cast imn	40	WW 1922	512	24.16	0.27	0.340
C-004	duritor ot.		Castimn		WW 1922	387	8.19	0.09	0.030
P-991	JUNIOF St.	0	Dualit IUII	140	14/14/ 2002	357	1 6.4	0.01	0.000
P-992	Hay St.	8		140	VVVY ZUUZ	0000	21404	0.01	0.000
P-994	Providence St.	10	Cast iron	70	VVW 1928	2599	214.94	0.66	2.920
P-995	East Main St.	6	Cast iron	60	WW 1886	64	9.33	0.11	0.000
P-997	Bridge St.	4	Cast iron	45	WW 1935	1240	23.13	0.59	4.420
P-998	Providence St.	6	Cast iron	60	WW 1885	1466	-83.41	0.95	4.570
P 000	Central St	8	Cast imp	75	WW 1937	144	-148.13	0.95	0.210
F-999	Central St.		Cast imp	75	WW 1937	149	-78.30	0.50	0.070
P-1000	Central St.	<u>0</u>	Castiron	75	1007	974	-79.84	0.51	0.460
P-1001	Central St.	8	Cast iron	15	1404/ 1036	671	28.08	0.33	0.500
P-1002	Bridge St.	6	Cast iron	45	AAAA 1922	0/1	20.30	0.00	0.000
P-1003	Bridge St.	6	Cast iron	45	WW 1935	146	24.42	0.20	0.060
P-1004	East Main St.	12	Asbestos Cement	120	WW 1951	917	71.37	0.20	0.020
P-1005	East Main St.	12	Asbestos Cement	120	WW 1951	838	-68.35	0.19	0.020
P-1007	Main St	10	Cast iron	60	WW 1885	292	-278.59	1.14	0.710
0 1009	Main St	10	Castimo	60	WW 1885	165	-332.87	1.36	0.550
P-1006	Main OL	<u>c</u>	Cast imp	60	WW 1885	477	-206.22	2.34	7.960
P-1009	Main SL		Castima	30	M/M/ 1885	560	26.39	0.67	5,480
P-1010	Brayton St.	4	Cast Iron	30	VVVV 1005	260	20.00	0.62	3.040
P-1011	Brayton St.	4	Cast iron	30	C001 WWW	352	24.00	0.00	0.040
P-1012	Providence St.	6	Cast iron	60	2881 WW	1201	-106.06	1,23	0.000
P-1013	Dinsdale Ct.	2	Galvanized iron	30	WW 1930	401	1,54	0.16	0.590
P-1014	Providence St.	6	Cast iron	60	WW 1885	395	-111.16	1.26	2.100
P.1015	Eactory St	6	Cast iron	30	WW 1885	273	-51.67	0.59	1.270
P 1016	Eactory St	6	Cast iron	30	WW 1885	1109	100.23	1.14	17.550
P-1010	Pridee Ot	e	Castimo	45	V/W 1935	261	-110.36	1.25	2.330
P-1017	Bhoge St.	<u> </u>	Castion	60	VAAN 1885	1707	.111.90	1 27	9,660
P-1018	Providence St.	6	Cast iron	00	1404/ 4005	490	224.15	2.66	10 320
P-1019	Main St.	6	Cast iron	60	C001 VVVV	409	-234,13	2.00	0.020
P-1020	Main St.	6	Cast iron	60	WW 1885	397	-69.01	0.78	0.8/0
P-1021	Main St.	6	Cast iron	60	WW 1885	348	-42.32	0.48	0.310
P-1022	Providence St	6	Cast iron	60	WW 1885	328	-172.93	1.96	3.950
D 1022	Druddanos Ci		Castimn	60	WW 1885	278	153.44	1.74	2.680
P-1023			Conner	70	WW 1940	318	-12.59	1.29	4,740
P-1024	Ellison St.			70	VAAN 1040	270	-14 13	1 44	6 830
P-1025	Ellison St.	2	L Copper	//	VVVV 1940	3/0	47.50	0.20	0.110
P-1026	Main St.	6	Cast iron	60	VVW 1885	635	-17.58	0.20	4 000
P-1027	Main St.	8	Cast iron	75	WW 1935	289	-332.09	4.12	1.900
P-1029	Main St.	8	Cast iron	75	WW 1935	150	20.30	0.13	0.010
P-1030	Main St	8	Cast iron	75	WW 1935	470	28.06	0.18	0.030
D 1000	Main St	R	Cast iron	75	WW 1935	412	20.37	0.13	0.020
F-1031	Night St.		Caction	0.0	WW 1885	175	-315.31	3.58	6.410
P-1032	Providence St.		Cactima	75	WW 1935	1605	3.08	0.02	0.000
P-1033	Main St.				1444/ 1900	ATA	1 54	0.02	0.000
P-1034	St. Mary St.	6	Cast iron		1444 4005		6.06	0.00	0.020
P-1035	Main St.	6	Cast fron	60	C881 WW	552	0.50	0.00	0.020
P-1036	Gough Ave.	6	Cast iron	60	WW 1886	340	-02.83	0.71	0.000
P-1037	Main St.	6	Cast iron	60	WW 1885	1038	54.33	0.62	1.460
P-1020	Younge Ave	2	Galvanized iron	30	WW 1885	1120	1.54	0.16	1.640
D 1020	Main Cf	- R	Cast imn	60	WW 1885	696	51.25	0.58	0.880
F-1039	141-11-24		Durtile Imn	140	WW 2001	366	49.71	0.32	0.020
P-1040	walker St.		Oucure IIVII	140	WW 2001	416	48 17	0.31	0.020
P-1041	Walker St.	<u>8</u>	Ducule Iron	140	1004 2001	267	46.63	0.30	0.020
P-1042	Walker St.	8	Ductile Iron	140	VVVV 2001	30/	40.03	0.00	2 690
P-1043	Potter Ave.	6	Cast iron	30	WW 1885	1408	-31.30	0.30	2.000
1 1044	Potter Ave	8	Ductile Iron	140	WW 2001	300	-32.84	0.21	- 0.010
	Gouch Ave	6	Cast iron	30	WW 1886	1545	26.28	0.30	2.050
P-1044	GOUGH AVE.	<u>````</u>	Castimn	30	WW 1887	434	-10.06	0.11	0.100
P-1044		· · ·		1				0.00	1 650
P-1044 P-1045 P-1046	Archambault Ave.	. 6		90	14/14/1997	785	-1160	1 0.30	1.000
P-1044 P-1045 P-1046 P-1047	Archambault Ave. Gardner Ave.	<u> </u>	Cast iron	30	WW 1887	220	-11.60	0.30	0.240
P-1044 P-1045 P-1046 P-1047 P-1048	Archambault Ave. Gardner Ave. Weaver St.	6 4 6	Cast iron Cast iron	<u>30</u> <u>30</u>	WW 1887 WW 1890	<u>785</u> <u>329</u>	-11.60 -19.15	0.30	0.240
P-1044 P-1045 P-1046 P-1047 P-1048 P-1049	Archambault Ave. Gardner Ave. Weaver St. Archambault Ave.	6 4 6 12	Cast iron Cast iron Asbestos Cement	30 30 115	WW 1887 WW 1890 WW 1941	785 329 573	-11.60 -19.15 -350.02	0.30	0.240

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_			Diameter		Hazan-			Discharge	Velocity	Friction
	Labot	Description	(Jan)	Matarial	Williams C	Notes	Leonth (ft)	(apm)	(ft/e)	Handloss (ft)
· ` -		Cumon St	<u>(in)</u>	Costison	A6	VANA/ 1035	272	29.08	0.74	2 010
ŀ	P-1051	Curson St.		Casting	- 40	1900	905	4.62	0.05	0.040
	P-1052	Curson St.	0	Castilina		1090	000	4.02	0.05	0.040
-	P-1053	MCEIroy SL	4	Cast iron	40	VVVV 1920	4/0	1.34	0.04	0.010
- F	P-1054	Bank St.	0	Cast iron		VVVV 1090		3.00	0.03	0.010
1	P-1055	Curson St.	6	Cast iron	50	VVVV 1947	000	0.10	0.07	0.020
-	P-1056	Payan St	6	Cast iron	45	WW 1936	313	4.62	0.05	0.010
-	P-1057	Payan St.	6	Cast iron	45	WW 1936	168	1.54	0.02	0.000
	P-1058	Coutu Ct.	4	Cast iron	45	WW 1936	284	1.54	0.04	0.010
	P-1059	Payan St.	6	Cast iron	45	WW 1936	551	22.83	0.26	0.270
1	P-1060	Weaver St.	6	Cast iron	30	WW 1890	277	12.38	0.14	0.090
	P-1061	Weaver St.	4	Cast iron	30	WW 1890	345	9.30	0.24	0.460
	P-1062	Payan St.	6	Cast iron	45	WW 1936	316	8.91	0.10	0.030
-	P-1063	Payan St.	6	Cast iron	45	WW 1936	283	-4.23	0.05	0.010
	P-1064	John St.	6	Cast iron	50	WW 1945	282	7.70	0.09	0.010
	P-1065	John St.	6	Cast iron	50	WW 1945	217	6.16	0.07	0.010
	P-1066	Kenmore St.	2	Copper	100	WW 1949	826	1.54	0.16	0.130
ſ	P-1067	John St.	1	Copper	100	WW 1945	320	3.08	1.26	5.310
_ [P-1068	Hall St.	6	PVC	130	WW 1987	205	1.54	0.02	0.000
ľ	P-1069	Gough Ave.	6	Cast iron	75	WW 1937	533	158.78	1.80	3.620
ł	P-1071	Payan St.	6	Cast iron	45	WW 1936	407	-13.47	0.15	0.070
ľ	P-1072	Gough Ave.	6	Cast iron	75	WW 1937	262	-93.50	1.06	0.670
ľ	P-1074	Gough Ave.	6	Cast iron	45	WW 1936	170	157.24	1.78	2.920
!	P-1075	Gough Ave.	6	Cast iron	75	WW 1936	418	95.04	1.08	1.100
	P-1076	Gough Ave.	6	Cast iron	30	WW 1886	569	60.66	0.69	3.550
ŀ	P-1077	Gouch Ave.	6	Cast iron	60	WW 1886	1105	78.49	0.89	3.080
ł	P-1078	Main St	6	Cast iron	60	WW 1885	120	319.93	3.63	4.510
ł	P.1070	Coweselt Rd	6	Cast iron	30	WW 1895	1071	1.54	0.02	0.010
ł	P_1080	Church St	6	Cast iron	30	WW 1885	1707	-3.08	0.03	0.040
-	P-1081	Church St	a l	Cast imn	45	WW 1936	247	1.54	0.02	0.000
	P-1001	Nortes St	6	Cest iron	30	WW 1885	197	-11.41	0.13	0.060
	P-1002	Nestor St.	6	Cast imo	30	WW 1885	537	-16.89	0.19	0.310
	P-1063	Foundation St.	2	Achaetos Cement	125	WW 1969	148	3.94	0.04	0.000
	P-1084	Fountain St.		Cohonized into	30	WW 1885	154	473	0.48	1.800
~ ~~	P-1085	Nestor St.	2	Galvarii2e0 iron	30	VANA/ 1885	263	1.54	0.46	0.530
	P-1086	Nestor St.	2	Galvanizeu IIOn	105	1404/ 1060	739	3.86	0.10	0.000
1	P-1087	Fountain St.	0	Aspestos Cement	120	1404/1995	240	-5.40	0.04	0.000
	P-1088	School St.	<u> </u>	Cast Iron		4444 1000 MAAN 1995	240	11 56	0.00	0.020
	P-1089	School St.	<u>b</u>	Cast iron	30	VVVV 1000	93	2 09	0.10	0.000
	P-1090	Pennsylvania Ave.	6	Cast iron	30	VVVV 1665	416	3.00	0.03	0.220
	P-1091	School St.	6	Cast fron	30	0001 0000	410	-10.17	0.10	0.220
	P-1092	Spring St.	6	Castiron	30	WW 1885	397	4.02	0.05	0.020
	P-1093	Spring St.	2	Galvanized iron	30	WW 1885	14/	1.54	0.10	0.210
	P-1094	Spring St.	2	Galvanized iron	30	WW 1885	213	1.54	0.16	0.310
	P-1095	Church St.	4	Cast iron	45	WW 1936	1224	1.65	0.04	0.030
	P-1096	Fairmont St.	6	Asbestos Cement	125	WW 1962	838	7.70	0.09	0.010
	P-1097	Rowland St.	6	Asbestos Cement	130	WW 1971	265	6.16	0.07	0.000
	P-1098	Orchard St.	6	Asbestos Cement	130	WW 1971	250	4.62	0.05	0.000
	P-1099	Orchard St.	6	Asbestos Cement	130	WW 1971	196	1.54	0.02	0.000
	P-1100	Tilton St.	6	Asbestos Cement	130	WW 1971	522	1.54	0.02	0.000
	P-1101	Church St.	4	Cast iron	30	WW 1885	114	1.54	0.04	0.010
	P-1102	Church St.	4	Cast iron	45	WW 1936	642	-7.58	0.19	0.290
	P-1103	New London Ave.	6	Cast iron	45	WW 1932	326	-9.12	0.10	0.030
	P-1104	New London Ave	6	Cast iron	45	WW 1932	503	146.04	1.66	7.550
	P-1105	New London Ave	6	Cast Iron	45	WW 1932	301	169.87	1.93	5.970
	P_1106	Cantre St	4	Cast iron	45	WW 1932	1229	-25.37	0.65	5.190
	P.1107	Legris Ave	6	Ductile Iron	135	WW 1994	359	204.37	2.32	1,310
	P_1108	Learis Ave	6	Cast iron	45	WW 1932	599	177.46	2.01	12.890
	P.1100	Main St	8	Cast iron	60	WW 1885	1656	-4.50	0.03	0.010
	P_1110	Main St	8	Cast iron	60	WW 1885	78	156.71	1.00	0.190
—	D.1117	Main St	8	Cast imn	60	WW 1885	948	43.84	0.28	0.220
	0.1142	Manchaster St	9	Cast Imn	30	WW 1885	323	3.08	0.03	0.010
	D-1113	Manhum St	8	Cast iron	30	WW 1885	518	1.54	0.02	0.000
	D 4445	Main St	8	Cast imn	60	WW 1885	522	39.22	0.25	0.100
	P-1113	Main OL	- 0	Cast iron	60	WW 1885	508	20.79	0.13	0.030
	P-1110	Main St	R	Cast imn	60	WW 1885	280	- 19.25	0.12	0.010
	1- <u>P-111/</u>	Mala Ca	0	Cactimo	0.0	WW 1885	213	1.54	0.01	0.000
	P-1118	Main St.	9	Castion	60	WW 1885	814	-214.28	1.37	3.590
	P-1119	JC (N6M		Castimn	30	WW 1885	373	6.16	0.16	0.240
	P-1120	Manchester St.	4	Castimn	30	WW 1885	621	2.37	0.06	0.070
	P-1121	Manchester St.	4		30	WW 1885	188	1.54	0.04	0.010
	P-1122	Manchester St.	4		30	WW 1885	554	2.24	0.06	0.060
	P-1123	Hepburn St.	4		120	WW 1080	594	0.71	0.07	0.010
	P-1124	Hepburn St.	4	Contine	001	WW 1885	891	221.97	1.42	4.200
	P-1125	Main St.		Cast ron	140	WW 2003	1426	-289.70	0.82	0.320
	P-1126	Pulaski St.	12	Ducture iron	140	VAW 2003	226	294.32	0.83	0.050
	P-1127	Pulaski St.	12	Ductile from	140	WW 2003	304	292.78	0.83	0.070
	P-1128	Pulaski St.	12		20	14747 2000	284	66 10	0.42	0.140
	P-1130	Main St.	8	Cast Iron		1000 1000	204	A 62	0.05	0.020
	P-1131	Remington St.	6	Castiron		CEDI VVVV	303	4.02		

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- [label	Description	Diameter	Material	Hazen- Williams C	Notes	Length (ft)	Discharge (gpm)	Velocity (ft/s)	Calculated Friction Headloss (ft)
-	P-1132	Manchester St		Cast imn	60	WW 1885	105	1.54	0.01	0.000
-	P-1132	Manchester St.	8	Cast imn	60	WW 1885	497	1.54	0.01	0.000
-	P 1124	Composit Pd	8	Acheetos Camont	115	WW 1940	499	-1.67	0.01	0.000
- F	P-1134	Cowesett Rd		Cast imn	30	WW 1895	1525	-6.86	0.18	1,210
-	P 1136	Manchester St	12	Ductile imp	130	WW 1987	322	1.54	0.00	0.000
F	P-1130	Mainchester St.	- 12 R	Cast imp	60	WW 1885	1233	60.03	0.38	0.520
-	P-1137	Fast Organization Auto	4	Cast iron	30	W/W/ 1895	94	58.49	1.49	3,960
	P-1130	East Greenwich Ave.	4	Castion	30	WW 1895	853	55.42	1.41	32.470
I.	P-1139	East Greenwich Ave.			115	VAN/ 1048	211	20.80	0.24	0.020
-	P-1140	East Greenwich Ave.		Asbestus Cement	130	MAN/ 1072	56	0.00	0.00	0.000
L	P-1141	Deerheld Ur.	8	Aspestos Cement	130	VYVY 1872	909	1.62	0.00	0.000
	P-1142	Deerfield Dr.	8	Aspestos Cement	130	VVVV 1972	000	1.02	0.01	0.000
-	P-1143	Lori Ct.	8	Asbestos Cement	130	VVVV 1972	2/1	1.34	0.01	0.000
<u> </u>	P-1144	Deerfield Dr.	8	Asbestos Cement	130	WWW 1972	397	-1.40	0.01	0.000
	P-1145	Deerfield Dr.	8	Asbestos Cement	130	WW 1972	334	4.02	0.03	0.000
	P-1146	Deerfield Dr.	8	Asbestos Cement	130	WW 1972	650	2.29	0.01	0.000
L	P-1147	Wendy Way	6	Asbestos Cement	130	WW 1971	1141	0.79	0.01	0.000
	P-1148	Deerfield Dr.	8	Asbestos Cement	130	WW 1972	435	1.54	0.01	0.000
— [P-1149	Lonsdale St.	12	Asbestos Cement	125	WW 1969	715	-3.08	0.01	0.000
[P-1150	Fawn Ln.	8	Asbestos Cement	130	WW 1977	981	-7.62	0.05	0.000
ľ	P-1151	East Greenwich Ave.	12	Ductile Iron	140	WW 2000	924	88.04	0.25	0.020
-	P-1152	Oakridge Dr.	12	PVC	130	WW 1986	205	-15.76	0.04	0.000
F	P-1154	Oakridge Dr.	12	PVC	130	WW 1986	643	-18.83	0.05	0.000
_	P-1155	Lonsdale St.	12	Asbestos Cement	125	WW 1969	957	-12,24	0.03	0.000
ŀ	P-1156	Oakridge Dr.	12	PVC	130	WW 1986	619	-21.91	0.06	0.000
ŀ	P-1157	East Greenwich Ave.	12	Ductile Iron	140	WW 2000	1244	-3.15	0.01	0.000
ł	P-1158	East Greenwich Ave.	6	Asbestos Cement	115	WW 1948	414	19.26	0.22	0.030
ŀ	P.1150	Campbell St	6	Asbestos Cement	120	WW 1952	153	17.72	0.20	0.010
	P-1161	Campbell St	6	Asbestos Cement	120	WW 1952	1499	16.18	0.18	0.060
- }	0 1162	New London Tok	8	Cast iron	70	WW 1928	133	33.17	0.21	0.010
-	P-1102	New London Tpk.	12	Ashestos Cament	130	WW 1978	181	396.29	1.12	0.080
	P-1103	New London Tok	8	Castimo	70	WW 1928	784	-18.52	0.12	0.030
	P-1164	Ferrend St		Achostos Coment	120	WW 1950	480	1.54	0.02	0.000
	P-1165	Estitorid St.	- 0	Cast iron	70	WW 1928	1247	11.48	0.07	0.020
	P-1166	New London Tpk.		Castimp	70	10/0/ 1928	786	-9.94	0.06	0.010
ļ	P-1167	New London Tpk.		Castilion	20	VANA/ 1927	1872	1.54	0.04	0.080
	P-1168	New London Tpk.	4	Cast fron	30	1 100/	2040	-275.50	0.04	0.510
	P-1169	Cowesett Rd.	12	Asbestos Cement	125	VVVV 1903	2040	277.04	0.70	0.530
	P-1170	New London Tpk.	12	Asbestos Cement	125	VVVV 1900	2102	264.88	1.03	0.470
	P-1171	New London Tpk.	12	Asbestos Cement	130	WW 1978	1190	-304,00	1.03	1 790
	P-1172	Tiogue Ave.	12	Asbestos Cement	125	WW 1965	1470	-044.70	1.03	0.000
	P-1173	Field Ave.	6	Asbestos Cement	115	WW 1947	1052	1.54	0.02	0.000
	P-1174	Tiogue Ave.	12	Asbestos Cement	125	WW 1965	307	-647.06	1.84	0.370
	P-1175	Oriole Ave.	6	Asbestos Cement	120	WW 1950	974	1.54	0.02	0.000
	P-1176	Tiogue Ave.	12	Asbestos Cement	125	1965	198	-650.93	1.85	0.240
	P-1179	St. Onge Dr.	8	Asbestos Cement	130	WW 1980	455	1.94	0.01	0.000
j	P-1180	Nicole Dr.	8	Asbestos Cement	130	WW 1980	264	1.54	0.01	0.000
	P-1181	Nicole Dr.	8	Asbestos Cement	130	WW 1980	1220	1.14	0.01	0.000
	P.1182	East Greenwich Ave.	12	Ductile Iron	140	WW 2000	454	62.72	0.18	0.010
	P.1186	Meggan Ct.	12	PVC	130	WW 1987	366	1.54	0.00	0.000
	D 1197	East Greenwich Ave	12	Ductile Iron	140	WW 2000	212	-650.61	1.85	0.210
	0 1100	Reval Dr		Ashestos Cement	130	WW 1971	132	128.21	0.82	0.050
	P 1100	East Greenwich Aun	12	Ductile Iron	140	WW 2000	649	-215.00	0.61	0.080
	P-1189	East Groenwich Ave	12	Ductila imn	140	WW 2000	489	-221.15	0.63	0.070
	P-1190	East Greenwich Ave.		Acheetee Comert	120	WW 1970	430	4.62	0.03	0.000
	P-1191	Kimpeny Ln.		Achemical Competit	130	WAW 1070	225	1.54	0.02	0.000
	P-1192	Binsas Ur.	- 0	Achertos Comont	130	WW 1970	1249	1.54	0.01	0.000
	P-1193	Kimberry Ln.	- 0	Ductile lane	140	WW 2000	273	-360.90	0.37	0.010
	P-1196	East Greenwich Ave.			140	WAN 1060	1095	1141 72	1.17	0.320
	P-1197	East Greenwich Ave.		Ascestos Cement	120	1000 1000	306	1141 72	1 17	0.070
_	P-1198	Flanders Ln.	20	Ductile Iron	140	1444 2000	300	-1141 72	1.82	0 180
	P-1199	Crompton/Setian Ln. Tank	16	Ductile fron	140	VVVV 2000	400	-100.00	1 25	13 700
	P-1200	Maple Ave.	6	Castiron	40	0000	1243	-109.90	0.04	0.010
	P-1201	Colvin St.	4	Cast iron		VVVV 1660	201	112.09	1 29	10 370
	P-1202	Maple St.	6	Cast iron	40	6861 VVVV	- 694	-112.30	- 1.20	0.000
_	P-1203	Colvin St.	6	Cast iron	50	VVV 1940	493	1.04	+ 20	0.000
-	P-1204	Maple St.	6	Cast iron	45			-116.06	1.34	0.070
	P-1205	Fairview Ave.	12	Cast iron	1. 75	WW 1885		1/4.48	0.49	0.070
	P-1207	Fairview Ave.	12	Cast Iron	75	WW 1885	281	1/2.94	0.49	0.000
	P-1208	Hoxie Ct.	8	Ductile Iron	140	WW 2002	919	1.54	0.01	0.000
	P-1209	Fairview Ave.	6	Cast iron	70	WW 1885	356	120.61	1.37	1.050
	P-1210	Fairview Ave	6	Cast iron	70	WW 1885	459	119.07	1.35	2.080
	P-1211	Fairview Ave	12	Aspestos Cement	120	WW 1950	1528	464.02	1.32	1.080
	P.1212	Hillside Ave	12	Cast iron	60	WW 1887	586		0.43	0.190
	P-1212	Fairvlaw Ava	16	Asbestos Cement	115	WW 1944	945		1.06	0.350
	D.4244	Main St	8	Cast iron	60	WW 1885	1227	-574.07	3.66	33.570
	P 1010	Hinbiand St	A I	Cast iron	30	<u>WW 1885</u>	637		1.78	23.000
	P-1210	Dourdee St	- <u> </u>	Cast iron	50	WW 1949	419	13.81	0.35	0.470
	P-1217	Cisson Ci	1	Galvanized imn	30	WW 1941	525	1.54	0.63	22.430
	P-1218	Douslas Ct		Castiron	50	WW 1949	380	10.73	0.27	0.270
	P-1219	Lougias St.								

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Label	Description	Diameter	Material	Hazen- Williams C	Notes	Length (ft)	Discharge (gpm)	Velocity (ft/s)	Calculated Friction Headloss (ft)
P-1220	Le Valley St	4	Cast iron	30	WW 1885	154	9.19	0.23	0.210
P-1221	Le Valley St.	4	Cast iron	30	WW 1885	126	-6.41	0.16	0.090
P-1223	Summit Ave.	6	Cast iron	30	WW 1885	311	2.24	0.03	0.000
P-1224	Lanphear St.	6	Cast iron	30	WW 1885	200	-5.18	0.06	0.010
P-1225	Lanphear St.	6	Cast iron	30	WW 1885	758	5.88	0.07	0.060
P-1226	Le Valley St.	4	Cast iron	30	WW 1885	326	7.95	0.20	0.340
P-1227	Providence St.	8	Ductile Iron	135	WW 1994	2137	1.54	0.01	0.000
P-1228	Ames St.	16	Asbestos Cement	120	WW 1957	643	-1364.02	2.18	0.830
P-1229	Pleasant St.	4	Cast iron	30	WW 1885	810	31.40	0.80	10.770
P-1230	Summit Ave.	6	Cast iron	30	WW 1885	378	98.44	1.12	5.790
P-1231	Summit Ave.	6	Cast iron		WW 1885	460	95.37	1.08	6.640
P-1232	Richard St.	6	Asbestos Cement	120	WW 1955	796	1.54	0.02	0.000
P-1233	Summit Ave.	6	Cast iron		WW 1885	416	-3.78	0.04	0.020
P-1235	Summit Ave.	4	Cast iron		WW 1885	549	1.54	0.04	0.030
P-1236	Summit Ave.	6	Cast iron		WW 1885	171	-68.58	0.78	1.340
P-1237	North Pleasant St.	6	Cast iron		WW 1890	857	-70.12	0.80	7.000
P-1238	Broad St.	6	Cast iron		WW 1890	769	-76.28	0.87	7.340
P-1239	North Pleasant St.	6	Cast iron		WW 1890	109	4.62	0.05	0.010
P-1240	Terrace Ave.	2	Galvanized iron	30	WW 1890	189	1.54	0.16	0.280
P-1241	North Pleasant St.	6	Cast iron	30	WW 1890	159	1.54	0.02	0.000
P-1242	North Pleasant St.	6	Cast iron	30	WW 1890	683	-6.86	0.08	0.080
P-1243	North Pleasant St.	6	Cast iron	30	WW 1890	216	-14.21	0.16	0.090
P-1244	Terrace Ave.	4	Cast Iron	30	WW 1890	489	-20.25	0.52	2.880
P-1245	North Pleasant St.	4	Cast iron	30	WW 1890	1009	4.50	0.11	0.370
P-1246	North Pleasant St.	6	Asbestos Cement	130	WW 1975	695	2.96	0.03	0.000
P-1248	Broad St.	6	Cast iron	30	WW 1890	1010	5.81	0.07	0.080
P-1250	Highland St.	8	Cast iron	60	WW 1885	218	-8.81	0.06	0.000
P 1251	Main St.	8	Cast iron	60	WW 1885	1748	174.88	1.12	5.290
P-1252	Highland St.	8	Cast iron	60	WW 1885	176	173.35	1.11	0.520
P-1253	Highland St	6	Ductile Iron	135	WW 1994	178	171.81	1.95	0.470
P.1254	Pleasant St	6	Cast iron	30	WW 1885	835	17.34	0.20	0.510
P.1255	Pleasant St	6	Cast iron	30	WW 1885	194	-15.52	0.18	0.100
P.1258	Main St	8	Cast iron	60	WW 1885	234	575.61	3.67	6.430
P-1257	Pleasant St	6	Cast iron	30	WW 1885	304	-12.18	0.14	0.100
D 1257	Fainder Ave	16	Cast iron	75	WW 1895	219	-453.88	0.72	0.090
P-1250	Fairview Ave	12	Cast iron	75	WW 1895	276	292.08	0.83	0.200
P-1239	Fairview Ave	12	Cast iron	75	WW 1895	198	-606.39	1.72	0.550
P 1261	Fainview Ave	12	Cast iron	60	WW 1895	274	150.97	0.43	0.090
P-1201	Piner Forme Dr. Forement	12	PVC	130	WW 1989	1740	124.09	0.35	0.090
P-1204	Alala St	- 12	Cast imp	60	WW 1936	136	122.97	1.40	0.870
P-1265	Wakefield St. Took	12	Ductile Iron	135	WW 1990	310	853.41	2.42	0.550
P-120/	VVakeneid St. Latik	12	Ductile Imp	140	WW 2001	570	444.05	1.26	0.280
P-1200	Easement		Ouctile from	135	WW 1997	643	18.92	0.12	0.010
P-1209	Eoggers Kun		Ouctile Imn	135	WW 1997	418	34.52	0.22	0.010
P-12/0	Crossburgh Rd	- 16	Ashestos Cement	130	WW 1973	93	-325.95	0.52	0.010
P-12/2	Acom L n	12	Ductile Imn	140	WW 2000	817	-82.78	0.23	0.020
P-12/3	Additi Lit.	12	Ductile Imn	140	WW 2000	1557	-130.23	0.21	0.020
P-12//	Noungham Dr.	- 12	Ductile Iron	140	WW 2002	210	0.00	0.00	0.000
P-1280	West St. Talk	12	Ductile Imn	140	WW 2002	142	0.71	0.00	0.000
P-1281	West SL Tank	12	Cast imp	75	WW 1930	276	0.71	0.00	0.000
P-1282	VVest St. Lank		Cartimo	75	WW 1030	98	0.00	0.00	0.000
P-1283	west St. Tank	<u> </u>	Cast iron		WW 1885	1	-39 24	0.45	0.230
P-1285	Main St.				WA/ 1886	380	1.54	0.02	0.000
P-1287	Bradley Ct.	- 6	Cast ron		WAN 1030	764	-660 22	1.87	1.180
P-1289	West St.	12	Duratile lane	140	WW 2002	251	-58.92	0.38	0.020
P-1291	Curson St.	8	Achaetes Comont	125	WW/ 1080	324	0.00	0.00	0.000
P-1293	East Greenwich Ave.	20	Aspesios Cement	120	WAN 1086	817	-96.02	0.27	0.020
P-1294	East Greenwich Ave.	12		130	W/W 1000	833	6.23	0.02	0.000
P-1295	East Greenwich Ave.	12		440	WW 2000	770	-296 57	0.84	0.180
P-1296	East Greenwich Ave.	12	Ductile Iron	140	1464/ 1000	637	-130.37	0.04	0,000
P-1298	Flanders Dr.	20	Aspestos Cement	125	VVVV 1909	A12	1 54	0.02	0.000
P-1300	Hoover St.	6	Ductile from	140	1000	255	0.00	0.00	0.000
P-1304	Crompton/Setian Ln. Tank		Ductie Iron	140	WAA/ 1090	200	65.52	0.19	0.000
P-1305	Wakefield St.		Aspestos Cement	130	VIII 1800	200	- 154	0.00	0.000
P-1306	Wakefield St. (Private)			1.35	- VAN/ 1072	<u></u>	17.87	0.11	0.010
P-1307	Providence St.	8	Aspestos Cement	130	MAN 1022	- <u>694</u>	2 40	0.06	0.030
P-1308	New London Ave.	4	Cast tron	40	WWW 1952	100	.15 52	0.00	0.020
P-1309	Walte St.	6	Aspestos Cement	120	VVVV 1930		17.02	0.10	0.000
P-1310	Creamer Ave.	8	Ductile Iron	135	VVVV 1999		3.08	0.02	1 0 000
P-1311	Creamer Ave.	8	Ductile Iron	135	AAAA 1999	301	25.00	0.02	1.350
P-1312	New London Ave.	4	Cast iron	45	-1 WWW 1932	- 313	23.01	0.00	0.010
P-1313	Sykes St.	8	Ductile Iron	135	VVVV 1999	201	320.22	0.14	0.080
P-1314	Archambault Ave.	12	Asbestos Cement	115	WW 1944	201	348.33	0.00	0.000
P-1315	Industrial Rd.	j 16	Ductile fron	135	WW 1998	146	0.00	0.00	1 0.000
P-1316	Providence St.	8	Ductile Iron	135	WW 1994	898	-4.04	0.03	
P-1317	Providence St.	8	Ductile Iron	135	WW 1994	284	-14.06	0.09	
P-1318	Providence St.	8	Asbestos Cement	130	WW 1972	531	-17.15	0.11	0.010
P-1310	River Farms Dr.	12	PVC	130	WW 1989	425	106.41	0.30	<u> </u>

Label	Description	Diameter (in)	Material	Hazen- Williams C	Notes	Length (ft)	Discharge (gpm)	Velocity (ft/s)	Friction Headloss (ft
P-1320	River Farms Dr.	12	PVC	130	WW1989	2126	133.32	0.38	0.130
P-1321	Krystal Pond Dr.	8	PVC	135	WW 1990	415	-28.45	0.18	0.010
P-1322	Krystal Pond Dr.		PVC	135	WW 1990	114	1.54	0.01	0.000
P-1323	Krystal Pond Dr.	8	Ductile Iron	140	WW 2002	275	-31.53	0.20	0.010
P-1324	Krystal Pond Dr.	8	Ductile Iron	140	WW 2002	556	-31.36	0.20	0.010
P-1325	River Farms Dr.	12	PVC	130	WW 1989	479	60.90	0.17	0.010
P-1326	River Farms Dr.	12	PVC	130	WW 1989	998	144.10	0.41	0.070
P-1327	Dairy Farm Rd.	12	Ductile Iron	140	WW 2003	364	-84.74	0.24	0.010
P-1328	Dairy Farm Rd.	12	Ductile Iron	140	WW 2003	562	-86.28	0.24	0.010
P-1329	Dairy Farm Rd.	12	Ductile Iron	140	WW 2003	318	-87.81	0.25	0.010
P-1330	Wakefield St.	12	Aspestos Cement	130	WW 1980	201	109,49	0.45	0.020
P-1331	Wakefield St.	12	Asbestos Cement	1.40	1464/ 2002	500	80.35	0.15	0.020
P-1332	Dairy Farm Rd.	- 12	Ductile iron	140	1404/ 1007	647	1035 98	294	1 630
P-1333	vvakeneki St.	- 12 -	Acharter Comort	115	WW 1937	200	28.35	0.18	0.010
P-1334	Hillion Ave.	6	Asbestos Coment	110	WW 1931	249	1.54	0.02	0.000
P-1335	Main St	8	Cast imn	75	WW 1935	96	-323.57	2.07	0.600
P-1330	Main St.	8	Cast imn	75	WW 1935	323	2.69	0.02	0.000
P-1337	Ambambault Ave	12	Ashestos Cament	115	WW 1944	399	327.79	0.93	0.160
P-1330	Wasver St	4	Cast imn	30	WW 1890	327	10.84	0.28	0.610
P-1339	Providence St		Cast iron	60	WW 1885	577	-227.28	0.93	0.960
P-1341	Providence St	10	Cast iron	60	WW 1885	133	-230.00	0.94	0.230
P-1342	Central St	6	Cast iron	30	WW 1886	251	-1.18	0.01	0.000
P-1343	Junior St	6	Cast iron	40	WW 1922	138	14.43	0.16	0.040
P-1344	Junior St	6	Cast iron	40	WW 1922	354	14.93	0.17	0.100
P-1345	Providence St	6	Ductile tron	130	WW 1989	212	-1.54	0.02	0.000
P-1346	Providence St	6	Ductile Iron	130	WW 1989	132	-5.11	0.06	0.000
P-1347	Junior St	8	Ductile Iron	140	WW 2002	283	-2.04	0.01	0.000
P-1348	East Main St.	12	Asbestos Cement	120	WW 1951	529	-45.04	0.13	0.010
P-1349	East Main St.	12	Asbestos Cement	120	WW 1951	131	-52.74	0.15	0.000
P-1350	East Main St.	6	Cast iron	30	WW 1886	718	-16.89	0.19	0.420
P-1351	East Main St.	6	Cast iron	30	WW 1885	794	-12.26	0.14	0.260
P-1352	Pike St.	4	Cast iron	30	WW 1885	545	6.16	0.16	0.360
P-1353	Clyde St.	6	Cast iron	30	WW 1886	532	8.54	0.10	0.090
P-1354	Clyde St.	6	Cast iron	30	WW1886	177	16.73	0.19	0,100
P-1355	Industrial Ln.	6	Cast iron	30	WW 1886	77	9.72	0.11	0.020
P-1356	Wightman St.	12	PVC	130	WW 1988	79	3.92	0.01	0.000
P-1357	Wightman St.	12	PVC	130	WW 1988	1314	458.67	1.30	0.790
P-1358	Clyde St.	12	PVC	130	WW 1980	199	456.28	1.29	0.120
P-1359	Vine St.	4	Cast iron	30	WW 1886	615	1.54	0.04	0.030
P-1360	Phenix Ave.	6	Cast iron	45	WW 1932	127	74.15	0.84	1 210
P-1361	Phenix Ave.	6	Cast iron	45	WW 1932	306	/1.0/	0.02	0.000
P-1362	Newlight St.	6	Asbestos Cement	125	WW 1966	600	1.54	0.02	0.000
P-1363	Phenix Ave.	6	Cast iron	45	WW 1932	270	1.54	0.02	0.960
P-1364	Ledge Dr.	6	Asbestos Cement	120	WW 1955	300	1.04	0.02	0.000
P-1365	Lachance St.	6	Cast iron	45	WW 1938	329	-57,05	0.03	0.000
P-1366	Webster St.	4	Cast iron	35	WWW 1910	369	4.02	0.12	0.110
P-1367	Pawtuxet Ter.	12	Ductile Iron	140	VVVV 2003	407	-03.03	0.44	0.010
P-1370	Bratt Ln.	12	Ductile Iron	140	VVVV 2000	13/	0.00	0.00	0.000
P-1371	Bratt Ln.	8	Asbestos Cement	130	VVVV 1975	1100	-30.02	0.01	0.000
P-1372	Bratt Ln.	12	Ductile Iron	140	1404/ 2000	1420	20.06	0.01	0.000
P-1373	Bratt Ln.	12	Ductile Iron	140	1404/ 2000		17 14	0.11	000
P-1374	Bratt Ln.	8		140	WW 2000	1120	51 22	0.33	0.080
P-1375	Bratt Ln.		Aspestos Cement	130	WW 1975	251	-81.25	0.52	0.040
P-1376	Bratt LO.		Aspestos Cement	130	WW 1975	403	-130.92	0.84	0.170
P-13/7	Casement		Ductile imn	135	WW 1991	379	-243.71	0.39	0.020
P-13/8	Drawbridge Dr.	16	Ductile Imn	135	WW 1991	350	-246.79	0.39	0.020
P-13/9	Michy Oak Ct	<u> </u>	Ductile Imn	135	WW 1991	163	1.54	0.02	0.000
P-1300	Wechington St	12	Cast iron	60	WW 1886	231	11,54	0.03	0.000
P-1301	Monie St	ĥ	Asbestos Cement	115	WW 1948	122	1.54	0.02	0.000
D-1202	Roundway Dr	6	Asbestos Cement	120	WW 1953	159	1.54	0.02	0.000
P-1384	Wilshine Way	6	Asbestos Cement	120	WW 1955	222	13.81	0.16	0.010
P-1385	Sheffield Ave	6	Asbestos Cement	120	WW 1954	124	- 26.06	0.30	0.010
P.1386	Drawbridge Dr.	8	Ductile Iron	135	WW 1991	422	-43.88	0.28	0.020
P-1387	Drawbridge Dr.	8	Ductile Iron	135	WW 1991	345	-46.95	0.30	0.020
P-1388	Arrow Ct.	6	Ductile Iron	135	WW 1991	210	1.54	0.02	0.000
P-1389	Quill Dr.	8	Ductile Iron	135	COV 1991	225	1.54	0.01	0.000
P-1390	Javcee Dr.	8	Asbestos Cement	125	WW 1962	381	•102.37	0.65	0.110
P-1391	Jaycee Dr.	8	Asbestos Cement	125	WW 1962	302	0.00	0.00	0.000
P-1392	Greenbush Rd.	12	Ductile Iron	140	WW 2000	730	-368.59	1.05	0.250
P-1393	Greenbush Rd.	12	Ductile Iron	140	WW 2000	280	-370.13	1.05	0.100
P-1394	Greenbush Rd.	8	Ductile Iron	140	WW 2000	277	-103.90	0.66	0.070
P-1395	Greenbush Rd.	16	Asbestos Cement	130	WW 1973	660	303.45	0.48	0.030
P-1396	Greenbush Rd.	12	Asbestos Cement	130	WW 1973	268	198.00	0.00	0.030
P-1397	Greene St.	4	Cast iron	45	WW 1933	301	12.07	0.00	0.000
P-1398	Greene St	8	Asbestos Cement	110	WW 1933	259	1 09.14	1 0.37	0.010

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Label	Description	Diameter	Material	Hazen- Williams C	Notes	1 enoth (ff)	Discharge (com)	Velocity (ft/s)	Friction Headloss (f
Label			Contimo	45	VAA/ 1033	440	-21.69	0.55	1 420
P-1399	Greene St.	4	Cast Iron	40	VVVV 1955	449	-21.03	0.00	0.000
P-1400	East Greenwich Ave.	12	Ductive iron	140	VVVV 2000	100	-0.77	0.02	0.000
P-1401	East Greenwich Ave.	12	Ductile Iron	140	VVVV 2000	1244	22.37	0.00	0.000
² -1402	Juniper Dr.	8	Asbestos Cement	130	VVVV 1977	1344	32.22	0.21	0.040
P-1403	Juniper Dr.	8	Aspestos Cement	130	1404/ 1977	1/1	700.05	0.00	0.000
P-1404	East Greenwich Ave.	20	Aspestos Cement	125	VVVV 1909	3352	790.05	0.01	0.450
P-1406	Juniper Dr.	8	Ductile fron	140	WW 2000	393	-30.05	0.20	0.010
P-1407	East Greenwich Ave.	12	Ductile Iron	140	WW 2000	154	-64.26	0.18	0.000
P-1409	Surrey Ln.	8	Asbestos Cement	130	WW 1975	153	0.00	0.00	0.000
P-1410	Surrey Ln.	8	Asbestos Cement	130	WW 1975	428	-65.18	0.42	0.050
P-1411	East Greenwich Ave.	20	Aspestos Cement	125	WW 1969	654	788.51	0.81	0.100
P-1413	Surrey Ln.	8	Ductile Iron	140	WW 2000	387	-63.64	0.41	0.040
P-1414	East Greenwich Ave.	12	Ductile Iron	140	WW 2000	207	-2.15	0.01	0.000
P-1415	East Greenwich Ave.	12	Ductile Iron	140	WW 2000	288	-5.23	0.01	0.000
P-1416	Timber Walk	8	Ductile Iron	140	WW 2002	690	1.54	0.01	0.000
P-1418	East Greenwich Ave.	12	Ductile Iron	140	WW 2000	541	37.55	0.11	0.000
0-1410	Mennan Ct	12	PVC	130	WW 1987	175	0.00	0.00	0.000
D 1430	Meggen Ot	12	PVC	130	WW 1987	381	22.09	0.06	0.000
-1420	Fact Crosswitch Ave	20	Aspectos Cament	125	WW 1969	322	786.97	0.80	0.050
P-1421	East Greenwich Ave.	12	Ductile imp	140	WW 2000	231	23.63	0.07	0.000
P-1423	Meggan Ct.			130	WW 1987	250	0.00	0.00	0.000
r-1426		12		120	WW 1087	631	-19.01	0.05	0.000
H-1427	Lauren Ln.	- 12	Asharta- Comort	100	WW 1060	507	785 44	0.80	0.070
P-1428	East Greenwich Ave.		Aspesios Cement	140	VVVV 1000	307	-17 47	0.05	0.000
P-1430	Lauren Ln.	12	Ductile Iron	140	VVVV 2000	507	53.40	0.00	0.000
P-1431	East Greenwich Ave.	12	Ductile Iron	140	VVVV 2000	320	0.00	0.00	0.010
P-1433	St. Onge Dr.	8	Asbestos Cement	130	VVVV 1980	492	4.00	0.00	0.000
P-1434	St. Onge Dr.	8	Asbestos Cement	130	VVVV 1980	005	4.02	0.03	0.000
P-1435	East Greenwich Ave.	20	Asbestos Cement	125	WW 1969	825	783.90	0.80	0.120
P-1436	East Greenwich Ave.	20	Asbestos Cement	125	WW 1969	894	782.36	0.80	0.130
P-1437	St. Onge Dr.	8	Ductile Iron	140	WW 2000	315	6.16	0.04	0.000
P-1438	Green Bush Rd.	16	Ductile iron	140	WW 2000	1951	-362.44	0.58	0.160
P-1440	Nottingham Dr.	8	Asbestos Cement	130	WW 1973	404	-56.96	0.36	0.040
P-1441	Nottingham Dr.	8	Asbestos Cement	130	WW 1973	198	-191.81	1.22	0.170
P-1442	Notfingham Dr.	16	Ductile Iron	140	WW 2000	1071	-131.77	0.21	0.010
P-1443	Nottionham Dr.	16	Ductile Iron	140	WW 2000	333	0.00	0.00	0.000
D 1444	Nottingham Dr	8	Ductile Iron	140	WW 2000	114	133.31	0.85	0.040
D 4 4 4 5	Maid Madan Lo	8	Ashestos Cement	130	WW 1978	376	4.62	0.03	0.000
D 1446	Maid Marian Lo	R	Ashestos Cement	130	WW 1978	712	1.54	0.01	0.000
-1440	Man Manan Lo.		Achectos Cement	130	WW 1978	890	1.54	0.01	0.000
P-144/	Lancer Ln.	0	Asbestos Compat	130	WW 1973	656	-364.64	0.58	0.060
P-1448	Green Bush Kd.	0	Asbestos Cement	130	WAN 1973	518	-455.72	0.73	0.080
P-1449	Green Bush Rd.	16	Aspesios Cemeni	130	VANAL 1088	1763	_88.00	0.36	0.120
P-1450	Easement	10	PVC	130	1404/ 1000	178	-90.54	0.37	0.010
P-1451	Easement	10	PVC	130	VVVV 1900	206	262.07	1.03	0.100
P-1452	Green Bush Rd.	12	Ductile Iron	140	WW 2000	200	-303.87	1.04	0.100
P-1453	Green Bush Rd.	12	Ductile Iron	140	WW 2000	697	-305.51	0.00	0.010
P-1454	Easement	10	Ductile Iron	140	WW 2000	417	0.00	0.00	0.000
P-1455	Green Bush Rd.	12	Ductile Iron	140	WW 2000	930	-367.05	1.04	0.320
P-1456	Acom La.	8	Asbestos Cement	130	WW 1973	103	3.08	0.02	0.000
P-1457	Acom La.	8	Asbestos Cement	130	WW 1973	75	1.54	0.01	0.000
P-1458	Acom Ln.	8	Ductile Iron	140	WW 2000	339	0.00	0.00	0.000
P-1459	Cone Dr.	12	Ductile Iron	140	WW 2000	152		0.24	0.000
P-1460	Cone Dr	12	Ductile Iron	140	WW 2000	288	-127.16	0.36	0.010
P-1461	Cone Dr	8	Asbestos Cement	130	WW 1973	324	-117.72	0.75	0.110
D-1462	Cone Dr		Asbestos Cement	130	WW 1973	130	-77.97	0.50	0.020
P-1402	Cone Dr	A	Ductile Imn	140	WW 2000	54	-41.29	0.26	0.000
P 1403	Cmechow Lo	16	Ductile Iron	140	WW 2000	841	1.54	0.00	0.000
0.1465			PVC	130	WW 1986	435	1.54	0.02	0.000
P-1465	Locust Dr.	0 E	PVC	130	WW 1986	315	-1.54	0.02	0.000
P-1466	Locust Dr.		Acheotop Coment	125	WW 1969	697	183.99	0.52	0.080
P-1467	Setian Ln.	12	Asbestos Cement	125	WW 1969	1195	123.01	0.35	0.070
P-1468	Settan Ln.	12	Asbestos Comon	130	WW 1977	548	-26.50	0.17	0.010
P-1469	Pine Orchard Rd.	8	Aspestos Cement	130	VANA 1077	1022	31.40	0.20	0.030
P-1470	Pine Orchard Rd.	8	Aspestos Cement	130	1000 1000	307	59 44	0.38	0.03
P-1471	Easement	8	Aspestos Cement	120	1404/ 4065	211	- 270 89	0.77	0.20
P-1472	Cowesett Rd.	12	Asbestos Cement	125	VVVV 1905	4995	-210.00	0.77	0.20
P-1473	Cowesett Rd.	12	Asbestos Cement	125	VVVV 1965	1333	-213.80	4 19	0.00
P-1474	Cowesett Rd.	8	Asbestos Cement	115	WW 1940	499	184.29	1.10	0.00
P-1475	Pond View Dr.	8	Ductile iron	135	WW 1998	441	4.62	0.03	0.00
P-1476	Coit Ave.	6	Asbestos Cement	125	WW 1968	277	42.21	0.48	0.06
P.1477	Colt Ave	8	Asbestos Cement	125	WW 1968	495	40.67	0.26	0.03
P-1479	Penneyhania Ave	6	Ductile iron	130	WW 1989	100	1.54	0.02	0.00
P-1470	Downer St	- 8	PVC	130	WW 1986	308		0.02	0.00
D-1400	Dawee St	1 1	Cooper	70	WW 1935	350	-5.25	2.15	30.25
C-1400	Maia Ct		Cast Iron	60	WW 1885	502	-162.74	1.04	1.33
P-1481	Main SL	Q	Castimn	60	WW 1885	220	-168.90	1.08	0.62
P-1482	Main St.		Castimn	30	WW 1885	325	4.62	0.05	0.02
P-1483	wyman St.		Caet imn	30	WW 1885	314	1.54	0.16	0.46
P-1484	Pearson St.		Castion	30	WW 1885	111	1.54	0.02	0.00
I P-1485	www.man.st.		Castion						

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		Diameter		Hazen-			Discharge	Velocity	Friction
Labal	Description	(in)	Material	Williams C	Notes	Length (ft)	(gpm)	(ft/s)	Headloss (ft)
	Coomp St		Cast imp	35	WW 1910	480	3.08	0.08	0.070
P-1480	Capiton St	2	Galvanized imn	30	WW 1910	341	1.54	0.16	0.500
P-140/	Capion Sc.	4	Castimn	30	WW 1900	200	3.08	0.08	0.040
P-1400	Daker St.		Galvanized imn	30	WW 1900	175	1.54	0.16	0.260
P-1409	Daker St.	8	Ductile Iron	140	WW 2004	509	4.62	0.03	0.000
P-1490	Duke St.	8	Ductile Ima	140	WW 2004	134	1.54	0.01	0.000
P-1491	Duke St.	- 0	Ductile imn	140	WW 2004	218	1.54	0.01	0.000
P-1492	Camid St		Ductile Iron	135	WW 1999	360	1.54	0.01	0.000
P-1493	Geraio St.		Certimo	75	WW 1939	404	-212.02	1.35	1.160
P-1494	Legns Ave.		Cast inn	75	WW 1939	330	-254.37	1.62	1.320
P-1495	Legns Ave.	<u>_</u>	Castinn	75	WW 1939	370	-261.65	1.67	1.560
P-1496	Legns Ave.		Cast iron	75	WW 1939	553	-255.79	1.63	2.240
P-1497	Legns Ave.	8	Achestos Cement	120	WW 1959	357	293.92	1.88	0.780
P-1498	Legns Ave.		Ashestos Cement	120	WW 1959	3543	233.18	1.49	5.060
P-1499	Moin St	8	Castiron	75	WW 1935	769	-2.13	0.01	0.000
P-1000	Main St.	8	Cast ima	75	WW 1935	887	-7.27	0.05	0.000
P-1501	Mider St.	4	Cast imn	30	WW 1885	320	-3.60	0.09	0.080
P-1002	Const St		Conner	100	WW 1987	200	1.79	0.18	0.040
P-1503	Oranii SL		PVC	130	WW 1987	175	-1.29	0.01	0.000
P-1504	Giant St		Corpoer	100	WW 1987	352	0.25	0.05	0.010
P-1305	Grant St.		PV/C	125	WW 1963	298	1.87	0.02	0.000
P-1506	Ontario St.		Galvanized imn	30	WW 1963	250	0.33	0.03	0.020
P-1507	Comit St		Conser	70	WW 1947	277	1.54	0.28	0.340
P-1508	Geraid St.	47	Ashestos Cement	120	WW 1959	92	-371.67	1.05	0.040
P-1510	New London Ipk.	<u>) (6</u>	Ductile Imn	140	WW (new Guillen	250	3.34	0.02	0.000
P-1511			Discrize Iron	140	WW (new Guillen	250	1.67	0.01	0.000
P-1512		0	Ductile Iron	140	WW (new Sunrise	280	3.12	0.02	0.000
P-1513	Sunnse Ave.		Ductile Imn	140	WW (new Sunrise	310	2.08	0.01	0.000
P-1014			Ductile Imn	140	WW (new Sunrise	150	1.04	0.01	0.000
P-1010		A	Ashestos Cement	130	WW 1965	319	90.75	1.03	0.280
P-1516	Greens St		Ashestos Cement	120	WW 1952	358	-85.05	0.97	0.320
P-1018	Greene St.	<u> </u>	Ductile Imn	140	WW (new Sunrise	550	0.00	0.00	0.000
P-1519	Prospect Hill Ave	6	Asbestos Cement	130	WW 1981	281	9.33	0.11	0.000
P-1020	Silverun Cir		Ductile Iron	140	WW (new Green	420	12.50	0.08	0.000
P-1622	Silverup Cir	- <u>8</u>	Ductile Iron	140	WW (new Green	500	2.94	0.02	0.000
P-1022	Silveron Cir		Ductile fron	140	WW (new Green	400	-3.31	0.02	0.000
P-1023	Compton Pd	16	Ductile Iron	135	EG 1991	543	-95.66	0.15	0.000
P 1525	Gentry Glen Condos	8	Ductile Iron	140	WW (new Subdiv	160	17.22	0.11	0.000
P-1343	Centro Glen Condos	- A	Ductile Iron	140	WW (new Subdiv	60	14.35	0.09	0.000
P-1320	Contry Gien Condos		Ductile Iron	140	WW (new Subdiv	450	11.48	0.07	0.000
P-102/	Gentry Glan Condos	8	Ductile Iron	140	WW (new Subdiv	200	8.61	0.05	0.000
P-1528	Gentry Gien Condos	<u>0</u>	Ductile Imn	140	WW (new Subdiv	A 250	2.87	0.02	0.000
P-1029	Occurridae De		Ductile Imo	135	WW 1991	235	-347.14	0.55	0.020
P 1530	Costs: Clas Costas	A 10	Ductile Imn	140	WW (new Subdiv	n 260	2.87	0.02	0.000
P-1032	Comerce St	R	Ductile Imn	140	WW (new Sunris	e 420	-86.59	0.55	0.070
P-1533	Cotion I n DC		Ductile ima	140	WW 2004	213	834.29	0.85	0.030
P-1534	Cremeton/Seties I.n. Task	16	Ductile Imn	140	WW 2000	117	-1141.72	1.82	0.080
P-1535	Croinploivoetian Ln. Tank	18	Ductile Iron	140	WW 2004	99	0.00	0.00	0.000
P-1536	Setion to DS	- 10	Ductile imn	140	WW 2004	10	834.29	1.33	0.000
P-153/		A 10	Ductile Iron	140	WW 2004	6	834.29	5.33	0.070
P-1538	Setian Ln. 73		Ductile Iron	140	WW 2004	6	834.29	9,47	0.270
P-1539	Setion to PS	16	Ductile Imn	140	WW 2004	10	0.00	0.00	0.000
P-1540	Setian Ln. PS	R	Ductile Imn	140	WW 2004	6	0.00	0.00	0.000
P-1541	Setion Lo. PC		Ductile Iron	140	WW 2004	6	0.00	0.00	0.000
P-1042	Setian I.n. PS	12	Ductile Iron	140	WW 2004	10	834.29	2.37	0.020
P 1543	Setian Lin, PO	12	Ductile Iron	140	WW 2004	10	-834.28	2.37	0.020
P-134/	Catian Ln. PC	12	Ductile tron	140	WW 2004	598	834.28	2.37	0.940
P-1046	Inductrial Dd	16	Ductile Iron	135	WW 1998	217	3.48	0.01	0.000
P-1349	Industrial Pd	16	Ductile Iron	135	WW 1998	313	0.00	0.00	0.000
P-1000			Ductile iron	140	WW 2004	286	0.00	0.00	0.000
P-1001		6	Ductile Iron	140	WW 2004	6	0.00	0.00	0.000
P 1552		- V R	Ductile Iron	140	WW 2004	6	0.00	0.00	0.000
P-1553			Ductile Iron	140	2004	293	0.00	0.00	0.000
P-1004	Amgen PS		Ductile Iron	140	WW 2004	10	- 0.00	0.00	0.000
P-1000		6	Ductile Iron	140	WW 2004	6	0.00	0.00	0.000
P+1000			Ductile Iron	140	WW 2004	6	0.00	0.00	0.000
P-100/	Amoon DC	- <u> </u>	Ductile Iron	130	WW 2004	10	0.00	0.00	0.000
P 1500	Giloraet Cir	A	Ductile iron	140	WW 2001	348	0.93	0.01	0.000
P-1500	Hillton Condos	8	Ductile Iron	140	WW (new subd	ivi 250	0.00	0.00	0.000_
P-1061	Hillton Condos	A	Ductile Iron	140	WW (new subd	vi 380	0.00	0.00	0.000
P-1562	Hilton Condos		Ductile Iron	140	WW (new subd	ivi 65	0.00	0.00	0.000
P-1963	Hillitan Condes	8	Ductile Iron	140	WW (new subd	ivi 438	0.00	0.00	0.000
P-1564	Hillton Condos		Ductile iron	140	WW (new subd	tvi 425	0.00	0.00	0.000
P-1565	Cardala Dd	12	Ductile Iron	140	WW 2000	317	1.54	0.00	0.000
P-1566	Casino	8	Ductile Iron	140	WW (proposed	Ci 615	5.04	0.03	0.000
P-106/			Ductile Iron	140	WW (proposed	Ci 360	-5.04	0.03	0.000
P-1568		- Ř	Ductile Iron	140	WW (proposed	CI 385	-5.04	0.03	0.000
I 7-1009	Quality	· · · · · ·							

Label	Description	Diameter (in)	Material	Hazen- Williams C	Notes	Length (ft)	Discharge (gpm)	Velocity (ft/s)	Friction Headloss (ft
P-1570	Casino	8	Ductile Iron	140	WW (proposed Ca	375	5.04	0.03	0.000
C 4574	Casino		Durtile iron	140	WW (proposed Ca	500	5.04	0.03	0.000
P-15/1	Casillo		Ductile iron	140	1404/ 2000	605	6.57	0.02	0.000
P-15/2	Lacroix Dr.	12	Ducule non	140	VVVV 2000	000	0.01	0.04	0.000
P-1573	J.P. Murphy Hwy	16	Asbestos Cement	130	VVVV 1960	2345	23.12	0.04	0.000
P-1574	JP Murphy Hwy	16	Ductile Iron	140	WW (new high se	483	3.47	0.01	0.000
P-1575	Hilltop Condos Meter & Backflow Preventer	8	Ductile fron	140	WW (new subdivi	10	0.00	0.00	0.000
P-1576	Gentry Gien Condos	8	Ductile iron	140	WW (new Subdivi	50	17.22	0.11	0.000
0.4577	Ticous Aut	12	Achestos Comont	125	WW 1965	370	-643.24	1.82	0.450
P-1577	Liogue Ave.	12	Aspestos Cement	123	1444 1900	200	06.00	0.27	0.010
P-1579	East Greenwich Ave.	12	PVC	130	WW 1966	322	-90.02	0.27	0.010
P-1580	Royal Hatheway Heights	8	Ductile Iron	140	WW (new subdivi	250	0.00	0.00	0.000
P-1581	Learis Ave	8	Cast iron	75	WW 1939	620	-308.30	1.97	3.550
D 4 500	Logiis / Vo.		Ductile imp	140	WAN /I enris Ave	10	-96.27	0.61	0.000
P-1582	West Gien Ln.	0	Ducule non	140	Head (Legels Ave	270	06.17	0.61	0.090
P-1583	West Glen Ln.	8	Ductile Iron	140	WWW (Legns Ave.	370	-90.27	0.01	0.000
P-1584	West Glen Ln.	8	Ductile Iron	140	WW (Legris Ave.	370	-100.02	0.64	0.080
P-1585	Royal Hatheway Heights	8	Ductile Iron	140	WW (new subdivi	250	0.00	0.00	0.000
P-1500	1 togar national riolgitus		Ductile Imp	1/0	WW (Arthur St. C.	10	0.00	0.00	0.000
P-1588	Antriker SL	0		140	NADAL (A man St. C.	210	0.00	0.00	0.000
P-1589	Arthur St.	8	Ducale iron	140	AAAAA CHIRAN OF CH	310	0.00	0.00	0.000
P-1590	Arthur St.	8	Ductile Iron	140	WW (Arthur St. C	210	0.00	0.00	0.000
D.1601	Esmond St	6	Asbestos Cement	120	WW 1950	411	-31.54	0.36	0.060
F-135			Ductile Imp	140	WW (new residen	30	-33.08	0.21	0.000
P-1592	Flat Top Condos	0	Ducue non	440	MAN (new realder	50	-33.08	0.21	0.000
P-1593	Flat Top Condos	8	Ductile Iron	140	VVVV (new resider	30		0.21	0.000
P-1594	Fiat Too Condos	8	Ductile Iron	140	WW (new resider	165	-33.08	j 0.21	0.000
P-1505	Flat Top Condos	8	Ductile Ima	140	WW (new resider	80	-33.08]0.21	0.000
1090			Dustils inco	140	WW /new necider	105	-33 08	0.21	0.000
P-1596	Flat Top Condos	0		140	MARA (new residen	100	33 00	0.21	0,000
P-1597	Flat Top Condos	8	Ductile Iron	140	VVVV (new resider	23	-33.00	0.21	0.000
P-1598	Esmond St.	6	Asbestos Cement	120	WW 1950	182	1.54	0.02	0.000
D 4600	East Consoudet Aun	8	Ashestos Cement	115	WW 1948	660	53.88	0.61	0.270
F-1099	East Gidenwich Ave.		Puetile Imp	140	WW (new resider	372	-33.08	0.21	0.000
P-1600	Flat Top Condos	8	Ducule Iron	140	VYYY THEW TESHOOT	400	06.07	0.24	0.000
P-1601	Pawtuxet Ter.	12	Ductile iron	140	WW 2003	100	-03.37	0.24	0.000
P-1602	Pulaski St	12	Ductile Iron	140	WW 2003	214	291.24	0.83	0.050
D 4002	Harbour Aug	8	Ductile Imp	140	WW 2003	316	-106.70	0.68	0.080
P-1603	Harbour Ave.			60	1484/ 1000	651	17.08	0.11	0.030
P-1604	Matteson Ave.	8	Cast Iron	00	VVVV 1900	001	48.05	0.00	0.030
P-1605	Harbour Ave.	8	Ductile Iron	140	WW 2003	308	-45.25	0.29	0.020
P 1606	Harbour Ave	8	Ductile Iron	140	WW 2003	384	-37.16	0.24	0.010
F-1000	Dias Of		Ductile Imp	140	WW 2005	408	16.50	0.19	0.010
P-1607	Pine Şt.	0	Ducule lion	405	VARA/ 1000	16	0.00	0.00	0.000
P-1608	Creamer Ave.	6	Ductile Iron	135	<u>AAAA 1999</u>	13	0.00	0.00	0.000
P-1609	Kulas Rd.	8	Asbestos Cement	130	WW 1970	257	2.78	0.02	0.000
D 1610	Stadite Ct (Bimbwood Gian)	8	Ductile Iron	140	WW 2004	184	2.78	j 0. 02	0.000
P-1010	Stanite Ct. (blichwood Greit)		Orat ima	76	MAN 1885	700	-169.86	0.48	0.180
P-1611	Fairview Ave.	12	Cast IIOn	75	14441 4057	000	000.00	2 55	0.550
P-1612	Ames St.	12	Asbestos Cement	120	VVW 1957	229	-900.00	2.00	0.000
P-1613	West Gien I n	8	Ductile Iron	140	WW 2005	148	-103.77	0.66	0.040
P-1010	Contex the Dd	17	Ashestos Cement	120	WAR 1958	595	367.51	1.04	0.270
P-2000	Centervine Ro.	12	Asocios Cement	120	14/AD 1080	687	1 78	0.01	0 000
P-2001	YMCA Private Line	8	Ducale iron	130	WAR 1909	001		0.00	0.140
P-2002	Centerville Rd.	12	Asbestos Cement	120	WAR 1958	356	337.97	0.90	0.140
D 2002	Contonillo Ort. (Drivate)	12	Ashestos Cement	120	WAR 1958	187	1.76	0.01	0.000
F-2003	Centervine Iso, (I Hvato)	40	Ashertes Comort	120	WAR 1958	908	334.44	0.95	0.350
P-2004	Centerville R0.	12	ASOESIOS CEITIEIR	120	14/40 4000	704	1 76	0.02	0.000
P-2005	Private Line	6	Ductile Iron	130	WAR 1989	/24	1.70	0.02	0.000
P.2006	Centerville Rd	12	Asbestos Cement	120	WAR 1958	1688	330.91	0.94	0.640
2000	Oursen Rd		Acheetos Coment	125	WAR 1960	338	15.87	0.10	0.000
H-2007	Danmore r(a.	_ <u> </u>		400	WAD 1000	1120	7.58	0.09	0.010
P-2008	Douglas Rd.	6	Aspestos Cement	145	11/11/19/00	0000		0.07	0.000
P-2009	Baldwin Rd.	6	Asbestos Cement	125	WAR 1960	655	5.78		0.000
D. 2040	Ditmon Dri	6	Asbestos Cement	125	WAR 1960	1292	1.57	0.02	0.000
	Paleula Del		Acheetne Coment	125	WAR 1960	743	1.07	0.01	0.000
P-2011	Bakowin Ko.		A-L C	4.05	WAD 1000	261	1 76	0.02	0.000
P-2012	Bakwin Rd.	6	Aspestos Cement	120	VIAR 1900		0.40	0.02	0.000
P-2013	Baldwin Rd.	6	Asbestos Cement	125	WAR 1960	124	-2.40	0.03	1 0.000
P.2014	Douglas P4	6	Asbestos Cement	125	WAR 1960	1914	6.55	0.07	1 0.010
1-2014	Douglas Pd	e	Acheetos Cament	125	WAR 1960	288	1.76	0.02	0.000
P-2015	Douglas Kd.		Asbestus Cernent	4.05	MAD 1060	605	3.02	0.03	0.000
P-2016	Douglas Rd.	6	Asbestos Cement	125	WAR 1900		4.00	0.00	0.000
P-2017	Baktwin Rd.	6	Asbestos Cement	125	WAR 1960	683	1.20	0.01	0.000
0 2049	Contonalle Rd	12	Asbestos Cement	120	WAR 1958	505	313.28	0.89	0,170
F-2018			Dustila Ime	140	WAR 2000	173	1.76	0.01	0.000
P-2019	Cedar Pond Dr. (Private)	8			NAD 4050	1241	300 76	0.88	0.420
P-2020	Centerville Rd.	12	Asbestos Cement	120	VVAR 1950	1241	000.10	0.00	0 110
P.2021	Centerville Rd	12	Asbestos Cement	120	WAR 1958	341	306.23	0.67	0.110
F-2021	Undia Dd	0	Achestos Cement	130	WAR 1972	266	- 1.76	0.01	0.000
P-2022	naroig Ko.		Achantes Comon	120	WAR 1058	1722	163.30	0.46	0.180
P-2023	Centerville Rd.	12	Asoesios Cement		10/00 4054	2205	161 54	1 02	1 670
P-2024	Centerville Rd.	8	Asbestos Cement	120	WAR 1954	2305	101.34	1.03	0.400
B-2025	Diamond Hill Rd	8	Ductile Iron	140	WAR 2000	741	98.89	0.63	0.100
r-2025		- <u> </u>	Achaetra Comoni	130	WAR 1980	437	1.76	0.02	0.000
P-2026	Carriage Hill Dr.	<u> </u>			14/48 2000	522	05.36	0.61	0.110
P-2027	Diamond Hill Rd.	8	Ductile Iron	140	WAR 2000	0.02			0.170
D_2029	Lambmont Rd	6	Asbestos Cement	125	WAR 1962	1198	32.45	0.3/	-1-0.1/0
	ttotal		Acheetine Company	125	WAR 1962	459	30.69	0.35	0.060
P-2029	Larchmont Ko.			120	WAD 1077	300	17.52	0.11	0.000
P-2030) Wampum Rd.	8	Aspestos Cement	130	WAX 19//	333	4 70		0.000
D.2024	Hollow Ct	6	Asbestos Cement	130	WAR 1977	371	1./6	0.02	0.000
F -2031	Manager Da		Ashestos Cement	130	WAR 1977	323	13.99	0.09	0.000
P-2032	vvampum Ko.	- _ 2 _	Ashadat Conta	120	WAR 1977	388	10.47	0.07	0.000
I D 2022	Boulder View Dr.	8	Aspestos Cement	130	14/40 4077	202	4 76	0.01	0.000
P-2000			i i i i i i i i i i i i i i i i i i i	1 1 20	1 VVAK 19//	1 383	1 1.70	1 0.01	
P-2033	Boulder View Dr.	8	Aspestos Cement	630					0 1 20
P-2033	4 Boulder View Dr.	<u> </u>	Aspestos Cement Cast iron	75	WAR 1932	456	60.89	0.39	0.130

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- [110000			Discharpo	Vaionthu	Calculated
	Labèl	Description	Diameter (in)	Material	Hazen- Williams C	Notes	Length (ft)	(gpm)	(ft/s)	Headloss (ft)
t t	P-2036	Drum Rock Rd.	8	Cast iron	75	WAR 1932	1029	1.76	0.01	0.000
	P-2038	Duchess St.	8	Ductile Iron	140	WAR 2001	1059	17.85	0.11	0.010
	P-2039	Duchess St.	8	Ductile Iron	140	WAR 2001	192	1.76	0.01	0.000
	P-2040	Irene St.	8	Ductile Iron	140	WAR 2001	546	14.32	0.09	0.000
1	P-2041	Irene St.	8	Ductile Iron	140	WAR 2001	140	1.76	0.01	0.000
	P-2042	Orient St.	8	Ductile Iron	140	WAR 2001	/40	10.79	0.07	0.000
-	P-2043	Diamond Hill Rd.	8	Ductile from	140	WAR 2000	423	47.04	0.24	0.020
	P-2044	Diamond Hill Rd.	8	Ashestes Compat	125	WAR 1961	321	31 11	0.35	0.040
-	P-2045	Juoge St.	<u>0</u>	Asbestos Cement	125	WAR 1962	799	10.69	0.12	0.010
ŀ	P-2040	Vicerov Rd	6	Ashestos Cement	125	WAR 1962	538	8.92	0.10	0.010
-	P-2048	Sayony Dr	6	Asbestos Cement	125	WAR 1962	644	-7.39	0.08	0.010
~ 1	P-2049	Lambmont Rd.	6	Asbestos Cement	125	WAR 1962	306	-18.66	0.21	0.020
ł	P-2051	Boulder View Dr.	8	Asbestos Cement	130	WAR 1977	347	-6.94	0.04	0.000
ŀ	P-2052	Sage Dr.	6	Asbestos Cement	125	WAR 1969	535	1.76	0.02	0.000
	P-2053	Diamond Hill Rd.	8	Ductile Iron	140	WAR 2000	742	14.17	0.09	0.000
	P-2054	Diamond Hill Rd.	8	Ductile Iron	140	WAR 2000	157	17.91	0.11	0.000
- [P-2055	Superior St.	6	Asbestos Cement	125	WAR 1962	460	32.25	0.37	0.060
	P-2056	Saxony Dr.	6	Asbestos Cement	125	WAR 1962	878	-9.01	0.45	0.010
1	P-2057	Superior St.	6	Asbestos Cement	125	WAR 1902	429	-22.32	0.45	0.090
-	P-2058	Viceroy Rd.	6	Aspestos Cement	140	WAR 1902	155	-9.53	0.11	0.000
	P-2059	BISROP Kd.		Ashestos Cament	125	WAR 1962	307	-14.55	0.17	0.010
	P-2000	Vicenv Rd	- 0 	Asbestos Cement	125	WAR 1962	132	60.55	0.69	0.060
ŀ	P-2001	Vicency Rd	6	Asbestos Cement	125	WAR 1962	634	1.76	0.02	0.000
	P-2002	Zinnia St	8	Asbestos Cement	130	WAR 1977	335	57.03	0.36	0.030
	P-2064	Nanci Karen Dr.	8	Asbestos Cement	130	WAR 1977	465	1.76	0.01	0.000
_	P-2065	Nanci Karen Dr.	8	Asbestos Cement	130	WAR 1977	657	22.98	0.15	0.010
	P-2066	Nanci Karen Dr.	8	Asbestos Cement	130	WAR 1977	599	3.53	0.02	0.000
	P-2067	Nanci Karen Dr.	8	Asbestos Cement	130	WAR 1977	285	1.76	0.01	0.000
	P-2068	Zinnia St.	8	Asbestos Cement	130	WAR 1977	529	30.52	0.19	0.020
	P-2069	Birkshire Dr.	8	Asbestos Cement	125	WAR 1904	590	17.60	0.00	0.000
-	P-2070	Quaid Ln.	8	Asbestos Cement	120	WAR 1903	469	18.68	0.12	0.010
	P-2071	Zinnia St.	8	Asbestos Cement	130	WAR 1965	396	23.89	0.15	0.010
	P-2072	Quaid Ln.	- 0	Asbestos Cement	130	WAR 1979	698	1.76	0.01	0.000
	P-2073	Sturbridge Dr.		Ashestos Cement	130	WAR 1979	626	15.15	0.10	0.000
	P-2074	Birkehim Dr	8	Ashestos Cament	125	WAR 1964	1085	2.12	0.01	0.000
~~ .	P-2015	Cowpett Rd	12	Ductile Imn	135	WAR 1998	339	188.98	0.54	0.040
	P-2017	Cowesett Rd	12	Ductile Iron	135	WAR 1998	175	174.87	0.50	0.020
	P-2078	Sturbridge Dr.	1 8	Asbestos Cement	130	WAR 1979	1102	-37.28	0.24	0.050
	P-2079	Cowesett Rd.	12	Ductile Iron	130	WAR 1988	355	210.39	0.60	0.050
_	P-2080	Spinnaker Ln.	8	Ductile Iron	130	WAR 1989	982	1.76	0.01	0.000
	P-2081	Cowesett Rd.	12	Ductile Iron	135	WAR 1998	845	-188.62	0.54	0.090
	P-2082	Cowesett Rd.	12	Ductile Iron	135	WAR 1998	983	-239.67	0.08	0.100
	P-2083	Cowesett Rd.	12	Ductile Iron	135	WAR 1998	169	-237.30	0.73	0.030
	P-2084	Diamond Hill Rd.	8	Ductile Iron	140	WAR 2000	510	176	0.23	0.000
	P-2085	Ginger St.	8	Ductile Iron	140	WAR 2001	206	32.19	0.01	0.010
	P-2086	Diamond Hill Rd.	- 8	Ductile Iron	140	WAR 2000	1510	16.10	0.10	0.010
	P-2087	Uiamond Hifl Rd.	0	Ductile Imp	140	WAR 2001	1077	14.32	0.09	0.010
	P-2088	Mark Allen Dr.	0 R	Ductile Imn	140	WAR 2001	555	1.76	0.01	0.000
	P-2001	Dadino St	8	Ductile Iron	140	WAR 2001	944	5.50	0.04	0.000
	P-2091	Cowesett Rd.	12	Ductile Iron	135	WAR 1998	586	-294.77	0.84	0.140
	P-2093	Jerry St.	6	Ductile Iron	135	WAR 1994	362	1.76	0.02	0.000
	P-2095	Cowesett Rd.	12	Asbestos Cement	125	WAR 1966	1379	-381.53	1.08	0.630
	P-2096	Briarwood Ct.	6	Ductile fron	135	WAR 1992	274	76 40	0.02	0.000
·	P-2097	Sleepy Hollow Farm Dr.	8	Ductile Iron	135	WAR 199/	3100	RQ 12	0.43	0.080
	P-2099	Sleepy Hollow Farm Dr.	8	Ductile Iron	135	WAR 199/	2618	32 18	0.21	0.080
	P-2100	Sleepy Hollow Farm Dr.	- 8_	Ductile iron	130	WAR 1007	239	41.48	0.26	0.010
	P-2101	Sleepy Hollow Farm Dr.	<u> </u>	Ductile Imp	135	WAR 1997	666	25.89	0.17	0.010
	P-2102	Major Dotton Od	12	Ductile fron	135	WAR 1997	439	32.67	0.09	0.000
	P-2103	Hardia Rd. (Privata)	12	Ductile Iron	135	WAR 1997	497	5.29	0.02	0.000
	P-2104	Cowegatt Rd	12	Asbestos Cement	125	WAR 1966	312	-388.59	1.10	0.150
	P-2106	Hardio Rd. (Private)	12	Ductile fron	135	WAR 1997	273	3.53	0.01	0.000
	P-2107	Hardig Rd. (Private)	12	Ductile Iron	135	WAR 1997	1069	1.76	0.01	0.000
	P-2108	Brightwater Dr.	8	PVC	130	WAR 1987	615	1.76	0.01	0.000
	P-2109	Cowesett Green Rd.	8	PVC	130	WAR 1986	362	1./0	0.01	0.000
	P-2110	Hallmark Dr	8	PVC	130	WAR 1987	869	15.97	0.01	0.000
	P-2111	Cowesett Green Rd.		PVC	130	WAR 1980	748	12.34	0.08	0.000
	P-2112	Cowesett Green Rd.	8	PVC	130	WAR 1987	351	1.76	0.01	0.000
	P-2113	Biossom Ct.	8	PVC	130	WAR 1986	354	8.81	0.06	0.000
	P-2114	Cowesett Green Rd.		PVC	130	WAR 1986	971	5.29	0.03	0.000
	P-2115 P-2116	Green Meadow Dr	8	PVC	130	WAR 1987	213	1.76	0.01	0.000
	P_2117	Hantin Rd (Private)	6	Ductile Iron	135	WAR 1997	703	1.76	0.02	0.000
	<u>(* 211/</u>	1 Contrary Contraction								

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i i	1		Diameter		Hazen-			Discharge	Velocity	Friction
	Label	Description	<u>(In)</u>	Material	Williams C	Notes	Length (ft)	(gpm)	(ft/s)	Headloss (ft)
	P-2118	Major Potter Rd.	12	PVC	130	WAR 1988	341	75.70	0.21	0,010
-	P-2119	Larchwood Dr.	12	PVC	130	WAR 1987	481	49.28	0.14	0.000
-	P-2120	Larchwood Dr.	12	PVC	130	WAR 1907	800	45.76	0.13	0.010
-	P-2121	Arrownead way	12	PVC	130	WAR 1987	1186	42.23	0.12	0.010
	P-2122	Pasco Cir	8	PVC	130	WAR 1988	795	1.76	0.01	0.000
	P-2124	Larchwood Dr.	12	PVC	130	WAR 1987	251	38.71	0.11	0.000
- F	P-2125	Michelle Cir.	8	PVC	130	WAR 1988	302	1.76	0.01	0.000
	P-2126	Larchwood Dr.	12	PVC	130	WAR 1987	2338	35.18	0.10	0.010
	P-2127	Macera Cir.	8	PVC	130	WAR 1988	446	1.76	0.01	0.000
	P-2128	Edmond Dr.	8	Asbestos Cement	120	WAR 1954	848	12.34	0.08	0.010
	P-2129	Edmond Dr.	8	Asbestos Cement	120	WAR 1954	238	1.76	0.01	0.000
· -	P-2130	Edmond Dr.	8	Asbestos Cement	120	WAR 1994	516	3.53	0.05	0.000
-	P-2132	Edmond Dr.	6	Asbestos Cement	120	WAR 1954	205	1 76	0.02	0.000
-	P-2133	Coweret Rd	12	Ductile Imn	135	WAR 1998	298	206.86	0.59	0.040
ŀ	P-2134	Cowesett Rd	8	Ductile Iron	. 135	WAR 1998	96	-196.58	1.25	0.080
_ ŀ	P-2136	Cowesatt Rd.	8	Ductile from	135	WAR 1998	79	-196.56	1.25	0.070
F	P-2137	Cowesett Rd.	8	Ductile Iron	135	WAR 1998	100	-194.80	1.24	0.080
F	P-2138	Cowesett Rd.	12	Asbestos Cement	125	WAR 1966	3563	-392.11	1.11	1.710
Ĩ	P-2139	Love i.n.	12	Ductile Iron	135	WAR 1998	1683	8.52	0.02	0.000
	P-2140	Red Chimney Dr.	8	Asbestos Cement	120	WAR 1956	905	-1.76	0.01	0.000
[P-2141	Blue Ridge Rd.	8	Ductile iron	135	WAR 1990	636	12.34	0.08	0.000
	P-2142	Red Chimney Dr.	8	Asbestos Cement	120	WAR 1900	370	13.87	0.07	0.000
Ļ	P-2143	Meeting House Dr.	8	Aspesius Cement	120	WAR 1990	499	1,76	0.01	0.000
ŀ	P-2144	Cobble Hill Rd	8	Ashestos Cement	125	WAR 1960	584	17.63	0.11	0.010
	P-2145	Blue Ridge Rd	8	Ductile Iron	135	WAR 1990	529	8.82	0.06	0.000
	P-2147	Cobble Hill Rd.	8	Asbestos Cement	125	WAR 1960	61	7.05	0.05	0.000
	P-2148	Verdant Ln.	8	Asbestos Cement	130	WAR 1972	645	1.76	0.01	0.000
t	P-2150	Cobble Hill Rd.	8	Asbestos Cement	125	WAR 1960	779	8.81	0.06	0.000
	P-2151	Cobble Hill Rd.	8	Asbestos Cement	125	WAR 1960	277	1.76	0.01	0.000
~	P-2152	Contour Rd.	8	PVC	130	WAR 1968	<u> </u>	5.29	0.03	0.000
1	P-2153	Contour Rd.	8	PVC PVC	130	WAR 1960	230	1.76	0.01	0.000
	P-2154	North Winnisquam Dr.	8	Achectes Compet	130	WAR 1956	373	9.05	0.06	0.000
-	P-2155	Reo Chimney Dr.	8	Ductile Imn	135	WAR 1990	540	5.29	0.03	0.000
	P-2150	Blue Ridge Rd	8	Ductile Iron	135	WAR 1990	146	1.76	0.01	0.000
~	P.2158	Timberine Rd	8	Asbestos Cement	120	WAR 1956	2427	-4.20	0.03	0.000
	P-2159	Red Chimney Dr.	8	Asbestos Cement	120	WAR 1956	811	-6.61	0.04	0.000
	P-2160	Red Chimney Dr.	8	Asbestos Cement	120	WAR 1956	881	-3.25	0.02	0.000
	P-2161	Alanna CL	8	Ductile Iron	135	WAR 1990	564	1.76	0.01	0.000
	P-2162	Alicia Ct.	8	Ductile Iron	135	WAR 1990	480	1.76	0.01	0.000
1	P-2163	Landmark Rd.	8	Asbestos Cement	120	WAR 1956	1429	-5.12	0.03	0.000
	P-2164	Love Ln.	12	Ductile Iron	135	WAR 1998	1220	-7.10	0.02	0.000
	P-2165	Love Ln.	12	Ductive Iron	135	WAD 1066	109	406.22	1.15	0.060
	P-2166	Cowesett Rd.	12	Aspestos Cement	120	WAR 1956	2288	1.76	0.01	0.000
	P-2167	Red Chimney Dr.	8	Ashestos Cament	125	WAR 1961	412	-0.15	0.00	0.000
	P.2100	Red Chimney Dr	8	Asbestos Cement	120	WAR 1956	366	-9.22	0.06	0.000
-	P-2170	Red Chimney Dr.	8	Asbestos Cement	120	WAR 1956	169	2.25	0.01	0.000
	P-2171	Paddock Dr.	8	Asbestos Cement	130	WAR 1980	1270	5.29	0.03	0.000
	P-2172	Red Chimney Dr.	8	Asbestos Cement	120	WAR 1956	271	-4.63	0.03	0.000
	P-2173	Red Chimney Dr.	8	Asbestos Cement	120	WAR 1956	507	3.68	0.02	0.000
	P-2174	Ladderlook Dr.	8	Asbestos Cement	125	WAR 1960	724	1 75	0.00	0.010
	P-2175	Martingale Dr.	- 8-	Aspestos Cement	130	WAR 1960	806	1.76	0.01	0.000
	P-2176	Martingale Dr.	+ 8-	Aspestos Cement	100	WAR 1966	623	-413.27	1.17	0.330
	P-2177	Cowesett Rd.	12	Asbestos Cement	125	WAR 1960	1001	-13.23	0.08	0.010
	P-2178	So. Coodierini Ko.	8	Ductile Iron	135	WAR 1998	454	1.76	0.01	0.000
	P-2190	Cowesett Rd	12	Asbestos Cement	125	WAR 1966	1842	-416.79	1.18	0.990
	P-2181	Cowesett Rd. (Stop & Shop Private Line)	12	Asbestos Cement	125	WAR 1966	206	1.76	0.01	0.000
	P-2182	Cowesett Rd.	12	Asbestos Cement	125	WAR 1966	1077	-420.32	1.19	0.590
	P-2184	Major Potter Rd.	8	PVC	130	WAR 1986	709	83.16	0.53	0.130
	P-2185	Major Potter Rd.	8	PVC	130	WAR 1966	720	39.33	0.23	0.030
	P-2186	Brookline Dr.	8	PVC	130	WAR 1968	1996	42.00	0.27	0.000
	P-2187	Telmore Rd.	12	Asbestos Cement	130	WAR 19/3	6814	1620.61	1.15	1.440
	P-2188	Quaker Ln.	24		130	WAR 1983	56	3.53	0.01	0.000
	P-2189	Major Potter Ko.		Asbestos Cement	125	WAR 1965	291	-12.71	0.08	0.000
	P-2191	Eagle Next Condoc (Private)	12	PVC	130	WAR 1988	229	1.76	0.01	0.000
	P-2192	Stubtoe Dr.	8	Asbestos Cement	125	WAR 1967	707	16.43	0.10	0.010
	P-2194	Winnisquam Dr.	8	Asbestos Cement	125	WAR 1966	433	15.56		0.000
	P-2196	Quaker Ln.	20	Asbestos Cement	125	WAR 1969	1107	775.46	0.79	0.100
	P-2197	Hedge Row Dr.	8	Asbestos Coment	125	WAR 1965	2/0	10.60	0.03	0.000
	P-2198	Old Oak Dr.	8	Asbestos Cement	125	WAR 190/	401	3 20	0.02	0.000
	P-2199	Winnisquam Dr.	8	ASDESTOS CEITIERT	123	1 11/11/10/00				

Г	· · · · · · · · · · · · · · · · · · ·	· · ·						-		Calculated
			Diameter		Hazen-			Discharge	Velocity	Friction
	Labei	Description	(in)	Material	Williams C	Notes	Length (ft)	(gpm)	(ft/s)	Headloss (ft)
F	P-2200	Winnisquam Dr.	8	Asbestos Cement	125	WAR 1966	185	-9.83	0.06	0.000
	P-2201	So. Cobblehill Rd.	8	Aspestos Cement	125	WAR 1960	295	-7.74	0.05	0.000
	P-2202	So. Cobbiehill Rd.	8	Aspestos Cement	125	WAR 1960	213	1.76	0.01	0.000
[P-2203	Old Lyme Dr.	8	Asbestos Cement	125	WAR 1967	570	11.26	0.07	0.000
Ļ	P-2204	Quaker Ln.	24	Asbestos Cement	130	WAR 1980	77	-1622.38	1.15	0.020
ļ.	P-2205	Brookline Dr.	8	PVC	130	WAR 1988	333 eec	11.59	0.07	0.000
	P-2206	Lisa Mane Cir.	8	PVC	130	WAD 1099	802	18.64	0.01	0.000
~	P-2207	Brookline Dr.	<u>0</u>		130	WAR 1990	740	15.04	0.12	0.010
ŀ	P-2208	DIOUNING Dr.	о 8	PVC	130	WAR 1988	481	1.76	0.01	0.000
ŀ	P-2209	Hedgemy Dr	8	Ashestos Cement	125	WAR 1965	169	1.95	0.01	0.000
ŀ	P-2210	Hedgerow Dr.	8	Asbestos Cement	125	WAR 1965	276	-1.57	0.01	0.000
_ [P-2212	Hedgerow Dr.	2	Copper	70	WAR 1965	198	1.76	0.32	0.310
1	P-2213	Stubtoe Dr.	8	Asbestos Cement	125	WAR 1967	461	21.66	0.14	0.010
Γ	P-2214	Stubtoe Dr.	8	Asbestos Cement	125	WAR 1967	550	17.10	0.11	0.010
[P-2215	Winnisquam Dr.	8	Asbestos Cement	125	WAR 1966	321	15.61	0.10	0.000
	P-2216	Winnisquam Dr.	8.	Asbestos Cement	125	WAR 1966	559	16.65	0.11	0.010
— [P-2217	Slient Dr.	8	Asbestos Cement	125	WAR 1966	528	2.79	0.02	0.000
1	P-2218	Castle Rocks Rd.	8	Ductile Iron	135	WAR 1998	/09	2.02	0.05	0.000
	P-2219	Castle Rocks Rd.	8	Ductile Iron	130	10/0 P 1009	77	-3.27	0.01	0.000
	P-2220	Castle Rocks Rd.	8	Ductile Iron	130	WAR 1990	726	0.14	0.00	0.000
ļ	P-2221	Castle Rocks Kd.	<u> </u>	Ductile Iron	135	WAR 1990	1791	-1.50	0.01	0.000
	P-2222	Castle Rocks Rd	8	Ductile Iron	135	WAR 1998	738	0.12	0.00	0.000
	P-2223	Major Potter Rd	12	Ductile Iron	135	WAR 1997	691	56.79	0.16	0.010
. 1	P-2225	Major Potter Rd.	12	PVC	130	WAR 1988	547	42.29	0.12	0.000
1	P-2226	Shadowbrook Dr.	8	PVC	135	WAR 1990	1122	12.74	0.08	0.010
	P-2227	Shadowbrook Dr.	8	PVC	135	WAR 1990	1829	9.22	0.06	0.010
	P-2228	Sandy Brook Ct.	8	PVC	135	WAR 1990	216	1.76	0.01	0.000
	P-2229	Quaker Ln.	24	Asbestos Cement	130	WAR 1980	217	-1624.14	1.15	0.050
	P-2230	Quaker Ln.	8	Asbestos Cement	130	WAR 1980	89	369.94	2.30	0.200
	P-2231	Baid Hill Rd.	24	Asbestos Cement	130	WAR 1964	2930	1 78	1.42	0.000
_	P-2232	Heritage Dr.	8	Asbestos Coment	125	WAR 1904	1226	3.04	0.02	0.000
	P-2233	Gilbert Stuart Dr.	0	Aspesios Cement	125	WAR 1966	417	27.02	0.17	0.010
	P-2235	Hemage Ur.	A A	Asheetne Coment	125	WAR 1964	660	7.54	0.05	0.000
	P-223/	Vanum Dr.	о Я	Asbestos Cement	125	WAR 1964	2218	7.73	0.05	0.010
	P-2230	Vanum Dr	8	Aspestos Cement	125	WAR 1964	2315	-7,79	0.05	0.010
	D.2240	Heritane Dr	8	Aspestos Cement	125	WAR 1966	1416	9.74	0.06	0.010
	P-2241	Heritage Dr.	8	Asbestos Cement	125	WAR 1966	493	6.47	0.04	0.000
	P-2242	Nathanlei Green Dr.	6	Asbestos Cement	125	WAR 1964	910	-1.51	0.02	0.000
	P-2243	Heritage Dr.	8	Asbestos Cement	125	WAR 1966	592	4.70	0.03	0.000
_	P-2244	Quaker Ln.	8	Asbestos Cement	130	WAR 1980	142	368.18	2.35	0.410
_	P-2245	Gilber Stuart Dr.	8	Asbestos Cement	125	WAR 1966	1509	1.86	0.01	0.000
	P-2246	Roetker Dr.	8	Asbestos Cement	125	WAR 1964	701	5.97	0.04	0.000
	P-2247	Gilbert Stuart Dr.	8	Aspestos Cement	125	WAR 1966	750	3.62	0.00	0.000
	P-2248	Gilbert Stuart Dr.	8	Aspestos Cement	125	WAR 1966	019	3.03	0.02	0.000
	P-2249	Valley Brook Dr.	8	Aspestos Cement	130	WAR 1973	410	-1 76	0.01	0,000
	P-2250	Blair Dr.	0	Ashestos Cement	130	WAR 1973	196	1.76	0.01	0.000
	P-2251	Cilbort Street Dr	- <u>o</u> _	Achestos Comont	130	WAR 1973	1517	0.11	0.00	0.000
	P-2252	Gilbert Stuart Dr	8	Ashestos Cement	125	WAR 1966	649	-0.58	0.00	0.000
	P-2253	Gilbert Stuart Dr.	8	Asbestos Cement	125	WAR 1966	1411	-2.34	0.01	0.000
	P-2256	Major Potter Rd.	8	PVC	130	WAR 1986	237	21.95	0.14	0.000
	P-2257	Major Potter Rd.	8	PVC	130	WAR 1986	566	14.26	0.09	0.000
	P-2258	Major Potter Rd.	8	Asbestos Cement	130	WAR 1975	825	18.43	0.12	0.010
	P-2259	Joesph Ct.	8	PVC	130	WAR 1986	2876	5.93	0.04	0.000
_	P-2260	Major Potter Rd.	8	Asbestos Cement	130	WAR 19/3	200	10.49	0.03	0.000
	P-2261	Major Potter Rd.	8	Aspestos Cement	130	M/VK 13/2	736	1.76	0.07	0.000
	P-2262	Indian Hill Rd.	6	Ducite Iron	140	WAR 2000	888	•1.76	0.01	0.000
	P-2263	Governors Ur.	9	Aspectos Comant	130	WAR 1974	1352	159.01	1.01	0.820
	P-2204	Abinail St	6	Ashestos Cement	120	WAR 1953	816	-1.76	0.02	0.000
	P-2200	Welthian Ct	6	Asbestos Cement	120	WAR 1953	421	-1.76	0.02	0.000
	P-2200	Governors Dr.	8	Ductile Iron	140	WAR 2000	524	-5.29	0.03	0.000
	P-2268	Love Ln.	20	Asbestos Cement	125	WAR 1964	832	340.25	0.35	0.030
	P-2269	Benjamin St	6	Asbestos Cement	120	WAR 1951	938	-3.53	0.04	0.000
	P-2270	Hedgerow Dr.	8	Asbestos Cement	125	WAR 1965	702	2.65	0.02	0.000
	P-2271	Hedgerow Dr.	8	Asbestos Cement	125	WAR 1965	524	-0.87	0.01	0.000
	P-2272	Hedgerow Dr.	6	Asbestos Cement	125	WAR 1965	1035	1.70	0.02	0.000
	P-2273	Love Ln.	12	Ductile Iron	135	WAD 1057	221	-3.53	0.01	0.000
	P-2274	Love Ln.	12	Aspestos Cement	120	WAR 1067	772	1.76	0.01	0.000
	P-2276	Gilbane St.	8	Aspesios Cement	90	WAR 1928	399	-160.57	0.46	0.070
	P-2278	I Orgate Kd.	14	Ductile Imn	135	WAR 1994	417	1.76	0.01	0.000
	P-22/9	Children Lin.	8	Asbestos Cement	130	WAR 1974	677	157.25	1.00	0.400
	P-2281	Gauvin Dr.	8	Asbestos Cement	125	WAR 1967	935	19.39	0.12	0.010

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[Description	Diameter	Majodel	Hazen- Williams C	Notes	Length (#)	Discharge (gpm)	Velocity	Calculated Friction Headloss (ft)
		Uescription	- <u></u>	Aphometer Compet	125	WAR 1067	788	1 76	0.01	0,000
⊢	P-2282	Hish's Lū.	8	Asbestos Cemeril	125	WAR 1907	860	1.76	0.07	0.000
-	P-2283	Tanner Ave.	0	Asbestos Cement	120	WAR 1952	757	1 76	0.02	0.000
- 1	P-2284	Tanner Ave.	- P	Aspestos Cement	120	WAR 1952	457	15.87	0.02	0.000
	P-2285	Gauvin Dr.	8	Aspestos Cement	120	WAR 1907	912	3.53	0.04	0.000
	P-2286	Gilbert St.	6	Aspestos Cement	120	WAR 1904	014	3.33	0.04	0.000
	P-2287	Flagg Ave.	6	Asbestos Cement	125	WAR 1904	4137	0.76	0.02	0.000
_	P-2288	Gilbert St.	6	Asbestos Cement	125	VVAR 1904	604	1.02	0.01	0.000
~~ L	P-2289	Sutter Ave.	6	Asbestos Cement	125	WAR 1964	094	10.50	0.01	0.000
	P-2290	Gilbert St.	6	Asbestos Cement	120	WAR 1952	323	10.56	0.02	0.010
	P-2291	Gilbert St.	6	Asbestos Cement	125	WAR 1964	312	7.05	0.06	0.000
	P-2292	Founder Ave.	6	Asbestos Cement	120	WAR 1952	886	-1.76	0.02	0.000
	P-2293	Gilbert St.	6	Asbestos Cement	120	WAR 1952	496	19.39	0.22	0.030
- [P-2294	Gilbert St.	6	Asbestos Cement	120	WAR 1952	313	15.8/	0.18	0.010
	P-2295	Winman Ct.	8	Ductile Iron	135	WAR 1994	796	1.76	0.01	0.000
	P-2296	Commonwealth Ave.	10	Cast iron	80	WAR 1928	1204	-58.54	0.24	0.100
F	P-2298	Toligate Rd.	10	Cast iron	70	WAR 1928	6250	224.23	0.92	7.600
	P-2299	Commonwealth Ave.	8	Asbestos Cement	120	WAR 1959	1448	141.17	0.90	0.820
	P-2300	Gauvin Dr.	8	Asbestos Cement	125	WAR 1967	498	8.01	0.05	0.000
	P-2301	Whitehall Dr.	8	Asbestos Cement	125	WAR 1965	380	45.83	0.29	0.020
- F	P-2302	Whitehall Dr.	8	Asbestos Cement	125	WAR 1965	234	1.76	0.01	0.000
-	P-2303	Cindy I n	8	Asbestos Cement	125	WAR 1965	1211	42.30	0.27	0.070
ŀ	P_7304	Cindy1n	6	Asbestos Cement	125	WAR 1965	406	1.76	0.02	0.000
ł	D_2204	Gausio Dr	Å	Asbestos Cement	125	WAR 1967	420	1.76	0.01	0.000
—	P-2000			Ashestos Cement	120	WAR 1955	1862	38.78	0.44	0.390
ŀ	F-2307		9	Achestre Cement	120	WAR 1959	734	93.58	0.60	0.190
-	P-2308	Tollando Del	12	Castimn	90	WAR 1928	714	-148.24	0.42	0.100
ŀ	P-2310	Tongate Ko.		Achectos Comast	125	WAR 1968	1270	6 10	0.04	0.000
I	P-2311	Country View Dr.	<u>ō</u>	Asbedos Comest	120	WAR 1072	RAA	4 48	0.03	0.000
[P-2312	Ledgemont Dr.	8	Aspestos Cement	130	WAR 1005	810	31.78	0.00	0.020
1	P-2313	Commonwealth Ave.	8	Ductile Iron	135	WAR 1995	410	176	0.01	0.000
	P-2314	Commonwealth Ave.	8	Ductile from	135	WAR 1995	410	60.04	0.01	0.000
	P-2315	Leon Whipple Rd.	8	Ductile Iron	135	WAR 1995	503	70.04	0.30	0.000
[P-2316	Leon Whipple Rd.	8	Ductile Iron	135	WAR 1995	001	79.40	0.51	0.140
_ 1	P-2317	Nicolas Ln.	8	Ductile Iron	135	WAR 1995	507	28.25	0.10	0.010
	P-2318	Nicolas Ln.	8	Ductile Iron	135	WAR 1995	333	24.73	0.10	0.010
	P-2319	Remy Cir	8	Ductile Iron	135	WAR 1995	479	-1.76	0.01	0.000
1	P-2320	Nicolas Ln.	8	Ductile Iron	135	WAR 1995	376	21.20	0.14	0.010
1	P-2321	Natalie Ln.	8	Ductile fron	135	WAR 1995	218	-1.76	0.01	0.000
	P-2322	Country View Dr.	8	Asbestos Cement	125	WAR 1968	1613	8.82	0.06	0.000
~	P-2323	Tolloate Rd.	12	Cast iron	90	WAR 1928	851	-146.18	0.41	0.120
	P.2324	Hilary St	6	Asbestos Cement	130	WAR 1973	265	1.76	0.02	0.000
	P-2326	Forbes St	6	Asbestos Cement	130	WAR 1973	333	1.76	0.02	0.000
	P-2320	Tolloate Bd	12	Cast iron	90	WAR 1928	1674	-137.36	0.39	0.210
	F-2321	Toligate Rd	12	Castimn	90	WAR 1928	518	-142.65	0.40	0.070
	P-2320	Valo St	6	Ashestos Cement	130	WAR 1973	262	-3.53	0.04	0.000
	P-2329		16	Ouctile Imn	140	WAR 2001	695	90.75	0.14	0.000
1	P-2330			Achestos Cement	115	WAR 1948	1221	12.74	0.14	0.040
	P-2331			Asbestos Coment	130	WAR 1972	633	1.76	0.01	0.000
	P-2332	Downing Lh.		Asbestus Comont	125	WAR 1968	608	5.29	0.03	0.000
	P-2333	Country View Dr.	- <u>8</u>	Aspestos Cement	146	WAR 1946	712	7.53	0.09	0.010
	P-2334	Patterson Ave.	6	Aspestos Cement	115	14/412 1009	1171	102.29	0.29	0.040
	P-2335	Cowesett Rd.	12		135	WAR 1990	200	02.23	0.20	0.010
	P-2336	Cowesett Rd.		Ductile Iron	135	VVAR 1990	209	4 72	0.01	0.000
	P-2337	Tivoli Ct.	8	Ductile Iron	130	VVAR 1988	100	75 05	0.01	0.000
	P-2338	Love Ln.	16	Ductile Iron	140	WAR 2001	4/9	10.43	0.12	0.000
	P-2339	Country View Dr.	8	Asbestos Cement	125	WAR 1968	990	1.76	0.01	0.000
	P-2340	Patterson Ave.	6	Asbestos Cement	115	WAR 1946	460	-3.44	0.04	0.000
	P-2341	Patterson Ave.	6	Asbestos Cement	115	WAR 1946	447	-0.08	0.00	0.000
	P-2342	Highland Ave.	8	Cast iron	75	WAR 1936	911	-19.70	0.13	0.030
	P-2343	Love Ln.	16	Ductile Iron	140	WAR 2001	482	-74.48	0.12	0.000
·	P.2344	Bruce Ln.	6	Asbestos Cement	115	WAR 1946	571	1.76	0.02	0.000
	P-2345	Highland Ave.	8	Cast iron	75	WAR 1936	1509	17.85	0.11	0.040
	P-2246	Highland Ave	8	Asbestos Cement	120	WAR 1953	1348	14.33	0.09	0.010
	P-2347	Post Rd	16	Ductile iron	135	WAR 1999	803	28.09	0.04	0.000
	D 2240	letand View Or	8	Asbestos Cement	130	WAR 1975	285	5.29	0.03	0.000
—	F-2040	island View Dr.	- <u> </u>	Ashestos Cement	130	WAR 1975	452	1.76	0.01	0.000
	P-2349	Cas Departs 1		Asbestos Cement	130	WAR 1975	210	1.76	0.02	0.000
	P-2350	Dea Dreeze Lil.		Conner	70	WAR 1964	573	1.76	0.32	0.910
	H-2351	Day Vista Pi.	1 10	Ductile Iron	135	WAR 1999	192	21.04	0.03	0.000
	P-2352	Post Rd.		Ductile imp	135	WAR 1999	811	15.75	0.03	0.000
	P-2353	Post Rd.			120	WAR 1073	277	1.76	0.02	0.000
	P-2354	Valentine Cir.	6	Aspestos Cement	126	WAR 1909	552	104.53	0.30	0.020
	P-2355	Cowesett Rd.	12		498	WAR 100A	448	79 74	0.23	0.010
	P-2356	Cowesett Rd.	12		361	WAD 1009	792	72.69	0.21	0.010
	P-2357	Cowesett Rd.	12		130	WAD 1080	758	1 76	0.02	0.000
	P-2358	Stiness Dr.	6		130	WAD 1000	733	5.29	0.06	0.020
	P-2359	Valentine Cir.	6	Cast iron	45	JA/AD 1072	871	1 76	0.02	0.000
	P-2360	Valentine Cir.	6	Asbestos Cement	130	14/4D 1020	\$75	1 76	0.32	1.390
	P-2361	Stiness Dr.	2	Copper		WAR 1930	746	2 82	0.04	0.000
	P-2362	Masthead Dr.	6	Aspestos L'ement	1 120	1 17/15 1807				

1.ebal	Description	Diameter	Material	Hazen-	Notes	Length (#)	Discharge (gpm)	Velocity (ft/s)	Calculated Friction Headloss (#)
	East United March	<u>_</u>	DVC	130	WAR 1982	886	1 76	0.02	0.000
P-2363	Pred Humiak way	16	PVC Ductile Imp	135	WAR 1992	1680	15.52	0.02	0.000
P-2304	Post Rd.	16	Ductile imn	135	WAR 1999	1224	-5.55	0.01	0.000
P-2303	Post Rd.	16	Ductile Imn	135	WAR 1999	802	-12.60	0.02	0.000
P-2300	Post Rd	10	Ductile Iron	135	WAR 1999	159	-28.14	0.04	0.000
P-230/	Post No.	16	Ductile Iron	135	WAR 1999	158	-29.90	0.05	0.000
F-2300	Post Rd.	16	Ductile Iron	135	WAR 1999	169	-31.22	0.05	0.000
P-2-709	Port Pd	16	Ductile imn	135	WAR 1999	946	-42.13	0.07	0.000
P-2370	Post Rd.		Ductile imp	135	WAR 1999	1161	29.33	0.05	0.000
P-2371	Post Ro.	10	Ductile Iron	135	WAR 1999	358	-40 19	0.06	0.000
P-23/2	Post Rd.	10	Ductile Iron	135	WAR 1999	311	-43 43	0.07	0.000
P-2373	Post Rd.		Ductile Iron	135	WAR 1999	369	-47.04	0.08	0.000
P-2374	Post Rd.	10	Ductile Imp	135	WAR 1000	424	-48.80	0.08	0.000
P-2375	Post Rd.	10	Ducule Iron	135	WAR 1000	590	-53.91	0.09	0.000
P-2376	Post Rd.	16	Ductile Iron	135	WAR 1999	1202	53.07	0.05	0.000
P-2377	Love Ln.	10	Ducase fron	140	WAR 2001	477	36.42	0.00	0.030
P-2378	Windermere Way	8	Aspestos Coment	110	WAR 1939	964	16.64	0.11	0.030
P-2380	Windermere Way	8	Asbestos Cement	110	WAR 1939	004	0.90	0.11	0.010
P-2381	Crestwood Rd.	6	Asbestos Cement	110	WAR 1939	1005	-9.30	0.11	0.020
P-2382	Lantem Ln.	6	Asbestos Cement	115	WAR 1946	251	-3.04	0.03	0.000
P-2383	Crestwood Rd.	6	Asbestos Cement	110	WAR 1939	999	-8.03	0.09	0.010
P-2384	Crestwood Rd.	8	Asbestos Cement	110	WAR 1939	595	24.08	0,15	0.010
P-2385	Crestwood Rd.	8	Asbestos Cement	110	WAR 1939	427	16.31	0.10	0.010
P-2386	Crestwood Rd.	8	Asbestos Cement	110	WAR 1939	257	15.26	0.10	0.000
P-2387	Crestwood Rd.	8	Asbestos Cement	110	WAR 1939	1067	6.76	0.04	0.000
P-2388	Dexterdale Dr.	8	Asbestos Cement	110	WAR 1939	250	11.74	0.07	0.000
P-2389	Dextentale Dr	8	Asbestos Cement	115	WAR 1940	1166	-6.74	0.04	0.000
P-2300	Creston Way	6	Asbestos Cement	110	WAR 1939	638	-0.72	0.01	0.000
P-2350	Westebaster Way		Ashestos Cement	125	WAR 1966	373	-2.48	0.03	0.000
D 2202	Mostobostor May	6	Ashestos Cement	125	WAR 1966	759	-6.01	0.07	0.000
P-2392		- 2	Conner	70	WAR 1955	211	1.76	0.32	0.340
P-2393	Chevy Ct.		Соррен	70	WAR 1956	223	-1 76	0.46	0.860
P-2394	Joyce Glen		Ductile Imp	135	WAR 1006	338	-2.05	0.01	0.000
P-2396	Chace St.	8	Ductile inte	130	MAR 1980	267	1 76	0.01	0.000
P-2397	Chace St.	8	Ductile Iron	130	WAR 1907	207	-5.57	0.04	0.000
P-2398	Venus Dr.	8	Ductile Iron	130	WAR 1907	505	-0.10	0.04	0.000
P-2399	Venus Dr.	8	Ductile Iron	130	WAR 1907	300	1 76	0.00	0.000
P-2400	Hesper Dr.	8	Ductile Iron	130	WAR 1987	121	1.70	0.01	0.000
P-2401	Williams St.	4	Cast iron	30	WAR 1890	4/0	1.04	0.03	0.030
P-2402	Williams St.	4	Cast iron	30	WAR 1890	329	1.20	0.03	0.010
P-2403	Biackmore St.	4	Cast iron	30	WAR 1890	766	-0.57	0.01	0.010
P-2404	Ladd St.	4	Cast iron	30	WAR 1890	281	-2.33	0.06	0.030
P-2405	Ladd St.	4	Cast iron	30	WAR 1890	45	2.26	0.06	0.000
P-2406	Duane St.	4	Cast iron	30	WAR 1890	773	1.12	0.03	0.020
P-2407	Duane St.	8	Asbestos Cement	130	WAR 1972	611	-6.35	0.04	0.000
P-2408	Duane St.	4	Cast iron	30	WAR 1890	587	-0.62	0.02	0.010
P-2409	Ladd St.	4	Cast iron	30	WAR 1890	330	3.53	0.09	0.080
P.2410	North Marthomuch St.	4	Cast iron	30	WAR 1890	195	1.76	0.05	0.010
P-2410	Hall St	4	Cast iron	30	WAR 1890	513	1.94	0.05	0.040
P 9419	Amold Ave		Cast imn	30	WAR 1890	429	0.18	0.00	0.000
P-2412	Histopist Dr.		Achestos Cement	120	WAR 1954	863	3.53	0.04	0.000
P-2414			Acheetne Cament	120	WAR 1954	573	1.76	0.02	0.000
P-2415		0	Cart imm	45	WAR 1930	819	1.76	0.02	0.000
P-2416	Goodwin St.			175	WAR 1075	1307	1 76	0.02	0.000
P-2417	Wolverstone Rd.	6		120	WAR 1000	706	1 76	0.05	0.030
P-2418	Meadow St.	4	Cast iron	40	WAR 1920	172	173.20	0.00	0.050
P-2419	Centerville Rd.			70	WAR 1920	670	171 54	0.49	0.180
P-2420	CentervilleRd.	12	Cast iron	10	WAR 1920	2242	- 24 97	0.4	0.000
P-2422	Post Rd.	16	Uuctile Iron	135	WAR 1999	4750	16 20	0.04	0.000
P-2423	Arnolds Neck Dr.	8	Ductile Iron	135	WAR 1993	1/39	1 43	0.10	0.010
P-2424	Harrop Ave.	8	Asbestos Cement	115	WAK 1946	85/	-1.43	0.01	0.000
P-2425	Quaker Ln. (Private)	8	Asbestos Cement	130	WAR 1978	2/4	1./0	0.01	0.000
P-2426	Beacon Hill Dr.	8	Asbestos Cement	130	WAR 1975	493	1.76	0.01	1 100
P-2427	Centerville Rd.	12	Asbestos Cement	120	WAR 1958	2553	369.27	1.05	
P-2428	Gilbane St.	8	Asbestos Cement	125	WAR 1967	1442	12.34	0.08	0.010
P-2429	New England Way	8	Asbestos Cement	125	WAR 1967	586	8.81	0.08	0.000
P-2430	New England Way	8	Asbestos Cement	125	WAR 1967	512	1.76	0.01	0.000
P-2431	Wilcar St.	6	Asbestos Cement	130	WAR 1971	452	5.29	0.06	0.000
P-2412	Wilcar St.	6	Asbestos Cement	130	WAR 1971	163	1.76	0.02	0.000
P-2433	Dawn Ln.	- 6	Asbestos Cement	130	WAR 1971	556	1.76	0.02	0.000
P-2424	Alger Ave	8	Cast iron	60	WAR 1890	352	9.15	0.06	0.000
D 2426		8	Cast iron	60	WAR 1890	985	1.76	0.01	0.000
0 2/27	Oak Group St	A	Ductile Iron	130	WAR 1984	428	5.62	0.04	0.000
P-243/	John Minkee Ave		Ductile Iron	130	WAR 1988	525	1.76	0.02	0.000
P-2438	Oak Come St	R	Ducilie Iron	130	WAR 1984	286	2.09	0.01	0.000
P-2439		<u>a</u>	Ductile Imn	130	WAR 1984	758	-12.01	0.08	0.000
P-2440		<u> </u>	Custile Imo	130	WAR 1984	163	12.34	0.08	0.000
P-2441	Oak Grove St.		Destile Inte	120	WAR 1984	89	2.80	0.02	0.000
P-2442	Oak Grove St.	ŏ		30	WAR 1890	512	1.03	0.03	0.010
P-2443	Elisha St.	4		448	WAR 1049	004	7.78	0.05	0.000
P-2444	Physical Blue St	8	ASDESIOS CEITIER	_1 _115	1 44/47 1040	00-1			

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Label	Description	Diameter (in)	Material	Hazen- Williams C	Notes	Length (ft)	Discharge (gpm)	Velocity (ft/s)	Friction Headloss (ft)
P-2445	Herbert St	4	Cast iron	30	WAR 1889	755	-0.73	0.02	0.010
P-2446	Herbert St	8	Ductile Iron	135	WAR 1992	244	5.29	0.03	0.000
P-2447	Herbert St	2	Galvanized iron	30	WAR 1895	340	1.76	0.18	0,640
P-2449	Post Rd	16	Ductile Iron	135	WAR 1999	116	-10.84	0.02	0.000
P-2450	Garnet St	8	Ductile Imn	135	WAR 1992	478	1.76	0.01	0.000
P 2452	Cowaratt Pd	12	Ductile Imn	135	WAR 1998	154	101.01	0.29	0.010
P-2402	Libizous L p	8	Ductile Iron	135	WAR 1996	486	19.50	0.12	0.010
P-2400	Passus Lit		Ductile Imp	135	MAP 1006	265	1 76	0.01	0.000
P-2454	Poppy Pl.		Ducule non	135	WAR 1006	663	15.98	0.01	0.010
P-2455	HIDISCUS LO.		Ducule Iron	130	WAD 1057	204	7 16	0.08	0.000
P-2457	Ashmont St.	6	Aspestos Cement	120	VIAR 1907	1100	94.01	0.00	0.000
P-2458	Post Rd.	16	Ductile Iron	135	VVAR 1999	1100	4.51	0.14	0.010
P-2459	Rice St.	6	Ductile Iron	135	WAR 1992	013	1.70	0.02	0.000
P-2460	Post Rd.	16	Ductile Iron	135	WAR 1999	303	90.31	0.14	0.000
P-2461	Shenandoah Rd.	8	Ductile Iron	140	WAR 2001	1599	17.63	0.11	0.010
P-2462	Bokar St.	8	Ductile Iron	140	WAR 2001	304	7.05	0.05	0.000
P-2463	Friar Tuck Rd.	8	Ductile Iron	140	WAR 2001	62	3.15	0.02	0.000
P-2464	Friar Tuck Rd.	8	Ductile Iron	140	WAR 2001	134	2.14	0.01	0.000
P-2465	Friar Tuck Rd.	8	Ductile Iron	140	WAR 2001	409	1.76	0.01	0.000
P-2466	Rip Van Winkle Cir.	8	Ductile Iron	140	WAR 2001	1014	0.37	0.00	0.000
P-2467	Shenandoah Rd	8	Ductie Iron	140	WAR 2001	1427	1.76	0.01	0.000
P-2469	Rober St	 R	Ductile Iron	140	WAR 2001	334	7.05	0.05	0.000
D 2400	Cumbedeed Dd	0	Ductile Imn	140	WAR 2001	260	1.76	0.01	0.000
r-2409	Cumpenano Ko.		Ductile Imp	140	WAR 2001	1404	1.76	0.01	0.000
P-24/U	Cumpertand Kd.	<u> </u>	Ductile Iron	140	WAR 2001	720	1 76	0.01	0.000
P-2471	Bokar SL	8		196	W/AD 1000	640	70.02	0 11	0.000
P-2472	Post Rd.	16	Ducue Iron	135	WAR 1999	<u>040</u>	1 76	0.02	0.000
P-2473	Reeland Ave.	6	Aspestos Cement	125	WAR 1900	00/	67.20	0.02	0.000
P-2474	Post Rd.	16	Ductile Iron	135	VVAR 1999	315	01.39	0.02	0.000
P-2475	Calhoun Ave.	6	Ductile Iron	135	WAR 1994	282	5.29	0.00	0.000
P-2476	Glass St.	6	Ductile Iron	135	WAR 1994	286	1.76	0.02	0.000
P-2477	Cathoun Ave.	6	Ductile tron	135	WAR 1994	275	1.76	0.02	0.000
P-2478	Post Rd.	16	Ductile Iron	135	WAR 1999	414	60.34	0.10	0.000
P-2479	Civde Ave.	6	Asbestos Cement	125	WAR 1967	323	1.76	0.02	0.000
P-2480	Post Rd.	16	Ductile Iron	135	WAR 1999	141	23.78	0.04	0.000
P-2482	Post Rd	16	Ductile fron	135	WAR 1999	385	-16,39	0.03	0.000
0.2492	Matteron Ave	8	Cast iron	75	WAR 1933	333	6.71	0.04	0.000
0.2494	Contennial St		Ashestos Cement	115	WAR 1942	299	5.29	0.06	0.000
P-2404	Mahar Ave	e	Ashestos Cement	115	WAR 1942	380	1.76	0.02	0.000
P-2465			Asbestos Cement	115	WAR 1942	304	1.76	0.02	0.000
P-2480	Centennial St.		Card imp	75	WAR 1033	598	77.57	0.22	0.040
P-2487	Greenwich Ave.	12	Durdia loan	125	W/AR 1008	416	1 76	0.01	0.000
P-2488	Great Oak Dr.	8	Ducate from	130	WAR 1000	825	74.05	0.21	0.050
P-2489	Greenwich Ave.	12	Cast iron	/3	WAR 1955	400	5 20	0.06	0.000
P-2490	Carson Ave.	6	Asbestos Cement	130	WAR 1972	400	1.28	0.00	0.000
P-2491	Carson Ave.	6	Asbestos Cement	130	WAR 1972	180	1.70	0.02	0.000
P-2492	Pond View Dr.	6	Asbestos Cement	130	WAR 1972	607	1./6	0.02	0.000
P-2493	Rutherford Ave.	6	Asbestos Cement	120	WAR 1950	364	13.64	0.15	0.010
P-2494	Rutherford Ave.	6	Asbestos Cement	120	WAR 1950	346	10.05	0.11	0.010
P-2495	Montgomery St.	6	Asbestos Cement	120	WAR 1952	1136	5.82	0.07	0.010
P-2496	Blue Hill Dr	6	Asbestos Cement	120	WAR 1954	298	1.76	0.02	0.000
P-2407	Bine Hill Dr	6	Asbestos Cement	120	WAR 1954	335	2.29	0.03	0.000
D_2/08	Cauarlu St	A	Asbestos Cement	120	WAR 1955	529	-1.30	0.01	0.000
D 2400	Caterin Aug		Asbestos Cement	120	WAR 1955	336	2.37	0.03	0.000
P-2499			Achoeice Comont	120	WAR 1954	537	0.61	0.01	0.000
P-2500	Cardinal St.	0	Ashertos Coment	120	WAD 1064	315	1.83	0.02	0.000
P-2501	Blue Hill Dr.	0	Aspesius Cement	120	WAD 1064	336	0.67	0.01	0.000
P-2502	Blue Hill Dr.		Aspestos Cement	120	WAD 1050	1127	1.1.09	0.01	0.000
P-2503	Plantation St.	<u></u>	Aspesios Cement	120	WAD 1050	EEE	1 76	0.02	0.000
P-2504	Vancouver Ave.	6	Asbestos Cement	120	WAR 1950	500	E 43	0.02	0.000
P-2505	Irondale St.	6	Asbestos Cement	120	WAR 1954	0/8	-0.43	0.00	0.000
P-2506	Lancaster Ave.	6	Asbestos Cement	120	WAR 1950	336	-1.20	0.00	0.000
P-2507	Montgomery St.	6	Asbestos Cement	120	WAR 1952	329	-2.47	0.03	0.000
P-2508	Lancaster Ave.	6	Asbestos Cement	120	WAR 1950	779	-6.49	0.07	0.010
P-2509	Scarsdale St.	6	Asbestos Cement	120	WAR 1952	556	1.83	0.02	0.000
P-2510	Scarsdale St.	6	Asbestos Cement	120	WAR 1952	491	2.78	0.03	0.000
P-2511	Vancouver Ave	6	Asbestos Cement	120	WAR 1950	587	9.91	0.11	0.010
D.2512	Andruar Aug	ă l	Asbestos Cement	125	WAR 1962	595	4.66	0.05	0.000
P 2542	Allotheridae Aug		Ashestos Cement	125	WAR 1962	617	1.76	0.01	0.000
P-2013	NOIDDIDGB AVE.		Achestos Coment	125	WAR 1962	1169	1.13	0.01	0.000
P-2514	Normbridge Ave.		Acheeter Comert	120	WAR 1950	976	-3.49	0.04	0.000
P-2515	Vancouver Ave.		Aspesios Cement	120	WAD 1050	401	_8.8Q	0.10	0.010
P-2516	Vancouver Ave.	6	Aspestos Cement	- 120	14/AD 4050	502		0.00	0.000
P-2517	Chapel St.	6	Asbestos Cement	- 120	WAR 1950	202	0.10	0.00	0.000
P-2518	Lancaster Ave.	6	Asbestos Cement	120	WAR 1950		9.20	0.10	0.000
P-2519	Vancouver Ave.	6	Asbestos Cement	120	WAR 1950		-10.49	- 0.12	0.010
P-2520	Vancouver Ave.	6	Asbestos Cement	120	WAR 1950		-10.37	0.12	0.010
P-2521	Greenwich Ave.	12	Cast Iron	75	WAR 1933	644	-28.00	0.08	0.010
P-2522	[annaster Ave	6	Asbestos Cement	120	WAR 1950	359	14.77	0.17	0.010
D 2522	Barver St	6	Asbestos Cement	120	WAR 1950	615	1.89	0.02	0.000
P-2023	Langerter Aut	A I	Aspestos Cement	120	WAR 1950	329	11.12	0.13	0.010
r-2024			Ductile imn	130	WAR 1988	646	1.76	0.02	0.000
P-2525	preana Ln.	L							· · ·

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Labert	Description	Diameter	Material	Hazen-	Natos	Length (#)	Discharge (com)	Velocity (ft/s)	Calculated Friction Headloss (ft)
	Companyiah Aug	12	Costiron	75	WAR 1033	380	-46.30	0.13	0.010
P-2520	Greenwich Ave.	12	Castinon	75	WAR 1933	290	-49.82	0.14	0.010
P-2527	Greenwich Ave.	9	Aebector Compart	130	WAR 1978	674	176	0.01	0.000
P-2020	Gradewich Ave	12	Cartimo	75	WAR 1933	422	15.87	0.05	0.000
P-2029	Themet Ave.	2	Cooper	70	WAR 1940	809	1.76	0.18	0.320
P-2000	Creativity Ave.	12	Castimn	75	WAR 1933	386	12.34	0.04	0.000
P-2031	Old East Ave	- 12 E		120	WAR 1957	348	8.82	0.10	0.000
P-2532	Old East Ave.		Astestos Cement	70	WAR 1057	321	1 76	0.46	1 240
P-2533		1	Lopper	100	14/AD 1057	322	5.20	0.40	0.000
P-2534	Old East Ave.	- 0	Aspestos Cement	120	WAR 1957	316	1.76	0.00	1 220
P-2535	Ironwood Ct.		Copper	100	MAR 1937	160	1.76	0.02	0.000
P-2536	Old East Ave.	- 0	Aspestos Cement	120	WAR 1937	671	1.76	0.02	0.000
P-2537	Greenwich Ave.	12		75	VVAR 1933	1702	51 40	0.01	0.000
P-2538	Commonwealth Ave.	10	Cast iron	70	WAR 1920	401	5 145	0.03	0.000
P-2539	Kearsage Dr.	8	Asbestos Cement	125	VVAR 1903	401	1.25	0.03	0.000
P-2540	Kearsage Dr.	8	Aspestos Cement	125	VVAR 1903	711	1.70	0.01	0.000
P-2541	Brian Dr.	8	Asbestos Cement	125	VVAR 1904	0708	17.00	0.01	0.000
P-2542	Commonwealth Ave.	10	Cast iron	80	WAR 1928	2/30	-4/.90	0.20	0.150
P-2543	College Hill Rd.	6	PVC	130	WAR 1985	431	1.75	0.02	0.000 1
P-2544	East Ave.	10	Cast iron	80	WAR 1928	299	46.20	0.19	0.020
P-2545	Tillinghast Ave.	6	Ductile Iron	135	WAR 1995	794	5.29	0.06	0.000
P-2546	Blade St.	6	Cast iron	40	WAR 1928	1731	0.59	0.01	0.000
P-2547	Tillinghast Ave.	6	Ductile Iron	135	WAR 1995	669	2.94	0.03	0.000
P-2548	Tillinghast Ave.	6	Ductile Iron	140	WAR 2003	992	1.17	0.01	0.000
P-2549	East Ave.	10	Cast iron	70	WAR 1928	255	39.15	0.16	0.010
P-2550	Baker St.	6	Cast iron	40	WAR 1928	571	6.06	0.07	0.030
P-2551	Burton St.	6	Asbestos Cement	140	WAR 1979	455	1.76	0.02	0.000
P-2552	Baker St.	6	Cast iron	40	WAR 1928	605	2.53	0.03	0.010
P-2553	Rossi St.	4	Cast iron	40	WAR 1928	428	0.77	0.02	0.000
P-2554	Pontiac St	6	Cast iron	40	WAR 1928	810	-2.76	0.03	0.010
P-2555	Pontiac St	6	Cast iron	40	WAR 1928	305	-6.53	0.07	0.020
P-2556	East Ave	10	Cast iron	80	WAR 1928	455	-31.33	0.13	0.010
P-2550	Pontiac St	6	Cast iron	40	WAR 1928	356	1.76	0.02	0.000
P-2007	Tonuac St.		Cast imn	40	WAR 1928	418	2.01	0.02	0.000
P-2008	west Format SL		Castimo	40	WAR 1928	247	0.24	0.00	0.000
P-2559	Army St.		Cactimo	40	WAR 1928	667	-1.52	0.04	0.020
P-2560	Ranroad Kow	4	Castimp	80	WAR 1028	123	23.04	0.09	0.000
P-2561	East Ave.	10	Castinon	00	WAR 1020	1402	19.75	0.08	0.010
P-2562	East Ave.	10	Cast from	40	WAD 1028	167	-3.15	0.04	0.000
P-2563	O'Donnell Ave.	6	Cast ron	40	VVAR 1920	207	14.10	0.04	0.000
P-2564	O'Donnell Ave.	6	Cast iron	40	WAR 1928	30/	14,10	0.10	0.000
P-2565	Adelaide Ave.	6	Cast iron	40	WAR 1928	344	2.60	0.03	0.000
P-2567	Adelaide Ave.	6	Cast iron	40	WAR 1928	855	1.06	0.01	0.000
P-2568	Dongay Ave.	6	Asbestos Cement	130	WAR 1972	394	9.49	0.11	0.010
P-2569	Levesque St.	8	Asbestos Cement	130	WAR 1972	412	5.78	0.04	0.000
P-2570	Jambray Ave.	6	Asbestos Cement	130	WAR 1972	407	1.76	0.02	0.000
P-2571	Levesque St.	6	Asbestos Cement	130	WAR 1972	1252	1.95	0.02	0.000
P-2572	Adelaide Ave.	6	Asbestos Cement	130	WAR 1972	249	-0.49	0.01	0.000
P-2573	Jambray Ave.	8	Asbestos Cement	130	WAR 1972	1460	-2.26	0.01	0.000
P-2574	Hill Top Dr.	6	Asbestos Cement	115	WAR 1948	414	3.53	0.04	0.000
P-2575	Fairmount Dr.	6	Asbestos Cement	120	WAR 1950	1006	0.00	0.00	0.000
P-2576	Hill Top Dr.	6	Asbestos Cement	115	WAR 1948	934	1.76	0.02	0.000
P-2577	Shady Glen Dr.	6	Asbestos Cement	115	WAR 1948	1059	0.00	0.00	0.000
P-2578	H# Top Dr.	6	Asbestos Cement	115	WAR 1948	1075	0.00	0.00	0.000
P-2570	Spencer Ave	10	Cast iron	60	WAR 1890	876	-24.85	0.10	0.020
P-2580	Spencer Ave	10	Cast iron	60	WAR 1890	764	23.09	0.09	0.020
P-2581	Sammartion Cir	8	Asbestos Cement	130	WAR 1976	641	0.00	0.00	0.000
D 2592	Sammartino Cir	A	Asbestos Cement	130	WAR 1976	219	1.76	0.01	0.000
P 2502		A	Asbestos Cement	130	WAR 1977	2319	-3.53	0.02	0.000
P-2363			Cast imn	30	WAR 1886	1623	0.00	0.00	0.000
P-2564			Caetimo	60	WAR 1890	1061	-21.33	0.09	0.020
P-2585	Spencer Ave.	10	Castima		WAR 1890	416	19.56	0.08	0.010
P-2586	Spencer Ave.				WAR 1020	1519	1.76	0.01	0.000
P-2587	Bay View Ave.		Castinon	70	W/AD 1020	237	21.61	0.06	0.000
P-2588	Bay View Ave	12		10	W/AD 1020	222	1 76	0.02	0.000
P-2589	Beverty Rd.	6	Cast iron	40	WAR 1029		- 18.00	0.05	0.000
P-2590	Bay View Ave.	12	Cast iron	10	WAR 1928	602	1 76	0.00	0.000
P-2591	Berkeley Rd.	6	Cast iron	40	VVAR 1928	000	14 50	0.02	0.000
P-2592	Bay View Ave.	12	Cast Iron	70	WAR 1928		14.00	0.04	0.000
P-2593	Spencer Ave.	6	Cast iron	45	WAR 1936		-0.0/	0.00 A +F	0.000
P-2594	Cedar St.	6	Asbestos Cement	125	WAR 1966	1455	-13.0/	0.15	0.040
P-2595	Cedar St.	6	Cast iron	45	WAR 1936	1100	5.73		0.040
P-2596	Love Ln.	16	Ductile Iron	140	WAR 2001	3833	-14.84	0.02	0.000
P-2597	Harrop Ave.	6	Cast iron	45	WAR 1933	901		0.04	0.010
P-2598	Harrop Ave.	6	Cast iron	45	WAR 1933	139	1,76	0.02	0.000
P.2500	Amolds Neck Dr.	8	Asbestos Cement	115	WAR 1946	646	15.87	0.10	0.010
P-2600	Amolds Neck Dr.	8	Asbestos Cement	115	WAR 1946	974	14.10	0.09	0.010
P.2601	Amolds Neck Dr	8	Asbestos Cement	115	WAR 1946	1722	7.80	0.05	0.000
P_2602	Shattock Ave	6	Ductile Iron	140	WAR 2002	241	1.76	0.02	0.000
P-2602	Stanlas Ave	6	Asbestos Cement	115	WAR 1946	531	4.54	0.05	0.000
P-2003)	Stapies AVe.	· · · · ·							

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Label	Description	Dlameter (in)	Material	Hazen- Williams C	Notes	Length (ft)	Discharge (gpm)	Velocity (ft/s)	Calculated Friction Headloss (ft)
P-2604	Staples Ave.	6	Asbestos Cement	115	WAR 1946	2096	2.77	0.03	0.000
P-2605	Arnoids Neck Dr.	8	Asbestos Cement	115	WAR 1946	932	4.28	0.03	0.000
P-2606	Amolds Neck Dr.	8	Asbestos Cement	115	WAR 1946	293	1.76	0.01	0.000
P-2607	Paul Ave.	6	Asbestos Cement	115	WAR 1946	282	0.75	0.01	0.000
P-2608	Paul Ave.	6	Asbestos Cement	115	WAR 1946	298	1.76	0.02	0.000
P-2610	Post Rd.	8	Ductile Iron	135	WAR 1999	301	-0.74	0.00	0.000
P-2611	Water St.		Ductile Iron	140	WAR 2001	. 211	16.60	0.11	0.000
P-2613	Water St.	8	Ductile Iron	140	WAR 2001	1034	14.84	0.09	0.010
P-2614	Post Rd.	8	Cast iron	60	WAR 1890	1053	-8.10	0.05	0.010
P-2615	Colonial Ave.	8	Ductile Iron	140	WAR 2001	838	13.07	0.08	0.000
P-2616	Post Rd.	8	Cast iron	60	WAR 1890	272	19,41	0.12	0.010
P-2617	Post Rd.		Cast iron	60	WAR 1890	321	10.33	0.10	0.010
P-2618	Post Rd.	8	Cast iron	60	WAR 1890	337	5.01	0.03	0.000
P-2619	Post Rd.	8	Cast iron	60	WAR 1890	449	1.70	0.01	0.000
P-2620	Pleasant St.	4	Cast Iron	35	WAR 1910	300	0.45	0.03	0.010
P-2621	Coyle St.	4	Cast Iron		WAR 1910	309	0.45	0.01	0.000
P-2622	Prospect St.		Ductile Iron	135	WAR 1990	204	1.97	0.00	0.000
P-2623	Coyle St.	4	Cast iron	30	WAR 1910	522	1.07	0.03	0.020
P-2624	Spruce St.	4	Cast Iron	30	WAR 1910	453	1 60	0.04	0.020
P-2625	Spruce St.	6	PVC	130	WAR 1965	400	1.08	0.02	1 0.000
P-2626	Post Rd.	2	Copper	///	WAR 1946	002	1.70	0.32	0.020
P-2627	Oak St.	4	Cast iron	35	WAR 1910	J24 AC4	.2.74	0.00	0.020
P-2628	Prospect St.	8	Ductile Iron	130	WAR 1990	2401	0.01	0.02	0.000
P-2629	Oak St.	8	Ductile Iron	135	WAR 1990	04U	-1.75	0.00	0.000
P-2630	Pleasant St.	8	Ductile Iron	135	WAR 1990	010	1 72	0.01	0.000
P-2631	Veterans Memorial Dr.	8	Asbestos Cement	115	WAR 1949	903	1./0	0.01	0.000
P-2632	Veterans Memorial Dr.	8	Asbestos Cement	115	WAR 1949	010	-0.21	0.03	0.000
P-2633	Greenwich Ave.	12	Cast iron	/5	VVAR 1933	910	-91.00	0.20	0.000
P-2634	Greenwich Ave.	12	Cast iron	/5	WAR 1933	23/9	2.52	0.24	0.000
P-2636	Panto Rd.	6	Asbestos Cement	120	WAR 1954	409	1.00	0.04	0.000
P-2637	Panto Rd.	6	Asbestos Cement	120	WAR 1934	1406	0.76	0.01	0.000
P-2638	Sophia Rd.	6	Aspestos Cement	120	WAR 1934	1490	46.62	0.57	1,810
P-2639	Bridal Ave.	6	Cast iron	40	WAR 1922	E23	63.60	0.61	1.510
P-2640	Bridal Ave.	6	Cast iron	40	WAR 1922	402	£ 20	0.01	0.000
P-2641	Cactus St.	8	Asbestos Cement	120	WAR 1950	493	2.28	0.03	0.000
P-2642	Cactus St.	8	Asbestos Cement	120	WAR 1900	230	0.75	0.02	0.000
P-2643	Crocus St.	6	Aspestos Cement	120	WAR 1900	120	176	0.01	0.000
P-2644	Cactus St.	8	Asbestos Cement	120	WAR 1930	4652	1.70	0.01	0.000
P-2645	Major Potter Rd.	8	PVC	130	VVAR 1900	4032	-7.05	0.01	0.000
P-2646	Major Potter Rd.	12	PVC	1.30	VVAR 1903	1000	207.76	0.02	0.150
P-2647	Toligate Rd.	10	Cast fron	10	WAR 1920	485	1 76	0.00	0.000
P-2648	Elmer Ave.	8	Ductile fron	100	WAR 1995	053	359.64	0.37	0.030
P-2649	Fairmount Dr.	20	Aspestos Cement	123	WAR 1904	355	357.88	0.37	0.010
P-2650	Hill Top Dr.		Aspestos Cement	125	WAR 1904	1452	327.01	0.33	0.040
P-2651	Love Ln.	20	Aspestos Cement	125	WAP 1964	360	326 14	0.33	0.010
P-2652	Love Ln. PRV	20	Asbestos Cement	125	WAP 1964	110	15.87	0.02	0.000
P-2653	Love Ln.	<u>2v</u>	Aspesios Cement	140	WAR 2000	1162	-10.58	0.07	0.000
P-2654	Governors Dr.		Asherter Cornect	120	WAR 1957	1140	-5.29	0.02	0.000
P-2655	Love Ln.	12	Asbestos Comert	120	WAR 1057	503	-10.58	0.03	0.000
P-2656	Love Ln.	12	Aspestos Cemera	120	WAP 1057	3137	-322.62	0.92	1.130
P-2657	Love Ln.	12	Asbertes Comtent	120	WAR 1057	330	326.15	0.93	0.120
P-2658	Love Ln. PRV	12	Aspestos Cement	120	WAR 1057	30.9	1.76	0.01	0.000
P-2659	Love Ln.	12	Asbestos Cemert	120	WAR 1067	107	0.00	0.00	0.000
P-2660	Love Ln.	12	Asheetos Coment	125	WAR 1985	767	1.76	0.02	0.000
P-2661	Bay View Ave.		Acheetoe Compet	120	WAR 1072	465	-0.68	0.01	0.000
P-2662	Adelaide Ave.		Aspesios Cement	130	WAR 1085	712	5.29	0.03	0.000
P-2663	Briarbrook Dr.	<u> </u>		130	WAR 1085	465	1.76	0.01	0.000
P-2664	Green Hill Way	- <u>ð</u>	Ductile Iron	120	WAR 10R5	419	1.76	0.01	0.000
P-2665	Briarbrook Dr.	×		120	WAR 108/	2533	-1999.37	1.42	0.790
P-2667	Baid Hill Rd.	24	Aspestos Cement	130	WAR 1084	2000	1997.61	1.42	0.060
P-2668	Baid Hill Rd. PS	24		120	WAR 1984	367	1997.61	5.67	3.350
P-2669	Baid Hill KO. PS	14	Ductile Iron	120	WAR 1984	838	1997.61	8.16	18.590
P-2670	Baid Hill Rd. PS		Ductile Ima	120	WAR 1984	387	- 0.00	0.00	0.000
P-2672	Baid Hill KC. PS	- 12	Ductile toon	130	WAR 1984	854	0.00	0.00	0.000
P-2673	Baid Hill KO. PS		Achegtos Coment	130	WAR 1984	163	0.00	0.00	0.000
P-2674	Baid Hill Rd. PS		Ashertos Comort	130	WAR 1984	177	0.00	0.00	0.000
P-2675	Baid Hill KO, PS	42	Ductie imn	130	WAR 1984	752	0.00	0.00	0.000
P-2676	Bake Hill Kd. PS	12	Diretile Imp	130	WAR 1984	327	0.00	0.00	0.000
P-2677	Baid Hill Rd. PS	10		130	WAR 1984	161	0.00	0.00	0.000
P-2678	Baid Hill Kd. PS		Ductile iron	130	WAR 1984	788	0.00	0.00	0.000
P-2679	Baki Hill Rd. PS		Durtile Imn	130	WAR 1984	348	0.00	0.00	0.000
P-2680	Bald Hill Rd. PS		Ashortes Coment	130	WAR 1984	451	-1997.61	1.42	0.140
P-2681	Baid Hill Rd. PS	24	Asuestos Cement	120	WAR 1984	132	0.00	0.00	0.000
P-2682	Bald Hill Rd. PS	24	Aspestos Cement	130	WAR 1084	199	0.00	0.00	0.000
P-2683	Bald Hill Rd. PS	24	Aspestos Cement	130	WAR 1984	176	0.00	0.00	0.000
P-2684	Baid Hill Rd. PS	24	Aspesios Cement	70	WAR 1029	562	175.07	0.50	0.180
P-2685	Centerville Rd.	1 12	Last ron	1 · /V	1 1700 1940				

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		1 1		r					Calculated
•		Diameter		Hazen-			Discharge	Velocity	Friction
Label	Description	(in)	Material	Williams C	Notes	Longth (ft)	(gpm)	<u>(ft/s)</u>	Headloss (ft)
P-2686	Centerville Rd.	12	Cast iron	70	WAR 1928	263	173.30	0.49	0.080
P-2687	Centerville Rd.	12	Cast iron	70	WAR 1928	130	0.00	0.00	0.000
P-2688	Warwick Tanks	24	Asbestos Cement	130	WAR 1984	154	2001.14	1.42	0.050
P-2689	Warwick Tanks	24	Asbestos Cement	130	WAR 1984	353	830.60	0.59	0.020
P-2690	Warwick Tanks	24	Asbestos Cement	130	WAR 1984	187	1170.53	0.83	0.020
P-2691	Prospect St.	8	Ductile Iron	135	WAR 1990	251	7.80	0.05	0.000
P-2692	Post Rd.	16	Ductile fron	135	WAR 1999	776	-33.43	0.05	0.000
P-2694	Cedar St.	6	Asbestos Cement	125	WAR 1966	955	3.97	0.05	0.000
P-2695	Carrs Ln.	6	Ductile Iron	135	WAR 1991	711	1.76	0.02	0.000
P-2696	Rutherford Ave.	6	Asbestos Cement	120	WAR 1950	639	17.17	0.19	0.030
P-2697	Rutherford Ct.	6	Asbestos Cement	120	WAR 1950	292	1.76	0.02	0.000
P-2698	Quaker Ln.	20	Asbestos Cement	125	WAR 1969	1358	819.99	0.84	0.210
P-2699	Post Rd.	12	Cast iron	70	WAR 1928	387	78.11	0.22	0.030
P-2701	Post Rd.	8	Cast iron	60	WAR 1890	433	-9.86	0.06	0.010
P-2702	Post Rd.	8	Cast iron	60	WAR 1890	101	17.62	0.11	0.000
P-2703	Post Rd.	8	Cast iron	60	WAR 1890	62	29.25	0.19	0.010
P-2704	Post Rd.	12	Cast iron	70	WAR 1928	402	47.10	0.13	0.010
P-2705	Post Rd.	12	Cast iron	70	WAR 1928	188	42.84	0.12	0.000
P-2706	Post Rd	8	Ductile Iron	135	WAR 1999	50	2.50	0.02	0.000
P-2707	Ashmont St	6	Asbestos Cement	120	WAR 1957	415	14.21	0.16	0.010
P-2708	Ashmont St.	6	Asbestos Cement	120	WAR 1957	267	10.69	0.12	0.010
P-2709	Taylor I n	8	Ductile Iron	140	WAR 2003	250	1.76	0.01	0.000
P-2710	Windemers Way	8	Asbestos Cement	110	WAR 1939	349	26.63	0.17	0.010
P-2714	Windemere Way	8	Asbestos Cement	110	WAR 1939	534	20.06	0.13	0.010
P 9712		A	Asbestos Cement	115	WAR 1946	477	-4.80	0.05	0.000
F-2/12	Poscock Pd	8	Ashestos Cement	130	WAR 1972	325	3.53	0.02	0.000
P-2/13	Peacock Dd	- v	Disctile Iron	135	WAR 1992	700	1.76	0.01	0.000
P-2/14	Peacex Ru.		PVC	130	WAR 1988	615	-8.70	0.06	0.000
P-2/15	Tallasta Bd	12	Cast iron	90	WAR 1928	127	-155.28	0.44	0.020
P-2/16	Toligate Ru.	12	Cast imn	90	WAR 1928	1573	-157.04	0.45	0.260
P-2717	Toligate Ro.		Castimo	90	WAR 1928	1626	-181.72	0.52	0.350
P-2718	Toligate Rd.	12	Cast imp	90	WAR 1928	1041	-185.25	0.53	0.230
P-2719	Toligate Hd.	12	Achertos Coment	130	WAR 1971	1044	1.76	0.01	0.000
P-2720	Orchard Ave.	0	Aspesius Centeri	75	WAR 1932	675	57.36	0.37	0.170
P-2721	Centerville Rd.	0	Casting	75	WAR 1932	274	53.83	0.34	0.060
P-2722	Centerville Rd.		Cast int	45	WAR 1932	520	1.76	0.02	0.000
P-2723	Benefit St.	<u> </u>	Cast IIOn	140	WAR 2000	178	61 15	0.39	0.020
P-2724	Diamond Hill Rd.	8	Ductile from	140	WAR 2000	1378	57 62	0.37	0.110
P-2725	Diamond Hill Rd.	8	Ductile from	125	WAR 1964	200	1.76	0.02	0.000
P-2726	Osborne St.	6	Aspestos Cement	120	14/40 1060	536	11 41	0.13	0.010
P-2727	Sage Dr.	6	Asbestos Cement	120	V/AD 1000	306	-3.42	0.04	0.000
P-2728	Sage Dr.	6	Asbestos Cement	125	14/4D 2001	177	-072	0.13	0.000
P-2729	Bishop Rd.	6	Ductile Iron	140	WAR 2001	341	1.76	0.02	0.000
P-2730	Bishop Rd.	6	Asbestos Cement	125	WAR 1908	228	10.79	0.07	0.000
P-2731	Oberlin Dr.	8	Ductile Iron	140	WVAR 2001	720	7 27	0.05	0.000
P-2732	Oberlin Dr.	8	Ductile Iron	140	VVAR 2001	123	1 76	0.00	0.000
P-2733	Tomahawk Ct.	8	Ductile Iron	140	WAR 2001	225	0.00	0.00	0.000
P-2734	Sandro Dr.	6	Asbestos Cement	120	VVAR 1954	764	-3.53	0.04	0.000
P-2735	Sandro Dr.	6	Asbestos Cement	120	WYAR 1934	175	1.76	0.02	0.000
P-2736	Sandro Cir.	6	Asbestos Cement	120	VVAR 1954	404	_209.20	0.02	0.120
P-2737	Cowesett Rd.	12	Asbestos Cement	125	VVAR 1900	404	-230.30	0.05	0 140
P-2738	Cowesett Rd.	12	Asbestos Cement	125	WAR 1966	4/0	1 70	0.00	0.000
P-2739	Whispering Ln.	6	PVC		WAR 1988	390	1.10	0.02	0.000
P-2740	Ann Nolst Ct.	8	Ductile Iron	135	WAR 1997	/31	42.24	0.10	0.040
P-2741	Easement	8	Ductile Iron	135	WAR 1997	027	40.40	0.20	0.000
P-2742	Spencer Hitt Ct	8	Ductile fron	135	WAR 1997	319	30.72	0.23	0.000
P-2743	Major Potter Rd.	12	Cast iron	80	WAR 1969	532	- 8.81	0.03	0.000
P-2744	Major Potter Rd.	8	Ductile Iron	140	WAR 2000	1055	0.29	0.03	0.000
P-2745	Major Potter Rd.	8	Ductile Iron		WAR 2000	469	1./0	0.01	0.000
P-2746	Eagle Run	12	PVC	130	WAR 1988	345	1.76	0.01	0.000
P 2747	Corev Ave.	6	Cast iron		WAR 1887	400	1.48	0.02	0.000
P-2748	Corey Ave.	_ 8	Ductile Iron	135	WAR 1996	475	-0.28	0.00	0.000
P-2749	Centerville Rd.	8	Cast iron		WAR 1932	207	23.31		0.010
P-2750	Quaker Ln.	16	Ductile Iron	140	WAR (new high	84 1033	- 3.4/	- 0.01	0.000
P-2751	Woodfield Farm	8	Ductile Iron	140	WAR (new sub	IV 10			0.000
P-2752	Woodfield Farm	8	Ductile Iron	140	WAR (new sub	00 <u>0 vii</u>	0.00		0.000
P-2753	Woodfield Farm	8	Ductile Iron	140	WAR (new subo	HN 120		0,00	0.000
P-2754	Woodfield Farm	8	Ductile Iron	140	WAR (New SUD	180 180 5 4 4 6 6	0.10	0.00	0.000
P-2755	Woodfield Farm	8	Ductile Iron	140	VVAK (new sub	180	0.10		0.000
P-2756	Woodfield Farm	8	Ductile Iron	140	WAR (new sub	IM 200	- 0.16		0.000
P-2757	Woodfield Farm	8	Ductile Iron	140	WAR (new sub	190 <u>190</u>			0.000
P-2758	Greenwich Ave.	12	Cast iron	75	WAR 1933	308	10.0/	0.00	0.000
P-2759	Residences at the Crossings	12	Ductile Iron	140	WAR (new rest				0.000
P-2760	Residences at the Crossings	12	Ductile Iron	140	WAR (new rest	0 01 420	0.00	0.00	0.000
P-2761	Residences at the Crossings	12	Ductile Iron	140	WAR (new resi	Del 280	0./1	0.00	0.000
P.2762	Residences at the Crossings	12	Ductile Iron	140	WAR (new resi	uel 520		0.00	
P-2762	Residences at the Crossings	12	Ductile fron	140	WAR (new resi	0el <u>565</u>	0./1	0.00	- 0.000
P-2764	Residences at the Crossings	12	Ductile Iron	140	WAR (new resi	gel <u>330</u>	0.00) 0.00	
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-	Label	Description	Diameter (in)	Materiai	Hazen- Williams C	Notes	Length (ft)	Discharge (gpm)	Velocity (ft/s)	Friction Headloss (ft)
-	P-2765	Residences at the Crossings	12	Ductile Iron	140	WAR (new reside	190	0.71	0.00	0.000
L L	P-2766	Residences at the Crossings	12	Ductile Iron	140	WAR (new reside	640	0.71	0.00	0.000
- [P-2767	Residences at the Crossings	12	Ductile Iron	140	WAR (new office	210	0.00	0.00	0.000
Ĺ	P-3000	Pinehill Rd.	8	Ductile Iron	135	WG 1995	228	83.28	0.53	0.040
	P-3001	Nichole Ln.	8	Asbestos Cement	130	WG 1981	1035	38.56	0.25	0.050
Ļ	P-3002	Nichole Ln.	8	Asbestos Cement	130	WG 1981	348	_10 12	0.33	0.030
	P-3003	Nichole Ln.	8	Asbestos Cement	130	W/C 1001	330	60.47	0.14	0.000
— -	P-3004	Easement	8	Aspestos Cement	130	WG 1901	1670	-103.40	0.55	0.000
	P-3005	Mishnock Kd.	12	Achectos Comost	120	WG 1070	430	261.65	0.74	0.090
-	P-3006	MISNNOCK Rd.		Asbestos Cement	130	WG 1071	134	1 31	0.01	0.000
ŀ	P-3008	Dailey Dr.		Achestos Cement	130	WG 1971	1578	56.61	0.36	0,140
ŀ	P-3009	Michnork Dd	12	Ashestos Coment	130	WG 1970	1785	199.79	0.57	0.230
	P-3010	Mishnock Rd	12	Asbestos Cement	130	WG 1970	1895	151.40	0.43	0.150
ŀ.	P-3012	Mohawk Tr	8	Asbestos Cement	130	WG 1971	536	47.08	0.30	0.030
ŀ	P-3013	Seminole Tr.	8	Asbestos Cement	130	WG 1971	433	14.37	0.09	0.000
ł	P-3014	Chevene Tr.	6	Asbestos Cement	130	WG 1971	718	1.31	0.01	0.000
ł	P-3015	Seminole Tr.	8	Asbestos Cement	130	WG 1971	1386	11.74	0.07	0.010
- 1	P-3016	Mohawk Tr.	8	Asbestos Cement	130	WG 1971	297	31.40	0.20	0.010
f	P-3017	Mohawk Tr.	8	Asbestos Cement	130	WG 1971	130	-13.97	0.09	0.000
ſ	P-3018	Mohawk Tr.	8	Asbestos Cement	130	WG 1971	226	24.40	0.16	0.000
	P-3019	Sioux Tr.	6	Asbestos Cement	130	WG 1971	378	21.78	0.25	0.020
_ I	P-3020	Clubhouse Rd.	6	Asbestos Cement	130	WG 1971	804	-16.12	0.18	0.030
[P-3021	Mohawk Tr.	8	Asbestos Cement	130	WG 1971	1200	1.37	0.01	0.000
	P-3022	Clubhouse Rd.	6	Aspestos Cement	130	WG 19/7	1/10	30.39	0.42	0.000
	P-3023	Clubhouse Rd.	- 6	Aspestos Cement	130	WG 1008	2122	33.97	0.22	0.070
	P-3024	Ula Hickory Ur.		Achestos Comert	120	WG 1971	356	1.31	0.01	0,000
-	P-3025			Achastric Coment	130	WG 1971	842	31.35	0.20	0.030
	P-3020			Ashestos Cement	130	WG 1977	710	1.31	0.01	0.000
	P-302/	Cambio CL		Asbestos Cement	130	WG 1971	3614	28.73	0.18	0.090
ļ	P.3020	Pine Tree I n	- 8	Asbestos Cement	130	WG 1971	1161	-15.64	0.10	0.010
ł	P-3025	Pond View Ct	6	Asbestos Cement	130	WG 1976	934	1.31	0.01	0.000
	P-3031	Lake Dr.	8	Asbestos Cement	130	WG 1971	1285	43.06	0.27	0.070
	P-3032	Pine Tree Ln.	8	Asbestos Cement	130	WG 1971	1215	-18.26	0.12	0.010
	P-3033	Mishnock Rd.	12	Asbestos Cement	130	WG 1970	833	-184.51	0.52	0.090
	P-3034	Mishnock Rd.	12	Asbestos Cement	130	WG 1970	871	-204.08	0.58	0.120
	P-3035	Ragnell Rd.	6	Asbestos Cement	140	WG 1976	348	1.31	0.01	0.000
	P-3036	Mishnock Rd.	12	Asbestos Cement	130	WG 1970	1462	-206.70	0.59	0.200
	P-3038	Nooseneck Hill Rd.	8	Asbestos Cement	125	WG 1965	1307	9.18	0.06	0.000
	P-3039	Valerie Dr. (Private)	8	Ductile Iron	135	WG 1990	699	1.31	0.01	0.000
	P-3040	Nooseneck Hill Rd.	8	Aspestos Cement	125	WG 1965	49/	1 24	0.04	0.000
	P-3041	Valerie Dr.	8	Asbestos Cement	125	WG 1909	DI/ BAS	1.01	10.0	0.000
	P-3042	Nooseneck Hill Rd.		Aspestos Cement	123	WG 1965	752	1.31	0.01	0.000
	P-3043	Brant ir. (Private)	8	Aspestos Comort	125	WG 1965	126	1.31	0.01	0.000
	P-3044	Nooseneck Hill Rd.	20	Ductile imp	140	WG 2001	2787	•1.31	0.00	0.000
	P 3046			Ductile Imn	130	WG 1988	1432	682.77	1.09	0.440
·	P 2047	Hookies Hill 24	20	Ductile Imn	140	WG 2001	1460	-2.62	0.00	0.000
	P.3040	Honkins Hill Rd	12	Ductile Iron	130	WG 1989	1609	1.31	0.00	0.000
	P_3060	Technology Park Tank	16	Ductile Iron	130	WG 1988	2944	680.15	1.09	0.900
	P-3051	Technology Fark Tank	16	Ductile Iron	130	WG 1988	266	101.60	0.16	0.000
	P.3052	Welgen - 95 Easement	16	Ductile Iron	135	WG 1995	6701	-280.51	0.45	0.370
	P-3053	Division St.	16	Ductile iron	140	WG 2001	4660	-84.03	0.13	0.030
	P-3054	Carrs Pond Rd.	20	Ductile Iron	140	WG 2001	1212	-105.21	0.11	0.000
	P-3055	Carrs Pond Rd. Tank	16	Ductile Iron	140	WG 2001	763	-207.54	0.33	0.020
	P-3056	Carrs Pond Rd.	20	Ductile Iron	140	WG 2001	2173	102.33	0.10	0.010
	P-3057	Division St.	20	Ductile iron	140	WG 2001	4535	6.55	0.01	0.000
	P-3058	Hopkins Hill Rd.	20	Ductile Iron	140	WG 2001	1973	-3.93	0.00	0.000
	P-3059	Division St,		Ductile Iron	140	WG 2001	94123	226.24	0.01	0.400
	P-3060	Mishnock Rd.		Aspestos Cement	130	WG 1970	130	10 49	0.03	0.000
	P-3061	Mishnock Rd.	12	Aspestos Cement	100	WG 1965	1168	0.00	0.00	0.000
	P-3062	Nooseneck Hill Rd.	14	Ashestos Cament	130	WG 1971	283	- 60.55	0.39	0.030
	P-3063	L Eddy St.	9 1	Ashestos Coment	130	WG 1971	2103	59.23	0.38	0.200
	P-3064	Technology Back Tank	- 16	Ductile Iron	130	WG 1988	410	101.60	0.16	0.000
	P-3000	Care Dond Rd	20	Ductile Iron	140	WG 2001	3874	-91.89	0.09	0.010
	P_3082	Deer Run Dr	8	Ductile Iron	140	WG (Deer Run E	s 620	11.10	0.07	0.000
—	P.3082	Deer Run Dr.	8	Ductile Iron	140	WG (Deer Run E	s 920	2.22	0.01	0.000
	P-3084	Buck Hollow Dr.	8	Ductile Iron	140	WG (Deer Run E	s 425	6.66	0.04	0.000
	P-3085	Doe PI:	8	Ductile Iron	140	WG (Deer Run E	s <u>350</u>	2.22	0.01	0.000
	P-3086	Buck Hollow Dr.	8	Ductile iron	140	WG (Deer Run E	<u>e 810</u>	2.22	0.01	0.000
	P-3087	Deer Run Dr.	8	Ductile Iron	140	WG (Deer Run E	<u>== 500</u>	13.32	0.09	0.000
	P-3088	LeCesse Multi-family	8	Ductile Iron	140	WG	- 140	26.04	0.00	0.020
	P-3089	LeCesse Multi-family	8	Ductile iron	140	WG	650	30.81	0.24	0.020
	P-3090	LeCesse Multi-family	8	Ductile Iron	140	WG	200	11 32	0.10	0.000
	P-3091	LeCesse Multi-family	8	Ductile Iron	140	VVG	200	22	0.01	0.999

Г			1							Calculated
			Diameter		Hazen	1		Discharge	Velocity	Friction
		D	Diameter	Madanial	Millions C	Notor	Length (ft)	(000)	(ftia)	Headloss (ft)
-		Description	(10)	material Dustile lease	140	140KGa	150	9.21	0.05	0.000
	P-3092	LeCesse Multi-family	8	Ductile fron	140	WC	300	2.68	0.00	0.000
1.	P-3093	LeCesse Multi-family	8	Ductile from	140	WG WC	300	2.00	0.02	0.000
·	P-3094	LeCesse Multi-family	8	Ductile Iron	140	WG	350	-0.33	0.00	0.000
-	P-3095	LeCesse Multi-family	8	Ductile Iron	140	WG	400	5.90	0.04	0,000
	P-3096	LeCesse Multi-family	8	Ductile Iron	140	WG	400	-14.93	0.10	0.000
	P-3097	LeCesse Multi-family	8	Ductile Iron	140	WG	800	-23.57	0.15	0.010
	P-3098	LeCesse Multi-family	8	Ductile Iron	140	WG	500	-32.21	0.21	0.010
	P-3099	LeCesse Multi-family	10	Ductile Iron	140	WG	10	77.76	0.32	0.000
	P-3100	Welgen - 95 Easement	16	Ductile Iron	135	WG 1995	4023	552.79	0.88	0.780
L I	P-4000	Longmeadow Dr.	8	Ductile Iron	140	EG 2003	2138	-8.33	0.05	0.000
ľ	P-4001	Frenchtown Rd.	16	Ductile Iron	140	EG 2002	2727	-10.10	0.02	0.000
	P-4002	Frenchtown Rd.	16	Asbestos Cement	130	EG 1970	585	32.35	0.05	0.000
	P-4003	Frenchtown Rd.	16	Asbestos Cement	130	EG 1970	971	17.64	0.03	0.000
— h	P-4004	Bear Swamp Rd.	8	Asbestos Cement	130	EG 1978	1076	3.02	0.02	0.000
ŀ	P-4005	Easement	12	Ductile iron	130	EG 1989	576	1.25	0.00	0.000
	P-4006	luniner Rd	12	Ductile Iron	130	EG 1989	957	-12.94	0.04	0.000
ł	P-4000	luniper Nd.	12	Ductile Iron	130	EG 1989	681	12.41	0.04	0.000
-	P-4007	United Complete Rd	12	Ductile Imn	130	EG 1989	1023	1.77	0.01	0.000
-	P-4006	Hunters Crossing Ru.	12	Ductile imn	135	EG 1992	1104	8.86	0.03	0.000
	P-4009	Juniper Ra.	12	Ducule Iron	135	EG 1002	949	1 77	0.01	0.000
	P-4010	Mallard Way	12	Ducale Iron	135	EG 1002	480	5 32	0.02	0,000
	P-4011	Juniper Rd.	12	Ductile Iron	135	EG 1992	409	1 77	0.02	0.000
	P-4012	Wood Duck Ct.	8		135	EQ 1994	305	4 77	0.01	0.000
_ [P-4013	Juniper Rd.	8	Ductile Iron	135	EG 1992	395	44.00	0.01	0.000
	P-4014	Woodbridge Dr.	8	PVC	125	EG 19/8	1/6/	-44.22	0.44	0.110
1	P-4015	Woodbridge Dr.	8	PVC	125	EG 1978	557	-16.60	0.11	0.010
	P-4016	Sonnet Dr.	8	PVC	130	EG 1987	780	1.77	0.01	0.000
	P-4017	Woodbridge Dr.	8	PVC	125	EG 1978	2728	-20.15	0.13	0.040
1	P-4018	High Hawk Rd.	12	PVC	130	EG 1986	605	1.77	0.01	0.000
	P-4019	High Hawk Rd.	12	PVC	130	EG <u>1986</u>	502	-23.69	0.07	0.000
	P_4020	Sheen Farm Dr	12	PVC	130	EG 1987	1938	26.93	0.08	0.010
	P-4021	Sheen Farm Dr	8	PVC	130	EG 1987	760	21.66	0.14	0.010
	P-4022	Deerfield Dr	8	PVC	130	EG 1987	1052	29.39	0.19	0.030
	D 4022	High Hand Bd	12	PVC	130	EG 1986	435	-52.40	0.15	0.000
	P-4023	Phospat Dr	12	PVC	130	EG 1989	2856	-116.04	0.33	0.130
1	P-4024	Coordina Di,	8	Ductile Imo	135	EG 1993	933	1.77	0.01	0.000
	P-4025	Sparrow Cr.	16	Ductile Imp	135	EG 1993	695	-119.59	0,19	0.010
	P-4026	Friedstand Dr.	16	Ductile Imn	135	EG 1994	1495	-121.36	0.19	0.020
	P-4027	Easement	10	DVC	130	EG 1986	268	-61.87	0.18	0.000
	P-4029	High Hawk Ko.		PVC	130	EG 1997	1923	10.14	0.06	0.010
	P-4030	Osprey Dr.			130	EG 1097	550	3.50	0.02	0.000
	P-4031	Osprey Dr.	8	PVC	130	EG 1907	976	11.86	0.08	6,000
	P-4032	Rabbit Run	8	PVC	130	EB 196/	0/0	12.05	0.00	0.000
	P-4033	Deerfield Dr.	8	PVC	130	EG 1987	092	13.00	0.00	0.000
_	P-4034	Eagle Ln.	8	PVC	130	EG 1987	463	1.11	0.01	0.000
	P-4035	Deerfield Dr.	8	PVC	130	EG 1987	841	9.51	0.06	0.000
	P-4036	Deerfield Dr.	8	PVC	130	EG 1987	904	-2.96	0.02	0.000
	P-4037	Deerfield Dr	8	Asbestos Cement	130	EG 1974	738	-3.16	0.02	0.000
	P-4038	Falcon Cir.	8	Asbestos Cement	130	EG 1974	2691	1.57	0.01	0.000
	P-4039	Deerfield Dr	8	Asbestos Cement	130	EG 1974	761	-6.51	0.04	0.000
****	D 4040	High Hawk Rd	12	PVC	130	EG 1986	970	-49.96	0.14	0.010
	D 4041	Chector Dr	1 8	Asbestos Cement	125	EG 1968	462	22.18	0.14	0.010
	P-4041	List Louis P4	P P	Asbestos Cement	130	EG 1970	1954	-2.14	0.01	0.000
	P-4042			Achestos Coment	130	EG 1972	818	6.04	0.04	0.000
	P-4043	Squinei Ln.		Dustila Ima	140	EG 2000	599	1.77	0.01	0.000
	P-4044	Owi Tree Ln.	- 0	Achaetes Coment	120	FG 1972	146	2.50	0.02	0.000
	P-4045	<u>Squimei Ln.</u>		Acherter Comert	120	EG 1970	193	-9.96	0.06	0.000
	P-4046	High Hawk Rd.		Asbestos Coment	120	FG 1072	520	6.14	0.04	0.000
	P-4047	Cardinal Ln.		Aspestos Cement	130	EG 1072	476	1 77	0.02	0.000
	P-4048	Robin Ct.		Aspesios Cement	130	EG 1072	021	2.59	0.02	0.000
	P-4049	Cardinal Ln.		Aspestos Cement	130	EG 1070	670	.17.87	0.11	0.010
	P-4050	High Hawk Rd.	8	Asbestos Cement	130	EG 1970	707	1 77	0.01	0.000
	P-4051	Arbor Way	8	Aspestos Cement	130	EG 19/2	666		0 14	0.010
	P-4052	High Hawk Rd.	8	Aspestos Cement	130	EG 19/V	000	- <u></u>	0.27	0 130
	P-4053	High Hawk Rd.	8	Asbestos Cement	130	EG 19/0	204/	2 2 2 1	0.04	0.000
	P-4055	Chestnut Dr.	8	Asbestos Cement	125	EG 1968	203	-0.01		0.000
_	P-4056	Frenchtown Rd.	12	Ductile Iron	135	EG 1999	696	4.60	0.01	0.000
	P-4057	Franklin Rd.	8	Asbestos Cement	125	EG 1968	932	-26.91	0.17	0.020
	P-4058	Frenchtown Road Tank Easement	8	Ductile Iron	135	EG 1999	99	-1.77	- 0.01	0,000
	P-4059	French Road Tank Easement	12	Ductile iron	135	EG 1999	884	-2.72	0.01	0.000
	P_4060	Erenchtown Rd	16	Asbestos Cement	130	EG 1970	686	12.84	0.02	- 0.000
—	P 4061	Forchiown Rd	12	Asbestos Cement	125	EG 1964	139	0.00	0.00	0.000
	D 4060	Franchiown Rd	12	Ductile iron	135	EG 1999	59	11.07	0.03	0.000
	P 4002	Erenchtown Dd	12	Ductile Iron	135	EG 1999	243	9.30	0.03	0.000
	P-4063	Emotion Road Task Essent	20	Asbestos Cement	130	EG 1970	770	338.14	0.35	0.020
	1-4064	Frenchiown Road Tank		Ductile Imp	135	EG 1999	73	0.00	0.00	0.000
	P-4065	Freskingwithkoad Task	16	Ashestos Cement	130	EG 1970	356	338.14	0.54	0.030
	P-4066	FINICITOMI LONG 18IN	10	Ductile Imn	135	EG 1996	2310	5.02	0.02	0.000
	P-4067	Post Rd.			130	EG 1977	331	0.82	0.01	0.000
	P-4068	Cardinal Lane Easement	40		135	EG 1999	2156	5.17	0.01	0.000
	P-4069	Frenchtown Rd.	1 12							

[1							Calculated
1 abel	Description	Diameter	Material	Hazen- Williams C	Notes	Length (ft)	Discharge (gpm)	Velocity (ft/s)	Friction Headloss (ff)
	Tillinghast Od	12	Ductile imp	135	EG 1993	4419	7.09	0.02	0.000
P-4070	Tillinghast Rd	12	Ductile imn	140	EG 2000	1099	3.55	0.01	0.000
P-4072	Frederick T Miller Way	8	Ductile Imp	140	EG 2000	500	1,77	0.01	0.000
P-4072	Parton's Wood I n	8	Ductile Iron	135	EG 1993	1012	1.77	0.01	0.000
P-4075	Erenchtown Road (334')	20	Asbestos Cement	130	EG 1970	3033	-339.91	0.35	0.090
P-4076	Tillingbast Rd	20	Ductile Iron	130	EG 1983	1727	-8.42	0.01	0.000
P-4077	Tillinghast Rd.	20	Ductile Iron	130	EG 1983	1082	-10.19	0.01	0.000
P-4078	Tillioghast Rd.	20	Ductile Iron	130	EG 1983	4513	9.00	0.01	0.000
P-4079	Titlinohast Road (Closed Valva)	12	Ductile Iron	135	EG 1994	45	0.00	0.00	0.000
P-4080	River Run	8	PVC	125	EG 1979	1650	8.86	0.06	0.010
P-4081	River Run	8	PVC	125	EG 1979	1516	2.89	0.02	0.000
P-4082	Quail Ct.	8	PVC	125	EG 1979	291	1.77	0.01	0.000
P-4083	River Run	8	PVC	125	EG 1979	963	-0.66	0.00	0.000
P-4084	River Run	8	PVC	125	EG 1979	726	-4.20	0.03	0.000
P-4085	Rosewood Ct.	8	PVC	125	EG 1979	158	1,77	0.01	0.000
P-4086	Laurel Woods Dr.	8	Ductile Iron	135	EG 1995	1060		0.19	0.030
P-4087	Laurel Woods Dr.	8	Ductile Iron	135	EG 1995	1290	-16.77	0.11	0.010
P-4088	Laurel Woods Dr.	8	Ductile Iron	135	EG 1995	1618	14.83	0.09	0.010
P-4089	Laurel Woods Dr. (easement)	8	Ductile Iron	135	EG 1995	550	-33.37	0.21	0.020
P-4090	Adirondack Dr.	8	Ductile Iron	130	EG 1981	352	-35.15	0.22	0.010
P-4091	Cavalier Dr.	8	Ductile Iron	130	EG 1981	1114	-19.41	0.12	0.010
P-4092	Remy Place	8	Ductile Iron	130	EG 1981	395	1.77	0.01	0.000
P-4093	Cavalier Dr.	8	Ductile Iron	130	EG 1981	1458	-22.96	0.15	0.020
P-4094	Adirondack Dr.	8	Ductile Iron	130	EG 1981	602	8.10	0.05	0.000
P-4095	Adirondack Dr.	8	Ductile Iron	130	EG 1981	1916	21.05	0.13	0.030
P-4096	Cartier Ct.	6	Ductile Iron	130	EG 1986	540	1.77	0.02	0.000
P-4007	Adirondack Dr	8	Ductile Iron	130	EG 1981	915	17,51	0.11	0.010
P-4097	Exechial Carrie Rd	8	PVC	130	EG 1984	1549	-14.73	0.09	0.010
P-4090	Huling La	8	Ductile Iron	130	EG 1984	576	1.77	0.01	0.000
P 4100	Hulling Lit.	8	Ductile Iron	130	EG 1984	829	-18.27	0.12	0.010
P-4101	Adirondack Dr	8	Asbestos Cement	130	EG 1976	586	32.83	0.21	0.020
P-4101	Adimodack Dr.	- 8	Asbestos Cement	130	EG 1976	950	-52.88	0.34	0.070
P-4102	Adimodack Dr.	A	Ashestos Cement	130	EG 1976	706	-87.59	0.56	0.140
P-4103	Freeshtrawn Rd	12	Ashestos Cement	125	EG 1964	554	280.16	0.79	0.140
P-4104	Emerchanter Pd	12	Achectos Cement	125	EG 1964	332	316.28	0.90	0.110
P-4105	Hussort Dr.		Ashestos Cement	130	EG 1976	740	-29,40	0.19	0.020
P-4106	Hugenot Dr.	A	Asbestos Cement	130	EG 1975	767	1.77	0.01	0.000
P-4107	Hopping Dr.		Ashestos Cement	130	EG 1975	666	-32.94	0.37	0.090
P-4108	india Beth Cir	8	Ashestos Cement	130	EG 1973	1794	41.44	0.26	0.090
P-4109	Jogie Bein Ca.		Asbestos Coment	130	EG 1973	1243	37.89	0.24	0.050
P-4110	Ladia Bath Cir		Ductile imp	135	EG 1995	883	1.77	0.01	0.000
P-4111	Jodie Geori Cit.	20	Achestos Cement	130	EG 1970	608	-343.90	0.35	0.020
P-4113	Frenchtown Rd.	12	Asbestos Coment	125	EG 1964	2770	-410.96	1.17	1.450
P-4114	Frenchtown Rd.	12	Achestos Cement	125	EG 1964	6559	265.65	0.75	1,540
P-4115	So County IT.	- 12 -	Ductile imn	130	EG 1983	1502	3.68	0.00	0.000
P-4116	Milde Ku.	- 20	Achortoc Cement	125	EG 1963	661	8.86	0.10	0.010
P-4117		12	Ashestoc Coment	130	EG 1973	1424	144.70	0.41	0.100
P-4118	Niludie Kū.	<u>14</u>	Ashestos Cement	130	EG 1973	627	-29.25	0.19	0.020
P-4119	Stoneridge Dr.	2	Ashestos Cement	130	EG 1973	2007	-16.76	0.11	0.020
P-4120			Achestos Cement	130	EG 1975	1235	17.81	0.11	0.010
P-4121	Crystal Dr.		Asheetoe Comant	130	EG 1975	179	1.77	0.02	0.000
P-4122	Crystal Ct.	- 0	Achastra Comon	130	EG 1975	843	14.26	0.09	0.010
P-4123	Crystal Ur.	8		130	FG 1975	591	-36.34	0.23	0.020
P-4124	Stonendge Dr.		Ashartan Coment	120	EG 1973	2554	-43.43	0.28	0.140
P-4125	Stonendge Ur.		Durtile Imn	130	EG 1983	717	129.50	0.13	0.000
P-4126	Stonenage Ur.		Achectos Camant	130	EG 1975	533	5.32	0.06	0.000
P-4127	Grante Ur.		Acheetos Comont	130	EG 1977	1312	1.77	0.02	0.000
P-4128	Limerock Dr.	<u>_</u>	Acheetos Comort	130	EG 1975	1104	1.77	0.02	0.000
P-4129	Granite Dr.	<u>~</u>	Aspesios Cemeni	130	FG 1001	2	120.77	0.12	0.000
P-4130	Middle Rd.		Ductie Iron	130	FC 1082	1760	-118.86	0.12	0.010
P-4132	Fernwood Dr.		Ductile Iron	130	EG 1082	335	1.77	0.02	0.000
P-4133	Fernwood Dr.			130	FC 1083	1519	125.96	0.13	0.010
P-4134	Fernwood Dr.			130	EC 1086	2008	5.32	0.03	0.000
P-4135	Lynn Ckr.	- 8	PVC	120	EC 1096	444	1 77	0.01	0.000
P-4136	Darl Ct.	8	PV0	120	EC 1086	190	1.77	0.01	0.000
P-4137	Lynn Cir.	- 8	PVC	426	EG 100/	1130	8.11	0.01	0.000
P-4138	Middle Rd.		Ductile from	130	EG 1004	766	1.77	0.01	0.000
P-4139	Mawney Brook Dr.		Ductile Iron	130	EG (8994	300	4 56	0.01	0.000
P-4140	Middle Rd.	16	Ductile Iron	135	EC 1002	428	-3.07	0.05	0.000
P-4142	Clemente Dr.	6	Aspestos Cement	125	EG 1903		11 25	0.02	0.000
P-4143	Middle Rd.	16	Ductile fron	140	EG 2003	100	0.58	0.06	0.000
P-4144	McPartland Way	8	Ductile Iron	140	EG 2003		1 80	0.01	0.000
P-4145	McPartland Way		Ductile Iron	140	EG 2003		-2.10	0.07	0.000
P-4146	McPartland Way	8	Ductile iron	140	EG 2003	000		0.02	0.010
P-4147	Middle Rd.	16	Ductile Iron	140	EG 2002	749	40.07	0.07	0.000
P-4148	Middle Rd.		Ductile Iron	140	EG 2002	2404	_172 00	0.01	0.060
P-4149	Easement	16	Ductile Iron	135	EG 1994	2491	-17.3.80	0.40	0100
				495			i -24.33	1 0.10	

Label	Description	Diameter (in)	Material	Hazen- Williams C	Notes	Length (ft)	Discharge (gpm)	Velocity (ft/s)	Calculated Friction Headloss (ft)
P-4151	Brookfield Dr	8	Ductile Iron	135	EG 1994	822	1.77	0.01	0.000
P-4152	Westfield Dr.	8	Ductile Iron	135	EG 1991	1056	-27.88	0.18	0.020
P-4153	Westfield Dr.	16	Ductile Iron	135	EG 1991	1739	151.42	0.24	0.030
P-4154	Lenihan Rd.	8	Ductile Iron	140	EG 2002	2044	27.84	0.18	0.040
P-4155	Lenihan Rd.	8	Ductile Iron	140	EG 2002	608	3.48	0.02	0.000
P-4156	Ramano Rd.	8	Ductile Iron	140	EG 2002	519	3.48	0.02	0.000
P-4157	Middle Rd.	16	Ductile Iron	140	EG 2001	1419	100.56	0.16	0.010
P-4158	Middle Rd.	16	Ductile Iron	135	EG 1993	425	97.01	0.15	0.000
P-4159	Moosehorn Rd.	16	Ductile Iron	135	EG 1993	1807	95,24	0.15	0.010
P-4160	Miss Fry Dr.	16	Ductile Iron	135	EG 1993	774	93.47	0.15	0.010
P-4161	Chief Botelho Ct.	8	Ductile fron	135	EG 1994	537	1.//	0.01	0.000
P-4162	Miss Fry Dr.	16	Ductile iron	135	EG 1993	1271	89.93	0.14	0.010
P-4163	Bill Corr Way	8	Ductile Iron	135	EG 1993	721	1.//	0.01	0.000
P-4164	Partridge Run	8	Ductile Iron	135	EG 1993	1/20	1.//	0.01	0.000
P-4165	Westfield Dr	16	Ductile from	135	EG 1991	827	-181.07	0.29	0.020
P-4166	Westfield Dr.	16	Ductile Iron	135	EG 1993	2713	-96.4/	0.15	0.020
P-4167	Miss Fry Dr.	16	Ductile Iron	135	EG 1993	1736	86.38	0.14	0.010
P-4168	Division St.	16	Ductile Iron	135	EG 1995	2853	14.21	0.02	0.000
P-4169	Clemente Dr.	6	Asbestos Cement	125	EG 1963	741	5.32	0.06	0.000
P-4170	Watch Hill	8	Asbestos Cement	130	EG 1983	1088	-4.97	0.03	0.000
P-4171	Fox Run	8	Asbestos Cement	130	EG 1980	761	1.77	0.01	0.000
P-4172	Fox Run	8	Asbestos Cement	130	EG 1980	2093	-6.52	0.05	0.010
P-4173	Signal Ridge Way	12	Asbestos Cement	130	EG 1980	423	38.66	0.11	0.000
P-4174	Signal Ridge Way	12	Asbestos Cement	130	EG 1980	920	31.90	0.09	0.000
P-4175	Watch Hill	8	Asbestos Cement	130	EG 1983	4313	-4.99	0.03	0.000
P-4176	Signal Ridge Way	12	Asbestos Cement	130	EG 1980	765	-48.96	+ <u>0.14</u>	0.010
P-4177	Boulder Way	20	Ductile iron	130	EG 1983	3139	-174.71	0.18	0.030
P-4178	Signal Ridge Way	12	Asbestos Cement	130	EG 1980	1038	-40.09	0.11	0.010
P-4179	Signal Ridge Way	20	Ductile Iron	130	EG 1983	3173	-136.39	0.14	0.020
P-4180	Division St.	12	Asbestos Cement	120	EG 1957	52	138.16	0.39	0.000
P-4182	So County Tr.	12	Asbestos Cement	125	EG 1963	3722	183.05	0.52	0.440
P-4183	Shippee Town Rd.	16	Ductile Iron	135	EG 1995	1904	-36.21	0.06	0.000
P-4184	Crompton Rd.	16	Ductile Iron	135	EG 1991	274	-97.44	0.16	0.000
P-4185	Crompton Rd.	16	Ductile Iron	135	EG 1991	4079	288.73	0.46	0.240
P-4186	South County Tr.	12	Asbestos Cement	125	EG 1963	3443	42.55	0.12	0.030
P-4187	Ridge Rd.	6	Asbestos Cement	130	EG 1970	288	1.77	0.02	0.000
P-4188	Ridge Rd.	6	Asbestos Cement	130	EG 1970	322	8.27	0.09	0.000
P-4189	Valley Rd.	6	Asbestos Cement	130	EG 1970	271	4.72	0.05	0.000
P-4100	Pequat Tr.	8	Asbestos Cement	130	EG 1970	370	14.18	0.09	0.000
P-4191	Pequet Tr.	8	Asbestos Cement	130	EG 1970	171	10.64	0.07	0.000
P-4192	Wildwood Tr.	6	Asbestos Cement	130	EG 1970	1427	3.55	0.04	0.000
P_4103	Avrault Rd.	6	Asbestos Cement	130	EG 1970	165	1.77	0.02	0.000
P-4194	Pequot Tr.	6	Asbestos Cement	130	EG 1970	1200	5.32	0.06	0.010
P-4195	Avrault Rd.	6	PVC	130	EG 1988	114	1.77	0.02	0.000
P-4196	Avrault Rd.	6	PVC	130	EG 1988	307	1.77	0.02	0.000
P-4197	Valley Rd.	6	Asbestos Cement	130	EG 1970	1234	1.77	0.02	0.000
P-4198	Sleepy Hollow Rd.	6	Asbestos Cement	130	EG 1970	976	1.77	0.02	0.000
P-4199	Pequot Tr.	8	Asbestos Cement	130	EG 1970	945	-11.24	0.07	0.000
P-4200	King Phillip Tr.	8	Asbestos Cement	130	EG 1970	424	-14.78	0.09	1 0.000
P-4201	Canonicus Tr.	8	Ductile Iron	140	EG 2000	719	11.81	0.08	0.000
P-4202	King Phillip Tr.	8	Asbestos Cement	130	EG 1970	256	-31.91	0.20	0.010
P-4203	Cononchet Tr.	6	Asbestos Cement	130	EG 1970	441	1.77	0.02	0.000
P-4204	Pequot Tr.	8	Asbestos Cement	130	EG 1970	160	1.77	0.01	0.000
P-4205	Canonicus Tr.	6	Asbestos Cement	130	EG 1970	659	3.55	0.04	0.000
P-4206	Peauot Tr.	6	Asbestos Cement	130	EG 1970	458	1.77	0.02	0.000
P-4207	Sixth Ave.	10	Ductile Iron	135	EG 1996	96	92.06	0.38	0.010
P-4208	South County Tr.	12	Asbestos Cement	125	EG 1963	1843	1.11	0.01	0.000
P-4209	South County Tr.	12	Asbestos Cement	125	EG 1963	5478	-3.55	0.01	0.000
P-4210	South County Tr.	12	Asbestos Cement	125	EG 1963	512	-40.78	0.12	
P-4211	King Phillip Tr.	8	Asbestos Cement	130	EG 1970	345	35.46	0.23	0.010
P-4212	Middle Rd.	12	Asbestos Cement	125	EG 1962	2477	294.07	0.63	0.700
P-4213	Spring Valley Dr.	8	Asbestos Cement	125	EG 1968		15.96	0.10	0.010
P-4214	Pine Hill Dr.	8	Asbestos Cement	125	EG 1968	657		0.01	0.000
P-4215	Spring Valley Dr.	8	Asbestos Cement	125	EG 1968	513	12.41	0.06	- 0.000
P-4216	Spring Valley Dr.	8	Asbestos Cement	125	EG 1968	1135	0.00	0.04	0.000
P-4217	Holly Hill Ct.	6	Asbestos Cement	125	EG 1968	218	= 1.11	0.02	0.000
P-4218	Sunset Dr.	8	Asbestos Cement	125	EG 1968	1446	0.06	0.03	0.000
P-4219	Spring Valley Dr.	8	Asbestos Cement	125	EG 1968	- 5/6		0.01	0.000
P-4220	Spring Valley Dr.	8	Asbestos Cement	125	EG 1968	845	- 3.32	0.03	0.000
P-4221	Oak Dell Cir.	8	Asbestos Cement	125	EG 1968_	1468	1.44	0.01	0.000
P-4222	Spring Valley Dr.	8	Asbestos Cement	125	EG 1968				0.000
P-4223	Spring Valley Dr.	8	Asbestos Cement	125	EG 1968	704	-2.11	1 76	0.310
P-4774	Middle Rd. PRV	8	Ductile Iron	140	EG 2001	211	2/4.00	1.10	0.010
P-4226	Post Rd.	20	Asbestos Cement	125	EG 1964	287	3/1.3/	0.39	0.010
P-4227	Old Post Rd.	20	Asbestos Cement	125	EG 1964		272 0	0.30	0.010
P-4228	Grandview Dr.	20	Asbestos Cement	125	EG 1964	- 151	373.00	0.30	0.010
D 4000	Euroene St	20	Asbestos Cement	125	EG 1964	1553	<u></u>	<u>, v.se</u>	

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Label	Description	Diameter	Material	Hazen-	Notes	1 enoth (ft)	Discharge (nom)	Velocity (ft/s)	Calculated Friction Headloss (ff)
	South Biomo Rd	20		125	EG 1964	2058	370.28	0.38	0 070
P-4230	South Herce Rd.	20	Asbestos Coment	125	EG 1964	2279	368.51	0.38	0.080
P-4231	LePerce Dr.	20	Asbestos Cement	125	EG 1964	1373	366 73	0.37	0.050
P-4232	Middle Pd	20	Ashestos Cement	125	EG 1964	2174	364.96	0.37	0.080
P-4234	Kenvon Ave	20	Ashestos Cement	125	EG 1964	3078	363.19	0.37	0.110
P_4235	Kenvon Ave	20	Asbestos Cement	125	EG 1964	2001	361.41	0.37	0.070
P-4236	EG Well Station 1	12	Ductile Iron	135	EG 1997	371	1129.34	3.20	1.100
P-4237	EG Well Station 1	12	Ductile Iron	135	EG 1997	20	1129.34	3.20	0.060
P.4238	EG Well Station 1	12	Ductile Iron	135	EG 1997	20	1129.34	3.20	0.060
P 4230	Doct Rd	16	Ductile Imn	135	EG 1997	133	746.65	1.19	0.050
P 4239	Post Rd	16	Ouctile imp	135	EG 1998	337	744.88	1.19	0.110
P-4240	Post Rd.	10	Ductie Iron	135	EG 1008	1102	741 33	1 18	0.370
P-4241	Post Rd.	10	Ductile iron	125	EG 1970	239	177	0.01	0.000
P-4242	Post Rd.	12	Ductile Iron	125	EG 1997	498	0.00	0.00	0.000
P-4243	POSERO, PRV		Ductile Iron	135	EC 1007	524	0.00	0.00	0.000
P-4244	Post Rd. PRV	<u> </u>	Ductile from	195	EC 1009	1432	-1 77	0.01	0.000
P-4247	River Farm Rd.	0		130	EC 1069	596	11.02	0.08	0.000
P-4248	River Farm Rd.	8	Aspestos Cement	120	EG 1900	2002	2.00	0.00	0.000
P-4249	River Farm Rd.	8	Ductile Iron	135	EG 1995	2093	5.50	0.02	0.000
P-4250	River Farm Rd.	8	Ductile Iron	135	EG 1995	590	5.00	0.04	0.000
P-4251	Jefferson Dr.	8	Asbestos Cement	125	EG 1968	2295	4.38	0.03	0.000
P-4252	Edward Dr.	6	Aspestos Cement	125	EG 1963	669	3.12	0.04	0.000
P-4253	Sycamore Dr.	8	Asbestos Cement	125	EG 1968	537	-21.23	0.14	0.010
P-4254	Teakwood Dr.	6	Asbestos Cement	125	EG 1968	502	1.77	0.02	0.000
P-4255	Sycamore Dr.	8	Asbestos Cement	125	EG 1968	<u> 601</u>	-24.78	0.16	0.010
P-4256	Cypruss Dr.	6	Asbestos Cement	125	EG 1968	470	-1.77	0.02	0.000
P-4257	Chestnut Dr.	8	Asbestos Cement	125	EG 1968	823	-1.77	0.01	0.000
P-4258	Chestnut Dr.	8	Asbestos Cement	125	EG 1968	565	-28.33	0.18	0.020
P_4250	New Castle St	8	PVC	125	EG 1978	546	1.77	0.01	0.000
P-4260	Grandview Dr		Asbestos Cement	125	EG 1968	532	1.77	0.02	0.000
D.4261	Chestaut Dr		Aspestos Cement	125	EG 1968	1467	23.41	0.15	0.030
P+4201	Moleut Dr.	6	Ashestos Cement	125	EG 1968	1416	1.77	0.02	0.000
P-4202	trainin DA.	10	Ductile Imo	135	EG 1996	1013	13.37	0.05	0.000
P-4263	Main St.		Achectos Cement	125	EG 1968	307	-15.37	0.10	0.000
P-4264	Sycamore Dr.	<u> </u>	Asbestos Comont	125	EG 1969	516	-17 69	0.11	0.010
P-4265	Sycamore Dr.	<u> </u>	Aspestos Cernerit	125	EC 1968	2602	0.54	0.01	0.000
P-4266	Hamilton Dr.		Aspestos Cement	125	EG 1900	153	1 77	0.01	0.000
P-4267	New Castle St.	8	PVC	123	EG 1970	P47	25.77	0.01	0.080
P-4268	Grandview Dr.	6	Aspestos Cement	125	EG 1901	4770	20.11	0.28	0.000
P-4269	Post Rd.	10	Cast iron	60	EG 1880	1//6	20.11	0.00	0.000
P-4270	Chestnut Dr.	8	Asbestos Cement	125	EG 1968	709	4.09	0.03	0.000
P-4271	Chestnut Dr.	8	Asbestos Cement	125	EG 1968	566	26.95	0.17	0.010
P-4272	Post Rd.	10	Cast iron	60	EG 1886	3079	18.34	0.07	0.050
P-4273	McGraw Ct.	6	Ductile Iron	135	EG 1991	361	1.77	0.02	0.000
P-4274	Grandview Dr.	6	Asbestos Cement	125	EG 1968	404	4.82	0.05	0.000
P-4275	Misty Oak Dr.	8	Asbestos Cement	125	EG 1965	359	5.69	0.04	0.000
P-4276	Old Pest Rd	10	Cast iron	60	EG 1886	424	16.57	0.07	0.010
P-4277	Locus Dr.	6	Asbestos Cement	125	EG 1968	1019	23.67	0.27	0.080
D-4278	Post Rd	10	Ductile Iron	135	EG 1996	1638	-5.61	0.02	0.000
P 4270	Liain St	10	Ductile Iron	135	EG 1996	591	8.06	0.03	0.000
P-4279	Flipstone Ct	6	Ashestos Cement	125	EG 1968	473	1.77	0.02	0.000
P-4200	Finisone VL	8	PVC	130	EG 1984	644	27.58	0.18	0.020
P-4281	Misty Oak Dr.	0	DVC	130	FG 1984	651	24.04	0.15	0.010
P-4282	Misty Oak Dr.		PVC PVC	130	FG 1984	238	1.77	0.02	0.000
P-4283	Mullberry Ct.		Contine	i30	EC 1886	636	13.02	0.05	0.010
P-4285	Uki Post Rú.	10		405	EC 1000	219	18 11	0.21	0.020
P-4287	Grandview Dr.	6	Aspestos Cement	120	EC 1901		16.51	0.19	0.030
P-4288	Grandview Dr.	6	Aspestos Cement	120	EG 1000	040	A2 11	0.17	0.010
P-4289	Post Rd.	10	Uuctile Iron	135	EG 1990	1010	6 77	0.17	0.000 -
P-4290	Maplewood Dr.	8	Asbestos Cement	125	EG 1900	- 1020	150.65	0.04	<u></u>
P-4291	Post Rd.	10	Ductile iron	135	EG 1996		100.00	0.02	0.020
P-4292	Post Rd.	10	Ductile Iron	135	EG 1996	268	48.13	0.20	0.010
P-4293	Silverwood Dr.	6	Asbestos Cement	125	EG 1968	333	18.32	0.21	0.020
P-4294	Post Rd.	10	Ductile Iron	135	EG 1996	291	54.84	0.22	
P-4295	Hickory Dr.	8	Asbestos Cement	125	EG 1968	535	-13.26	80.0	
P-4296	Terrace Dr.	6	Asbestos Cement	125	EG 1968	1615	0.19	0.00	0.000
P-4297	Silverwood Dr.	6	Asbestos Cement	125	EG 1968	340		0.26	0.020
P-4208	Silverwood Dr	6	Asbestos Cement	125	EG 1968	399	-16.36	0.19	0.020
P-4200	Hickory Dr		Asbestos Cement	125	EG 1968	251	-1.77	0.01	0.000
1 4633	Hickory Dr	A	Asbestos Cement	125	EG 1968	352	-11.68	0.07	0.000
	Rowwood Dr		Asbestos Cement	125	EG 1968	1285	-8.13	0.09	0.010
P-4300			Achectoe Coment	120	EG 1959	1187	35.03	0.22	0.050
P-4300 P-4301	To a famous 2			400	50 1008	215	53.19	0.22	0.010
P-4300 P-4301 P-4302	Tanglewood Dr.			1.44	t Efernander				
P-4300 P-4301 P-4302 P-4303	Tanglewood Dr. Post Rd.	10	Ductile Iron	135	EG 1990	016	8 42	0.10	0.010
P-4300 P-4301 P-4302 P-4303 P-4304	Tanglewood Dr. Post Rd. Laurel Hill Rd.	0 10 6	Ductile Iron Asbestos Cement	135	EG 1960	916	8.42	0.10	0.010
P-4300 P-4301 P-4302 P-4303 P-4304 P-4306	Tanglewood Dr. Post Rd. Laurel Hill Rd. Post Rd.	8 10 6 10	Dyctile Iron Asbestos Cement Ductile Iron	135 125 135	EG 1990 EG 1960 EG 1996	916 1703	8.42 -71.59 24.83	0.10	0.010
P-4300 P-4301 P-4302 P-4303 P-4304 P-4306 P-4307	Tanglewood Dr. Post Rd. Laurel Hill Rd. Post Rd. Tanglewood Dr.	8 10 6 10 8	Ductile Iron Asbestos Cement Ductile Iron Asbestos Cement	135 125 135 120	EG 1990 EG 1990 EG 1996 EG 1959	916 1703 535	8.42 -71.59 24.83	0.10	0.010 0.070 0.010
P-4300 P-4301 P-4302 P-4303 P-4304 P-4306 P-4307 P-4308	Tanglewood Dr. Post Rd. Laurel Hill Rd. Post Rd. Tanglewood Dr. Tanglewood Dr.	8 10 6 10 8 8 8	Ductile from Asbestos Cement Ductile from Asbestos Cement Asbestos Cement	135 125 135 120 120	EG 1950 EG 1960 EG 1996 EG 1959 EG 1959	916 1703 535 473	8.42 -71.59 24.83 21.68	0.10 0.29 0.16 0.14	0.010 0.070 0.010 0.010 0.010
P-4300 P-4301 P-4302 P-4303 P-4304 P-4306 P-4307 P-4308 P-4309	Tanglewood Dr. Post Rd. Laurel Hill Rd. Post Rd. Tanglewood Dr. Tanglewood Dr. Laurel Hill Rd.	8 10 6 10 8 8 8 6	Ductile Iron Asbestos Cement Ductile Iron Asbestos Cement Asbestos Cement Asbestos Cement	135 125 135 120 120 120	EG 1950 EG 1960 EG 1996 EG 1959 EG 1959 EG 1959	916 1703 535 473 253	8.42 -71.59 24.83 21.68 6.65	0.10 0.29 0.16 0.14 0.08	0.010 0.070 0.010 0.010 0.000 0.000
P-4300 P-4301 P-4302 P-4303 P-4304 P-4306 P-4306 P-4307 P-4308 P-4309 P-4310	Tanglewood Dr. Post Rd. Laurel Hill Rd. Post Rd. Tanglewood Dr. Tanglewood Dr. Laurel Hill Rd. Laurel Hill Rd.	0 10 6 10 8 8 6 6 6	Ductile Iron Asbestos Cement Ductile Iron Asbestos Cement Asbestos Cement Asbestos Cement Asbestos Cement	135 125 135 120 120 120 125 125	EG 1950 EG 1960 EG 1996 EG 1959 EG 1959 EG 1959 EG 1959	916 1703 535 473 253 1209	8.42 -71.59 24.83 21.68 6.65 6.26	0.10 0.29 0.16 0.14 0.08 0.07	0.010 0.070 0.010 0.010 0.000 0.000

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Labei	Description	Diameter (in)	Material	Hazen- Williams C	Notes	Length (ft)	Discharge (gpm)	Velocity (ft/s)	Calculated Friction Headloss (ft
D-4312	Poet Rd	10	Ductile Imn	135	EG 1996	60	-76.91	0.31	0.000
D 4212	Tanglowood Dr	8	Ashestos Cement	125	EG 1959	509	72.13	0.46	0.080
P-4313	Trangiewood Dr.	6	Asbestos Cement	120	EG 1959	644	1.77	0.02	0.000
P-4314	Trappers Lit.	8	Asbestos Cement	120	EG 1959	957	1.77	0.01	0.000
P-4315	Tangiewood Dr.		Achadias Cement	125	EG 1968	962	-36.56	0.41	0.170
P-4316	Grandview Dr.		Asbestos Cement	125	EG 1969	502	30.26	0.34	0.060
P-4317	Granoview Dr.		Asbestos Cement	125	EC 1069	1080	68 50	0.78	0.590
P-4318	Red Oak Rd.	6	Aspestos Cement	120	EG 1900	207	26.16	0.18	0.030
P-4319	Tanglewood Dr.	8	Asbestos Cement	120	EG 1959	207	20.10	0.17	0.010
P-4320	Tanglewood Dr.	8	Asbestos Cement	120	EG 1939	299	20.00	0.40	0.030
P-4321	Main St.	10	Ductile Iron	135	EG 1996	1300	32.24	0.13	0.010
P-4322	North Gate Dr.	8	Asbestos Cement	125	EG 1969	321	65.4/	0.42	0.040
P-4323	So. Pierce Rd.	8	Ductile fron	130	EG 1983	75	52.47	0.33	0.010
P-4324	Dowling Dr.	8	Asbestos Cement	125	EG 1969	1861	36.13	0.23	0.080
P-4325	Tamarack Dr.	8	Asbestos Cement	125	EG 1969	636	58.38	0.37	0.060
P-4326	Larch Rd.	6	Asbestos Cement	125	_EG 1969	555	-51.29	0.58	0.180
P-4327	Larch Rd.	6	Asbestos Cement	125	EG 1969	1337	20.71	0.23	0.080
P.4328	Tucker St	6	Asbestos Cement	125	EG 1962	668	-7.79	0.09	0.010
P.4320	Bow St	8	Asbestos Cement	125	EG 1969	2669	27.57	0.18	0.070
P-4325	Bou St	8	Ashestos Cement	125	EG 1969	519	24.02	0.15	0.010
P-4330	Bow St.	6	Ashectos Cement	125	EG 1969	912	1.77	0.02	0:000
P 4331		0	Achaetre Comert	125	EG 1989	775	35.90	0.23	0.030
r-4332			Acheetoc Comport	125	EG 1060	1436	32.36	0.21	0.050
P-4333	lamarack Dr.	8	Asbestos Cement	120	EC 1000	350	1 1 77	0.02	0.000
P-4334	Avenger Dr.	6	Aspestos Cement	120	EC 1009			0.02	0.020
P-4335	Fairfield Ave.	6	Ductile Iron	135	EG 1998	203	-21./1	0.20	0.020
P-4336	Middle Rd.	12	Asbestos Cement	125	EG 1962	15/	203.78	1.00	0.070
P-4337	Middle Rd.	8	Ductile Iron	140	EG 2001	81	202.00	1.29	0.070
P-4338	Farifield Ave.	6	Ductile iron	135	EG 1998	254	-25.26	0.29	0.020
P-4339	Middle Rd.	8	Ductile from	140	EG 2001	417	148.38	0.95	0.190
P-4340	Crest Ridge Dr	8	Asbestos Cement	125	EG 1969	1153	51.85	0.33	0.090
D-4341	Crest Ridge Dr.	8	Asbestos Cement	125	EG 1969	676	27.38	0.17	0.020
D 4242	Enidiald Ave	6	Ouctile from	135	EG 1998	283	-28.80	0.33	0.030
P-4342	Alidela Del	12	Achestos Cement	125	EG 1962	286	272.80	0.77	0.070
P-4343	Middle Rd.	42	Achestos Comont	125	EG 1962	630	271.02	0.77	0.150
P-4344	Middle Kd.	12	Asbestos Comon	125	EG 1063	652	25.61	0.16	0.010
P-4345	Cindyann Dr.		Aspestos Cement	120	EG 1983	330	1 77	0.02	0.000
P-4346	Power St.	6	PVC	130	EG 1903	294	1 77	0.02	0.000
P-4347	Victory St.	6	Asbestos Cement	125	EG 1909	204	12.15	0.14	0.010
P-4348	Fairfield Ave.	6	Ductile Iron	135	EG 1996	200	12.15	0.14	0.010
P-4349	Bunker Hill Ln.	8	Asbestos Cement	125	EG 1964	112	23.00	0.15	0.010
P-4350	Fairfield Ave.	6	Ductile Iron	135	EG 1998	240	1.89	0.02	0.000
P-4351	Liffian St.	6	Asbestos Cement	125	EG 1962	620	8.48	0.10	0.010
P-4352	Kent Dr.	6	Asbestos Cement	125	EG 1968	1316	21.39	0.24	0.080
P-4353	Pettine St	1	Copper	70	EG 1953	583	0.12	0.03	0.010
P.4354	Overfield Rd	6	Ductile Iron	130	EG 1989	1240	4,27	0.05	0.000
D 4255	Overfield Rd		Ductile Iron	130	EG 1989	436	2.97	0.03	0.000
P-4300	the dewar Dr		Ashestos Cament	125	EG 1969	692	22.69	0.26	0.050
P-4300	Maylower Dr.	<u>e</u>	Achestos Coment	125	FG 1969	228	-9.63	0.11	0.000
P-4357	Maynower Dr.	0	Asbestos Comont	125	EG 1988	543	7.13	0.08	0.000
P-4358	Alien Ur.	- 0	Aspesios Content	120	EG 1983	328	53.05	0.34	0.030
P-4359	So. Pierce Rd.	8		130	EG 1903	334	49.50	0.32	0.020
P-4360	So. Pierce Rd.	8	Ductile Iron	130	EG 1963	450	20.00	0.02	0.050
P-4361	Kent Dr.	6	Asbestos Cement	125	EG 1908	453	29.33	0.04	0.000
P-4362	Kent Dr.	6	Asbestos Cement	125	EG 1968	1546	30.29	0.34	0.190
P-4363	Hanaford Dr.	6	Asbestos Cement	125	EG 1968	575	30.55	0.35	0.070
P-4364	Hanaford Dr.	6	Asbestos Cement	125	EG 1968	261	26.70	0.30	0.030
P-4365	Gould Pl	6	Asbestos Cement	120	EG 1958	977	-2.08	0.02	0.000
P-4366	Hanaford Dr.	6	Asbestos Cement	125	EG 1968	1156	33.39	0.38	0.170
P 4367	Middle Rd	A	Ductile Iron	140	EG 2001	114	111.58	0.71	0.030
P 4301	Minado INI.		Ductile Iron	140	EG 2001	1263	101.34	0.65	0.290
P-4308	MIQUE KD.		Acheetos Coment	120	EG 1957	1282	-8.46	0.10	0.020
P-4369	Athenton Kd.		Durdia Ima	130	FG 1983	274	83.04	0.53	0.050
P-4370	So. Pierce Rd.		Ducue IIVII	130	FG 1097	1713	48.91	0.31	0.120
P-4371	Middle Rd.			100	FC 1069	1200	1.77	0.02	0.000
P-4372	Eugene St.	Ö	Ascestos Cemera	425	EC 1002	2606	39.52	0.25	0.120
P-4373	Howland Rd.	8	Aspestos Cement	120	EG 1902	2000	20.75	0.44	0.060
P-4374	Allen Dr.	6	Asbestos Cement	125	EG 1968	328	40.00	0.44	0.000
P-4375	Grasslands Rd.	6	Ductile Iron	130	EG 1988	421	-12.06	0.14	0.010
P-4376	Howland Rd.	8	Ductile Iron	125	EG 1977	406	44.89	0.29	0.030
P-4377	Friendly Rd.	6	Ductile Iron	130	EG 1988	582	-13.85	0.16	0.020
P-4378	Nichols Ln	6	Asbestos Cement	125	EG 1968	1360	14.97	0.1/	0.000
P-4370	Alien Dr	6	Asbestos Cement	125	EG 1968	587	22.01	0.25	0.040
D.4290		6	Asbestos Cement	125	EG 1968	555	2.01	0.02	0.000
D 4204	Laudand Dd	<u> </u>	Ductile iron	125	EG 1977	597	58.08	0.37	0.060
P-4381			Ductile Imo	125	EG 1977	401	74.53	0.48	0.060
P-4382	Howland Kd.		Achaetee Comont	125	EG 1968	1370	18.22	0.21	0.070
P-4383	Wintrop Rd.		Asherita Concri	196	FG 1969	592	12.46	0.14	0.010
P-4384	Mayflower Dr.	6	ASDESIOS CEMERA	140	EC 1080	576	8.91	0.10	0.010
P-4385	Mayflower Dr.	6	Asbestos Cement	125	EG 1808	201	1 1 77	0.02	0.000
P-4386	John Alden Rd.	6	Asbestos Cement	130	EG 19/0			0.02	<u>n nnn</u>
P-4387	Cindvann Dr.	8	Aspestos Cement	125	EG 1963	1316		0.00	0.000
P_1388	Cindvana Dr.	8	Asbestos Cement	125	<u> </u>	3538	<u> </u>	<u> </u>	0.080
1 6-4300		, .							

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- [l abel	Description	Diameter	Material	Hazen- Wiillams C	Notes	Length (ft)	Discharge (gpm)	Velocity (ft/s)	Calculated Friction Headloss (ft)
ŀ	D /200	Kont Dr	R	Ashestos Comont	125	EG 1968	1576	-1.77	0.01	0.000
	P-4369	Kent Dr.	0	Asbestos Cement	125	EG 1968	621	22.85	0.15	0.010
•	P-4390	Create Pad	<u> </u>	Achertos Cament	125	EG 1969	1077	26.39	0.17	0.030
-	P-4391	Aliddia Dd	8	Ductile Imp	140	EG 2001	423	101.58	0.65	0,100
-	P-4392	Middle Rd.	- 0 -	Ductile Imn	135	EG 1997	103	3.55	0.04	0.000
ŀ	P-4393	Crossways Rd.	<u> </u>	Achectos Coment	125	EG 1960	624	-20.10	0.13	0.010
	P-4394	Maplewood Dr.	0	Asbestos Comont	125	EG 1960	1304	21.81	0.14	0.020
	P-4395	Class Do		Achestos Cement	125	EG 1960	1559	43.67	0.50	0.380
- 1	F-4396	Gienn Dr.		Ductile Imp	140	EG 2001	531	56.14	0.36	0.040
	P-4397	Middle Ru.	Q	Ductile iron	130	EG 1987	491	-23.85	0.15	0.010
	P-4398	Middle Ro.	<u> </u>	Ductile imn	130	EG 1983	2207	78.21	0.50	0.360
	P-4399	So Pierce Rd.	8	Achector Cement	125	EG 1968	265	3.55	0.04	0.000
1	P-4400	Upland Ave.	2	PV/C	125	EG 1978	393	1.77	0.18	0.050
1 san	P-4401	Opiano Ave.	<u> </u>	Achaetos Comont	125	EG 1968	313	12.99	0.15	0.010
	P-4402			Arbertos Cement	125	EG 1968	190	1.77	0.02	0.000
	P-4403	Grandwew DI.		Ductile imp	135	EG 1999	1172	-2.35	0.02	0.000
	P-4404	Cora St.	0	Ductile Iron	135	EG 1999	473	-9 44	0.06	0.000
	P-4405			Achaetae Coment	125	EG 1968	356	5.32	0.06	0.000
·***	P-4406	Laylor Gr.	6	Asbestos Cement	125	EG 1968	220	1.77	0.02	0.000
	P-4407	Taylor Ult.		Achectos Comart	125	FG 1968	192	1.77	0.02	0.000
	P-4408			Ductile Imp	130	EG 1983	620	83.21	0.53	0.110
	P-4409	So. Merce Ko.	0	DUC	125	EG 1978	198	3.55	0.36	0.100
	P-4410		2	Achestos Coment	130	EG 1970	360	-1.61	0.02	0.000
	P-4411	Phillips Ur.	2	Asbeetos Comert	130	EG 1970	347	-5.16	0.06	0.000
	P-4412		2	Asbertos Comont	125	EG 1960	1101	-1.77	0.02	0.000
	P-4413	woodland Kd.		Durfile 1000	120	FG 1988	679	1.77	0.02	0.000
	P-4414	Friendly Rd.		Achastas Camani	120	FG 1050	222	-19.17	0.22	0.010
	P-4415	Crossways Rd.	0	Asbestos Cement	125	EG 1969	1460	-6.49	0.07	0.010
	P-4416	Westwood Ur.	0	Aspestos Cement	120	EG 1955	1159	1.89	0.02	0.000
	P-4417	Wanton Shippee Ro.	0	Aspestos Cemera	120	EG 1969	475	4.71	0.05	0.000
	P-4418	Birchwood Way	0	Asbestos Cement	120	FG 1959	413	-22.83	0.26	0.030
	P-4419	Landover Ur.	6	Asbestos Cement	125	EG 1968	240	-8.26	0.09	0.000
	P-4420	Le Baron Dr.	0	Asbestos Cement	120	EG 1959	353	26.38	0.30	0.040
·	P-4421	Landover Dr.	0	Asbestos Cement	125	EG 1969	1428	7.98	0.09	0.010
	P-4422	Latayette Dr.	0	Asuesius Coment	125	EG 1989	377	10.92	0.12	0.010
	P-4423	Birchwood Way	0	Asbestos Cement	125	EG 1969	340	16.94	0.19	0.010
	P-4424	Birchwood Way	0	Asbestos Cement	125	EG 1968	94	38.34	0.44	0.020
	P-4425	Le Baron Dr.	0	Asbestos Cement	125	EG 1968	365	28.78	0.33	0.040
	P-4426	Le Baron Dr.	6	Asbestos Cement	125	EG 1969	1499	-7.79	0.09	0.010
	P-4427	Bayoerry Dr.	0	Asbestos Comort	125	EG 1962	768	1.77	0.02	0.000
	P-4428	Linioridge Dr.		Aspestos Cement	120	EG 1970	597	2.92	0.03	0.000
	P-4429	Phillips Dr.	6	Aspestos Cemeril	130	EG 1970	242	1 77	0.02	0.000
	P-4430	Coddington Ct.	0	Aspesios Cement	130	EG 1970	567	10.01	0.11	0.010
	P-4431	Phillips Dr.	0	Asbestos Cement	130	EG 1970	374	6 46	0.07	0.000
	P-4432	Phillips Dr.	6	Aspestos Cement	130	EG 1970	194	1 77	0.02	0.000
	P-4433	Country Ct.	6	Aspestos Cement	130	EG 1970	407	1.77	0.02	0.000
	P-4434	Reeds Pl.	6	Aspestos Cemera	125	EG 1903	109	0.00	0.00	0.000
	P-4435	Post Rd.	12	Ducale from	130	EG 1957	218	-28 15	0.32	0.030
	P-4436	Phillips Rd.	6	Aspestos Cement	120	EG 1954	647	-52.52	0.34	0.050
	P-4437	Cedar Ave.	8	Aspestos Cement	120	EC 1069	232	-18 02	0.20	0.010
	P-4438	Le Baron Dr.	6	Aspestos Cement	120	EG 1900		-58.13	0.37	0.060
	P-4439	Ridgefield Dr.	8	Aspestos Cement	130	EC 1074	600	1 77	0.02	0.000
	P-4440	Midlands Dr.	6	Aspestos Cement	130	EG 1074	5,40	61 67	0.39	0.060
	P-4441	Ridgefield Dr.	8	Aspesios Cement	130	EG 1080	744	1.77	0.01	0.000
	P-4442	Saran's Trace	8	Achaetae Compart	130	FG 1974	539	-65.22	0.42	0.060
	P-4443	Ridgefield Dr.	Ö	Aspesios Cement	120	FG 1987	1126	-66.99	0.43	0.140
	P-4444	Middle Kd.	- 0	Acheeter Coment	125	EG 1969	1521	-19.85	0.23	0.090
	P-4445	Baisam Dr.		Asbestos Coment	125	FG 1969	285	1.77	0.02	0.000
	P-4446	Baisam Dr.		Ashaetae Comert	125	FG 1989	583	-23.40	0.15	0.010
	P-4447	Hemiock Dr.	- Ö	Achertos Comor	120	EG 1971	286	1.77	0.02	0.000
	P-4448	Alder Ct.	0	Ashorton Comon	125	EG 1969	1014	-26.95	0.17	0.020
	P-4449	Hemlock Ur.		Achertos Coment	125	EG 1961	1351	-16.76	0.19	0.060
	P-4450	Blueberry Dr.		Acheetee Comert	125	FG 1961	870	1.77	0.02	0.000
	P-4451	Barrows Dr.	0	Achestos Coment	125	EG 1961	743	-20.31	0.23	0.040
	P-4452	Blueberry Dr.		Achectos Cament	125	EG 1960	528	-35.55	0.40	0.090
	P-4453	Dalehill Dr.		Ashastas Comort	125	EG 1962	1963	-25.28	0.16	0.040
	P-4454	Howland Rd.	- 1	Asbestos Cement	125	EG 1960	257	-37.33	0.24	0.010
	P-4455	Dalenill Dr.	0	Acheetos Coment	125	EG 1960	600	13.47	0.15	0.020
	P-4456	Daiehill Dr.		Acheetre Comort	120	EG 1959	1540	1.77	0.02	0.000
	P-4457	Oakwood Dr.		Acheetos Comert	125	EG 1969	2045	-11.96	0.08	0.010
	P-4458			Achastra Comont	120	EG 1958	803	-17.28	0.20	0.040
	P-4459	Cresthil Dr.		Achaetre Camort	120	EG 1958	457	1.77	0.02	0.000
	P-4460	Giaonoge Dr.	- 0	Acheetne Coment	120	EG 1958	479	-20.82	0.24	0.030
	P-4461	Cresthil Dr.		Ashestos Coment	125	EG 1960	574	-9.93	0.06	0.000
	P-4462	Daleniii Dr.	- 42	Achastre Cament	120	EG 1957	727	-205.67	0.58	0.110
	P-4463	UNISION ST.		Ductile imn	135	EG 1994	176	1.77	0.01	0.000
	P-4464	Green busit KG.	12	Asbestos Cement	120	EG 1957	738	-209.21	0.59	0.120
	-4465	DIVISION SL.	1	- manual manual in						

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	Label	Description	Diameter (in)	Material	Hazen- Williams C	Notes	Length (ft)	Discharge (gpm)	Velocity (ft/s)	Friction Headloss (ft)
	P-4466	Division St.	12 1	Asbestos Cement	120	EG 1957	575	-247.37	0.70	0.130
	P-4467	Sanctuary Dr.	8	Ductile Iron	140	EG 2000	1330	36.38	0.23	0.050
	P-4468	Field Stone Dr.	6	Ductile Iron	140	EG 2000	465	1.77	0.02	0.000
	P-4469	Sanctuary Dr.	8	Ductile Iron	140	EG 2000	409	32.83	0.21	0.010
1	P-4470	Deep Meadow Dr.	6	Ductile Iron	140	EG 2000	288	-14.30	0.16	0.010
	P-4471	Ivy Guarded Way	6	Ductile Iron	140	EG 2000	261	1.77	0.02	0.000
	P-4472	Sanctuary Dr.	8	Ductile Iron	140	EG 2000	418	43.59	0.28	0.020
— []	P-4473	Sanctuary Dr.	8	Ductile Iron	140	EG 2000	719	21.23	0.14	0.010
	P-4474	Sanctuary Dr.	8	Ductile Iron	140	EG 2000	761	-20.59	0.13	0.010
_	P-4475	Twin Pond Easement	8	Ductile Iron	140	EG 2000	744	40.04	0.26	0.030
· L	P-4476	Tall Pine Dr.	8	Ductile Iron	140	EG 2000	384	-10.07	0.10	0.000
-	P-4477	Cindyarın Dr.	8	Asbestos Cement	125	EG 1963	1135	-36.43	0.37	0.120
<u>.</u>	P-4478	Tall Pine Dr.	8	Aspestos Cement	130	EG 19/2	783	-11.60	0.01	0.010
	P-4479	Cindyann Dr.	8	Aspestos Cement	125	EG 1903	434	1 77	0.20	0.010
	P-4480	Apple Tree Ct.	6	Aspestos Cement	130	EG 1971	331	-51 36	0.33	0.030
	P-4481	Cindyann Dr.	- 8	Asbestos Cement	125	EG 1903	531	37.30	0.24	0.020
	P-4482	Cindyann.Dr.	<u></u>	Aspestos Cement	125	EG 1970	402	1.77	0.18	0.050
	P-4483	Greenwich Bivd.	2	Acherton Coment	130	EG 1973	1865	-15.74	0.10	0.020
-	P-4484	Red Barn Ln.	- O 	Asbestos Coment	130	EG 1976	205	1.77	0.02	0.000
	P-4465	Citiver Hill Cl.		Achectos Comont	130	FG 1973	667	-19.28	0.12	0.010
-	P-4480	Key barn Ln.		Ashestos Cement	125	EG 1962	221	-28.82	0.18	0.010
	P-4487	Hewland Rd		Achectos Cement	125	EG 1962	735	-67.92	0.43	0.100
	P 4480	Old Granewish Dr		Ashestos Cament	130	EG 1972	182	1,77	0.02	0.000
	E 4400	Old Greenwich Dr.		Ashestos Cament	130	EG 1972	179	-1.77	0.02	0.000
- F	P-4490	Old Greenwich Dr.	8	Asbestos Cement	130	EG 1972	238	1.77	0.02	0.000
H	D_4491	Twin Pood Rd	6	Asbestos Cement	125	EG 1965	775	-5.32	0.06	0.000
- I-	P 4492	Portain Dr	6	Ashestos Cement	125	EG 1964	601	-38.27	0.43	0.110
~ ⊢	P 4493	Pequip Dr	6	Asbestos Cement	125	EG 1964	972	31.18	0.35	0.130
- F	D-4495		8	Ductile Iron	135	EG 1994	272	-330.22	2.11	0.600
-	P-4497	Division St	12	Asbestos Cement	120	EG 1957	789	165,38	0.47	0.080
-	P-4498	Division St.	12	Asbestos Cement	120	EG 1957	694	124.89	0.35	0.040
ŀ	P-4499	Cedar Ave.	8	Asbestos Cement	125	EG 1966	820	33.22	0.21	0.030
`·	P-4500	Howland Farms	8	Ductile from	135	EG 1990	2310	-33.43	0.21	0.070
ŀ	P-4501	Cedar Ave.	8	Asbestos Cement	125	EG 1966	1436	64.87	0.41	0.180
F	P-4502	Dalehili Dr.	8	Asbestos Cement	125	EG 1960	778	14.44	0.09	0.010
	P-4503	Cedar Ave.	8	Ductile Iron	125	EG 1979	1065	48.66	0.31	0.080
_ [P-4504	Pricewood Dr.	6	Asbestos Cement	120	EG 1958	893	-3.55	0.04	0.000
P	P-4505	Sylvan Dr.	8	Asbestos Cement	115	EG 1949	365	-30.69	0.20	0.010
r	P-4506	Sylvan Dr.	8	Asbestos Cement	115	EG 1949	366	-29.02	0.19	0.010
T I	P-4507	Verndale Dr.	6	Asbestos Cement	115	EG 1948	1356	-3.45	0.04	0.000
1	P-4508	Brookside Dr.	6	Asbestos Cement	120	EG 1950	963	7.00	0.00	0.010
	P-4509	Brookside Dr.	6	Asbestos Cement	120	EG 1950	659	1.77	0.02	0.000
Г	P-4510	Sylvan Dr.	8	Asbestos Cement	115	EG 1949	442	37.78	0.24	0.020
[P-4511	Sylvan Dr.	8	Asbestos Cement	115	EG 1949	842	10.72	0.10	0.030
· · [P-4512	Kenson Dr.	6	Asbestos Cement	120	EG 1950	1403	.41.33	0.12	0.070
[P-4513	Sylvan Dr.	6	Asbestos Cement	120	EG 1930	294	-41.55	0.33	0.030
[P-4514	First Ave.	8	Asbestos Cement	125	EG 1907	583	8.86	0.00	0.000
<u> </u>	P-4515	First Ave.	8	Asbestos Comont	125	EG 1907	370	1.77	0.00	0.000
. [P-4516	First Ave.	8	Aspestos Cement	125	EG 190/	2/9 A94	5 21	0.03	0.000
<u> </u>	P-4517	Brisas Cir.	8	Aspestos Coment	125	EG 1907	001	1.83	0.01	0.000
[P-4518	Brisas Cir.	8	Aspestos Cement	120	EG 190/	2005	1 77	0.01	0.000
[P-4519	Brisas Cir.	8	Aspestos Cement	120	EG 190/	1024	_1 71	0.01	0.000
	P-4520	Brisas Cir.	- 8	Asbestos Coment	120	FG 1957	1417	89.90	0.26	0.050
	P-4521	Division St.	- 12	Ductile Imn	125	EG 1979	2139	81.12	0.52	0.400
	P-4523	Cedar Ave.		Ashestos Cement	125	EG 1966	2375	52.41	0.33	0.200
1	P-4524	Cedar AVe.		Ductile iron	130	EG 1987	1921	0.00	0.00	0.000
·	P-4525	Middle KG.	12	Ashestos Coment	120	EG 1957	1060	4.40	0.01	0.000
ļ	P-4526	LIVISION SL.	- 14	Asbestos Cament	115	EG 1949	1152	26.94	0,17	0.030
	P-452/	Knollwood Ave		Asbestos Cement	120	EG 1950	1670	9.32	0.11	0.020
	P 4520	Kosikeood Ave	8	Asbestos Cement	120	EG 1950	1118	5.78	0.07	0.010
	0_4520	Viminia Ave	6	Asbestos Cement	120	EG 1950	992	1,77	0.02	0.000
	D.4694	Kanvon Áve	8	Asbestos Cement	115	EG 1949	1402	15.85	0.10	0.010
	P-4031	Firet Ava	6	Cast iron	30	EG 1886	406	4.06	0.05	0.020
	P.4533	Overbrook Ln.	6	Asbestos Cement	120	EG 1955	808	23.64	0.27	0.070
	P_4524	Overbrook Ln.	6	Asbestos Cement	120	EG 1955	291	1.77	0.02	- 0.000
	P.4535	Harwood Rd.	6	Cast iron	45	EG 1932	1353	20.09	0.23	0.520
*****	P_4536	Division St.	12	Asbestos Cement	120	EG 1957	212	-21.01	0.06	
	P.4527	Division St.	12	Asbestos Cement	120	EG 1957	153	-22.78	0.06	0.000
	P_4538	Division St.	12	Asbestos Cement	120	EG 1957	898	-24.56	0.07	0.000
I	P-4539	Division St.	4	Cast iron		EG 1890	428		0.05	0.030
	P_4540	Kenvon Ava.	6	Cast iron		EG 1886	264	10.02	0.11	0.000
—	P-4541	Ledge Rd.	8	Ductile Iron	140	EG 2002	880	7.46	0.05	0.000
	P-4542	Kenvon Ave.	6	Cast iron	30	EG 1886	404	- 0.78	0.01	0.000
	P-4543	Hyland Ave.	8	Ductile Iron	140	EG 2002	634	- 5.46	0.03	0.000
	P-4544	Kenvon Ave.	6	Castiron	30	EG 1886	446	-0.44	0.07	1 0.040

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Latet Description (b) Matrix 10 2-4567 Nenor As 6 Calif 100 80 E0 100 307 17.8 0.00 0.000 2-4567 Sering 32 6 Calif 100 32 E0 100 307 17.8 0.000 2-4567 Sering 32 6 Calif 100 32 E0 100 107 12.2 0.00 0.000 2-4567 Media As 6 Calif 100 30 E0 100 12.2 0.00 0.000 2-4567 Media S 6 Calif 100 30 E0 1000 12.3 0.00 0.000 2-4557 Wed S 6 Calif 100 30 E0 1000 14.0 0.00 0.000 2-4557 Wed S 12 Auberta Cennet 130 E0 1000 14.0 0.00 0.000 2-4559 Devise S 12 Auberta Cennet 130	1		1	1						Calculated
Lates: Description (pr) Barter or Barter o		Barrad at	Diameter	88-61-1	Hazen-	Nata	I an att ifthe	Discharge	Velocity	Friction
1-523 Company Ann. 0	Label	Description	(in)	Material	wiiiiams C		202	(gpm) 12.49	(TUS) 0.14	
	P-4545	Kenyon Ave.	6	Cast Iron	30	EG 1986	003	12.40	0.14	0.100
P-464 Deck Solution 140 Exc Solution 140 Exc Solution 140 Exc Solution 140	P-4546	Spring St.	6	Cast iron	30	EG 1896	122	2.05	0.03	0.040
F-2630 Diversion Si. 6 Cart from 100 F-5630 752 5.84 0.07 0.0560 P-4501 Diversion Si. 6 Cart from 100 F6511111 101 7.1 2.24 0.00 0.000 P-4501 Diversion Si. 6 Cart from 30 F651111 101 7.1 0.000 0.000 P-4503 Diversion Si. 6 Cart from 30 F651186 9.00 0.000 0.000 P-4503 Weet Si. 6 Cart from 30 F651186 9.83 0.90 0.000 0.000 P-4509 Diversion Si. 6 Cart from 30 F651199 303 0.97 0.010 0.000 P-4509 Diversion Si. 6 Cart from 40 F651199 303 0.97 0.010 0.000 P-4509 Diversion Si. 6 Cart from 40 F6511999 303 1.93 0.97 0.010 0.000	P-4547	Spring St.	0	Ductile Imp	140	EG 2002	440	-4.03	0.03	0.000
	P-4548	Frocior Ave.	<u> </u>	Cast imp	30	EG 1886	782	5.84	0.00	0.060
	P-4049	Division St	6	Cast imn	30	EG 1886	971	2.29	0.03	0.010
P-620 Unward St. Cart Iron 39 E0 1866 460 433 0.080 0.0800 P-4530 Elsende AvA 6 Cast Iron 30 ES 1862 422 0.46 0.000 0.000 P-4551 Wries St. 6 Cast Iron 30 ES 1862 422 0.46 0.000 0.000 P-4557 Lamas St. 6 Cast Iron 30 ES 1862 422 0.42 0.000 0.000 P-4557 Lamas St. 6 Destin Iron 40 ES 1867 428 4.01 0.000 P-4559 Devision St. 12 Advetor Carnett 120 ES 186 0.83 0.23 <td< td=""><td>P-4000</td><td>Division St</td><td>12</td><td>Ashestos Cement</td><td>120</td><td>EG 1957</td><td>113</td><td>-7.81</td><td>0.02</td><td>0.000</td></td<>	P-4000	Division St	12	Ashestos Cement	120	EG 1957	113	-7.81	0.02	0.000
	P-4551	Weet St	6	Cast ima	30	EG 1886	409	8.33	0.09	0.060
P-655 Univer St. 6 Ceret train 30 EG 1988 6950 0.88 0.01 0.0000 P-6565 Spring SL. 6 Cast from 30 EG 1988 271 5.20 0.045 0.200 P-6565 Daration SL. 12 Ableatio Cameret 100 EG 1997 328 467 0.77 0.010 P-4565 Davison SL. 12 Ableatio Cameret 100 EG 1997 328 467 0.77 0.010 P-4565 Davison SL. 8 Cast from 60 EG 1990 193 45.0 0.200 P-4561 Davison SL. 8 Cast from 60 EG 1980 336 47.5 0.10 0.400 P-4665 Davison SL. 8 Cast from 60 EG 1980 336 47.5 0.10 0.200 P-4666 Davison SL. 8 Cast from 60 EG 1980 338 47.5 0.020 0.200 0.200 0.200 0.200 </td <td>P-4002</td> <td>Eldredge Ave</td> <td>8</td> <td>Ductile Iron</td> <td>140</td> <td>EG 2002</td> <td>422</td> <td>0.46</td> <td>0.00</td> <td>0.000</td>	P-4002	Eldredge Ave	8	Ductile Iron	140	EG 2002	422	0.46	0.00	0.000
P-650 West 5: 8 Cast iron 30 E0 1988 900 444 0.05 0.020 P-650 James 5: 6 Ducils iron, 140 EG 2002 271 5.20 0.06 0.020 P-650 Drivation 5: 12 Absence Camerat 100 EG 1997 120 5.80 0.04 0.000 P-650 Drivation 5: 12 Accest con 60 EG 1990 556 0.34 0.000 P-660 Drivation 5: 8 Cast con 60 EG 1990 553 0.54 0.34 0.000 P-660 Drivation 5: 6 Cast ron 60 EG 1990 553 0.50 0.000 P-660 Drivation 5: 6 Cast ron 60 EG 1990 336 0.32 0.30 0.30 0.30 0.30 0.30 0.30 0.30 0.30 0.30 0.30 0.30 0.30 0.30 0.30 0.30 0.30 0.30 <td< td=""><td>P-4554</td><td>West St</td><td>6</td><td>Cast imp</td><td>30</td><td>EG 1886</td><td>693</td><td>0.58</td><td>0.01</td><td>0.000</td></td<>	P-4554	West St	6	Cast imp	30	EG 1886	693	0.58	0.01	0.000
P-656 Spring St. 6 Cast iron 90 E011968 271 5.23 0.06 0.020 P-6557 Jaunes St. 13 Absender Carment 120 E51 197 153 0.04 0.030 P-6561 Division St. 13 Absender Carment 120 E51 199 353 0.66 0.58 0.020 P-6561 Division St. 8 Cast iron 60 E51 1990 381 28.24 0.34 0.030 P-6562 Division St. 8 Cast iron 60 E51 1990 381 28.24 0.34 0.030 P-6562 Division St. 8 Cast iron 60 E51 1990 383 27.52 0.18 0.040 P-6562 Division St. 8 Cast iron 60 E51 1990 335 3.55 0.62 0.040 0.040 0.040 0.040 0.040 0.040 0.040 0.041 0.040 0.040 0.040 0.040 0.040 0.04	P-4555	West St	6	Cast iron	30	EG 1886	500	4.04	0.05	0.020
p-453 itemes 5: 8 Decisie from 140 EE 2002 270 0.54 0.000 P-4556 Division S: 12 Adsendo Centent 120 EG 1877 136 -9.26 0.030 0.030 0.030 0.030 0.031 0.030 0.032 0.030 0.032 0.030 0.032 0.030 0.032 0.030 0.032 0.030 0.032 0.030 0.034 0.030 0.034 0.030 0.034 0.030 0.034 0.040	P-4556	Soring St	6	Cast iron	30	EG 1886	271	5.20	0.06	0.020
P-650 Division St. 12 Advector Cement 120 E0 197 158 -9.26 0.00 0.00 P-4550 Division St. 8 Cast iron 60 E0 1997 320 69.79 0.17 0.010 P-4561 Division St. 8 Cast iron 60 E0 1997 320 69.79 0.17 0.010 P-4561 Division St. 8 Cast iron 60 E0 1990 355 4.50 0.000 P-4566 Division St. 8 Cast iron 60 E0 1990 355 4.50 0.050 P-4565 Division St. 8 Cast iron 60 E0 1990 351 4.50 0.020 P-4567 Division St. 8 Cast iron 60 E0 1990 316 7.52 0.01 0.020 0.000 P-4571 Division St. 8 Doutle Iron 140 E0 2002 111 116.16 0.40 0.40 0.020 0.020	P-4557	James St	8	Ductile Iron	140	EG 2002	270	5.97	0.04	0.000
P-4500 Division S1. 12 Assession Comment 120 ED 1957 320 56.00 0.270 0.210 P-4561 Division S1. 8 Cast from 60 EO 1860 75.0 55.0 <td>P-4558</td> <td>Division St.</td> <td>12</td> <td>Asbestos Cement</td> <td>120</td> <td>EG 1957</td> <td>158</td> <td>-9.58</td> <td>0.03</td> <td>0.000</td>	P-4558	Division St.	12	Asbestos Cement	120	EG 1957	158	-9.58	0.03	0.000
P-2660 Division S1. 6 Cast iron 60 EG 1990 780 533. 0.030 P-4561 Division S1. 8 Cast iron 60 EG 1990 780 533. 0.030 0.030 P-4562 Division S1. 8 Cast iron 60 EG 1990 338 0.86 0.017 0.030 P-4562 Division S1. 8 Cast iron 60 EG 1890 338 3.55 0.011 0.010 P-4566 Division S1. 8 Cast iron 60 EG 1890 338 3.55 0.020 0.000 P-4569 Division S1. 8 Dast iron 60 EG 1890 338 3.55 0.022 0.020 P-4569 Church S1. 12 Ducite Iron 150 EG 1997 131 116 0.34 0.021 0.020 P-4572 Reador S1. 12 Ducite Iron 135 EG 1997 131 16 0.34 0.020 0.020 <td>P-4559</td> <td>Division St.</td> <td>12</td> <td>Aspestos Cement</td> <td>120</td> <td>EG 1957</td> <td>328</td> <td>-59.79</td> <td>0.17</td> <td>0.010</td>	P-4559	Division St.	12	Aspestos Cement	120	EG 1957	328	-59.79	0.17	0.010
P-4581 Division St. 8 Cast iron 60 EG 1890 31 23.82 0.34 0.030 P-4582 Division St. 8 Cast iron 60 EG 1890 381 22.88 0.18 0.040 P-4563 Division St. 8 Cast iron 60 EG 1890 388 7.75 0.18 0.040 P-4563 Division St. 8 Cast iron 60 EG 1890 335 55 0.02 0.000 P-4569 Division St. 8 Decision 140 EG 2002 1107 48.43 0.31 0.07 0.000 P-4569 Church St. 8 Doctile Iron 140 EG 2002 1107 48.43 0.020 0.000 0.000 0.000 0.000 0.021 0.046 0.022 0.020 0.021 0.046 0.021 0.020 0.021 0.020 0.021 0.020 0.021 0.020 0.021 0.020 0.021 0.024 0.024	P-4560	Division St.	8	Cast iron	60	EG 1890	530	56.60	0.36	0.200
P-658 Orivien St. 8 Cast ion 60 EG 1890 381 28.89 0.17 0.040 P-4563 Division St. 6 Cast ion 60 EG 1890 388 27.42 0.16 0.040 P-4565 Division St. 6 Cast ion 60 EG 1890 388 27.42 0.16 0.040 P-4566 Division St. 6 Cast ion 60 EG 1890 385 3.5 0.07 0.000 P-4569 Division St. 6 Decilia Ion 140 EG 2002 1117 48.43 0.31 0.027 0.000 P-4570 Church St. 8 Docilia Ion 140 EG 2002 409 3.84 0.022 0.020 P-4571 Rector St. 12 Ducilia Ion 3.5 EG 1997 131 118.16 0.24 0.020 P-4571 Rector St. 12 Ducilia Ion 3.5 EG 1996 144 1.44 0.041 0.020	P-4561	Division St.	8	Cast iron	60	EG1890	76	53.62	0.34	0.030
P-656 Division Si. 6 Cast iron 60 EG 1890 388 27.42 0.18 0.000 P-4565 Division Si. 6 Cast iron 60 EG 1890 336 27.42 0.11 0.000 P-4566 Division Si. 6 Cast iron 60 EG 1890 336 0.02 0.000 P-4566 Division Si. 6 Datition 140 EG 2022 1117 48.43 0.31 0.020 P-4560 Division Si. 8 Dactile iron 140 EG 2022 1117 118.5 0.24 0.020 P-4570 Church Si. 8 Dactile iron 140 EG 2022 1113 1116.6 0.24 0.020 P-4571 Rector Si. 12 Dactile iron 130 EG 1896 112 7.47 0.021 0.020 P-4571 Spring Si. 6 Cast iron 30 EG 1896 112 7.47 0.020 0.020 P-4577<	P-4562	Division St.	8	Cast iron	60	EG 1890	381	26.99	0.17	0.040
P-4565 Division St. 6 Cast iron 60 EG 1880 295 4.50 0.055 0.026 P-4566 Division St. 6 Cast iron 60 EG 1880 298 17.92 0.011 0.010 P-4566 Division St. 8 Cast iron 60 EG 1880 338 5.30 0.020 0.000 P-4568 Binyton St. 8 Dactis iron 160 EG 2002 421 3.86 0.022 0.000 P-4572 Rector St. 12 Ductis iron 135 EG 1997 448 146.71 0.420 0.420 0.420 P-4572 Rector St. 112 Ductis iron 30 EG 1986 477 3.40 0.28 0.400 0.000 P-4573 Spring St. 6 Cast iron 30 EG 1986 477 0.40 0.40 0.000 P-4576 Spring St. 6 Cast iron 30 EG 1986 147 1.40 0.40	P-4563	Division St.	8	Cast iron	60	EG 1890	388	27.52	0.18	0.040
P-2656 Division St. 8 Cast Iron 600 EG 1800 386 17.95 0.11 0.010 P-4566 Division St. 8 Cast Iron 600 EG 1800 316 7.97 0.050 9.000 P-4568 Bardon St. 8 Cast Iron 600 EG 1800 316 3.55 9.022 0.000 P-4568 Church St. 8 Ductite Iron 140 EG 2002 1117 48.43 0.31 0.020 P-4570 Church St. 12 Ductite Iron 135 EG 1997 113.16 0.424 0.010 P-4771 Restr St. 12 Ductite Iron 30 EG 1886 121 7.47 0.04 0.020 P-4775 Spring St. 6 Cast Iron 30 EG 1886 121 7.47 0.04 0.020 P-4776 Reyrodds St. 4 Cast Iron 30 EG 1886 121 7.47 0.04 0.020 0.020 0.020	P-4564	Division St	8	Cast iron	60	EG 1890	355	-8.50	0.05	0.000
P-266 Division St. 8 Cast ion 60 EG 1890 318 7.97 0.05 0.000 P-3667 Division St. 8 Ductia ion 140 EG 2002 469 335 3.55 0.022 0.000 P-4568 Church St. 8 Ductia ion 140 EG 2002 469 3.26 0.020 0.000 P-4570 Church St. 8 Ductia ion 140 EG 2002 429 43.46 0.24 0.020 P-4571 Restor St. 12 Ductia ion 30 EG 19864 477 7.1 0.04 0.020 P-4576 Spring St. 6 Cast ion 30 EG 19864 112 7.47 0.06 0.010 P-4576 Reynolds St. 4 Cast ion 30 EG 1986 112 7.47 0.06 0.020 P-4576 Reynolds St. 4 Cast ion 30 EG 19869 113 1.86 0.52 0.000 <tr< td=""><td>P-4565</td><td>Division St</td><td>8</td><td>Cast iron</td><td>60</td><td>EG 1890</td><td>298</td><td>17.95</td><td>0.11</td><td>0.010</td></tr<>	P-4565	Division St	8	Cast iron	60	EG 1890	298	17.95	0.11	0.010
P-4567 Divesor Si. 8 Ost time 60 EG 1800 335 3.55 0.02 0.000 P-4568 Bryders St. 8 Ductle Iron 140 EG 2002 1117 44.43 0.21 0.270 P-4570 Church St. 8 Ductle Iron 135 EG 2002 321 43.40 0.28 0.022 0.200 P-4571 Redor St. 12 Ductle Iron 135 EG 1997 546 146.71 0.42 0.440 P-4572 Retor St. 12 Ductle Iron 30 EG 1986 61 0.04 0.020 P-4574 Spring St. 6 Ceat Iron 30 EG 1986 112 9.40 0.05 0.070 P-4579 Mawney St. 4 Ceat Iron 30 EG 1986 313 1.48 0.02 0.020 P-4579 Mawney St. 4 Ceat Iron 30 EG 1986 314 1.44 0.44 0.042 0.020	P_4566	Division St	R R	Cast iron	60	EG 1890	318	7.97	0.05	0.000
Public Instant Si. B Ductis Iron 140 EG 2002 449 0.31 0.070 Pu4590 Church Si. 8 Ductis Iron 140 EG 2002 449 0.28 0.020 0.000 Pu4701 Church Si. 8 Ductis Iron 135 EG 1997 113 111.15 0.34 0.020 Pu4771 Redor St. 12 Ductis Iron 135 EG 1997 113 111.15 0.42 0.040 0.020 Pu4773 Spring St. 6 Cast Iron 30 EG 1996 112 -7.47 0.06 0.070 Pu4771 Freerdakp St. 4 Cast Iron 30 EG 1986 112 -7.47 0.06 0.070 Pu4770 Freerdakp St. 4 Cast Iron 30 EG 1986 143 1.48 0.02 0.000 Pu4781 Freerdakp St. 4 Cast Iron 30 EG 1986 1.44 0.04 0.029 Pu4573	P_4567	Division St	Ř	Cast iron	60	EG 1890	335	3.55	0.02	0.000
ip Action Obusite Name 140 E52 2020 4499 3.26 0.02 0.02 P44571 Redor St. 12 Ductile Iron 133 E50 1997 113 113.16 0.28 0.020 P44571 Redor St. 12 Ductile Iron 135 E50 1997 544 146 0.42 0.04 0.020 P44573 Spring St. 6 Cast Iron 30 E50 1997 544 146 1.04 0.040 0.020 P44574 Spring St. 6 Cast Iron 30 E50 1986 117 7.97 0.06 0.020 P44576 Reynold St. 4 Cast Iron 30 E50 1986 110 1.45 0.04 0.020 P44577 Pfendralp St. 4 Cast Iron 30 E50 1986 143 1.51 0.044 0.042 0.020 P44591 Presoda St. 12 Ductile Iron 135 E50 1986 146 146.40 0.44 0.040 <td>D_4569</td> <td>Brauton St</td> <td>8</td> <td>Ductile Iron</td> <td>140</td> <td>EG 2002</td> <td>1117</td> <td>48.43</td> <td>0.31</td> <td>0.070</td>	D_4569	Brauton St	8	Ductile Iron	140	EG 2002	1117	48.43	0.31	0.070
P-4570 Church St. B Duction 140 E 2002 221 43-00 0.83 0.020 P-4571 Rector St. 12 Duction 135 E 01997 113 116.16 0.34 0.010 P-4573 Spring St. 6 Cast ion 30 E 01996 285 -0.44 0.020 P-4575 Spring St. 6 Cast ion 30 E 01986 287 -0.44 0.020 P-4576 Reynolds St. 4 Cast ion 30 E 01986 112 -7.47 0.04 0.020 P-4576 Reynolds St. 4 Cast ion 30 E 01986 101 1.65 0.04 0.020 P-4577 Memmy St. 4 Cast ion 30 E 01986 964 103 0.44 0.020 P-4577 Memmy St. 4 Cast ion 30 E 01986 144 144.44 0.020 P-4578 Memmy St. 12 Duction	D_4680	Church St	8	Ductile Iron	140	EG 2002	409	3.26	0.02	0.000
PAST Decker St. 12 Decker inn 133 E5 1997 113 113.16 0.44 0.04 PAST2 Rector St. 12 Decker inn 30 E5 1997 54 146 0.42 0.040 PAST3 Spring St. 6 Cast inn 30 E5 1986 177 -7.47 0.04 0.020 PAST6 Spring St. 6 Cast inn 30 E5 1986 117 1.99 0.04 0.020 PAST6 Reynolds St. 4 Cast inn 30 E5 1986 117 1.99 0.05 0.027 PAST6 Reynolds St. 4 Cast inn 30 E5 1986 103 1.44 0.04 0.029 PAST6 Presont St. 12 Ducter inn 135 E5 1986 242 1.51 0.02 0.029 PASS0 Prisedsin St. 12 Ducter inn 135 E5 1986 264 0.02 0.04 0.059 0.04 0.059	D_4670	Church St	8	Ductile Iron	140	EG 2002	321	43.40	0.28	0.020
Late Deck Deck <thdeck< th=""> Deck Deck <thd< td=""><td>D_4674</td><td>Denter St</td><td>12</td><td>Ductile Imn</td><td>135</td><td>EG 1997</td><td>113</td><td>118.16</td><td>0.34</td><td>0.010</td></thd<></thdeck<>	D_4674	Denter St	12	Ductile Imn	135	EG 1997	113	118.16	0.34	0.010
Patro Toto Desk term 10 EG 1986 2485 0.49 0.01 0.000 Patro Spring St. 6 Cast torn 30 EG 1986 477 371 0.04 0.020 Patro Reynolds St. 6 Cast torn 30 EG 1986 617 1.39 0.05 0.070 Patro Reynolds St. 4 Cast torn 30 EG 1980 316 1.85 0.022 0.000 Patro Memory St. 4 Cast torn 30 EG 1986 324 1.51 0.04 0.022 0.000 Patro Prespect St. 12 Ductile fron 135 EG 1986 696 42.03 0.23 0.24 0.04 0.029 0.44 0.04 0.029 0.44 0.024 0.022 0.64 0.029 0.44 0.024 0.029 0.64 0.04 0.029 0.04 0.029 0.04 0.029 0.04 0.040 0.029 0.04 <t< td=""><td>D_4670</td><td>Renter St</td><td>12</td><td>Ductile Iron</td><td>135</td><td>EG 1997</td><td>548</td><td>146.71</td><td>0.42</td><td>0.040</td></t<>	D_4670	Renter St	12	Ductile Iron	135	EG 1997	548	146.71	0.42	0.040
Johnson Spring St. 6 Desk time 30 EG 1986 177 3.71 0.044 0.020 P-4276 Reptods St. 4 Cast iron 30 EG 1986 6112 7.74 0.06 0.010 P-4277 Friendship St. 4 Cast iron 30 EG 1980 6112 7.74 0.04 0.020 P-4577 Friendship St. 4 Cast iron 30 EG 1986 6124 1.51 0.04 0.020 P-4599 Friendship St. 4 Cast iron 30 EG 1986 666 42.03 0.23 0.010 P-4591 Prospect St. 12 Ductile iron 135 EG 1996 668 136.89 0.39 0.404 0.030 P-4593 Drebion St. 12 Ductile iron 135 EG 1996 144 145.43 0.41 0.019 P-4583 Drebion St. 12 Ductile iron 30 EG 1986 5164 6.06 0.04	D_4579	Corino St	6	Cast imn	30	EG 1886	285	-0.49	0.01	0.000
P-297 String St. 0 Cast time 30 EG 1886 112 7.47 0.08 0.010 P-4770 Friendship St. 4 Cast time 120 EG 1886 112 1.90 0.05 0.070 P-4776 Marrey St. 4 Cast time 30 EG 1886 1103 1.44 0.04 0.020 0.030 P-4576 Friendship St. 4 Cast time 30 EG 1986 324 1.51 0.04 0.020 0.03 0.03 0.010 0.44 0.04 0.020 0.023 0.021 0.04 0.022 0.010 0.44 0.030 0.04 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	P-40/3	Spring SL	3	Cast imn	30	EG 1886	477	-3.71	0.04	0.020
	P-40/4	Spring SL	6	Castimn	30	EG 1886	112	-7.47	0.08	0.010
P-390 Performance Performance <th< td=""><td>P-43/3</td><td>Bounded St</td><td>4</td><td>Cast iron</td><td>30</td><td>EG 1886</td><td>817</td><td>1.99</td><td>0.05</td><td>0.070</td></th<>	P-43/3	Bounded St	4	Cast iron	30	EG 1886	817	1.99	0.05	0.070
P-357 Mismony BL 4 Cest tren 39 E6 1988 1103 -1.44 0.04 0.059 P-4575 Friendship SL 4 Cest tren 39 E6 1986 324 1.51 0.04 0.023 P-4526 Friendship SL 12 Ductlie Iron 135 E6 1996 566 -82.03 0.23 0.010 P-4532 Sprinkog SL 12 Ductlie Iron 135 E6 1996 144 -145.43 0.41 0.010 P-4532 Sprinkog SL 12 Absetso Exement 120 E6 1986 550 -1.64 0.04 0.030 P-4535 First Ave. 6 Cest iron 30 E6 1986 376 0.00 0.00 0.000 P-4536 First Ave. 6 Cest iron 30 E6 1986 376 0.00 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	P-43/6	Edeodebio St		Ashestos Cement	120	EG 1950	318	1.85	0.02	0.000
P4376 Maximy St. 1 Caston 20 EG (1986 124 151 0.04 0.023 P4300 Prospect St. 12 Ducile iron 135 EG (1996 686 136.89 0.23 0.040 P4451 Prospect St. 12 Ducile iron 135 EG (1996 144 445.43 0.41 0.010 P44523 Spring St. 12 Ducile iron 135 EG (1996 144 445.43 0.44 0.023 P44563 Ohrston St. 12 Absenso Cement, 120 EG (1996 150 160 0.04 0.039 P44565 First Ave. 6 Cast ron 30 EG (1986 576 0.00	P-45//	Friendship St.		Caet imp	30	EG 1886	1103	1.44	0.04	0.050
P-4507 Prendbarre 3t. 12 Ductile from 135 EG 1996 696 42.03 0.23 0.040 P-4581 Prospect St. 12 Ductile from 135 EG 1996 688 430.89 0.39 0.040 P-4582 Spring St. 12 Ductile from 135 EG 1996 184 -146.43 0.41 0.050 0.39 0.040 P-4582 Spring St. 12 Abbretion Camerit 120 EG 1995 1924 296.29 0.84 0.590 P-4584 Reynolds St. 4 Cast from 30 EG 1986 576 -0.00 0.049 0.239 P-4586 First Ave. 6 Cast from 30 EG 1886 291 4.68 0.07 0.230 P-4586 Prospect St. 6 Cast from 30 EG 1886 291 4.68 0.06 0.00 0.00 0.00 0.00 0.00 0.000 0.022 0.010 0.000 0.922 <td< td=""><td>P-45/8</td><td>Mawney St.</td><td></td><td>Castimo</td><td>30</td><td>EG 1886</td><td>324</td><td>1.51</td><td>0.04</td><td>0.020</td></td<>	P-45/8	Mawney St.		Castimo	30	EG 1886	324	1.51	0.04	0.020
P4301 Prospect St. 12 Ductile from 135 EG (1996 688 136.89 0.39 0.040 P4432 Spring St. 12 Ductile from 135 EG (1996 144 445.43 0.41 0.010 P4453 Ohrston St. 12 Abuesios Cernent 120 EG (1996 144 445.43 0.44 0.039 P4454 Reynolds St. 4 Cast from 30 EG (1996 294 40.04 0.040 0.039 P4456 First Ave. 6 Cast from 30 EG (1986 570 0.000 0.000 0.000 P4456 First Ave. 6 Cast from 30 EG (1986 576 0.00 0.000 0.000 0.000 P4561 Prist Ave. 6 Cast from 30 EG (1986 576 0.031 0.04 0.039 P4563 First Ave. 6 Cast from 30 EG (1986 340 71.3 0.04 0.039<	P-45/9	Prendsnip St.		Ductile Icon	135	EG 1996	596	-82.03	0.23	0.010
P4881 Prospect St. 12 Dockie from 123 EG 1996 144 1-145.43 0.41 0.0190 P4882 Division St. 12 Abbeelos Cament, 1230 EG 1996 1924 206.29 0.84 0.990 P4584 Reynolds St. 4 Cast iron 30 EG 1886 250 1.64 0.04 0.390 P4584 Reynolds St. 4 Cast iron 30 EG 1886 254 4.06 0.02 0.040 P4586 First Ave. 6 Cast iron 30 EG 1886 251 4.68 0.05 0.00 0.00 0.00 P4587 Mawney St. 4 Cast iron 30 EG 1886 578 0.00 0.00 0.000 P4589 Prisset St. 12 Ductile iron 135 EG 1986 578 3.72 0.04 0.030 P4591 Cliff St. 12 Ductile iron 135 EG 1986 596 79.19 0.22 0.010<	P-4580	Prospect St.	12	Ductile imn	135	EG 1996	688	-136.89	0.39	0.040
P-4562 Spiring St. 12 Abbello Screment 120 EG 1957 1924 208 29 0.84 0.930 P-4563 Division St. 12 Abbello Screment 130 EG 1957 1924 208 29 0.84 0.030 P-4565 First Ave. 6 Cast iron 30 EG 1866 2560 -1.64 0.04 0.030 P-4567 Mavney St. 4 Cast iron 30 EG 1866 316 6.45 0.07 0.030 P-4568 First Ave. 6 Cast iron 30 EG 1866 291 4.68 0.021 0.040 0.000 0.000 0.040 0.000 0.040 0.000 0.040 0.000 0.040 0.001 0.040 0.022 0.010 0.022 0.010 0.022 0.010 0.022 0.010 0.022 0.010 0.022 0.010 0.022 0.010 0.022 0.010 0.022 0.010 0.022 0.010 0.022 0.010 0.0	P-4581	Prospect St.	12	Ductile Imp	135	EG 1996	144	-145.43	0.41	0.010
P+4584 Division St. 12 Association St. 12 Association St. 12 Association St. 12 Association St. 12 13 13 14 10 12 12 12 13 13 16 135 13 14 10 12 12 12 12 12 12 12 12 13	P-4562	Spring St.		Ashadas Comtat	120	EG 1957	1924	296.29	0.84	0.590
P-4584 Heyricols St. 4 Cast ron 30 EG 1886 294 8.06 0.09 0.040 P-4586 First Ave. 6 Cast ron 30 EG 1886 316 6.45 0.07 0.030 P-4587 Maxmay St. 4 Cast ron 30 EG 1886 578 0.00 0.00 0.000 P-4587 Maxmay St. 4 Cast ron 30 EG 1886 578 0.00 0.00 0.020 P-4588 First Ave. 6 Cast ron 30 EG 1846 693 -0.81 0.01 0.000 P-4590 First Ave. 6 Cast ron 30 EG 1866 978 3.72 0.04 0.030 P-4591 Chif'St. 12 Ductile Iron 135 EG 1996 596 -719 0.22 0.010 P-4592 Friendwip St. 12 Ductile Iron 135 EG 1996 590 6.71 0.030 0.020 P-4592	P-4583	Division St.	14	Astesios Cement	20	EG 1886	550	-1 64	0.04	0.030
P+4585 Frist Ave. 6 Cast fron 30 ED 1000 217 24.4 0.07 0.030 P+4586 First Ave. 6 Cast fron 30 EG 1886 376 0.00 0.00 0.00 0.00 0.000 P+4588 First Ave. 6 Cast fron 30 EG 1886 291 4.68 0.01 0.020 P-4589 Prospect St. 6 Cast fron 30 EG 1886 978 3.72 0.04 0.030 P-4593 Friend Ave. 6 Cast fron 30 EG 1886 974 40.96 0.23 0.020 P-4592 Friend Ave. 6 Cast fron 30 EG 1986 340 7.13 0.08 0.040 P-4593 Friend Ave. 6 Cast fron 30 EG 1986 340 7.13 0.08 0.020 P-4595 Main St. 10 Ductile fron 135 EG 1996 569 0.04 0.000 </td <td>P-4584</td> <td>Reynolds St.</td> <td>4</td> <td>Cast iron</td> <td>30</td> <td>EG 1886</td> <td>204</td> <td>-1.0-</td> <td>0.09</td> <td>0.040</td>	P-4584	Reynolds St.	4	Cast iron	30	EG 1886	204	-1.0-	0.09	0.040
P-4586 First Ave. 6 Cast ron 30 E01 886 303 0.00 0.000 0.000 P-4587 Mawney St. 4 Cast ron 30 E01 886 578 0.000 0.000 0.000 P-4589 Prospect St. 6 Cast ron 30 E01 886 291 4.68 0.021 0.000 P-4590 First Ave. 6 Cast ron 30 E01 886 978 3.72 0.04 0.030 P-4591 Cliff St. 12 Ductile fron 135 E01 996 596 -79.19 0.22 0.010 P-4592 Friendstip St. 12 Ductile fron 135 E01 996 590 6.71 0.03 0.020 P-4593 First Ave. 6 Cast ron 30 E01 996 590 6.71 0.03 0.020 P-4596 Main St. 10 Ductile fron 140 E02 002 365 6.60 0.044 0.000 P-4	P-4585	First Ave.	6	Castiron	30	EG 1996	244	6.45	0.07	0.030
P-4587 Mawney St. 4 Cast from 30 Explosion 20.00	P-4586	First Ave.	6	Cast iron	30	EG 1000	578	0.40	0.00	0.000
P-4588 First Ave. 0 Case from 115 EG 1984 603 0.01 0.000 P-4590 First Ave. 6 Case from 30 EG 1986 978 3.72 0.04 0.030 P-4591 Cliff St. 12 Ductile Iron 135 EG 1986 974 80.086 0.23 0.020 P-4592 Firendship St. 12 Ductile Iron 135 EG 1986 974 80.086 0.23 0.020 P-4592 Firendship St. 12 Ductile Iron 135 EG 1996 590 6.71 0.03 0.040 P-4593 Wins St. 8 Ductile Iron 140 EG 2002 366 6.08 0.044 0.000 P-4596 Main St. 10 Ductile Iron 140 EG 2002 367 5.69 0.044 0.000 P-4596 Greenes St. 8 Ductile Iron 140 EG 2002 429 51.53 0.33 0.030 P-460	P-4587	Mawney St.	4	Cast ron	30	EG 1886	201	4.68	0.05	0.020
P-4580 Prospect St. 6 Assesso Lement 110 CS 1948 003	P-4588	First Ave.	6	Castiron	30	EG 1000	291	-0.81	0.00	0.000
P-4590 Frist Ave. b Cask ron 30 EG 1096 506 70.19 0.22 0.010 P-4591 Cliff St. 12 Ductile iron 135 EG 1996 576 -77.19 0.22 0.020 P-4592 Friendship St. 12 Ductile iron 135 EG 1996 590 6.71 0.03 0.040 P-4593 First Ave. 6 Cast ron 30 EG 1996 590 6.71 0.03 0.000 P-4596 Main St. 10 Ductile iron 140 EG 2002 356 6.08 0.04 0.000 P-4596 Marborough St. 8 Ductile iron 140 EG 2002 285 13.15 0.08 0.000 P-4596 Greene St. 8 Ductile iron 140 EG 2002 425 -51.53 0.33 0.030 P-4596 Greene St. 12 Ductile iron 140 EG 1997 245 292.75 0.83 0.060 <	P-4589	Prospect St.	- 6	Aspestos Cement		EG 1949	079	3.72	0.04	0.030
P-4591 Cliff St. 12 Ductive from 135 Ed 1996 974 30.06 0.23 0.020 P-4593 First Ave, 6 Cast iron 30 EG 1986 340 7.13 0.08 0.23 0.020 P-4593 First Ave, 6 Cast iron 30 EG 1986 340 7.13 0.08 0.040 P-4593 Vine St. 8 Ductile Iron 140 EG 2002 356 6.08 0.04 0.000 P-4595 Mariborough St. 8 Ductile Iron 140 EG 2002 356 6.08 0.04 0.000 P-4596 Mariborough St. 8 Ductile Iron 140 EG 2002 285 13.15 0.08 0.000 P-4596 Greene St. 8 Ductile Iron 135 EG 1996 251 -12.14 0.05 0.030 P-4500 Greene St. 8 Ductile Iron 135 EG 1997 944 -17.2.81 0.49 0.0	P-4590	First Ave.	<u> </u>		105	EG 1000	506	.79.19	0.22	0.010
P-4592 Friendstip St. 12 Ductile iron 133 Ext and stress 974. 50.0 974. 50.0 67.13 0.08 0.040 P-4593 First Ave. 6 Cast fron 30 EG 1996 590 6.71 0.03 0.040 P-4595 Vine St. 8 Ductile Iron 140 EG 2002 367 5.69 0.04 0.000 P-4596 Marborough St. 8 Ductile Iron 140 EG 2002 367 5.69 0.04 0.000 P-4596 Marborough St. 10 Ductile Iron 140 EG 2002 285 13.15 0.06 0.000 P-4599 Greene St. 8 Ductile Iron 130 EG 1997 994 -172.81 0.49 0.090 P-4600 Greene St. 12 Ductile Iron 135 EG 1997 994 -172.81 0.49 0.090 P-4602 Division St. 12 Ductile Iron 135 EG 1997 694<	P-4591	Cliff St.	12	Ductile Iron	130	EG 1990	074	-90.96	0.23	0.020
P-4593 First Ave. 6 Cast ron 30 EG 1686 540 7.13 50.00 P-4594 Main St. 10 Ductile iron 140 EG 1996 590 6.71 0.03 0.000 P-4595 Vine St. 8 Ductile iron 140 EG 2002 356 6.08 0.04 0.000 P-4596 Mainborough St. 8 Ductile iron 140 EG 2002 357 5.69 0.04 0.000 P-4596 Main St. 10 Ductile iron 140 EG 2002 285 13.15 0.08 0.000 P-4596 Main St. 10 Ductile iron 135 EG 1997 251.3 0.33 0.49	P-4592	Friendship St.	12	Ductile Iron	135	EG 1990	3/4	7 13	0.23	0.020
P-4594 Main St. 10 Luctate iron 130 EG 1996 390 6.71 0.03 0.000 P-4595 Vine St. 8 Ductile iron 140 EG 2002 356 6.08 0.04 0.000 P-4596 Mariborough St. 8 Ductile iron 140 EG 2002 285 13.15 0.08 0.040 0.000 P-4596 Mariborough St. 8 Ductile iron 140 EG 2002 285 13.15 0.08 0.000 P-4599 Greene St. 8 Ductile iron 140 EG 2002 429 -51.53 0.33 0.030 P-4600 Greene St. 12 Ductile iron 140 EG 2002 429 -51.53 0.33 0.030 P-4601 Rector St. 12 Ductile iron 140 EG 1997 636 1.77 0.01 0.000 P-4602 Division St. 12 Ductile iron 140 EG 1997 2436 .292.75 0.83	P-4593	First Ave.	6	Cast iron	30	EG 1000	540	6.74	0.00	0.000
P-4595 Vine St. 6 Lucure iron 140 EG 2002 350 0.08 0.08 0.000 P-4596 Martborough St. 8 Ductile iron 140 EG 2002 285 13.15 0.08 0.000 P-4597 Bridge St. 8 Ductile iron 140 EG 2002 285 13.15 0.08 0.000 P-4596 Main St. 10 Ductile iron 140 EG 2002 429 51.53 0.33 0.030 P-4500 Greene St. 8 Ductile iron 140 EG 2002 429 51.53 0.33 0.030 P-4601 Rector St. 12 Ductile iron 135 EG 1997 944 172.81 0.49 0.090 P-4603 Rector St. 12 Absetso Cement 120 EG 1997 245 292.75 0.83 0.060 P-4604 Liberty St. 8 Ductile iron 135 EG 1997 245 292.75 0.83 0.060	P-4594	Main St.	10	Ductile Iron	130	EØ 1990	086	6.08	0.00	0.000
P-4596 Marborough St. 6 Ductile Iron 140 ECS 4012 307 3.39 0.08 0.000 P-4597 Bridge St. 8 Ductile Iron 140 EG 2002 225 13.15 0.08 0.000 P-4598 Greene St. 8 Ductile Iron 140 EG 2002 429 -51.53 0.33 0.030 P-4506 Greene St. 8 Ductile Iron 140 EG 2002 429 -51.53 0.33 0.030 P-4601 Rector St. 12 Ductile Iron 135 EG 1997 994 -172.81 0.49 0.090 P-4601 Rector St. 12 Ductile Iron 135 EG 1997 994 -172.81 0.49 0.090 P-4602 Division St. 12 Ductile Iron 135 EG 1997 245 -292.75 0.83 0.060 P-4604 Liberty St. 8 Ductile Iron 130 EG 1886 960 -6.77 0.08 0.100 </td <td>P-4595</td> <td>Vine St.</td> <td>8</td> <td>Ductile Iron</td> <td>140</td> <td>EG 2002</td> <td>300</td> <td>00.0</td> <td>0.04</td> <td>0.000</td>	P-4595	Vine St.	8	Ductile Iron	140	EG 2002	300	00.0	0.04	0.000
P-4597 Bridge St. 8 Ductie Iron 140 EG.2002 2650 13.12 0.06 0.000 P-4598 Greene St. 8 Ductie Iron 140 EG.2002 429 -51.53 0.33 0.030 P-4598 Greene St. 8 Ductie Iron 140 EG.2002 429 -51.53 0.33 0.030 P-4600 Greene St. 8 Ductie Iron 140 EG.2002 899 -53.09 0.34 0.060 P-4601 Rector St. 12 Ductie Iron 135 EG.1997 994 -172.81 0.049 0.090 P-4602 Division St. 12 Absetos Cement 120 EG 1997 245 -292.75 0.83 0.060 P-4603 Rector St. 12 Ductie Iron 135 EG 1997 245 -292.75 0.83 0.060 P-4604 Liberty St. 8 Ductie Iron 130 EG 1886 960 -1.41 0.00 0.000	P-4596	Mariborough St.	8	Ducole iron	140	EG 2002	30/	13.05	0.04	0.000
P-4598 Main St. 10 Ductle iron 135 EG 1997 231 -11.14 0.03 0.033 P-4599 Greene St. 8 Ductle iron 140 EG 2002 429 -51.5 0.33 0.033 P-4600 Greene St. 12 Ductle iron 140 EG 2002 899 -53.09 0.34 0.060 P-4601 Rector St. 12 Ductle iron 135 EG 1997 944 -172.81 0.49 0.090 P-4603 Rector St. 12 Asbestos Cement 120 EG 1997 245 -292.75 0.83 0.060 P-4603 Rector St. 12 Ductle iron 135 EG 1997 245 -292.75 0.83 0.000 P-4604 Liberty St. 8 Ductle iron 130 EG 1986 960 -6.77 0.08 0.000 P-4605 Spring St. 6 Cast iron 30 EG 1986 366 -1.44 0.02 0.000	P-4597	Bridge St.	8	Ducole Iron	140	EG 4004	200	12.13	0.05	0.000
P-4599 Greene St. 0 Ductile iron 140 EX 2002 7423 01.05 0.000 P-4600 Greene St. 8 Ductile iron 140 EG 2002 999 -53.09 0.34 0.060 P-4601 Rector St. 12 Ductile iron 135 EG 1997 994 -172.81 0.49 0.090 P-4602 Division St. 12 Asbestos Cement 120 EG 1997 636 1.77 0.01 0.000 P-4603 Rector St. 12 Ductile iron 135 EG 1997 245 -292.75 0.83 0.060 P-4604 Liberty St. 8 Ductile iron 140 EG 2002 996 -0.21 0.00 0.000 P-4605 Spring St. 6 Cast iron 30 EG 1886 366 -1.44 0.02 0.000 P-4606 Pierce St. 6 Cast iron 30 EG 1886 301 6.58 0.07 0.030 0.30	P-4598	Main St.	10	Ducole Iron	130	EG 1990	420	51 53	0.33	0.030
P-4600 Greene St. 5 Ductive from 140 E.G 2002 033 0.049 0.099 P-4601 Rector St. 12 Ductive from 135 EG 1997 994 -172.81 0.049 0.090 P-4602 Division St. 12 Asbestos Cement 120 EG 1957 636 1.77 0.01 0.000 P-4603 Rector St. 12 Ductive from 135 EG 1997 245 -292.75 0.83 0.060 P-4604 Liberty St. 8 Ductive from 140 EG 2002 996 -0.21 0.00 0.000 P-4605 Spring St. 6 Cast iron 30 EG 1986 366 1.44 0.02 0.000 P-4606 Pierce St. 6 Cast iron 30 EG 1986 301 6.58 0.07 0.030 P-4608 Pierce St. 6 Cast iron 30 EG 1886 301 6.58 0.01 0.000 P-4610	P-4599	Greene St.		Ductile Iron	140	EG 2002	800	-53.09	0.34	0.060
P-4601 Rector St. 12 Ducuse non 133 ECS 1897 122.1 0.01 0.000 P-4602 Division St. 12 Asbestos Cement 120 EG 1997 245 -292.75 0.83 0.060 P-4603 Rector St. 12 Ductile iron 135 EG 1997 245 -292.75 0.83 0.060 P-4604 Liberty St. 8 Ductile iron 140 EG 2002 996 -0.21 0.00 0.000 P-4605 Spring St. 6 Cast iron 30 EG 1886 980 -1.44 0.02 0.000 P-4607 Dedford St. 6 Cast iron 30 EG 1886 301 6.58 0.07 0.030 P-4608 Pierce St. 6 Asbestos Cement 115 EG 1886 301 6.58 0.07 0.030 P-4608 Pierce St. 6 Asbestos Cement 115 EG 1886 792 -1.21 0.03 0.030	P-4600	Greene St.	8	Ductile from	140	EG 1007	000	-172.81	0.49	0.090
P-4602 Division St. 12 Aspestos Cement 120 Ex 1507 0.50 111 0.01 0.080 P-4603 Rector St. 12 Ductile Iron 135 EG 1997 245 -292.75 0.83 0.060 P-4604 Liberty St. 8 Ductile Iron 140 EG 2002 996 -0.21 0.00 0.000 P-4605 Spring St. 6 Cast iron 30 EG 1886 960 -6.77 0.08 0.100 P-4606 Pierce St. 6 Cast iron 30 EG 1886 306 -1.44 0.02 0.000 P-4607 Dedford St. 6 Cast iron 30 EG 1886 301 6.58 0.07 0.030 P-4609 Revolution St. 6 Asbestos Cement 115 EG 1844 455 0.56 0.01 0.000 P-4610 Marion St. 4 Cast iron 30 EG 1886 792 -1.21 0.03 0.040 <	P-4601	Rector St.	12	Ducile Iron	130	EC 1057	628	1 77	0.01	0.000
P-4603 Rector St. 12 Ductile iron 135 EG 1977 245 228.79 0.035 0.000 P-4604 Liberty St. 8 Ductile iron 140 EG 2002 966 -0.21 0.000 0.000 P-4605 Spring St. 6 Cast iron 30 EG 1886 960 -6.77 0.08 0.100 P-4606 Pierce St. 6 Cast iron 30 EG 1886 366 -1.44 0.02 0.000 P-4606 Pierce St. 6 Cast iron 30 EG 1886 366 -1.44 0.02 0.000 P-4608 Pierce St. 6 Cast iron 30 EG 1886 301 6.56 0.01 0.000 P-4609 Revolution St. 6 Cast iron 30 EG 1886 792 -1.21 0.03 0.030 P-4610 Marin St. 6 Cast iron 30 EG 1886 813 -19.66 0.13 0.040 <td< td=""><td>P-4602</td><td>Division St.</td><td>12</td><td>Aspestos Cement</td><td>120</td><td>EG 1907</td><td>246</td><td>-702 76</td><td>0.83</td><td>0.060</td></td<>	P-4602	Division St.	12	Aspestos Cement	120	EG 1907	246	-702 76	0.83	0.060
P-4604 Liberty St. 8 Ductile iron 140 EG 2002 950 -0.21 0.000 P-4605 Spring St. 6 Cast iron 30 EG 1886 960 -6.77 0.08 0.100 P-4606 Pierce St. 6 Cast iron 30 EG 1886 960 -1.44 0.02 0.000 P-4607 Dedford St. 6 Asbestos Cement 130 EG 1886 301 6.58 0.07 0.030 P-4608 Pierce St. 6 Cast iron 30 EG 1886 301 6.58 0.07 0.030 P-4608 Revolution St. 6 Cast iron 30 EG 1886 301 6.58 0.07 0.030 P-4610 Marion St. 4 Cast iron 30 EG 1886 792 -1.21 0.03 0.030 P-4611 Pierce St. 6 Cast iron 30 EG 1886 813 -19.66 0.13 0.040 P-4612 <t< td=""><td>P-4603</td><td>Rector St.</td><td>12</td><td>Ductile Iron</td><td>135</td><td>EC 3003</td><td>240</td><td></td><td>0.00</td><td>0.000</td></t<>	P-4603	Rector St.	12	Ductile Iron	135	EC 3003	240		0.00	0.000
P-4605 Spring St. 6 Cast iron 30 EG 1886 366 -1.14 0.02 0.000 P-4606 Pierce St. 6 Cast iron 30 EG 1886 366 -1.14 0.02 0.000 P-4607 Dedford St. 6 Asbestos Cement 130 EG 1886 301 6.58 0.07 0.030 P-4608 Pierce St. 6 Cast iron 30 EG 1886 301 6.58 0.07 0.030 P-4609 Revolution St. 6 Asbestos Cement 115 EG 1944 455 0.56 0.01 0.030 P-4610 Marion St. 4 Cast iron 30 EG 1886 792 -1.21 0.03 0.030 P-4611 Pierce St. 6 Cast iron 30 EG 1886 813 -19.66 0.13 0.040 P-4612 Main St. 8 Cast iron 30 EG 1886 813 -19.66 0.13 0.040 <td< td=""><td>P-4604</td><td>Liberty St.</td><td>8</td><td>Ductile Iron</td><td>140</td><td>EG 2002</td><td>990 0PA</td><td></td><td>0.00</td><td>0.100</td></td<>	P-4604	Liberty St.	8	Ductile Iron	140	EG 2002	990 0PA		0.00	0.100
P-4606 Pierce St. 6 Cast iron 30 EG 1000 300 -1.44 0.02 0.000 P-4607 Dedford St. 6 Asbestos Cement 130 EG 1970 185 1.77 0.02 0.000 P-4608 Pierce St. 6 Cast iron 30 EG 1986 301 6.58 0.07 0.030 P-4608 Pierce St. 6 Asbestos Cement 115 EG 1944 455 0.56 0.01 0.000 P-4609 Revolution St. 6 Asbestos Cement 115 EG 1944 455 0.56 0.01 0.000 P-4610 Marion St. 4 Cast iron 30 EG 1886 806 4.25 0.05 0.040 P-4611 Pierce St. 6 Cast iron 30 EG 1886 813 -19.66 0.13 0.040 P-4613 King St. 12 Asbestos Cement 120 EG 1886 313 7.40 0.08 0.040 P	P-4605	Spring St.	6	Cast iron	00	EC 1000	200	-1.44	0.00	0.000
P-4607 Dedford St. 6 Aspestos Lement 130 EG 1970 163 1.17 0.02 0.030 P-4608 Pierce St. 6 Cast iron 30 EG 1886 301 6.58 0.07 0.030 P-4609 Revolution St. 6 Asbestos Cement 115 EG 1944 455 0.66 0.01 0.000 P-4610 Marion St. 4 Cast iron 30 EG 1886 792 -1.21 0.03 0.030 P-4611 Pierce St. 6 Cast iron 30 EG 1886 806 4.25 0.05 0.040 P-4612 Main St. 8 Cast iron 30 EG 1886 813 -19.66 0.13 0.040 P-4613 King St. 6 Cast iron 30 EG 1886 313 7.40 0.08 0.040 P-4614 Mariborough St. 12 Asbestos Cement 120 EG 1886 313 7.40 0.08 0.040	P-4606	Pierce St.	6	Cast iron	30	EG 1000	106	1 77	0.02	0.000
P-4608 Pierce St. 6 Cast iron 30 EG 1800 301 0.38 0.77 0.388 0.77 0.308 0.77 0.308 0.77 0.309 P.4609 Revolution St. 6 Asbestos Cement 115 EG 1844 455 0.56 0.01 0.000 P-4610 Marion St. 4 Cast iron 30 EG 1886 792 -1.21 0.03 0.030 P-4611 Pierce St. 6 Cast iron 30 EG 1886 806 4.25 0.05 0.040 P-4612 Main St. 8 Cast iron 30 EG 1886 813 -19.66 0.13 0.440 P-4613 King St. 6 Cast iron 30 EG 1886 313 7.40 0.08 0.040 P-4614 Martborough St. 12 Asbestos Cement 120 EG 1886 313 7.40 0.08 0.040 P-4614 Martborough St. 12 Asbestos Cement 120 EG	P-4607	Dedford St.	6	Aspestos Cement	130	EG 19/0	201		0.02	0.030
P-4609 Revolution St. 6 Asbestos Camerri 113 EG 1944 455 0.50 0.01 0.000 P-4610 Marion St. 4 Cast iron 30 EG 1886 792 -1.21 0.03 0.030 P-4611 Pierce St. 6 Cast iron 30 EG 1886 806 4.25 0.05 0.040 P-4612 Main St. 8 Cast iron 60 EG 1886 813 -19.66 0.13 0.040 P-4613 King St. 6 Cast iron 30 EG 1886 813 -19.66 0.13 0.040 P-4614 Martborough St. 12 Astestos Camerit 120 EG 1886 335 6.74 0.08 0.040 P-4614 Martborough St. 12 Astestos Camerit 120 EG 1886 313 7.40 0.08 0.040 P-4615 King St. 6 Cast iron 30 EG 1886 190 5.70 0.06 0.010 <	P-4608	Pierce St.	6	Cast iron	30	EG 1880	ACE	0.00	0.07	0.000
P-4610 Marion St. 4 Cast iron 30 EG 1000 7.92 -1.21 0.03 0.000 P-4611 Pierce St. 6 Cast iron 30 EG 1886 806 4.25 0.05 0.040 P-4611 Main St. 8 Cast iron 30 EG 1886 813 -1.966 0.13 0.040 P-4612 Main St. 8 Cast iron 30 EG 1886 813 -1.966 0.13 0.040 P-4613 King St. 6 Cast iron 30 EG 1886 813 -1.966 0.040 P-4614 Martborough St. 12 Asbestos Cement 120 EG 1956 824 28.22 0.08 0.000 P-4616 Duke St. 6 Cast iron 30 EG 1886 313 7.40 0.08 0.040 P-4616 Duke St. 4 Cast iron 30 EG 1886 190 5.70 0.06 0.010 P-4617 King St.<	P-4609	Revolution St.	6	Asbestos Cement	115	EG 1944	400	.1 91	0.03	0.030
P-4611 Pierce St. 6 Cast iron 30 EG 1886 813 -19.66 0.03 0.040 P-4612 Main St. 8 Cast iron 60 EG 1886 813 -19.66 0.13 0.040 P-4613 King St. 6 Cast iron 30 EG 1886 8133 -6.74 0.08 0.040 P-4613 King St. 6 Cast iron 30 EG 1886 335 6.74 0.08 0.040 P-4614 Marborough St. 12 Asbestos Cement 120 EG 1956 824 28.22 0.08 0.040 P-4615 King St. 6 Cast iron 30 EG 1886 313 7.40 0.08 0.040 P-4616 Duke St. 4 Cast iron 30 EG 1886 190 5.70 0.06 0.010 P-4616 Duke St. 6 Cast iron 30 EG 1886 190 5.70 0.06 0.010 P-4618	P-4610	Marion St.	4	Cast iron	30	EG 1886	192	4 25	0.03	0.040
P-4612 Main St. 8 Cast iron 60 EG 1886 313 -19:00 0.13 0.040 P-4613 King St. 6 Cast iron 30 EG 1886 335 6:74 0.08 0.040 P-4613 Mariborough St. 12 Asbestos Cement 120 EG 1886 313 7.40 0.08 0.040 P-4614 Mariborough St. 12 Asbestos Cement 120 EG 1886 313 7.40 0.08 0.040 P-4616 King St. 6 Cast iron 30 EG 1886 313 7.40 0.08 0.040 P-4616 Duke St. 4 Cast iron 30 EG 1886 190 5.70 0.06 0.010 P-4617 King St. 6 Cast iron 30 EG 1886 190 5.70 0.06 0.030 P-4618 King St. 6 Cast iron 30 EG 1886 170 8.47 0.02 0.010 P-4619<	P-4611	Pierce St.	6	Cast iron	30	EG 1886	000	4.45	0.03 0.12	0.040
P-4613 King St. 6 Cast iron 30 EG 1886 335 0.74 0.06 0.000 P-4614 Marborough St. 12 Asbestos Cement 120 EG 1886 824 28.22 0.08 0.000 P-4614 Marborough St. 12 Asbestos Cement 120 EG 1886 813 7.40 0.08 0.000 P-4615 King St. 6 Cast iron 30 EG 1886 313 7.40 0.08 0.040 P-4616 Duke St. 4 Cast iron 30 EG 1886 190 5.70 0.06 0.010 P-4617 King St. 6 Cast iron 30 EG 1886 190 5.70 0.06 0.010 P-4618 King St. 6 Cast iron 30 EG 1886 170 8.47 0.10 0.030 P-4619 Crop St. 4 Cast iron 30 EG 1886 323 0.69 0.02 0.010 P-4620 <td>P-4612</td> <td>Main St.</td> <td>8</td> <td>Castiron</td> <td>60</td> <td>EG 1880</td> <td>013</td> <td>R 74</td> <td>0.13</td> <td>0.040</td>	P-4612	Main St.	8	Castiron	60	EG 1880	013	R 74	0.13	0.040
P-4614 Martborough St. 12 Asbestos Cement 120 EG 1956 624 20.22 0.08 0.040 P-4615 King St. 6 Cast iron 30 EG 1886 313 7.40 0.08 0.040 P-4615 King St. 6 Cast iron 30 EG 1886 313 7.40 0.03 0.020 P-4616 Duke St. 4 Cast iron 30 EG 1886 190 5.70 0.06 0.010 P-4617 King St. 6 Cast iron 30 EG 1886 190 5.70 0.06 0.010 P-4618 King St. 6 Cast iron 30 EG 1886 170 8.47 0.10 0.030 P-4618 King St. 4 Cast iron 30 EG 1886 323 0.89 0.02 0.010 P-4619 Crop St. 4 Cast iron 30 EG 1887 54 -0.88 0.02 0.000 P-4621 <td< td=""><td>P-4613</td><td>King St.</td><td>6</td><td>Cast iron</td><td></td><td>EG 1886</td><td>335</td><td>29.22</td><td>0.00</td><td>0,000</td></td<>	P-4613	King St.	6	Cast iron		EG 1886	335	29.22	0.00	0,000
P-4615 King St. 6 Cast iron 30 EG 1886 313 7.40 0.06 0.090 P-4616 Duke St. 4 Cast iron 30 EG 1886 827 -1.23 0.03 0.020 P-4616 Duke St. 6 Cast iron 30 EG 1886 190 5.70 0.06 0.010 P-4617 King St. 6 Cast iron 30 EG 1886 190 5.70 0.06 0.010 P-4618 King St. 6 Cast iron 30 EG 1886 190 5.70 0.02 0.030 P-4618 King St. 6 Cast iron 30 EG 1886 170 8.47 0.10 0.030 P-4619 Crop St. 4 Cast iron 30 EG 1886 323 0.89 0.02 0.010 P-4620 Wine St. 4 Cast iron 30 EG 1887 54 -0.88 0.02 0.000 P-4621 Bicknell Ave.<	P-4614	Marlborough St.	12	Asbestos Cement	120	EG 1956	824	20.22	0.00	0.040
P-4616 Duke St. 4 Cast iron 30 EG 1887 527 -1.2 0.03 0.043 P-4617 King St. 6 Cast iron 30 EG 1886 190 5.70 0.06 0.010 P-4618 King St. 6 Cast iron 30 EG 1886 190 5.74 0.10 0.030 P-4618 King St. 6 Cast iron 30 EG 1886 323 0.89 0.02 0.010 P-4619 Crop St. 4 Cast iron 30 EG 1886 323 0.89 0.02 0.010 P-4620 Wine St. 4 Cast iron 30 EG 1887 54 -0.88 0.02 0.000 P-4621 Bicknell Ave. 4 Cast iron 30 EG 1890 492 -2.66 0.07 0.070	P-4615	King St.	6	Cast iron		EG 1880	013	_1 22	0.00	0.020
P-4617 King St. 6 Cast iron 30 EG 1896 150 5.70 0.00 0.001 P-4618 King St. 6 Cast iron 30 EG 1896 170 8.47 0.10 0.030 P-4619 Crop St. 4 Cast iron 30 EG 1896 323 0.89 0.02 0.010 P-4620 Wine St. 4 Cast iron 30 EG 1887 54 -0.88 0.02 0.000 P-4621 Bicknell Ave. 4 Cast iron 30 EG 1890 492 -2.66 0.07 0.070	P-4616	Duke St.	4	Cast iron	30	EG 1887	400	5 70	0.03	0.010
P-4618 King St. 6 Cast iron 30 EG 1886 170 6.47 0.10 0.030 P-4619 Crop St. 4 Cast iron 30 EG 1886 323 0.89 0.02 0.010 P-4619 Crop St. 4 Cast iron 30 EG 1886 323 0.89 0.02 0.010 P-4620 Wine St. 4 Cast iron 30 EG 1887 54 -0.88 0.02 0.000 P-4621 Bicknell Ave. 4 Cast iron 30 EG 1890 492 -2.66 0.07 0.070	P-4617	King St.	6	Cast iron		EG 1886	190		0.00	0.020
P-4619 Crop SL 4 Cast iron 30 EG 1886 323 0.09 0.02 0.010 P-4620 Wine St 4 Cast iron 30 EG 1886 54 -0.88 0.02 0.000 P-4621 Bicknell Ave. 4 Cast iron 30 EG 1890 492 -2.66 0.07 0.070	P-4618	King St.	6	Cast iron		EG 1886	1/0	0.4/	0.10	0.000
P-4620 Wine St. 4 Cast iron 30 EG 1887 54 -0.83 0.02 0.044 P-4621 Bicknell Ave. 4 Cast iron 30 EG 1890 492 -2.66 0.07 0.070	P-4619	Crop St.		Cast iron	30	EG 1886	323	0.08	0.02	0.000
P-4621 Bicknell Ave. 4 Cast iron 30 EG 1890 492 -2.06 0.07 0.070	P-4620	Wine St.	4	Cast iron		EG 1867			0.02	0.070
	P-4621	Bicknell Ave.	4	Cast iron	30	EG 1890	492	-2.00	0.07	
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_	t ahai	Description	Diameter (in)	Materiał	Hazen- Williams C	Notes	Length (ft)	Discharge (gpm)	Velocity (ft/s)	Friction Headloss (ff)
ŀ	P-4622	King St	6	Ductile iron	130	EG 1987	476	5.80	0.07	0,000
ŀ	P-4623	Main St	t ă l	Cast iron	60	EG 1886	400	22.68	0.14	0.030
	P-4624	Oueen St.	6	Cast iron	30	EG 1886	327	7.27	0.08	0.040
ŀ	P-4625	Marlborough St.	12	Asbestos Cement	140	EG 1956	693	30.66	0.09	0.000
ŀ	P-4626	Queen St.	6	Cast iron	30	EG 1886	319	8.86	0.10	0.060
ł	P-4627	Duke St.	8	Ductile Iron	140	EG 2000	174	5.15	0.03	0.000
ľ	P-4628	Duke St.	4	Cast iron	30	EG 1886	530	-1.16	0.03	0.010
_ 1	P-4629	Exchange St.	8	Ductile Iron	140	EG 2000	563	4.54	0.03	0.000
ł	P-4630	Queen St.	6	Cast iron	30	EG 1886	634	4.57	0.05	0.030
1	P-4631	Queen St.	6	Asbestos Cement	130	EG 1975	448	-1.40	0.02	0.000
	P-4632	Water St.	6	Asbestos Cement	130	EG 1972	743	-4.03	0.05	0.000
	P-4633	Main St.	8	Cast iron	60	EG 1886	258	18.09	0.12	0.010
- [P-4634	Main St.	8	Cast iron	60	EG 1886	56	-28.02	0.18	0.010
l	P-4635	London St.	6	Cast iron	30	EG 1886	348	0.33	0.00	0.000
l	P-4636	London St.	6	Cast iron	30	EG 1886	112	1 77	0.14	0.040
	P-4637	Crompton Ave. (Private)	6		130	EG 1987	325	1.11	0.02	0.000
1	P-4638	London St.	12	Aspestos Cement	120	EG 1939	530	42 56	0.13	0.000
	P-4639	Martborough St.	12	Aspestos Cement	120	EG 1930	324	42.00	0.12	0.000
	P-4640	Mariborough St.	12	Aspestos Cement	120	EG 1900	420	30.13	0.10	0.000
	P-4641	Main St.	10	Contine		EG 1990	21/	9.55	0.12	0.000
ļ	P-4642	London St.	6	Casting	30	EG 1996	178	0.00	0.10	0.030
1	P-4643	London St.		Castima	30	FG 1886	526	-2.35	0.06	0.060
	P-4644	Duke St.	- 4	Ductile lean	140	EG 2002	310	-6.76	0.04	0.000
	P-4645	Long St.	<u> </u>	Cast Imn	20	EG 1886	411	2.64	0.07	0.060
	P-4646	Looder St.	- 4	Ductile Imn	130	EG 1087	178	5.58	0.06	0,000
	P-4647	London St.	<u> </u>	Ductile Inco	140	EG 2000	228	4.67	0.03	0,000
	P 4640	LIGH SL	8	Ductile Imn	140	EG 2000	315	1.42	0.01	0.000
' -	P_46E0	Castle St	- 0	Ductile Imp	140	EG 2000	309	-0.35	0.00	0.000
	D_4664	Loop St	A	Ductile Imn	140	EG 2000	195	1.77	0.01	0.000
	P-4651		8	Ductile Iron	140	EG 2000	364	0.30	0.00	0.000
	P_4853	Lion St	8	Ductile Iron	140	EG 2000	290	1.48	0.01	0.000
	P-4854	Castle St.	8	Ductile Iron	140	EG 2000	435	-4.20	0.03	0.000
~	P-4655	Water St.	6	Ductile Iron	130	EG 1987	1566	-0.86	0.01	0.000
	P-4656	Marborouch St.	8	Ductile Iron	140	EG 2003	749	-13.54	0.09	0.000
	P-4657	Main St.	10	Ductile Iron	135	EG 1996	413	37.61	0.15	0.010
	P-4658	Union St.	8	Ductile Iron	140	EG 2002	337	-5.71	0.04	0.000
	P-4659	Marlborough St.	8	Ductile Iron	140	EG 2003	466	1.77	0.01	0.000
	P-4660	Crompton Ave.	6	Ductile Iron	130	EG 1987	2004	1.77	0.02	0.000
	P-4661	Rocky Hollow Rd.	8	Ductile Iron	140	EG 2002	488	1.77	0.01	0.000
	P-4662	First Ave.	12	Ductlie Iron	135	EG 1996	80	81.13	0.23	0.000
	P-4663	Second St.	12	Ductile Iron	135	EG 1996	1016	72.23	0.20	0.020
	P-4664	Fourth Ave.	6	Asbestos Cement	120	EG 1951	333	7.70	0.09	0.000
	P-4665	Third St.	6	Asbestos Cement	120	EG 1950	195	1.77	0.02	0.000
	P-4666	Fourth Ave.	6	PVC	130	EG 1983	1420	4.16	0.05	0.000
	P-4667	Sixth Ave.	6	Cast iron	30	EG 1890	309	1.77	0.02	0.000
	P-4668	Sixth Ave.	6	Cast iron	30	EG 1890	1276	0.61	0.01	0.000
	P-4669	Second St.	12	Ductile Iron	135	EG 1996	655	-62.76	0.18	0.010
	P-4670	Sixth Ave.	12	Ductile Iron	135	EG 1996	259	61.59	<u>U.17</u>	0.000
	P-4671	Middle Rd.	12	Steel	125	EG 2001	280	276.34	0.78	0.070
	P-4672	Middle Rd. PRV	8	Ductile Iron	140	EG 2001	301	2/4.57	1.75	0,440
	P-4673	Crompton Rd.	16	Ductile Iron	135	EG 1991	354	-78.44	0.13	0.000
	P-4674	Division St.	12	Asbestos Cement	120	EG 1957	4758	331.98	0.94	1.610
	P-4675	Division St. PRV	8	Ductile Iron	135	EG 1994	138	330.21	2.11	0.300
	P-4676	Division St.	12	Asbestos Cement	120	EG 1957	297	-328.44	0.93	0.000
	P-4678	Division St.	12	Asbestos Cement	120	EG 1957		00.0	0.00	0.000
	P-4679	Hyland Ave.	8	Ductile Iron	140	EG 2002	400	2.00	0.02	0.000
	P-4680	Proctor Ave.	8	Ductile Iron	140	EG 2002	210	-6.11	0.11	0.070
	P-4681	First Ave.	6		140	EG 2002	510	3.57	0.02	0.000
	P-4682	Proctor Ave.	8	Duccile Iron	140	EG 2002	640	4.19	0.03	0.000
	P-4683	Ektredge Ave.		Ductile Iron	140	FG 2002	309	1.96	0.01	0.000
	P-4684	Church St.	- 8	Card imp	30	FG 1996	657	-4.98	0.06	0.040
	P-4685	Pierce St.			140	FG 2002	988	67.73	0.43	0.110
	P-4686	Church St.		Cast inn	03	EG 1886	298	-29.94	0.19	0.030
	P-4687	Main St.		Ductile Imn	140	EG 2002	389	54.40	0.35	0.030
	P-4688			Cast imn	60	EG 1886	689	13.64	0.09	0.020
	P-4689	Man SL		Castimo	30	EG 1886	348	6.22	0.07	0.030
S	P-4690	Spring St.		Ductile Iron	140	EG 2002	769	-11.37	0.07	0.000
	P-4691	Lincoln St.	10	Ductile Iron	135	EG 1996	380	-1.14	0.00	0.000
	P-4692	Main SL	- IV 8	Ductile Imn	140	EG 2002	317	-9.23	0.06	0.000
	P-4693	Droge St.	- 0 R	Ductile Iron	140	EG 2002	417	6.70	0.04	0.000
	P-4694		8	Ductile Imn	140	EG 2002	380	-3.15	0.02	0.000
	P-4690		A A	Ductile iron	135	EG 1996	341	-51.95	0.33	0.020
	P 4607	Overfield R4	- 6	Ductile Iron	130	EG 1989	648	1.20	0.01	0.000
	P_409/	Overfield Rd	6	Ductile Iron	130	EG 1989	582	14.58	0.17	0.020
	P_4600	Post Rd.	10	Ductile Iron	135	EG 1996	1269	47.14	0.19	0.030
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P-4700	Crosswavs Rd.	6	Ductile Iron	135	EG 1997	342	9.84	0.11	0.000
P-4701	Division St.	12	Asbestos Cement	120	EG 1957	1019	61.10	0.17	0.020
P-4702	Division St.	12	Asbestos Cement	120	EG 1957	377	5.59	0.02	0.000
P-4703	First Ave.	8	Asbestos Cement	125	EG 1967	519	-53.73	0.34	0.050
P-4704	Ashbrook Run	8	Ductile Iron	130	EG 1989	638	1.77	0.01	0.000
P-4705	Division St.	12	Asbestos Cement	130	EG 1971	429	110.17	0.31	0.020
P-4706	Division St.	12	Asbestos Cement	130	EG 1971	4701	188.89	0.54	0.540
P-4707	Old Quaker Ln.	8	Ductile Iron	140	EG 2003	727	-80.49	0.51	0.110
P-4708	Old Quaker Ln.	10	Ductile Iron	140	EG 2003	228	-82.26	0.04	0.010
P-4709	Amtrol Fire Line	10	Asbestos Cement	125	EG 1969	315	1.//	0.01	0.000
P-4710	Quaker Ln.	20	Asbestos Cement	125	EG 1969	1925	771.93	0.79	0.270
P-4711	Quaker Ln.	20	Asbestos Cement	125	EG 1969	1005	95.81	0.70	0.110
P-4712	Amtrol Fire Line	10	Aspestos Cement	125	EG 1909	413	177	0.00	0.000
P-4713	Division St.	8		120	EG 1050	1200	18.49	0.12	0.010
P-4714	Arrownead Dr.	- 8	Aspestos Cement	130	EG 1973	107	9.22	0.06	0.000
P-4715	Arrowhead Dr		Aspestos Cement	135	EG 1999	175	7 44	0.02	0.000
P-4716	Tillinghast Rd.	12	Ducine from	135	EG 1999	1334	3 70	0.01	0.000
P-4717	Tillinghast Rd.	12	Ductile fron	135	EG 1999	333	7.50	0.05	0.000
P-4718	Arrowhead Dr.		Ductrie Iron	130	EG 1999	20	3.55	0.00	0.000
P-4719	Middle Rd.		Ductile Iron	130	EG 1093	20	1 77	0.00	0.000
P-4720	Middle Rd.	12	Ductile Iron	130	EG 1963	1079	-335.04	0.01	0.050
P-4721	Frenchtown Rd	20	Asbestos Cement	130	EG 19/0	10/0	-333.04	0.34	0.000
P-4722	Frenchtown Rd	20	Aspestos Cement	130	EG 19/0	1094	5 22	0.00	0.020
P-4723	Graham Way	8	Ductile Iron	130	EG 1989	1004	1 77	0.00	0.000
P-4724	Rhodes Way	8	Ductile Iron	140	EG 2002	529	1 77	0.01	0.000
P-4725	Graham Way	8	Ductile Iron	130	EG 1989	2011	110.00	0.01	0.000
P-4726	Middle Rd.	12	Ductile Iron	135	EG 1991	263/	117.00	0.34	0.150
P-4727	Middle Rd.	12	Asbestos Cement	130	EG 1973	1046	221.50	0.55	1 470
P-4728	Frenchtown Rd.	12	Asbestos Cement	125	EG 1964	9053	720 66	1 18	0.280
P-4730	Frenchtown Rd.	16	Ductile Iron	135	EG 1998	02/	139.00	0.82	1 500
P-4731	Frenchtown Rd.	16	Ductile Iron	135	EG 1998	695/	012.00	0.64	0.030
P-4732	Frenchtown Rd.	12	Asbestos Cement	125	EG 1964	205	4 77	0.04	0.000
P-4733	Frenchtown Rd.	12	Asbestos Cement	125	EG 1904	407	200.02	0.01	0.000
P-4734	Post Rd.	20	Ductile Iron	135	EG 1997	936	380.92	0.39	0.030
P-4735	Post Rd.	20	Asbestos Cement	125	EG 1964	/0/	3/9.14	0.09	0.030
P-4736	Post Rd.	10	Cast iron	60	EG 1886	1850	11.23	0.00	0.070
P-4737	Post Rd.	10	Cast iron	60	EG 1886	290	60.04	0.33	0.070
P-4738	Post Rd.	10	Ductile fron	135	EG 1996	812	37.04	0.23	0.020
P-4739	Post Rd.	10	Ductile Iron	135	EG 1996	362	-17.94	0.07	0.000
P-4740	Post Rd.	6	Ductile Iron	135	EG 1996	4/	•/1.30	0.01	0.020
P-4741	Shippeetown Rd.	12	Ductile Iron	140	EG 2005	923	10.67	0.03	0.000
P-4742	Shippeetown Rd.	12	Ductile Iron	140	EG	3535	0.00	0.00	0.000
P-4743	So County Tr.	12	Asbestos Cement	125	EG 1964	2124	278.95	0.79	0.040
P-4744	Lake Shore Dr.	8	Ductile Iron	140	EG (new Sun Val	K 420	13.30	0.08	0.000
P-4745	Lake Shore Dr.	8	Ductile Iron	140	EG (new Sun Val	II <u>390</u>	11.97	0.08	0.000
P-4746	Lewis Farm Rd.	8	Ductile Iron	140	EG (new Sun Val	105	10.64	0.07	0.000
P-4747	Reynolds Cir.	8	Ductile Iron	140	EG (new Sun Val	<u>470</u>	1.33	0.01	0.000
P-4748	Lewis Farm Rd.	8	Ductile Iron	140	EG (new Sun Val	II <u>595</u>	7.98	0.05	0.000
P-4749	Lewis Farm Rd.	8	Ductile Iron	140	EG (new Sun Va	180	0.65	0.04	0.000
P-4750	Fire Hydrant Line	8	Ductile Iron	140	EG (new Sun Val	<u>IK 205</u>	1.33	0.01	0.000
P-4751	Lewis Farm Rd.	8	Ductile Iron	140	EG (new Sun Va	490	3.99	0.03	0.000
P-4752	Copper Ln.	8	Ductile Iron	140	EG (new Sun Va	11 230	1.33	0.01	0.000
P-4753	Cooper Ln.	8	Ductile Iron	140	EG (new Sun Va	IN 370	1.33	0.01	0.000
P-4754	Division St.	16	Ductile Iron	135	EG 1995	1671	14.21	0.02	0.000
P-4755	Old Quaker Ln.	16	Ductile Iron	140	EG (new high se	n 2783	3.47	0.01	0.000
P-4756	Division St.	16	Ductile Iron	140	EG (new high se	n <u>492</u>	3.47	0.01	0.000
P-4757	Brooks Pharmacy	8	Ductile Iron	140	EG (Brooks Pha	<u>m 780</u>	3.4/	0.02	0.000
P-4758	Division St.	16	Ductile Iron	140	EG (new high se	<u>n 565</u>	3.4/	0.01	0.000
P-4759	Hamilton Blvd.	12	Ductile Iron	140	EG (Rocky Hill F	<u>a 150</u>	0.00	0.00	0.000
P-4760	Hamilton Blvd.	12	Ductile Iron	140	EG (Rocky Hill F	a 175	0.00	0.00	0.000
P-4761	Hamilton Blvd.	12	Ductile Iron	140	EG (Rocky Hill F	a <u>375</u>	0.00	0.00	0.000
P-4762	Hamilton Blvd.	12	Ductile Iron	140	EG (Rocky Hill F	a <u>150</u>	0.00		0.000
P-4763	Hamilton Blvd.	12	Ductile Iron	140	EG (Rocky Hill F	a 250	0.00	0.00	0.000
P-4764	Hamilton Blvd.	12	Ductile Iron	140	EG (Rocky Hill F	a 175	0.00	0.00	0.000
P-4765	Fairgrounds Way	12	Ductile fron	140	EG (Rocky Hill F	a 250	0.00	0.00	0.000
P-4766	Fairgrounds Way	12	Ductile Iron	140	EG (Rocky Hill F	a 125	0.00	0.00	0.000
P.4767	Fairgrounds Way	12	Ductile Iron	140	EG (Rocky Hill F	a 250	0.00	0.00	0.000
P.4769	Faircrounds Way	12	Ductile Iron	130	EG (Rocky Hill F	a 75	0.00	0.00	0.000
P_1760	Fairgrounds Way	12	Ductile Iron	140	EG (Rocky Hill H	a 275	0.00	0.00	0.000
P-4/09	Fairmunde Way	12	Ductile Iron	140	EG (Rocky Hill H	a 450	0.00	0.00	0.000
P 4774	Hamilton Rhud	12	Ductile Iron	140	EG (Rocky Hill I	Fa 400	0.00	0.00	0.000
P-4//1	Hamilton Blvd	12	Ductile Iron	140	EG (Rocky Hill I	Fa 375	0.00	0.00	0.000
P-4//2	Hamilton Divit.	9	Ductile Iron	140	EG (Rocky Hill I	Fa 450	0.00	0.00	0.000
P-4//3		A A	Ductile Iron	140	EG (Rocky Hill	Fa 200	0.31	0.00	0.000
P-4774	Hamilton BNO.		Ductile Iron	140	EG (Rocky Hill	Fa 175	0.00	0.00	0.000
P-4775	Hamilton Divis.		Ductile iron	140	EG (Rocky Hill	Fa 950	0.31	0.00	0.000
P-4776			Ductile Iron	140	EG (Rocky Hill	Fa 300	0.00	0.00	0.000
P-4777	Hammon Bivo.								

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Label	Description	Diameter (in)	Material	Hazen- Williams C	Notes	Length (ft)	Discharge (gpm)	Velocity (ft/s)	Friction Headloss (ft)
P-4778	Hamilton Blvd	- 8	Ductile Iron	140	EG (Rocky Hill Fa	900	0.31	0.00	0.000
P-4779	Hamilton Blvd	8	Ductile Iron	140	EG (Rocky Hill Fa	10	0.00	0.00	0.000
P-4780	Division St.	12	Asbestos Cement	130	EG 1971	788	188.89	0.54	0.090
P-4781	Brooks Pharmacy	6	Ductile Iron	140	EG (Brooks Pharm	50	0.00	0.00	0.000
P-4782	Brooks Pharmacy	6	Ductile Iron	140	EG (Brooks Pharm	720	0.00	0.00	0.000
P-4783	Brooks Pharmacy	6	Ductile Iron	140	EG (Brooks Pharm	750	0.00	0.00	0.000
P-4784	So County Tr.	12	Asbestos Cement	125	EG 1963	4605	186.99	0.53	0.560
P-4786	EG Medical Center	10	Ouctile Iron	140	EG (new)	75	3.94	0.02	0.000
P-4787	EG Medical Center	10	Ductile Iron	140	EG (new)	10	3.94	0.02	0.000
P-4788	EG Medical Center	10	Ductile Iron	140	EG (new)	25	1.97	0.01	0.000
P-4789	EG Medical Center Fire Line	8	Ductile Iron	140	EG (new)	43	1.97	0.01	0.000
P-4790	EG Medical Center Fire Line	8	Ductile Iron	140	EG (new)	400	1.57	0.01	0.000
P-4791	EG Medical Center Fire Line	8	Ductile from	140	EG (new)	400	1.97	0.05	0.000
P-4792	EG Medical Center Domestic Line	4	Ductile from	140	EG (new)	430	1.07	0.05	0.000
P-4793	EG Medical Center Domestic Line	4	Ductile Iron	140	EC (new)	300	1.97	0.05	0.000
P-4794	EG Medical Center Domestic Line	4	Ductile Iron	140	EG (new)	90	0.00	0.00	0.000
P-4795	EG Medical Center Fire Line		Ducule Iron	140	EG (new)	30	0.00	0.00	0.000
P-4796	EG Medical Center Domestic Line	4	Ductile less	140	EG (new)	55	0.00	0.00	0.000
P-4797	EG Medical Center Fire Line	- 8	Ductile Iron	140	EG (new)	120	0.99	0.01	0.000
P-4798	EG Medical Center Fire Line	0	Ductile iron	140	EG (new)	90	0.99	0.01	0.000
P-4799	EG Medical Center Fire Line	- 8	Ductile iron	140	EG (new)	35	0.99	0.01	0.000
P-4800	EG Medical Center Fire Line		Ductile tree	140	EG (new)	160	0.00	0.00	0.000
H-4801	EG Medical Center Fire Line	- 0	Ductile Ime	140	EG (new)	140	0.99	0.03	0.000
P-4802	EG Medical Center Domestic Line		Ducite Inco	140	EG (new)	150	0.99	0.03	0.000
P-4603	EG Medical Center Domestic Line		Ductile imp	135	EG 1995	175	1.77	0.02	0.000
r-4604	View St	- 0 	Ductão Imo	140	EG 2002	175	1.77	0.02	0.000
P 4005	VINE SL.	18	Ductile Imn	140	EG 2005	1085	2.79	0.00	0.000
P-4806	Middle Rd. (Middle Hollow)	12	Ductile imn	140	EG 2005	964	1.86	0.01	0.000
P-4007	Old Engra Pd. (Middle Hollow)	8	Ductile Iron	140	EG 2005	845	0.93	0.01	0.000
P-4000	Hidden Lo. (Hidden Ridge)		Ductile Iron	140	EG 2005	690	8.90	0.06	0.000
P-4009	Hidden Lo. (Hidden Ridge)	A A	Ductile Iron	140	EG 2005	185	5.34	0.03	0.000
P-4010	Hidden I.n. (Hidden Ridge)	8	Ductile fron	140	EG 2005	425	1.78	0.01	0.000
P-4812	Secret Ln. (Hidden Ridge)	8	Ductile Iron	140	EG 2005	350	1.78	0.01	0.000
P-4813	Rock Way (Hidden Ridge)	8	Ductile Iron	140	EG 2005	555	1.78	0.01	0.000
P-4814	Shippeetown Rd.	12	Ductile Iron	140	EG 2005	1375	20.22	0.06	0.000
P-4815	Beechcrest Rd. (Blueberry Hill)	8	Ductile iron	140	EG 2005	800	7.78	0.05	0.000
P-4816	Rock Way (Blueberry Hill)	8	Ductile Iron	140	EG 2005	894	3.89	0.02	0.000
P-4817	Souirrel Ln. (Green Farm)	8	Ductile Iron	140	EG 2005	608	0.73	0.00	0.000
P-4818	Sourcel Ln. (Green Farm)	8	Ductile Iron	140	EG 2005	255	2.22	0.01	0.000
P-4819	Tina Ct. (Green Farm)	8	Ductile Iron	140	EG 2005	310	-3.71	0.02	0.000
P-4820	Easement (Green Farm)	8	Ductile Iron	140	EG 2005	255	-5.93	0.04	0.000
P-4821	Tillinghast Rd.	12	Ductile Iron	135	EG 1999	1663	13.17	0.04	0.000
P-4822	Tillinghast Rd.	20	Ductile Iron	130	EG 1983	1462	-6.65	0.01	0.000
P-4823	Easement (Green Farm)	8	Ductile Iron	140	EG 2005	80	7.71	0.05	0.000
P-4824	Lenihan Rd.	8	Ductile Iron	140	EG 2002	634	20.88	0.13	0.010
P-4825	Easement (Green Farm)	8	Ductile Iron	140	EG 2005	35	0.00	0.00	0.000
P-4826	Torres Ln. (Middle Woods)	8	Ductile Iron	140	EG 2005	385	10.44	0.07	0.000
P-4827	Torres Ln. (Middle Woods)	8	Ductile Iron	140	EG 2005	665	3.48	0.02	0.000
P-4828	Hoyer Ct. (Middle Woods)	8	Ductile Iron	140	EG 2005	405	3.48	0.02	0.000
P-4829	Lovegreen Ln. (Middle Woods)	8	Ductile Iron	140	EG 2005	390	3.48	0.02	0.000
P-5000	Turmer Ave.	8	Ductile Iron	140	CRA 2003	583	-1.46	0.01	0.000
P-5001	Oriole Ave.	8	Ductile Iron	140	CRA 2003	326	-0.99	0.01	0.000
P-5002	Oriole Ave.	8	Ductile Iron	140	CRA 2003	- 313	1 40	0.00	0.000
P-5003	Angell Ave.	8	Ductile Iron	140	CRA 2003	216	0.13	0.01	0.000
P-5004	Oriole Ave.	8	Ductile Iron	140	CRA 2003	609	-2 50	0.00	0 000
P-5005	Angell Ave.	8	Ductile Iron	140	CRA 2003	200	-2.50	0.02	0.000
P-5006	Angell Ave.	8	Ductile Iron	140	CDA 2003	233	-0.84	0.01	0.000
P-5007	Harrison Ave.	8	Ductile Iron	140	CPA 2003	325	-0.58	0.00	0.000
P-5008	Harrison Ave.	8		190	CPA 1071	1476	-1.35	0.02	0.000
P-5009	Lincoln Park Ave.	<u>6</u>		1.00	CRA 2003	293	-2.53	0.02	0.000
P-5010	Offve St.	8	Ductile from	140	CRA 2003	588	4.30	0.03	0.000
P-5011	Tumer Ave.	8		140	CRA 2003	588	2.56	0.02	0.000
P-5012	Tumer Ave.		Durtile Iron	140	CRA 2003	931	-7.73	0.05	0.000
P-5013	Vinton Ave.		Durable Ima	140	CRA 2003	635	-6.59	0.04	0.000
P-5014			Dustile Imn	140	CRA 2003	356	-3.56	0.02	0.000
P-5015	Angell Ave.		Ductile Imn	140	CRA 2003	331	-2.83	0.02	0.000
P-5016	Seane Ave.		Ouctile icon	140	CRA 2003	277	-7.93	0.05	0.000
P-5017	VVNBBIOCK AVE.	D	Ductile Imo	140	CRA 2003	449	-8.01	0.05	0.000
P-5018	Seane Ave.		Ductile Imp	140	CRA 2003	290	-17.23	0.11	0.000
P-5019	Exchange SL	12	Ourtile imn	140	CRA 2002	672	23.75	0.07	0.000
P-5020	WINDUF AVB.	12	Ductile Iron	140	CRA 2002	333	10.89	0.03	0.000
P-5021		6	Asbestos Cement	110	CRA 1938	315	11.38	0.13	0.010
P-5022	Stocham St	Â	Asbestos Cement	125	CRA 1963	719	9.90	0.11	0.010
P-5023	Warren Ave	6	Asbestos Cement	110	CRA 1939	339	-18.22	0.21	0.020
D 5025	Warren Ave	6	Asbestos Cement	110	CRA 1939	488	26.64	0.30	0.060

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Label	Description	Diameter (in)	Material	Hazen- Williams C	Notes	Length (ft)	Discharge (gpm)	Velocity (ft/s)	Calculated Friction Headloss (ft)
P-5026	Allard St.	6	Asbestos Cement	110	CRA 1935	783	1.48	0.02	0.000
P-5027	Allard St.	2	Copper	70	CRA 1935	150	2.96	0.30	0.150
P-5028	Warren Ave.	6	Asbestos Cement	110	CRA 1939	322	20.72	0.24	0.020
P-5029	Loring St.	6	Asbestos Cement	120	CRA 1950	312	9.77	0.11	0.010
P-5030	Amanda St.	6	Asbestos Cement	120	CRA 1950	293	1.48	0.02	0.000
P-5031	Loring St.	6	Asbestos Cement	120	CRA 1950	327	6.81	0.08	0.000
P-5032	Ellison St.	8	Ductile Iron	140	CRA 2002	361	5.33	0.03	0.000
P-5033	Benjamin St.	6	Asbestos Cement	125	CRA 1965	348	-0.23	0.00	0.000
P-5034	Benjamin St.	6	Asbestos Cement	125	CRA 1965	326	-3.55	0.04	0.000
P-5035	Warren Ave.	6	Asbestos Cement	110	CRA 1939	569	-6.51	0.07	0.010
P-5036	Esther St.	6	Asbestos Cement	130	CRA 1974	296	1.48	0.02	0.000
P-5037	Warren Ave.	6	Asbestos Cement	110	CRA 1939	1108	1.48	0.02	0.000
P-5038	Ellison St.	8	Ductile Iron	140	CRA 2002	1622	4.08	0.03	0.000
P-5039	Amanda St.	6	Asbestos Cement	120	CRA 1950	1312	-1.84	0.02	0.000
P-5040	Amanda St.	6	Asbestos Cement	120	CRA 1950	309	4.44	0.05	0.000
P-5041	Amanda St.	6	Asbestos Cement	120	CRA 1950	118	1.48	0.02	0.000
P-5042	Amanda Ct.	6	Asbestos Cement	125	CRA 1966	313	1.48	0.02	0.000
P-5042	Wilbur Ave	12	Ductile Iron	140	CRA 2002	560	-60.68	0.17	0.010
0 5045	Oaklaun Ave	12	Ductile Imn	140	CRA 2002	736	62.16	0.18	0.010
P-3043	Old Spring Rd	12	Cast imp	70	CRA 1928	800	22.20	0.06	0.010
D 5049	Old Sories Pd	12	Cast imn	70	CRA 1928	969	20.72	0.06	0.010
T-5046	Caseway Rd.	- 14	Achaetoe Comont	115	CRA 1949	258	2,96	0.03	0.000
P-5049	Capeway Ko.		Aspesios Cement	140	CPA 2002	1016	163 20	0.46	0.080
P-5050	Oakiawn Ave.	- 12		440	CPA 2002	280	1 42	0.01	0.000
P-5051	Willow Dr.	8	Ducale Iron	140	CDA 2003	220	160 33	0.45	0.030
P-5052	Oaklawn Ave.	12		140	CRA 2002	350	1 40	0.40	0.000
P-5053	Westbrook Rd.	8	Ductile Iron	140	CRA 2003	302	1,40	0.01	0.000
P-5054	Oaklawn Ave.	12	Cast iron	70	CRA 1928	412	10.20	0.05	0.000
P-5055	Oaklawn Ave.	12	Ductile Iron	140	CRA 2003	2004	148.49	0.42	0.130
P-5056	Oaklawn Ave.	12	Ductile Iron	140	CRA 2003	334	157.37	0.45	0.020
P-5057	Fairway Dr.	8	Ductile fron	140	CRA 2003	212	5.92	0.04	0.000
P-5058	Hagen Ave.	8	Ductile Iron	140	CRA 2003	354	2.47	0.02	0.000
P-5059	Green Ct.	8	Ductile Iron	140	CRA 2003	441	0.99	0.01	0.000
P-5060	Fairway Dr.	8	Ductile Iron	140	CRA 2003	662	1.97	0.01	0.000
P-5061	Fairway Dr.	8	Ductile Iron	140	CRA 2003	177	1.48	0.01	0.000
P-5062	New London Ave.	12	Ductile Iron	140	CRA 2003	1350	147.01	0.42	0.090
P-5063	Warfield Ave.	6	Cast iron	45	CRA 1936	297	20.67	0.23	0.120
P-5064	Warfield Ave	6	Asbestos Cement	120	CRA 1953	249	31.08	0.35	0.030
P-5065	Warfield Ave	6	Asbestos Cement	120	CRA 1953	146	1.48	0.02	0.000
D 5066	Moodlava Dr	6	Ashestos Cement	120	CRA 1954	1040	28.12	0.32	0.120
P 5067	Ontario Ave	6	Ashestos Cement	120	CRA 1959	318	25.16	0.29	0.030
P-5007	Versailles St	6	Ashestos Cement	125	CRA 1969	355	19.24	0,22	0.020
P-3000	Versailles St.	<u> </u>	Achestos Cement	125	CRA 1969	624	1.48	0.02	0.000
P-3009	Versalles St.	- -	Achestos Cement	125	CRA 1969	620	4.44	0.05	0.000
P-5070	Versailes SL	6	Achectos Cement	125	CRA 1969	70	1.48	0.02	0.000
P-50/1	Versames St.		Achortos Cament	120	CRA 1957	87	1.48	0.02	0.000
P-5072	Bilarwoou Ru.		Asbestes Comont	120	CRA 1954	665	1 48	0.02	0.000
P-5073	WOODIawri Dr.		Asbestos Cement	120	CRA 1955	409	-11.89	0.13	0.010
P-5074	Brookneki Dr.		Asbestos Comont	120	CRA 1054	314	-5.84	0.07	0.000
P-5075	Gaunt Ur.	0	Aspesios Cemera	70	CDA 1056	05	1 48	0.60	0 790
P-5076	Gaunt Dr.	<u> </u>	Copper	100	CDA 1054	1057		0.10	0.010
P-5077	Manor Rd.	6	Aspestos Cement	120	004 1904	402	-0.00	0.10	0.010
P-5078	Briarwood Rd.	6	Asbestos Cement	120	UKA 1957	103	-19.29	0.22	0.010
P-5079	Briarwood Rd.	6	Asbestos Cement	120	CKA 195/	252	9.01	0.10	0.000
P-5080	Brookfield Dr.	6	Asbestos Cement	120	CRA 1955	1258	1.53	1-0.09	0.010
P-5081	Burdick Dr.	8	Asbestos Cement	130	CRA 1970	287	16.28	1 0.10	0.000
P-5082	Ontario Ave.	6	Asbestos Cement	130	CRA 1970	353	1.48	0.02	0.000
P-5083	Burdick Dr.	8	Asbestos Cement	130	CRA 1970		13.32	0.09	0.000
P-5084	Rainbow Rd.	6	Asbestos Cement	130	CRA 1971	246	1.48	0.02	0.000
P-5085	Burdick Dr.	8	Asbestos Cement	130	CRA 1970	342	10.36	0.07	0.000
P-5086	Sunrise Dr.	8	Asbestos Cement	130	CRA 1972	407	5.72	0.04	0.000
P-5087	Sunkist Cir.	8	Asbestos Cement	130	CRA 1971	124	1.48	0.01	0.000
P-5088	Sunrise Dr.	8	Asbestos Cement	130	CRA 1972	400	2.76	0.02	0.000
P-5080	Burdick Dr.	8	Asbestos Cement	130	CRA 1970	854	1.48	0.01	0.000
P-5000	Burdick Dr	8	Asbestos Cement	130	CRA 1970	364	-0.20	0.00	0.000
P_6001	Bertfern Dr	6	Asbestos Cement	130	CRA 1970	121	1.48	0.02	0.000
D 5002	Burdiek De	- 8	Aspestos Cament	130	CRA 1970	1528	-3.16	0.02	0.000
P 6002		12	Cast iron	70	CRA 1928	1866	14.80	0.04	0.010
P 5093		10	Asbestos Coment	125	CRA 1968	319	13.32	0.05	0.000
P-5094	Data Litit Ca	10	Asbestos Coment	125	CRA 1968	602	11.84	0.05	0.000
P-5095	Bald Hill KO.		Acheetos Comon	125	CRA 1968	71	7.40	0.08	0.000
P-5096	Baki Mili Ko.		Ashartas Coment	125	CRA 1968	605	2.96	0.03	0.000
P-5097	Baio Hill Rd.		Cart ima	<u>40</u>	CRA 1028	223	1.48	0.02	0.000
P-5098	Moon Ave.	6		406	CRA 1069	424	2.96	0.03	0.000
P-5099	Baki Hill Rd.	6	Aspesios Cement	120	CRA 1069	330	1 48	0.02	0.000
P-5100	Bald Hill Rd.	6	Aspestos Lement	125	CDA 1000	067	206	0.01	0.000
	Baid Hill Rd.	10	Aspestos Cement	125	004 1900	707	1.49	0.01	0.000
P-5101									
P-5101 P-5102	Baki Hill Rd.	8	Asbestos Cement	125	CFGA 1900	1440	104.95	0.01	0.070
P-5101 P-5102 P-5103	Baki Hill Rd. New London Ave.	<u>8</u> 12	Asbestos Cement Ductile Iron	125	CRA 1900 CRA 2003	1418_	124.85	0.35	0.070

Label	Description	Diameter (in)	Material	Hazen- Williams C	Notes	Length (ft)	Discharge (gpm)	Velocity (ft/s)	Calculated Friction Headloss (fl)
P-5105	Greenview Rd.	8	Asbestos Cement	130	CRA 1975	316	-1.48	0.01	0.000
P-5106	Verdant Dr.	8	Asbestos Cement	130	CRA 1976	468	3.36	0.02	0.000
P-5107	Verdant Dr.	8	Asbestos Cement	130	CRA 1976	347	2.19	0.01	0.000
P-5108	Verdant Dr.	8	Asbestos Cement	130	CRA 1976	771	0.58	0.00	0.000
P-5109	Carriage Dr.	8	Asbestos Cement	130	CRA 1975	335	-0.90	0.01	0.000
P-5110	Candle Dr.	8	Asbestos Cement	130	CRA 1977	540	0.13	0.00	0.000
P-5111	Carriage Dr.	8	Asbestos Cement	130	CRA 1975	340	-2.25	0.01	0.000
F-5112	Hardpoint Rd.	8	Asbestos Cement	130	CRA 1976	566	0.31	0.00	0.000
P-5113	Carriage Dr.	8	Asbestos Cement	130	CRA 1975	228	-4.04	0.03	0.000
P-5114	Red Barn Ct	8	Ashestos Cement	130	CRA 1977	408	4 44	0.03	0.000
P-5115	Chanel Dr		P\/C	130	CPA 1088	303	1.48	0.02	0.000
P-5116	Ped Barn Ct	8	Achaetee Comant	130	CRA 1077	190	1.40	0.02	0.000
P.6117	Red Barn Ct	9	Asbestos Comont	130	CRA 1977	109	0.08	0.01	0.000
D 5110	Creative Bd	<u>-</u>	Asbestus Cement	100		£40	-9.90	0.00	0.000
P-5110	Greenwew Rd.		Aspestos Cement	100	CRA 1975	512	-0.34	0.04	0.000
P-5119	Seven Mile Rd.			135	CRA 1999	45	14.80	0.04	0.000
P-5120	Seven Mile Rd.	16	Ductile Iron	130	CRA 1988	1200	1.48	0.00	0.000
P-5121	Hope Rd.	12	Cast iron	60	CRA 1886	669	11.84	0.03	0.000
P-5122	Hope Rd.	6	Cast iron	30	CRA 1886	726	10.36	0.12	0.170
P-5123	Hali Ave.	6	Asbestos Cement	130	CRA 1973	575	2.96	0.03	0.000
P-5124	Hope Rd.	6	Cast iron	30	CRA 1886	1139	5.92	0.07	0.100
P-5125	Main St.	12	Cast iron	75	CRA 1886	3945	-353.35	1.00	4.030
P-5126	Lippitt Ave	6	Asbestos Cement	130	CRA 1975	1591	1.48	0.02	0.000
P-5127	Hope Rd	Å	Ductile Imn	135	CRA 1000	164	0.00	0.00	0.000
P.6120	Hone Dd		Ductilo Icon	125	CPA 1000	457	2.00	0.00	0.000
0 5120	nope r.u.		Ductile Iron	133	ODA 4000	40/	2.30	0.00	0.000
P-5129	норе ка.	4	Ductile Iron	135	UKA 1999	/59	1.48	0.04	0.000
P-5130	Hope Rd. PS	3	Ductile from	135	CRA 1999	211	4,44	0.20	0.020
P-5133	Seven Mile Rd. Tanks	16	Ductile Iron	135	CRA 1999	212	0.00	0.00	0.000
P-5134	Seven Mile Rd. Tanks	16	Ductile Iron	135	CRA 1999	256	0.00	0.00	0.000
P-5135	Seven Mile Rd. Tanks	16	Ductile Iron	135	CRA 1999	758	0.00	0.00	0.000
P-5136	Providence Master Meter	12	Ductile Iron	140	CRA 2002	209	250.61	0.71	0.040
P-5137	Oaklawn Ave.	12	Ductile Iron	140	CRA 2002	204	249.13	0.71	0.030
P-5138	Normandy Dr	6	Ashestos Cement	120	CRA 1950	1001	1.48	0.02	0.000
P.6130	Oakiawa Ave	12	Ductile Imp	140	CPA 2003	357	-149.97	0.43	0.020
D 6140	Atland St		Castat	70	CRA 1025	160	1 40	0.50	1 240
P-5140	Allard St.		Copper	70	004 1930	100	1.40	0.00	1.240
P-5141	Warren Ave.	6	Aspestos Cement	110	CRA 1939	125	-9.4/	0.11	0.000
P-5142	Hall Ave.	6	PVC	130	CRA 1985	140	1.48	0.02	0.000
P-5143	Hope Rd. PS	3	Ductile fron	135	CRA 1999	162	4.44	0.20	0.010
P-5144	Hope Rd. PS	3	Ductile iron	135	CRA 1999	211	4.44	0.20	0.020
P-5145	Daniel Ct.	8	Ductile Iron	140	CRA (Crestwood)	600	-20.77	0.13	0.010
P-5146	Daniel Ct.	8	Ductile Iron	140	CRA (Crestwood i	265	-24.11	0.15	0.000
P-5147	Daniel Ct.	8	Ductile Iron	140	CRA (Crestwood	200	1.67	0.01	0.000
P-5148	Vinton Ave	Â	Ductile Imp	140	CRA 2003	582	-4.53	0.03	0.000
P.6140	Vinton Ava	-	Ductile Iron	140	CRA 2003	588	2.47	0.02	0,000
P-5145	Office Ct		Ducule Iron	140	CIV- 2003	226	1 72	0.04	0.000
P-5150	Citye St.	0	Ductile from	140	004 2003	410	7.00	0.01	0.000
P-5151	Seane Ave.		Ductile Iron	140	004 2003	410	7.00	0.05	0.000
P-0152	Wheelock Ave.	8		140	URA 2003	441	-9.41	0.00	0.000
P-5153	Angell Ave.	8	Ducule fron	140	CRA 2003	285	-4.62	0.03	0.000
P-6000	Orchard Dr.	8	Asbestos Cement	130	SCIT 1973	2588	-1.23	0.01	0.000
P-6001	Blossom Ln.	8	Asbestos Cement	130	SCIT 1973	510	1.23	0.01	0.000
P-6002	Blossom Ln.	8	Asbestos Cement	130	SCIT 1973	242	-3.70	0.02	0.000
P-6003	North Rd.	8	Asbestos Cement	130	SCIT 1972	133	1.23	0.01	0.000
P-6004	North Rd.	6	PVC	130	SCIT 1986	332	-8.63	0.10	0.000
P-6005	Reservation Dr	3	Ashestos Comont	125	SCIT 1964	736	1.23	0.01	0.000
P_6006	North DA		P\/C	120	SCIT 1986	1302	.11 10	0.13	0.020
P-6007	High Ct		PV/C	120	SCIT 1086	1054	_43 13	0 40	0.230
B 6000	Landantan Aun		Cart in	1.50	SCIT 1020	10/7	1 22	0.40	0.000
1-0008	namogton Ave.			45	3011 1930	104/	1.23	0.01	0.000
P-6009	Harrington Ave.	6	PVC	130	5011 1986	227	-45.60	0.52	0.000
P-6010	Main St.	8	Asbestos Cement	125	SCIT 1967	683	98.32	0.63	0.180
P-6011	Main St.	6	Cast iron	45	SCIT 1939	442	36.19	0.41	0.500
P-6012	North Rd.	6	PVC	130	SCIT 1986	493	-30.80	0.35	0.060
P-6013	Mill SL	6	Cast iron	30	SCIT 1887	1423	52.66	0.60	6.840
P-6014	Main St.	6	Cast iron	30	SCIT 1887	300	-71.53	0.81	2.540
P-6015	Main St	R	Ductile Iron	130	SCIT 1988	826	119.26	0.76	0.290
P_6016	Hone Furnace Rd	12	Ductile Imp	135	SCIT 1991	2152	4.93	0.01	0,000
0 0010	Hope Furnese Pd		Ductile tess	135	SCIT 1001	1360	3 70	0.01	0.000
P-0018	hope rumace ka.	- 12	Ducule iron	130	SCIT 1991	2642	1.02	0.00	0,000
P-6019	Howard Ave.	12		130	DOLT 1991	2010	1.20	- 0.00 0.00	1 000
P-6020	Howard Ave.	12	Uuctile Iron	135	5011 1991	535	1.23	1-0.00	1 700
P-6021	Hope Ave.	8	Asbestos Cement	125	SCH 1967	3086	-145.15	0.83	1./00
P-6022	Hope Ave.	16	Asbestos Cement	120	SCIT 1956	299	384.18	0.61	0.040
P-6023	Cranberry Dr.	16	Ductile Iron	135	SCIT 1991	1261	6.16	0.01	0.000
P-6024	Pasture View Ln.	16	Ductile Iron	135	SCIT 1991	588	1.23	0.00	0.000
P-6025	Cranberry Dr.	16	Ductile Iron	135	SCIT 1991	441	3.70	0.01	0.000
P_6026	Kard (*	16	Ductile imn	135	SCIT 1991	737	1.23	0.00	0.000
P-0020	Crasher: Dr	- 10	Ductile imn	135	SCIT 1991	1621	1 23	0.00	0.000
	Uranderry Dr.	10		100	COT 4050		076 70	+ 0.00	0.100
P-0027		40	Anhadra Carat	1 1 1 1 1 1		1 24-		1 1 1 1 1 1	1 11 11-1
P-6027	Hope Ave.	16	Asbestos Cement	120	5011 1990	640	3/0./0	0.00	0.100
P-6027 P-6028 P-6029	Hope Ave. Meadow Rd.	16 6	Asbestos Cement Asbestos Cement	120	SCIT 1956	268	6.16	0.00	0.000

- [Label	Description	Diameter (in)	Material	Hazen- Williams C	Notes	Length (ft)	Discharge (gpm)	Velocity (ft/s)	Calculated Friction Headloss (ft)
ľ	P-6031	Country Ln.	6	Asbestos Cement	125	SCIT 1966	160	1.23	0.01	0.000
[P-6032	Country Ln.	6	Asbestos Cement	125	SCIT 1966	304	-0.43	0.00	0.000
[P-6033	Meadow Rd.	6	Asbestos Cement	125	SCIT 1966	83	1.23	0.01	0.000
	P-6034	Meadow Rd.	6	Asbestos Cement	125	SCIT 1966	311	-2.90	0.03	0.000
ļ	P-6035	Hope Ave.	16	Asbestos Cement	120	SCIT 1956	303	369.38	0.59	0.030
1	P-6038	Clinton Ave. PS	30	Steel	125	SCIT 2006	456	7118.81	3.23	0.540
	P-6039	Clinton Ave.	24	Ductile Iron	140	SCIT 2005	<u> </u>	2010.86	1.43	0.040
-	P-6041	Clinton Ave.	16	Aspestos Cement	120	SCIT 1972	573	1366.03	2.18	0.740
	P-6042	Clinton Ave.	24	Ductile Iron	140	SCIT 2005	339	5106.72	3.62	0.000
	P-6043	Colvio St	16	Asbestos Cament	140	SCIT 1957	1869	1364.80	2 18	2 410
	P-6043	Clinton Ave	24	Ductile Imn	140	SCIT 2005	529	0.00	0.00	0.000
	P-6049	Patrode Ave	8	Ductile Iron	135	SCIT 1993	594	111.79	0.71	0.170
	P-6050	Doray Dr.	8	Asbestos Cement	120	SCIT 1958	457	1.23	0.01	0.000
	P-6051	Doray Dr.	8	Asbestos Cement	120	SCIT 1958	382	109.33	0.70	0.130
	P-6052	Jackson Flat Rd.	8	Ductile Iron	135	SCIT 1999	144	1.23	0.01	0.000
	P-6053	Jackson Flat Rd.	8	Ductile from	135	SCIT 1999	700	106.86	0.68	0.190
	P-6055	Colvin St.	16	Asbestos Cement	120	SCIT 1957	276	1363.57	2.18	0.350
	P-6059	Clinton Ave.	16	Asbestos Cement	120	SCIT 1972	656	531.80	0.85	0.150
	P-6060	Clinton Ave.	16	Asbestos Cement	120	SCIT 1972	115	-530.56	0.85	0.030
	P-6061	Clinton Ave. PS	30	Steel	125	SCIT 2006	10	7118.81	3.23	0.010
	P-6062	Clinton Ave. PS	30	Steel	125	SCIT 2006	5	-7118.81	3.23	0.010
	P-6063	Clinton Ave. PS	16	Ductile fron	140	SCH 2006	10	0.00	0.00	0.000
	P-6064	Clinton Ave. PS		Steel	125	SCH 2006	<u>_</u>	~7110.01	3.23	0.010
	P-6065	Clinton Ave. PS	20	Uuctile iron	140	SCIT 2006	5	-7118.81	3.23	0.000
	P-0000	Clinton Ave. PS	16	Ductile Imp	140	SCIT 2006	10	-3559 41	5.68	0.050
	P-6068	Clinton Ave. PS	30	Steel	125	SCIT 2006	5	3559.41	1.62	0.000
-	P-6069	Clinton Ave. PS	16	Ductile Iron	140	SCIT 2006	10	-3559.41	5.68	0.050
	P-6070	Clinton Ave. PS	30	Steel	125	SCIT 2006	100	7118.81	3.23	0.120
	P-6071	Clinton Ave, PS	16	Ductile iron	140	SCIT 2006	10	3559.41	5.68	0.060
	P-6072	Clinton Ave. PS	30	Steel	125	SCIT 2006	5	3559.41	1.62	0.000
	P-6073	Clinton Ave. PS	16	Ductile Iron	140	SCIT 2006	10	3559.41	5.68	0.060
•	P-6074	Clinton Ave. PS	30	Steel	125	SCIT 2006	5	0.00	0.00	0.000
:	P-6075	Clinton Ave, PS	16	Ductile Iron	140	SCIT 2006	10	0.00	0.00	0.000
	P-6076	Clinton Ave. PS	30	Steel	125	SCIT 2006	5	0.00	0.00	0.000
	P-6077	Clinton Ave. PS	16	Ductile Iron	140	SCIT 2006	10	0.00	0.00	0.000
	P-6078	North Rd.	8	Asbestos Cement	130	SCIT 1973	989	1 -6.16	0.04	0.000
	P-6079	White Ln.	6	PVC	130	SCIT 1988	728	1.23	0.01	0.000
	P-6080	North Rd.	6	Cast iron	45	SCIT 1939	293	-30.56	0.42	0.340
	P-6081	Ives St.	6	Cast Iron	43	SCIT 1939	274	-7.01	0.00	0.020
	P-6082	Ives St. Easement	4	Cast lion	40	SCIT 1887	494	-67.84	0.77	3 790
	P-0003	Bown St	8	Cast imn	30	SCIT 1887	312	2.47	0.03	0.010
	P_6085	Goddard St	6	Cast imn	30	SCIT 1887	234	1.23	0.01	0.000
	P-6086	Clipton Ave	24	Ductile Iron	140	SCIT 2005	895	-1.23	0.00	0.000
	P-6087	Hope Ave.	24	Ductile from	140	SCIT 2005	3960	-1.23	0.00	0.000
	P-6088	Main St.	24	Ductile Iron	140	SCIT 2005	623	-1.23	0.00	0.000
	P-6089	Main St.	24	Ductile Iron	140	SCIT 2005	2548	-1.23	0.00	0.000
	P-6090	Knotty Oak Rd.	24	Ductile Iron	140	SCIT 2005	195	-965.26	0.68	0.010
	P-6091	Colvin St.	24	Ductile Iron	140	SCIT 2005	2415	-5209.88	3.69	3.880
	P-6092	Colvin St.	24	Ductile Iron	140	SCIT 2005	456	-5209.88	3.69	0.730
	P-6093	Jackson Flat Rd.	24	Ductile Iron	140	SCIT 2005	65	105.63	0.07	0.000
	P-6094	Clinton Ave.	30	Steel	125	SCIT (Future HS	307	0.00	0.00	0.000
	P-6095	Clinton Ave.	12	Ductile Inco	140	SCIT (Future HS	202	0.00	0.00	0.000
	P 5007	Clinton Ave.	12	Ductile Imo	140	SCIT (Future HS	163	0.00	0.00	0.000
	P-0097	Clinton Ave.	12	Ductile Iron	140	SCIT (Future HS	166	0.00	0.00	0.000
—	P_6000	Clinton Ave	12	Ductile iron	140	SCIT (Future HS	188	0.00	0.00	0.000
	P-6100	Clinton Ave.	12	Ductile Iron	140	SCIT (Future HS	163	0.00	0.00	0.000
	P-6101	Clinton Ave.	16	Asbestos Cement	120	SCIT 1972	331	1477.83	2.36	0.490
	P-6102	Clinton Ave. PS	30	Steel	125	SCIT 2006	5	-7118.81	3.23	0.010
_	P-6104	Clinton Ave. PS	16	Ductile Iron	140	SCIT 2006	10	0.00	0.00	0.000
	P-6105	Clinton Ave. PS	16	Ductile Iron	140	SCIT 2006	10	0.00	0.00	0.000
	P-6106	Clinton Ave. PS	30	Steel	125	SCIT 2006	5	0.00	0.00	0.000
	P-7000	Nooseneck Hill Rd.	12	Ductile Iron	130	COV 1989	5023	214.46	0.61	0.740
	P-7001	Harkney Hill Rd.	12	Ductile Iron	130	COV 1989	1002	213.23	0.00	0.000
	P-7002	Harkney Hill Rd.	12	Ductile iron	130	COV 1989	335	210.70	00.0	0.00
	P-7003	Hill Farm Rd.	12	Acherton Comert	130	COV 1969	2225	34.00	0.00	0.010
	P-7004		- 12	Asoestos Cement	130	COV 1902	820	2.45	0.03	0.000
	P-/005	Lakenurst Uf.	4	Ductile Iron	135	COV 1991	1074	1.22	0.01	0.000
	P-700P	Hill Form Pd	12	Ashastos Cement	130	COV 1982	2141	17.00	0.05	0.000
	P.7000	Sherwood Valley I.n. (Private)	12	Asbestos Cement	130	COV 1982	190	14.55	0.04	0.000
	P-7010	Hill Farm Rd.	12	PVC	130	COV 1988	1420	1.22	0.00	0.000
	P-7011	Wisterla Dr.	8	Asbestos Cement	125	COV 1962	2154	175.47	1.12	1.690
	P-7012	Wood Cove Dr.	8	Asbestos Cement	125	COV 1968	853	49.03	0.31	0.060

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	1		Diameter		Hazen-			Discharge	Velocity	Friction
	Label	Description	(in)	Material	_Williams C	Notes	Longth (ft)	(gpm)	(ft/s)	Headloss (ft)
ľ	P-7013	Wood Cove Dr.	8	Asbestos Cement	125	COV 1968	1172	30.80	0.20	0.040
[P-7014	Magnolia Ln.	8	Asbestos Cement	125	COV 1968	327	0.00	0.00	0.000
].	P-7015	Wood Cove Dr.	8	Asbestos Cement	125	COV 1968	1641	43,61	0.42	0.110
- F	P-7016	Magnolia Ln.	8	Asbestos Cement	125	COV 1968	1430	-18.02 81.62	0.12	0.020
ŀ	P-7017	Wisteria Dr.	8	Aspestos Cement	125	COV 1962	40U 834	100	0.52	0.050
Ļ	P-7018	Magnolla Ln.	8	Aspestos Cement	120	COV 1900	703	17.00	0.00	0.000
_ ł	P-/019	Magaelie Le	- 0 	Ashectos Cement	125	COV 1968	275	25.39	0.16	0.010
- I	P-7020	Magnolia Ln.	0	Asheetos Coment	125	COV 1968	564	-4,61	0.03	0.000
	P-7021	Cisclewood Dr	0 R	Ashestos Cement	130	COV 1978	2238	9.84	0.06	0.010
ł	P-7022	Rustic Way	8	Asbestos Cement	130	COV 1979	509	28.78	0.18	0.010
ŀ	P-7024	Circlewood Dr.	8	Asbestos Cement	130	COV 1978	745	37.40	0.24	0.030
	P-7025	Wisteria Dr.	8	Asbestos Cement	125	COV 1962	617	-28.43	0.18	0.020
	P-7026	Wisteria Dr.	8	Asbestos Cement	125	COV 1962	446	-51.76	0.33	0.040
1	P-7027	Kingswood Dr.	6	Asbestos Cement	125	COV 1968	660	22,11	0.25	0.050
	P-7028	Kingswood Dr.	6	Asbestos Cement	125	COV 1968	407	1.37	0.02	0.000
Í	P-7029	Wood Cove Dr.	8	Asbestos Cement	125	COV 1968	567	-61.40	0.39	0.060
~ [P-7030	Wisteria Dr.	8	Asbestos Cement	125	COV 1962	916	64.60	0.41	0.110
1	P-7031	Jack Pine Rd.	6	Asbestos Cement	125	COV 1962	337	13./1	0.16	0.010
I	P-7032	Peachtree Ln.	6	Asbestos Cement	130	COV 1975	1646	+19.52	0.22	0.090
	P-7033	Wood Cove Dr.	- 8 -	Asbestos Cement	125	COV 1908	034	20.20	0.08	0.050
	P-7034	Apple Blossom Ln.	6	Asbestos Coment	120	COV 1902	1009	16 69	0.19	0.040
	P-7035	Apple Blossom Ln.	10	Ashestos Comont	115	COV 1944	395	-497.26	0.79	0.080
	P-/036	Mictoria Dr.		Asheetoe Cement	125	COV 1962	825	49.66	0.32	0.060
	P-/U3/	Chemy Riccom Lo	8	Ashestos Cement	125	COV 1962	1479	13.65	0.15	0.040
	P-7030	Wisteria Dr	R	Asbestos Cement	125	COV 1962	667	-20.22	0.13	0.010
	P-7040	Wisteria Dr.	1 a	Asbestos Cement	125	COV 1962	296	-47.75	0.30	0.020
	P-7041	Wisteria Dr.	8	Asbestos Cement	125	COV 1962	285	-34.79	0.22	0.010
	P-7042	Jack Pine Rd.	6	Asbestos Cement	125	COV 1962	302	5.02	0.06	0.000
	P-7043	Jack Pine Rd.	6	Asbestos Cement	125	COV 1962	318	-32.01	0.36	0.040
	P-7044	Red Maple Rd.	8	Asbestos Cement	125	COV 1962	707	-14.18	0.09	0.010
	P-7045	Red Maple Rd.	8	Asbestos Cement	125	COV 1962	375	-35.81	0.23	0.020
	P-7046	Plum Tree Ln.	8	Asbestos Cement	130	COV 1973	1155	20.40	0.13	0.020
	P-7047	Wood Cove Dr.	8	Asbestos Cement	125	COV 1968	346	47.95	0.31	0.020
	P-7048	Jack Pine Rd.	6	Asbestos Cement	125	COV 1962	464	-10.43	0.12	0.010
	P-7049	Wood Cove Dr.	8	Asbestos Cement	125	COV 1968	1091	-36./4	0.23	0.000
	P-7050	Blueberry Ln.	6	Aspestos Cement	125	COV 1967	017	2.4	0.03	0.040
	P-7051	Wood Cove Dr.	8	Aspestos Cement	120	COV 1900	278	-07.00	0.24	0.010
	P-7052	Wood Cove Dr.	8	Aspestos Cement	120	COV 1976	668	1.22	0.01	0.000
	P-7053	Winteria Dr.		Ashestos Cement	125	COV 1962	588	32.64	0.21	0.020
	P. 70FE	Wisteria Dr.	<u>с</u> я	Asbestos Cement	125	COV 1962	573	0.00	0.00	0.000
	P.7066	West View Dr	8	Asbestos Cement	130	COV 1973	417	31.41	0.20	0.010
	P.7057	West View Dr	8	Asbestos Cement	130	COV 1973	438	3.67	0.02	0.000
	P-7058	West View Dr.	B	Asbestos Cement	130	COV 1973	347	-5.05	0.03	0.000
	P-7059	Linden Ln.	6	Asbestos Cement	130	COV 1973	482	-26.31	0.30	0.040
	P-7060	Blue Spruce Dr.	8	Asbestos Cement	130	COV 1976	1332	26.52	0.17	0.030
-	P-7061	Lynn Dr.	12	PVC	130	COV 1987	397	24.31	0.07	0.000
	P-7062	Lynn Dr.	12	PVC	130	COV 1987	138	23.09	0.07	0.000
	P-7065	Lynn Dr.	12	PVC	130	COV 1987	1047	0.98	0.00	0.000
	P-7066	West View Dr.	8	Asbestos Cement	130	COV 1987	1142	-23.86	0.15	0.020
	P-7067	West View Dr.	8	Asbestos Cement	130	COV 1973	670	-20.03	0.13	0.010
	P-7068	Winterberry Dr.	6	Asbestos Cement	130	COV 1973	190	1 22	0.00	0.000
	P-7069	Crocus Ct.	+	Aspestos Cement	130	COV 1973	508	7.50	0.09	0,010
	P-7070	Winterberry Dr.		ASUESIUS CEINERI	130	COV 1981	843	1.22	0.01	0.000
	P-/0/1	Ray SL.		Ashestos Cement	115	COV 1944	366 ·	-499.71	0.80	0.080
	P-/0/2	Sugar Manla Dr	10	Ductile Iron	135	COV 1991	481	20.78	0.06	0.000
	P-7074	Hamis Ave	8	Asbestos Cement	120	COV 1950	754	30.61	0.20	0.030
	P-7075	Sugar Maple Dr.	12	Ductile Iron	135	COV 1991	733	19.84	0.06	0.000
	P-7076	Buttemut Dr.	8	Ductile Iron	135	COV 1991	263	35.83	0.23	0.010
	P-7077	Lynn Dr.	12	PVC	130	COV 1986	385	23.62	0.07	0.000
	P-7079	Wood Cove Dr.	8	Asbestos Cement	125	COV 1968	617	67.13	0.43	0.080
	P-7082	Wolfe Ct.	6	Ductile Iron	135	COV 1990	301	1.22	0.01	0.000
	P-7083	Sugar Maple Dr.	12	Ductile Iron	135	COV 1991	565	10.33	0.00	0.000
	P-7084	Sugar Maple Dr.	12	Ductile Iron	135	COV 1991	510	17 21	0.05	0,000
	P-7085	Sugar Maple Dr.	12	Ductile Iron	135	COV 1991	146	1 22	0.01	0.000
	P-7086	Pamela Ct.	- 8	Ductile iron	130	COV 1991	347	-19.66	0.06	0.000
	P-7087	Sugar Maple Dr.	12		125	COV 1968	1492	45.13	0.29	0.090
	P-7088	Wood Cove Dr.	8	Achestos Coment	130	COV 1976	324	1.22	0.01	0.000
	P-/089	Keo Geoar UT.	- 0	Ashestos Cement	125	COV 1968	806	42.68	0.27	0.050
_	P 7004	Clubbosca Pd	8	Asbestos Cement	130	COV 1974	216	32.93	0.21	0.010
	P_7002	Ciubhouse Rd	8	Asbestos Cement	130	COV 1974	976	15.91	0.10	0.010
	P-7092	Island Dr.	8	Asbestos Cement	130	COV 1976	447	9.79	0.06	0.000
	P-7094	Osprey Dr.	8	PVC	130	COV 1981	1445	2.45	0.02	10.000

Label	Description	Diameter	Material	Hazen- Williams C	Notes	Length (ft)	Discharge (gom)	Velocity (ft/s)	Calculated Friction Headloss (ft)
P-7095	Kingfisher Or	8	PVC	130	COV 1985	728	1.22	0.01	0.000
P-7096	island Dr	8	Ashestos Cement	130	COV 1976	1078	6.12	0.04	0.000
P-7097	Osprev Dr.	8	PVC	130	COV 1985	169	1.22	0.01	0.000
P-7098	Island Dr.	6	Ductile Iron	135	COV 1993	1012	3.67	0.04	0.000
P-7099	Island Dr.	6	Ductile Iron	135	COV 1993	235	1.22	0.01	0.000
P-7100	Island Dr.	6	Ductile Iron	135	COV 1993	227	1.22	0.01	0.000
P-7101	Marion Dr.	8	Asbestos Cement	130	COV 1975	1045	4.90	0.03	0.000
P-7102	Veronica Ct.	6	Asbestos Cement	130	COV 1975	393	1.22	0.01	0.000
P-7103	Marion Dr.	8	Asbestos Cement	130	COV 1975	483	2.45	0.02	0.000
P-7104	Sharon Dr.	8	Ductile Iron	135	COV 1993	4015	1.22	0.01	0.000
P-7105	Silver Maple Dr.	8	Asbestos Cement	130	COV 1978	401	15.79	0.10	0.000
P-7106	Juniper Hill Dr.	88	Asbestos Cement	130	COV 1979	864	7,47	0.05	0.000
P-7107	Azalea Way	8	Asbestos Cement	130	COV 1979	1052	-2.12	0,01	0.000
P-7108	Silver Maple Dr.	8	Asbestos Cement	130	COV 1978	838	7.10	0.05	0.000
P-7109	Juniper Hill Dr.	8	Asbestos Cement	130	COV 1979	521	8.37	0.05	0.000
P-7110	Giblin Ln.	8	Ductile Iron	135	COV 1990	408	3.30	0.02	0.000
P-7111	Giblin Ln.	8	Ductile Iron	135	COV 1990	1205	-3.05	0.02	0.000
P-7112	Silver Maple Dr.	8	Ductile Iron	135	COV 1991	287	-11.05	0.07	0.000
P-7113	Silver Maple Dr.	8	Asbestos Cement	130	COV 1978	223	-3.75	0.02	0.000
P-7114	Juniper HIII Dr.	8	Ductile Iron	135	COV 1998	1228	3.84	0.02	0.000
P-7115	Orchard Tr.	8	Ductile Iron	135	COV 1992	496	5.13	0.03	0.000
P-7116	Orchard Tr.	8	Ductile Iron	135	COV 1992	634	1.79	0.01	0.000
P-7117	Regal Wood Dr.	8	Ductile Iron	135	COV 1999	537	-1.39	0.01	0.000
P-7118	Silver Maple Dr.	8	Ductile Iron	135	COV 1991	572	6.77	0.04	0.000
P-7119	Tamarack Tr.	8	Ductile Iron	135	COV 1992	1170	1.66	0.01	0.000
P-7120	Arbutus Tr.	. 8	Ductile Iron	135	COV 1992	746	-2.11	0.01	0.000
P-7121	Silver Maple Dr.	8	Ductile Iron	135	COV 1991	449	3.88	0.02	0.000
P-7122	Catalpa Way	8	Ductile Iron	135	COV 1994	1015	-0.40	0.00	0.000
P-7123	Arbutus Tr.	8	Ductile Iron	135	COV 1992	419	-2.55	0.02	0.000
P-7124	Arbutus Tr.	8	Ductile Iron	135	COV 1992	459	0.93	0.01	0.000
P-7125	Tallwood Dr.	8	Ductile Iron	140	COV 2001	513	-0.74	0.00	0.000
P-7126	Regal Wood Dr.	8	Ductile Iron	135	COV 1999	1033	-1.96	0.01	0.000
P-7127	Tailwood Dr.	8	Ductile Iron	140	COV 2001	485	U.44	0.00	0.000
P-7128	Reservoir Rd.	8	Ductile Iron	135	COV 1996	1553	1.22		0.000
P-7129	Reservoir Rd.	12	Ductile Iron	135	COV 1993	2353	-2.00		0.000
P-7130	Catalpa Way	8	Ductile Iron	135	COV 1994	504	3.06	0.02	0.000
P-7131	White Oak Ct.	8	Ductile Iron	135	COV 1999	528	1.63	0.01	0.000
P-7132	White Oak Ct.	8	Ductile Iron	135	COV 1999	605	0.41	0.00	0.000
P-7133	White Oak Ct.	8	Ductile Iron	135	COV 1999	227	1.22	0.01	0.000
P-7134	Ash Ln.	8	Ductile Iron	135	COV 1999	350	-2.04	0.01	0.000
P-7135	Catalpa Way	8	Ductile Iron	135	COV 1994	606	-0.21	0.00	0.000
P-7136	Catalpa Way	8	Ductile Iron	135	COV 1994	621	-3.06	0.02	0.000
P-7137	Reservoir Rd.	12	Ductile Iron	135	COV 1993	1436	-6.29	0.02	0.000
P-7138	Reservoir Rd.	12	PVC	130	COV 1988	489	-56.70	0.16	0.010
P-7139	Kiley Way	8	Ductile Iron	135	COV 1999	1880	0.15	0.00	0.000
P-7140	Kiley Way	8	Ductile Iron	135	COV 1999	157	1.22	0.01	0.000
P-7141	Kiley Way Easement	8	Ductile fron	135	COV 1999	585	-2.30	0.01	0.000
P-7142	Eastgate Dr.	8	Asbestos Cement	130	COV 1979	495	-8.52	0.05	0.000
P-7143	Doric Ct.	6	Asbestos Cement	130	COV 1980	355	1.22	0.01	0.000
P-7144	Eastgate Dr.	8	Asbestos Cement	130	COV 1979	666	-10.97	0.07	0.000
P-7145	Acacia Ct.	8	Asbestos Cement	130	COV 1980	722	1.22	0.01	0.000
P-7146	Eastgate Dr.	8	Asbestos Coment	130	COV 1979	538	-15.72	0.10	0.000
P-7147	Clubhouse Rd.	8	Asbestos Cement	130	COV 1974	1309	-8.53	0.05	0.000
P-7148	Clubhouse Rd.	8	Asbestos Cement	130	COV 1974	736	-8.41	0.05	0.000
P-7149	Clubhouse Rd.	8	PVC	130	COV 1988	99	2.45	0.02	0.000
P-7150	Clubhouse Rd.	8	PVC	130	COV 1988	600	1.22	0.01	0.000
P-7152	Clubhouse Rd. (Coventry High School)	8	Ductile Iron	135	COV 1990	590	-15.76	0.10	0.000
P-7153	Reservoir Rd.	12	PVC	130	COV 1987	1247	61.74	0.18	0.020
P-7154	Clubhouse Rd.	8	PVC	130	COV 1988	408	2.45	0.02	0.000
P-7155	Reservoir Rd.	12	PVC	130	COV 1988	417	58.07	0.16	0.010
P-7156	Reservoir Rd.	8	Asbestos Cement	125	COV 1965	416	-79.94	0.51	0.080
P-7157	Butternut Dr.	8	Asbestos Cement	130	COV 1978	931	-34.60	0.22	0.030
P-7158	Reservoir Rd.	8	Asbestos Cement	125	COV 1965	680	-46.57	0.30	0.050
P-7159	Nooseneck Hill Rd.	12	Ductile Iron	130	COV 1989	3039	-38.27	0.11	0.020
P-7160	Tioque Ave.	12	Ductile Iron	130	COV 1989	1521	-39.49	0.11	0.010
P-7161	Jefferson Dr.	12	Ductile Iron	130	COV 1989	1389	-40.71	0.12	0.010
P-7182	Jefferson Dr.	12	Ductile Iron	130	COV 1989	1122	-41.94	0.12	0.010
P-7164	Helen Ave.	12	Ductile Iron	130	COV 1989	1340	-86.01	0.24	0.040
P-7165	Helen Ave.	12	Ductile Iron	130	COV 1989	353	87.23	0.25	0.010
P.7166	Monroe Dr.	8	Asbestos Cement	130	COV 1977	725	40.39	0.26	0.030
P.7167	Monroe Dr	8	Asbestos Cement	130	COV 1977	569	18.09	0.12	0.010
P.7169	Monroe Dr.	8	Asbestos Cement	130	COV 1985	1103	16.87	0.11	0.010
D.7460	Mome Dr.	8	Ductile Iron	135	COV 1999	467	12.73	0.08	0.000
P-/109	Mormo Dr.	R	Ductile Iron	135	COV 1999	781	11.50	0.07	0.000
P-/1/0	Adame Dr	- - 2	Aspestos Cement	130	COV 1978	539	10.28	0.07	0.000
P 7172	Hoover Or	8	Asbestos Cement	130	COV 1978	468	-22.77	0.15	0.010
P-/1/2	Houser Dr	- 8	Asbestos Cement	130	COV 1978	426	-2.92	0.02	0.000
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	Label	Description	Diameter (in)	Material	Hazen- Williams C	Notes	Length (ft)	Discharge (gpm)	Velocity (ft/s)	Friction Headloss (ft)
	P-7174	Garfield Dr.	8	Asbestos Cement	130	COV 1979	1170	-21.08	0.13	0.020
	P-7175	Adams Dr.	8	Asbestos Cement	130	COV 1978	415	31.83	0.20	0.010
1	P-7176	Adams Dr.	8	Asbestos Cement	130	COV 1978	572	19.65	0.13	0.010
[P-7177	Hancock Dr.	8	Asbestos Cement	130	COV 1977	1233	10.95	0.07	0.010
	P-7178	Hancock Dr.	8	Asbestos Cement	130	COV 1977	287	9.72	0.06	0.000
	P-7179	Read School House Rd.	12	Asbestos Cement	130	COV 1973	265	-1092.52	3.10	0.790
1	P-7180	Read School House Rd.	12	Asbestos Cement	130	COV 1973	226	1.22	0.00	0.000
	P-7181	Read School House Rd.	12	Asbestos Cement	130	COV 1973	2715	-1093.74	3.10	8.120
1	P-7182	Flat River Rd.	12	Asbestos Cement	130	COV 1973	191	1.22	0.00	0.000
1	P-7183	Flat River Rd.	12	Asbestos Cement	130	COV 1973	4/9	-1096.19	3.11	1.440
	P-7184	Brenda Dr.	6	Asbestos Cement	130	COV 19/1	1007	1.22	2.12	2.000
	P-7185	Flat River Rd.	12	Asbestos Cement	125	COV 1966	1007	-1098.64	0.95	1.040
	P-7186	Walker Ln.	12	Ductile from	135	COV 1994	4120	-290.00	0.00	0.270
	P-7187	Walker Ln.	12		135	COV 1994	070	-299.42	0.83	0.270
	P-7188	Cobblestone ler.		Ductile Iron	133	COV 1994	1668	-112 74	0.72	0.200
	P-7189	Cobblestone 1er.		Ducae Iron	135	COV 1994	1000	188.92	1 21	0.790
	P-7190	Coblestone Ler.	0	Ducue non	135	COV 1993	2401	-302.89	1 93	4 480
· 1	P-7191	Cooblestone Ter.		Ductile iron	135	COV 1993	2953	61 47	0.39	0.290
	P-/192	Leuba Rd.	12	Achestos Cement	125	COV 1966	3469	801.87	2.27	6.280
	P-/193		- 12	Achectos Cement	130	COV 1974	152	-365.58	2.33	0.430
	P-/194	Leuba Ku.	8	Achestos Cement	130	COV 1974	725	1.22	0.01	0.000
	P-7195	Leute Rd	8	Asbestos Cement	130	COV 1974	686	-368.03	2.35	1.970
	P-7190	Leuba Rd	8	Asbestos Cement	130	COV 1974	776	1.22	0.01	0.000
	P.7108	Chandler Dr	8	Asbestos Cement	130	COV 1974	614	-370.48	2.36	1.780
	P.7199	Dapiel Dr	6	Asbestos Cement	130	COV 1975	506	-134.34	1.52	0.910
	P.7200	Metro Dr.	8	Asbestos Cement	130	COV 1975	847	-92.34	0.59	0.190
	P-7201	Metro Dr	8	Asbestos Cement	130	COV 1975	495	-93.56	0.60	0.110
·	P-7202	Daniel Dr	6	Asbestos Cement	130	COV 1975	809	44.45	0.50	0.190
	P-7203	Daniel Dr.	6	Asbestos Cement	130	COV 1975	508	43.23	0.49	0.110
	P-7204	Metro Dr.	8	Asbestos Cement	130	COV 1975	504	4.89	0.03	0.000
	P-7205	Diane Dr.	8	Asbestos Cement	130	COV 1979	695	2.44	0.02	0.000
	P-7206	Diane Dr.	8	Asbestos Cement	130	COV 1979	566	1.22	0.01	0.000
	P-7207	Metro Dr.	8	Asbestos Cement	130	COV 1975	730	1.22	0.01	0.000
	P-7208	Chandler Dr.	8	Asbestos Cement	130	COV 1974	2160	-237.36	1.51	2.750
	P-7209	Daniel Dr.	6	Asbestos Cement	130	COV 1975	225	145.36	1.65	0.470
	P-7210	Daniel Dr.	6	Asbestos Cement	130	COV 1975	521	144.13	1.64	1.070
	P-7211	Chandler Dr.	8	Asbestos Cement	130	COV 1974	509	-383.94	2.45	1.580
	P-7212	Colvintown Rd.	8	Asbestos Cement	130	COV 1971	73	-473.07	3.02	0.330
	P-7213	Bouider Dr.	8	Ductile Iron	135	COV 1990	927	94.02	0.60	0.200
	P-7214	Boulder Dr.	8	Ductile Iron	135	COV 1990	412	1.22	0.01	0.000
	P-7215	Stoney Hill Cir.	8	Ductile Iron	135	COV 1990	1146	91.57	0.58	0.230
	P-7216	Glacier Way	8	Ductile Iron	135	COV 1990	760	1.22	0.01	0.000
	P-7217	Stoney Hill Cir.	. 8	Ductile Iron	135	COV 1990	491	89.12	0.5/	0.100
	P-7218	Colvintown Rd.	8	Asbestos Cement	130	COV 1971	953	-87.91	0.50	0.190
	P-7220	Colvintown Rd.	8	Asbestos Cement	130	COV 1971	151	23.82	0.15	0.000
	P-7221	Old Main St.	8	Asbestos Cement	120	COV 1950	1/2	387.93	2.46	2.030
	P-7222	Flat River Rd.	12	Asbestos Cement	125	COV 1966	527	265.24	2.10	2 180
	P-7223	Old Main St.	8	Asbestos Cement	120	COV 1950	000	-305.34	2.33	2.100
	P-7224	Leader St.	6	Asbestos Cement	120	COV 1950	362	1.02	0.07	0.000
	P-7225	Leader St.	6	Asbestos Cement	125	COV 1962	203	1.22	0.01	0.000
	P-7226	First St_	6	Asbestos Cement	120	COV 1954	310	3.0/	0.04	0.000
	P-7227	First St.	6	Aspestos Cement	120	COV 1954	00	1 22	0.01	0.000
	P-7228	Second St.	<u> </u>	Aspestos Cement	120	COV 1934	1147	372 69	2.38	3.910
	P-7229	Flat River Rd.		Aspestos Cement	120	COV 1950	583	224.06	1 44	0.720
	P-7230	Alvero Rd,	8	Aspestos Cement	122	COV 1963	380	1 22	0.01	0.000
	P-7231	Hopkins Ct.	6	Aspestos Cement	120	COV 1965	234	82 42	0.53	0.050
	P-7232	Cynthia Dr.	<u> </u>	Aspestos Cement	125	COV 1965	1337	28.09	0.18	0.040
	P-7233	Cynthia Dr.	8	Asbestos Cement	120	COV 1968	286	1.22	0.01	0.000
	P-7234	Linda Ct.		Achectoc Coment	125	COV 1965	656	25.64	0.16	0.010
	P-7235	Cynnia Ur.		Ashaglos Comont	125	COV 1965	581	-53.12	0.34	0.050
	P-7236	Lynmia Ur.		Achestos Comont	125	COV 1963	501	140.08	0.89	0.260
··	P-/23/	AIVOID RO.	8	Ashestos Cament	125	COV 1963	444	71.41	0.46	0.070
	P-7230	Lloyd Dr.		Ashestos Cement	125	COV 1963	382	-27.55	0.18	0.010
	P-7239	Cohintowo Rd		Asbestos Cement	130	COV 1971	618	175.81	1,12	0.450
	P 7044	Colvince Pd	R	Asbestos Cement	130	COV 1971	253	174.59	1.11	0.180
	D 7040	Liowd Dr	A	Asbestos Cement	125	COV 1963	400	-28.77	0.18	0.010
	P-7243			Asbestos Cement	125	COV 1963	223	1.22	0.01	0.000
	P 7045	Tidilogo GL	R	Asbestos Cement	125	COV 1963	451	-31.22	0.20	0.010
	P-7245	Dottu Ct	R	Asbestos Cement	125	COV 1966	556	45.08	0.29	0.040
	D.7240	Linvi Dr		Asbestos Cement	125	COV 1963	363	-77.53	0.49	0.060
	P.7249	Alven Rd	8	Ductile Iron	140	COV 2001	960	210.27	1.34	0.850
	D.7240	Flat River Rri		Asbestos Cement	120	COV 1950	655	-598.86	3.82	5.370
	P.7250	Gail Ct	8	Asbestos Cement	<u>1</u> 25	COV 1969	838	1.22	0.01	0.000
	P-7252	Abbotts Crossing Rd.	6	Asbestos Cement	120	COV 1950	181	2.45	0.03	0.000
	P.7252	Abbotts Crossing Rd.	6	Asbestos Cement	120	COV 1950	1895	1.22	0.01	0.000
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			Diameter		Hazen-	i i		Discharge	Velocity	Friction
	Label	Description	(in)	Material	Williams C	Notes	Length (ft)	(gpm)	(ft/s)	Headloss (ft)
	P-7255	Flat River Rd.	8	Asbestos Cement	120	COV 1950	2907	-240.61	1.54	4.400
	P-7256	Main St.	8	Cast iron	60	COV 1890	653	0.00	0.00	0.000
	P-7257	Main St.	16	Cast iron	75	COV 1890	87 634	-241.84	0.39	0.010
	P-7258	Main St.	10	Cast iron	/5 75	COV 1890	76	-243.00	0.09	0.000
	P-7259	Main St.	16	Castimn	75	COV 1890	781	-245.51	0.39	0.100
	P-7260	Station St	12	Ashestos Cement	115	COV 1941	155	-246.73	0.70	0.040
	P-7262	Station St.	8	Asbestos Cement	125	COV 1963	717	-247.96	1.58	1.060
	P-7263	Park St.	6	Cast iron	45	COV 1933	359	4.90	0.06	0.010
	P-7264	Holden St.	6	Asbestos Cemant	125	COV 1964	147	1.22	0.01	0.000
	P-7265	Holden St.	6	Asbestos Cement	125	COV 1964	126	2.45	0.03	0.000
	P-7266	Francis St.	6	Asbestos Cement	115	COV 1944	669	1.22	0.01	0.000
	P-7267	Tero Dr.	6	Asbestos Cement	130	COV 1975	/58	-1.22	0.01	12 000
	P-7268	Maple St.	8	Asbestos Cement	120	COV 1956	947	254.08	4.00	12,500
	P-7269	Station St.	8	Asbestos Cement	120	COV 1905	996	-637.35	4.07	9,160
	P-7270	Maple St.	8	Asbestos Cement	120	COV 1956	268	-514.83	3.29	1.660
	P-7271	Maple St.	- 8	Asbestos Cement	120	COV 1956	84	-123.75	0.79	0.040
· •	P-7273	Maple St.	8	Asbestos Cement	120	COV 1956	256	-124.97	0.80	0.120
	P-7274	Knotty Oak Rd.	8	Asbestos Cement	115	COV 1947	89	849.40	5.42	1.510
	P-7275	Knotty Oak Rd.	8	Asbestos Cement	115	COV 1947	540	723.20	4.62	6.790
	P-7276	Foster Dr.	6	Asbestos Cement	115	COV 1947	354	3.67	0.04	0.000
	P-7277	Foster Dr.	6	Asbestos Cement	115	COV 1947	334	1.22	0.01	0.000
	P-7278	Foster Dr.	6	Asbestos Cement	115	COV 1947	1140	1.22	4.58	14 160
	P-7279	Knotty Oak Rd.	8	Aspestos Cement	110	COV 1947	295	12.24	0.08	0,000
	P-7280	Long Pond Rd.	8	Aspestos Cement	120	COV 1959	458	5.32	0.03	0.000
	P-7281	Long Pond Ko.		Ashestos Cement	120	COV 1959	486	1.32	0.01	0.000
•	P-1202	Dewn i n	6	Asbestos Cement	125	COV 1962	518	0.09	0.00	0.000
	P-7284	Dawn Ln.	6	Asbestos Cement	125	COV 1962	232	1.22	0.01	0.000
	P-7285	Long Pond Rd.	8	Asbestos Cement	120	COV 1959	676	-2.36	0.02	0.000
	P-7286	Meredith Dr.	6	Asbestos Cement	120	COV 1959	393	0.42	0.00	0.000
	P-7287	Meadow Ln.	6	Asbestos Cement	130	COV 1976	504	-1.46	0.02	0.000
	P-7288	Valley Crest Rd.	8	Asbestos Cement	125	COV 1960	297	-5.70	0.04	0.000
	P-7289	Valley Crest Rd.	8	Asbestos Cement	125	COV 1960	299	3.01	0.02	0.000
	P-7290	Cindy Ln.	6	Asbestos Cement	120	COV 1900	515	-0.66	0.01	0.000
	P-7291	Meredith Dr.	- 0	Asbestos Cement	120	COV 1959	267	0.44	0.00	0.000
	P-7292	Valley Crest Rd	6	Asbestos Cement	120	COV 1959	995	-0.79	0.01	0.000
•	P-7293	Colvintown Rd	- 8	Asbestos Cement	130	COV 1971	570	-570.76	3.64	3.690
	P-7295	Sweetwater Dr.	8	Asbestos Cement	130	COV 1978	615	-190.64	1.22	0.520
	P-7296	Sweetwater Dr.	8	Asbestos Cement	130	COV 1978	1462	-191.86	1.22	1.260
	P-7297	Teakwood Dr. East	8	Asbestos Cement	130	COV 1979	555	18.36	0.12	0.010
	P-7298	Teakwood Dr. East	8	Asbestos Cement	130	COV 1979	204	1.22	0.01	0.000
	P-7299	lvy Dr.	8	Asbestos Cement	130	COV 1979	672	15.91	0.10	0.010
	P-7300	Watercress Ct.	8	Asbestos Cement	130	COV 1979	812	13.46	0.01	0.000
	P-7301	Watercress Ct.	8	Asbestos Cement	130	COV 1979	500	7.88	0.05	0.000
	P-7302	Ironwood Dr.	8	Aspestos Cement	130	COV 1985	454	1.22	0.01	0.000
	P-7303	Laura Ct.	6	Asbestos Cement	130	COV 1985	483	5.43	0.03	0.000
	P-7304	Heather Ct	- 0 8	Asbestos Cement	130	COV 1985	309	1.22	0.01	0.000
	P-7206	iroowood Dr	8	Aspestos Cement	130	COV 1985	477	2.98	0.02	0.000
	P.7307	Teakwood Dr. West	8	Asbestos Cement	130	COV 1979	328	1.22	0.01	0.000
<u> </u>	P-7308	Teakwood Dr. West	8	Asbestos Cement	130	COV 1979	603	0.53	0,00	0.000
	P-7309	Teakwood Dr. West	8	Asbestos Cement	130	COV 1979	192	1.22	0.01	0.000
	P-7310	Deer Run Rd.	6	Asbestos Cement	130	COV 1984	1456	-1.92	0.02	0.000
	P-7311	Watercress Ct.	8	Asbestos Cement	130	COV 1979	100	1.22	0.01	0.000
	P-7312	Watercress Ct.	8	Asbestos Cement	130	COV 1979	508	-4.00	1.35	0.610
	P-7313	Teakwood Dr. East	8	Aspesios Cement	130	COV 1971	936	-381.35	2.43	2.870
	P-7314	Cohietawa Rd		Asbestos Cament	130	COV 1971	446	216.34	1.38	0.480
	P-/315	Colvintown Rd	- 8	Asbestos Cement	130	COV 1971	937	3.67	0.02	0.000
	P-7310	Knotty Oak Rd	8	Asbestos Cement	115	COV 1947	169	-1365.45	8.72	6.900
·	P-7318	Fariview Ave.	16	Asbestos Cement	115	COV 1944	526		0.85	0.130
	P-7319	Fairview Ave.	16	Asbestos Cement	115	COV 1944	162	-532.77	0.85	0.040
	P 7320	Walnut Hill Rd.	8	Asbestos Cement	125	COV 1965	709	3.67	0.02	0.000
	P-7321	White Rock Dr.	8	Asbestos Cement	125	COV 1965	220	1.22	0.01	0.000
	P-7322	White Rock Dr.	8	Asbestos Cement	125	COV 1965	- 1030	607 50	1.98	0.350
	P-7323	Knotty Oak Rd.	12	Asbestos Cement	125	COV 1962	328	167.54	1.07	0.240
	P-7324	Highwood Dr.		Asherine Comont	125	COV 1964	1493	71.85	0.46	0.220
	P-7325	Maplewood Ur.	- 0 8	Asbestos Cement	130	COV 1976	605	1.93	0.01	0.000
	P-/326	Highwood Dr.	8	Asbestos Cement	125	COV 1964	900	-94.46	0.60	0.220
	P-7321	Gierwood Dr	8	Asbestos Cement	130	COV 1976	917	68.70	0.44	0.120
	P-7320	Charwood Dr.	8	Asbestos Cement	130	COV 1978	594	67.47	0.43	0.070
	P-7330	Driftwood Dr.	6	Asbestos Cement	130	COV 1971	1730	-13.29	0.15	0.040
	P-7331	Highwood Dr.	8	Asbestos Cement	130	COV 1978	632	95.17	0.01	0,100

Label	Description	Diameter (in)	Material	Hazen- Williams C	Notes	Length (ft)	Discharge (gpm)	Velocity (ft/s)	Calculated Friction Headloss (ft)
P-7332	Highwood Dr.	8	Asbestos Cement	130	COV 1978	2655	80.66	0.51	0.460
P-7334	Charwood Dr.	8	Asbestos Cement	130	COV 1978	499	79.54	0.51	0.080
P-7335	Ginger Tr.	8	Ductile Iron	135	COV 1998	943	74.64	0.48	0.130
P-7336	Jasmine Ct.	8	Ductile Iron	135	COV 1998	221	1.22	0.01	0.000
P-7337	Ginger Tr.	8	Ductile Iron	135	COV 1998	1695	72.19	0.46	0.220
P-7338	Peppermint Ct.	8	Ductile Iron	135	COV 1998	233	1.22	0.01	0.000
P-7339	Ginger Tr.	8	Ductile Iron	135	COV 1998	717	69.74	0.45	0.090
P-7340	Cinnamon Ct.	8	Ductile Iron	135	COV 1998		1.22	0.01	0.000
P-7341	Ginger Tr.	8	Ductile Iron	135	COV 1998	1177	67.30	0.43	0.140
P-7342	Station St.	8	Asbestos Cement	125	COV 1963	1559	-73.87	0.47	0.250
P-7343	Station St.	8	Asbestos Cement	125	COV 1963	2445	139.94	0.89	1.260
P-7344	Hunters Crossing Dr.	16	Ductile Iron	135	COV 1995	1057	-458.97	0.73	0.150
P-7345	Remington Farm Dr.	8	Ductile Iron	135	COV 1995	2150	-51.54	0.33	0.150
P-7346	Moss Ln.	8	Ductile Iron	135	COV 1995	1194	-28.62	0.18	0.030
P-7347	Remington Farm Dr.	8	Ductile Iron	135	COV 1995	1636	24.14	0.15	0.030
P-7348	Remington Farm Dr.	8	Ductile Iron	135	COV 1995	182	-53.99	0.34	0.010
P-7349	Hunters Crossing Dr.	16	Ductile Iron	135	COV 1995	1739	-408.66	0.65	0.190
P-7350	Hunters Crossing Dr.	16	Ductile Iron	135	COV 1995	999	-463.87	0.74	0.140
P-7351	Red Barn Ct.	8	Ductile Iron	135	COV 1995	577	-47.20	0.30	0.030
P-7352	Red Barn Ct.	8	Ductile Iron	135	COV 1995	181	1.22	0.01	0.000
P-7353	Ginger Tr.	8	Ductile Iron	135	COV 1998	272	3.67	0.02	0.000
P-7354	Almond Way	8	Ductile Iron	135	COV 1998	247	1.22	0.01	0.000
P-7355	Ginger Tr.	8_	Ductile Iron	135	COV 1998	426	1.22	0.01	0.000
P-7356	Wildflower Dr.	8	Ductile Iron	135	COV 1995	1011	-49.65	0.32	0.070
P-7357	Hunters Crossing Dr.	16	Ductile Iron	135	COV 1995	870	-417.89	0.67	0.100
P-7358	Hunters Crossing Dr.	16	Ductile Iron	135	COV 1995	217	-468.76	0.75	0.030
P-7359	Silo Ln.	8	Ductile Iron	135	COV 1995	268	1.22	0.01	0.000
P 7360	Hunters Crossing Dr.	16	Ductile Iron	135	COV 1995	1071	-471.21	0.75	0.150
P-7361	Knotty Oak Rd.	16	Ductile Iron	135	COV 1995	477	-472.43	0.75	0.070
P-7362	Knotty Oak Rd.	12	Asbestos Cement	125	COV 1962	2072	-528.74	1.50	1,730
P-7363	Gervais St.	12	Ductile Iron	140	COV 2005	2063	55.08	0.16	0.020
P-7364	Breezy Lake Dr.	6	Asbestos Cement	125	COV 1965	323	3.67	0.04	0.000
P-7365	Breezy Lake Dr.	6	Asbestos Cement	125	COV 1965	642	1.33	0.02	0.000
P-7366	Breezy Lake Dr.	6	Asbestos Cement	125	COV 1965	191	0.11	0.00	0.000
P-7367	Breazy Lake Dr	6	Asbestos Cement	125	COV 1965	898	-1.11	0.01	0.000
P.7368	Gervais St	12	Ductile Iron	140	COV 2005	468	50.18	0.14	0.000
P-7369	La Forge Dr	8	Asbestos Cement	125	COV 1968	455	15.91	0.10	0.000
P-7370	Viola St.	6	Asbestos Cement	125	COV 1968	487	5.16	0.06	0.000
P.7371	Viola St	6	Asbestos Cement	125	COV 1968	406	1.87	0.02	0.000
P-7372	Viola St	6	Asbestos Cement	125	COV 1968	338	0.64	0.01	0.000
P.7373	Viola St	6	Asbestos Cement	125	COV 1968	331	1.22	0.01	0,000
P-7374	Short Way Dr	6	Asbestos Cement	130	COV 1971	394	-1.81	0.02	0.000
P.7375	Centennial St	8	Asbestos Cement	130	COV 1971	388	-2.07	0.01	0.000
P.7376	Centennial St	8	Asbestos Cement	130	COV 1971	211	-0.96	0.01	0.000
P-7377	La Forme Dr	8	Asbestos Cement	125	COV 1968	493	-2.18	0.01	0.000
P_7378	La Casa Dr	6	Ashestos Cement	130	COV 1970	439	6.12	0.07	0.000
P-7370	La Cada Dr.	8	Asbestos Cement	125	COV 1968	622	- 9 .52	0.06	0.000
D 7290	La Caca Dr		Ashestos Cement	130	COV 1970	424	4.90	0.06	0.000
D 7281	Shee Dr.	8	Ductile iron	130	COV 1989	165	3.67	0.02	0.000
P-7292	Sheri Dr		Ductile Iron	130	COV 1989	542	1.22	0.01	0.000
D.7202	Sheri Dr		Ouctile Imn	130	COV 1989	334	1.22	0.01	0.000
D 7304	Centeoniel St	- <u>0</u>	Ashestos Coment	130	COV 1971	1002	0.00	0.00	0.000
P-1304	Conton-int St		Distile Imn	130	COV 1989	362	1.22	0.01	0.000
D 7000	Country View Dr		Ductile Imn	130	COV 1989	369	-2.45	0.02	0.000
D 7397	Broakfield Pd		Ducille Imn	135	COV 1991	640	1.22	0.01	0.000
D.7390	Country View Dr	- <u> </u>	Ductile Iron	130	COV 1989	1180	-4.90	0.03	0.000
P 7300	Generic St	12	Ductile imn	140	COV 2005	360	-29.38	0.08	0.000
P-1390	Generic St.	12	Durtile imn	140	COV 2005	355	-8.57	0.02	0.000
P-/391	Bond View Dr	- 14	Achestos Cament	125	COV 1966	314	2.45	0.03	0.000
P-/392	Pond VIEW UT.		Achaetee Coment	125	COV 1966	498	0.71	0.01	0.000
P-/393	Pond View Dr.		Acheetoe Coment	125	COV 1966	983	-0.52	0.01	0.000
P-7394	Pond View Dr.		Ductile Imp	140	COV 2005	501	-33.05	0.09	0.000
P-7395	Gervals St.		Ductile Iron	140	COV 2005	787	19.58	0.06	0.000
P-7396	Blackrock Rd.		Asherten Comont	115	COV 1949	2311	- 6.35	0.04	0.000
P-7397	Blackrock Rd.		Aspestos Centent	40	COV 1928	1294	5.13	0.06	0.050
P-7398	Congdon St.			125	COV 1002	56	14 69	0.17	0.000
P-7399	Boston St.		Achectics Compart	135	COV 1962	1344	7.33	0.08	0.010
P-7400	Puntan Ave.	<u>p</u>	Ductile ime	125	COV 1992	1778	6.10	0.07	0.010
P-7401	Benort St.		Card Inc	- 135 A0	COV 1028	188	6.14	0.07	0.010
P-7402	Boston St.			40	COV 1020	1160	3.69	0.04	0.020
P-7403	Boston St.			40	COV 1920	1037	1 22	0.01	0.000
P-7404	irene St.		Aspestos Cement	120	COV 1080	25	0.00	0.00	0.000
P-7406	Mishnock Well 1	8		120	COV 1999	146	0.00	0.00	0.000
P-7407	Mishnock Well 1	12	Aspestos Cement	130	COV 1909	140	0.00	1 0.00	0.000
P-7408	Mishnock Well 1	8	Ductrie Iron	130	COV 1969	146	0.00	0.00	0.000
P-7409	Mishnock Well 2	12	Ductile Iron	130	COV 1969	140	0.00	0.00	0.000
P-7410	Mishnock Well 2	12	Asbestos Cement	130	COV 1969	100	0.00	0.00	0.000
P-7412	Mishnock Well 3	8	Ductile Iron	130	1 COV 1969	<u> </u>	0.00	1 0.00	0.000

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[shal	Description	Diameter	Matoriel	Hazen- Williams C	Notae	Lepath (ft)	Discharge (com)	Velocity (ft/s)	Calculated Friction Headloss (ff)
D.7412	Michaack Well 3		Ductile imp	130	COV 1090	177	0.00	0.00	0.000
P-7413	Mishnock Well 3	- 0	Ductile Iron	130	COV 1989	25	0.00	0.00	0.000
P-/414	Michoock Mielic	12	Ductile Iron	130	COV 1989	518	0.00	0.00	0.000
P-7415	Mishinger Works	12	Ductile Imp	130	COV 1989	316	-1.23	0.00	0.000
P.7417	Nosseneck Hill Rd	12	Asbestos Cement	125	COV 1965	930	-2.45	0.01	0.000
P-7417	Linda Ct. (Private)	6	Ashestos Cement	125	COV 1966	188	1.22	0.01	0.000
P-7410	Nooseneck Hill Rd	12	Ashestos Cement	125	COV 1965	866	-4.90	0.01	0.000
P-7413	Steers I n	6	Ashestos Cement	125	COV 1966	116	18.47	0.21	0.010
P 7421	Steere Ln.		Ashestos Cement	125	COV 1966	301	1.22	0.01	0.000
0 7422	Macie Post Ed		Ashestos Cement	125	COV 1965	1393	16.02	0.18	0.050
P-7424	Comfort Way (Private)	6	Ductile Iron	130	COV 1989	258	1.22	0.01	0.000
P.7424	Noceneck Hill 8d	12	Ashestos Cement	125	COV 1965	2954	-54.69	0.16	0.040
P-7420	Lane & (Private)		Ashestos Cement	125	COV 1965	83	7.89	0.09	0.000
P-7420	ano A (Private)	6	Ashestos Cement	125	COV 1965	304	4.23	0.05	0.000
P.7430	Lane A (Private)	ő	Ashestos Cement	125	COV 1965	301	1.91	0.02	0.000
P-7431	Lane A (Private)	6	Asbestos Cement	125	COV 1965	1209	0.69	0.01	0.000
P-7412	Lane A (Private)	6	Asbestos Cement	125	COV 1965	311	-0.53	0.01	0.000
P-7433	1 ane B (Private)	6	Ashestos Cement	125	COV 1965	1287	-1.09	0.01	0.000
P.7434	Lane A (Private)	6	Asbestos Cement	125	COV 1965	328	-0.67	0.01	0.000
P-7435	Lane C (Private)	6	Asbestos Cement	125	COV 1965	688	-1.89	0.02	0.000
P-7436	Lane C (Private)	6	Asbestos Cement	125	COV 1965	672	-2.44	0.03	0.000
P-7437	Lane A (Private)		Asbestos Cement	125	COV 1965	209	5.57	0.06	0.000
P-7438	Lane D (Private)	6	Asbestos Cement	125	COV 1965	662	1.90	0.02	0.000
P-7439	Lane D (Private)	6	Asbestos Cement	125	COV 1965	197	0.68	0.01	0.000
P-7440	Lane A (Private)	6	Asbestos Cement	125	COV 1965	301	2.45	0.03	0.000
P-7441	Lane F (Private)	6	Asbestos Cement	125	COV 1965	864	1.22	0.01	0.000
P.7442	Fairview Ave.	6	Cast iron	70	COV 1887	1325	-52.21	0.59	1.310
P-7443	Jefferson Dr.	8	Asbestos Cement	130	COV 1977	1505	-1.22	0.01	0.000
P-7444	Jefferson Dr	8	Asbestos Cement	130	COV 1977	1120	6.05	0.04	0.000
P-7445	Adams Dr.	8	Asbestos Cement	130	COV 1977	653	23.26	0.15	0.010
P-7446	Old Misbnock Tr.	8	Ductile Iron	135	COV 1993	1337	-20.44	0.13	0.020
P-7447	Old Mishnock Tr.	8	Ductile Iron	135	COV 1993	652	-6.83	0.04	0.000
P-7448	Sycamore Dr.	8	Ductile Iron	135	COV 1994	479	-8.05	0.05	0.000
P-7449	Sycamore Dr.	8	Ductile Iron	135	COV 1994	600	-9.28	0.06	0.000
P-7450	Stratford Dr.	8	Ductile Iron	135	COV 1994	561	-14.83	0.09	0.000
P-7451	Sycamore Dr.	8	Ductile Iron	135	COV 1994	431	-25.33	0.16	0.010
P 7452	Melrose Dr.	8	Ductile Iron	135	COV 1993	1000	14.40	0.09	0.010
P-7453	Sycamore Dr.	8	Ductile Iron	135	COV 1994	561	-40.96	0.26	0.030
P-7454	Pine Hill Rd.	8	Ductile Iron	135	COV 1994	139	1.22	0.01	0.000
P-7455	Pine Hill Rd.	8	Ductile Iron	135	COV 1994	258	-43.41	0.28	0.010
P-7456	Mishnock Rd.	12	Ductile Iron	130	COV 1989	699	278.08	0.79	0.170
P-7457	Helen Ave.	6	Asbestos Cement	120	COV 1954	863	6.99	0.08	0.010
P-7458	Helen Ave.	6	Asbestos Cement	120	COV 1954	274	5.76	0.07	0.000
P-7459	Linwood Dr.	6	Asbestos Cement	125	COV 1962	714	-0.57	0.01	0.000
P-7460	Noella Ave.	6	Asbestos Cement	125	COV 1960	293	-8.93	0.10	0.000
P-7461	Helen Ave.	6	Asbestos Cement	120	COV 1954	150	-15.05	0.17	0.010
P-7462	Noella Ave.	6	Asbestos Cement	125	COV 1960	178	7.14	80.0	0.000
P-7463	Laurie Ave.	6	Asbestos Cement	130	COV 1970	812	1.82	0.02	0.000
P-7464	Linwood Dr.	6	Asbestos Cement	125	COV 1962	431	-5.10	0.06	0.000
P-7465	Noella Ave.	6	Asbestos Cement	125	COV 1960	437	4.09	0.05	0.000
P-7467	Lorraine Ave.	6	Asbestos Cement	120	COV 1959	811	-1.22	0.01	0.000
P-7468	Helen Ave.	6	Asbestos Cement	120	COV 1954	327	-4,90	0.06	0.000
P-7469	Deborah Ave.	6	Asbestos Cement	125	COV 1962	779	0.42	0.00	0.000
P-7470	Linwood Dr.	6	Asbestos Cement	125	COV 1963	427	-3.25	0.04	0.000
P-7471	Noella Ave.	6	Asbestos Cement	125	COV 1963	480	2.45	0.03	0.000
P-7472	Noella Ave.) 6	Asbestos Cement	125	COV 1962	4/1	1.22	0.01	0.000
P-7473	Deborah Ave	6	Asbestos Cement	125	COV 1962	62	-1.22	- 0.01	0.000
P-7474	Linwood Dr.	6	Asbestos Cement	125	COV 1963	125	2.45	0.03	0.000
P-7475	Fairview Ave.	6	Cast iron	70	COV 1887	96	-03.44	0.61	0,100
P-7476	Lorraine Ave.	6	Asbestos Cement	120	COV 1959	144	0.00	0.00	0.000
P-7477	Hopkins Hill Rd.	12	Ductile Iron	130	COV 1989	8/3	-306.81		0.200
P-7478	Linwood Dr.	6	Asbestos Cement	125	COV 1963	109	205.60	0,00	0.000
P-7479	Hopkins Hill Rd.	12	Ductile iron	130	COV 1989	248	305.59	0.07	0.070
P-7480	Hopkins Hill Rd.	12	Ductile Iron	130	COV 1989	18	2.40		0.000
P-7481	Maude Ave.	6	Aspestos Cement	120	- COV 1958	1333	0.00	0.00	0.000
P-7482	Helen Ave.	6	Aspestos Cement	120	COV 1904	246	1 22	0.00	0.000
P-7483	Helen Ave.	6	Asbestos Cement	120	COV 1934	107	0.00	0.01	0.000
P-7484	Helen Ave.	6	Aspestos Cement	120	COV 1934	187	_1 22	0.00	0.000
P-7485	Hopkins Hill Rd.	12	Ductile Iron	130	COV 1909	300	201 02	1 22	0.230
P-7486	Johnson Bivd.	10	Asbestos Cement	125	COV 1901	662	1 22	0.01	0.000
P-7487	Rosemary St.	6	Asbestos Cement	125	COV 1902	268	-308.03	0.87	0.080
P-7488	Hopkins Hill Rd.	12	Ductile Iron	1.50	COV 1909	200	_354 88	1 01	0.110
P-7489	Hopkins Hill Rd.	12	Ductile iron	130	COV 1969	200	-401 76	1.14	0.160
P-7490	Hopkins Hill Rd.	12	Ductile Iron	130	COV 1969	430	0.00	0.00	0.000
P-7491	Clifton Ave.	6	Aspestos Cement	120	COV 1967	260	1.22	0.01	0.000
P-7492	Marion Ave.	6	Aspestos Cement	120	COV 1904	468	-2.45	0.03	0.000
P-7493	Clifton Ave.	6	ASDESIOS CEITIENT	1 120					

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	.	Diameter		Hazen-	b ioto -	1	Discharge	Velocity	Calculated Friction
Label	Description	(in)	Material	WHIIIams C	Notes	Length (It)	(gpm)	(17/8)	neacioss (ft)
P-7494	Hopkins Hill Rd.		Ductile Iron	130	COV 1989	1270	-402.96	1.14	0.190
P-7495	Hopkins Hill Rd.	12	Ductile Iron	130	COV 1989	1379	-404.21	1.15	0.000
P-/490	Tiogue Ave.	12	Aspestos Cement	110	COV 1940	558	0.00	0.01	0.000
2.7497	Coventry/Spring Lake Well	9	Ductile Iron	130	COV 1989	314	0.00	0.00	0.000
P.7400	Covento/Spring Lake Welt	8	Ductile Imn	130	COV 1989	25	0.00	0.00	0.000
P.7500		8	Ashestos Cement	115	COV 1948	174	0.00	0.00	0.000
2,7501	Esiciew Ave		Cast imn	70	COV 1887	217	-54.66	0.62	0.230
-7502		12	Ashestos Cement	125	COV 1962	64	0.00	0.00	0.000
2,503	Tique Ave	8	Ductile Imn	135	COV 1995	69	-32,55	0.21	0.000
2-7504	Tique Ave	12	Asbestos Cement	125	COV 1962 ·	1345	-70.60	0.20	0.030
P-7505	Tiogue Ave	12	Asbestos Cement	125	COV 1962	117	-31.33	0.09	0.000
-7506	Tiogue Ave.	12	Ductile Iron	140	COV 2000	57	-40.50	0.11	0.000
P-7507	Tique Ave.	12	Asbestos Cement	125	COV 1962	2581	-41.72	0.12	0.020
P-7508	Tioque Ave.	12	Asbestos Cement	125	COV 1962	313	202.15	0.57	0.040
P-7509	Tioque Ave.	12	Asbestos Cement	125	COV 1962	1493	200.93	0.57	0.210
P-7510	Tique Ave.	12	Asbestos Cement	125	COV 1962	1412	199.70	0.57	0.190
P-7511	South Main St.	8	Asbestos Cement	115	COV 1948	326	-33.78	0.22	0.010
-7512	Lowell St.	6	Asbestos Cement	115	COV 1949	579	4.90	0.06	0.000
P-7513	Robbins Dr.	6	Asbestos Cement	115	COV 1949	437	2.45	0.03	0.000
P-7514	Robbins Dr.	6	Asbestos Cement	115	COV 1949	671	1.22	0.01	0.000
P-7516	Lowell St	6	Asbestos Cement	115	COV 1949	416	1.22	0.01	0.000
P-7517	South Main St	8	Asbestos Cement	115	COV 1948	1641	-39.90	0.25	0.100
P-7518	Barber St	2	Galvanized iron	65	COV 1898	784	3.67	0.38	1.370
P-7519	Can's Tr.	1	Galvanized iron	65	COV 1927	372	1.22	0.50	2.480
P-7520	Barber St	<u> </u>	Galvanized iron	65	COV 1927	257	1.22	0.50	1.720
P-7521	Fairview Ave	6	Cast iron	70	COV 1887	1007	6.12	0.07	0.020
P-7522	Woodside Ave	6	Cast iron	45	COV 1939	340	-42.24	0.48	0.510
P-7523	South Main St.	8	Asbestos Cement	115	COV 1948	246	291.11	1.86	0.570
P-7524	South Main St	8	Asbestos Cement	115	COV 1948	484	-44.79	0.29	0.040
P-7525	South Main St.	8	Asbestos Cement	115	COV 1948	315	-307.03	1.96	0.810
P-7526	South Main St	8	Asbestos Cement	115	COV 1948	644	-310.70	1.98	1.690
P-7527	Magor Dr	6	Asbestos Cement	125	COV 1961	632	2.45	0.03	0.000
P-7528	Homestead Dr.	6	Asbestos Cement	125	COV 1961	325	1.22	0.01	0.000
P-7529	Stone St		Cast iron	50	COV 1940	413	7.34	0.08	0.020
P-7530	Stone St	2	Cast iron	50	COV 1940	483	1.22	0.13	0.180
P-7531	Beaton St		Asbestos Cement	115	COV 1948	614	3.67	0.04	0.000
P-7532	Sunanee Ct	6	Asbestos Cement	120	COV 1957	243	1.22	0.01	0.000
P.7522	Sunanee Ct	- Ă	Asbestos Cement	120	COV 1957	803	1.22	0.01	0.000
D.7524	South Main St		Ashestos Cement	115	COV 1948	512	-319.27	2.04	1.420
P.7535	South Main St	16	Cast imn	75	COV 1890	690	-1329.89	2.12	2.020
P.7538	South Main St	16	Cast iron	75	COV 1890	167	-1179.62	1.88	0,390
D-7537	South Main St	16	Cast imn	75	COV 1890	449	-1153.72	1.84	1.010
P-7538	Rank St	8	Cast iron	60	COV 1890	240	1.22	0.01	0.000
P.7530	Parkar St	8	Ductile Iron	140	COV 2001	763	182.29	1.16	0.520
P.7540	Fammat Dr		Asbestos Cement	125	COV 1969	645	-27.12	0.31	0.060
D_7541	Kilton St	<u> </u>	Ductile Imn	140	COV 2001	618	-151.50	0.97	0.300
P.7542	Honkine Hill PA	12	PVC	130	COV 1986	685	-245.10	0.70	0.130
D-7542	Pottere St		Ashestos Cement	120	COV 1950	328	9.79	0.11	0.010
D.7544	Potters St.		Ashestos Cament	120	COV 1950	225	2.45	0.03	0.000
D 7545	Process Aus		Ashestoc Cement	120	COV 1952	454	-1.22	0.01	0.000
D 7640	Prospect AVE.		Acheetoe Comon	120	COV 1950	423	-2.45	0.03	0.000
P-/ 546	Litetti St.		Achectos Camani	120	COV 1950	778	-6.12	0.07	0.010
<u>P-/54(</u>	vvoodiand Ave.	<u>e</u>	Ashestos Comort	120	COV 1950	315	2.45	0.03	0.000
P 7540	WOOdiand Ave.		Ashestos Cement	120	COV 1950	261	1.22	0.01	0.000
P-/049	VINOWOOD SL		Ashestos Comont	115	COV 1948	359	304.58	1.94	0.910
P 7554	South Main St.		Acheetoe Comont	115	COV 1948	270	302.13	1.93	0.670
P-/551	South Main St.		Connor	70	COV 1941	1131	1.22	0.13	0.230
P-7552	Rambun St	- 2	Continn	70	COV 1890	1207	1009 40	1.61	2.120
P-7553	Wood St.	16	Castiron		COV 1987	303	283	0.03	0.000
P-7554	Fairview Ave.	- 0	Castimn	75	COV 1890	1078	1005 73	1.60	1.880
P-7555	vvood St.		Achemica Comort	120	COV 1053	548	1.22	0.01	0.000
P-7556	Brentwood Dr.		Aspestos Cement	76	COV 1800	669	1003 28	1.60	0.990
P-7557	VV00 St.		Castinon	75	COV 1890	448	1509.71	2.41	1.660
P-7558	Wood St.		Columpired into		COV 1037	501	2 45	0.25	2.040
P-7559	Williams St.	<u> 2</u>		120	COV 1954	607	1.22	0.01	0.000
P-7560	Williams St.		Aspestos Cement	120	COV 1890	527	2.07	0.02	0.010
P-7561	Spencer St.	6		- 30	COV 1030	351	-356 10	1.01	0.160
P-7562	Tiogue Ave.	12	Aspestos Cement	115	COV 1949	3621	-364 87	1.03	1.780
P-7563	Tiogue Ave.	12	Aspestos Cement	115	COV 1949	457	267 12	1 04	0.220
P-7564	Tiogue Ave.	12	Aspestos Cement	110	COV 1949	544	1 22	0.01	0.000
P-7565	Whitman St.	6	Aspestos Cement	120	COV 1909	330	7 34	0.08	0.000
P-7566	Clearview Dr.	6	Aspestos Cement	120	COV 1954	333	4 90	0.06	0.000
P-7567	Wendeil St.	6	Aspestos Cement	120	COV 1954	125	2 45	0.03	0.000
P-7568	Wendell St.	6	Aspestos Cement	120	COV 1904	855	1 22	0.01	0.000
P-7569	Forestdale St.	6	Aspestos Cement	120	COV 1905	533	1.22	0.01	0.000
P-7570	Pinehurst St.		Aspestos Cement	120	COV 1952	375	1.22	0.01	0.000
P-7571	Clearview Dr.	1 6	Aspestos Cement	1 120	0001004				

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1			Diameter		Hazen-		1	Discharge	Velocity	Friction
	Label	Description	(in)	Material	Williams C	Notes	Length (ft)	(apm)	(ft/s)	Headloss (ft)
-	P-7572	Tobin St.	6	Ductile Iron	130	COV 1989	379	0.84	0.01	0.000
F	P-7573	Card St.	6	Cast iron	30	COV 1887	541	1.60	0.02	0.000
~ 1	P-7574	Montana Ave.	3	Galvanized iron	30	COV 1933	499	5.29	0.24	1.000
	P-7575	Montana Ave.	- 3	Galvanized iron	30	COV 1933	308	4.89	0.22	0.530
	P-7576	Montana Ave.	3	Galvanized iron	30	COV 1933	300	1.22	0.06	0.040
	P-7577	Montana Ave.	3	Galvanized iron	30	COV 1933	302	-1.23	0.06	0.040
Ĩ	P-7578	Alaska St.	2	Galvanized iron	30	COV 1933	611	-2.45	0.25	2.110
[P-7579	Arizona St.	2	Galvanized iron	30	COV 1933	752	-2.05	0.21	1.870
	P-7580	Idaho St.	2	Galvanized iron	30	COV 1933	706	1.22	0.13	0,670
	P-7581	Colorado St.	2	Galvanized iron	30	COV 1933	681	1.22	0.13	0.650
	P-7582	Arizona St.	2	Galvanized iron	30	COV 1933	204	1.22	0.13	0.190
	P-7583	Idaho St.	2	Galvanized iron	30	COV 1933	382	1.22	0.13	0.370
- 1	P-7584	Lakeside Dr.	3	Galvanized iron	30	COV 1933	699	2.45	0.11	
	P-7585	Lakeside Dr.	2	Galvanized iron	30	COV 1933	1353	1.22	0.13	1.290
	P-7586	South Main St.	16	Cast iron	75	COV 1890	355	-1338.46	2.14	1.050
	P-7587	Main St.	16	Cast iron	75	COV 1890	800	-1339.68	2.14	2.380
- 1	P-7588	Amold Rd.	16	Cast iron	75	COV 1890	521	766.34	1.22	0.550
	P-7589	Amold Rd.	16	Cast iron	75	COV 1890	117	763.89	1.22	0.120
	P-7590	Sand St.	6	Asbestos Cement	125	COV 1963	242	1.22	0.01	0.000
	P-7591	Overview Dr.	2	Copper	70	COV 1940	918	0.47	0.00	0.120
	P-7592	Overview Dr.	6	Asbestos Cement	115	COV 1949	124	1.22	0.01	0.000
	P-7593	Oak Rd.	8	Ductile from	140	COV 2000	32/	2 45	0.01	0.000
~~	P-7594	Pine Ave.	8	Ductile Iron	140	COV 2000	044	67 41	0.02	0.000
	P-7595	Pine Ave.	10	Cart ima	75	COV 1990	218	759.52	1.21	0.230
	P-/596		10	Castima	75	COV 1890	176	-760 22	1.21	0.180
	P-/59/	Amold K0.	40 2	Ductile imp	140	COV 2000	442	73.07	0.47	0.060
	P-/596	Lambmont Dr.	8	Asbestos Coment	125	COV 1966	265	1.22	0.01	0.000
-	F-/389	Larchmont Dr.		Achestos Cament	125	COV 1966	1443	-75.51	0.48	0.240
	P-7600	Latomion Dr.	8	Ashestos Cement	125	COV 1966	619	-163.25	1.04	0.420
	P-7001	TOIK DI.	8	Asbestos Cement	120	COV 1959	300	-165.70	1.06	0.230
	P-7002	Coventer Dr	6	Asbestos Cement	120	COV 1959	269	-65.07	0.74	0.150
	P-7604	Ada Ct	8	Asbestos Cement	120	COV 1959	268	1.22	0.01	0.000
	P-7604	Coventry Dr	6	Ashestos Cement	120	COV 1959	371	-67.51	0.77	0.220
	P-7606	Audrey Ct	6	Asbestos Cement	120	COV 1959	255	1,22	0.01	0.000
	P-7607	Coventry Dr.	6	Asbestos Cement	120	COV 1959	759	-69.96	0.79	0.470
	P-7608	Tique Ave.	20	Ductile Iron	140	COV 2000	542	518.30	0.53	0.030
	P-7609	Tioque Ave.	20	Ductile Iron	140	COV 2000	347	-406.66	0.42	0.010
	P-7610	Lignel Ave.	8	Asbestos Cement	120	COV 1959	720	110.42	0.70	0.260
	P-7611	Charlotte St.	6	Asbestos Cement	120	COV 1959	176	35.10	0.40	0.030
	P-7612	Charlotte St.	6	Asbestos Cement	120	COV 1959	611	33.88	0.38	0.100
	P-7613	Morris St.	6	Asbestos Cement	120	COV 1959	491	58.10	0.66	0.220
	P-7614	Coventry Dr.	6	Asbestos Cement	120	COV 1959	162	101.85	1.16	0.200
	P-7615	Lionel Ave.	8	Asbestos Cement	120	COV 1959	605	74.10	0.47	0.100
	P-7616	Morris St.	6	Asbestos Cement	120	COV 1959	279	25.44	0.29	0.030
	P-7618	Lionel Ave.	8	Asbestos Cement	120	COV 1959	369	47.43	0.30	0.030
	P-7619	Coventry Dr.	6	Asbestos Cement	120	COV 1959	561	46.20	0.52	0.160
	P-7620	Coventry Dr.	6	Asbestos Cement	120	COV 1959	196	44.98	0.51	0.050
	P-7621	York Dr.	8	Asbestos Cement	125	COV 1966	1014	86.51	0.55	0.210
	P-7622	Angelwood Dr.	6	Asbestos Cement	120	COV 1959	413	-88.83	1.01	0.400
	P-7623	Angelwood Dr.	6	Asbestos Cement	120	COV 1959	556	-45.62	0.52	0.100
	P-7624	Lawnwood Rd.	6	Asbestos Cement	125	COV 1969	629	-44.43	0.50	0.100
	P-7625	Lawnwood Rd.	6	Asbestos Cement	125	COV 1969	409	474 44	0.52	1 520
	P-7626	York Dr.	8	Asbestos Cement	125	COV 1906	0/7	297 22	0.81	0.260
	P-7627	Johnson Blvd.	12	Aspestos Cement	120	COV 1901	530	1 22	0.01	0 000
	P-7628	West Lake Dr.		Asbestos Comert	120	COV 1951	345	-289 68	1.18	0.250
	P-7629	Johnson BMG.	10	Achieve Coment	120	COV 1962	714	1.22	0.01	0.000
<u> </u>	P-7630	Leoo St.	10	Achastos Cement	120	COV 1956	326	-292.13	1.19	0.240
	P-7631	Jonnson Biva.		Ashactos Coment	125	COV 1962	314	6.12	0.07	0.000
	P-/632	Majone St.	- <u>v</u>	Ashestos Cement	125	COV 1962	502	2,45	0.03	0.000
	P-/633	Combin St	4	Acheetos Coment	125	COV 1961	205	1.22	0.01	0.000
	D 7005	Edna St		Asbestos Cement	125	COV 1961	405	2.45	0.03	0.000
	P.7626	Nancy St		Asbestos Cement	125	COV 1960	266	1.22	0.01	0.000
	D.7627	kohneon Rivel	10	Asbestos Cement	120	COV 1956	924	-299.47	1.22	0.710
	P.7619	Johnson Blvd. PS	16	Ductile Iron	135	COV 1991	344	1197.93	1.91	0.280
	P 7620	Johnson Blvd, PS	16	Ductile from	135	COV 1991	1263	-1199.16	1.91	1.030
	P-7640	Johnson Blvd. PS	16	Ductile Iron	135	COV 1991	266	-1200.38	1.92	0.220
	P.7641	Johnson Blvd. PS	16	Ductile Iron	135	COV 1991	441	-1201.61	1.92	0.360
	P-7642	Johnson Bivd.	12	Asbestos Cement	125	COV 1961	385	372.38	1.06	0,170
	P-7643	Johnson Bivd.	12	Asbestos Cement	125	COV 1961	322	371.15	1.05	0,140
	P-7644	Colonial Rd.	6	Asbestos Cement	125	COV 1966	474	32.10	0.36	0.060
	P-7645	Colonial Rd.	6	Asbestos Cement	125	COV 1966	492	30.88	0.35	0.000
	P-7646	Colonial Rd.	6	Asbestos Cement	125	COV 1966	297	29.66	0.34	0.040
	P-7647	Johnson Blvd.	12	PVC	135	COV 1991	513	301.83	1 0.90	0.100
	P-7648	Johnson Blvd.	12	PVC	135	COV 1991	- 309	300.20	0.82	0.020
	P-7649	Arnold Rd.	16	Cast iron	75	UCOV 1890	02	300.00	0.02	<u></u>

T			1							Calculated
			Diameter		Hazen-	Net	معد مر	Discharge	Velocity	Friction
	Label	Description	(in)	Material	Williams C	Notes	Length (ft)	(gpm)	(17/8)	rieadioss (ft)
ļ	P-7650	Arnold Rd.	16	Cast iron	/5	0001890	1238	-010.15	1.30	1.470
_	P-7662	Amoki Ka.	10	Ductile less	140	COV 1690	348	724.12	0.05	0.470
·	P-7653		8	Ductile imn	140	COV 2001	316	1.22	0.01	0.000
	P-7654	Twin Lakes Ave.	8	Ductile Iron	140	COV 2001	233	4.90	0.03	0.000
	P-7655	Henry Ave.	8	Ductile Iron	140	COV 2001	290	1.22	0.01	0.000
	P-7656	Twin Lakes Ave.	8	Ductile Iron	140	COV 2001	235	2.45	0.02	0.000
-	P-7657	Glen Ave.	8	Ductile Iron	140	COV 2001	244	1.22	0.01	0.000
ľ	P-7658	Dixie Rd.	6	Ductile Iron	135	COV 1994	580	1.22	0.01	0.000
	P-7659	Amold Rd.	16	Cast iron	75	COV 1890	628	-22.87	0.04	0.000
	P-7660	Beach St.	2	Copper	70	COV 1954	439	1.22	0.22	1 760
	P-/001	Valo St		Copper	70	COV 1936	613	-2.45	0.25	0.440
-	P-7002 D-7663	A mold Rd	16	Cast imn	75	COV 1890	315	25.32	0.04	0.000
1	P-7666	Quiet Ave.	6	Asbestos Cement	125	COV 1966	286	-1.22	0.01	0.000
	P-7667	Cape Way	6	Asbestos Cement	130	COV 1975	132	1.22	0.01	0.000
	P-7669	Lydia Rd	8	Asbestos Cement	125	COV 1963	374	87.74	0.56	0.080
	P-7670	Cove Rd.	6	Asbestos Cement	125	COV 1963	550	2.45	0.03	0.000
1	P-7671	Cove Rd.	6	Asbestos Cement	125	COV 1963	198	1.22	0.01	0.000
	P-7672	Lydia Rd.	8	Asbestos Cement	125	COV 1963	974	84.07	0.54	0.200
	P-7673	Vera Rd.	6	Asbestos Cement	125	COV 1963	300	23.80 -18.40	0.27	0.090
	P-7674	Grant Dr.	<u>0</u> 6	Aspestos Cement	125	COV 1962	590	-21 64	0.25	0.040
-	P-7676	j vdia Rd	0 8	Asbestos Cement	125	COV 1963	346	-58.99	0.38	0.040
	P-7677	Lvdia Rd.	8	Asbestos Cement	125	COV 1963	308	36.12	0.23	0.010
	P-7678	Tulip Rd.	6	Asbestos Cement	125	COV 1963	575	17.93	0.20	0.030
	P-7679	Myra Rd.	6	Asbestos Cement	125	COV 1963	310	-2.00	0.02	0.000
~. - -	P-7680	Lydia Rd.	8	Asbestos Cement	125	COV 1963	998	16.97	0.11	0.010
-	P-7681	Jade Rd.	8	Asbestos Cement	125	COV 1969	315	15.75	0.10	0.000
	P-7682	Jade Rd.	8	Asbestos Cement	125	COV 1969	1209	1.22	0.01	0.000
	P-/683	Myra Rd.	<u> </u>	Aspestos Cement	125	COV 1963	189	-18 70	0.21	0.010
:	P.7695	Holmes Rd	6	Asbestos Cement	120	COV 1954	1148	30.78	0.35	0.160
	P-7686	Reno Ct.	6	Asbestos Cement	125	COV 1969	273	1.22	0.01	0.000
	P-7687	Holmes Rd.	6	Asbestos Cement	120	COV 1954	516	28.33	0.32	0.060
	P-7688	Amold Rd.	16	Cast Iron	75	COV 1890	233	9.97	0.02	0.000
	P-7689	West Shore Dr.	6	Asbestos Cement	125	COV 1966	541	1.22	0.01	0.000
	P-7690	Arnold Rd.	16	Cast iron	75	COV 1890	222	7.52	0.01	0.000
	P-7691	Grant Dr.	6	Asbestos Cement	125	COV 1962	959	41.05	0.00	0.210
	P-7692	Arnold Rd.	16	Cast iron	120	COV 1890	<u> </u>	4/.35	0.08	0.000
	P-7693	Florida Ave.	10	Aspestos Cement	76	COV 1934	308	44.90	0.07	0.000
	P-/694	Amold Kd.	<u> </u>	Ashectos Coment	115	COV 1030	550	1.22	0.01	0.000
****	P-7693	Arnold Rd	16	Cast iron	75	COV 1890	1124	17.14	0.03	0.000
	P-7698	Larch Dr.	8	Asbestos Cement	120	COV 1959	335	9.79	0.06	0.000
	P-7699	Batsam Dr.	6	Asbestos Cement	120	COV 1959	429	4.91	0.06	0.000
	P-7700	Baisam Dr.	6	Asbestos Cement	120	COV 1959	161	2.45	0.03	0.000
	P-7701	Harrington Dr.	6	Asbestos Cement	125	COV 1965	351	1.22	0.01	0.000
	P-7702	Larch Dr.	6	Asbestos Cement	120	COV 1959	839	3.66	0.04	0.000
	P-7703	Larch Dr.	6	Asbestos Cement	120	COV 1959	754	-1.24	0.01	0.000
	P-7704	Larch Dr.	6	Asbestos Cement	120	COV 1959	450	3.0/	0.04	0.000
	P-7705	View Rd.	2	Lopper Achectos Comort	125	COV 1959	459	1.22	0.01	0.000
	P-7707	namington Kd.	16	Cast imn	75	COV 1890	472	6.12	0.01	0.000
	P-7708	Crestwood Rd	8	Asbestos Cement	120	COV 1959	632	3.67	0.02	0.000
	P-7709	North Glen Dr.	6	Asbestos Cement	120	COV 1959	885	1.22	0.01	0.000
	P-7710	South Glen Dr.	6	Asbestos Cement	120	COV 1959	1106	1.22	0.01	0.000
	P-7711	Arnold Rd.	8	Asbestos Cement	125	COV 1969	1303	1.22	0.01	0.000
	P-7712	Amold Rd.	16	Cast iron	75	COV 1890	55	1014.81	1.62	0.100
	P-7714	Tiogue Ave.	16	Ductile Iron	140	COV 2000	424	503.00	0.00	0.030
	P-7715	Tiogue Ave.	20	Ductile Iron	140	COV 2000	1111	682.76	1 94	1,210
	P-7717	Tiogue Ave.	12	Ductile iron	140	COV 2000	126	0.00	0.00	0.000
—	P 7740	Liogue Ave.	- 12 6	Ashestos Coment	120	COV 1953	238	5.61	0.06	0.000
	P.7720	East Shore Dr.		Asbestos Cament	120	COV 1953	961	4.38	0.05	0.000
	P.7721	Darton St.	6	Asbestos Cement	120	COV 1953	289	1.22	0.01	0.000
	P-7722	East Shore Dr.	6	Asbestos Cement	120	COV 1953	324	1.94	0.02	0.000
-	P-7723	Elton St.	6	Aspestos Cement	120	COV 1953	695	-2.96	0.03	0.000
~~~~	P-7724	Mead St.	6	Asbestos Cement	120	COV 1953	311	4.90	0.06	0.000
	P-7725	Seneca St.	6	Asbestos Cement	130	COV 1971	244	1,22	1 0.01	0.000 n 000
	P-7726	Mead St.	6	Asbestos Coment	120	COV 1953	426	1 22	0.01	0.000
	P-7727	Mohawk St.	- 6	Ashestos Cement	120	COV 1953	297	-9.08	0.10	0.000
	P-7720	CIION SL. Tinnae Tank	12	Asbestos Cement	120	COV 1953	2	59.98	0.17	0.000
	P.7731	Tiogue Tank	12	Asbestos Cement	120	COV 1953	94	59.98	0.17	0.000
	P-7732	Tiogue Ave.	12	Ductile Iron	140	COV 2000	47	17.14	0.05	0.000
	P-7733	East Shore Dr.	6	Asbestos Cement	120	COV 1953	778	3.67	1_0.04_	0.000

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- [	Label	Description	Diameter (in)	Materia)	Hazen- Williams C	Notes	Length (ft)	Discharge (gom)	Velocity (ft/s)	Calculated Friction Headloss (ft)
ŀ	P.7734	Mohawk St	6	Asbestos Cement	120	COV 1953	121	1.22	0.01	0,000
- I-	P-7735	Mohawk St.	6	Asbestos Cement	120	COV 1953	<del>9</del> 19	1.22	0.01	0.000
~ F	P-7736	Rawlinson Dr.	6	Asbestos Cement	120	COV 1959	264	-1.22	0.01	0.000
t	P-7737	East Shore Dr.	8	Asbestos Cement	130	COV 1970	548	6.12	0.04	0.000
t l	P-7738	East Shore Dr.	8	Asbestos Cement	130	COV 1970	347	1.22	0.01	0.000
t –	P-7739	Ferris Dr.	6	Ductile Iron	135	COV 1992	455	3.67	0.04	0.000
ľ	P-7740	Ferris Dr.	6	Ductile Iron	135	COV 1992	232	1.22	0.01	0.000
- ľ	P-7741	Ferris Dr.	6	Ductile Iron	135	COV 1992	336	1.22	0.01	0.000
ſ	P-7742	Rawlinson Dr.	6	Asbestos Cement	120	COV 1959	1777	-8.57	0.10	0.020
ľ	P-7743	Tiogue Ave.	12	Asbestos Cement	115	COV 1949	944	-23.87	0.07	0.000
Γ	P-7744	Tiogue Ave.	12	Asbestos Cement	115	COV 1949	68	-41.62	0.12	0.000
[	P-7745	Tiogue Ave.	12	Asbestos Cement	115	COV 1949	326	0.00	0.00	0.000
- [	P-7746	Jennifer Ln.	8	Ductile Iron	135	COV 1992	266	6.12	0.04	0.000
	P-7747	Patience Ln.	8	Ductile Iron	135	COV 1992	432	1.22	0.01	0.000
Ļ	P-7748	Jennifer Ln.	8	Ductile Iron	135	COV 1992	304	3.67	0.02	0.000
	P-7749	Sooner Ln.	8	Ductile Iron	135	COV 1992	432	1.22	0.01	0.000
	P-7750	Jennifer Ln.	8	Ductile Iron	135	COV 1995	723	1.22	0.01	0.000
- [	P-7751	Tlogue Ave.	12	Asbestos Cement	115	COV 1949	1201	674.19	1.91	1.840
- [	P-7752	Gilles St.	8	Ductile Iron	140	COV 2000	488	1.22	0.01	0.000
[	P-7753	Tiogue Ave.	12	Ductile Iron	140	COV 2000	141	670.74	1.91	0.150
	P-7754	Tiogue Ave.	12	Asbestos Cement	125	COV 1965	226	500.00	1.90	0.290
	P-7755	Tiogue Ave.	12	Asbestos Cement	125	COV 1965	462	00.05	1.61	0.400
~ L	P-7756	Old North Rd.	12	PVC	125	COV 1976	94/	39.00	0.28	0.040
1	P-7757	Mulheam Dr. (Private)	6	Ductile Iron	135	COV 1995	211	4.40	0.03	0.000
ļ	P-7758	Mulheam Dr. (Private)	6	Ductile Iron	130	COV 1995	729	0.04	0.01	0.000
	P-7759	Mulheam Dr. (Private)		Ductile from	135	COV 1995	130	04.10	0.01	0.000
ļ	P-7760	Deerfield Rd.	8		140	COV 2000	505	38.67	0.00	0.000
-	P-7761	Deerheid Rd.	10	Aspestos Coment	120	COV 1964	470	37 30	0.42	0.000
	P 7762	Englewood Rd.	- 6	Aspestos Cement	120	COV 1964	753	36.17	0.42	0.030
	P 7763	Kennedy Dr.		Aspestos Cement	120	COV 1987	783	-54 31	0.62	0 280
	P-//64			Asbestos Cement	125	COV 1992	367	89.26	0.57	0.080
	P 7766	Rennedy Ur.	<u> </u>	Achestos Cement	125	COV 1960	717	1.22	0.01	0.000
-	P-1100	Donney St.	4	Ashactos Camant	120	COV 1953	753	1.22	0.01	0.000
	P-7760		12	Ashestos Cement	125	COV 1965	489	655.83	1.86	0.610
	P.7780	Tiogue Ave.	12	Ashestos Cement	125	COV 1965	552	653.38	1.85	0.680
	P.7770		12	Asbestos Cement	125	COV 1965	312	652.16	1.85	0.390
	P-7771	Lantem I n		Asbestos Cament	125	COV 1960	799	1.22	0.01	0.000
- 1	P.7772	Pambmkeln	6	Asbestos Cement	125	COV 1966	374	14.07	0.16	0.010
ļ	P.7773	Columbia Ave	6	Asbestos Cement	120	COV 1959	870	1.60	0.02	0.000
	P.7774	Holloway Ave	6	Asbestos Cement	120	COV 1958	338	-16.53	0.19	0.010
	P.7775	Pembroke Ln	6	Asbestos Cement	125	COV 1966	344	11.25	0.13	0.010
	P.7776	Princeton Ave	8	Asbestos Cement	125	COV 1960	793	4.96	0.03	0.000
-	P-7777	Holloway Ave.	6	Asbestos Cement	120	COV 1958	324	-11.45	0.13	0.010
	P-7778	Pembroke Ln.	6	Asbestos Cement	125	COV 1966	858	5.06	0.06	0.000
	P-7779	Pettine St.	6	Asbestos Cement	120	COV 1959	314	0.91	0.01	0.000
	P-7780	Yale Dr.	6	Asbestos Cement	120	COV 1959	795	-2.24	0.03	0.000
	P-7781	Holloway Ave.	6	Asbestos Cement	120	COV 1958	324	-6.10	0.07	0.000
	P-7782	Pembroke Ln.	6	Asbestos Cement	125	COV 1966	393	2.93	0.03	0.000
	P 7783	Baylor Dr.	6	Asbestos Cement	125	COV 1966	640	0.99	0.01	0.000
	P-7784	Colby Dr.	6	Asbestos Cement	125	COV 1963	632	-0.37	0.00	0.000
	P-7785	Pettine St.	6	Asbestos Cement	120	COV 1959	873	-1.93	0.02	0.000
	P-7786	Pembroke Ln.	6	Asbestos Cement	125	COV 1966	1132	0.72	0.01	0.000
-	P-7787	Bavior Dr.	6	Asbestos Cement	125	COV 1966	324	0.13	0.00	0,000
	P-7788	Pembroke Ln.	6	Asbestos Cement	125	COV 1966	746	-0.37	0.00	0.000
	P-7789	Pettine St.	6	Asbestos Cement	120	COV 1959	484	-0.33	0.00	0.000
	P-7790	Pembroke Ln.	6	Asbestos Cement	125	COV 1966	576	-1.26	0.01	0.000
	P-7791	Yale Dr.	6	Asbestos Cement	120	COV 1959	948	-2.63	0.03	0.000
	P-7792	Yale Dr.	6	Asbestos Cement	120	COV 1959	239	0.14	0.00	0.000
	P-7793	Princeton Ave.	8	Asbestos Cement	125	COV 1960	1094	-9.09	0.06	0.000
	P-7794	Princeton Ave.	8	Asbestos Cement	125	COV 1960	637	8.01	0.05	0.000
	P-7795	Columbia Ave.	6	Asbestos Cement	120	COV 1959	531	-4.23	0.05	0.000 -
_	P-7796	Columbia Ave.	6	Asbestos Cement	120	COV 1959	1889	-5.45	0.06	0.010
	P-7797	Princeton Ave.	8	Asbestos Cement	125	COV 1960	321	11.02	0.07	0.000
	P-7798	Weslevan Ave.	8	Asbestos Cement	125	COV 1967	330	5.13	0.03	0.000
	P-7799	Vanderbilt Ter.	6	Asbestos Cement	130	COV 1976	600	1.55	0.02	0.000
	P-7800	Cornell Ct.	6	Asbestos Cement	125	COV 1967	517	-0.71	0.01	0.000
	P-7801	Princeton Ave.	8	Asbestos Cement	125	COV 1960	630	-4.66	0.03	0.000
	P-7802	Princeton Ave.	8	Asbestos Cement	125	COV 1960	357	2.73	0.02	0.000
	P-7803	Princeton Ave.	8	Asbestos Cement	125	COV 1960	655	1.50	0.01	0.000
	P-7804	Vanderbilt Ter.	6	Asbestos Cement	130	COV 1976	647	1.04		0.000
	P-7805	Princeton Ave.	8	Asbestos Cement	125	COV 1960	485	1.32	0.01	0.000
	P-7806	Wesleyan Ave.	8	Asbestos Cement	125	COV 1967	1745	-2.36	0.02	0.000
	P-7807	Princeton Ave.	8	Asbestos Cement	125	COV 1960	342	0.00	0.00	2 070
	P-7808	Pilgrim Ave.	8	Asbestos Cement	120	COV 1958	1164	3/3.24	2.38	3.970
	P-7809	Donovan St. (Private)	6	Asbestos Cement	120	COV 1958	317	1.22	0.01	1 600
	P-7810	Pilgrim Ave.	8	Asbestos Cement	120	COV 1958	444	370.79	2.31	1.300

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- [	Label	Description	Diameter (in)	Material	Hazen- Williams C	Notes	Length (ft)	Discharge (gpm)	Velocity (ft/s)	Calculated Friction Headloss (ft)
	P-7811	Dexter St.	6	Asbestos Cement	120	COV 1950	705	1.22	0.01	0.000
1	P-7812	Pilgrim Ave.	6	Asbestos Cement	115	COV 1949	1273	368.34	4.18	18.640
~ [	P-7813	Bernard Dr.	6	Asbestos Cement	120	COV 1954	364	1.22	0.01	0.000
	P-7814	Card St	6	Ductile Iron	130	COV 1989	207	1.22	0.01	0.000
	P-7815	Wesleyan Ave.	6	Aspestos Cement	120	COV 1967	382	1.22	0.00	0.000
ļ	P-7816	Manleyan Ave.	6	Aspestos Cement	125	COV 1967	771	-2.45	0.03	0.000
_	P-7818	Piloom Ave	8	Asbestos Cement	120	COV 1958	343	-374,46	2.39	1.180
	P-7819	Reddington St.	6	Asbestos Cement	130	COV 1975	1245	-76.60	0.87	0.790
	P-7820	Laurel Ave.	6	Asbestos Cement	125	COV 1967	382	16.74	0.19	0.020
	P-7821	Laurel Ave.	6	Asbestos Cement	125	COV 1967	321	61.08	0.69	0.140
I	P-7822	Centre St.	8	Asbestos Cement	125	COV 1963	1097	56.59	0.36	0.110
	P-7823	Pilgrim Ave.	8	Asbestos Cement	120	COV 1958	367	299.08	1.91	0.830
	P-7824	Pilgrim Ave.	8	Asbestos Cement	120	COV 1958	460	-243.71	0.43	0.750
	P-7825	Matteson St.	C	Aspestos Cement	125	COV 1967	44R	97.11	1.10	0.480
	P-/820	Laurei Ave.	6	Cast inn	70	COV 1887	835	20.99	0.24	0.150
	P.7828		6	Cast iron	30	COV 1887	281	113.77	1.29	5.620
	P-7829	Laurei Ave.	6	Cast iron	30	COV 1887	300	63.78	0.72	2.060
	P-7830	Laurel Ave.	6	Cast iron	30	COV 1887	201	60.55	0.69	1.250
	P-7831	Taft St.	6	Cast iron	30	COV 1887	559	48.76	0.55	2.330
	P-7832	Taft St.	6	Cast iron	30	COV 1887	301	47.54	0.54	1.200
	P-7833	Greene St.	2	Galvanized iron	30	COV 1946	613	•2.01	0.21	1.470
	P-7834	Taft St.	6	Asbestos Cement	125	COV 1965	676	-21 70	0.55	0.220
	P-7835	Centre St.	6	Achectos Comant	135	COV 1994	1810	25.31	0.16	0.040
	P-/836	Sheltra Ave.	8	PVC	130	COV 1965	418	22.86	0.15	0.010
P	P-7838	Cote Ct.	6	Ductile Iron	140	COV 2000	845	21.64	0.25	0.050
	P-7839	Laurel Ave.	6	Asbestos Cement	125	COV 1969	204	0.00	0.00	0.000
	P-7840	Laurel Ave.	6	Asbestos Cement	125	COV 1969	719	17.97	0.20	0.030
	P-7841	Cote Ct.	6	Ductile Iron	140	COV 2000	577	19.19	0.22	0.020
	P-7842	Cote Ct.	6	Ductile Iron	140	COV 2000	301	1.22	0.01	0.000
	P-7843	Sandy Bottom Rd.	8	Asbestos Cement	125	COV 1965	426	-510.10	2 14	1 300
	P-7844	Main St.	10	Cast Iron	115	COV 1890	99	0.00	0.00	0.000
	P-/845	Station St.	16	Cast imn	75	COV 1890	1163	1340.91	2.14	3.460
	P-7040	Mail St. Bottev Ave	6	Ductile Iron	135	COV 1990	400	1.22	0.01	0.000
	P-7848	Washington St.	16	Cast iron	75	COV 1890	1140	-1854.68	2.96	6.190
	P-7849	Knotty Oak Rd, PS	10	Ductile Iron	135	COV 1995	259	1369.13	5.59	2.660
	P-7851	Knotty Oak Rd.	20	Asbestos Cement	120	COV 1968	404	-3226.25	3.29	0.860
	P-7853	Mapledale St.	6	Cast iron	45	COV 1938	576	-0.91	0.01	0.000
	P-7854	Mapledale St.	4	Cast iron	30	COV 1890	415	-2.13	0.05	0,040
_	P-7855	Mapledale St.	4	Cast iron	30	COV 1890	523	-3.30	0.09	0.110
	P-7856	Mapledale St.	4	Castiron	30	COV 1090	10/	2 45	0.02	0.100
	P-7858	Contentment Dr.		Aspestos Cement	80	COV 1905	1030	1.22	0.01	0.000
	P-7860	Washington St	12	Ductile Iron	140	COV 2004	1482	-13.86	0.04	0.000
	P-7861	Pilarim Ave	6	Asbestos Cement	115	COV 1949	1018	-282.72	3.21	9.130
	P-7862	Pilorim Ave.	6	Asbestos Cement	115	COV 1949	219	114.99	1.30	0.370
	P-7863	Washington St.	12	Cast iron	70	COV 1928	469	398.94	1.13	0.680
	P-7865	Washington St.	12	Cast iron	60	COV 1887	312	-0.83	0.00	0.000
	P-7866	Anthony St.	6	Cast iron	45	COV 1933	1223	0.00	0.00	0.000
	P-7867	Boston St.	6	Cast iron	40	COV 1928	211	0.00	0.00	0.000
	P-7868	Meeting St.	6	Cast Iron	40	COV 1938	681	-1.21	0.01	0.000
	P-/869	Benefit St	0 A	Castimo	45	COV 1938	123	3.65	0.04	0.000
	P.7871	Boston St	6	Cast iron	40	COV 1928	184	-1.24	0.01	0.000
	P-7872	Meeting St.	2	Galvanized iron	30	COV 1938	186	1.22	0.13	0.180
	P-7873	Knotty Oak Rd.	20	Asbestos Cement	120	COV 1968	1176	-3227.47	3.30	2.510
	P-7874	Foster Dr. (Private)	6	Asbestos Cement	115	COV 1947	172	1.22	0.01	0.000
	P-7875	Knotty Oak Rd.	20	Asbestos Cement	120	COV 1968	810	-3229.92	3.30	0.260
	P-7876	Knotty Oak Rd.	20	Asbestos Cement	120	COV 1968	122	704 84	2 00	0.140
	P-7877	Knotty Oak Rd.	12	Asbestos Cement	125	COV 1902	2740	702 40	1.99	3.880
	P-7878	Knotty Oak Rd.	12	Aspestos Cement	125	COV 1962	146	703.62	2.00	0.210
	P-7879	Knotty Oak K6.	20	Asbestos Cament	120	COV 1968	2418	-3232.37	3.30	5.180
	P-/880	White Rock Dr	8	Asbestos Cement	125	COV 1965	759	1.22	0.01	0.000
	P.7882	Knotty Oak Rd.	20	Ductile Iron	140	COV 2005	474	-1901.13	1.94	0.290
	P-7884	Marie Dr.	8	Asbestos Cement	125	COV 1969	660	1.22	0.01	0.000
	P-7885	Marie Dr.	8	Asbestos Cement	125	COV 1969	883	-2.45	0.02	0.000
	P-7886	Marie Dr.	8	Asbestos Cement	125	COV 1969	271	97.61	1.02	0.070
	P-7887	Knotty Oak Rd.	20	Ductile Iron	140	COV 2005	1021	1909.00	1.93	0.620
	P-7888	Knotty Oak Rd.	20	Ductile Iron	140	COV 1990	785	1.22	0.01	0.000
	P-7889	Old Hope Rd.	8	Ouctile Iron	140	COV 2005	7657	-1909.69	1.95	4.660
	P-7890	Knotty Vak Ko.	12	Ductile Iron	130	COV 1989	822	-113.09	0.32	0.040
	P-7892	Clarke Rd.	20	Asbestos Cement	125	COV 1968	884	-1799.06	1.84	0.590

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label	Description	Diameter (in)	Material	Hazen- Williams C	Notes	Length (ft)	Discharge (gpm)	Velocity (ft/s)	Calculated Friction Headloss (ft)
P-7803	Red Oak Dr	8	Ashestos Cement	130	COV 1980	529	-47.62	0.30	0.030
P-7894	luniner Ct	â	Ashestos Cement	130	COV 1979	186	1.22	0.01	0.000
P.7895	Bed Oak Or	A	Asbestos Cement	130	COV 1980	459	-50.07	0.32	0,030
P.7896	Wintermeen Ct	6	Asbestos Cement	130	COV 1981	318	1.22	0.01	0.000
P-7897	Barberry Ct	6	Asbestos Cement	130	COV 1980	318	1.22	0.01	0.000
P-7898	Red Oak Dr.	8	Asbestos Cement	130	COV 1980	481	-53.74	0.34	0.040
P-7899	Honey Locust Ct.	6	Asbestos Cement	130	COV 1979	441	1.22	0.01	0.000
P.7900	Forsythia Ct	6	Asbestos Cement	130	COV 1979	327	1.22	0.01	0.000
P-7901	Red Oak Dr	8	Asbestos Cement	130	COV 1980	1135	-57.41	0.37	0.100
P.7902	Red Oak Dr.	8	Asbestos Cement	130	COV 1980	286	-143.46	0.92	0.140
P 7903	Red Oak Dr.	- 8	Asbestos Cement	130	COV 1980	1011	1.22	0.01	0.000
P 7904	White Pine Rd.	8	Asbestos Cement	130	COV 1980	980	-145 <u>.91</u>	0.93	0.510
P-7905	Crabannle Ct	6	Asbestos Cement	130	COV 1980	303	1.22	0.01	0.000
P-7906	White Pine Rd.	8	Asbestos Cement	130	COV 1980	544	-148.36	0.95	0.290
P-7907	Clarke Rd.	20	Asbestos Cement	125	COV 1968	464	1760.00	1.80	0.300
P-7908	Clarke Rd.	20	Asbestos Cement	125	COV 1968	488	1757.56	1.79	0.310
P-7909	Clarke Rd.	20	Asbestos Cement	125	COV 1968	354	1755.11	1.79	0.230
P-7910	Rosewood Ct.	6	Asbestos Cement	130	COV 1981	409	1.22	0.01	0.000
P-7911	Clarke Rd.	20	Asbestos Cement	125	COV 1968	485	1752.66	1.79	0.310
P-7912	Glenview Ct	8	Asbestos Cement	130	COV 1976	727	1.22	0.01	0.000
P.7013	Labrea Way	8	Ductile Iron	135	COV 1990	890	1.22	0.01	0.000
P-7914	Sunrise Ave	6	Asbestos Cement	130	COV 1953	117	-96.85	1.10	0.110
P-7915	Spencer St.	6	Asbestos Cement	115	COV 1945	130	126.28	1,43	0.260
P-7916	Clarke Rd.	20	Asbestos Cement	125	COV 1968	2358	-1909.59	1.95	1.770
P-7917	Black Walnut Dr.	- 8	PVC	130	COV 1983	359	84.83	0.54	0.070
P.7918	Poplar Ct	8	PVC	130	COV 1980	. 308	1.22	0.01	0.000
P.7010	Black Walout Dr.	8	PVC	130	COV 1983	137	82.38	0.53	0.020
P-7920	Mulberry Ct.	8	PVC	130	COV 1980	294	1.22	0.01	0.000
P-7921	Black Walnut Dr.		PVC	130	COV 1983	433	79.93	0.51	0.070
P-7922	Pin Oak Ct.	8	PVC	130	COV 1980	295	1.22	0.01	0.000
P-7923	Black Walnut Dr.	8	PVC	130	COV 1983	692	77.48	0.49	0.110
P-7924	Birchwood Ln.	8	PVC	130	COV 1980	698	1.22	0.01	0.000
P-7925	Black Walnut Dr.	8	PVC	130	COV 1983	607	75.03	0.48	0.090
P-7926	Brlarwood Ct.	8	PVC	130	COV 1980	298	1.22	0.01	0.000
P-7927	Black Walnut Dr.	8	PVC	130	COV 1983	281	72.59	0.46	0.040
P-7928	Elmwood Ct.	8	PVC	130	COV 1980	184	1.22	0.01	0.000
P-7929	Black Walnut Dr.	8	PVC	130	COV 1983	933	70.14	0.45	0.120
P-7930	Hill SL	24	Ductile Iron	140	COV 2005	603	3395.45	2,41	0.440
P-7931	South Pond Dr.	8	Ductile Iron	135	COV 1998	895	3.67	0.02	0.000
P-7932	South Pond Dr.	8	Ductile Iron	135	COV 1998	1548	1.17	0.01	0.000
P-7933	Evergreen Ct.	8	Ductile Iron	135	COV 1998	776	1.22	0.01	0.000
P-7934	South Pond Dr.	8	Ductile Iron	135	COV 1998	1321	-1.28	0.01	0.000
P-7935	Hill St.	24	Ductile fron	140	COV 2005	1590	3390.56	2.40	1.150
P-7936	Blackrock Rd.	24	Ductile Iron	140	COV 2005	1415	3189.44	2.26	0.920
P-7937	Manning Ct.	6	Asbestos Cement	120	COV 1959	483	-9.79	0.11	0.010
P-7939	Hill St.	8	Asbestos Cement	115	COV 1947	817	199.90	1.28	0.950
P-7940	Blackrock Rd.	24	Ductile Iron	140	COV 2005	349	-3178.42	2.25	0.220
P-7941	Sandalwood Ct.	6	Asbestos Cement	125	COV 1966	419	3.67	0.04	0.000
P-7942	Sandalwood Ct.	6	Asbestos Cement	125	COV 1966	173	1.22	0.01	0.000
P-7943	Hickory Rd.	6	Asbestos Cement	130	COV 1985	1251	1.22	0.01	0.000
P-7944	Blackrock Rd.	24	Ductile Iron	140	COV 2005	498	3177.20	2.25	0.320
P-7945	Hombeam Rd.	8	Asbestos Cement	125	COV 1964_	383	22.78	0.15	0.010
P-7946	Hawthome Rd.	8	Asbestos Cement	125	COV 1964		11.52	0.07	0.000
P-7947	Hawthome Rd.	8	Asbestos Cement	125	COV 1964	682	1.22	0.01	0.000
P-7948	Hombeam Rd.	8	Asbestos Cement	125	COV 1964	1251	0.81	0.00	0.000
P-7949	Reynolds Ct. (Private)	6	Asbestos Cement	125	COV 1964	135	3.0/	0.04	0.000
P-7950	Reynolds Ct. (Private)	6	Asbestos Cement	125	COV 1964	151	2.40	0.03	0.000
P-7951	Reynolds Ct. (Private)	6	Asbestos Cement	125	COV 1964	153	07.04	0.01	0.000
P-7952	Nooseneck Hill Rd.	12	Asbestos Cement	125	COV 1965	968	21.04	- 0.00 0.70	0.000
P-7953	Hill St.	8	Asbestos Cement	115	COV 1947	433	122.89	0.01	0.200
P-7954	Nancy Ct.	6	Asbestos Cement	125	COV 1963	263	1010 10	1 20	0.000
P-7955	Blackrock Rd.	24	Ductile Iron	140	001 1005	332	75 89	0.49	0.090
P-7956	Partridge Dr.	8	Ductile Iron	135	CON 1992	000	1 22	0.40	0.000
P-7958	Partridge Dr.		Ductile Iron	130	COV 1995	611	5 72	0.06	0.050
P-7959	Fairview Ave.	6	Cast fron		COV 1007	223	4 50	0.05	0.010
P-7960	Fairview Ave.			30	COV 1887	696	3.27	0.04	0.020
P-7961	Fairview Ave.		Cast Iron	00	COV 1887	836	-2.05	0.01	0.000
P-7962	Washington St.	12	Achecton Comment	115	COV 1944	1756	1016.35	1.62	1.420
P-7963	Fariview Ave.	16	Aspestos Cement	115	COV 1944	1793	-414.03	1.17	1.110
P-7964	Washington St.	12	Centimo	60	COV 1887	212	601.10	1.71	0.880
P-7965	Washington St.	- 12	Cartino	50	COV 1940	591	17.96	0.20	0.150
P-7966	Hazard St.		Cartima		COV 1940	731	3.67	0.04	0.010
P-7967	Knight St.	<u> </u>	Ductile Ime	135	COV 1998	412	1.22	0.01	0.000
P-7968	Edward St.	24	Ductile Imm	140	COV 2005	1109	-1814.6	1 1.29	0.250
P-7970	BIACKFOCK KO.	- 24	Galvanized imn	30	COV 1930	259	-1.22	0.13	0.250
P-7971	Edward St.		Achaetae Campat	115	COV 1947	103	1.22	0.01	0.000
P-7972	Edward St.	<u> </u>	I ROUGOUS COMOR						

- [	Label	Description	Diameter (in)	Material	Hazen- Williams C	Notes	Length (ft)	Discharge (gpm)	Velocity (ft/s)	Calculated Friction Headloss (ft)
-	P-7974	Fairview Ave.	6	Cast iron	60	COV 1887	346	-6.95	0.08	0.010
F	P-7975	Fairview Ave.	8	Ductile Iron	135	COV 1999	1061	1.22	0.01	0.000
Г	P-7976	Hazard St.	6	Cast iron	50	COV 1940	250	9.39	0.11	0.020
ľ	P-7977	Fairview Ave.	16	Asbestos Cement	115	COV 1944	1318	794.59	1.27	0.670
	P-7978	Fairview Ave.	16	Asbestos Cement	115	COV 1944	62	575.73	0.92	0.020
	P-7979	Morin Ave.	1	Copper	70	COV 1965	532	1.22	0.50	3.100
	P-7980	Gadoury St.	6	Asbestos Cement	115	COV 1949	536	217.63	2.47	2.960
[	P-7981	Doolittle St.	6	Asbestos Cement	120	COV 1958	612	216.41	2.46	3.090
. [	P-7982	Yates Ave.	6	Asbestos Cement	115	COV 1949	307	119,87	1.36	0.560
	P-7983	Yates Ave.	6	Asbestos Cement	115	COV 1949	630	2.45	0.03	0.000
	P-7984	Eisenhower St.	6	Asbestos Cement	130	COV 1971	415	1.22	0.01	0.000
	P-7985	Macarthur Blvd.	8	Asbestos Cement	115	COV 1948	1114	4.90	0.03	0.000
[	P-7986	Macarthur Blvd.	8	Asbestos Cement	115	COV 1948	593	1.22	0.01	0.000
	P-7987	Cardinal Ave.	6	Asbestos Cement	115	COV 1948	287	2.45	0.03	0.000
1	P-7988	Patton St.	6	Asbestos Cement	115	COV 1949	863	1.22	0.01	0.000
	P-7989	Doolittle St.	6	Asbestos Cement	120	COV 1958	691		1.08	0.760
[	P-7990	Ceçile Ave.	6	Asbestos Cement	120	COV 1952	300	2.45	0.03	0.000
I	P-7991	Edward St.	6	Asbestos Cement	120	COV 1952	240	1,22	0.01	0.000
	P-7992	Cecile Ave.	6	Asbestos Cement	120	COV 1952	310	40.79	0.46	0.070
ł	P-7993	Macarthur Blvd.	8	Asbestos Cement	115	COV 1948	697	-111.30	0.71	0.270
1	P-7994	Cecile Ave.	6	Asbestos Cement	120	COV 1952	890	35.92	0.41	0.160
t	P-7995	Raymond St.	6	Asbestos Cement	115	COV 1949	326	2.45	0.03	0.000
ľ	P-7996	Anderson Ave.	6	Asbestos Cement	125	COV 1961	724	1.22	0.01	0.000
	P-7997	Macarthur Blvd.	8	Asbestos Cement	115	COV 1948	356	114.94	0.73	0.150
ł	P-7998	Macarthur Blvd.	8	Asbestos Cement	115	COV 1948	194	112.49	0.72	0.080
t	P-7999	Justa Ave.	6	Asbestos Cement	115	COV 1947	316	-45.96	0.52	0.100
	P-8000	Justa Ave.	6	Asbestos Cement	115	COV 1947	303	3.67	0.04	0.000
	P-8001	Doolittle St.	6	Asbestos Cement	120	COV 1958	577	-50.85	0.58	0.200
	P-8002	Peacock Dr.	8	Ductile Iron	135	COV 1995	823	73.23	0.47	0.110
1	P-8003	Raymond St.	6	Asbestos Cement	115	COV 1949	439	-32.25	0.37	0.070
	P-8004	Macarthur Blvd.	8	Asbestos Cement	115	COV 1948	196	157.23	1.00	0.150
	P-8005	Gerald Ave.	6	Asbestos Cement	115	COV 1949	645	-29.80	0.34	0.090
	P-8006	Raymond St.	6	Asbestos Cement	115	COV 1949	336	-31.03	0.35	0.050
	P-8007	Dion Ave.	6	Asbestos Cement	115	COV 1949	353	1.22	0.01	0.000
	P-8008	Macarthur Blvd.	8	Asbestos Cement	115	COV 1948	1531	185.81	1.19	1.550
	P-8009	Washington St.	12	Cast iron	60	COV 1887	1691	581.92	1.65	6.580
	P-8010	Washington St.	12	Cast iron	60	COV 1887	158	580.69	1.65	0.610
	P-8011	Washington St.	12	Cast iron	60	COV 1887	533	765.28	2.17	3.450
-	P-8012	Pulaski St.	12	Ductile Iron	140	COV 2003	473	728.08	2.07	0.580
	P-8013	North St.	6	Cast iron	80	COV 1928	558	250.09	2.84	7.810
	P-8014	Pulaski St.	12	Ouctile Iron	140	COV 2003	232	476.77	1.35	0.130
	P-8015	South St.	6	Cast iron	30	COV 1890	763	2.45	0.03	0.010
	P-8016	South St.	4	Cast iron	30	COV 1890	343	1.22	0.03	0.010
	P-8017	Pulaski St.	12	Ductile Iron	140	COV 2003	695	473.10	1.34	0.380
	P-8018	Whitford St.	8	Ductile Iron	140	COV 2003	458	1.22	0.01	0.000
	P-8019	Pulaski St.	12	Ductile Iron	140	COV 2003	820	470.65	1.34	0.450
	P-8020	Washington St	12	Cast iron	60	COV 1887	326	35.97	0.10	0.010
	P-8022	Washington St	12	Cast iron	60	COV 1887	983	31.07	0.09	0.020
	P-8023	Read Ave	6	Cast iron	70	COV 1887	468	-26.86	0.30	0.130
	P-8024	Ann Ct.	2	Copper	70	COV 1940	376	1.22	0.13	0.070
	P-8025	Read Ave	6	Cast iron	70	COV 1887	318	-29.31	0.33	0.110
	P_8026	Rathhun St	- <u> </u>	Aspestos Cement	120	COV 1956	338	18.05	0.20	0.020
	P_4027	Read Ave	ă	Cast iron	70	COV 1887	1149	-48.58	0.55	0.990
	P-9021	Fract St	R	Ductile Iron	140	COV 2001	347	1.22	0.01	0.000
	P_8020	Read Ave	6	Cast iron	70	COV 1887	307	-51.03	0.58	0.290
	P_8030	Bascett St	2	Galvanized iron	30	COV 1910	418	1.22	0.13	0.400
	P_8031	Read Ave	6	Cast iron	70	COV 1887	224	-53.48	0.61	0.230
	P_8032	Read Ave	6	Cast iron	70	COV 1887	87	-57.15	0.65	0.100
	P_8/132	Willow St	6	Cast iron	30	COV 1895	407	4.01	0.05	0.020
	P_8034	Rates Ave	6	Cast iron	30	COV 1887	291	2.45	0.03	0.000
	P_2035	Rates Ave	à T	Cast iron	30	COV 1887	514	1.22	0.01	0.000
	D_9035	Read Ave	- ă	Cast iron	70	COV 1887	294	-62.38	0.71	0.400
	P-8030	Bonnatt St	1 2	Galvanized iron	30	COV 1900	395	1.22	0.13	0.380
	D 0000		A A	Cast iron	70	COV 1887	581	-64.83	0.74	0.850
	P-0030	Read Ave		Cast iron	70	COV 1887	1244	-47.43	0.54	1,030
	P-90.39		A A	Cast iron	60	COV 1889	377	2.34	0.01	0.000
	D 9044	Dhillin Ct	A A	Castimn	30	COV 1889	1273	19.85	0.23	1.000
	D.0041	Philip SL Dhalin Ci	8	Ashestos Cement	120	COV 1954	392	18.62	0.21	0.020
	D 0042	Promitip OL	R	Cast imn	70	COV 1887	2714	-50.99	0.58	2.560
	P 0043	Couch Are	18	Ashestos Coment	130	COV 1944	788	-854.36	1.36	0.370
	D 0044	Bood Aum	16	Achestos Coment	125	COV 1944	499	-855.58	1.37	0,250
	P-0040	Pood Are	16	Ashestos Coment	125	COV 1944	865	-856.80	1.37	0.440
	P-004/	Nedu Ave.	- 10 a	Ashestos Cement	125	COV 1956	246	196.60	1.25	0.240
	P-6048	Tourius Ave.	9 8	Ashestoc Cement	130	COV 1963	352	1.22	0.01	0.000
	P-6049	Vourse Ave		Ashestoc Camon	125	COV 1956	848	194.16	1.24	0.800
	P-6050	Dark Ave.	0 6	Asheetne Coment	130	COV 1962	355	3.67	0.04	0.000
	P-6051	Park Ave.		Aspestos Cement	130	COV 1963	229	1.22	0.01	0.000
	<b>P-0052</b>	Dons St.	0	1 Jundation Compile						

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F	·· · · ·	<u> </u>								Calculated
1			Diameter		Hazen-	N-4-4	1	Discharge	Velocity	Friction
	Label	Description	(in)	Material	Williams C	NOLES	Longth (IL)	(gpm) 1.22	0.01	0.000
	P-8053	Park Ave.	6	Aspestos Cement	130	COV 1962	361	2.45	0.03	0.000
ŀ	P-8054	Park Ave.	6	ASUESIOS COMON	130	COV 1981	455	1 72	0.00	0.000
-	P-6055	Ray SL	16	Aebeetos Coment	125	COV 1944	128	-1054.63	1.68	0.090
ŀ	P-0000	Esiodew Ave	16	Asbestos Cement	115	COV 1944	496	-558.60	0.89	0.130
ŀ	P-8058	Marshall Cir	6	Asbestos Cement	115	COV 1948	452	1.22	0.01	0.000
ł	P-8059	Fairview Ave	16	Asbestos Cement	115	COV 1944	516	-561.04	0.90	0.140
ŀ	P-8060	Hone View St.	2	Copper	70	COV 1948	308	1.22	0.22	0.250
t	P-8061	Fairview Ave	16	Asbestos Cement	115	COV 1944	329	-563.49	0.90	0.090
	P-8062	Rosella St.	6	Ductile Iron	135	COV 1992	679	3.67	0.04	0.000
1	P-8063	Marshall Cir.	6	Ductile Iron	135	COV 1992	368	1.22	0.01	0.000
ŀ	P-8064	Marshall Cir.	6	Ductile Iron	135	COV 1992	581	1.22	0.01	0.000
t	P-8065	Fairview Ave.	16	Asbestos Cement	115	COV 1944	807	-568.39	0,91	0.220
1	P-8066	Fairview Ave.	16	Asbestos Cement	115	COV 1944	430	-538.98	0.86	0.110
ł	P-8067	Woodmist Cir.	8	Ductile Iron	140	COV 2001	1496	-30.63	0.20	0.040
	P-8068	Woodmist Cir.	8	Ductile Iron	140	COV 2001	649	31.85	0.20	0.020
l	P-8069	Woodmist Cir.	8	Ductile fron	140	COV 2001	1813	33.08	0,21	0.050
~	P-8070	Fairview Ave.	16	Asbestos Cement	115	COV 1944	1280	-573.28	0.91	0.360
1	P-8071	Fairview Ave.	16	Asbestos Cement	115	COV 1944	1164	-533.99	0.85	0.290
	P-8072	Fairview Ave.	16	Asbestos Cement	115	COV 1944	253	-661.49	1.06	0.090
	P-8073	Hill St.	8	Asbestos Cement	115	COV 1947	866	195.00	1.24	0.960
1	P-8074	Brown St.	8	Cast iron	70	COV 1928	1414	159.55	1.02	2.720
—	P-8075	Hillside Ave.	12	Cast iron	60	COV 1887	209	0.12	0.02	0.000
	P-8076	Yeaton St.	12	Cast iron	60	COV 1887	082	1.22	0.00	0.000
	P-8077	Hillside Ave.	6	Asbestos Cement	120	COV 1959	304	3.0/	0.04	0.000
	P-8078	Fones St.	6	Asbestos Cement	115	COV 1949	029	1 22	0.01	0.000
	P-8079	Hillside Ave.	6	Aspestos Cement	120	COV 1939	657	152.21	0.47	0.210
~	P-6080	Hillside Ave.	12	Cast Iron	60	COV 1887	258	34.22	0.39	0.330
	P-8081	Hill St.	6	Cast iron	40	COV 1920	510	1 22	0.22	0.420
	P-8082	Notre Dame St.	<u> </u>	Copper	40	COV 1937	255	31 77	0.36	0.280
	P-8083	Hin St.	0	Cast IIII	140	COV 1920	493	169.83	1.08	0.290
	P-8084	MUITION St.		Ductile Iron	140	COV 2001	511	168.61	1.08	0.300
-	P-8085	Mumford St.		Ductile Imo	140	COV 2001	803	-207.90	1.33	0.700
	P-6086	Mumoru SL	0	Ductile Iron	140	COV 2001	301	-157.36	1.00	0.160
	P-8088	Mumoro St.		Ductile imp	140	COV 2001	374	-158.59	1.01	0.200
	P-6069		24	Ductile Iron	140	COV 2005	1103	-3326.54	2.36	0.770
	P-0090		24	Ductile Iron	140	COV 2005	167	-3417.30	2.42	0.120
	P-0091		24	Ductile Iron	140	COV 2005	604	-3419.75	2.43	0.440
	P-0092	Howard Ave	16	Asbestos Cement	120	COV 1956	1948	1240.38	1.98	2.100
	P_8005	Hill St	8	Asbestos Cement	115	COV 1947	136	-36.54	0.23	0.010
	P-8096	Hill St	8	Asbestos Cement	115	COV 1947	714	-37.77	0.24	0.040
	P-8097	Hill St.	8	Asbestos Cement	115	COV 1947	400	-38.99	0.25	0.020
	P-8098	Hill St.	6	Cast iron	30	COV 1887	325	-45.11	0.51	1.170
	P-8099	Hill St.	16	Asbestos Cement	120	COV 1956	1292	-1396.43	2.23	1.740
	P-8100	Hill St.	16	Asbestos Cement	120	COV 1956	97	-35.32	0.06	0.000
	P-8101	Colvin St.	16	Asbestos Cement	120	COV 1956	1265	-1362.33	2.17	1.620
	P-8102	Hill St.	6	Cast iron		COV 1887	713	1.22	0.01	0.000
	P-8103	Hill St.	6	Cast iron	30	COV 1887	496	3.67	0.04	0.020
	P-8104	Pierce St.	4	Cast iron	30	COV 1887	451	1.22	0.03	0.010
	P-8105	Hill St.	4	Cast Iron	30	COV 1887	209	1.44	0.03	0.010
	P-8106	Paulette Dr.	6	Asbestos Cement	125	COV 1960		1.44	1.02	1 340
	P-8107	Rebecca St.	6	Asbestos Cement	125	<u>COV 1961</u>	1400	7 24	0.02	0.000
	P-8108	Cedar St.	6	Aspestos Cement	120	COV 1939	340	6 12	0.07	0.000
	P-8109	Cedar St.	6	Aspestos Cement	120	COV 1958	1015	4 90	0.06	0.000
	P-8110	Eleanor Dr.		Aspestos Coment	120	COV 1960	308	3.67	0.04	0.000
	P-8111	Elmonte Dr.	6	Achestos Cement	125	COV 1960	456	1.22	0.01	0.000
—	P-8112	Eimonte Dr.	0	Achestos Coment	125	COV 1960	469	1.22	0.01	0.000
	P-8113	Canyon Ur.		Ashectos Coment	120	COV 1956	1589	32.93	0.21	0.060
	P-8114	Howard Ave.	<u>0</u>	Cast imp	30	COV 1887	2077	31.70	0.36	3.900
	P-8115	Howard AV8.		Ductile Imp	135	COV 1992	747	2.45	0.02	0.000
	P-8116	AIOXIS St.		Ductile Imn	135	COV 1992	414	1.22	0.01	0.000
	P-0117	MINIS DL	16	Asbestos Cament	120	COV 1956	159	1236.71	1.97	0.170
	P-0110	Hemlank St. (Drivata)		Asbestos Cement	120	COV 1956	226	1.22	0.01	0.000
	P-0119	Howard Ava	16	Asbestos Cement	120	COV 1956	331	1234.26	1.97	0.350
	P_8121	Cerlar St.	6	Ductile Iron	135	COV 1994	786	-80.97	0.92	0.520
	P.9122	Howard Ave.	16	Asbestos Cement	120	COV 1956	1283	1314.01	2.10	1.540
	P-8124	Harris St.	6	Cast iron	30	COV 1900	318	16.14	0.18	0.170
	P-8125	Elm St.	6	Cast iron	75	COV 1900	545		0.45	0.290
	P-8126	Highland Ave.	6	Ductile Iron	135	COV 1994	993	3.67		0.000
	P-8127	Highland Ave.	6	Ductile Iron	135	COV 1994	285	1.22	0.01	0.000
	P-8128	Potter St.	6	Ductile Iron	135	COV 1994	415	1.22 E4 0F	10.0 -	1 170
	P-8129	Harris St.	6	Cast iron	30	COV 1900	747	21 02	0.02	1.290
	P-8130	Mill St.	6	Cast iron	30	COV 1900	<u> </u>		0.53	2.330
	P-8131	Broad St.	6	Cast iron	30	COV 1900	711	.272 58	0.63	0.310
	P-8132	Main St.	12	Cast iron	/5	0001000				

r			1	1						Calculated
I	ł		Diameter		Hazen-			Discharge	Velocity	Friction
	Label	Description	(in)	Material	Williams C	Notes	Length (ft)	(gpm)	(ft/s)	Headloss (ft)
ł	P-8133	Harris St.	6	Cast iron	30	COV 1900	723	22.69	0.26	0.730
h	P-8134	Тепасе Ауе.	4	Cast iron	30	COV 1900	291	21.47	0.55	1.910
F	P-8135	Lemis St.	6	Asbestos Cement	125	COV 1960	1416	1.22	0.01	0.000
ŀ	P-8136	New London Tpk.	12	Asbestos Cement	125	COV 1960	389	192.16	0.55	0.050
ŀ	P-8137	New London Tpk.	12	Asbestos Cement	125	COV 1960	341	174.04	0.49	0.040
ſ	P-8138	Valrene St.	6	Asbestos Cement	125	COV 1967	614	-4.65	0.05	0.000
ľ	P-8139	Valrene St.	6	Asbestos Cement	125	COV 1967	73	1.22	0.01	0.000
- [	P-8140	Rosebud St.	6	Asbestos Cement	125	COV 1961	310	-7.10	0.08	0.000
1	P-8141	Angus St.	6	Asbestos Cement	125	COV 1960	757	-16.89	0.19	0.030
Į.	P-8142	Angus St.	6	Asbestos Cement	125	COV 1960	1208	8.5/	0.10	0.010
- 1	P-8143	Old North Rd.		Aspestos Cement	130	COV 19/6	1/70	6.12	0.00	0.000
	P-8144	Old North Rd.	12	Aspestos Cement	130	COV 1970	14/2	177 47	0.02	0.000
-	P-8145	New London 1 pk.	12	Aspestos Cement	120	COV 1960	773	1 22	0.00	0.040
-	P-8145	Rejane St.	6	Asbestos Cement	120	COV 1951	223	1.22	0.01	0.000
ŀ	P-014/	Lingu St		Ashestos Cement	125	COV 1965	313	-2.45	0.03	0.000
	P-0140	Madio St	8	Ashestos Cement	125	COV 1950	405	-4.90	0.06	0.000
	P-8150	Martin St	6	Ashestos Camant	125	COV 1960	189	1.22	0.01	0.000
	P.8151	New London Tok	12	Asbestos Cement	125	COV 1960	154	175.02	0.50	0.020
	P-8152	Wendy Dr.	8	Asbestos Cement	130	COV 1973	244	52.73	0.34	0.020
	P-8153	Lonofellow Dr.	8	Asbestos Cement	130	COV 1973	325	21.43	0.14	0.000
	P-8154	Lions Dr.	8	Asbestos Cement	130	COV 1973	554	-19.21	0.12	0.010
	P-8155	Longfellow Dr.	8	Asbestos Cement	130	COV 1973	500	39.42	0.25	0.020
	P-8156	Longfellow Dr.	8	Asbestos Cement	130	COV 1973	449	-25.94	0.17	0.010
	P-8157	Wendy Dr.	8	Asbestos Cement	130	COV 1973	224	-20.62	0.13	0.000
	P-8158	Wendy Dr.	8	Asbestos Cement	130	COV 1973	546	-30.08	0.19	0.020
	P-8159	Longfellow Dr.	8	Asbestos Cement	130	COV 1973	992	-6.54	0.04	0.000
	P-8160	Whittier Dr.	8	Asbestos Cement	130	COV 1973	579	-8.23	0.05	0,000
	P-8161	Whittier Dr.	8	Asbestos Cement	130	COV 1973	228	0.47	0.00	0.000
	P-8162	New London Tpk.	12	Asbestos Cement	125	COV 1960	200	-113.72	0.32	0.020
	P-8163	Tiffany Rd.	8	Asbestos Cement	130	COV 1976	322	2.65	0.03	0.000
	P-8164	Tiffany Rd.	8	Aspestos Cement	130	COV 1970	1342	1 22	0.01	0.000
	P-8165	I rationd Park Dr.		Aspestos Cement	100	COV 1960	1007	112.96	0.32	0.050
	H-8166		12	PVC	120	COV 1987	213	1.22	0.01	0.000
	P-8167	Imany Ko.	12	Achestos Comont	125	COV 1960	209	-121.07	0.34	0.010
	P 9160	New London Tek	A 14	Asbestos Camant	125	COV 1969	535	106.84	0.68	0.170
	P-9170	New London Tok	8	Asbestos Cement	125	COV 1969	316	1.22	0.01	0.000
	P_8171	Compton Rd	16	Ductile Iron	135	COV 1991	482	286.96	0.46	0.030
	P.8170	Compton Rd	16	Ductile Iron	135	COV 1991	255	285.73	0.46	0.010
	P-8173	Compton Rd	16	Ductile Iron	135	COV 1991	152	284.51	0.45	0.010
	P_9174	Compton Rd	12	Asbestos Cement	130	COV 1972	454	1.22	0.00	0.000
	P-8175	New London Tok.	16	Ductile iron	135	COV 1995	548	278.39	0.44	0.030
	P-8176	Amold Rd.	8	Asbestos Cement	125	COV 1969	431	103.17	0.66	0.130
	P-8177	Gay St.	8	PVC	130	COV 1986	432	101.95	0.65	0.110
	P-8178	Gay St.	8	PVC	130	COV 1986	196	1.22	0.01	0.000
	P-8179	Grafton St.	8	PVC	130	COV 1986	488	99.50	0.64	0.120
	P-8180	Grand View St.	8	Ductile Iron	140	COV 2003	286	97.05	0.62	0.060
	P-8181	Grand View St.	8	Ductile Iron	135	COV 1991	452	1.22	0.01	0.000
	P-8182	Martin St.	6	Asbestos Cement	125	COV 1960	388	6.12	0.07	0.000
	P-8183	Arnold Rd.	16	Ductile Iron	135	COV 1991	593	4.90	0.01	0.000
	P-8184	Amold Rd.	16	Ductile Iron	135		220	3.0/ 2.4E	0.01	0.000
	P-8185	Arnold Rd.	16	Ductile Iron	135	00/ 1991	242	1 22	0.00	0,000
	P-8186	Arnold Rd.	16	Ductile iron	135	COV 1991	1011	0.00	0.00	0.000
	P-8187	Amold Rd.	10		135	COV 1991	3803	-1.22	0.00	0.000
	P-8188	Amoki Ro.	10	Ductile Imn	135	COV 1991	329	-2.45	0.00	0.000
	P-6189	JURISON DAV.	10	Ductile imn	135	COV 1991	219	-3.67	0.01	0.000
—	P-6190	Junison Bkrd	16	Ductlie Imn	135	COV 1991	1627	4.90	0.01	0.000
	D 9102	Tiffaov Rd	A 10	PVC	130	COV 1987	1804	1.22	0.01	0.000
	P_9102	Johnson Blvd	16	Ductile Iron	135	COV 1991	1496	1191.81	1.90	1.210
	P_8104	Johnson Blvd.	16	Ductile Iron	135	COV 1991	251	1190.59	1.90	0.200
	P_8105	Rosemary St.	12	Ductile Iron	130	COV 1988	583	1189.37	3.37	2.040
	P-8196	King St.	12	Ductile Iron	130	COV 1989	441	1186.92	3.37	1.540
	P-8197	Hopkins Hill Rd.	12	Ductile Iron	130	COV 1989	105	90.90	0.26	0.000
	P-8198	Helen Ave.	12	Ductile Iron	130	COV 1989	212	88.45	0.25	0.010
	P-8199	Hopkins Hill Rd.	12	Ductile Iron	130	COV 1989	314	1094.79	3.11	0.570
_	P-8200	Clark Mill St.	8	Ductile fron	135	COV 1997	1159	14/.61	274	1 220
-	P-8201	Hopkins Hill Rd.	12	Ductile Iron	130		- 519	270.24	1 78	0.380
	P-8202	Mishnock Rd.	8	Ductile Iron	130	COV 1989	219	2/9.3	0.25	0.060
	P-8203	Windsor Park Dr.	6	Asbestos Cement	120	COV 1953	314	20.04	0.24	0.020
	P-8204	Windsor Park Dr.	6	Aspestos Cement	120	- COV 1953	711	-9.23	0.10	0.010
	P-8205	Kennington Ave.		Aspestos Cement	120	COV 1953	296	-42.89	0.49	0.070
	P-8206	Windsor Park Dr.		Asbestos Cement	120	COV 1953	363	32.43	0.37	0.050
	P-8207	Windsor Park Ut.		Asbestos Cement	120	COV 1953	639	2.22	0.03	0.000
	P-8208	Mindeor Park Dr	6	Asbestos Cement	120	_COV 1953	368	-28.95	0.33	0.040
		WIRDOU FAIR DI.								

Label	Description	Diameter (in)	Material	Hazen- Williams C	Notes	Length (ft)	Discharge (gpm)	Velocity (ft/s)	Friction Headloss (
P-8210	Windsor Park Dr.	6	Asbestos Cement	120	COV 1953	344	29.94	0.34	0.040
P-8211	Kathy Ave.	6	Asbestos Cement	120	COV 1953	468	3.51	0.04	0.000
P-8212	Roundway Dr.	6	Asbestos Cement	120	COV 1953	380	-28.99	0.33	0.050
P-8213	Windsor Park Dr.	6	Asbestos Cement	120	COV 1953	730	25.20	0.29	0.070
P-8214	Roundway Dr.	6	Asbestos Cement	120	COV 1953	481	-31.28	0.35	0.070
P-8215	Nooseneck Hill Rd.	12	Asbestos Cement	125	COV 1965	3197	-24.59	0.07	0.010
2-8216	King St.	6	Ductile Iron	135	COV 1994	1300	1.22	0.01	0.000
2-8217	Fairview Ave.	6	Cast iron	70	COV 1887	354	19.77	0.22	0.060
2-8219	Broad St.	6	Cast iron	30	COV 1900	318	-0.91	0.01	0.000
P-8220	White Rock Dr.	8	Asbestos Cement	125	COV 1965	134	0.00	0.00	0.000
P-8222	Boston St	6	Cast iron	40	COV 1928	228	-2.47	0.03	0.000
P-8223	Benoit St	6	Cast iron	45	COV 1938	411	4.88	0.06	0.010
P_8224	Hancock St	8	Asbestos Cement	130	COV 1977	139	8.50	0.05	0.000
D_8225	Adams Dr	A	Ashestos Cement	130	COV 1978	89	18.43	0.12	0.000
D-9226	Noosepeck Hill Rd	12	Ashestos Cement	125	COV 1965	3529	51.02	0.14	0.040
D 0007	Houwood Dr	8	Ductile Imn	135	COV 1999	555	1.22	0.01	0.000
D 9000	Amold Bd	16	Cast imp	75	COV 1890	72	777.75	1,24	0.080
F-0220		16	Ductile Imp	135	COV 1991	461	1197.93	1.91	0.370
P-8229	Johnson Bivd. PS	10	Ductile lease	125	COV 1991	157	1197.93	1 91	0 130
P-8230	Johnson Bivd, PS	10	Ducule tion	135	COV 1991	199	1107.04	3.40	0.660
P-8231	Johnson BMd. PS		Ductile Iron	135	COV 1991	200	1107.04	3.40	0.690
P-8232	Johnson Blvd. PS	12	Ductile iron	133	001 1991	160	1107.09	1 01	0.030
P-8233	Johnson Blvd. PS	16	Ductile Iron	135	COV 1991	100	1 1 1 1 1 2 2	1.81	0.130
P-8234	Johnson Blvd. PS	16	Ductile Iron	135	COV 1991	100	0.00	0.00	0.000
P-8235	Johnson Blvd. PS		Ductile Iron	135	COV 1991	202	0.00	0.00	0.000
P-8236	Johnson Blvd. PS	12	Ductile Iron	135	COV 1991	209	0.00	0.00	0.000
P-8237	Johnson Blvd. PS	16	Ductile Iron	135	COV 1991	169	0.00	0.00	0.000
P-8238	Johnson Blvd. PS	16	Ductile Iron	135	COV 1991	172	0.00	0.00	0.000
P-8239	Johnson Blvd. PS	10	Ductile fron	135	COV 1991	199	0.00	0.00	0.000
P-8240	Johnson Blvd. PS	10	Ductile Iron	135	COV 1991	209	0.00	0.00	0.000
P-8241	Johnson Blvd, PS	16	Ductile Iron	135	COV 1991	169	0.00	0.00	0.000
P-8242	Knotty Oak Rd	8	Asbestos Cement	115	COV 1947	302	2.45	0.02	0.000
0242	Washington St	16	Cast iron	75	COV 1890	129	0.00	0.00	0.000
D 0245	Washington St	16	Cast ron	75	COV 1886	229	0.00	0.00	0.000
D 0245	Keetty Oak Bd		Ashestos Cament	115	COV 1947	771	1.23	0.01	0.000
P-0240	Minution St	16	Cest imn	75	COV 1886	1426	-1.22	0.00	0.000
P-6240	Washington St.	10	Ductile imp	135	COV 1995	263	-1369.13	5.59	2.700
P-6247	Knotty Oak Rd. PS		Ductile Imn	135	COV 1995	235	-1369.13	5,59	2.410
P-8249	Knotty Uak Rd. PS		Ductile Iron	135	COV 1995	246	-1369.13	5.59	2.530
P-8250	Knotty Uak Rd. PS	- 10	Ducule iron	135	COV 1995	255	0.00	0.00	0.000
P-8251	Knotty Oak Rd. PS	10		425	COV 1995	405	0.00	0.00	0.000
P-8252	Knotty Oak Rd. PS	10	Ducule Iron	135	COV 1995	711	1855.90	1 90	0.550
P-8253	Knotty Oak Rd.	20	Asbestos Cement	120	001 1900	074	0.00	0.00	0.000
P-8254	Knotty Oak Rd. PS	12	Ductile Iron	135	001/1995	430	1220 12	2.00	2.030
P-8255	Knotty Oak Rd. PS		Ductile Iron	135	COV 1995	4/9	1309.13	3.00	1.560
P-8256	Knotty Oak Rd. PS	12	Ductile Iron	135	COV 1995	370	1309.13	3.00	0.000
P-8257	Mishnock Weil	12	Asbestos Cement	130	COV 1989	14	0.00	0.00	0.000
P-8258	Mishnock Well 2 (Abandoned)	12	Ductile Iron	130	COV 1989	5	0.00	0.00	0.000
P-8259	Mishnock Well 2 (Abandoned)	8	Ductile Iron	130	COV 1989	6	0.00	0.00	0.000
P-8260	Hawthome Rd. Easement	8	Ductile Iron	140	COV 2005	528	10.30	0.07	0.00
D 9262	Mishoock Rd	8	Ductile Iron	130	COV 1989	136	279.31	1,78	0.23
P 9262	Mishack Rd	12	Ductile iron	130	COV 1989	833	280.53	0.80	0.20
P 9284	Holon Ave	12	Ashestos Cement	120	COV 1954	90	88.45	0.25	0.00
P-8204	Mishanak Bd	12	Ductile Imn	130	COV 1989	103	0.00	0.00	0.00
r-8205	MISIBIOGK ING.	40	Ductile Icon	130	COV 1989	872	89.68	0.25	0.03
r-8266	Helen Ave.	- 14	Cartimo	75	COV 1890	293	775.30	1.24	0.32
H-8267		10	Achaetee Coment	120	COV 1954	148	0.00	0.00	0.00
P-8268	Helen Ave.	- 14	Custile inco	1.40	COV 2003	4121	2.44	0.02	0.00
P-6269	Colvintown Rd.		Ashartas Comtat	130	COV 1971	1194	-568.32	3.63	7,66
P-8270	Colvintown Rd.		Aspesios Cement	420	COV 1090	532	1 22	0.01	0.00
P-8271	Donna's Way	8		130	COV 1969	124	386 70	1.10	0.06
P-8272	Flat River Rd.	12	Aspesios Cement	125	COV 1900	1272	383.62	2 45	4 25
P-8273	Colvintown Rd.	8	Aspestos Cement	130	COV 1071	745	358 50	2 29	2.04
P-8274	Old Main St.	8	Aspestos Cement	- 130	COV 19/1	247	356 14	2 27	0.86
P-8275	Old Main St.	8	Asbestos Cement	130	001/ 19/1	202	4 22	0.01	0.00
P-8276	Dumont Farm Rd.	88	Ductile Iron	140		470	-1242.00	214	0.20
P-8277	Howard Ave.	16	Asbestos Cement	120	COV 1957	1/8	1343.20	1 0.02	0.22
P-8278	Bates Ave.	8	Cast iron	80	<u>COV 1940</u>	- 8/5	3.0/	0.02	- 0.00
P-8279	Bates Ave.	2	Cast iron	50	COV 1940	248	1.22	- 0.13	
P-8280	Bates Ave.	6	Cast iron	50	COV 1940	811	2.45	0.03	0.0
P-8281	Edward St	2	Galvanized iron	30	COV 1998	142	1.22	0.13	0.14
D-8292	Hazani St	6	Cast iron	50	COV 1940	231	13.07	0.15	0.0
D_0202	Hazard St	Ä	Cast Iron	50	COV 1940		10.62	0.12	0.10
0 0203	Cham St		Asbestos Cement	125	COV 1963	150	1.22	0.01	0.0
P-6284	Shahn A		PVC	130	COV 1985	998	24.09	0.15	0.0
P-6265	ONANTA AVO.			140	COV 2002	520	1.22	0.00	0.0
P-8286		12	Caet ima	80	COV 1887	296	2.87	0.01	0.0
P-8287	Washington St.		Castimo		COV 1887	1758	0.40	0.00	0.0
P-8288	Washington St.	12			COV 1887	635	1.25	0.01	0.0
P-8289	Capwell St.	8			COV 1997	134	5.19	0.01	0.00
1 P_8290	Washington St	12	1 Castinon		0011001				

	·····		1		· · · · · · ·			· · · ·	·	Calculated
1			Diameter		Hazen-			Discharge	Velocity	Friction
1	l abel	Description	fint	Matarial	Williame C	Notes	Length (ff)	(apm)	(ft/s)	Headloss (fi)
-	LaDel	Misshington Ct	12	Castima		COV 1897	714	3 00	0.01	0.000
	P-8291	vvasnington St.	12	Cast iron	20	COV 1007	760	0.02	0.01	0.000
ŀ-	P-8292	Capwell St.	1	Cast iron		COV 100/	681	603 38	1 11	0.100
F	P-6293		10	Ductile from	140	COV 2000	1042	688.88	1 10	0.280
L 1	P-6294	Tiogue Ave.	10		140	COV 2000	107	3 27	0.02	0.000
Ļ	P-8295	Anzona St.		Ductile Iron	140	COV 2000	2620	622.00	1.02	0.000
	P-8296	Tiogue Ave.	16	Ductile Iron	140	COV 2000	100	_3 69	0.02	0.000
	P-8297	Alaska St.	8	Ductile Iron	140	COV 2000	079	-3.00	0.02	0.000
Ĺ	P-8298	Tiogue Ave.	8	Ductile Iron	135	CON 1992	3/0	772 05	1.01	0.000
	P-8299	Amoid Rd.	16	Cast Iron	<u></u>	COV 1890		112.00	0.12	0.070
L .	P-8300	Hazel St.	2	Copper	/0	00V 1941	300	1.44	0.13	0.000
L	P-8301	Ridge Ave.	8	Ductile Iron	140	COV 2000	212	7.24	0.01	0.000
L	P-8302	Acom St.	6	Asbestos Cement	125	COV 1966	1019	1.34	0.00	0.010
- L	P-8303	Beechwood St.	6	Asbestos Cement	120	COV 1954	442	-3.0/	0.04	0.000
	P-8304	Beechwood St.	6	Asbestos Cement	120	COV 1954	6//	1.22	0.01	0.000
	P-8305	Powhatan Ave.	6	Asbestos Cement	125	COV 1966	510	-6.12	0.07	0.000
L	P-8306	Arnold Rd.	16	Cast iron	75	COV 1890	307	-28.99	0.05	0.000
	P-8307	Arnold Rd.	16	Cast iron	75	COV 1890	267	-30.01	0.05	0.000
- r	P-8308	Forest St.	6	Asbestos Cement	120	COV 1954	607	-0.20	0.00	0.000
ſ	P-8309	Forest St.	6	Asbestos Cement	120	COV 1954	330	-1.43	0.02	0.000
	P-8310	Amold Rd.	16	Cast iron	75	COV 1890	358	42.46	0.07	0.000
ſ	P-8311	Amold Rd.	16	Cast Iron	75	COV 1890	61	38.58	0.06	0.000
Ē	P-8312	Cook St.	6	Ductile Iron	140	COV 2000	724	-2.65	0.03	0.000
- I	P-8313	Arnold Rd.	8	Asbestos Cement	125	COV 1969	565	0.00	0.00	0.000
ł	P-8314	Arnold Rd.	8	Asbestos Cement	125	COV 1969	1417	0.00	0.00	0.000
ľ	P-8315	Salvas Ave.	8	Ductile Iron	140	COV 2003	879	95.83	0.61	0.180
1	P-8316	New London Tpk.	12	Asbestos Cement	125	COV 1960	193	110.52	0.31	0.010
ŀ	P-8317	New London Tpk.	12	Ductile Iron	135	COV 1995	742	108.07	0.31	0.030
t	P-8318	New London Tok.	12	PVC	130	COV 1988	831	109.29	0.31	0.030
ł	P-8319	Prospect Ave.	6	Asbestos Cement	120	COV 1952	199	1.22	0.01	0.000
ł	P-8320	Lambert St.	1	Ductile Iron	135	COV 1997	100	1.22	0.50	0.170
ł	P-8321	Stone St.	6	Cast iron	50	COV 1940	299	-2.45	0.03	0.000
	P-8322	Ferncrest St.	8	Ductile Iron	140	COV 2001	636	181.07	1.16	0.430
	P-8323	Locust St.	8	Ductile Iron	140	COV 2001	322	152.72	0.97	0.160
ł	P-8324	Station St.	8	Asbestos Cement	125	COV 1963	3093	5.56	0.04	0.000
ł	P-8325	Station St.	8	Asbestos Cement	125	COV 1963	1343	-379.60	2.42	4.390
	P_8326	Fairway Dr.	8	Ductile Iron	130	COV 1989	150	383.94	2.45	0.470
1	P-8327	Fairway Dr.	12	Ductile Iron	130	COV 1989	175	382.72	1.09	0.070
	P-8328	Fairway Dr.	12	Ductile Iron	130	COV 1989	617	270.87	0.77	0.140
	P_8320	Fasement	12	Ductile Iron	130	COV 1989	1776	368.03	1.04	0.710
	D.2220	Facement	12	Ductile Iron	130	COV 1989	286	366.81	1.04	0.110
1	P-0330	Eastmone Faiway Or	8	Ductile Iron	130	COV 1989	452	62.27	0.40	0.050
	D 9333	Fairway Dr.	R	Ductile fron	130	COV 1989	1694	1.22	0.01	0.000
	P 9332		8	Ductile Imo	130	COV 1989	917	59.82	0.38	0.090
_	P-0333	Faiway Dr.	8	Ourtile Imn	130	COV 1989	167	-38.57	0.25	0.010
	P-0334		4	Ductile imn	130	COV 1989	377	1.22	0.01	0.000
	P-8335	Drassie ut.	- 0 	Ductile Imn	130	COV 1989	263	-1.22	0.01	0.000
	P-6336			Ductile Imp	130	COV 1989	251	41.02	0.26	0.010
	P-8337	rairway Ur.		Duntile Ima	120	COV 1989	371	1.22	0.01	0.000
	P-8338			Ductão iron	120	COV 1989	349	-43.46	0.28	0.020
	P-8339	Fairway Dr.			130	COV 1989	274	-45.91	0.29	0.020
	P-8340	Fairway Dr.	- <del>8</del>		130	COV 1989	830	-9.21	0.10	0.010
	P-8341	Niblick Cir,	<u> </u>		100	COV 1999	245	-37 03	0.24	0.010
	P-8342	Fariway Dr.	8	Ducule from	130	COV 1909	1005	-48.36	0.31	0.070
	P-8343	Fairway Dr.	8		130	COV 1909	800	-601 30	3.84	6.610
	P-8344	Flat River Rd.		Aspestos Cement	120	COV 1950	194	-236.94	1.51	0.290
	P-8345	Flat River Rd.	8	Aspestos Cement	120	COV 1950	552	365 58	2.33	1.560
	P-8346	Easement	8		120	COV 1008	496	21 87	0.06	0.000
	P-8347	Lynn Dr.	12		130	COV 1907	114	23.85	0.07	0.000
	P-8348	Lynn Dr.	12	PVC	130	COV 1907	14	.1 21	0.02	0.000
	P-8349	Reservoir Rd.		Aspestos Coment	123	COV 1903	145	-23.03	0.07	0.000
	P-8350	Reservoir Rd.		PVC	130	COV 1907	114	-1 48	0.01	0.000
	P-8352	Reservoir Rd.	8	Aspestos Cement	125	COV 1903	R1.4	7 06	0.05	0.000
	P-8353	Reservoir Rd.	8	Aspestos Cement	120	COV 1903	706	-26.64	0.08	0.000
	P-8354	Reservoir Rd.	12	PVC	1.30	COV 1907	100	37 04	0 11	0.000
	P-8355	Reservoir Rd.	12	PVC	130	COV 1907	118	0.18	0.06	0.000
	P-8356	Reservoir Rd.	8	Aspestos Cement	120	COV 1903	1.47	52 47	0.15	0.000
	P-8357	Nooseneck Hill Rd.	12	Aspestos Cement	125	COV 1900	141 A12	52.25	0.15	0.000
	P-8358	Nooseneck Hill Rd.	12	Asbestos Cement	125	001 1905	205	0.00	0.00	0.000
	P-8359	Reservoir Rd.	8	Aspestos Cement	125	001 1905	200	18.00	0.00	0.010
	P-8360	Clubhouse Rd.	8	Asbestos Cement	125	COV 1965	100	-12.00	0.09	0.000
	P-8361	Ciubhouse Rd.	8	Asbestos Cement	130	- CUV 19/4	748	-14.00	0.00	0.010
	P-8362	Clubhouse Rd.	8	Asbestos Cement	130	000 19/4	110	1 1 2 2	0.08	0,000
	P-8363	Red Cedar Dr.	8	Ductile Iron	135		3/5	1.22	0.01	0.000
	P-8364	Clubhouse Rd.	8	Ductile Iron	135	COV 1990	14/	1.22	0.01	0.000
	P-8365	Regal Wood Dr.	8	Ductile Iron	135	COV 1999	190		- 0.01	0.000
	P-8366	Howard Ave.	8	Ductile Iron	140	COV 2001	144	-50.40	0.33	0.030
	P-8367	Lincoln Ave.	8	Ductile Iron	140	COV 2001	304	1120.44	1.80	0.210
	P-8368	Lincoln Ave.	16	Asbestos Cement	120	1 000 1957		1 130.40	1.00	

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Label	Description	Diameter	Material	Hazen- Williams C	Notes	Length (ft)	Discharge (gpm)	Velocity (ft/s)	Calculated Friction Headloss (ft)
P-8369	Howard Ave.	16	Asbestos Cement	120	COV 1957	331	1183.45	1.89	0.330
P-8370	Arnes St.	16	Asbestos Cement	120	COV 1957	523	-1196.64	1.91	0.530
P-8371	Ames St.	16	Asbestos Cement	120	COV 1957	637	-1129.24	1.80	0.580
P-8372	Hill St.	8	Ductile Iron	140	COV 2001	605	68.62	0.44	0.070
P-8373	Main St.	12	Cast iron	60	COV 1886	3930	286.10	0.81	4.110
P-8374	Main St.	12	Cast iron	60	COV 1886	532	239.94	0.65	0.400
P-8375	Easement	- 6	Cast iron	/5	COV 1900	432	-44.93	0.01	0.200
P-8376	Boston St.	6	Ductile Iron	135	COV 1992	1202	-12.01	0.12	0.020
P-8377	Boston St.		Aspestos Cement	115	COV 1949	710	-6.12	0.14	0.040
P-8378	Blackrock Rd.	8		135	COV 1990	500	-7.35	0.04	0.000
P-8379	Eacomost			125	COV 1966	268	8.57	0.10	0.000
P-6300	Sandlewood Ct	- 0	Ashestos Cement	125	COV 1966	534	7.34	0.08	0.000
P_8382	Sandlewood Ct.	6	Asbestos Cement	125	COV 1966	172	1.22	0.01	0.000
D.8383	Sandlewood Ct	6	Asbestos Cement	125	COV 1966	224	-4.90	0.06	0.000
P-8384	Mominaside Dr.	6	Asbestos Cement	130	COV 1972	1148	-14.69	0.17	0.030
P-8386	Adams Dr.	12	Ductile Iron	130	COV 1989	178	-43.16	0.12	0.000
P-8387	Adams Dr.	12	Ductile Iron	130	COV 1989	416	-84.78	0.24	0.010
P-8388	Hopkins Hill Rd.	12	Ductile Iron	130	COV 1989	1847	545.04	1.55	1.520
P-8389	Road A	8	Ductile Iron	140	COV (new Pine R	500	-106.27	0.68	0:130
P-8390	Road A	8	Ductile fron	140	COV (new Pine R	530	-108.66	0.69	0.140
P-8391	Road A	8	Ductile Iron	140	COV (new Pine R	530	-111.05	0.71	0.140
P-8392	Road A	8	Ductile Iron	140	COV (new Pine R	200	-113.44	0.72	0.060
P-8393	Road C	8	Ductile Iron	140	COV (new Pine R	370	-37.36	0.24	0.010
P-8394	Road A	8	Ductile Iron	140	COV (new Pine R	160	-78.47	0.50	0.020
P-8395	Road B	8	Ductile Iron	140	COV (new Pine R	210	42.14	0.27	0.010
P-8396	Road B	8	Ductile Iron	140	COV (new Pine R	380	2.39	0.02	0.000
P-8397	Road A	8	Ductile Iron	140	COV (new Pine R	520	-123.00	0.79	0.110
P-8398	Road D	8	Ductile iron	140	COV (new Pine K	220	-127 79	0.02	0.000
P-8399	Road A	8	Ductile Iron	140	COV (new Pine R	110	7 17	0.02	0.000
P-8400	Road A	8	Ductile Iron	140	COV (new Pine R	200	4.78	0.03	0.000
P-8401	Road E		Duccle Iron	140	COV (new Pine R	515	1 20	0.00	0.000
P-8402	Road E		Ducale Iron	140	COV (new Pine R	515	-1 19	0.01	0.000
P-8403	Road E	<u>_</u>	Ductile Iron	140	COV (new Pine F	230	7.17	0.05	0.000
P-8404	ROAD A		Ductile Imp	140	COV (new Pine R	230	4.78	0.03	0.000
P-6405	Road F		Ouctile Iron	140	COV (new Pine F	590	1.20	0.01	0.000
P-0400	Road F	8	Ductile Iron	140	COV (new Pine P	590	-1.19	0.01	0.000
P-8408	Hookins Hill Bd	12	Ductile Iron	130	COV 1989	2665	651.31	1.85	3.050
P-9400	Center of New England	12	Ductile Iron	140	COV	2577	0.00	0.00	0.000
P-8411	Center of New England	16	Ductile Iron	140	COV	3192	313.21	0.50	0.200
P-8412	Hombeam Rd.	8	Ductile Iron	140	COV (new DeGra	795	7.58	0.05	0.000
P-8413	Mountain Laurel Dr.	8	Ductile Iron	140	COV (new DeGra	i <u>565</u>	-1.36	0.01	0.000
P-8414	Ross Ct.	8	Ductile Iron	140	COV (new DeGra	325	2.98	0.02	0.000
P-8415	Mountain Laurel Dr.	8	Ductile Iron	140	COV (new DeGra	<u>i 325</u>	-7.32	0.05	0.000
P-8416	Hombeam Rd.	8	Ductile Iron	140	COV (new DeGra	n <u>i 550</u>	5.96	0.04	0.000
P-8417	Hombeam Rd. Phase 2	8	Ductile Iron	140	COV (new DeGra	aj 860	2.98	0.02	0.000
P-8418	Center of New England	16	Ductile Iron	140	cov	917	0.00	0.00	0.000
P-8419	Center of New England	16	Ductile Iron	140	cov	2374	0.00	0.00	0.000
P-8420	Center of New England Blvd.	16	Ductile Iron	140	COV (Home Dep	<u>q 290</u>	6.30	0.14	0.000
P-8421	Center of New England Blvd.	16	Ductile fron	140	COV (Wal-Mart)	900	84.56	0.13	0.010
P-8422	Center of New England Blvd.	16	Ductile Iron	140	COV (125,000 R	e <u>900</u>	79.84	0.13	0.000
P-8423	Center of New England	12	Ductile Iron	140		574	11.10	0.22	0.010
P-8424	Welgen - 95 Easement	16	Ductile Iron	135	WG 1995	1041	-312.89	0.00	0.000
P-8425	Tkogue Ave.	12	Ductile Iron	140	COV 2000	1241	-0.03	2 002	0.560
P-8426	311 Residential Units	1 8	Ductile Iron	140	COV (Certine of I	V 150	10.00	0.06	0.000
P-8427	311 Residential Units	- 8	Ductile Iron	140	COV (Centre of	N 350	2.50	0.02	0.000
P-8428	311 Residential Units	8	Ducale fron	140	COV (Centre of	N 100	5.00	0.03	0.000
P-8429	311 Residential Units		Ductile Iron	140	COV (Centre of	250	2.50	0.02	0.000
P-8430	311 Residential Units		Ductile Imp	140	COV (Centre of	N 150	-325.71	2.08	0.300
P-8431	311 Residential Units			140	COV (Centre of	N 200	2.50	0.02	0.000
P-6432	31   Keskoential Units		Ductile Imn	140	COV (Centre of	N 250	-330.71	2.11	0.510
P-8433	311 Residential Units		Ductile Imn	140	COV (Centre of	N 300	2.50	0.02	0.000
P-8434	311 Desidential Linite	O 	Ductile Iron	140	COV (Centre of	N 150	-335.71	2.14	0.320
P-0435	311 Posidential Units		Ductile Iron	140	COV (Centre of	N 300	2.50	0.02	0.000
0 9427	311 Residential Units	A	Ductile Iron	140	COV (Centre of	N 100	-340.71	2.17	0.220
P 8420	311 Recidential Units	Ř	Ductile iron	140	COV (Centre of	N 100	-125.29	0.80	0.030
P-0430	311 Poeidential Unite	- <u> </u>	Ductile Iron	140	COV (Centre of	N 250	2.50	0.02	0.000
P-0439	311 Residential Units	8	Ductile Iron	140	COV (Centre of	N 150	-130.29	0.83	0.050
D_8440	311 Residential Units	8	Ductile Iron	140	COV (Centre of	N 200	2.50	0.02	0.000
P-84/2	311 Residential Units	8	Ductile Iron	140	COV (Centre of	N 150	-135.29	0.86	0.060
P.AAA3	311 Residential Units	8	Ductile Iron	140	COV (Centre of	N 210	2.50	0.02	0.000
			Ductile imp	140	COV (Centre of	N 400	-140.29	0.90	0.1/0
P-RAAA	311 Residential Units	1 0	Ducine non						
P-8444	311 Residential Units 311 Residential Units	8	Ductile Iron	140	COV (Centre of	N 150	-209.16	1.34	0.130
P-8444 P-8445 P-8446	311 Residential Units 311 Residential Units 311 Residential Units	8	Ductile Iron Ductile Iron	140 140	COV (Centre of COV (Centre of	N 150 N 300	-209.16 2.50	1.34	0.000

Label	Description	Diameter	Material	Hazen- Williams C	Notes	Length (ff)	Discharge (gpm)	Velocity (ft/s)	Friction
	211 Desidential Laits	<u>(111)</u> 8	Ductile Iron	140	COV (Centre of N	400	-216.66	1.38	0.370
P-0440	311 Residential Units	- 0	Ductile iron	140	COV (Centre of N	150	-83.17	0.53	0.020
P-8449	211 Residential Linite		Ductile imp	140	COV (Centre of N	150	-135.99	0.87	0.060
P-8450	311 Residential Units		Ductile Iron	140	COV (Centre of N	200	-89.17	0.56	0.040
P-8451	311 Residential Units	<u></u>	Ductile Iron	140	COV (Centre of N	450	2.50	0.02	0.000
P-8452	311 Residential Units	8	Ducule Iron	140	COV (Centre of M	4.00	226 66	1 45	0.100
P-8453	311 Residential Units	8	Ductile Iron	140	COV (Centre of N	- 100	-220.00	0.06	0.000
P-8454	311 Residential Units	8	Ductile Iron	140	COV (Centre of N	80	7.50	0.03	0.000
P-8455	311 Residential Units	8	Ductile Iron	140	COV (Centre of N	100	2.50	0.02	0.000
P-8456	311 Residential Units	8	Ductile iron	140	COV (Centre of N	70	2.50	0.02	0.000
P-8457	311 Residential Units	8	Ductile Iron	140	COV (Centre of N	150	-236.66	1.51	0.170
P-8458	311 Residential Units	8	Ductile Iron	140	COV (Centre of N	300	-395.71	2.53	0.860
P-8459	311 Residential Units	8	Ductile Iron	140	COV (Centre of N	800	156.55	1.00	0.410
P-8460	311 Residential Units	8	Ductile Iron	140	COV (Centre of N	1450	154.05	0.98	0.720
D 8461	311 Residential Linits	8	Ductile Iron	140	COV (Centre of N	200	217.92	1.39	0.190
D 9462	211 Desidential Lipite	A	Ductile Imp	140	COV (Centre of N	1200	-66.37	0.42	0.130
D 0402	211 Desidential Units	8	Ductile Iron	140	COV (Centre of N	100	-398.21	2.54	0.290
P-8463	311 Residential Offics	10	Ductile Imp	130	COV 1989	366	945 75	2.68	0.840
P-8464	Hopkins Hill Ro.	12	Ducute non	140	COV (Home Deor	1560	92.48	0.15	0.010
P-8465	Center of New England Blvd.	16		140	COV (Finite Dept	1500	6 10	0.02	0.000
P-8466	Universal Blvd.	12	Ductile Iron	140	COV (Centre of N	300	0.10	0.02	0.000
P-8467	Universal Blvd.	12	Ductile Iron	140	COV (Centre of N	300	0.00	0.00	0.000
P-8468	Wingate Inn	8	Ductile Iron	140	COV (Centre of N	190	6.18	0.04	0.000
P-8469	Wingate Inn	8	Ductile Iron	140	COV (Centre of N	10	6.18	0.04	0.000
P-8470	Carriage House Condominiums	8	Ductile Iron	140	COV	20	5.00	0.03	0.000
P_8471	Carriage House Condominiums	8	Ductile Iron	140	COV	400	5.00	0.03	0.000
D 9470	Sandy Rottom Pri	8	Ashestos Cement	125	COV 1965	2301	-507.66	3.24	12.880
<u>r-04/2</u>	Sandy Douorn Nu.	<u> </u>	Ductile Imp	135	COV 1999	111	-508.88	3.25	0.540
P-8473	Sandy Bottom Rd.		Ductile (OI)	140	COV 2004	6850	1 22	0.01	0.000
P-8474	Colvintown Rd.	- <u>8</u>	Ducke iron	140	COV 2000	1076	682 76	194	2 150
P-8475	Tiogue Ave.	12		140	COV 2000	107	1 0.00	0.00	0.000
P-8476	Tiogue Tank Booster Pump Station	8	Ductile Iron	140	COV 2005	197	0.00	0.00	0.000
P-8477	Tiogue Tank Booster Pump Station	6	Ductile Iron	140	COV 2005	102	0.00	0.00	0.000
P-8478	Tiogue Tank Booster Pump Station	6	Ductile iron	140	COV 2005	10	0.00	0.00	0.000
P-8479	Tioque Tank Booste Pump Station	6	Ductile Iron	140	COV 2005	10	0.00	0.00	0.000
P-8480	Tipoue Tank Booster Pump Station	6	Ductile Iron	140	COV 2005	10	0.00	0.00	0.000
P_8481	Tiogue Tank Booster Pump Station	6	Ductile Iron	140	COV 2005	10	0.00	0.00	0.000
F-0401	Tiogue Tank Booster Pump Station	6	Ductile trop	140	COV 2005	10	0.00	0.00	0.000
P-0402	Tiogue Tank Booster Pump Station		Ductile Imn	140	COV 2005	108	0.00	0.00	0.000
P-0403	Tigge Tank Booster Fump Station	12	Achectos Cement	120	COV 1953	8	59.98	0.17	0.000
P-8485	Tiogue Tank		Ductile imp	140	COV 2005	368	0.00	0.00	0.000
P-8486	Liogue Tank Booster Pump Station		Ductile Imp	140	COV 2000	261	-681.53	1.93	0.280
P-6487	Tiogue Ave.	12	Ducue non	140	COV 1069	338	_853.30	0.87	0.060
P-8488	Clarke Rd.	20	Asbestos Cement	125	001 1900	330	000.00	0.02	0.040
P-8489	Knotty Oak Rd.	20	Ductile Iron	140	COV 2005	219	904.02	0.30	0.040
P-8490	Clarke Rd.	20	Ductile Iron	140	COV 2005	600	-945.67	0.97	0.110
P-8491	Knotty Oak Rd.	20	Ductile Iron	140	COV 2005	- 132	1808.41	1.85	0.070
P-8492	Marie Dr.	8	Asbestos Cement	125	COV 1969	232	-3.67	0.02	0.000
D.8403	Marie Dr	20	Ductile fron	140	COV 2005	381	101.28	0.10	0.000
0 0404	Knothy Oak Rd	20	Ductile Iron	140	COV 2005	117	0.00	0.00	0.000
D 9405	Koothi Ook Dd	20	Ashestos Cement	120	COV 1968	2608	-3234.82	3.30	5.600
P-6495		20	Achastas Comart	120	COV 1968	286	-1901.13	1.94	0.230
P-8496	Knotty Oak Ko.		Asucatos vennent	140	COV 2005	4121	-1333 69	1.36	1.290
P-8497	Gervals St.	20	Ductile fron	140	001 2005	4.45	0.00	1 0 00	0.000
P-8498	Gervais St.	12	Ductile Iron	140		145	1015 02	1 1 20	0.520
P-8499	Blackrock Rd.	24	Ductile Iron	140	COV 2005	2319	1010.00	1.43	0.000
P-8500	Blackrock Rd.	24	Ductile Iron	140	COV 2005	1208	1015.83	1.28	0.200
P-8501	Biackrock Rd.	24	Ductile Iron	140	COV 2005	2397	-3149.52	2.23	1,510
P-8502	Blackrock Rd.	24	Ductile Iron	140	COV 2005	691	-3149.52	2.23	0.440
P_8504	Hill St	24	Ductile Iron	140	COV 2005	168	154.82	0.11	0.000
0.004			Ductile Iron	140	COV 2005	269	-3453.90	2.45	0.200
COCO-1			Ductile Imn	140	COV 2005	1506	-3299.07	2.34	1.040
P-8506		24	Ductile Ima	1.40	COV 2005	1040	-3299.07	2.34	0.720
P-8507	Colvin St.	- 24		140	COV 2005	210	1910 81	1.36	0.050
P-8508	Colvin St.	24	L/UCONE IFON	140	COV 1057	334	1343.26	2.14	0.420
P-8509	Howard Ave.	16	Aspestos Cement	120	COV 1801		0.00	0.00	0.000
P-8510	Riverwalk Commons	8	Ductile Iron	140	COV (new reside		0.00	0.00	0.000
P-8511	Riverwalk Commons	8	Ductile Iron	140		10	0.00		0.000
P-8512	Hopkins Hill Rd.	12	Ductile Iron	130	- COV 1989	1/2	0.00	- 0.00	0.000
P-8513	Tiogue Ave.	8	Asbestos Cement	115	COV 1948	1136	0.00	0.00	0.000
P-8514	Clifton Ave.	6	Asbestos Cement	120	COV 1956	97	0.00	0.00	0.000
D_8515	t inwood Dr	6	Asbestos Cement	125	COV 1963	111	0.00	0.00	0.000
D.0510	1 orraine Ave	6	Asbestos Cement	120	COV 1959	674	0.00	0.00	0.000
P-0010	Linute Aug		Asbestos Cement	120	COV 1958	183	0.00	0.00	0.000
<u>P-6517</u>			Ashestos Cement	120	COV 1954	1175	0.00	0.00	0.000
P-8518			Achectro Comon	130	COV 1978	290	24.96	0.16	0.010
P-8519	Circlewood Dr.			140	COV 2005	470	13.90	0.04	0.000
P-8520	Nooseneck Hill Rd. (Leisure Condos)	12		140	COV 2005	640	6.95	0.04	0.000
P-8521	Leisure Way (Leisure Condos)	8	Ductile Iron	140	001/2005		2.09	0.01	0.000
P-8522	Chole Ct.	8	Ductile Iron	140			20.42	0.00	0.000
P-8523	Hill Farm Rd.	12	Asbestos Cement	130	COV 1982		30.42	0.08	0.000
P-9524	Northup Rd. (Hawk Crest Estates)	8	Ductile Iron	140	COV 2005	2410	12.20	0.00	1 400
D-8525	Clark Mill St	8	Ductile Iron	140	<u>COV 2005</u>	<u>  2520</u>	144.51	0.92	1.120

					Demand (Caiculated)	Calculated Hydraulic	Pressure
Label	Elevation (ft)	Zone	Notes	Pattern	(gpm)	Grade (ft)	(psi)
J-1	300	Zone - 2	WW	Fixed	1.54	495.02	84.38
J-2	290	Zone - 2	W	Fixed	1.54	495.05	88.71
J-3	320	Zone - 2		Fixed	1.54	495.05	/5./4
J-4	295	Zone - 2	W	Fixed	1.54	495.05	86.55
J-5	310	Zone - 2		Fixed	1.54	495.06	80.07
J-6	310	Zone - 2		Fixed	1.54	495.09	80.08
J-7	310	Zone - 2	WW	Fixed	1.54	495.09	80.08
J-8	295	Zone - 2		Fixed	1.54	495.11	86.58
J-9	293	Zone - 2		Fixed	1.54	495.09	87.43
J-10	290	Zone - 2	WW	Fixed	1.54	495.07	88.72
J-11	327	Zone - 2		Fixed	1.54	495.17	12.76
J-12	293	Zone - 2		Fixed	1.54	495.13	87.45
J-13	300	Zone - 2		Fixed	1.54	495.00	84.37
J-14	290	Zone - 2	W	Fixed	1.54	495.12	88.74
J-15	300	Zone - 2		Fixed	1.54	495.15	84.43
J-16	300	Zone - 2		Fixed	1.54	495.20	84.45
J-17	265	Zone - 2		Fixed	1.54	495.73	99.82
J-18	300	Zone - 2	WW	Fixed	1.54	495.35	84.52
J-19	261	Zone - 2	WW	Fixed	1.54	495.50	101.46
J-20	240	Zone - 2	WW	Fixed	1.54	495.71	110.63
J-21	255	Zone - 2	WW	Fixed	1.54	495.77	104.17
J-22	265	Zone - 2	ww	Fixed	1.54	495.78	99.85
J-23	263	Zone - 2	ŴŴ	Fixed	1.54	495.64	100.65
J-24	263	Zone - 2	ww	Fixed	1.54	495.63	100.65
1-25	250	Zone - 2	ww	Fixed	1,54	495.63	106.27
1-26	266	Zone - 2	WW	Fixed	1.54	495.60	99.34
L27	261	Zone - 2	WW	Fixed	1.54	495.61	101.50
1-28	250	Zone - 2	WW	Fixed	1.54	495.55	106.24
1-29	261	Zone - 2	WW	Fixed	1.54	495.54	101.47
1-20	260	Zone - 2	WW	Fixed	1.54	495.48	101.88
1-31	330	Zone - 2	ww	Fixed	1.54	495.23	71.49
1 22	330	Zone - 2	WW	Fixed	1.54	495.23	80.14
1.22	300	Zone - 2		Fixed	1.54	495.35	84.52
J-33	300	7000 2	1444	Fixed	1.54	495.52	101.90
J-34	200	7000 5	1444	Fixed	1.54	230.27	68.91
J-30	/1	Zone - 3		Fixed	1.54	495.86	93.39
<u>J-36</u>	200	Zone - Z	1404/	Fixed	1.54	495.96	121.56
<u>J-3/</u>	215			Fixed	1.54	496 10	118.16
J-38	223	Zone - Z	<u> </u>	Fived	1 54	496 59	118.37
<u> </u>	223	Zone - Z	<u> </u>	Fived	1.54	495.86	97.72
J-40	2/0		 \\\\\\\ \\\\\\\	Eivad	1.54	495 86	97 72
J-41	270	2		Eived	1.54	495.86	98.15
J-42	269	20ne - 2		Fixed	1.54	405 80	101 20
J-43	262			Fixed	1.34	AQ5 97	121 52
J-44	215	Zone - 2		Fixed	1.54	495.87	97.29
J-45	271	Zone - 2		Eived	1.54	405.00	115.04
J-46	230	Zone - 2		Fixed	1.54	495.90	115.04
J-47	230	Zone - 2		- Fixed	1.54	495 84	106.36
J-48	250	20ne - 2		Elvad	1.54	404 04	73.53
J-49	325	Zone - 2		Eiver	1.04	101 01	80.08
J-50	287	Zone - 2		Fixed	1.04	A04 02	108 12
J-51	245	Zone - 2		rixeo	1.04 4 E A	40702	105.13
J-52	250	Zone - 2		Fixed	1.34	A04.02	109.37
J-54	245	Zone - 2	WWV	rixed	1.04	ADA 02	101.64
J-55	260	Zone - 2		Dexin	1.34	ADA 02	101.04
J-56	260	Zone - 2		- IXED	1.04	404.03	00.82
J-57	285	Zone - 2		Fixed	1.54	494.83	105.07
J-58	250	Zone - 2		-ixed	1.54	484.83	07.22
J-59	270	Zone - 2		-ixed	1.54	494.93	DA 26
J-60	300	Zone - 2	WW	-ixed	1.54	494.98	04.00
J-62	281	Zone - 2		Fixed	1.54	490.80	90.55
J-63	290	Zone - 2		Fixed	1.54	497.00	102.50
	260	7000-2	1 ww	Fixed	1.54	496.98	102.53

					Demand	Calculated	_
					(Calculated)	Hydraulic	Pressure
Label	Elevation (ft)	Zone	Notes	Pattern	(gpm)	Grade (ft)	(psi)
J-65	250	Zone - 2		Fixed	1.54	496.98	106.86
J-66	272	Zone - 2	ww	Fixed	1.54	497.04	97.36
J-67	289	Zone - 2	WW	Fixed	1.54	497.26	90.10
J-68	289	Zone - 2	WW	Fixed	1.54	496.87	89.94
J-69	270	Zone - 2	WW	Fixed	1.54	497.01	98.22
J-70	332	Zone - 2	WW	Fixed	1.54	497.16	71.46
J-71	300	Zone - 2	ww	Fixed	1.54	497.16	85.30
J-72	255	Zone - 2	WW	Fixed	1.54	496.95	104.68
J-73	230	Zone - 2	ww	Fixed	1.54	335.18	45.51
.1-74	170	Zone - 1	ww	Fixed	1.54	335.18	71.47
1-75	190	Zone - 1	ww	Fixed	1.54	335,18	62.81
1-76	200	Zone - 1	WW	Fixed	1.54	335.18	58.49
1.77	180	Zone - 1	WW	Fixed	1.54	335.18	67.14
J-77 170	170	Zone - 1	WAW	Fixed	1.54	335.14	71.45
J-70	1/0	Zone 1	1000/	Fixed	1.54	335 17	67 14
1-19	100	Zone - 1	14/14/	Fixed	1.54	335.17	67 14
<u>J-80</u>	180	Zone - I		Eived	1.54	335.10	67.14
<u>J-81</u>	180		100A/	Fixed	1.54	125.76	89.03
J-82	195			Fixed	1.04	335.20	71 50
<u>1-83</u>	1/0	Zone - 1		Elveral	1,04 A EA	325 42	67.24
J-84	180	Zone - 1		rixed	1.04	225 52	71.60
J-85	170	Zone - 1	VVVV	FIXED	1.54	335,33	60.75
J-86	195	Zone - 1	WW	FIXED	1.54	333.42	00.73
J-87	255	Zone - 1	WW	Fixed	1.54	333.95	34.10
J-88	241	Zone - 2		Fixed	1.54	333.94	40.21
J-89	180	Zone - 2	WW	Fixed	1.54	496.89	137.10
J-90	175	Zone - 2		Fixed	1.54	496.98	139.31
J-91	290	Zone - 2	WW	Fixed	1.54	497.03	89.57
J-92	270	Zone - 2	WW	Fixed	1.54	497.01	98.22
J-93	260	Zone - 2	ww	Fixed	1.54	497.02	102.55
J-94	322	Zone - 2	WW	Fixed	1.54	497.04	75.73
J-95	300	Zone - 2	WW	Fixed	1.54	497.04	85.25
J-96	300	Zone - 2	WW	Fixed	1.54	497.04	85.25
J-97	260	Zone - 2	WW	Fixed	1.54	496.97	102.52
1-98	270	Zone - 2	WW	Fixed	1.54	496.96	98.20
1-00	273	Zone - 2	WW	Fixed	1.54	496.99	96.91
1100	260	Zone - 1		Fixed	1.54	335.04	32.47
1_101	280	Zone - 2	ww	Fixed	1.54	496.97	93.87
1.102	200	7000-2	ww	Fixed	1.54	496.98	102.53
1402	200	Z000 - 2	1000/	Fired	1.54	496.98	106.86
J-103	200		\\\\\\\	Fixed	1.54	334.06	55.84
J-104	200	20110 - 1		Fived	1.54	496.95	106.84
J-105	250	Zone - Z	1404/	Eived	1.54	496.95	106.84
J-106	250	Zone - 2		FIXED	4 54	406.05	98.10
J-107	270	Zone - 2		Cived	1.04	100.00	02.87
J-108	280	Zone - 2			1.04	400.50	03.07
J-109	280	Zone - 2		Fixed	1.04	490.90	102.82
J-110	257	Zone - 2			1.34	480.83	09.10
<u> </u>	270	Zone - 2		Fixed	1.54	490.95	07.20
J-112	272	Zone - 2	WW	Fixed	1.54	490.95	109 57
J-113	246	Zone - 2		⊢ixed	1.54	490.94	100.57
J-114	260	Zone - 2		Fixed	1.54	496.95	102.52
J-115	250	Zone - 2		Fixed	1.54	496.95	106.84
J-116	240	Zone - 2	WW	Fixed	1.54	496.94	$+\frac{111.17}{20000}$
J-117	266	Zone - 2	WW	Fixed	1.54	496.95	99.92
J-118	246	Zone - 2		Fixed	1.54	496.95	108.57
J-119	250	Zone - 2	WW	Fixed	1.54	496.94	106.84
J-120	264	Zone - 2	WW	Fixed	1.54	496.94	100.78
J-121	250	Zone - 2	WW	Fixed	1.54	496.94	106.84
J-122	240	Zone - 2	WW	Fixed	1.54	496.94	111.17
J-123	247	Zone - 2	WW	Fixed	1.54	496.94	108.14
J-124	240	Zone - 2	WW	Fixed	1.54	496.94	111.17
J-125	260	Zone - 2	ww	Fixed	1.54	496.95	102.52
1-126	259	Zone - 2	ww	Fixed	1.54	496.89	102.92
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					Demand (Calculated)	Calculated Hydraulic	Pressure
Label	Elevation (ft)	Zone	Notes	Pattern	(gpm)	Grade (ft)	(psi)
J-127	262	Zone - 2	ww	Fixed	1.54	496.94	101.65
J-128	245	Zone - 2	ww	Fixed	1.54	496.94	109.00
J-129	245	Zone - 2	WW	Fixed	1.54	496.94	109.00
J-130	250	Zone - 2	WW	Fixed	1.54	496.94	106.84
J-131	241	Zone - 2	WW Quaker Valley Condo	Fixed	13.78	496.89	110.71
J-132	250	Zone - 2	WW	Fixed	1.54	496.89	106.82
J-133	83	Zone - 5	ww	Fixed	1.54	230.42	63.78
J-134	71	Zone - 5	ww	Fixed	1.54	230.42	68.97
J-135	76	Zone - 5	WW	Fixed	1.54	230.42	66.81
J-136	82	Zone - 5	ww	Fixed	1.54	230.41	64.21
J-137	82	Zone - 5	WW	Fixed	1.54	230.41	64.21
J-138	76	Zone - 5		Fixed	1.54	230.41	66.81
J-139	75	Zone - 5		Fixed	1.54	230.42	67.24
J-140	74	Zone - 5	WW	Fixed	1.54	230.41	67.67
J-141	75	Zone - 5	WW	Fixed	1.54	230.40	67.23
J-142	74	Zone - 5	WW	Fixed	1.54	230.40	67.67
J-143	79	Zone - 5	ŴŴ	Fixed	1.54	230.41	65.51
J-144	75	Zone - 5	ww	Fixed	1.54	230.41	67.24
J-145	71	Zone - 5	ww	Fixed	1.54	230.41	68.97
J-146	73	Zone - 5	ww	Fixed	1.54	230.39	68.10
J-147	74	Zone - 5	ww	Fixed	1.54	230.41	67.67
J-148	75	Zone - 5	WW	Fixed	1.54	230.38	67.22
J-149	68	Zone - 5	ww	Fixed	1.54	230.32	70.23
J-150	64	Zone - 5	ŴŴ	Fixed	1.54	230.31	71.96
J-151	64	Zone - 5	ww	Fixed	1.54	230.31	71.96
J-152	58	Zone - 5	ww	Fixed	1.54	230.31	74.55
1-153	56	Zone - 5	ŴŴ	Fixed	1.54	230.31	75.42
J-154	57	Zone - 5	ww	Fixed	1.54	230.31	74.98
J-155	59	Zone - 5	ww	Fixed	1.54	230.27	74.10
J-156	55	Zone - 5	WW	Fixed	1.54	230.26	75.83
1-157	55	Zone - 5	WW	Fixed	1.54	230.27	75.83
1-158	52	Zone - 5	WW	Fixed	1.54	230.25	77.12
J-159	52	Zone - 5	ww	Fixed	1.54	230.24	77.12
L160	60	Zone - 5		Fixed	1.54	230.23	73.65
1_161	60	Zone - 5	ww	Fixed	1.54	230.23	73.65
1.162	60	Zone - 5	ww	Fixed	1.54	230.23	73.65
1 162	60	Zone - 5	WW	Fixed	1.54	230.23	73.65
1-164	50	Zone - 5		Fixed	1.54	230.22	77.97
1.165	70	Zone - 5	ww	Fixed	1.54	230.22	69.32
J-10J	120	7000-5	ww	Fixed	1.54	230.22	47.69
J-100		7000-5	ww	Fixed	1.54	230.26	72.80
J*10/	04	Zone - 5		Fixed	1.54	230.26	71.07
J-100	62	7000-5		Fixed	1.54	230.25	72.36
J-109	60	Zone - 5		Fixed	1.54	230.25	72.79
J-170	72	7000-5		Fixed	1.54	230.25	68.47
J-171	1 <u>2</u>	7000-5		Fixed	1.54	230.25	71.93
J-172		Zone - 5		Fixed	1.54	230.25	68.90
J-173		7008 - 5		Fixed	1.54	230.41	67.24
J-1/4		Zone 5		Fixed	1.54	230.41	67.24
J-1/3	13	Zono 5		Fixed	1.54	230.41	66.37
J-1/0	11	7000 - 5		Fixed	1.54	230.40	66.80
J-1//	10	7000 5		Fixed	1.54	227.71	66.07
J-1/8	- 10 76	7000 5		Fixed	1.54	230.40	67.23
<u>J-179</u>	75	2018-3		Fixed	1.54	230.40	67.67
J-180	74			Fixed	1.54	230.40	67.67
J-181	/4	Zone - 5	<u> </u>	Fixed	1.54	230.41	72.86
J-182	62	Zone - 5		Fixed	1.54	230.41	71.13
<u>J-183</u>	00	Z0118-3	1000	Fixed	1.54	327.73	114.10
J-184	59			Fixed	1.54	327.73	116.70
<u>J-185</u>	58			Fixed	1.54	327.72	121.89
	40			Fixed	1.54	327.72	125.78
<u>J-18/</u>	- 31			Fixed	1.54	327.72	124.05
J-168	41		****	1 1000			

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					Demand (Calculated)	Calculated Hydraulic	Pressure
Label	Elevation (ft)	Zone	Notes	Pattern	(gpm)	Grade (ft)	(psi)
J-189	42	Zone - 1		Fixed	1.54	327.72	123.62
J-190	42	Zone - 1	W	Fixed	1.54	327.72	123.62
J-191	42	Zone - 1	WW	Fixed	1.54	327.73	123.62
J-192	56	Zone - 1	WW	Fixed	1.54	327.72	117.56
<u>J-193</u>	59	Zone - 1		Fixed	1.54	327.72	116.26
J-194	66	Zone - 1		Fixed	1.54	327.72	113.24
J-195	60	Zone - 1		Fixed	1.54	327.72	115.83
J-190	180	Zone - 1		Fixed	1.54	327.72	63.91
J-19/	70	Zone - I		Fixed	1.54	321.13	108.05
1.200	70	Zone - 1		Fixed	1.34	327.75	100.00
1-200	52	Z00e - 1	<u> </u>	Fixed	1.04	327.94	119.00
1-202	104	Zone - 1	VVVV \\\\\\\	Fixed	1.34	320.01	0677
1.202	F2	Z000 1		Fixed	1.04	327.07	110.77
1-203	141	Z000 - 1		Fixed	1.54	327.07	90.72
1205	141	Zone - 1		Fixed	1.54	327.50	95.49
1205	149	Zone 1		Fixed	1.54	327.50	00.40 77.67
1-200	1/10	Zone 1	<u>****</u>	Eived	1.54	327.51	77 66
1-202	140			Fixed	1.04	327.51	77 66
1-200	140	Zone - 1	<u>νγνν</u> \ΔΔΔ/	Fixed	1.04	327.51	76.90
1-210	190	Zone - 1		Fixed	1.54	327.00	63.80
1.211	100	Zone - 1		Fixed	1.54	327.46	65.00
1-212	177	Zone - 1	ww	Fixed	1.54	327 44	65.09
1-213	190	Zone - 1	ww	Fixed	1.54	327 44	59.46
1-214	205	Zone - 1	ww	Fixed	1.54	327.42	52 97
-215	205	Zone - 1	ww	Fixed	1.54	327.41	52.96
1-216	203	Zone - 1	ww	Fixed	1.54	327.41	53.83
J-217	200	Zone - 1	WW	Fixed	1.54	327.41	55.12
J-220	206	Zone - 1	WW	Fixed	1.54	327.41	52.53
J-221	88	Zone - 1	WW	Fixed	1.54	327.95	103.82
J-222	94	Zone - 1	WW	Fixed	1.54	327.96	101.22
J-223	134	Zone - 1	WW	Fixed	1.54	327.99	83.93
-224	88	Zone - 1	WW	Fixed	1.54	327.93	103.81
-225	65	Zone - 1	WW	Fixed	1.54	327.91	113.75
J-226	65	Zone - 1	WW	Fixed	1.54	327.90	113.75
J-227	94	Zone - 1	WW	Fixed	1.54	327.89	101.19
J-228	94	Zone - 1	ww	Fixed	1.54	327.88	101.19
J-229	94	Zone - 1	ww	Fixed	1.54	327.88	101.19
J-230	95	Zone - 1	ww	Fixed	1.54	327.88	100.76
J-231	85	Zone - 1	ww	Fixed	1.54	327.88	105.08
J-232	95	Zone - 1	WW	Fixed	1.54	327.88	100.75
J-233	95	Zone - 1	WW	Fixed	1.54	327.86	100.75
J-234	100	Zone - 1	WW	Fixed	1.54	327.83	98.57
J-235	100	Zone - 1	ww	Fixed	1.54	327.83	98.57
J-236	105	Zone - 1	WW	Fixed	1.54	327.83	96.41
J-237	105	Zone - 1	WW	Fixed	1.54	327.83	96.41
J-238	85	Zone - 1	WW	Fixed	1.54	335.75	108.49
J-239	85	Zone - 1	WW	Fixed	1.54	335.74	108.48
J-240	82	Zone - 1	WW	Fixed	1.54	335.73	109.78
<u>J-241</u>	88	Zone - 1		Fixed	1.54	335.73	107.18
J-242	89	Zone - 1	W	Fixed	1.54	335.73	106.75
J-243	99	Zone - 1	W	Fixed	1.54	335.73	102.42
J-244	93	Zone - 1	W	Fixed	1.54	335.73	105.02
J-245	98	Zone - 1	WW	Fixed	1.54	335.73	102.85
J-246	119	Zone - 1	<u>ww</u>	-ixed	1.54	335.73	93.77
J-247	98	Zone - 1		-ixed	1.54	335.72	102.85
J-248	125	Zone - 1		-ixed	1.54	335.72	91.37
J-249	90	Zone - 1		Fixed	1.54	335.72	100.31
<u>J-250</u>	105	Zone - 1			1.54	330.72	114 10
J-251	72	Zone - 1	VVW	Fixed	1.54	335.12	112.04
J-252	74			Eived	1.04	335.72	112.24
J-253	1 74	⊥ ∠one - 1	4444	LLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLL	1.04	1 333.12	110.29

		T			Demand	Calculated		
					(Calculated)	Hydraulic	Pressure	
Label	Elevation (ft)	Zone	Notes	Pattern	(gpm)	Grade (ft)	(psi)	
J-254	87	Zone - 1	WW	Fixed	1.54	340.74	109.78	
J-255	160	Zone - 1	WW	Fixed	1.54	340.80	78.22	
J-256	200	Zone - 1	ww	Fixed	1.54	340.81	60.92	
J-257	176	Zone - 1	ww	Fixed	1.54	340.80	71.30	
J-258	209	Zone - 1	WW	Fixed	1.54	340.81	57.03	
J-259	231	Zone - 1	WW	Fixed	1.54	340.81	47.51	
J-260	240	Zone - 1	WW	Fixed	1.54	340.81	43.62	
J-261	251	Zone - 1	ww	Fixed	1.54	340.81	38.86	
J-262	261	Zone - 1		Fixed	1.54	340.82	34.53	
J-263	248	Zone - 1		Fixed	1.54	340.81	40.16	
J-264	170	Zone - 1	ww	Fixed	1.54	340.81	73.90	
J-265	223	Zone - 1	ww	Fixed	1.54	340.81	50.97	
J-266	248	Zone - 1	WW	Fixed	1.54	340.81	40.15	
J-267	220	Zone - 1	ww	Fixed	1.54	340.81	52.27	
J-268	249	Zone - 1	ww	Fixed	1.54	340.81	39.72	
J-269	250	Zone - 1	WW Equity Residential Prop. Trust	Fixed	19.16	340.83	39.30	
J-270	246	Zone - 1	ww	Fixed	1.54	341.03	41.11	
J-271	229	Zone - 1	WW	Fixed	1.54	341.06	48.48	
J-272	190	Zone - 1	WW	Fixed	1.54	341.06	65.36	
J-273	203	Zone - 1	WW	Fixed	1.54	341.06	59.73	
J-274	222	Zone - 1	WW	Fixed	1.54	341.09	51.52	
J-275	210	Zone - 1	WW	Fixed	1.54	341.08	56.71	
J-276	210	Zone - 1	WW	Fixed	1.54	341.08	56.71	
1-277	163	Zone - 1	WW	Fixed	1.54	341.08	77.05	
J-278	185	Zone - 1	WW	Fixed	1.54	341.07	67.53	
J-279	195	Zone - 1	ww	Fixed	1.54	341.17	63.24	
J-280	185	Zone - 1	WW	Fixed	1.54	341.17	67.57	
J-281	175	Zone - 1	WW	Fixed	1.54	341.21	71.91	
J-282	185	Zone - 1	ww	Fixed	1.54	341.21	67.58	
J-283	145	Zone - 1	ww	Fixed	1.54	341.22	84.89	
J-284	150	Zone - 1	WW	Fixed	1.54	341.29	82.76	
J-285	153	Zone - 1	WW	Fixed	1.54	341.21	81.43	
J-286	163	Zone - 1	WW	Fixed	1.54	341.10	77.05	
1-287	157	Zone - 1	WW	Fixed	1.54	341.20	79.70	
J-288	157	Zone - 1	WW	Fixed	1.54	341.20	79.69	
J-289	172	Zone - 1	ww	Fixed	1.54	341.07	73.15	
J-290	172	Zone - 1	ww	Fixed	1.54	340.72	73.00	i
J-291	159	Zone - 1	WW	Fixed	1.54	341.06	78.77	
J-292	168	Zone - 1	ww	Fixed	1.54	341.06	74.88	
J-293	176	Zone - 1	ww	Fixed	1.54	341.06	71.41	ĺ
J-294	157	Zone - 1	ww	Fixed	1.54	341.39	79.78	
.1-205	130	Zone - 1	WW	Fixed	1.54	341.39	91.46	
1.206	130	Zone - 1	ww	Fixed	1.54	341.39	91.46	
1-207	144	Zone - 1	ww	Fixed	1.54	341.39	85.40	
.1_208	144	Zone - 1	WW	Fixed	1.54	342.10	85.71	
j-290	150	Zone - 1	WW	Fixed	1.54	342.10	83.11	
J-300	151	Zone - 1	ww	Fixed	1.54	347.93	85.20	
1-301	158	Zone - 1	WW	Fixed	1.54	348.85	82.57	
J-302	163	Zone - 1	WW	Fixed	1.54	349.65	80.75	Į
1-303	158	Zone - 1	ww	Fixed	1.54	348.85	82.57	
J_304	160	Zone - 1	WW	Fixed	1.54	348.85	81.71	
J-305	181	Zone - 1	WW	Fixed	1.54	349.05	72.71	
J-306	192	Zone - 1	WW	Fixed	1.54	348.44	67.68	
J-307	220	Zone - 1	ww	Fixed	1.54	349.05	55.84	
1-308	223	Zone - 1	ww	Fixed	1.54	346.93	53.62	
1.300	220	Zone - 1	WW	Fixed	1.54	346.93	54.92	•
1-310	216	Zone - 1	ww	Fixed	1.54	346.40	56.42	
1.211	220	Zone - 1	ww	Fixed	1.54	346.40	54.69	
1.312	210	Zone - 1	ww	Fixed	1.54	345.86	58.78	
1.212	184	Zone - 1	ww	Fixed	1.54	345.76	69.99	
J-313	190	Zone - 1	WW	Fixed	1.54	345.76	67.39	
1_215	170	Zone - 1	ww	Fixed	1.54	345.76	76.04	
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	I	·· ••			Demand	Calculated	
					(Calculated)	Hydraulic	Pressure
Labei	Elevation (ft)	Zone	Notes	Pattern	(gpm)	Grade (ft)	(psi)
J-317	205	Zone - 1	WW	Fixed	1.54	343.77	60.04
J-318	214	Zone - 1	WW	Fixed	1.54	343.77	56.15
J-319	186	Zone - 1	WW	Fixed	1.54	343.39	68.10
.1-320	216	Zone - 1	WW	Fixed	1.54	343.39	55.12
.1-321	205	Zone - 1	ww	Fixed	1.54	343.39	59.88
1-322	150	Zone - 1	ww	Fixed	1.54	342.53	83.30
1-323	150	Zone - 1	ww	Fixed	1.54	342.55	83.31
1-324	159	Zone - 1	ww	Fixed	1.54	343.86	79.98
1-325	184	Zone - 1	ww	Fixed	1.54	343.86	69.16
1-328	148	Zone - 1	WWW	Fixed	1.54	341 84	83.87
1-320	150	Zone - 1	\AAA/	Fixed	1.54	341 84	79 11
1-320	146	Zone - 1	WW/	Fixed	1 54	341.82	84 72
1 221	150	Zone - 1	1000	Fixed	1.54	341.82	82.99
1 222	150	Zone 1	1000/	Fixed	1.54	341.82	82.00
1 222	150	Z00e-1	VVV	Eived	1.54	341.82	81 26
J-333	104	Zone - 1			1.54	222.97	92.59
J-334	143	Zone - 1	VVV	Fixed	1.04	222.07	02.00
J-335	146	Zoné - 1		Fixed	1.04	333.01	01.20
J-336	141	20ne - 1		rixed	1.54	333.00	03.44
J-337	143	Zone - 1	WW	Fixed	1.54	335.13	83.12
J-338	143	Zone - 1		- Fixed	1.54	334.89	83.02
J-339	143	Zone - 1		Fixed	1.54	337.57	84.18
J-340	143	Zone - 1	WW	Fixed	1.54	337.49	84.15
J-341	139	Zone - 1	WW	Fixed	1.54	338.10	86.14
J-342	141	Zone - 1	WW	Fixed	1.54	333.85	83.44
J-343	141	Zone - 1		Fixed	1.54	333.84	83.43
J-344	149	Zone - 1	WW	Fixed	1.54	333.84	79.97
J-345	164	Zone - 1		Fixed	1.54	333.78	73.46
J-346	164	Zone - 1	WW	Fixed	1.54	333.78	73.46
J-347	152	Zone - 1	ww	Fixed	1.54	333.66	78.59
J-348	161	Zone - 1	WW	Fixed	1.54	333.67	74.70
J-349	164	Zone - 1	ww	Fixed	1.54	333.69	73.42
J-350	172	Zone - 1	WW	Fixed	1.54	333.65	69.94
J-351	182	Zone - 1	WW	Fixed	1.54	333.65	65.61
J-352	172	Zone - 1	WW	Fixed	1.54	333.65	69.94
J-353	170	Zone - 1	WW	Fixed	1.54	333.65	70.80
1-354	176	Zone - 1	WW	Fixed	1.54	333.65	68.21
1-355	170	Zone - 1	WW	Fixed	1.54	333.66	70.81
1-356	149	Zone - 1	WW	Fixed	1.54	333.92	80.01
1.358	149	Zone 1	ww	Fixed	1.54	333.80	79.95
J_350	144	Zone - 1	ww	Fixed	1.54	333.77	82.10
1-360	125	Zone - 1	ww	Fixed	1.54	333.77	86.00
1.201	100	Zone - 1	ww	Fixed	1.54	333.77	75.18
1-262	160	Zone - 1	ww	Fixed	1.54	333.74	75.17
1.262	170	Zone 1	1000	Fixed	1 54	333.68	69.95
1.264	470	Zone - 1		Fixed	1 54	333.62	69.93
1.205	1/2	Zono 4	1444	Fixed	1.54	333 68	65.63
J-300	102	7000 4	1000	Fired	1 54	333.69	63.03
J-300	100	Zune - 1	\\\\\\/	Fixed	1 54	333 73	63.05
J-367	188	Zone - 1	<u> </u>	Fived	1.54	333 73	60.89
J-368	193		¥¥¥¥ 1AAA/	Fixed	1 6.4	332.82	58.33
J-369	198	Zone - 1		Elund	1.04	332.02	63.52
J-370	187	Zone 1		Fixed	1.04	200.01	62.97
J-371	189	<u> 20ne - 1</u>	VVVV	Fixed	1.04	222.04	64.92
J-372	184	Zone - 1	VVVV		4.54	232.01	56 56
J-373	203	Zone - 1		Fixed	1.04	232.72	56.56
J-374	203	Zone - 1	WWW		1.34	322.72	64 20
J-375	208	Zone - 1		Fixed	1.04	222 72	52.06
J-376	209	Zone - 1		Fixed	1.04	222.74	57 42
J-377	201	Zone - 1	WW	-ixed	1.54	323./1	56 56
J-378	203	Zone - 1		FIXED	1.54	333./1	50.00
J-379	205	Zone - 1		Fixed	1.54	333./1	54.20
J-380	208	Zone - 1		Fixed	1.54	333.09	27.30
J-381	280	Zone - 1	W	Fixed	1.54	332.84	22.80

			<u> </u>		Demand (Calculated)	Calculated	Breast
		_	Madaa	Dallara		Crode (ft)	ressure
Label	Elevation (ft)	Zone	Notes	Pattern	(gpm)		( <b>psi</b> )
J-382	198	Zone - 1	VVV	Fixed	1.04	332.33	55.03
J-383	203	Zone - 1		Fixed	1.54	332.20	58 20
J-384	198	Zone - 1		Fixed	1.04	332.52	58 20
J-385	198	Zone - 1	<u> </u>	Fixed	1.54	332.52	53.01
1297	210	Zone - 1	1404/	Fixed	1.54	332.52	61 23
J-30/	191	Zone - I		Fixed	1.54	332.52	49.12
J-300	219	Zone - 1	1444	Fixed	1.54	332.26	44.24
1-309	205	Zone - 1	WW	Fixed	1.54	332.14	55.01
1-301	101	Z01e - 1	WW	Fixed	1.54	332.96	61.42
1-302	210	Zone - 1	ww	Fixed	1.54	333.35	53.37
1-303	202	Zone - 1	WW	Fixed	1.54	333.27	56.79
.1-394	190	Zone - 1	WW	Fixed	1.54	333.21	61.96
.1-395	189	Zone - 1	ww	Fixed	1.54	333.14	62.36
1-396	213	Zone - 1	WW	Fixed	1.54	333.14	51.98
1-397	208	Zone - 1	ww	Fixed	1.54	333.71	54.39
1-398	180	Zone - 1	ww	Fixed	1.54	334.45	66.82
J-399	189	Zone - 1		Fixed	1.54	333.92	62.70
J-400	219	Zone - 1	ww	Fixed	1.54	333.79	49.67
J-401	208	Zone - 1	ww	Fixed	1.54	332.04	53.67
J-402	220	Zone - 2	WW	Fixed	1.54	496.95	119.82
J-403	230	Zone - 2	WW	Fixed	1.54	496.95	115.50
J-404	250	Zone - 2	WW	Fixed	1.54	496.95	106.84
J-405	247	Zone - 2	WW	Fixed	1.54	496.95	108.14
J-406	206	Zone - 1	WW	Fixed	1.54	332.76	54.84
J-407	230	Zone - 2	WW	Fixed	1.54	496.96	115.50
J-408	230	Zone - 2	WW	Fixed	1.54	496.96	115.50
J-409	235	Zone - 2	WW	Fixed	1.54	496.96	113.34
J-410	225	Zone - 2	WW	Fixed	1.54	496.96	117.66
J-411	241	Zone - 2	ww	Fixed	1.54	496.96	110.74
J-412	228	Zone - 2	WW	Fixed	1.54	496.96	116.37
J-413	255	Zone - 2	W	Fixed	1.54	496.96	104.68
J-414	205	Zone - 1	W	Fixed	1.54	334.51	56.03
<u>J-415</u>	205	Zone - 1	W	Fixed	1.54	334.47	56.02
J-416	208	Zone - 1	WW	Fixed	1.54	334.38	54.68
J-417	250	Zone - 1		Fixed	1.54	334.38	36.51
	230	Zone - 1	W	Fixed	1.54	334.38	45.16
J-419	250	Zone - 1		Fixed	1.54	334.39	36.51
J-420	216	Zone - 1		Fixed	1.54	334.38	52.04
J-421	210	Zone - 1	W	Fixed	1.54	334.38	53.81
J-422	216	Zone - 1	W	Fixed	1.54	334.37	51.21
J-423	196	Zone - 1	W	Fixed	1.54	334.37	59,60
J-424	200	Zone - 1		-ixed	1.54	334.37	20.13
J-425	194	Zone 1	WW	Fixed	1.54	224.37	66 70
J-426	180	Zone - 1	WW	FIXED	1.54	334.3/	60.73
J-427	194	Zone - 1	VVVV	Fixed	1.04	334.37	50.75
J-428	196	20ne - 1		Fixed	1.54	334.37	36.51
J-429	250	Zone - 1		Fixed	1.54	334 40	36.52
<u>J-430</u>	250	Zone - 1		Fiyed	1.54	334 42	34.36
J-431	255	Zone - 1	<u>νννν</u> \λΛΛλ/	Fired	1.54	334 45	36.54
<u>J_432</u>	250			Fixed	1.54	334.71	36.65
<u> </u>	250			Fixed	1.54	334.45	36.54
J-434	250			Fixed	1.54	334.45	36.54
J-435	250			Fixed	1.54	334.45	36.54
J-436	250	Zone - 1	 \\\\\\	Fixed	1.54	334.42	34.79
<u>J-437</u>	254	Z008 - 1	WAN	Fixed	1.54	334.42	36.52
J-438	200	7000 1	WW	Fixed	1.54	334.42	32.20
J-439	200	Zone - 1		Fixed	1.54	334.38	31.75
J-440	201	Zone 1	ww	Fixed	1.54	334.42	37.39
J-441	240	Zone - 1	ww	Fixed	1.54	334.42	36.52
J-442		70ne - 1		Fixed	1.54	372.14	97.41
J-443	147	1 LUIR - I				· · · · · · · · · · · · · · · · · · ·	

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Label         Elevation (f)         Zone         Notes         Pattern         (Calculated)         Myraulic           J-444         137         Zone -1         WW         Fixed         1.54         373.27           J-446         150         Zone -1         WW         Fixed         1.54         373.27           J-446         160         Zone -1         WW         Fixed         1.54         373.262           J-447         142         Zone -1         WW         Fixed         1.54         373.35           J-446         100         Zone -1         WW         Fixed         1.54         373.35           J-450         198         Zone -1         WW         Fixed         1.54         373.25           J-452         198         Zone -1         WW         Fixed         1.54         373.55           J-453         166         Zone -1         WW         Fixed         1.54         373.55           J-454         200         Zone -1         WW         Fixed         1.54         373.55           J-455         150         Zone -1         WW         Fixed         1.54         373.45           J-461         150         Zone -1 </th <th></th> <th></th> <th></th> <th></th> <th></th> <th>Demand</th> <th>Calculated</th> <th></th>						Demand	Calculated	
Lebel         Elevation (t))         Zone 1         WW         Fixed         1.54         373.27           J-445         137         Zone 1         WW         Fixed         1.54         373.27           J-446         150         Zone 1         WW         Fixed         1.54         373.27           J-447         142         Zone 1         WW         Fixed         1.54         373.28           J-448         100         Zone 1         WW         Fixed         1.54         373.32           J-449         200         Zone 1         WW         Fixed         1.54         374.35           J-451         198         Zone 1         WW         Fixed         1.54         373.370           J-452         198         Zone 1         WW         Fixed         1.54         373.55           J-456         200         Zone 1         WW         Fixed         1.54         373.55           J-456         150         Zone 1         WW         Fixed         1.54         373.51           J-456         150         Zone 1         WW         Fixed         1.54         373.51           J-467         150         Zone 1         WW <th></th> <th></th> <th></th> <th></th> <th></th> <th>(Calculated)</th> <th><b>Hydrauli</b>c</th> <th>Pressure</th>						(Calculated)	<b>Hydrauli</b> c	Pressure
J-444         135         Zone -1         WW         Fixed         1.54         373.27           J-446         150         Zone -1         WW         Fixed         1.54         373.27           J-446         160         Zone -1         WW         Fixed         1.54         373.262           J-447         142         Zone -1         WW         Fixed         1.54         373.35           J-449         200         Zone -1         WW         Fixed         1.54         373.35           J-450         198         Zone -1         WW         Fixed         1.54         373.27           J-452         198         Zone -1         WW         Fixed         1.54         373.25           J-453         186         Zone -1         WW         Fixed         1.54         373.57           J-455         200         Zone -1         WW         Fixed         1.54         373.51           J-455         150         Zone -1         WW         Fixed         1.54         373.51           J-459         150         Zone -1         WW         Fixed         1.54         373.45           J-461         140         Zone -1         WW <th>Label</th> <th>Elevation (ft)</th> <th>Zone</th> <th>Notes</th> <th>Pattern</th> <th>(gpm)</th> <th>Grade (ft)</th> <th>(psi)</th>	Label	Elevation (ft)	Zone	Notes	Pattern	(gpm)	Grade (ft)	(psi)
J-445         137         Zone -1         WW         Fixed         1.54         372.27           J-447         142         Zone -1         WW         Fixed         1.54         372.82           J-448         100         Zone -1         WW         Fixed         1.54         373.35           J-449         200         Zone -1         WW         Fixed         1.54         373.35           J-451         196         Zone -1         WW         Fixed         1.54         373.35           J-452         196         Zone -1         WW         Fixed         1.54         373.55           J-452         196         Zone -1         WW         Fixed         1.54         373.55           J-454         200         Zone -1         WW         Fixed         1.54         373.55           J-456         150         Zone -1         WW         Fixed         1.54         373.51           J-458         150         Zone -1         WW         Fixed         1.54         373.45           J-451         150         Zone -1         WW         Fixed         1.54         373.45           J-451         150         Zone -1         WW	J-444	135	Zone - 1	ww	Fixed	1.54	373.27	103.09
J-446         150         Zone -1         WW         Fixed         1.54         372.82           J-448         140         Zone -1         WW         Fixed         1.54         373.35           J-448         140         Zone -1         WW         Fixed         1.54         373.35           J-450         186         Zone -1         WW         Fixed         1.54         373.26           J-451         196         Zone -1         WW         Fixed         1.54         373.57           J-452         186         Zone -1         WW         Fixed         1.54         373.55           J-453         186         Zone -1         WW         Fixed         1.54         373.55           J-454         150         Zone -1         WW         Fixed         1.54         373.51           J-455         150         Zone -1         WW         Fixed         1.54         373.45           J-451         150         Zone -1         WW         Fixed         1.54         373.45           J-461         400         Zone -1         WW         Fixed         1.54         373.45           J-462         175         Zone -1         WW	J-445	137	Zone - 1	WW	Fixed	1.54	373.27	102.22
j-447         142         Zone -1         WW         Fixed         1.54         373.28           j-449         200         Zone -1         WW         Fixed         1.54         373.35           j-450         198         Zone -1         WW         Fixed         1.54         374.35           j-451         196         Zone -1         WW         Fixed         1.54         373.57           j-452         198         Zone -1         WW         Fixed         1.54         373.55           j-454         200         Zone -1         WW         Fixed         1.54         373.55           j-455         150         Zone -1         WW         Fixed         1.54         373.55           j-457         ZONE 200         Zone -1         WW         Fixed         1.54         373.51           j-459         150         Zone -1         WW         Fixed         1.54         373.45           j-469         150         Zone -1         WW         Fixed         1.54         373.45           j-461         140         Zone -1         WW         Fixed         1.54         373.45           j-462         175         Zone -1         WW	J-446	150	Zone - 1	WW	Fixed	1.54	372.62	96.32
j-448         140         Zone -1         WW         Fixed         1.54         373.45           j-450         139         Zone -1         WW         Fixed         1.54         374.35           j-451         196         Zone -1         WW         Fixed         1.54         373.75           j-451         196         Zone -1         WW         Fixed         1.54         373.87           j-453         186         Zone -1         WW         Fixed         1.54         373.55           j-455         200         Zone -1         WW         Fixed         1.54         373.55           j-456         200         Zone -1         WW         Fixed         1.54         373.55           j-456         150         Zone -1         WW         Fixed         1.54         373.51           j-457         200         Zone -1         WW         Fixed         1.54         373.51           j-463         150         Zone -1         WW         Fixed         1.54         373.35           j-464         150         Zone -1         WW         Fixed         1.54         373.39           j-464         150         Zone -1         WW	J-447	142	Zone - 1	WW	Fixed	1.54	373.28	100.06
J.449         200         Zone -1         WW         Fixed         1.54         374.35           J.450         198         Zone -1         WW         Fixed         1.54         374.35           J.451         196         Zone -1         WW         Fixed         1.54         373.70           J.452         198         Zone -1         WW         Fixed         1.54         373.35           J.453         186         Zone -1         WW         Fixed         1.54         373.35           J.455         200         Zone -1         WW         Fixed         1.54         373.55           J.455         150         Zone -1         WW         Fixed         1.54         373.54           J.456         150         Zone -1         WW         Fixed         1.54         373.54           J.462         150         Zone -1         WW         Fixed         1.54         373.35           J.460         150         Zone -1         WW         Fixed         1.54         373.35           J.463         155         Zone -1         WW         Fixed         1.54         373.32           J.464         130         Zone -1         WW	J-448	140	Zone - 1	WW	Fixed	1.54	373.35	100.96
J-450         198         Zone -1         WW         Fixed         154         374.53           J-451         196         Zone -1         WW         Fixed         1.54         373.70           J-452         198         Zone -1         WW         Fixed         1.54         373.70           J-453         186         Zone -1         WW         Fixed         1.54         373.55           J-454         200         Zone -1         WW         Fixed         1.54         373.55           J-455         200         Zone -1         WW         Fixed         1.54         373.55           J-456         150         Zone -1         WW         Fixed         1.54         373.51           J-458         150         Zone -1         WW         Fixed         1.54         373.35           J-461         140         Zone -1         WW         Fixed         1.54         373.35           J-462         175         Zone -1         WW         Fixed         1.54         373.39           J-463         130         Zone -1         WW         Fixed         1.54         373.32           J-463         130         Zone -1         WW	1-449	200	Zone - 1	ww	Fixed	1.54	374.35	75.43
J-451         196         Zone -1         WW         Fixed         1.54         373.70           J-452         186         Zone -1         WW         Fixed         1.54         373.57           J-453         186         Zone -1         WW         Fixed         1.54         373.57           J-454         200         Zone -1         WW         Fixed         1.54         373.55           J-456         200         Zone -1         WW         Fixed         1.54         373.55           J-456         150         Zone -1         WW         Fixed         1.54         373.54           J-457         Zone 200         Zone -1         WW         Fixed         1.54         373.54           J-461         140         Zone -1         WW         Fixed         1.54         373.45           J-461         140         Zone -1         WW         Fixed         1.54         373.32           J-463         155         Zone -1         WW         Fixed         1.54         373.32           J-464         130         Zone -1         WW         Fixed         1.54         373.32           J-465         145         Zone -1         WW	1-450	198	Zone - 1	WW	Fixed	1.54	374 35	76.30
J.452         198         Zone - 1         WW         Fixed         1.54         373.57           J.453         186         Zone - 1         WW         Fixed         1.54         373.55           J.455         200         Zone - 1         WW         Fixed         1.54         373.85           J.455         200         Zone - 1         WW         Fixed         1.54         373.55           J.456         150         Zone - 1         WW         Fixed         1.54         373.53           J.458         150         Zone - 1         WW         Fixed         1.54         373.51           J.459         150         Zone - 1         WW         Fixed         1.54         373.35           J.460         150         Zone - 1         WW         Fixed         1.54         373.38           J.461         140         Zone - 1         WW         Fixed         1.54         373.39           J.463         130         Zone - 1         WW         Fixed         1.54         373.32           J.463         130         Zone - 1         WW         Fixed         1.54         373.32           J.464         130         Zone - 1	1-451	196	Zone - 1	WW	Fixed	1.54	373.70	76.88
J-453         126         20ne - 1         WW         Fixed         1.54         373.55           J-454         200         Zone - 1         WW         Fixed         1.54         373.55           J-455         200         Zone - 1         WW         Fixed         1.54         373.55           J-456         150         Zone - 1         WW         Fixed         1.54         373.54           J-457         200         Zone - 1         WW         Fixed         1.54         373.54           J-459         150         Zone - 1         WW         Fixed         1.54         373.15           J-460         150         Zone - 1         WW         Fixed         1.54         373.45           J-461         140         Zone - 1         WW         Fixed         1.54         373.46           J-463         155         Zone - 1         WW         Fixed         1.54         373.22           J-464         130         Zone - 1         WW         Fixed         1.54         373.22           J-466         130         Zone - 1         WW         Fixed         1.54         373.32           J-466         178         Zone - 1	1.452	108	Zone 1	WW	Fixed	1.54	373 57	75.96
J-454         200         Zone - 1         WW         Fixed         1.54         373.55           J-455         200         Zone - 1         WW         Fixed         1.54         373.53           J-455         100         Zone - 1         WW         Fixed         1.54         373.53           J-457         200         Zone - 1         WW         Fixed         1.54         373.51           J-458         150         Zone - 1         WW         Fixed         1.54         373.51           J-460         150         Zone - 1         WW         Fixed         1.54         373.45           J-461         140         Zone - 1         WW         Fixed         1.54         373.38           J-463         155         Zone - 1         WW         Fixed         1.54         373.39           J-464         130         Zone - 1         WW         Fixed         1.54         373.32           J-466         130         Zone - 1         WW         Fixed         1.54         373.32           J-470         135         Zone - 1         WW         Fixed         1.54         373.32           J-471         137         Zone - 1	1.453	186	Zone - 1	WAW	Fixed	1 54	373.58	81 16
J-455         Zone - 1         WW         Fixed         1.54         373.55           J-456         150         Zone - 1         WW         Fixed         1.54         373.55           J-457         Zone - 1         WW         Fixed         1.54         373.54           J-458         150         Zone - 1         WW         Fixed         1.54         373.51           J-460         150         Zone - 1         WW         Fixed         1.54         373.15           J-461         140         Zone - 1         WW         Fixed         1.54         373.46           J-462         155         Zone - 1         WW         Fixed         1.54         373.46           J-463         155         Zone - 1         WW         Fixed         1.54         373.22           J-464         130         Zone - 1         WW         Fixed         1.54         373.22           J-466         130         Zone - 1         WW         Fixed         1.54         373.39           J-467         132         Zone - 1         WW         Fixed         1.54         373.39           J-470         155         Zone - 1         WW         Fixed	1-454	200	Zone - 1	www.	Fixed	1.54	373.55	75.09
3-436         150         Zone -1         WW         Fixed         1.54         373.53           3-457         200         Zone -1         WW         Fixed         1.54         373.53           3-458         150         Zone -1         WW         Fixed         1.54         373.51           3-450         150         Zone -1         WW         Fixed         1.54         373.51           3-461         140         Zone -1         WW         Fixed         1.54         373.45           3-461         140         Zone -1         WW         Fixed         1.54         373.38           3-463         155         Zone -1         WW         Fixed         1.54         373.39           3-464         130         Zone -1         WW         Fixed         1.54         373.22           3-465         145         Zone -1         WW         Fixed         1.54         373.46           3-469         185         Zone -1         WW         Fixed         1.54         373.46           3-470         155         Zone -1         WW         Fixed         1.54         373.32           3-471         132         Zone -1         WW	L455	200	Zone - 1	VAA/	Fixed	1.54	373 55	75.09
J-457         200         Zone -1         WW         Fixed         1.54         373.54           J-458         150         Zone -1         WW         Fixed         1.54         373.51           J-459         150         Zone -1         WW         Fixed         1.54         373.51           J-460         150         Zone -1         WW         Fixed         1.54         373.45           J-461         140         Zone -1         WW         Fixed         1.54         373.38           J-463         155         Zone -1         WW         Fixed         1.54         373.39           J-463         130         Zone -1         WW         Fixed         1.54         373.32           J-465         145         Zone -1         WW         Fixed         1.54         373.46           J-466         130         Zone -1         WW         Fixed         1.54         373.32           J-467         132         Zone -1         WW         Fixed         1.54         373.32           J-470         155         Zone -1         WW         Fixed         1.54         373.32           J-475         200         Zone -1         WW	1456	150	Zone - 1	1000/	Eived	1.54	373.53	96.71
J-458         150         Zone -1         WW         Fixed         1.54         373.51           J-459         150         Zone -1         WW         Fixed         1.54         373.51           J-460         150         Zone -1         WW         Fixed         1.54         373.15           J-461         140         Zone -1         WW         Fixed         1.54         373.38           J-462         175         Zone -1         WW         Fixed         1.54         373.46           J-463         155         Zone -1         WW         Fixed         1.54         373.22           J-465         145         Zone -1         WW         Fixed         1.54         373.22           J-466         130         Zone -1         WW         Fixed         1.54         373.32           J-468         178         Zone -1         WW         Fixed         1.54         373.39           J-470         155         Zone -1         WW         Fixed         1.54         373.32           J-471         137         Zone -1         WW         Fixed         1.54         373.32           J-473         137         Zone -1         WW	1 457	200	Z0110 - 1		Fixed	1.54	373 54	75.08
J459         150         Zone -1         WW         Fixed         1.54         373.35           J460         150         Zone -1         WW         Fixed         1.54         373.45           J461         140         Zone -1         WW         Fixed         1.54         373.45           J462         175         Zone -1         WW         Fixed         1.54         373.345           J463         155         Zone -1         WW         Fixed         1.54         373.32           J464         130         Zone -1         WW         Fixed         1.54         373.22           J465         145         Zone -1         WW         Fixed         1.54         373.22           J466         130         Zone -1         WW         Fixed         1.54         373.46           J466         178         Zone -1         WW         Fixed         1.54         373.32           J470         155         Zone -1         WW         Fixed         1.54         373.32           J471         137         Zone -1         WW         Fixed         1.54         373.32           J471         137         Zone -1         WW <t< td=""><td>J-437</td><td>200</td><td>Zone - 1</td><td></td><td>Fixed</td><td>1.54</td><td>373.54</td><td>96.70</td></t<>	J-437	200	Zone - 1		Fixed	1.54	373.54	96.70
J-459         150         Zone -1         WW         Fixed         1.54         373.13           J-460         150         Zone -1         WW         Fixed         1.54         373.45           J-462         175         Zone -1         WW         Fixed         1.54         373.38           J-462         175         Zone -1         WW         Fixed         1.54         373.39           J-464         130         Zone -1         WW         Fixed         1.54         373.22           J-465         145         Zone -1         WW         Fixed         1.54         373.22           J-466         130         Zone -1         WW         Fixed         1.54         371.86           J-468         178         Zone -1         WW         Fixed         1.54         373.46           J-470         155         Zone -1         WW         Fixed         1.54         373.32           J-471         137         Zone -1         WW         Fixed         1.54         373.32           J-474         200         Zone -1         WW         Fixed         1.54         373.55           J-475         200         Zone -1         WW	J-458	150	Zone - 1		Fixed	1.34	272.15	90.70
j-4c0         150         Zone -1         WW         Fixed         1.54         373.84           j-462         175         Zone -1         WW         Fixed         1.54         373.83           j-462         175         Zone -1         WW         Fixed         1.54         373.32           j-463         155         Zone -1         WW         Fixed         1.54         373.32           j-466         130         Zone -1         WW         Fixed         1.54         373.32           j-466         130         Zone -1         WW         Fixed         1.54         373.32           j-466         130         Zone -1         WW         Fixed         1.54         373.46           j-469         185         Zone -1         WW         Fixed         1.54         373.32           j-470         155         Zone -1         WW         Fixed         1.54         373.32           j-472         135         Zone -1         WW         Fixed         1.54         373.32           j-472         137         Zone -1         WW         Fixed         1.54         373.32           j-472         135         Zone -1         WW	J-409	150			Eine 4	1.34	313.10 273 AE	06.00
J-462         175         Zone - 1         WW         Fixed         1.54         373.38           J-463         155         Zone - 1         WW         Fixed         1.54         373.39           J-463         155         Zone - 1         WW         Fixed         1.54         373.32           J-466         130         Zone - 1         WW         Fixed         1.54         373.32           J-466         130         Zone - 1         WW         Fixed         1.54         373.32           J-466         130         Zone - 1         WW         Fixed         1.54         373.46           J-468         178         Zone - 1         WW         Fixed         1.54         373.32           J-469         185         Zone - 1         WW         Fixed         1.54         373.32           J-470         155         Zone - 1         WW         Fixed         1.54         373.32           J-471         137         Zone - 1         WW         Fixed         1.54         373.32           J-472         135         Zone - 1         WW         Fixed         1.54         373.32           J-474         200         Zone - 1	J-460	150	Zone - 1			1.04	373.40	100.00
J-462         17.5         Zone - 1         WWW         Fixed         1.54         373.88           J-463         155         Zone - 1         WWW         Fixed         1.54         373.39           J-465         145         Zone - 1         WWW         Fixed         1.54         373.22           J-465         130         Zone - 1         WWW         Fixed         1.54         372.41           J-467         132         Zone - 1         WWW         Fixed         1.54         377.41           J-468         178         Zone - 1         WWW         Fixed         1.54         373.39           J-470         155         Zone - 1         WWW         Fixed         1.54         373.32           J-471         137         Zone - 1         WWW         Fixed         1.54         373.32           J-472         135         Zone - 1         WWW         Fixed         1.54         373.32           J-473         137         Zone - 1         WWW         Fixed         1.54         373.32           J-474         200         Zone - 1         WWW         Fixed         1.54         373.55           J-476         198         Zone - 1<	J-461	140	Zone - 1	VVV	rixed	1.34	313.38	100.97
J-463         155         Zone - 1         WW         Fixed         1.54         373.39           J-464         130         Zone - 1         WW         Fixed         1.54         373.32           J-465         130         Zone - 1         WW         Fixed         1.54         373.32           J-466         130         Zone - 1         WW         Fixed         1.54         373.32           J-466         132         Zone - 1         WW         Fixed         1.54         371.98           J-468         178         Zone - 1         WW         Fixed         1.54         373.32           J-470         155         Zone - 1         WW         Fixed         1.54         373.32           J-471         137         Zone - 1         WW         Fixed         1.54         373.32           J-471         137         Zone - 1         WW         Fixed         1.54         373.32           J-474         200         Zone - 1         WW         Fixed         1.54         373.32           J-474         200         Zone - 1         WW         Fixed         1.54         373.55           J-476         198         Zone - 1	J-462	175	Zone - 1	WW	Fixed	1.54	373.40	85.86
J-464         130         Zone - 1         WW         Fixed         1.54         373.22           J-465         145         Zone - 1         WW         Fixed         1.54         373.32           J-467         132         Zone - 1         WW         Fixed         1.54         377.41           J-468         178         Zone - 1         WW         Fixed         1.54         373.46           J-468         178         Zone - 1         WW         Fixed         1.54         373.32           J-470         155         Zone - 1         WW         Fixed         1.54         373.32           J-471         137         Zone - 1         WW         Fixed         1.54         373.32           J-473         137         Zone - 1         WW         Fixed         1.54         373.32           J-474         200         Zone - 1         WW         Fixed         1.54         373.32           J-474         200         Zone - 1         WW         Fixed         1.54         373.55           J-476         198         Zone - 1         WW         Fixed         1.54         373.63           J-478         196         Zone - 1	J-463	155	Zone - 1	WW	Fixed	1.54	373.39	94.49
J-465       145       Zone - 1       WW       Fixed       1.54       373.32         J-466       130       Zone - 1       WW       Fixed       1.54       372.41         J-468       178       Zone - 1       WW       Fixed       1.54       373.32         J-469       185       Zone - 1       WW       Fixed       1.54       373.32         J-470       155       Zone - 1       WW       Fixed       1.54       373.32         J-471       137       Zone - 1       WW       Fixed       1.54       373.32         J-471       137       Zone - 1       WW       Fixed       1.54       373.32         J-472       135       Zone - 1       WW       Fixed       1.54       373.32         J-474       200       Zone - 1       WW       Fixed       1.54       373.55         J-475       200       Zone - 1       WW       Fixed       1.54       373.57         J-476       198       Zone - 1       WW       Fixed       1.54       373.57         J-478       198       Zone - 1       WW       Fixed       1.54       373.69         J-480       202       Zone -	J-464	130	Zone - 1	WW	Fixed	1.54	373.22	105.23
J-466         130         Zone - 1         WW         Fixed         1.54         372.41           J-467         132         Zone - 1         WW         Fixed         1.54         371.98           J-469         185         Zone - 1         WW         Fixed         1.54         373.39           J-470         155         Zone - 1         WW         Fixed         1.54         373.32           J-471         137         Zone - 1         WW         Fixed         1.54         373.32           J-472         135         Zone - 1         WW         Fixed         1.54         373.32           J-472         135         Zone - 1         WW         Fixed         1.54         373.32           J-474         200         Zone - 1         WW         Fixed         1.54         373.55           J-475         200         Zone - 1         WW         Fixed         1.54         373.55           J-476         198         Zone - 1         WW         Fixed         1.54         373.57           J-478         198         Zone - 1         WW         Fixed         1.54         373.63           J-481         203         Zone - 1	J-465	145	Zone - 1		Fixed	1.54	373.32	98.78
J-467         132         Zone - 1         WW         Fixed         1.54         371.48           J-468         178         Zone - 1         WW         Fixed         1.54         373.46           J-470         155         Zone - 1         WW         Fixed         1.54         373.32           J-470         155         Zone - 1         WW         Fixed         1.54         373.32           J-471         137         Zone - 1         WW         Fixed         1.54         373.32           J-472         135         Zone - 1         WW         Fixed         1.54         373.32           J-474         200         Zone - 1         WW         Fixed         1.54         373.35           J-474         200         Zone - 1         WW         Fixed         1.54         373.55           J-476         198         Zone - 1         WW         Fixed         1.54         373.57           J-478         198         Zone - 1         WW         Fixed         1.54         373.58           J-479         191         Zone - 1         WW         Fixed         1.54         373.63           J-479         191         Zone - 1	J-466	130	Zone - 1		Fixed	1.54	372.41	104.88
J-468         178         Zone - 1         WW         Fixed         1.54         373.46           J-470         155         Zone - 1         WW         Fixed         1.54         373.39           J-471         137         Zone - 1         WW         Fixed         1.54         373.32           J-472         135         Zone - 1         WW         Fixed         1.54         373.32           J-472         135         Zone - 1         WW         Fixed         1.54         373.32           J-474         200         Zone - 1         WW         Fixed         1.54         373.55           J-475         200         Zone - 1         WW         Fixed         1.54         373.55           J-476         198         Zone - 1         WW         Fixed         1.54         373.57           J-478         198         Zone - 1         WW         Fixed         1.54         373.57           J-479         191         Zone - 1         WW         Fixed         1.54         373.53           J-480         202         Zone - 1         WW         Fixed         1.54         373.63           J-481         203         Zone - 1	J-467	132	Zone - 1	WW	Fixed	1.54	371.98	103.83
J-469         185         Zone -1         WW         Fixed         1.54         373.39           J-470         155         Zone -1         WW         Fixed         1.54         373.32           J-471         137         Zone -1         WW         Fixed         1.54         373.32           J-472         135         Zone -1         WW         Fixed         1.54         373.32           J-473         137         Zone -1         WW         Fixed         1.54         373.32           J-474         200         Zone -1         WW         Fixed         1.54         373.55           J-476         198         Zone -1         WW         Fixed         1.54         373.57           J-476         198         Zone -1         WW         Fixed         1.54         373.57           J-478         198         Zone -1         WW         Fixed         1.54         373.63           J-479         191         Zone -1         WW         Fixed         1.54         373.63           J-480         202         Zone -1         WW         Fixed         1.54         373.63           J-481         203         Zone -1         WW	J-468	178	Zone - 1	WW	Fixed	1.54	373.46	84.56
J-470         155         Zone -1         WW         Fixed         1.54         373.32           J-471         137         Zone -1         WW         Fixed         1.54         373.32           J-472         135         Zone -1         WW         Fixed         1.54         373.32           J-473         137         Zone -1         WW         Fixed         1.54         373.32           J-474         200         Zone -1         WW         Fixed         1.54         373.55           J-475         200         Zone -1         WW         Fixed         1.54         373.57           J-478         198         Zone -1         WW         Fixed         1.54         373.57           J-478         198         Zone -1         WW         Fixed         1.54         373.57           J-478         198         Zone -1         WW         Fixed         1.54         373.58           J-480         202         Zone -1         WW         Fixed         1.54         373.63           J-481         203         Zone -1         WW         Fixed         1.54         373.63           J-482         189         Zone -1         WW	J-469	185	Zone - 1	WW	Fixed	1.54	373.39	81.51
J-471         137         Zone - 1         WW         Fixed         1.54         373.32           J-472         135         Zone - 1         WW         Fixed         1.54         373.32           J-473         137         Zone - 1         WW         Fixed         1.54         373.32           J-474         200         Zone - 1         WW         Fixed         1.54         373.32           J-475         200         Zone - 1         WW         Fixed         1.54         373.55           J-476         198         Zone - 1         WW         Fixed         1.54         373.57           J-478         198         Zone - 1         WW         Fixed         1.54         373.57           J-478         198         Zone - 1         WW         Fixed         1.54         373.63           J-479         191         Zone - 1         WW         Fixed         1.54         373.63           J-480         202         Zone - 1         WW         Fixed         1.54         373.63           J-481         203         Zone - 1         WW         Fixed         1.54         373.63           J-483         189         Zone - 1	J-470	155	Zone - 1	WW	Fixed	1.54	373.32	94.46
J-472         135         Zone - 1         WW         Fixed         1.54         373.32           J-473         137         Zone - 1         WW         Fixed         1.54         373.32           J-474         200         Zone - 1         WW         Fixed         1.54         373.55           J-476         198         Zone - 1         WW         Fixed         1.54         373.55           J-476         198         Zone - 1         WW         Fixed         1.54         373.57           J-476         198         Zone - 1         WW         Fixed         1.54         373.57           J-476         198         Zone - 1         WW         Fixed         1.54         373.57           J-479         191         Zone - 1         WW         Fixed         1.54         373.63           J-480         202         Zone - 1         WW         Fixed         1.54         373.63           J-481         203         Zone - 1         WW         Fixed         1.54         373.63           J-482         189         Zone - 1         WW         Fixed         1.54         373.63           J-483         189         Zone - 1	J-471	137	Zone - 1	WW	Fixed	1.54	373.32	102.25
J-473         137         Zone - 1         WW         Fixed         1.54         373.32           J-474         200         Zone - 1         WW         Fixed         1.54         373.55           J-475         200         Zone - 1         WW         Fixed         1.54         373.55           J-476         198         Zone - 1         WW         Fixed         1.54         373.57           J-477         198         Zone - 1         WW         Fixed         1.54         373.57           J-478         198         Zone - 1         WW         Fixed         1.54         373.63           J-479         191         Zone - 1         WW         Fixed         1.54         373.63           J-481         203         Zone - 1         WW         Fixed         1.54         373.63           J-482         189         Zone - 1         WW         Fixed         1.54         373.63           J-483         189         Zone - 1         WW         Fixed         1.54         373.63           J-484         195         Zone - 1         WW         Fixed         1.54         373.63           J-484         195         Zone - 1	J-472	135	Zone - 1	WW	Fixed	1.54	373.32	103.11
J-474         200         Zone - 1         WW         Fixed         1.54         373.55           J-475         200         Zone - 1         WW         Fixed         1.54         373.55           J-476         198         Zone - 1         WW         Fixed         1.54         373.57           J-477         198         Zone - 1         WW         Fixed         1.54         373.57           J-478         198         Zone - 1         WW         Fixed         1.54         373.57           J-479         191         Zone - 1         WW         Fixed         1.54         373.63           J-480         202         Zone - 1         WW         Fixed         1.54         373.63           J-481         203         Zone - 1         WW         Fixed         1.54         373.63           J-482         189         Zone - 1         WW         Fixed         1.54         373.63           J-483         189         Zone - 1         WW         Fixed         1.54         373.63           J-484         195         Zone - 1         WW         Fixed         1.54         373.63           J-486         215         Zone - 1	J-473	137	Zone - 1	ww	Fixed	1.54	373.32	102.25
J-475         200         Zone - 1         WW         Fixed         1.54         373.55           J-476         198         Zone - 1         WW         Fixed         1.54         373.57           J-477         198         Zone - 1         WW         Fixed         1.54         373.57           J-478         198         Zone - 1         WW         Fixed         1.54         373.57           J-479         191         Zone - 1         WW         Fixed         1.54         373.63           J-480         202         Zone - 1         WW         Fixed         1.54         373.63           J-481         203         Zone - 1         WW         Fixed         1.54         373.63           J-482         189         Zone - 1         WW         Fixed         1.54         373.63           J-483         189         Zone - 1         WW         Fixed         1.54         373.63           J-484         195         Zone - 1         WW         Fixed         1.54         373.63           J-486         215         Zone - 1         WW         Fixed         1.54         373.63           J-486         210         Zone - 1	J-474	200	Zone - 1	WW	Fixed	1.54	373.55	75.09
J-476         198         Zone - 1         WW         Fixed         1.54         372.44           J-477         198         Zone - 1         WW         Fixed         1.54         373.57           J-478         198         Zone - 1         WW         Fixed         1.54         373.57           J-479         191         Zone - 1         WW         Fixed         1.54         373.63           J-480         202         Zone - 1         WW         Fixed         1.54         373.63           J-481         203         Zone - 1         WW         Fixed         1.54         373.63           J-482         189         Zone - 1         WW         Fixed         1.54         373.63           J-483         189         Zone - 1         WW         Fixed         1.54         373.63           J-484         195         Zone - 1         WW         Fixed         1.54         373.63           J-485         212         Zone - 1         WW         Fixed         1.54         373.63           J-486         215         Zone - 1         WW         Fixed         1.54         373.63           J-487         210         Zone - 1	J-475	200	Zone - 1	ww	Fixed	1.54	373.55	75.09
J-477         198         Zone - 1         WW         Fixed         1.54         373.57           J-478         198         Zone - 1         WW         Fixed         1.54         373.57           J-479         191         Zone - 1         WW         Fixed         1.54         373.58           J-480         202         Zone - 1         WW         Fixed         1.54         373.63           J-481         203         Zone - 1         WW         Fixed         1.54         373.63           J-482         189         Zone - 1         WW         Fixed         1.54         373.63           J-483         189         Zone - 1         WW         Fixed         1.54         373.63           J-484         195         Zone - 1         WW         Fixed         1.54         373.63           J-486         212         Zone - 1         WW         Fixed         1.54         373.63           J-485         212         Zone - 1         WW         Fixed         1.54         373.63           J-486         215         Zone - 1         WW         Fixed         1.54         373.63           J-489         172         Zone - 1	J-476	198	Zone - 1	ww	Fixed	1.54	372.44	75.47
J-478         198         Zone - 1         WW         Fixed         1.54         373.57           J-479         191         Zone - 1         WW         Fixed         1.54         373.58           J-480         202         Zone - 1         WW         Fixed         1.54         373.63           J-481         203         Zone - 1         WW         Fixed         1.54         373.63           J-482         189         Zone - 1         WW         Fixed         1.54         373.63           J-482         189         Zone - 1         WW         Fixed         1.54         373.63           J-484         195         Zone - 1         WW         Fixed         1.54         373.63           J-485         212         Zone - 1         WW         Fixed         1.54         373.63           J-486         215         Zone - 1         WW         Fixed         1.54         373.63           J-487         210         Zone - 1         WW         Fixed         1.54         373.63           J-488         166         Zone - 1         WW         Fixed         1.54         373.70           J-489         172         Zone - 1	J-477	198	Zone - 1	ww	Fixed	1.54	373.57	75.96
J-479         191         Zone -1         WW         Fixed         1.54         373.58           J-480         202         Zone -1         WW         Fixed         1.54         373.63           J-481         203         Zone -1         WW         Fixed         1.54         373.63           J-481         203         Zone -1         WW         Fixed         1.54         373.63           J-482         189         Zone -1         WW         Fixed         1.54         373.63           J-483         189         Zone -1         WW         Fixed         1.54         373.63           J-484         195         Zone -1         WW         Fixed         1.54         373.63           J-485         212         Zone -1         WW         Fixed         1.54         373.63           J-485         212         Zone -1         WW         Fixed         1.54         373.63           J-487         210         Zone -1         WW         Fixed         1.54         373.63           J-488         166         Zone -1         WW         Fixed         1.54         373.70           J-490         177         Zone -1         WW	J-478	198	Zone - 1	WW	Fixed	1.54	373.57	75.96
J-480         202         Zone - 1         WW         Fixed         1.54         373.63           J-481         203         Zone - 1         WW         Fixed         1.54         373.63           J-482         189         Zone - 1         WW         Fixed         1.54         373.63           J-483         189         Zone - 1         WW         Fixed         1.54         373.63           J-483         195         Zone - 1         WW         Fixed         1.54         373.63           J-484         195         Zone - 1         WW         Fixed         1.54         373.63           J-485         212         Zone - 1         WW         Fixed         1.54         373.63           J-486         215         Zone - 1         WW         Fixed         1.54         373.63           J-487         210         Zone - 1         WW         Fixed         1.54         373.63           J-488         166         Zone - 1         WW         Fixed         1.54         373.70           J-489         172         Zone - 1         WW         Fixed         1.54         373.80           J-490         177         Zone - 1	.1-479	191	Zone - 1	ww	Fixed	1.54	373.58	78.99
J-481         203         Zone - 1         WW         Fixed         1.54         373.63           J-482         189         Zone - 1         WW         Fixed         1.54         373.63           J-483         189         Zone - 1         WW         Fixed         1.54         373.63           J-483         189         Zone - 1         WW         Fixed         1.54         373.63           J-484         195         Zone - 1         WW         Fixed         1.54         373.63           J-485         212         Zone - 1         WW         Fixed         1.54         373.63           J-486         215         Zone - 1         WW         Fixed         1.54         373.63           J-487         210         Zone - 1         WW         Fixed         1.54         373.63           J-488         166         Zone - 1         WW         Fixed         1.54         373.63           J-489         172         Zone - 1         WW         Fixed         1.54         373.70           J-491         220         Zone - 1         WW         Fixed         1.54         373.92           J-492         160         Zone - 1	1-480	202	Zone - 1	ww	Fixed	1.54	373.63	74.26
J-482         189         Zone - 1         WW         Fixed         1.54         373.59           J-483         189         Zone - 1         WW         Fixed         1.54         373.63           J-484         195         Zone - 1         WW         Fixed         1.54         373.63           J-485         212         Zone - 1         WW         Fixed         1.54         373.63           J-485         212         Zone - 1         WW         Fixed         1.54         373.63           J-486         215         Zone - 1         WW         Fixed         1.54         373.63           J-486         215         Zone - 1         WW         Fixed         1.54         373.63           J-487         210         Zone - 1         WW         Fixed         1.54         373.63           J-488         166         Zone - 1         WW         Fixed         1.54         373.70           J-490         177         Zone - 1         WW         Fixed         1.54         373.80           J-492         160         Zone - 1         WW         Fixed         1.54         373.91           J-492         160         Zone - 1	1-481	203	Zone - 1	ww	Fixed	1.54	373.63	73.82
J-482         163         2016 - 1         WW         Fixed         1.54         373.63           J-483         195         Zone - 1         WW         Fixed         1.54         373.63           J-485         212         Zone - 1         WW         Fixed         1.54         373.63           J-485         212         Zone - 1         WW         Fixed         1.54         373.63           J-486         215         Zone - 1         WW         Fixed         1.54         373.63           J-487         210         Zone - 1         WW         Fixed         1.54         373.63           J-488         166         Zone - 1         WW         Fixed         1.54         373.63           J-489         172         Zone - 1         WW         Fixed         1.54         373.70           J-490         177         Zone - 1         WW         Fixed         1.54         373.80           J-492         160         Zone - 1         WW         Fixed         1.54         373.90           J-493         190         Zone - 1         WW         Fixed         1.54         373.91           J-493         190         Zone - 1	1_492	190	Zone - 1	ww	Fixed	1.54	373.59	79.86
J-484         195         Zone - 1         WW         Fixed         1.54         373.63           J-485         212         Zone - 1         WW         Fixed         1.54         373.63           J-485         212         Zone - 1         WW         Fixed         1.54         373.63           J-486         215         Zone - 1         WW         Fixed         1.54         373.63           J-486         215         Zone - 1         WW         Fixed         1.54         373.63           J-487         210         Zone - 1         WW         Fixed         1.54         373.63           J-488         166         Zone - 1         WW         Fixed         1.54         373.63           J-489         172         Zone - 1         WW         Fixed         1.54         373.80           J-490         177         Zone - 1         WW         Fixed         1.54         373.80           J-491         220         Zone - 1         WW         Fixed         1.54         373.80           J-492         160         Zone - 1         WW         Fixed         1.54         373.90           J-493         190         Zone - 1	1_483	190	Zone 1	WW	Fixed	1.54	373.63	79.88
J-404         155         Zone - 1         WW         Fixed         1.04         313.05           J-485         212         Zone - 1         WW         Fixed         1.54         373.63           J-486         215         Zone - 1         WW         Fixed         1.54         373.63           J-487         210         Zone - 1         WW         Fixed         1.54         373.63           J-488         166         Zone - 1         WW         Fixed         1.54         373.63           J-489         172         Zone - 1         WW         Fixed         1.54         373.63           J-489         172         Zone - 1         WW         Fixed         1.54         373.70           J-490         177         Zone - 1         WW         Fixed         1.54         373.80           J-492         160         Zone - 1         WW         Fixed         1.54         373.90           J-492         160         Zone - 1         WW         Fixed         1.54         373.91           J-493         190         Zone - 1         WW         Fixed         1.54         374.04           J-494         169         Zone - 1	J-404	109			Fived	1.64	373 63	77.29
J-465         Z12         Z010 - 1         WW         Fixed         1.54         373.63           J-486         215         Zone - 1         WW         Fixed         1.54         373.63           J-487         210         Zone - 1         WW         Fixed         1.54         374.63           J-488         166         Zone - 1         WW         Fixed         1.54         373.63           J-488         166         Zone - 1         WW         Fixed         1.54         373.63           J-489         172         Zone - 1         WW         Fixed         1.54         373.63           J-490         177         Zone - 1         WW         Fixed         1.54         373.80           J-491         220         Zone - 1         WW         Fixed         1.54         373.80           J-492         160         Zone - 1         WW         Fixed         1.54         373.91           J-493         190         Zone - 1         WW         Fixed         1.54         373.91           J-494         169         Zone - 1         WW         Fixed         1.54         374.04           J-495         210         Zone - 1	J-404	010	Z0118 - 1		Fived	1 54	373.63	69.93
J-400         215         2010 - 1         VVV         Fixed         1.54         373.03           J-487         210         Zone - 1         WW         Fixed         1.54         374.63           J-488         166         Zone - 1         WW         Fixed         1.54         373.63           J-489         172         Zone - 1         WW         Fixed         1.54         373.63           J-490         177         Zone - 1         WW         Fixed         1.54         373.80           J-491         220         Zone - 1         WW         Fixed         1.54         373.80           J-492         160         Zone - 1         WW         Fixed         1.54         373.90           J-493         190         Zone - 1         WW         Fixed         1.54         373.91           J-493         190         Zone - 1         WW         Fixed         1.54         373.91           J-494         169         Zone - 1         WW         Fixed         1.54         374.04           J-496         205         Zone - 1         WW         Fixed         1.54         374.14           J-497         220         Zone - 1	J-400	212			Eivad	1.54	372.62	68.63
J-467         Z10         Z010 - 1         VVV         Fixed         1.34         374.63           J-488         166         Zone - 1         WW         Fixed         1.54         373.59           J-489         172         Zone - 1         WW         Fixed         1.54         373.63           J-490         177         Zone - 1         WW         Fixed         1.54         373.63           J-490         177         Zone - 1         WW         Fixed         1.54         373.70           J-491         220         Zone - 1         WW         Fixed         1.54         373.80           J-492         160         Zone - 1         WW         Fixed         1.54         373.92           J-493         190         Zone - 1         WW         Fixed         1.54         373.92           J-494         169         Zone - 1         WW         Fixed         1.54         374.04           J-495         210         Zone - 1         WW         Fixed         1.54         374.14           J-496         205         Zone - 1         WW         Fixed         1.54         374.14           J-497         220         Zone - 1	J-480	215	Zone - 1		Eivad	1.04	374 63	71 23
J-400         100         Zone - 1         VVV         Fixed         1.34         373.39           J-489         172         Zone - 1         WW         Fixed         1.54         373.63           J-490         177         Zone - 1         WW         Fixed         1.54         373.63           J-490         177         Zone - 1         WW         Fixed         1.54         373.70           J-491         220         Zone - 1         WW         Fixed         1.54         373.80           J-492         160         Zone - 1         WW         Fixed         1.54         373.80           J-493         190         Zone - 1         WW         Fixed         1.54         373.91           J-494         169         Zone - 1         WW         Fixed         1.54         373.91           J-495         210         Zone - 1         WW         Fixed         1.54         374.04           J-496         205         Zone - 1         WW         Fixed         1.54         374.14           J-497         220         Zone - 1         WW         Fixed         1.54         374.14           J-498         210         Zone - 1	J-46/	210	Zone - 1		Fixed	40.1 ka t	372.50	80.81
J-469         172         Zone - 1         WW         Fixed         1.54         373.03           J-490         177         Zone - 1         WW         Fixed         1.54         373.70           J-491         220         Zone - 1         WW         Fixed         1.54         373.80           J-492         160         Zone - 1         WW         Fixed         1.54         373.80           J-492         160         Zone - 1         WW         Fixed         1.54         373.80           J-493         190         Zone - 1         WW         Fixed         1.54         373.92           J-494         169         Zone - 1         WW         Fixed         1.54         373.91           J-495         210         Zone - 1         WW         Fixed         1.54         374.04           J-496         205         Zone - 1         WW         Fixed         1.54         374.14           J-497         220         Zone - 1         WW         Fixed         1.54         374.14           J-498         210         Zone - 1         WW         Fixed         1.54         374.13           J-499         212         Zone - 1	J-488	166	Zone - 1		Eivad	1.54	372 62	87.24
J-490         1//         Zone - 1         VVV         Fixed         1.34         373.70           J-491         220         Zone - 1         WW         Fixed         1.54         373.80           J-492         160         Zone - 1         WW         Fixed         1.54         373.80           J-492         160         Zone - 1         WW         Fixed         1.54         373.80           J-493         190         Zone - 1         WW         Fixed         1.54         373.92           J-494         169         Zone - 1         WW         Fixed         1.54         373.91           J-495         210         Zone - 1         WW         Fixed         1.54         374.04           J-496         205         Zone - 1         WW         Fixed         1.54         374.14           J-496         205         Zone - 1         WW         Fixed         1.54         374.14           J-497         220         Zone - 1         WW         Fixed         1.54         374.14           J-498         210         Zone - 1         WW         Fixed         1.54         374.45           J-500         211         Zone - 1	J-489	1/2			Fixed	1.54	373.03	85.10
J-491         220         20ne - 1         WW         Fixed         1.34         373.80           J-492         160         Zone - 1         WW         Fixed         1.54         373.80           J-493         190         Zone - 1         WW         Fixed         1.54         373.80           J-493         190         Zone - 1         WW         Fixed         1.54         373.92           J-494         169         Zone - 1         WW         Fixed         1.54         373.91           J-495         210         Zone - 1         WW         Fixed         1.54         374.04           J-496         205         Zone - 1         WW         Fixed         1.54         374.04           J-496         205         Zone - 1         WW         Fixed         1.54         374.14           J-497         220         Zone - 1         WW         Fixed         1.54         374.14           J-498         210         Zone - 1         WW         Fixed         1.54         374.45           J-499         212         Zone - 1         WW         Fixed         1.54         374.26           J-500         211         Zone - 1	J-490	1//	Zone - 1		Fixed	1.04	272 00	N3 33
J-492         160         Zone - 1         WW         Fixed         1.34         373.60           J-493         190         Zone - 1         WW         Fixed         1.54         373.92           J-494         169         Zone - 1         WW         Fixed         1.54         373.92           J-494         169         Zone - 1         WW         Fixed         1.54         373.91           J-495         210         Zone - 1         WW         Fixed         1.54         374.04           J-496         205         Zone - 1         WW         Fixed         1.54         374.14           J-497         220         Zone - 1         WW         Fixed         1.54         374.14           J-498         210         Zone - 1         WW         Fixed         1.54         374.14           J-498         210         Zone - 1         WW         Fixed         1.54         374.13           J-499         212         Zone - 1         WW         Fixed         1.54         374.45           J-500         211         Zone - 1         WW         Fixed         1.54         374.26           J-501         215         Zone - 1	J-491	220	20ne - 1		Eivad	1.04	272.00	02.50
J-493         190         Zone - 1         WW         Fixed         1.54         373.92           J-494         169         Zone - 1         WW         Fixed         1.54         373.91           J-495         210         Zone - 1         WW         Fixed         1.54         374.04           J-496         205         Zone - 1         WW         Fixed         1.54         374.04           J-496         205         Zone - 1         WW         Fixed         1.54         374.14           J-497         220         Zone - 1         WW         Fixed         1.54         374.14           J-498         210         Zone - 1         WW         Fixed         1.54         374.13           J-498         210         Zone - 1         WW         Fixed         1.54         374.13           J-499         212         Zone - 1         WW         Fixed         1.54         374.45           J-500         211         Zone - 1         WW         Fixed         1.54         374.26           J-501         215         Zone - 1         WW         Fixed         1.54         373.76           J-502         202         Zone - 1	J-492	160	Zone - 1	VVVV	Fixed	1.54	373.00	70.67
J-494         169         Zone - 1         WW         Fixed         1.54         373.91           J-495         210         Zone - 1         WW         Fixed         1.54         374.04           J-496         205         Zone - 1         WW         Fixed         1.54         374.04           J-496         205         Zone - 1         WW         Fixed         1.54         374.14           J-497         220         Zone - 1         WW         Fixed         1.54         374.14           J-498         210         Zone - 1         WW         Fixed         1.54         374.13           J-498         210         Zone - 1         WW         Fixed         1.54         374.45           J-499         212         Zone - 1         WW         Fixed         1.54         374.45           J-500         211         Zone - 1         WW         Fixed         1.54         374.26           J-501         215         Zone - 1         WW         Fixed         1.54         373.76           J-502         202         Zone - 1         WW         Fixed         1.54         373.76	J-493	190	Zone - 1	VVV	Fixed	1.04	3/3.92	79.07
J-495         210         Zone - 1         WW         Fixed         1.54         3/4.04           J-496         205         Zone - 1         WW         Fixed         1.54         374.14           J-497         220         Zone - 1         WW         Fixed         1.54         374.14           J-497         220         Zone - 1         WW         Fixed         1.54         374.14           J-498         210         Zone - 1         WW         Fixed         1.54         374.13           J-498         210         Zone - 1         WW         Fixed         1.54         374.45           J-500         211         Zone - 1         WW         Fixed         1.54         374.26           J-501         215         Zone - 1         WW         Fixed         1.54         374.26           J-502         202         Zone - 1         WW         Fixed         1.54         373.76	J-494	169	Zone - 1	WW	FIXED	1.54	3/3.91	20.00
J-496         205         Zone - 1         WW         Fixed         1.54         3/4.14           J-497         220         Zone - 1         WW         Fixed         1.54         374.14           J-497         220         Zone - 1         WW         Fixed         1.54         374.14           J-498         210         Zone - 1         WW         Fixed         1.54         374.13           J-499         212         Zone - 1         WW         Fixed         1.54         374.45           J-500         211         Zone - 1         WW         Fixed         1.54         374.26           J-501         215         Zone - 1         WW         Fixed         1.54         374.26           J-502         202         Zone - 1         WW         Fixed         1.54         373.76	J-495	210	Zone - 1	VVW	FIXED	1.54	374.04	72 40
J-497         220         Zone - 1         WW         Fixed         1.54         374.14           J-498         210         Zone - 1         WW         Fixed         1.54         374.13           J-498         210         Zone - 1         WW         Fixed         1.54         374.13           J-499         212         Zone - 1         WW         Fixed         1.54         374.45           J-500         211         Zone - 1         WW         Fixed         1.54         374.26           J-501         215         Zone - 1         WW         Fixed         1.54         374.26           J-502         202         Zone - 1         WW         Fixed         1.54         373.76	J-496	205	Zone - 1	WW	FIXED	1.54	3/4.14	13.10
J-498         210         Zone - 1         WW         Fixed         1.54         3/4.13           J-499         212         Zone - 1         WW         Fixed         1.54         374.45           J-500         211         Zone - 1         WW         Fixed         1.54         374.45           J-500         211         Zone - 1         WW         Fixed         1.54         374.26           J-501         215         Zone - 1         WW         Fixed         1.54         374.26           J-502         202         Zone - 1         WW         Fixed         1.54         373.76	J-497	220	Zone - 1	WW	Fixed	1.54	3/4.14	71.04
J-499         212         Zone - 1         WW         Fixed         1.54         374.45           J-500         211         Zone - 1         WW         Fixed         1.54         374.26           J-501         215         Zone - 1         WW         Fixed         1.54         374.26           J-501         215         Zone - 1         WW         Fixed         1.54         374.26           J-502         202         Zone - 1         WW         Fixed         1.54         373.76	J-498	210	Zone - 1		Fixed	1.54	3/4.13	71.01
J-500         211         Zone - 1         WW         Fixed         1.54         374.26           J-501         215         Zone - 1         WW         Fixed         1.54         374.26           J-502         202         Zone - 1         WW         Fixed         1.54         373.76	J-499	212	Zone - 1	WW	Fixed	1.54	3/4.45	70.28
J-501         215         Zone - 1         WW         Fixed         1.54         374.26           J-502         202         Zone - 1         WW         Fixed         1.54         373.76	J-500	211	Zone - 1	WW	Fixed	1.54	374.26	/0.63
J-502 202 Zone - 1 WW Fixed 1.54 373.76	J-501	215	Zone - 1	WW	Fixed	1.54	374.26	68.90
14444 F4 070 70	J-502	202	Zone - 1	WW	Fixed	1.54	373.76	/4.31
J-503 194 Zone - 1 WWW Fixed 1.54 373.79	J-503	194	Zone - 1	ww	Fixed	1.54	373.79	77.79
J-504 169 Zone - 1 WW Fixed 1.54 373.70	J-504	169	Zone - 1	WW	Fixed	1.54	373.70	88.57
J-505 169 Zone - 1 WW Fixed 1.54 373.68	J-505	169	Zone - 1		Fixed	1.54	373.68	88.56

					Demand	Calculated	
					(Calculated)	Hydraulic	Pressure
Label	Elevation (ft)	Zone	Notes	Pattern	(gpm)	Grade (ft)	(psi)
J-506	179	Zone - 1	WW	Fixed	1.54	373.71	84.24
J-507	175	Zone - 1	WW	Fixed	1.54	373.69	85.96
J-508	179	Zone - 1	WW	Fixed	1.54	373.68	84.23
J-509	195	Zone - 1	WW	Fixed	1.54	373.76	77.34
J-510	195	Zone - 1	WW	Fixed	1.54	373.75	77.34
J-511	166	Zone - 1	WW .	Fixed	1.54	373.64	89.84
J-512	166	Zone - 1	ww	Fixed	1.54	373.64	89.84
J-513	163	Zone - 1	ww	Fixed	1.54	373.65	91.14
J-514	160	Zone - 1	WW	Fixed	1.54	373.65	92.44
J-515	166	Zone - 1	WW	Fixed	1.54	373.66	89.84
J-516	169	Zone - 1	WW	Fixed	1.54	373.67	88.55
1-517	179	Zone - 1	ww	Fixed	1.54	373.67	84.23
1-518	170	Zone - 1	WW	Fixed	1.54	373.66	88.11
1-510	171	Zone - 1	ww	Fixed	1.54	373.66	87.68
1620	166	Zone - 1	1000V	Fired	1.54	373.66	89.84
J-520	100	Zone - 1	1400/	Fixed	1.54	373.65	92.00
J-021	101			Fixed	1.54	373 65	91.57
J-522	102		<u> </u>	Fixed	1.54	372 65	01.57
3-523	162	20ne - 1		Fixed	1.04	367.00	00.07
J-524	139	Zone 1	VVVV	FIXED	1.04	301.30	07.40
J-525	140	Zone - 1	VVV	Fixed	1.54	303.34	97.49
J-526	135	Zone - 1	ww.	Fixed	1.54	303.30	90.00
J-527	135	Zone - 1		Fixed	1.54	362.13	98.27
J-528	130	Zone - 1	WW	Fixed	1.54	350.05	95.20
J-529	121	Zone - 1	W	Fixed	1.54	350.05	99.10
J-530	165	Zone - 1	W	Fixed	1.54	367.31	87.53
J-531	165	Zone - 1	W	Fixed	1.54	367.36	87.55
J-532	172	Zone - 1	WW	Fixed	1.54	367.55	84.61
J-533	172	Zone - 1	WW	Fixed	1.54	368.37	84.96
J-534	171	Zone - 1	Ŵ	Fixed	1.54	368.85	85.60
J-535	161	Zone - 1	WW	Fixed	1.54	372.50	91.51
J-536	135	Zone - 1	ww	Fixed	1.54	370.28	101.80
J-537	130	Zone - 1	WW	Fixed	1.54	370.28	103.96
J-538	160	Zone - 1	WW	Fixed	1.54	368.80	90.34
J-539	145	Zone - 1	WW	Fixed	1.54	368.76	96.81
J-540	168	Zone - 1	WW	Fixed	1.54	368.78	86.87
1-541	168	Zone - 1	ww	Fixed	1.54	368.77	86.87
1-542	170	Zone - 1	ww	Fixed	1.54	368.80	86.01
1.543	170	7000-1	WW	Fixed	1.54	368.83	86.02
1544	172	7000 1	WW	Fixed	1.54	373.61	86.79
J-044	472	7000 1		Fixed	1 54	374.57	87.21
J-040	475		¥¥¥¥ (AAA/	Fived	1.54	374 75	86.42
J-546	1/5	Zone - 1	VVVV	Fixed	1.54	274.00	87.35
J-547	1/3	Zone - 1	VVVV	Fixed	1.04	274.00	87.36
J-548	173	Zone - 1	VVVV		4 5 4	274.00	01.00
J-549	170	Zone - 1	VVV	Fixed	1.04	374.01	86.11
J-550	178	Zone - 1	VVVV	Fixed	1.54	314.13	00.11
J-551	165	Zone - 1		Fixed	1.54	3/4.98	90.80
J-552	172	Zone - 1		Fixed	1.54	3/4.12	02.045
J-553	162	Zone - 1		Fixed	1.54	375.20	92.24
J-554	161	Zone - 1		Fixed	1.54	375.78	92.93
	1	7 7 nno 1	www.	Fixed	1.54	376.33	91.86
1-222	164	20116 - 1	****				
J-555	164	Zone - 1	ww	Fixed	1.54	376.48	91.93
J-555 J-557	164 164 164	Zone - 1 Zone - 1 Zone - 1	ww ww	Fixed Fixed	1.54 1.54	376.48 376.49	91.93
J-555 J-556 J-557 J-558	164 164 164 165	Zone - 1 Zone - 1 Zone - 1	ww ww ww	Fixed Fixed Fixed	1.54 1.54 1.54	376.48 376.49 376.26	91.93 91.40
J-555 J-556 J-557 J-558 J-559	164 164 164 165 165	Zone - 1 Zone - 1 Zone - 1 Zone - 1 Zone - 1	ww ww ww	Fixed Fixed Fixed Fixed	1.54 1.54 1.54 1.54	376.48 376.49 376.26 376.52	91.93 91.40 91.52
J-555 J-556 J-557 J-558 J-559 J-560	164 164 165 165 165 147	Zone - 1 Zone - 1 Zone - 1 Zone - 1 Zone - 1 Zone - 1	ww ww ww ww ww	Fixed Fixed Fixed Fixed Fixed	1.54 1.54 1.54 1.54 1.54 1.54	376.48 376.49 376.26 376.52 376.52	91.93 91.93 91.40 91.52 99.30
J-555 J-557 J-558 J-559 J-560 J-561	164 164 165 165 165 147 170	Zone - 1 Zone - 1 Zone - 1 Zone - 1 Zone - 1 Zone - 1 Zone - 1	ww ww ww ww ww	Fixed Fixed Fixed Fixed Fixed Fixed	1.54 1.54 1.54 1.54 1.54 1.54 1.54	376.48 376.49 376.26 376.52 376.52 376.52 376.52	91.93 91.93 91.40 91.52 99.30 89.35
J-555 J-556 J-557 J-558 J-559 J-560 J-561 J-562	164 164 165 165 165 147 170 150	Zone - 1 Zone - 1	ww ww ww ww ww ww	Fixed Fixed Fixed Fixed Fixed Fixed Fixed	1.54 1.54 1.54 1.54 1.54 1.54 1.54 1.54	376.48 376.49 376.26 376.52 376.52 376.52 376.52 376.46	91.93 91.93 91.40 91.52 99.30 89.35 97.98
J-555 J-556 J-557 J-558 J-559 J-560 J-561 J-562 J-563	164 164 165 165 147 170 150 202	Zone - 1 Zone - 1	ww ww ww ww ww ww ww	Fixed Fixed Fixed Fixed Fixed Fixed Fixed Fixed	1.54 1.54 1.54 1.54 1.54 1.54 1.54 1.54	376.48 376.49 376.26 376.52 376.52 376.52 376.52 376.46 376.52	91.93 91.93 91.40 91.52 99.30 89.35 97.98 75.51
J-555 J-556 J-557 J-559 J-560 J-561 J-561 J-562 J-563 J-564	164 164 165 165 165 147 170 150 202 215	Zone - 1 Zone - 1	WW WW WW WW WW WW WW WW	Fixed Fixed Fixed Fixed Fixed Fixed Fixed Fixed Fixed	1.54 1.54 1.54 1.54 1.54 1.54 1.54 1.54	376.48 376.49 376.52 376.52 376.52 376.52 376.46 376.52 376.52 376.52	91.93 91.93 91.40 91.52 99.30 89.35 97.98 75.51 69.88
J-555 J-556 J-557 J-558 J-559 J-560 J-561 J-562 J-563 J-564 J-564	164 164 165 165 165 147 170 150 202 215 215	Zone - 1 Zone - 1	WW WW WW WW WW WW WW WW WW	Fixed Fixed Fixed Fixed Fixed Fixed Fixed Fixed Fixed Fixed Fixed	1.54           1.54           1.54           1.54           1.54           1.54           1.54           1.54           1.54           1.54           1.54           1.54           1.54           1.54           1.54           1.54           1.54	376.48 376.49 376.52 376.52 376.52 376.52 376.52 376.52 376.52 376.52 376.52 376.52 376.52 374.97	91.93 91.93 91.40 91.52 99.30 89.35 97.98 75.51 69.88 69.21
J-555 J-556 J-557 J-558 J-559 J-560 J-561 J-562 J-563 J-564 J-565 J-565	164           164           165           165           147           170           150           202           215           215           203	Zone - 1 Zone - 1	WW WW WW WW WW WW WW WW WW WW WW	Fixed Fixed Fixed Fixed Fixed Fixed Fixed Fixed Fixed Fixed Fixed Fixed	1.54           1.54           1.54           1.54           1.54           1.54           1.54           1.54           1.54           1.54           1.54           1.54           1.54           1.54           1.54           1.54           1.54           1.54	376.48 376.49 376.52 376.52 376.52 376.52 376.52 376.52 376.52 376.52 376.52 376.52 376.52 376.52 376.52	91.93 91.93 91.40 91.52 99.30 89.35 97.98 75.51 69.88 69.21 75.17

					Demand	Calculated	
					(Calculated)	Hydraulic	Pressure
Label	Elevation (ft)	Zone	Notes	Pattern	(gpm)	Grade (ft)	(psi)
J-568	270	Zone - 1	WW	Fixed	1.54	377.13	46.35
J-569	270	Zone - 1	WW	Fixed	1.54	377.01	46.30
J-570	201	Zone - 1	WW	Fixed	1.54	376.52	75.94
J-571	170	Zone - 1	WW	Fixed	1.54	376.84	89.49
J-572	172	Zone - 1	WW	Fixed	1.54	377.10	88.73
J-573	172	Zone - 1	. ww	Fixed	1.54	374.65	87.68
J-574	172	Zone - 1	WW	Fixed	1.54	374.77	87.73
J-575	179	Zone - 1	WW	Fixed	1.54	377.09	85.70
J-576	186	Zone - 1	ww	Fixed	1.54	376.59	82.46
J-577	178	Zone - 1	WW	Fixed	1.54	377.09	86.14
J-578	178	Zone - 1	ww	Fixed	1.54	377.09	86.14
J-579	180	Zone - 1	WW	Fixed	1.54	377.09	85.27
J-580	191	Zone - 1	WW	Fixed	1.54	381.04	82.22
J-581	195	Zone - 1	WW	Fixed	1.54	380.91	80.44
J-582	210	Zone - 1	ww	Fixed	1.54	380.91	73.95
J-583	211	Zone - 1	WW	Fixed	1.54	380.69	73.42
J-584	195	Zone - 1	ww	Fixed	1.54	380.81	80.39
J-585	190	Zone - 1	ww	Fixed	1.54	380.76	82.53
J-586	215	Zone - 1	WW	Fixed	1.54	379.54	71.19
J-587	205	Zone - 1	WW	Fixed	1.54	379.99	75.71
J-588	178	Zone - 1	ww	Fixed	1.54	377.98	86.52
J-589	178	Zone - 1	WW	Fixed	1.54	378.53	86.76
J-590	179	Zone - 1	WW	Fixed	1.54	377.29	85.79
J-591	175	Zone - 1	ww	Fixed	1.54	376.50	87.18
J-592	172	Zone - 1	ww	Fixed	1.54	375.81	88.18
J-593	179	Zone - 1	ww	Fixed	1.54	376.35	85.38
J-594	179	Zone - 1	WW	Fixed	1.54	377.14	85.73
J-595	174	Zone - 1	WW	Fixed	1.54	374.77	86.87
J-596	178	Zone - 1	WW	Fixed	1.54	378.49	86.74
J-597	178	Zone - 1	WW	Fixed	1.54	378.31	86.66
J-598	178	Zone - 1		Fixed	1.54	378.46	86.73
J-599	205	Zone - 1	WW	Fixed	1.54	379.54	75.51
J-600	205	Zone - 1		Fixed	1.54	378.50	75.07
J-601	196	Zone - 1		Fixed	1.54	378.42	78.92
J-602	179	Zone - 1		Fixed	1.54	378.31	86.23
J-603	179	Zone - 1		Fixed	1.54	377.73	85.98
J-604	177	Zone - 1	W	Fixed	1.54	378.25	87.07
J-605	174	Zone - 1	W	Fixed	1.54	378.25	88.37
J-606	174	Zone - 1		Fixed	1.54	375.72	87.28
J-607	179	Zone - 1	W	Fixed	1.54	378.35	86.25
J-608	172	Zone - 1		Fixed	1.54	378.35	89.28
J-609	179	Zone - 1	WW	Fixed	1.54	378.40	86.27
J-610	205	Zone - 1	WW	Fixed	1.54	379.02	75.29
J-611	210	Zone - 1	WW	Fixed	1.54	382.18	74.49
J-612	239	Zone - 1		Fixed	1.54	382.17	61.94
J-613	239	Zone - 1	W	Fixed	1.54	379.75	60.89
J-614	250	Zone - 1	W	Fixed	1.54	382.17	5/.19
J-615	210	Zone - 1	W	Fixed	1.54	382.20	74.50
J-616	211	Zone - 1	WW	Fixed	1.54	382.12	74.03
J-617	215	Zone - 1		Fixed	1.54	383.00	72.69
J-618	218	Zone - 1	W	Fixed	1.54	382.48	/1.10
J-619	240	Zone - 1	<u></u>	Fixed	1.54	384.97	64.00
J-620	235	Zone - 1	W	Fixed	1.54	384.97	64.89
J-621	235	Zone - 1		Fixed	1.54	384.97	67.05
J-622	230	Zone - 1		Fixed	1.54	384.97	62.47
J-623	240	Zone - 1	W	Fixed	1.54	380.02	62 47
J-624	240	Zone - 1		Fixed	0.00	386.02	62 47
J-625	240	Zone - 1	W	Fixed	0.00	386.02	61.00
J-626	245	Zone - 1	<u>ww</u>	Fixed	1.54	386.17	01.00
J-627	245	Zone - 1		Fixed	1.54	386.23	49.07
J-628	275	Zone - 1		Fixed	1.54	386.56	40.27
J-629	275	Zone - 1	WW	Fixed	1.54	386.44	48.22

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					(Caiculated)	Hydraulic	Pressure
J ahei	Elevation (ft)	Zone	Notes	Pattern	(apm)	Grade (ft)	(psi)
1-630	245	700e - 1	WW	Fixed	1 54	386.04	61.02
J-631	245	Zone - 1	ww	Fixed	1.54	386.01	61.01
1.632	240	Zone - 1	WW	Fixed	1 54	386.01	48.89
1_633	260	Zone - 1	WW	Fixed	1.54	385.96	50.60
1624	203	Zone 1	<u></u>	Fixed	1.54	385 30	50.32
1625	209	Zone - 1	1404/	Fixed	1.54	385.28	50.31
<u>J-030</u>	209	Zone - 1		Fixed	1.54	295.29	52 47
J-030	204	Zone - I		Fixed	1.54	204.62	52.47 60.41
J-637	245	Zone - 1		Fixed	1.04	304.02	54 70
J-638	265	Zone - 1	VVVV	Fixed	1.54	304.49	57.05
J-639	248	Zone - 1	VVV	Fixed	1.54	381.94	57.95
J-640	248	Zone - 1	ww	Fixed	1.54	381.94	57.95
J-641	125	Zone - 1		Fixed	1.54	370.93	106.40
J-642	125	Zone - 1	WW	Fixed	1.54	367.64	104.98
<u>J-643</u>	145	Zone - 1	Ŵ	Fixed	1.54	357.72	92.03
J-644	124	Zone - 1	WW	Fixed	1.54	363.94	103.81
J-646	185	Zone - 1	WW	Fixed	1.54	375.74	82.53
J-647	195	Zone - 1		Fixed	1.54	375.74	78.20
J-648	228	Zone - 1	ww	Fixed	1.54	384.41	67.67
J-649	215	Zone - 1	ŴŴ	Fixed	1.54	383.63	72.96
J-650	245	Zone - 1	WW	Fixed	1.54	384.48	60.35
J-651	245	Zone - 1	WW	Fixed	1.54	386.44	61.19
J-652	264	Zone - 1	WW	Fixed	1.54	387.89	53.60
J-653	228	Zone - 1	WW	Fixed	1.54	387.86	69.16
1-654	215	Zone - 1	ww	Fixed	1.54	387.83	74.77
1-655	250	Zone - 1	WW	Fixed	1.54	387.89	59.66
1-656	215	Zone - 1	WW	Fixed	1.54	385.58	73.80
1657	260	Zone - 1	WW	Fixed	1.54	386 11	54.56
1 650	200	Zone - 1		Fixed	1.54	386 11	58.89
1.000	230	Z000 - 1	1000	Fixed	1.54	386.51	61.22
1-009	240	Z0118 - 1		Eived	1.54	387.08	63.63
J-000	240		1404/	Fixed	1.54	387.08	59.31
J-001	200	Zone - 1	VVV	Fixed	4.54	202.00	77 12
J-662	205	Zone - 1	<u>vvvv</u>	Fixed	1.04	303.20	70.61
J-663	200	Zone - 1	WWW	Fixed	1.54	303.77	(9.31
J-664	232	Zone - 1		Fixed	1.54	367.55	07.30
J-665	200	Zone - 1	WW	Fixed	1.54	387.55	81.14
J-666	180	Zone - 1		Fixed	1.54	384.12	88.32
	145	Zone - 1	WW	Fixed	1.54	356.82	91.65
J-668	145	Zone - 1	ww	Fixed	1.54	353.80	90.34
J-669	140	Zone - 1	WW	Fixed	1.54	353.73	92.47
J-670	150	Zone - 1	ww	Fixed	1.54	353.73	88.15
J-671	110	Zone - 1		Fixed	1.54	345.66	101.96
J-672	152	Zone - 1	WW	Fixed	1.54	352.54	86.76
J-673	155	Zone - 1	ww	Fixed	1.54	352.80	85.58
J-674	95	Zone - 1	WW	Fixed	1.54	349.84	110.26
J-675	80	Zone - 1	WW	Fixed	1.54	344.40	114.39
J-676	94	Zone - 1	WW	Fixed	1.54	356.25	113.46
.1-677	128	Zone - 1	WW	Fixed	1.54	352.83	97.27
1.679	135	Zone - 1	ww	Fixed	1.54	352.81	94.24
1.670		700e - 1	ww	Fixed	1.54	344.33	114.36
1.690	90	Zone - 1	WW	Fixed	1.54	341.11	112.97
000	00	7000-1	WW	Fixed	1.54	341.11	112.97
1.602	00	7000-1	ww	Fixed	1.54	340.45	112.68
J-002				Fixed	1.54	340.38	112.65
J-063	00	2018-1	1444 1448/	Fixed	1 54	340.38	112.66
J-684	80	Zone - 1	VVVV \\\\\\\	Fived	1.54	340.26	112.60
J-685	80	Zone - 1		Fivad	1.54	339.47	90.63
1-686	130	<u>2006 - 1</u>		Fived	1.54	330 27	90.54
J-687	130	Zone - 1	10/04/	Cixed	1.54	330 10	81.82
J-688	150	<u> 20ne - 1</u>		Elvad	1.04	319.92	73.04
<u>J-689</u>	170	Zone - 1		Elved	1.04	330.02	81.80
J-690	150	Zone - 1	<b>VVV</b>	Cixed	1.04	230.20	72.04
	170	Zone - 1	WW	Fixed	1,94	220.24	91.04
J-692	150	Zone - 1	WW	Fixed	1.54	338.31	1 01.91
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					Demand (Caiculated)	Calculated Hydraulic	Pressure
l ahei	Elevation (ft)	Zone	Notes	Pattern	(gpm)	Grade (ft)	(psi)
	130	Zope - 1	WW	Fixed	1.54	339.35	90.58
1-604	160	Zone - 1	ww	Fixed	1.54	339.31	77.58
1-605	160	Zone - 1	ww	Fixed	1.54	339.31	77.58
1-095	105	Zone 1		Fixed	1.54	339.31	62.44
1 607	175	Zone - 1	WW	Fixed	1.54	339.31	71.09
1 6091	203	Zone - 1		Fixed	1.54	338.76	58.74
1-090	203	Zone - 1		Fixed	1.54	339.31	62.87
1-099	200	Z000 1	\\\\\\	Fixed	1.54	338.92	60.10
J-700	200	Zone - 1	VAA/	Fixed	1.54	338.35	52.07
1700	475	Zone - 1	WW	Fixed	1.54	338.54	70,75
J-702	219	Zone - 1		Fixed	1.54	337.96	51.90
3-703	210	Zone 1	1000/	Fixed	1.54	328.47	51.25
J-704	210	Zune - 1	VAA/	Fixed	0.00	327.84	50.99
J-705	210	Zone - 1		Fived	0.00	327.55	50.86
J-706	210			Fixed	1 54	327.84	50.99
J-707	210	Zone - 1	1404/	Eivad	1.54	327.84	50.98
J-708	210	Zone - 1		Eivad	1.54	327.84	50.00
J-709	210	Zone - 1		Fixed	1.04	227 94	68.20
J-710	170	Zone - 1	VVVV	Fixed	1.54	207 04	68.20
J-711	170	Zone - 1	WW	FIX80	1.54	321.04	69.29
J-712	170	Zone - 1		Fixed	1.54	327.84	00.29
J-713	170	Zone - 1		Fixed	1.54	327.84	00.29
J-714	170	Zone - 1	WW	Fixed	1.54	327.84	68.29
J-715	170	Zone - 1	ww	Fixed	1.54	327.84	68.29
J-716	200	Zone - 1		Fixed	1.54	327.84	55.31
J-717	200	Zone - 1	WW	Fixed	1.54	327.84	55.31
J-718	180	Zone - 1		Fixed	1.54	327.84	63.96
J-719	210	Zone - 1	WW	Fixed	1.54	328.43	51.24
J-721	210	Zone - 1	ww	Fixed	1.54	328.43	51.24
J-722	235	Zone - 1	WW	Fixed	1.54	328.41	40.42
J-723	230	Zone - 1	WW	Fixed	1.54	328.34	42.55
J-724	230	Zone - 1	WW	Fixed	1.54	328.34	42.55
J-725	230	Zone - 1	WW	Fixed	1.54	328.32	42.54
.1-726	230	Zone - 1	WW	Fixed	1.54	328.32	42.54
1.727	190	Zone - 1	WW	Fixed	1.54	328.18	59.78
1.728	185	Zone - 1	WW	Fixed	1.54	328.10	61.91
1.720	185	Zone - 1	ww	Fixed	1.54	328.10	61.91
1730	185	Zone - 1	ww	Fixed	1.54	328.10	61.91
1721	195	Zone - 1	ww	Fixed	1.54	328.10	61.91
<u>J•731</u>	105	Zone - 1	WW	Fixed	1.54	328.08	61.90
J-132	100	Zono 1	WW	Fixed	1.54	338.68	58.70
J-/33	203		1404	Fixed	1 54	338.28	42.52
J-/34	240			Fired	1 54	338.53	31.81
J-735	265	20ne - 1		Fived	1.54	338.68	38.80
J-736	249	2009 - 1	<u> </u>	Fived	1.54	338.64	38.78
J-737	249	Zone - 1	1000/	Fixed	1.54	338 56	31.82
J-738	265	20ne - 1	<u> </u>	Fived	1.54	338 68	42.69
J-739	240	Zone - 1		Fixed	1 54	338.83	41.03
J-740	244	<u> 20ne - 1</u>	VVV	Eivad	• 15/	330.05	41 13
J-741	244	Zone - 1		Fixed	1.04	330.16	51 56
J-742	220	Zone - 1		Fixed	1.04	320 12	42.88
J-743	240	Zone - 1		FIXED	1.04	230.12	42.88
J-744	240	Zone - 1	WW	Fixed		220 12	55.99
J-745	210	Zone - 1		FIXEG	1.54	220.46	52 42
J-746	218	Zone - 1		Fixed	1.54	333.10	55.90
J-747	210	Zone - 1	WW	Fixed	1.54	339.10	55.00
J-748	208	Zone - 1		Fixed	1.54	338.20	<u>55.70</u>
J-749	210	Zone - 1		⊢ixed	1.54	338.20	£4 77
J-750	190	Zone - 1		Fixed	1.54	339.70	04.11
J-751	155	Zone - 1		Fixed	1.54	340.49	00.20
J-752	125	Zone - 1		Fixed	1.54	341.10	93.49
J-753	135	Zone - 1		Fixed	1.54	339.83	00.02
J-754	80	Zone - 1		Fixed	1.54	339.98	112.48
		7	4444	Fixed	1.54	341.24	100.03

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Label         Elevation (f)         Zone -1         Notes         Pattern (gpm)         Grade (f)         (pzl)           3.756         88         Zone -1         WW         Fixed         1.54         341.24         109.57           3.758         103         Zone -1         WW         Fixed         1.54         341.24         109.56           3.758         103         Zone -1         WW         Fixed         1.54         341.23         103.2           3.760         103         Zone -1         WW         Fixed         1.54         341.23         103.2           3.762         80         Zone -1         WW         Fixed         1.54         341.33         103.0           3.763         80         Zone -1         WW         Fixed         1.54         341.83         108.0           3.766         82         Zone -1         WW         Fixed         1.54         341.83         109.69           3.766         82         Zone -1         WW         Fixed         1.54         341.84         109.71           3.766         82         Zone -1         WW         Fixed         1.54         341.84         109.71           3.776 <td< th=""><th><u>ا</u></th><th></th><th></th><th></th><th></th><th></th><th>Demand</th><th>Calculated</th><th></th></td<>	<u>ا</u>						Demand	Calculated	
Label         Elevation (fb)         Zone - 1         WW         Pattern         (gpm)         Grad (fb)         (gb)           3-767         88         Zone - 1         WW         Fixed         1.54         341.24         109.57           3-758         103         Zone - 1         WW         Fixed         1.54         341.23         103.07           3-769         107         Zone - 1         WW         Fixed         1.54         341.23         103.01           3-761         80         Zone - 1         WW         Fixed         1.54         341.32         103.01           3-763         80         Zone - 1         WW         Fixed         1.54         341.33         108.69           3-766         82         Zone - 1         WW         Fixed         1.54         341.35         109.69           3-767         86         Zone - 1         WW         Fixed         1.54         341.23         100.91           3-767         86         Zone - 1         WW         Fixed         1.54         341.23         100.91           3-777         108         Zone - 1         WW         Fixed         1.54         3431.23         100.91							(Calculated)	Hydraulic	Pressure
3.766         88         Zone -1         WW         Fixed         1.54         341.24         109.57           3.758         103         Zone -1         WW         Fixed         1.54         341.23         103.3           3.760         103         Zone -1         WW         Fixed         1.54         341.23         103.4           3.760         103         Zone -1         WW         Fixed         1.54         341.23         103.4           3.763         80         Zone -1         WW         Fixed         1.54         341.35         103.0           3.766         80         Zone -1         WW         Fixed         1.54         341.53         109.70           3.766         80         Zone -1         WW         Fixed         1.54         341.53         109.70           3.766         80         Zone -1         WW         Fixed         1.54         341.53         109.70           3.766         80         Zone -1         WW         Fixed         1.54         341.57         109.70           3.776         80         Zone -1         WW         Fixed         1.54         348.97         109.71           3.777         1		Label	Elevation (ft)	Zone	Notes	Pattern	(gpm)	Grade (ft)	(psi)
J-767         88         Zone -1         WW         Fixed         1.54         341.23         103.07           J-759         107         Zone -1         WW         Fixed         1.54         341.23         103.07           J-760         103         Zone -1         WW         Fixed         1.54         341.23         103.07           J-761         80         Zone -1         WW         Fixed         1.54         341.33         113.09           J-763         80         Zone -1         WW         Fixed         1.54         341.33         113.09           J-764         88         Zone -1         WW         Fixed         1.54         341.55         106.89           J-766         82         Zone -1         WW         Fixed         1.54         341.55         107.96           J-767         88         Zone -1         WW         Fixed         1.54         341.53         109.70           J-770         108         Zone -1         WW         Fixed         1.54         341.23         100.91           J-777         108         Zone -1         WW         Fixed         1.54         346.86         52.99           J-778         <		J-756	88	Zone - 1	WW	Fixed	1.54	341.24	109.57
j.758         103         Zone -1         WW         Fixed         1.54         341.23         103.4           j.760         103         Zone -1         WW         Fixed         1.54         341.23         103.4           j.761         80         Zone -1         WW         Fixed         1.54         341.23         103.04           j.762         80         Zone -1         WW         Fixed         1.54         341.33         113.09           j.763         80         Zone -1         WW         Fixed         1.64         341.63         109.20           j.766         88         Zone -1         WW         Fixed         1.64         341.63         109.20           j.766         88         Zone -1         WW         Fixed         1.54         341.63         109.20           j.766         88         Zone -1         WW         Fixed         1.54         341.63         109.20           j.776         88         Zone -1         WW         Fixed         1.54         341.63         100.91           j.777         146         Zone -1         WW         Fixed         1.54         341.93         109.91           j.776 <td< td=""><td></td><td>J-757</td><td>88</td><td>Zone - 1</td><td>WW</td><td>Fixed</td><td>1.54</td><td>341.24</td><td>109.56</td></td<>		J-757	88	Zone - 1	WW	Fixed	1.54	341.24	109.56
J-759         107         Zone -1         WW         Fixed         1.54         341.23         103.07           J-761         80         Zone -1         WW         Fixed         1.54         341.27         113.04           J-762         80         Zone -1         WW         Fixed         1.54         341.33         113.06           J-763         80         Zone -1         WW         Fixed         1.54         341.35         109.66           J-766         88         Zone -1         WW         Fixed         1.54         341.55         109.66           J-766         88         Zone -1         WW         Fixed         1.54         341.55         109.76           J-766         88         Zone -1         WW         Fixed         1.54         341.66         109.70           J-777         108         Zone -1         WW         Fixed         1.54         341.69         100.91           J-777         108         Zone -1         WW         Fixed         1.54         341.69         100.91           J-777         108         Zone -1         WW         Fixed         1.54         341.92         100.91           J-778		J-758	103	Zone - 1	WW	Fixed	1.54	341.23	103.07
j.780         103         Zone -1         WW         Fixed         1.54         34123         103.04           j.782         80         Zone -1         WW         Fixed         1.54         341.28         113.04           j.763         80         Zone -1         WW         Fixed         1.54         341.38         113.06           j.764         88         Zone -1         WW         Fixed         1.54         341.53         109.87           j.765         88         Zone -1         WW         Fixed         1.54         341.55         107.96           j.766         88         Zone -1         WW         Fixed         1.54         341.55         107.97           j.776         88         Zone -1         WW         Fixed         1.54         341.23         100.97           j.776         88         Zone -1         WW         Fixed         1.54         340.62         346.61         103.02           j.777         122         Zone -1         WW         Fixed         1.54         340.62         346.61         103.02         39.17         55.89         .777         213         Zone -1         WW         Fixed         1.54         339.17		J-759	107	Zone - 1	WW	Fixed	1.54	341.23	101.34
4-761         800         Zone -1         WW         Fixed         1.54         341.27         113.09           J-763         800         Zone -1         WW         Fixed         1.54         341.38         113.09           J-764         88         Zone -1         WW         Fixed         1.54         341.35         109.69           J-765         88         Zone -1         WW         Fixed         1.54         341.56         109.70           J-767         88         Zone -1         WW         Fixed         1.54         341.56         109.70           J-768         88         Zone -1         WW         Fixed         1.54         341.27         108.70         108.72         109.72         108.70         108.72         109.72         108.70         108.72         109.72         108.70         108.74         341.29         100.91         107.71         145         200.21         100.77         108         Zone -1         WW         Fixed         1.54         341.81         100.91         103.02         100.77         13.22         Zone -1         WW         Fixed         1.54         338.17         55.89         1.776         210         Zone -1         WW         Fix		J-760	103	Zone - 1	WW	Fixed	1.54	341.23	103.07
j.762         80         Zone -1         WW         Fixed         1.54         341.38         113.09           j.763         80         Zone -1         WW         Fixed         1.54         341.53         109.80           j.766         68         Zone -1         WW         Fixed         1.54         341.55         109.80           j.766         68         Zone -1         WW         Fixed         1.54         341.55         109.70           j.767         68         Zone -1         WW         Fixed         1.54         341.55         109.70           j.768         68         Zone -1         WW         Fixed         1.54         341.23         100.71           j.777         108         Zone -1         WW         Fixed         1.54         340.62         94.64           j.777         108         Zone -1         WW         Fixed         1.54         340.61         103.02           j.777         210         Zone -1         WW         Fixed         1.54         349.17         55.89           j.777         213         Zone -1         WW         Fixed         1.54         339.17         51.99           j.778 <td< td=""><td></td><td>J-761</td><td>80</td><td>Zone - 1</td><td></td><td>Fixed</td><td>1.54</td><td>341.27</td><td>113.04</td></td<>		J-761	80	Zone - 1		Fixed	1.54	341.27	113.04
J-763         80         Zane - 1         WW         Fixed         1.54         341.38         113.09           J-765         68         Zane - 1         WW         Fixed         1.54         341.55         109.69           J-766         92         Zane - 1         WW         Fixed         1.54         341.55         109.70           J-767         88         Zane - 1         WW         Fixed         1.54         341.55         109.71           J-768         88         Zane - 1         WW         Fixed         1.54         341.35         109.816           J-770         106         Zane - 1         WW         Fixed         1.54         341.13         100.91           J-771         145         Zane - 1         WW         Fixed         1.54         346.11         103.02           J-777         120         Zane - 1         WW         Fixed         1.54         339.18         55.89           J-777         210         Zane - 1         WW         Fixed         1.54         339.17         65.49           J-778         210         Zane - 1         WW         Fixed         1.54         339.17         65.49           J-7781 <td></td> <td>J-762</td> <td>80</td> <td>Zone - 1</td> <td>. ww</td> <td>Fixed</td> <td>1.54</td> <td>341.38</td> <td>113.09</td>		J-762	80	Zone - 1	. ww	Fixed	1.54	341.38	113.09
J-764         88         Zone - 1         WW         Proce         1.84         341.83         109.593           J-766         69         Zone - 1         WW         Fixed         1.54         341.63         109.796           J-767         88         Zone - 1         WW         Fixed         1.54         341.68         109.71           J-768         92         Zone - 1         WW         Fixed         1.54         341.68         109.71           J-770         108         Zone - 1         WW         Fixed         1.54         340.62         84.64           J-771         108         Zone - 1         WW         Fixed         1.54         346.68         07.29           J-775         210         Zone - 1         WW         Fixed         1.54         346.68         07.29           J-776         210         Zone - 1         WW         Fixed         1.54         339.17         55.89           J-776         210         Zone - 1         WW         Fixed         1.54         339.17         61.08           J-779         198         Zone - 1         WW         Fixed         1.54         339.17         61.08           J-778		J-763	80	Zone - 1	ww	Fixed	1.54	341.38	113.09
3/765         88         Zone - 1         WW         Pixed         1.54         341.65         109.70           J-767         88         Zone - 1         WW         Fixed         1.54         341.55         107.90           J-768         88         Zone - 1         WW         Fixed         1.54         341.75         109.70           J-769         92         Zone - 1         WW         Fixed         1.54         341.31         100.91           J-770         108         Zone - 1         WW         Fixed         1.54         341.15         100.91           J-771         145         Zone - 1         WW         Fixed         1.54         340.62         84.64           J-775         210         Zone - 1         WW         Fixed         1.54         330.17         55.89           J-776         210         Zone - 1         WW         Fixed         1.54         339.17         55.89           J-778         123         Zone - 1         WW         Fixed         1.54         339.17         61.56           J-780         198         Zone - 1         WW         Fixed         1.54         340.00         91.25           J-781		J-764	88	Zone - 1		Fixed	1.54	341.53	109.69
J-766         82         Zone - 1         WW         Fixed         1.54         341.83         107.85           J-766         88         Zone - 1         WW         Fixed         1.54         341.75         109.76           J-766         92         Zone - 1         WW         Fixed         1.54         341.85         109.71           J-770         108         Zone - 1         WW         Fixed         1.54         340.62         84.44           J-771         116         Zone - 1         WW         Fixed         1.54         340.66         87.29           J-775         120         Zone - 1         WW         Fixed         1.54         346.66         97.29           J-776         210         Zone - 1         WW         Fixed         1.54         339.17         55.89           J-776         213         Zone - 1         WW         Fixed         1.54         339.17         54.59           J-776         213         Zone - 1         WW         Fixed         1.54         349.09         91.25           J-778         135         Zone - 1         WW         Fixed         1.54         349.09         91.25           J-781		J-765	88	Zone - 1		Fixed	1,54	341.50	109.70
J-767         86         Zone -1         WW         Fixed         1.54         341.75         109.76           J-769         92         Zone -1         WW         Fixed         1.54         341.76         109.76           J-770         108         Zone -1         WW         Fixed         1.54         341.23         100.91           J-771         1145         Zone -1         WW         Fixed         1.54         346.66         87.29           J-773         122         Zone -1         WW         Fixed         1.54         346.86         97.29           J-776         210         Zone -1         WW         Fixed         1.54         339.17         55.89           J-776         213         Zone -1         WW         Fixed         1.54         339.17         54.59           J-779         198         Zone -1         WW         Fixed         1.54         339.17         61.08           J-782         135         Zone -1         WW         Fixed         1.54         339.17         61.08           J-781         135         Zone -1         WW         Fixed         1.54         346.09         91.29           J-782 <t< td=""><td></td><td>J-766</td><td>92</td><td>Zone - 1</td><td></td><td>Fixed</td><td>1.54</td><td>341.55</td><td>107.50</td></t<>		J-766	92	Zone - 1		Fixed	1.54	341.55	107.50
J-768         06         Zone - 1         WW         Fixed         1.54         341,95         108,16           J-770         108         Zone - 1         WW         Fixed         1.54         341,02         108,16           J-771         108         Zone - 1         WW         Fixed         1.54         340,62         84,64           J-773         122         Zone - 1         WW         Fixed         1.54         346,62         84,64           J-775         210         Zone - 1         WW         Fixed         1.54         346,86         97,29           J-775         210         Zone - 1         WW         Fixed         1.54         339,17         55,89           J-777         213         Zone - 1         WW         Fixed         1.54         339,17         61,69           J-780         198         Zone - 1         WW         Fixed         1.54         339,17         61,08           J-781         135         Zone - 1         WW         Fixed         1.54         346,00         91,25           J-782         135         Zone - 1         WW         Fixed         1.54         346,28         91,25           J-784		J-/6/	88	Zone - 1	2000	Fixed	1.54	341.50	109.71
J-769         92         Long-1         WW         Fixed         1.54         341.23         100.91           J-771         146         Zone -1         WW         Fixed         1.54         341.23         100.91           J-772         108         Zone -1         WW         Fixed         1.54         346.66         97.29           J-775         210         Zone -1         WW         Fixed         1.54         339.17         55.89           J-776         210         Zone -1         WW         Fixed         1.54         339.17         54.59           J-778         213         Zone -1         WW         Fixed         1.54         339.17         54.59           J-778         918         Zone -1         WW         Fixed         1.54         339.17         61.08           J-780         198         Zone -1         WW         Fixed         1.54         340.00         91.29           J-781         153         Zone -1         WW         Fixed         1.54         346.00         91.29           J-782         135         Zone -1         WW         Fixed         1.54         340.03         39.29           J-781		J-768	88	Zone - 1		Fixed	1.54	341.75	109.10
J.770         105         Zone -1         WW         Fixed         1.24         340.82         94.64           J.772         108         Zone -1         WW         Fixed         1.54         346.81         103.02           J.773         122         Zone -1         WW         Fixed         1.54         346.86         97.29           J.775         210         Zone -1         WW         Fixed         1.54         339.17         55.89           J.777         213         Zone -1         WW         Fixed         1.54         339.17         54.59           J.778         213         Zone -1         WW         Fixed         1.54         339.17         54.59           J.779         198         Zone -1         WW         Fixed         1.54         339.17         61.08           J.781         135         Zone -1         WW         Fixed         1.54         346.90         91.25           J.782         135         Zone -1         WW         Fixed         1.54         345.42         83.25           J.782         155         Zone -1         WW         Fixed         1.54         340.42         83.25           J.783 <td< td=""><td>- F</td><td>J-709</td><td>92</td><td>Zone - 1</td><td>\\\\\</td><td>Fixed</td><td>1.54</td><td>341 23</td><td>100.10</td></td<>	- F	J-709	92	Zone - 1	\\\\\	Fixed	1.54	341 23	100.10
J.772         108         Zune 1         WW         Fixed         1.24         345.11         103.02           J.773         122         Zune 1         WW         Fixed         1.24         346.16         97.29           J.775         210         Zone 1         WW         Fixed         1.54         384.86         97.29           J.776         210         Zone 1         WW         Fixed         1.54         339.17         55.89           J.777         213         Zone 1         WW         Fixed         1.54         339.17         61.08           J.778         213         Zone 1         WW         Fixed         1.54         339.17         61.08           J.780         198         Zone 1         WW         Fixed         1.54         339.17         61.08           J.781         135         Zone 1         WW         Fixed         1.54         345.90         91.25           J.783         135         Zone 1         WW         Fixed         1.54         345.90         91.25           J.783         160         Zone 1         WW         Fixed         1.54         340.03         54.11           J.787         216		J-770	145	Zone - 1	1000/	Fixed	1.54	340.62	84 64
J.772         106         20me 1         WW         Fixed         1.24         346.86         97.29           J.775         210         Zone 1         WW         Fixed         1.24         339.17         55.89           J.777         213         Zone 1         WW         Fixed         1.54         339.17         55.89           J.777         213         Zone 1         WW         Fixed         1.54         339.17         54.59           J.778         213         Zone -1         WW         Fixed         1.54         339.17         61.08           J.780         198         Zone -1         WW         Fixed         1.54         339.17         61.08           J.781         135         Zone -1         WW         Fixed         1.54         346.00         91.25           J.782         135         Zone -1         WW         Fixed         1.54         346.00         91.25           J.781         153         Zone -1         WW         Fixed         1.54         340.00         54.11           J.782         249         Zone -1         WW         Fixed         1.54         340.07         54.11           J.789         265<		J-770	145	Z010 - 1	1444	Fixed	1.54	346 11	103.02
J.775         210         Zone 1         WW         Fixed         1.54         339.16         65.89           J.776         210         Zone 1         WW         Fixed         1.54         339.17         55.89           J.777         213         Zone -1         WW         Fixed         1.54         339.17         55.89           J.778         213         Zone -1         WW         Fixed         1.54         339.17         54.59           J.770         198         Zone -1         WW         Fixed         1.54         339.17         61.08           J.780         198         Zone -1         WW         Fixed         1.54         345.90         91.29           J.782         135         Zone -1         WW         Fixed         1.54         345.90         91.25           J.783         135         Zone -1         WW         Fixed         1.54         346.42         83.25           J.784         163         Zone -1         WW         Fixed         1.54         340.87         54.11           J.783         240         Zone -1         WW         Fixed         1.54         340.03         32.46           J.790         26		1.773	100	Zone - 1	WW	Fixed	1.54	346.86	97.29
J776         210         Zone - 1         WW         Fixed         1.54         339.17         56.89           J777         213         Zone - 1         WW         Fixed         1.54         339.17         54.59           J779         198         Zone - 1         WW         Fixed         1.54         339.17         61.08           J-770         198         Zone - 1         WW         Fixed         1.54         339.17         61.08           J-781         135         Zone - 1         WW         Fixed         1.54         339.17         61.08           J-781         135         Zone - 1         WW         Fixed         1.54         345.09         91.25           J-783         135         Zone - 1         WW         Fixed         1.54         345.09         91.25           J-787         215         Zone - 1         WW         Fixed         1.54         340.07         54.11           J-787         215         Zone - 1         WW         Fixed         1.54         340.05         51.94           J-780         265         Zone - 1         WW         Fixed         1.54         340.02         34.11           J-790	$\vdash$	J-775	210			Fixed	1.54	339.18	55.89
J77         213         Zone - 1         WW         Fixed         1.54         339.17         54.59           J778         213         Zone - 1         WW         Fixed         1.54         339.17         54.59           J778         198         Zone - 1         WW         Fixed         1.54         339.17         61.08           J-780         198         Zone - 1         WW         Fixed         1.54         339.17         61.08           J-781         135         Zone - 1         WW         Fixed         1.54         345.00         91.25           J-783         135         Zone - 1         WW         Fixed         1.54         345.90         91.25           J-784         153         Zone - 1         WW         Fixed         1.54         346.42         83.25           J-785         160         Zone - 1         WW         Fixed         1.54         340.03         32.46           J-786         220         Zone - 1         WW         Fixed         1.54         340.03         32.46           J-791         248         Zone - 1         WW         Fixed         1.54         340.03         32.46           J-791		1.776	210	Zone - 1		Fixed	1.54	339.17	55.89
J.776         213         Zone - 1         WW         Fixed         1.54         39.17         54.59           J.778         196         Zone - 1         WW         Fixed         1.54         339.17         61.08           J.781         135         Zone - 1         WW         Fixed         1.54         339.17         61.08           J.781         135         Zone - 1         WW         Fixed         1.54         346.00         91.29           J.782         135         Zone - 1         WW         Fixed         1.54         345.90         91.25           J.783         160         Zone - 1         WW         Fixed         1.54         342.68         79.04           J.787         215         Zone - 1         WW         Fixed         1.54         340.07         54.11           J.788         249         Zone - 1         WW         Fixed         1.54         340.03         39.42           J.790         265         Zone - 1         WW         Fixed         1.54         340.03         39.42           J.791         248         Zone - 1         WW         Fixed         1.54         340.04         47.15           J.791	-	J-777	213	Zone - 1		Fixed	1.54	339.17	54.59
J-779         198         Zone -1         WW         Fixed         1.54         339.17         61.08           J-780         198         Zone -1         WW         Fixed         1.54         339.17         61.08           J-781         135         Zone -1         WW         Fixed         1.54         346.00         91.25           J-782         135         Zone -1         WW         Fixed         1.54         345.90         91.25           J-783         133         Zone -1         WW         Fixed         1.54         345.90         91.25           J-784         153         Zone -1         WW         Fixed         1.54         346.90         91.25           J-785         160         Zone -1         WW         Fixed         1.54         340.07         54.11           J-786         220         Zone -1         WW         Fixed         1.54         340.05         51.94           J-790         265         Zone -1         WW         Fixed         1.54         340.03         39.82           J-791         246         Zone -1         WW         Fixed         1.54         340.04         36.36           J-792	⊢	J-778	213	Zone - 1	ww	Fixed	1.54	339.17	54.59
J-780         198         Zone - 1         WW         Fixed         1.54         339.17         61.08           J-781         135         Zone - 1         WW         Fixed         1.54         346.00         91.25           J-781         135         Zone - 1         WW         Fixed         1.54         345.90         91.25           J-783         135         Zone - 1         WW         Fixed         1.54         345.90         91.25           J-785         160         Zone - 1         WW         Fixed         1.54         346.42         83.25           J-787         215         Zone - 1         WW         Fixed         1.54         340.07         54.11           J-789         220         Zone - 1         WW         Fixed         1.54         340.03         32.46           J-780         265         Zone - 1         WW         Fixed         1.54         340.03         32.46           J-791         248         Zone - 1         WW         Fixed         1.54         340.03         32.46           J-792         273         Zone - 1         WW         Fixed         1.54         340.04         47.18           J-793		J-779	198	Zone - 1	WW	Fixed	1.54	339.17	61.08
J-781         135         Zone - 1         WW         Fixed         1.54         346.00         91.29           J-782         135         Zone - 1         WW         Fixed         1.54         345.90         91.25           J-784         153         Zone - 1         WW         Fixed         1.54         345.40         91.25           J-784         153         Zone - 1         WW         Fixed         1.54         342.68         79.04           J-788         249         Zone - 1         WW         Fixed         1.54         340.07         54.11           J-788         249         Zone - 1         WW         Fixed         1.54         340.05         51.94           J-780         220         Zone - 1         WW         Fixed         1.54         340.03         32.46           J-791         248         Zone - 1         WW         Fixed         1.54         340.03         39.42           J-792         273         Zone - 1         WW         Fixed         1.54         340.04         36.36           J-794         256         Zone - 1         WW         Fixed         1.54         340.04         36.36           J-797		J-780	198	Zone - 1	WW	Fixed	1.54	339.17	61.08
J-782         135         Zone -1         WW         Fixed         1.54         345.90         91.25           J-783         135         Zone -1         WW         Fixed         1.54         345.90         91.25           J-784         153         Zone -1         WW         Fixed         1.54         345.42         83.25           J-785         160         Zone -1         WW         Fixed         1.54         340.07         54.11           J-788         249         Zone -1         WW         Fixed         1.54         340.07         54.11           J-780         265         Zone -1         WW         Fixed         1.54         340.03         39.42           J-780         265         Zone -1         WW         Fixed         1.54         340.03         39.42           J-791         246         Zone -1         WW         Fixed         1.54         340.04         30.39           J-792         273         Zone -1         WW         Fixed         1.54         340.04         36.36           J-794         256         Zone -1         WW         Fixed         1.54         340.04         36.36           J-796		J-781	135	Zone - 1	WW	Fixed	1.54	346.00	91.29
J-783         135         Zone -1         WW         Fixed         1.54         345.09         91.25           J-784         153         Zone -1         WW         Fixed         1.54         345.42         83.25           J-785         160         Zone -1         WW         Fixed         1.54         342.68         79.04           J-787         215         Zone -1         WW         Fixed         1.54         340.07         54.11           J-788         249         Zone -1         WW         Fixed         1.54         340.05         51.94           J-780         265         Zone -1         WW         Fixed         1.54         340.03         32.46           J-791         248         Zone -1         WW         Fixed         1.54         340.03         39.82           J-792         273         Zone -1         WW         Fixed         1.54         340.04         36.36           J-794         256         Zone -1         WW         Fixed         1.54         340.04         36.36           J-795         256         Zone -1         WW         Fixed         1.54         340.04         36.36           J-796		J-782	135	Zone - 1	WW	Fixed	1.54	345.90	91.25
J-784         153         Zone -1         WW         Fixed         1.54         345.42         83.25           J-787         126         Zone -1         WW         Fixed         1.54         342.68         79.04           J-787         215         Zone -1         WW         Fixed         1.54         340.07         54.11           J-789         220         Zone -1         WW         Fixed         1.54         340.03         32.46           J-780         226         Zone -1         WW         Fixed         1.54         340.03         32.46           J-791         246         Zone -1         WW         Fixed         1.54         340.03         39.82           J-792         273         Zone -1         WW         Fixed         1.54         340.04         47.18           J-793         231         Zone -1         WW         Fixed         1.54         340.04         36.36           J-795         256         Zone -1         WW         Fixed         1.54         340.04         33.33           J-796         263         Zone -1         WW         Fixed         1.54         340.04         33.33           J-797		J-783	135	Zone - 1	WW	Fixed	1.54	345.90	91.25
J-785         160         Zone - 1         WW         Fixed         1.54         342.68         79.04           J-787         215         Zone - 1         WW         Fixed         1.54         340.07         54.11           J-788         220         Zone - 1         WW         Fixed         1.54         340.05         51.94           J-789         220         Zone - 1         WW         Fixed         1.54         340.03         32.46           J-790         265         Zone - 1         WW         Fixed         1.54         340.03         39.82           J-791         248         Zone - 1         WW         Fixed         1.54         340.04         47.18           J-792         273         Zone - 1         WW         Fixed         1.54         340.04         47.18           J-793         231         Zone - 1         WW         Fixed         1.54         340.04         36.36           J-795         256         Zone - 1         WW         Fixed         1.54         340.04         36.36           J-796         265         Zone - 1         WW         Fixed         1.54         345.40         57.72           J-800		J-784	153	Zone - 1	WW	Fixed	1.54	345.42	83.25
J-787         215         Zone - 1         WW         Fixed         1.54         340.07         54.11           J-788         220         Zone - 1         WW         Fixed         1.54         339.16         38.01           J-789         220         Zone - 1         WW         Fixed         1.54         340.05         51.94           J-790         265         Zone - 1         WW         Fixed         1.54         340.03         39.82           J-791         248         Zone - 1         WW         Fixed         1.54         340.03         39.82           J-792         273         Zone - 1         WW         Fixed         1.54         340.04         26.36           J-793         231         Zone - 1         WW         Fixed         1.54         340.04         36.36           J-794         256         Zone - 1         WW         Fixed         1.54         340.04         36.36           J-796         263         Zone - 1         WW         Fixed         1.54         340.04         36.36           J-797         245         Zone - 1         WW         Fixed         1.54         345.40         57.72           J-800		J-785	160	Zone - 1		Fixed	1.54	342.68	79.04
J-788         249         Zone - 1         WW         Fixed         1.54         339.16         39.01           J-780         220         Zone - 1         WW         Fixed         1.54         340.03         32.46           J-791         246         Zone - 1         WW         Fixed         1.54         340.03         33.246           J-791         248         Zone - 1         WW         Fixed         1.54         340.03         39.82           J-792         273         Zone - 1         WW         Fixed         1.54         340.04         38.82           J-793         231         Zone - 1         WW         Fixed         1.54         340.04         36.36           J-794         256         Zone - 1         WW         Fixed         1.54         340.04         36.36           J-796         263         Zone - 1         WW         Fixed         1.54         340.04         41.32           J-798         165         Zone - 1         WW         Fixed         1.54         345.40         57.72           J-800         212         Zone - 1         WW         Fixed         1.54         351.09         58.34           J-801		J-787	215	Zone - 1		Fixed	1.54	340.07	54.11
J-789         220         Zone - 1         WW         Fixed         1.54         340.05         51.94           J-790         265         Zone - 1         WW         Fixed         1.54         340.03         32.46           J-791         248         Zone - 1         WW         Fixed         1.54         340.03         32.46           J-792         273         Zone - 1         WW         Fixed         1.54         340.03         29.00           J-793         231         Zone - 1         WW         Fixed         1.54         340.04         47.18           J-795         256         Zone - 1         WW         Fixed         1.54         340.04         49.38.36           J-796         263         Zone - 1         WW         Fixed         1.54         340.04         33.33           J-797         245         Zone - 1         WW         Fixed         1.54         340.04         41.12           J-798         165         Zone - 1         WW         Fixed         1.54         345.40         57.72           J-800         212         Zone - 1         WW         Fixed         1.54         351.09         58.24           J-801		J-788	249	Zone - 1	WW	Fixed	1.54	339.16	39.01
J-790         265         Zone - 1         WW         Fixed         1.54         340.03         32.46           J-791         248         Zone - 1         WW         Fixed         1.54         340.03         39.82           J-792         273         Zone - 1         WW         Fixed         1.54         340.03         39.82           J-793         231         Zone - 1         WW         Fixed         1.54         340.04         47.18           J-794         256         Zone - 1         WW         Fixed         1.54         340.04         36.36           J-796         263         Zone - 1         WW         Fixed         1.54         340.04         38.33           J-797         245         Zone - 1         WW         Fixed         1.54         340.04         33.33           J-798         165         Zone - 1         WW         Fixed         1.54         345.40         57.72           J-800         212         Zone - 1         WW         Fixed         1.54         345.40         57.72           J-802         158         Zone - 1         WW         Fixed         1.54         351.09         56.72           J-803		J-789	220	Zone - 1	WW	Fixed	1.54	340.05	51.94
J-791         248         Zone - 1         WW         Fixed         1.54         340.03         39.82           J-792         273         Zone - 1         WW         Fixed         1.54         340.03         29.00           J-793         231         Zone - 1         WW         Fixed         1.54         340.04         36.36           J-794         256         Zone - 1         WW         Fixed         1.54         340.04         36.36           J-795         256         Zone - 1         WW         Fixed         1.54         340.04         36.36           J-796         263         Zone - 1         WW         Fixed         1.54         340.04         41.32           J-797         245         Zone - 1         WW         Fixed         1.54         345.40         77.2           J-800         212         Zone - 1         WW         Fixed         1.54         345.40         57.72           J-801         220         Zone - 1         WW         Fixed         1.54         351.09         56.72           J-802         158         Zone - 1         WW         Fixed         1.54         351.09         56.72           J-802		J-790	265	Zone - 1		Fixed	1.54	340.03	32.46
J-792         273         Zone - 1         WW         Fixed         1.54         340.03         29.00           J-793         231         Zone - 1         WW         Fixed         1.54         340.04         47.18           J-795         256         Zone - 1         WW         Fixed         1.54         340.04         36.36           J-795         256         Zone - 1         WW         Fixed         1.54         340.04         36.36           J-796         263         Zone - 1         WW         Fixed         1.54         340.04         33.33           J-797         245         Zone - 1         WW         Fixed         1.54         345.40         77.72           J-806         165         Zone - 1         WW         Fixed         1.54         345.40         57.72           J-800         212         Zone - 1         WW         Fixed         1.54         345.00         57.72           J-802         158         Zone - 1         WW         Fixed         1.54         351.09         58.72           J-802         158         Zone - 1         WW         Fixed         1.54         352.25         84.04           J-804		J-791	248	Zone - 1	WW	Fixed	1.54	340.03	39.82
J-793         231         Zone - 1         WW         Fixed         1.54         340.04         47.18           J-794         256         Zone - 1         WW         Fixed         1.54         340.04         36.36           J-795         256         Zone - 1         WW         Fixed         1.54         340.04         36.36           J-796         263         Zone - 1         WW         Fixed         1.54         340.04         33.33           J-797         245         Zone - 1         WW         Fixed         1.54         340.04         41.12           J-798         165         Zone - 1         WW         Fixed         1.54         345.40         77.2           J-800         212         Zone - 1         WW         Fixed         1.54         345.40         57.72           J-801         220         Zone - 1         WW         Fixed         1.54         351.09         56.72           J-803         158         Zone - 1         WW         Fixed         1.54         352.25         84.04           J-804         130         Zone - 1         WW         Fixed         1.54         345.73         98.09           J-805	_	J-792	273	Zone - 1		Fixed	1.54	340.03	29.00
J-794         256         Zone - 1         WW         Fixed         1.54         340.04         36.36           J-795         256         Zone - 1         WW         Fixed         1.54         340.04         36.36           J-796         263         Zone - 1         WW         Fixed         1.54         340.04         33.33           J-797         245         Zone - 1         WW         Fixed         1.54         340.04         41.12           J-798         165         Zone - 1         WW         Fixed         1.54         345.40         77.12           J-800         212         Zone - 1         WW         Fixed         1.54         345.40         57.72           J-801         220         Zone - 1         WW         Fixed         1.54         351.09         85.54           J-802         158         Zone - 1         WW         Fixed         1.54         352.25         84.04           J-803         158         Zone - 1         WW         Fixed         1.54         352.25         96.16           J-805         148         Zone - 1         WW         Fixed         1.54         348.73         98.09           J-806		J-793	231	Zone - 1		Fixed	1.54	340.04	47.18
J-795         256         Zone - 1         WW         Fixed         1.54         340.04         35.36           J-796         263         Zone - 1         WW         Fixed         1.54         340.04         33.33           J-797         245         Zone - 1         WW         Fixed         1.54         340.04         41.12           J-798         165         Zone - 1         WW         Fixed         1.54         345.40         57.72           J-800         212         Zone - 1         WW         Fixed         1.54         345.40         57.72           J-801         220         Zone - 1         WW         Fixed         1.54         345.40         57.72           J-801         220         Zone - 1         WW         Fixed         1.54         351.09         56.72           J-803         158         Zone - 1         WW         Fixed         1.54         351.09         83.54           J-804         130         Zone - 1         WW         Fixed         1.54         353.65         88.97           J-806         122         Zone - 1         WW         Fixed         1.54         362.29         92.72           J-808		J-794	256	Zone - 1		Fixed	1.54	340.04	30.30
J-796       263       Zone - 1       WW       Fixed       1.34       340.04       33.33         J-797       245       Zone - 1       WW       Fixed       1.54       340.04       41.12         J-798       165       Zone - 1       WW       Fixed       1.54       345.40       78.05         J-799       212       Zone - 1       WW       Fixed       1.54       345.40       57.72         J-800       212       Zone - 1       WW       Fixed       1.54       345.40       57.72         J-801       220       Zone - 1       WW       Fixed       1.54       345.40       57.72         J-802       158       Zone - 1       WW       Fixed       1.54       351.09       83.54         J-802       158       Zone - 1       WW       Fixed       1.54       352.25       84.04         J-804       130       Zone - 1       WW       Fixed       1.54       348.78       98.09         J-806       122       Zone - 1       WW       Fixed       1.54       348.18       97.86         J-806       148       Zone - 1       WW       Fixed       1.54       348.18       97.86		J-795	256	Zone - 1		Fixed	1.54	340.04	30.30
J-797       245       Zone - 1       WW       Fixed       1.54       340.04       41.12         J-798       165       Zone - 1       WW       Fixed       1.54       345.40       78.05         J-799       212       Zone - 1       WW       Fixed       1.54       345.40       57.72         J-800       212       Zone - 1       WW       Fixed       1.54       345.40       57.72         J-801       220       Zone - 1       WW       Fixed       1.54       351.09       56.72         J-802       158       Zone - 1       WW       Fixed       1.54       351.09       83.54         J-803       158       Zone - 1       WW       Fixed       1.54       352.25       84.04         J-805       148       Zone - 1       WW       Fixed       1.54       353.65       88.97         J-806       122       Zone - 1       WW       Fixed       1.54       348.73       98.09         J-806       122       Zone - 1       WW       Fixed       1.54       348.18       97.86         J-808       148       Zone - 1       WW       Fixed       1.54       362.29       92.72	L	J-796	263	Zone - 1		Fixed	1.54	340.04	41 12
J-798         165         Zone - 1         WW         Fixed         1.54         345.40         76.05           J-799         212         Zone - 1         WW         Fixed         1.54         345.40         57.72           J-800         212         Zone - 1         WW         Fixed         1.54         345.40         57.72           J-801         220         Zone - 1         WW         Fixed         1.54         345.40         57.72           J-802         158         Zone - 1         WW         Fixed         1.54         351.09         56.72           J-803         158         Zone - 1         WW         Fixed         1.54         352.25         84.04           J-804         130         Zone - 1         WW         Fixed         1.54         352.25         96.16           J-804         130         Zone - 1         WW         Fixed         1.54         352.25         96.16           J-804         130         Zone - 1         WW         Fixed         1.54         352.25         96.16           J-805         148         Zone - 1         WW         Fixed         1.54         362.29         92.72           J-807	L	J-797	245	Zone - 1		Fixed	1.34	246.04	78.05
J-199         212         Zone - 1         WW         Fixed         1.54         343.40         57.72           J-800         212         Zone - 1         WW         Fixed         1.54         345.40         57.72           J-801         220         Zone - 1         WW         Fixed         1.54         345.40         57.72           J-802         158         Zone - 1         WW         Fixed         1.54         351.09         83.54           J-803         158         Zone - 1         WW         Fixed         1.54         352.25         84.04           J-804         130         Zone - 1         WW         Fixed         1.54         352.25         96.16           J-805         148         Zone - 1         WW         Fixed         1.54         352.25         96.18           J-806         122         Zone - 1         WW         Fixed         1.54         348.73         98.09           J-806         122         Zone - 1         WW         Fixed         1.54         348.73         98.09           J-808         148         Zone - 1         WW         Fixed         1.54         364.90         98.17           J-809	L L	J-798	165	Zone - 1		Fixed	1.04	345.40	57 72
J-800         212         Zone - 1         WW         Fixed         1.34         343.40         57.12           J-801         220         Zone - 1         WW         Fixed         1.54         351.09         56.72           J-802         158         Zone - 1         WW         Fixed         1.54         351.09         83.54           J-802         158         Zone - 1         WW         Fixed         1.54         352.25         84.04           J-804         130         Zone - 1         WW         Fixed         1.54         352.25         96.16           J-805         148         Zone - 1         WW         Fixed         1.54         353.65         88.97           J-806         122         Zone - 1         WW         Fixed         1.54         348.73         98.09           J-807         122         Zone - 1         WW         Fixed         1.54         348.73         98.09           J-808         148         Zone - 1         WW         Fixed         1.54         362.29         92.72           J-809         138         Zone - 1         WW         Fixed         1.54         364.90         98.17           J-810	Ļ	J-799	212	Zone - 1		Fixed	1.34	345.40	57 72
J-801         220         Zone - 1         WW         Fixed         1.54         351.05         50.72           J-802         158         Zone - 1         WW         Fixed         1.54         351.09         83.54           J-803         158         Zone - 1         WW         Fixed         1.54         352.25         96.16           J-804         130         Zone - 1         WW         Fixed         1.54         352.25         96.16           J-805         148         Zone - 1         WW         Fixed         1.54         353.65         88.97           J-806         122         Zone - 1         WW         Fixed         1.54         348.73         98.09           J-807         122         Zone - 1         WW         Fixed         1.54         348.18         97.86           J-808         148         Zone - 1         WW         Fixed         1.54         362.29         92.72           J-809         138         Zone - 1         WW         Fixed         1.54         364.90         98.17           J-810         155         Zone - 1         WW         Fixed         1.54         346.19         93.10         110.33	⊢	J-800	212			Fixed	1.04	351.00	56 72
J-802         136         Zone - 1         WW         Fixed         1.54         352.25         84.04           J-803         158         Zone - 1         WW         Fixed         1.54         352.25         84.04           J-804         130         Zone - 1         WW         Fixed         1.54         352.25         84.04           J-805         148         Zone - 1         WW         Fixed         1.54         353.65         88.97           J-806         122         Zone - 1         WW         Fixed         1.54         348.73         98.09           J-806         122         Zone - 1         WW         Fixed         1.54         348.73         98.09           J-807         122         Zone - 1         WW         Fixed         1.54         348.73         98.09           J-808         148         Zone - 1         WW         Fixed         1.54         362.29         92.72           J-809         138         Zone - 1         WW         Fixed         1.54         364.90         98.17           J-810         155         Zone - 1         WW         Fixed         1.54         348.70         1110.33           J-811	_	J-801	220	Zone - 1		Fixed	1.54	351.09	83.54
J-803         136         Z016 - 1         WW         Fixed         1.54         352.25         96.16           J-804         130         Zone - 1         WW         Fixed         1.54         352.25         96.16           J-805         148         Zone - 1         WW         Fixed         1.54         352.65         88.97           J-806         122         Zone - 1         WW         Fixed         1.54         348.73         98.09           J-807         122         Zone - 1         WW         Fixed         1.54         348.18         97.86           J-808         148         Zone - 1         WW         Fixed         1.54         362.29         92.72           J-809         138         Zone - 1         WW         Fixed         1.54         366.04         91.31           J-810         155         Zone - 1         WW         Fixed         1.54         348.70         111.06           J-811         92         Zone - 1         WW         Fixed         1.54         344.70         111.06           J-813         90         Zone - 1         WW         Fixed         1.54         344.77         110.23           J-813		J-802	108	Zone - 1	<u> </u>	Fixed	1.54	352.25	84.04
J-604         130         Zone - 1         WW         Fixed         1.54         353.65         88.97           J-805         148         Zone - 1         WW         Fixed         1.54         353.65         88.97           J-806         122         Zone - 1         WW         Fixed         1.54         348.73         98.09           J-807         122         Zone - 1         WW         Fixed         1.54         348.73         98.09           J-808         148         Zone - 1         WW         Fixed         1.54         362.29         92.72           J-809         138         Zone - 1         WW         Fixed         1.54         366.04         91.31           J-810         155         Zone - 1         WW         Fixed         1.54         348.70         111.06           J-811         92         Zone - 1         WW         Fixed         1.54         348.70         111.06           J-812         90         Zone - 1         WW         Fixed         1.54         348.70         111.06           J-813         90         Zone - 1         WW         Fixed         1.54         344.88         110.28           J-813	⊢	J-003	138	2000-1	 \\\\\\	Fixed	1.54	352.25	96.16
J-805         140         2016 - 1         WW         Fixed         1.54         308.09           J-806         122         Zone - 1         WW         Fixed         1.54         348.73         98.09           J-807         122         Zone - 1         WW         Fixed         1.54         348.73         98.09           J-808         148         Zone - 1         WW         Fixed         1.54         362.29         92.72           J-809         138         Zone - 1         WW         Fixed         1.54         366.04         91.31           J-809         138         Zone - 1         WW         Fixed         1.54         366.04         91.31           J-810         155         Zone - 1         WW         Fixed         1.54         348.70         111.06           J-812         90         Zone - 1         WW         Fixed         1.54         348.70         111.08           J-813         90         Zone - 1         WW         Fixed         1.54         344.88         110.28           J-813         90         Zone - 1         WW         Fixed         1.54         344.77         110.23           J-814         105	$\vdash$	1 905	130	Zone 1		Fixed	1.54	353.65	88.97
J-805         122         Zone - 1         WW         Fixed         1.54         348.18         97.86           J-807         122         Zone - 1         WW         Fixed         1.54         348.18         97.86           J-808         148         Zone - 1         WW         Fixed         1.54         362.29         92.72           J-809         138         Zone - 1         WW         Fixed         1.54         366.04         91.31           J-810         155         Zone - 1         WW         Fixed         1.54         348.70         111.06           J-811         92         Zone - 1         WW         Fixed         1.54         348.70         111.06           J-812         90         Zone - 1         WW         Fixed         1.54         348.70         111.06           J-813         90         Zone - 1         WW         Fixed         1.54         344.88         110.28           J-813         90         Zone - 1         WW         Fixed         1.54         344.88         110.28           J-814         105         Zone - 1         WW         Fixed         1.54         344.77         110.23           J-816	-	1.005	140	Z010 - 1		Fixed	1.54	348.73	98.09
J-808         148         Zone - 1         WW         Fixed         1.54         362.29         92.72           J-808         148         Zone - 1         WW         Fixed         1.54         363.90         98.17           J-809         138         Zone - 1         WW         Fixed         1.54         366.04         91.31           J-810         155         Zone - 1         WW         Fixed         1.54         348.00         111.06           J-811         92         Zone - 1         WW         Fixed         1.54         348.70         111.06           J-812         90         Zone - 1         WW         Fixed         1.54         348.70         111.08           J-813         90         Zone - 1         WW         Fixed         1.54         344.88         110.28           J-813         90         Zone - 1         WW         Fixed         1.54         344.77         110.23           J-814         105         Zone - 1         WW         Fixed         1.54         329.50         97.13           J-815         90         Zone - 1         WW         Fixed         1.54         344.77         110.23           J-816		1-207	122	7000-1	ww	Fixed	1.54	348.18	97.86
J-805         140         Zone 1         WW         Fixed         1.54         364.90         98.17           J-809         138         Zone - 1         WW         Fixed         1.54         366.04         91.31           J-810         155         Zone - 1         WW         Fixed         1.54         366.04         91.31           J-810         92         Zone - 1         WW         Fixed         1.54         348.70         111.06           J-812         90         Zone - 1         WW         Fixed         1.54         345.01         110.33           J-813         90         Zone - 1         WW         Fixed         1.54         344.88         110.28           J-813         90         Zone - 1         WW         Fixed         1.54         344.88         110.28           J-814         105         Zone - 1         WW         Fixed         1.54         329.50         97.13           J-815         90         Zone - 1         WW         Fixed         1.54         344.77         110.23           J-816         105         Zone - 1         WW         Fixed         1.54         344.62         110.60           J-817	-	1_2007	1/12	7000-1	WW	Fixed	1.54	362.29	92.72
J-810         155         Zone - 1         WW         Fixed         1.54         366.04         91.31           J-810         155         Zone - 1         WW         Fixed         1.54         348.70         111.06           J-811         92         Zone - 1         WW         Fixed         1.54         348.70         111.06           J-812         90         Zone - 1         WW         Fixed         1.54         345.01         110.33           J-813         90         Zone - 1         WW         Fixed         1.54         344.88         110.28           J-814         105         Zone - 1         WW         Fixed         1.54         329.50         97.13           J-815         90         Zone - 1         WW         Fixed         1.54         344.77         110.23           J-816         105         Zone - 1         WW         Fixed         1.54         329.51         97.14           J-817         89         Zone - 1         WW         Fixed         1.54         344.62         110.60           J-818         75         Zone - 1         WW         Fixed         1.54         344.14         116.44           J-819	$\vdash$	1.200	138	Zone - 1	Ŵ	Fixed	1.54	364.90	98.17
J-811         92         Zone - 1         WW         Fixed         1.54         348.70         111.06           J-812         90         Zone - 1         WW         Fixed         1.54         345.01         110.33           J-813         90         Zone - 1         WW         Fixed         1.54         344.88         110.28           J-813         90         Zone - 1         WW         Fixed         1.54         344.88         110.28           J-814         105         Zone - 1         WW         Fixed         1.54         329.50         97.13           J-815         90         Zone - 1         WW         Fixed         1.54         344.77         110.23           J-816         105         Zone - 1         WW         Fixed         1.54         329.51         97.14           J-817         89         Zone - 1         WW         Fixed         1.54         344.62         110.60           J-818         75         Zone - 1         WW         Fixed         1.54         344.14         116.44           J-819         75         Zone - 1         WW         Fixed         1.54         343.80         116.30	⊢	J_810	155	Zone - 1	ww	Fixed	1.54	366.04	91.31
J-812         90         Zone - 1         WW         Fixed         1.54         345.01         110.33           J-813         90         Zone - 1         WW         Fixed         1.54         344.88         110.28           J-813         90         Zone - 1         WW         Fixed         1.54         344.88         110.28           J-814         105         Zone - 1         WW         Fixed         1.54         329.50         97.13           J-815         90         Zone - 1         WW         Fixed         1.54         344.77         110.23           J-816         105         Zone - 1         WW         Fixed         1.54         329.51         97.14           J-817         89         Zone - 1         WW         Fixed         1.54         344.62         110.60           J-818         75         Zone - 1         WW         Fixed         1.54         344.14         116.44           J-819         75         Zone - 1         WW         Fixed         1.54         343.80         116.30	-	J-811	92	Zone - 1	WW	Fixed	1.54	348.70	111.06
J-81390Zone - 1WWFixed1.54344.88110.28J-814105Zone - 1WWFixed1.54329.5097.13J-81590Zone - 1WWFixed1.54344.77110.23J-816105Zone - 1WWFixed1.54329.5197.14J-81789Zone - 1WWFixed1.54344.62110.60J-81875Zone - 1WWFixed1.54344.14116.44J-81975Zone - 1WWFixed1.54343.80116.30	-	J-812	90	Zone - 1	ww	Fixed	1.54	345.01	110.33
J-814105Zone - 1WWFixed1.54329.5097.13J-81590Zone - 1WWFixed1.54344.77110.23J-816105Zone - 1WWFixed1.54329.5197.14J-81789Zone - 1WWFixed1.54344.62110.60J-81875Zone - 1WWFixed1.54344.14116.44J-81975Zone - 1WWFixed1.54343.80116.30		J-813	90	Zone - 1	ww	Fixed	1.54	344.88	110.28
J-81590Zone - 1WWFixed1.54344.77110.23J-816105Zone - 1WWFixed1.54329.5197.14J-81789Zone - 1WWFixed1.54344.62110.60J-81875Zone - 1WWFixed1.54344.14116.44J-81975Zone - 1WWFixed1.54343.80116.30	ŀ	J-814	105	Zone - 1		Fixed	1.54	329.50	97.13
J-816105Zone - 1WWFixed1.54329.5197.14J-81789Zone - 1WWFixed1.54344.62110.60J-81875Zone - 1WWFixed1.54344.14116.44J-81975Zone - 1WWFixed1.54343.80116.30	F	J-815	90	Zone - 1	WW	Fixed	1.54	344.77	110.23
J-817         89         Zone - 1         WW         Fixed         1.54         344.62         110.60           J-818         75         Zone - 1         WW         Fixed         1.54         344.14         116.44           J-819         75         Zone - 1         WW         Fixed         1.54         343.80         116.30	F	J-816	105	Zone - 1	ww	Fixed	1.54	329.51	97.14
J-818         75         Zone - 1         WW         Fixed         1.54         344.14         116.44           J-819         75         Zone - 1         WW         Fixed         1.54         343.80         116.30	L L	J-817	89	Zone - 1	WW	Fixed	1.54	344.62	110.60
J-819 75 Zone - 1 WW Fixed 1.54 343.80 116.30	Ī	J-818	75	Zone - 1		Fixed	1.54	344.14	110.44
	-	J-819	75	Zone 1	WW	Fixed	1.54	1343.80	110.30

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		-			Demand	Calculated	
	. 1				(Calculated)	Hydraulic	Pressure
Label	Elevation (ft)	Zone	Notes	Pattern	(apm)	Grade (ft)	(psi)
1-820	75	Zope - 1	ww	Fixed	1.54	343.76	116.28
1-821	75	Zone - 1	ww	Fixed	1.54	343.76	116.28
1-823	90	Zone - 1	ww	Fixed	1.54	345.00	110.33
1.824	127	Zone 1	WW	Fixed	1.54	349.42	96.23
1_925	88	Zone - 1	WW	Fixed	1.54	344 85	111 13
1926	90	Zone - 1		Fixed	1.54	345.06	110 79
1 027	09	Zone - 1	1000/	Fixed	1.54	345 13	110.81
J-021	09	Z016 - 1	16881	Fixed	1.54	245 50	97.17
J-020	121	Zone - I		Eived	1.54	345.08	110.36
J-029	90			Fixed	1.54	345.10	100.00
J-830	91	Zone - 1		Fixed	1.54	245.10	109.94
J-831	100	Zone - 1		Fixed	1.54	363.63	101.03
J-832	118	Zone - 1		Fixed	1.04	249 13	00.57
J-833	118	Zone - 1	VVVV	Fixed	1.34	340.13	07.00
J-834	129	Zone - 1		Fixed	1.04	355.40	97.99
J-835	121	Zone - 1	VVV	Fixed	1.54	354.69	101.19
J-836	140	Zone - 1	WW	rixed	1.54	357.56	04.00
<u>J-837</u>	140	Zone - 1	WW	Fixed	1.54	358.84	94.08
J-838	127	Zone - 1	WW	Fixed	1.54	347.92	95.58
J-839	125	Zone - 1	W	Fixed	1.54	371.80	106.78
J-840	136	Zone - 1	WW	Fixed	1.54	372.34	102.25
J-841	140	Zone - 1	WW	Fixed	1.54	361.53	95.84
J-842	149	Zone - 1	WW	Fixed	1.54	366.27	94.00
J-843	148	Zone - 1	WW	Fixed	1.54	373.10	97.39
J-844	140	Zone - 1	WW	Fixed	1.54	372.45	100.57
J-845	150	Zone - 1	WW	Fixed	1.54	374.35	97.07
J-846	163	Zone - 1	WW	Fixed	1.54	374.95	91.70
J-847	163	Zone - 1	WW	Fixed	1.54	374.94	91.70
J-848	170	Zone - 1	ww	Fixed	1.54	374.91	88.66
J-849	140	Zone - 1	ww	Fixed	1.54	367.94	98.62
J-850	173	Zone - 1	ww	Fixed	1.54	367.93	84.34
J-851	170	Zone - 1	WW	Fixed	1.54	367.93	85.64
J-852	136	Zone - 1	WW	Fixed	1.54	372.47	102.31
J-853	125	Zone - 1	WW	Fixed	1.54	371.00	106.43
1-854	160	Zone - 1	WW	Fixed	1.54	369.37	90.58
1-855	124	Zope - 1	WW	Fixed	1.54	370.12	106.49
1-856	124	Zone 1	WW	Fixed	1.54	370,10	106.48
1_957	125	Zone 1	ww	Fixed	1.54	370.08	106.03
1_959	125	Zone - 1	ww	Fixed	1.54	370.06	106.02
1.850	120	7000-1	ww	Fixed	1.54	374.38	92.75
1.000	210	7000-1		Fixed	1.54	374.39	71.12
1004	470	7000-1		Fixed	1.54	374.45	87.59
1000	1/2	Zone 1		Fived	1.54	376 10	78.35
J-002	195			Fixed	1.57	375 10	89.64
J-863	168	Zone - 1		Fixed	1.54	375 45	88.89
J-864	1/0	20ne - 1		Fixed	1.04	376 20	87 13
	1/5			Elved	1.54	376 34	80.27
J-866	170			Eived	1.04	376 22	92 30
J-867	163	20ne - 1		Elvad	4 54	376 35	89.28
J-868	170			Fixed	1.04	374.90	86.49
J-869	175	Zone - 1	VVV	Fixed	1.04	274.00	84.32
J-870	180	Zone - 1		rixed	1.04	274.00	<u><u> </u></u>
J-871	180	Zone - 1		Fixed	1.54	374.00	04.32
J-872	180	Zone - 1	WW	Fixed	1.54	3/4.00	04.31
J-873	184	Zone - 1		Fixed	1.54	3/0.12	03.12
J-874	168	Zone - 1		Fixed	1.54	1 3/3.43	75 22
J-875	202	Zone - 1	W	Fixed	1.54	3/0.10	10.00
J-876	230	Zone - 1	W	Fixed	1.54	3/6.09	03.21
J-877	230	Zone - 1	WW	Fixed	1.54	376.08	03.20
J-878	211	Zone - 1	ww	Fixed	1.54	375.95	/1.3/
J-879	242	Zone - 1		Fixed	1.54	370.77	55./1
J-880	_242	Zone - 1		Fixed	1.54	370.77	55./1
J-881	240	Zone - 1	WW	Fixed	1.54	380.87	60.95
		7	1 1466/	Fixed	1.54	376.18	/1.90

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					Demand (Calculated)	Calculated Hydraulic	Pressure
Label	Elevation (#)	7000	Notes	Pattern	(apm)	Grade (ff)	(nsi)
1.99/	210	Z01/C	WW	Fixed	1.54	376.85	72.19
1-885	248	Zone - 1	WW	Fixed	1.54	377.94	56.22
1-886	235	Zone - 1	WW	Fixed	1.54	364.58	56.06
J-887	155	Zone - 1	WW	Fixed	1.54	364.58	90.67
J-888	200	Zone - 1	WW	Fixed	1.54	364.63	71.23
J-889	200	Zone - 1	WW	Fixed	1.54	364.63	71.23
J-890	178	Zone - 1	ww	Fixed	1.54	365.00	80.90
J-891	183	Zone - 1	ww	Fixed	1.54	364.68	78.61
J-892	183	Zone - 1	ww	Fixed	1.54	364.68	78.60
J-893	200	Zone - 1	ww	Fixed	1.54	362.88	70.47
J-894	178	Zone - 1	WW	Fixed	1.54	364.15	80.54
J-895	198	Zone - 1	WW	Fixed	1.54	364.68	72.12
J-896	198	Zone - 1		Fixed	1.54	364.70	72.12
J-897	198	Zone - 1		Fixed	1.54	364.73	72.13
<u>J-898</u>	198	Zone - 1		Fixed	1.54	364.72	/2.13
J-899	155	Zone - 1	W	Fixed	1.54	364.95	90.84
<u>J-900</u>	189	Zone - 1		Fixed	1.54	304.68	71.40
J-901	200	Zone - 1		Fixed	1.54	304.40	
J-902	155	Zone - 1	VVVV	FIXED	1.54	262 05	90.00
J-903	189	Zone - 1			1.54	302.00	57.47
J-904	230	Zone - 1		Fixed	1.54	362.04	57.47
J-905	230	Zone - 1		Fixed	1.04	362.84	57.47
J-906	230	Zone - 1		Fixed	1.54	362.84	57.47
J-907	230	Zone - 1		Fixed	1.54	362.84	66.13
<u>J-908</u>	210	Zone - 1		Fixed	1.54	362.88	70.47
J-909	200	Zone - 1	>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	Fixed	1.54	363 14	90.05
J-910	155		1000 VVVV	Fixed	1.54	363 17	90.06
1012	100	Zone - 1		Fixed	1.54	355.62	83.34
1.012	163	Zone - 1		Fixed	1.54	360.82	85.59
1-01/	155	Zone - 1	ww	Fixed	1.54	363.36	90.15
1.015	180	Zone - 1		Fixed	1.54	365.32	76.28
1-915	156	Zone - 1	ww	Fixed	1.54	365.10	90.47
1-017	149	Zone - 1	ww	Fixed	1.54	365.09	93.49
1.018	149	Zone - 1	WW	Fixed	1.54	365.08	93.49
1-010	167	Zone - 1	WW	Fixed	1.54	364.97	85.65
1-920	155	Zone - 1		Fixed	1.54	364.95	90.84
J-921	156	Zone - 1	WW	Fixed	1.54	368.91	92.11
J-922	149	Zone - 1		Fixed	1.54	368.66	95.04
J-923	161	Zone - 1	ww	Fixed	1.54	368.59	89.82
J-924	161	Zone - 1	WW	Fixed	1.54	368.59	89.81
J-925	150	Zone - 1	ww	Fixed	1.54	368.61	94.58
J-926	170	Zone - 1	WW	Fixed	1.54	373.10	87.87
J-927	170	Zone - 1	ww	Fixed	1.54	373.42	88.01
J-928	166	Zone - 1	ww	Fixed	1.54	373.54	89.79
J-929	166	Zone - 1	ww	Fixed	1.54	373.47	89.76
J-930	167	Zone - 1	ww	Fixed	1.54	372.96	89.11
J-931	165	Zone - 1	WW	Fixed	1.54	372.94	89.97
J-932	165	Zone - 1	WW	Fixed	1.54	372.94	89.97
J-933	150	Zone - 1		Fixed	1.54	372.94	96.46
J-934	155	Zone - 1		Fixed	1.54	335.63	/0.15
J-935	150	Zone - 1		Fixed	1.54	335.63	04.00
J-936	155	Zone - 1		Fixed	1.54	312.44	02 27
J-937	155	Zone - 1	WW	Fixed	1.04	326.02	65 34
J-938	185	Zone - 1	VVVV	Fixed	1.04	336.72	47 91
<u>J-939</u>	225	Zone - 1		Fixed	1.54	496.98	117.67
J-940	225	20ne - 2		Fived	1.54	496 98	112.05
<u>J-941</u>	238	Zone - 2		Fived	1.54	496.98	119.84
<u>J-942</u>	220	Zone - 2	\^^/	Fixed	1.54	496.98	106.86
	250		VVV VAA/	Fixed	1.54	496.98	103.83
	25/			Fixed	1.54	496.98	91.28
J-945	266	<u>  20ne - 2</u>	****	INCO		1	

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					Demand	Calculated	
		i			(Calculated)	Hydraulic	Pressure
Label	Elevation (ft)	Zone	Notes	Pattern	(gpm)	Grade (ft)	(psi)
J-946	260	Zone - 2	WW	Fixed	1.54	496.98	102.53
J-947	270	Zone - 2	WW	Fixed	1.54	496.98	98.20
J-948	285	Zone - 2	WW	Fixed	1.54	496.98	91.71
J-949	300	Zone - 2	ww	Fixed	1.54	496.98	85.22
J-950	301	Zone - 2	WW	Fixed	1.54	496.98	84.79
J-951	298	Zone - 2	WW	Fixed	1.54	496.98	86.09
J-952	220	Zone - 1	WW	Fixed	1.54	335.70	50.06
J-953	211	Zone - 1	WW	Fixed	1.54	335.69	53.95
J-955	160	Zone - 1	ww	Fixed	1.54	335.63	75.99
J-956	160	Zone - 1	ww	Fixed	1.54	335.62	75.98
J-957	155	Zone - 1	WW	Fixed	1.54	335.66	78.16
1-958	185	Zone - 1	ww	Fixed	1.54	335 72	65.21
1-959	185	Zone - 1	WW	Fixed	1.54	335.64	65.18
1-960	155	Zone - 1	WWW	Fixed	1.04	368.41	92.33
1-061	155	Zone - 1		Fixed	1.54	335.55	78.12
1062	100	Zone - 1		Fixed	1.54	336.09	78.35
1.062	100		1000/	- Fixed	1.54	220.00	76.33
J-903	101		1444	Fixed	1.04	330.31	50.94
J-904	200	20116 - 1	<u><u><u></u></u></u>		1.34	330.31	76.04
J-965	163	Zone - 1		rixed	1.04	330.00	/0.U1
J-966	205	Zone - 1			1.54	338.08	57.64
J-967	270	Zone - 2			1.54	496.88	98.16
J-968	290	Zone - 2	VVV	Fixed	1.54	496.88	89.51
J-969	285	Zone - 2	WW	Fixed	1.54	496.88	91.67
J-972	290	Zone - 2	WW	Fixed	1.54	496.88	89.51
J-973	290	Zone - 2	WW	Fixed	1.54	496.88	89.51
J-974	281	Zone - 2	WW	Fixed	1.54	496.80	93.37
J-975	270	Zone - 2	WW	Fixed	1.54	496.95	98.19
	265	Zone - 2	WW	Fixed	1.54	496.88	100.33
J-977	265	Zone - 2	WW	Fixed	1.54	496.88	100.33
J-978	265	Zone - 2	ww	Fixed	1.54	496.88	100.33
<b>J-</b> 979	240	Zone - 2	WW	Fixed	1.54	496.88	111.14
J-980	281	Zone - 1	ww	Fixed	1.54	332.66	22.35
J-981	281	Zone - 1	ŴŴ	Fixed	1.54	332.65	22.35
J-982	272	Zone - 1	WW	Fixed	0.00	332.34	26.11
J-983	290	Zone - 1	WW	Fixed	0.00	332.27	18.29
J-984	111	Zone - 1	WW	Fixed	1.54	369.95	112.03
J-985	120	Zone - 1	WW	Fixed	1.54	369.93	108.13
J-986	142	Zone - 1	ww	Fixed	1.54	380.32	103.11
J-987	130	Zone - 1	WW	Fixed	1.54	380.31	108.30
J-988	140	Zone 1	ww	Fixed	1.54	389.15	107.79
1-989	170	Zone - 1	WW	Fixed	1.54	389.08	94.78
1-991	180	Zone 1	ww	Fixed	1.54	389.00	90.42
1.992	200	Zone - 1	ww	Fixed	1.54	389.00	81.77
1-002	230	Zone - 1	ww	Fixed	1.54	387.16	68.00
1.005	215	700e - 1	ww	Fixed	1.54	388.82	75.20
1.004	102	Zone - 1	ww	Fixed	1.54	382.27	120.83
1-990	111	Zone - 1	WAA/	Fixed	1.54	389.05	120.30
1-990	122	Zone - 1	<u> </u>	Fixed	1.54	388 58	111 01
1.999	102	Zone 1	1404/	Eived	1.54	366 14	106.49
J-1000	120	Zone - 1	1000 VVV		1.54	388 31	103.10
J-1001	150	Zone - 1			1.54	200.31	103.10
J-1002	150	Zone - 1	¥¥¥¥	Fixed	1.54	200.10	112.14
3-1003	129	Zone - 1	VVVV	Fixed	1.04	300.19	117.04
J-1004		Zone - 1		Fixed	1.34	200.09	12/ 00
J-1005	100	20ne - 1		Fixed	1.34	1 200.08	124.00
J-1006	100	ZONE - 1		rixed	1.34	300.00	142 20
J-1007	129	Zone - 1		Fixed	1.54	308.03	102.00
J-1008	90	Zone - 1		FIXEO	1.54	321.00	102.92
J-1009	140	Zone - 1		rixed	1.54	369.30	106.14
J-1010	132	Zone - 1		rixed	1.54	311.33	100.14
	138	Zone - 1		Fixed	1.54	3/1.54	101.04
J-1012	132	Zone - 1	W	Fixed	1.54	3/1.54	103.64
J-1013	136	Zone - 1		Fixed	1.54	388.58	109.28

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[					Demand	Calculated	1
					(Calculated)	Hydraulic	Pressure
Label	Elevation (ft)	Zone	Notes	Pattern	(gpm)	Grade (ft)	(psi)
J-1015	132	Zone - 1	WW	Fixed	1.54	388.61	111.02
J-1016	132	Zone - 1	ww	Fixed	1.54	378.67	106.72
J-1017	132	Zone - 1	ww	Fixed	1.54	385.67	109.75
J-1018	132	Zone - 1	ww	Fixed	1.54	385.66	109.75
J-1019	132	Zone - 1		Fixed	1.54	385.39	109.63
J-1020	156	Zone - 1		Fixed	1.54	385.66	99.36
J-1021	132	Zone - 1	W	Fixed	1.54	388.68	111.05
J-1022	132	Zone - 1	W	Fixed	1.54	388.78	111.09
J-1023	180	Zone - 1	WW	Fixed	1.54	388.41	90.17
J-1025	110	Zone - 1		Fixed	1.54	388.61	120.54
J-1026	110	Zone - 1		Fixed	1.54	368.01	120.04
J-1027	110	Zone - 1		Fixed	1.54	390.04	121.10
J-1028	110	Zone - 1		Fixed	1.54	388.71	123.61
J-1029	103	Zone - 1		Fixed	1.54	388.80	107.64
1 1022	260	Z000 - 1	<u> </u>	Fixed	1.54	496.96	102.52
J-1032	280	Zone - 2		Fixed	1.54	495.87	93.40
1-1033	270	Zone - 2	ww	Fixed	1.54	495.82	97.70
.1-1035	269	Zone - 2	ww	Fixed	1.54	495.84	98.14
4-1036	265	Zone - 2	ŴŴ	Fixed	1.54	495.86	99.88
J-1037	250	Zone - 2	ww	Fixed	1.54	495.88	106.38
J-1039	240	Zone - 1	WW	Fixed	0.00	386.02	63.17
J-1040	240	Zone - 1	WW	Fixed	0.00	386.02	63.17
J-1041	130	Zone - 1	ww	Fixed	1.54	372.03	104.72
J-1042	130	Zone - 1	WW	Fixed	1.54	372.03	104.71
J-1043	210	Zone - 1		Fixed	1.54	382.22	74.51
J-1044	272	Zone - 2		Fixed	1.54	497.03	97.36
J-1045	240	Zone - 1	W	Fixed	1.54	338.68	42.69
J-1046	272	Zone - 1	W	Fixed	0.00	332.34	26.11
J-1047	210	Zone - 1	WW	Fixed	1.54	328.43	51.24
J-1048	210	Zone - 1		Fixed	1.54	328.43	51.24
J-1049	90	Zone - 1		Fixed	1.54	327.00	102.92
J-1050	130	Zone - 1		Fixed	1.54	343.91	92.55
J-1051	130	Zone - 1		Fixed	1.04	343.93	92.50
J-1052	130	Zone - 1	1000/	Fixed	1.54	343.55	92.50
J-1053	130	Zone - 1		Fixed	1.54	343.94	93.86
J-1054	220	Zone - 1		Fixed	1.54	328.31	42.53
L-1056	230	Zone - 1	WW	Fixed	1.54	328.32	42.54
1.1057	230	Zope - 1	ww	Fixed	1.54	328.32	42.54
1-1058	235	Zone - 1	ww	Fixed	1.54	328.41	40.41
1-1059	235	Zone - 1	ww	Fixed	1.54	328.42	40.42
J-1060	235	Zone - 1	ww	Fixed	1.54	328.43	40.42
J-1061	235	Zone - 1	ww	Fixed	1.54	328.44	40.43
J-1062	210	Zone - 1		Fixed	1.54	328.45	51.25
J-1063	218	Zone - 1	WW	Fixed	1.54	336.33	51.20
J-1064	200	Zone - 1	ww	Fixed	1.54	339.31	60.27
J-1065	246	Zone - 1	WW	Fixed	1.54	341.03	41.12
J-1066	190	Zone - 1	WW	Fixed	1.54	341.06	65.36
J-1067	170	Zone - 1		Fixed	1.54	341.06	/4.01
J-1068	172	Zone - 1		Fixed	1.54	3/5.11	07.00
J-1069	150	Zone - 1	WWW	FIXED	1.54	374.90	90.14
J-1070	170	Zone - 1	VVVV	Fixed	1.54	3/0.03	111 02
J-1071	88	Zone - 1		Fixed	1.34	343.76	110.22
J-1072	89			Fived	1.54	343.76	114.12
J-1073	08	Zone - 1		Fixed	1.54	343.76	114.12
J-10/4	100	Z018 - 1	- WW	Fixed	1.54	345.10	106.04
J-10/5		Zone - 1	ww	Fixed	1.54	344.75	112.38
1 1070	/ <u>00</u> / <u>R</u> ∩	Zone - 1	ww	Fixed	1.54	340.36	112.65
1-1079	80	Zone - 1	WW	Fixed	1.54	340.26	112.60
	80	Zone - 1	ww	Fixed	1.54	341.24	113.03

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					Demand	Calculated	
					(Calculated)	Hydraulic	Pressure
Label	Elevation (ft)	Zone	Notes	Pattern	(gpm)	Grade (ft)	(psi)
J-1080	153	Zone - 1	W	Fixed	1.54	344.87	83.01
J-1081	212	Zone - 1	W	Fixed	1.54	344.87	57.49
J-1082	155	Zone - 1	WW	Fixed	1.54	343.66	81.63
J-1083	170	Zone - 1		Fixed	1.54	<u>343.66</u>	75.14
J-1084	142	Zone - 1	WW	Fixed	1.54	373.04	99.96
J-1085	175	Zone - 1	W	Fixed	1.54	373,54	85.90
J-1086	280	Zone - 1	WW	Fixed	1.54	333.55	23.17
J-1087	280	Zone - 2	W	Fixed	1.54	495.86	93.39
J-1088	280	Zone - 2	WW	Fixed	1.54	495.86	93.39
J-1089	270	Zone - 2	WW	Fixed	1.54	495.78	97.68
J-1090	300	Zone - 2		Fixed	1.54	495.13	84.42
J-1091	300	Zone - 2	WW	Fixed	1.54	495.13	84.42
J-1092	202	Zone - 1	WW	Fixed	1.54	373.58	74.23
J-1093	202	Zone - 1	WW	Fixed	1.54	373.63	74.26
J-1094	202	Zone - 1		Fixed	1.54	373.76	74.31
J-1095	210	Zone - 1	WW	Fixed	1.54	374.04	70.97
J-1096	300	Zone - 2	COV	Fixed	1.54	495.00	84.37
J-1097	295	Zone - 2	COV	Fixed	1.54	495.00	86.53
J-1098	330	Zone - 2	COV	Fixed	1.54	495.23	71.49
J-1099	265	Zone - 2	COV	Fixed	1.54	495.75	99.83
J-1100	260	Zone - 1	COV	Fixed	1.54	333.80	31.93
J-1101	270	Zone - 2	WW	Fixed	1.54	495.82	97.70
J-1102	259	Zone - 2	WW	Fixed	1.54	496.89	102.92
J-1103	259	Zone - 2	WW	Fixed	1.54	496.90	102.93
J-1104	259	Zone - 1	WW	Fixed	1.54	333.12	32.07
J-1105	180	Zone - 2	WW	Fixed	1.54	496.89	137.10
J-1106	175	Zone - 2	WW	Fixed	1.54	496.93	139.28
J-1107	180	Zone - 1	WW	Fixed	1.54	333.02	66.21
J-1108	180	Zone - 2	WW	Fixed	1.54	496.89	137.10
J-1109	180	Zone - 2	WW	Fixed	1.54	496.89	137.10
J-1110	286	Zone - 2	WW	Fixed	1.54	496.88	91.24
J-1111	286	Zone - 2	WW	Fixed	1.54	496.88	91.24
J-1112	180	Zone - 1	WW	Fixed	1.54	332.98	66.19
J-1113	290	Zone - 2		Fixed	1.54	496.88	89.51
J-1114	290	Zone - 2	WW	Fixed	1.54	496.88	89.51
J-1115	290	Zone - 1	ww	Fixed	1.54	332.90	18.56
J-1116	295	Zone - 2	WW	Fixed	1.54	496.88	87.34
J-1117	295	Zone - 2	WW	Fixed	1.54	496.88	87.34
J-1118	295	Zone - 1	ww	Fixed	1.54	332.78	16.35
J-1119	223	Zone - 1	ww	Fixed	1.54	332.82	47.52
J-1120	223	Zone - 2	ww	Fixed	1.54	495.93	118.09
J-1121	223	Zone - 2	ww	Fixed	1.54	495.89	118.07
J-1122	250	Zone - 2	ww	Fixed	1.54	495.84	106.36
J-1123	250	Zone - 2	ww	Fixed	1.54	495.84	106.36
J-1124	250	Zone - 2	ww	Fixed	1.54	495.84	106.36
J-1125	223	Zone - 2	ww	Fixed	1.54	496.03	118.13
J-1126	223	Zone - 2	ww	Fixed	1.54	496.01	118.12
J-1127	223	Zone - 1	ŴŴ	Fixed	1.54	332.92	47.56
J-1128	215	Zone - 2	WW	Fixed	1.54	495.87	121.52
J-1129	215	Zone - 1	ww	Fixed	1.54	333.23	51.15
J-1130	215	Zone - 2	WW	Fixed	1.54	495.87	121.52
1-1131	269	Zone - 2	WW	Fixed	1.54	495.84	98.14
J-1132	269	Zone - 2	WW	Fixed	1.54	495.84	98.14
J-1133	300	Zone - 2	WW	Fixed	1.54	495.86	84.74
J-1134	301	Zone - 2	WW	Fixed	1.54	496.98	84.79
1-1135	300	Zone - 2	WW	Fixed	1.54	496.98	85.22
1.1136	332	Zone - 2	ww	Fixed	1.54	497.08	71.42
L1137	322	Zope - 2	ww	Fixed	1.54	497.05	75.74
1,1129	250	Zone - 1	ww	Fixed	1.54	334.71	36.65
1_1120	197	Zone - 1	ŴŴ	Fixed	1.54	333.75	63.49
11140	108	Zone - 1	ww	Fixed	1.54	364.72	72.13
1.11.41	210	70ne - 1	ww	Fixed	1.54	334.38	53.81
1 271141	210						

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					Demand	Calculated	
	i				(Calculated)	Hydraulic	Pressure
Label	Elevation (ft)	Zone	Notes	Pattern	(apm)	Grade (ft)	(psi)
L1142	189	Zone - 1	ww	Fixed	1.54	364.69	76.01
1-1143	189	Zone - 1	ww	Fixed	1.54	364.67	76.01
1-1144	189	Zone - 1	WW	Fixed	1.54	364.22	75.81
L1145	189	Zone - 1	ww	Fixed	1.54	364 67	76.01
1.1146	142	Zone - 1		Fixed	1.54	372 97	99.93
1 1 1 1 7	142	7000 1		Fixed	1.54	372.49	99.72
J-114/	142	Zone - 1	<u></u>	Fixed	1.54	376.23	01 30
J-1140	100	Zone - 1	1404/	Fixed	1.54	275.07	01.09
J-1149	105	Zone - 1	1000/		1.54	260.05	00.10
J-1150	121			Fixed	1.54	350.05	99.10
J-1151	121	Zone - 1		Fixed	1.04	242.02	02.56
J-1152	130	Zone - 1		Fixed	1.04	343.93	92.00
J-1153	152	Zone - 1	VVVV	Fixed	1.34	342.00	02.55
J-1154	153	Zone - 1		Fixed	1.54	344.12	02.09
J-1155	153	Zone - 1		Fixed	1.54	343.09	03.37
J-1157	139	Zone - 1	ww	Fixed	1.54	337.31	85.80
J-1158	129	Zone - 1	WW	Fixed	1.54	388.60	112.32
J-1159	162	Zone - 1		Fixed	1.54	333.69	/4.28
J-1160	162	Zone - 1		Fixed	1.54	333.70	74.29
J-1161	171	Zone - 1		Fixed	1.54	333.68	70.38
J-1162	92	Zone - 1	WW Riverpoint Lace Works	Fixed	46.56	346.65	110.17
J-1163	78	Zone - 1	WW Soluol Chemical	Fixed	22.37	327.72	108.04
J-1164	89	Zone - 1	WW Bradford Soap Works	Fixed	27.27	343.67	110.18
J-1165	250	Zone - 2	WW WWW Realty Assoc.	Fixed	21.60	494.93	105.97
J-1166	255	Zone - 1	ww	Fixed	1.54	333.90	34.14
J-1167	188	Zone - 1	Ŵ	Fixed	1.67	384.12	84.85
J-1168	190	Zone - 1	ww	Fixed	1.67	384.12	83.99
J-1169	170	Zone - 1	ww	Fixed	1.04	383.85	92.52
J-1170	167	Zone - 1	ŴŴ	Fixed	1.04	383.85	93.82
J-1171	167	Zone - 1	WW	Fixed	1.04	383.85	93.82
J-1172	170	Zone - 1	ww	Fixed	1.04	383.85	92.52
.1-1174	192	Zone - 1	WW	Fixed	0.00	383.58	82.89
1_1175	186	Zone - 1	ww	Fixed	6.25	327.41	61.18
L1176	195	Zone - 1	WW	Fixed	6.25	327.42	57.29
11177	100	Zone 1	WW	Fixed	6.25	327.42	59.45
11179	319	Zone - 2	WW	Fixed	0.00	494.94	76.56
1 1170	206	Zone 2		Fixed	2.87	494 94	81.75
J-11/9 (4490	300	Zone - 2		Fixed	2.87	494.94	83.48
J-1100	302	Zone 2	1444	Fixed	2.07	494 94	90.40
J-1101	200			Fixed	2.07	494 94	92.13
J-1182	282		<u> </u>	Fived	2.07	494 94	92.13
J-1185	202		<u> </u>	Eivad	2.07	404.04	89.97
J-1184	287	Zone - Z	¥¥¥¥	Eived	2.01	221 07	25.05
J-1185	2/2	Zone - 2		TIXED	0.00	337.00	25.00
J-1186	2/2	Zone - 1		Fixed	0.00	334.00	20.00
J-1187	262	Zone - 2			0.00		102.21
J-1188	262	Zone - 2		Fixed	0.00	221 07	30.27
J-1189	262	20ne - 2		Fixed	0.00	409.22	102.20
J-1190	262	Zone - 2		rixed	0.00	430.22	102.20
J-1192	262	Zone - 2		rixed	0.00	490.20	102.18
J-1193	250	Zone - 2			0.00	434.83	26.00
J-1194	250	Zone - 1	WW	- Fixed	0.00	333.38	41.07
J-1195	238	Zone - 1		- Fixed	0.00	333.39	41.27
J-1196	238	Zone - 2	W	Fixed	0.00	494.93	44.07
J-1197	238	Zone - 1	WW	Fixed	0.00	333.39	41.27
J-1198	238	Zone - 2		<u> </u>	0.00	494.93	EE 24
J-1199	200	Zone - 1		Fixed	1.54	327.84	50.00
J-1200	210	Zone - 1		Fixed	0.00	327.84	50.98
J-1201	188	Zone - 1		Fixed	0.00	327.84	60.50
J-1202	220	Zone - 1		Fixed	0.00	327.84	46.66
J-1203	220	Zone - 1		Fixed	0.00	327.84	46.66
J-1204	200	Zone - 1		Fixed	0.00	327.84	55.31
J-1205	255	Zone - 2		Fixed	0.00	494.93	103.81
1-1206	275	Zone - 2	WW	Fixed	0.00	494.93	95.15

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					Demand	Calculated	
					(Calculated)	Hydraulic	Pressure
Label	Elevation (ft)	Zone	Notes	Pattern	(gpm)	Grade (ft)	(psi)
J-1207	285	Zone - 2		Fixed	0.00	494.93	90.83
J-1208	260	Zone - 2	WW	Fixed	0.00	494.93	101.04
J-1209	255	Zone - 2	WW	Fixed	0.00	494.93	103.61
J-1210	285	Zone - 2	VVVV	Fixed	0.00	494.93	105.07
<u>J-1211</u>	250	Zone · 2	VVVV	Fixed	0.00	494.93	105.97
J-1212	250	Zone - 2	VVVV	Fixed	0.00	494.93 227.94	55 31
J-1213	200	Zone - 1		Fixed	0.00	405.02	
J-1214	287	Zone - Z	1404/	Fixed	0.00	490.02	76.56
J-1210	318	Zone - Z	1000/	Fixed	1 54	336.53	78.54
J-1210	135	Zone - 1		Fixed	0.00	496.96	94.73
J-1210	270	Zone - 2	WW	Fixed	0.00	496.96	94.73
1-1220	152	Zone - 1	ww	Fixed	0.00	341.65	82.05
1-1220	147		ww	Fixed	0.00	341.65	84.43
L-1227	147	Zone - 1	ww	Fixed	3.75	341.72	84.46
L1222	147	Zone - 1	WW	Fixed	3.75	341.81	84.50
1-1220	270	Zone - 2	ww	Fixed	0.00	496.96	98.20
1-1226	148	Zone - 1	WW	Fixed	0.00	373.42	97.53
J-1227	161	Zone - 1	ww	Fixed	0.00	373.42	91.90
J-1228	157	Zone - 1	WW	Fixed	0.00	373.42	93.63
.1-1229	194	Zone - 1	WW	Fixed	0.00	335.72	61.31
1-1230	194	Zone - 1	WW	Fixed	0.00	335.72	61.32
J-1231	194	Zone - 1	WW	Fixed	0.00	335.72	61.32
J-1232	194	Zone - 1	WW	Fixed	0.00	335.73	61.32
J-1233	197	Zone - 1		Fixed	0.00	335.73	60.02
J-1234	202	Zone - 1	ww	Fixed	0.00	335.73	57.86
J-1235	202	Zone - 1		Fixed	0.00	335.73	57.86
J-1236	194	Zone - 1	ww	Fixed	0.00	335.72	61.31
J-1237	225	Zone - 1		Fixed	0.00	335.74	47.91
J-1238	175	Zone - 1		Fixed	1.54	373.55	85.90
J-1239	130	Zone - 1	WW	Fixed	0.00	343.93	92.56
J-1240	230	Zone - 2		Fixed	0.00	496.96	115.50
J-1241	230	Zone - 2	WW	Fixed	2.78	496.96	115.50
J-1242	140	Zone - 1	ww	Fixed	0.00	389.90	108.12
J-1243	192	Zone - 1		Fixed	0.00	383.85	83.00
J-2000	130	Zone - 1	WAR	Fixed	1.76	331.07	86.99
J-2002	120	Zone - 1		Fixed	1.76	330.79	91.20
J-2003	117	Zone - 1	WAR	Fixed	1.76	330.65	92.44
J-2004	117	Zone - 1	WAR	Fixed	1./6	330.65	92.44
J-2005	100	Zone - 1	WAR	Fixed	1.76	330.30	99.04
J-2006	143	Zone - 1	WAR	Fixed	1./6	330.30	01.04 00 FF
J-2007	125	Zone - 1	WAR	FIXed	1./0	329.00	00.00
J-2008	129	Zone - 1	WAR	F1X60	1.70	323.00	85.51
J-2009	132	Zone - 1	WAR	Fixed	1.70	329.00	85.51
J-2010	132	Zone - 1		Fixed	1.70	329.64	82.05
J-2011	140	20ne - 1		Fivad	1 76	329.64	86.38
J-2012	130	Zone - 1		Fived	1 76	329.64	82.05
J-2013	140			Fixed	1.76	329.64	82.91
J-2014	138	Z0/10 - 1	WAR	Fixed	1.76	329.64	81.18
J-2015	142	Zone - 1		Fixed	1.76	329.64	82.05
J-2016	140			Fixed	1.76	329.49	93.23
J-2017	114	7000-1	WAR	Fixed	1.76	329.49	92.37
J-2018		Z0118 - 1	WAR	Fixed	1.76	329.07	106.03
J-2019	94	Zone - 1	WAR	Fixed	1.76	328.96	106.85
J-2020	<u>02</u>	Zone - 1	WAR	Fixed	1.76	329.07	105.17
1.2021	00	70na - 1	WAR	Fixed	1.76	328.78	116.29
1-2022	52	Zone - 1	WAR	Fixed	1.76	327.11	118.60
1_2024	52	Zone - 1	WAR	Fixed	1.76	326.95	118.96
1-2025	50	Zone - 1	WAR	Fixed	1.76	326.95	119.82
1-2026	73	Zone - 1	WAR	Fixed	1.76	326.84	109.83
J-2027	123	Zone - 1	WAR	Fixed	1.76	326.67	88.12
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Г	1	1	···· 1			Demand	Calculated	
ļ						(Calculated)	Hydraulic	Pressure
	1 ahai	Elevation (ft)	Zone	Notes	Pattern	(apm)	Grade (ft)	(osi)
-	1-2028	119	Zone - 1	WAR	Fixed	1.76	326.62	89.83
-	1-2029	100	Zone - 1	WAR	Fixed	1.76	326.61	98.04
-	1-2030	106	Zone - 1	WAR	Fixed	1.76	326.61	95.45
-	1-2030	55	Zone - 1	WAR	Fixed	1 76	326.61	117.51
-	1-2031	45	Zone - 1	WAR	Fixed	1.76	326.61	121.84
F	1-2033	53	Zone 1	WAR	Fixed	1.76	326.61	118.38
	1-2034	55	Zone - 1	WAR	Fixed	1.76	326.98	117.67
	1-2035	60	Zone - 1	WAR	Fixed	1.76	326.98	115.51
-	1-2036	119	Zone - 1	WAR	Fixed	1.76	326.71	89.87
-	1-2037	183	Zone - 1	WAR	Fixed	1.76	326.70	62.17
-	1-2038	183	Zone - 1	WAR	Fixed	1.76	326.70	62.17
-	1-2039	187	Zone - 1	WAR	Fixed	1.76	326.70	60.44
	1-2040	190	Zone - 1	WAR	Fixed	1.76	326.70	59.14
	.1-2041	183	Zone - 1	WAR	Fixed	1.76	326.70	62.17
F	1-2042	184	Zone - 1	WAR	Fixed	1.76	326.67	61.73
-	1-2043	171	Zone - 1	WAR	Fixed	1.76	326.63	67.33
-	1-2044	143	Zone - 1	WAR	Fixed	1.76	326.62	79.44
ŀ	J-2045	131	Zone - 1	WAR	Fixed	1.76	326.61	84.63
F	J-2046	170	Zone - 1	WAR	Fixed	1.76	326.62	67.76
F	J-2047	120	Zone - 1	WAR	Fixed	1.76	326.61	89.39
ŀ	J-2048	100	Zone - 1	WAR	Fixed	1.76	326.61	98.04
F	J-2049	130	Zone - 1	WAR	Fixed	1.76	326.61	85.06
F	J-2050	181	Zone - 1	WAR	Fixed	1.76	326.67	63.02
F	.1-2051	183	Zone - 1	WAR	Fixed	1.76	326.67	62.16
	J-2052	178	Zone - 1	WAR	Fixed	1.76	326.60	64.29
-	J-2053	161	Zone - 1	WAR	Fixed	1.76	326.52	71.61
	J-2054	135	Zone - 1	WAR	Fixed	1.76	326.60	82.90
L L	J-2055	127	Zone - 1	WAR	Fixed	1.76	326.60	86.36
L L	J-2056	171	Zone - 1	WAR	Fixed	1.76	326.46	67.26
Ē	J-2057	165	Zone - 1	WAR	Fixed	1.76	326.46	69.85
F	J-2058	140	Zone - 1	WAR	Fixed	1.76	326.43	80.66
F	J-2059	145	Zone - 1	WAR	Fixed	1.76	326.43	78.49
-	J-2060	168	Zone - 1	WAR	Fixed	1.76	326.42	68.54
ŀ	J-2061	161	Zone - 1	WAR	Fixed	1.76	326.42	71.57
t	J-2062	160	Zone - 1	WAR	Fixed	1.76	326.42	72.00
Ī	J-2063	133	Zone - 1	WAR	Fixed	1.76	326.41	83.68
ľ	J-2064	159	Zone - 1	WAR	Fixed	1.76	326.41	72.43
ľ	J-2065	130	Zone - 1	WAR	Fixed	1.76	326.41	84.98
	J-2066	130	Zone - 1	WAR	Fixed	1.76	326.40	84.97
ľ	J-2067	130	Zone - 1	WAR	Fixed	1.76	326.41	84.98
ł	J-2068	147	Zone - 1	WAR	Fixed	1.76	326.41	77.62
	J-2069	154	Zone - 1	WAR	Fixed	1.76	326.37	74.58
	J-2070	140	Zone - 1	WAR	Fixed	1.76	326.36	80.63
1	J-2071	132	Zone - 1	WAR	Fixed	1.76	326.31	84.07
ľ	J-2072	120	Zone - 1	WAR	Fixed	1.76	326.31	89.26
Į	J-2073	155	Zone - 1	WAR	Fixed	1.76	326.50	/4.20
ļ	J-2074	153	Zone - 1	WAR	Fixed	1.76	326.66	/5.14
	J-2075	165	Zone - 1	WAR	Fixed	1.76	326.70	69.96
	J-2076	165	Zone - 1	WAR	Fixed	1.76	326.68	09.95
Í	J-2077	151	Zone - 1	WAR	Fixed	1.76	326.68	/6.01
1	J-2078	164	Zone - 1	WAR	Fixed	1.76	326.68	70.38
	J-2079	168	Zone - 1	WAR	Fixed	1.76	326.67	00.00
	J-2080	170	Zone - 1	WAR	Fixed	1.76	320.07	01.10
	J-2081	177	Zone - 1	WAR	Fixed	1.70	320.0/	60 70
	J-2082	168	Zone - 1	WAR	Fixed	1.70	320.84	70.12
	J-2083	160	Zone - 1	WAR	- Fixed	1./0	320.04	71 70
	J-2084	162	Zone - 1	WAR	Fixed	4 76	327.13	66.67
	J-2085	173	Zone - 1		Fixed	1.70	327.10	68.84
	J-2086	168	Zone - 1		Fixed	4 70	326 47	75 02
1	<u>J-2087</u>	151	Zone - 1		Eived	1.70	326.64	76 42
	J-2088	150	Zone - 1		Fixed	1.70	326.56	71.20
	J-2089	162		VVAR		1.10	1 02.0.00	

					Demand (Calculated)	Calculated Hydraulic	Pressure
Label	Elevation (ft)	Zone	Notes	Pattern	(gpm)	Grade (ft)	(psi)
J-2090	165	Zone - 1	WAR	Fixed	1.76	326.49	69.87
J-2091	153	Zone - 1	WAR	Fixed	1.76	326.47	75.05
J-2092	205	Zone - 1	WAR	Fixed	1.76	326.27	52.47
J-2093	131	Zone - 1	WAR	Fixed	1.76	326.45	84.56
J-2094	152	Zone - 1	WAR	Fixed	1.76	326.65	75.56
J-2095	157	Zone - 1	WAR	Fixed	1.76	326.66	73.40
J-2096	152	Zone - 1	WAR	Fixed	1.76	326.66	75.57
J-2097	153	Zone - 1	WAR	Fixed	1.76	326.65	75.13
J-2098	158	Zone - 1	WAR	Fixed	1.76	326.65	72.97
J-2099	161	Zone - 1	WAR	Fixed	1.76	327.73	72.14
J-2100	153	Zone - 1	WAR	Fixed	1.76	326.66	75.13
J-2101	156	Zone - 1	WAR	Fixed	1.76	326.66	73.84
J-2102	157	Zone - 1	WAR	Fixed	1.76	326.66	73.40
J-2103	157	Zone - 1	WAR	Fixed	1.76	326.66	73.40
J-2104	140	Zone - 1	WAR	Fixed	1.76	326.46	80.67
J-2105	156	Zone - 1	WAR	Fixed	1.76	326.50	73.77
J-2106	156	Zone - 1	WAR	Fixed	1.76	326.50	73.77
J-2107	157	Zone - 1	WAR	Fixed	1.76	326.48	73.33
J-2108	160	Zone - 1	WAR	Fixed	1.76	326.48	72.03
J-2109	150	Zone - 1	WAR	Fixed	1.76	326.47	76.35
J-2110	150	Zone - 1	WAR	Fixed	1.76	326.47	76.35
J-2111	140	Zone - 1	WAR	Fixed	1.76	326.47	80.68
J-2112	140	Zone - 1	WAR	Fixed	1.76	326.47	80.68
J-2113	150	Zone - 1	WAR	Fixed	1.76	326.37	76.30
J-2114	156	Zone - 1	WAR	Fixed	1.76	326.37	73.71
J-2115	153	Zone - 1	WAR	Fixed	1.76	326.37	75.01
J-2116	154	Zone - 1	WAR	Fixed	1.76	326.37	74.57
J-2117	140	Zone - 1	WAR	Fixed	1.76	326.37	80.63
J-2118	137	Zone - 3	WAR	Fixed	1.76	326.27	81.89
J-2119	110	Zone - 3	WAR	Fixed	1.76	267.99	68.35
J-2120	110	Zone - 1	WAR	Fixed	1.76	267.89	68.31
J-2121	52	Zone - 3	WAR	Fixed	1.76	267.79	93.36
J-2122	160	Zone - 1	WAR	Fixed	1.76	326.26	71.93
J-2123	218	Zone - 1	WAR	Fixed	1.76	326.27	46.84
J-2124	184	Zone - 1	WAR	Fixed	1.76	326.27	61.55
J-2125	174	Zone - 1	WAR	Fixed	1.76	326.26	65.88
J-2126	171	Zone - 1	WAR	Fixed	1.76	326.26	67.18
J-2127	170	Zone - 1	WAR	Fixed	1.76	326.25	67.60
J-2128	178	Zone - 1	WAR	Fixed	1.76	326.26	64.14
1-2120	166	Zone - 1	WAR	Fixed	1.76	326.26	69.34
1-2130	178	Zone - 1	WAR	Fixed	1.76	326.26	64.14
1.2124	160	Zone - 1	WAR	Fixed	1.76	326.26	68.04
1_2122	200	Zone - 1	WAR	Fixed	1.76	326.25	54.62
1-2132	161	Zone - 1	WAR	Fixed	1.76	326.25	71.50
1.2134	170	Zone - 1	WAR	Fixed	1.76	326.25	67.60
1.0125	169	Zone - 1	WAR	Fixed	1.76	326.25	68.04
1,2128	100	Zone - 1	WAR	Fixed	1.76	326.27	58.96
(_2127	215	Zone - 1	WAR	Fixed	1.76	326.27	48.14
1,2130	213	700-1	WAR	Fixed	1.76	326.27	51.17
1,2120	200	Zone - 1	WAR	Fixed	1.76	326.27	48.14
1-2140	194	700e - 1	WAR	Fixed	1.76	326.27	61.55
1.2144	218	7000-1	WAR	Fixed	1.76	326.27	46.84
1,2141	210	700-1	WAR	Fixed	1.76	326.27	47.28
L21/2	210	Zone - 1	WAR	Fixed	1.76	326.28	50.31
1-2143	210	Zone - 1	WAR	Fixed	1.76	326.27	49.44
J-2144	212	Zone - 1	WAR	Fixed	1.76	326.27	47.28
L 2140	211	7000-1	WAR	Fixed	1.76	326.27	45.55
J-2140	016	7000-1	WAR	Fixed	1.76	326.27	48.14
1.2147	162	70ne - 1	WAR	Fixed	1.76	326.29	74.97
J-2148	100	Zone - 1	WAR	Fixed	1.76	326.28	69.78
J-2148	100	700-1	WAR	Fixed	1.76	326.32	89.27
J-210L		Zone - 1	WAR	Fixed	1.76	326.30	88.82
J-2151			t				

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						Demand	Calculated	
				ł		(Calculated)	Hydraulic	Pressure
	abel	Elevation (ff)	Zone	Notes	Pattern	(gpm)	Grade (ft)	(psi)
	2152	174	Zone - 1	WAR	Fixed	1.76	326.28	65.89
1-2	2153	217	Zone - 1	WAR	Fixed	1.76	326.28	47.28
	2154	162	Zone - 1	WAR	Fixed	1.76	326.28	71.08
1-2	2155	212	Zone - 1	WAR	Fixed	1.76	326.28	49.44
	2155	169	Zone - 1	WAR	Fixed	1 76	326.28	68.48
J-2	1150	210	Z000 1		Fixed	1.76	326.28	50.31
J-4	2137	120	Zone - 1		Fixed	1.76	326.28	81.46
<u> </u>	2130	130			Fived	1.76	326.20	81.46
	2109	130	Zone - 1		Eived	1.70	326.20	89.25
J-2	2100	120	Zone - 1	WAR	Eived	1.70	326.29	84.92
<u> </u>	2101	130	Zone - 1		Eived	1.70	326.28	46.85
J-2	2102	210	Zone - 1		Fixed	1.70	325.96	44.98
	2103	222	Zone - 1	WAD	Fixed	1.70	326.20	79.30
<u> </u>	2104	143	Zone - 1		Fixed	1.70	326.29	73.24
	2105	157	Zone • 1		Eivad	1.70	326.47	73.32
	2166	157	Zone - 1			1.70	326.47	73.32
1	2167	157	Zone - 1		Fixed	1.70	326.47	85.00
	2168	130	20ne - 1			1.10	320.47	85.00
	2169	130	20ne - 1	WAR NALE	Fixed	1.70	320.47	78 04
	2170	144	Zone - 1		Fixed	1.10	226 40	81 10
<u> </u>	2171	139	Zone - 1	WAR	Fixed	1.70	320.40	91.07
<u>J-</u>	2172	137	Zone - 1	WAK	Fixed	1.70	320.40	64.30
	2173	120	Zone - 3	WAR	Fixed	1.70	200.70	72.00
	2174	98	Zone - 3	WAR	Fixed	1.76	208.70	73.00
<u></u>	2175	100	Zone - 3	WAR	Fixed	1.70	200.70	73.01
J-;	2176	117	Zone - 3	WAR	Fixed	1.76	208.70	05.00
J-:	2177	75	Zone - 3	WAR	Fixeo	1.76	268.77	03.03
	2178	95	Zone - 3	WAR	Fixed	1.76	268.76	70.18
J-:	<u>2179</u>	102	Zone - 3	WAR	Fixed	1.76	268.76	72.15
	2180	85	Zone - 3	WAR	Fixed	1.76	268.76	79.50
J	2181	89	Zone - 3	WAR	Fixed	1./6	268.76	11.11
J-	2182	89	Zone - 3	WAR	Fixed	1.76	268.76	11.11
J-	2183	130	Zone - 3	WAR	Fixed	1.76	268.76	60.03
J-	2184	170	Zone - 3	WAR	Fixed	1.76	268.75	42.73
J-	2185	113	Zone - 3	WAR	Fixed	1.76	268.75	67.39
J-	2186	115	Zone - 3	WAR	Fixed	1.76	268.76	66.52
J	2187	76	Zone - 3	WAR	Fixed	1.76	268.76	83.40
J-	2189	172	Zone - 1	WAR	Fixed	1.76	326.29	66.75
j-	2190	200	Zone - 1	WAR	Fixed	1.76	326.28	54.64
J-	2191	221	Zone - 1	WAR	Fixed	1.76	326.27	45.55
J-	2192	210	Zone - 1	WAR	Fixed	1.76	326.27	50.30
J	2193	117	Zone - 1	WAR	Fixed	1.76	335.57	94.56
J	2194	171	Zone - 1	WAR	Fixed	1.76	335.57	71.20
J	2195	137	Zone - 1	WAR	Fixed	1.76	335.57	85.91
J.	2196	115	Zone - 1	WAR	Fixed	1.76	335.57	95.43
. ال	-2197	170	Zone - 1	WAR	Fixed	1.76	335.57	71.63
J	-2198	187	Zone - 1	WAR	Fixed	1.76	335.57	64.28
J	2199	155	Zone - 1	WAR	Fixed	1.76	335.57	78.12
	-2200	222	Zone - 1	WAR	Fixed	1.76	326.27	45.11
J	-2201	218	Zone - 1	WAR	Fixed	1.76	326.27	46.84
, j	-2203	40	Zone - 1	WAR	Fixed	1.76	326.74	124.06
<u> </u>	-2205	50	Zone - 1	WAR	Fixed	1.76	327.02	119.85
Ţ	-2206	35	Zone - 1	WAR	Fixed	1.76	327.02	126.34
L.	-2207	56	Zone - 1	WAR	Fixed	1.76	327.08	117.29
1	-2208	66	Zone - 1	WAR	Fixed	1.76	327.03	112.94
<u> </u>	-2209	63	Zone - 1	WAR	Fixed	1.76	327.04	114.24
	-2210	51	Zone - 1	WAR	Fixed	1.76	327.04	119.43
<u> </u>	-2211	38	Zone - 1	WAR	Fixed	1.76	327.04	125.05
	-2212	63	Zone - 1	WAR	Fixed	1.76	327.03	114.23
L.	2213	40	Zone 1	WAR	Fixed	1.76	327.03	124.19
⊢ĭ	2214	35	Zone 1	WAR	Fixed	1.76	327.03	126.35
	-2215	63	Zone - 1	WAR	Fixed	1.76	327.04	114.24
	-2216	40	Zone - 1	WAR	Fixed	1.76	327.04	124.19
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		7	N -4		Demand (Calculated)	Calculated Hydraulic	Pressure
Laber	Elevation $(\pi)$	Zone	Notes	Pattern	(gpm)		
J-2217	63	Zone - 1	WAR	Fixed	1.76	327.05	114.24
J-2218	35	Zone - 1	WAR	Fixed	1.76	327.05	126.36
J-2219	5/	Zone - 1	WAR	Fixed	1.76	327.79	117.16
J-2221	90	Zone - 1	WAR	Fixed	1.76	335.91	106.40
J-2222	96	Zone - 1	WAR	Fixed	1.76	327.92	100.34
J-2223	103	Zone - 1	WAR	Fixed	1.76	328.14	97.41
J-2224	72	Zone - 1	WAR	Fixed	1.76	328.12	110.81
J-2225	87	Zone - 1	WAR	Fixed	1.76	328.12	104.32
J-2226	80	Zone - 1	WAR	Fixed	1.76	328.05	107.32
J-2227	80	Zone - 1	WAR	Fixed	1.76	328.05	107.32
J-2228	79	Zone - 1	WAR	Fixed	1.76	327.66	107.58
J-2229	96	Zone - 1	WAR	Fixed	1.76	327.95	100.35
J-2231	97	Zone - 1	WAR	Fixed	1.76	327.92	99.91
J-2232	84	Zone - 1	WAR	Fixed	1.76	327.90	105.52
J-2233	89	Zone - 1	WAR	Fixed	1.76	327.91	103.37
J-2234	88	Zone - 1	WAR	Fixed	1.76	327.91	103.80
J-2235	88	Zone - 1	WAR	Fixed	1.76	327.91	103.80
J-2236	88	Zone - 1	WAR	Fixed	1.76	327.91	103.80
J-2237	102	Zone - 1	WAR	Fixed	1.76	328.05	97.80
J-2239	104	Zone - 1	WAR	Fixed	1.76	328.05	96.93
1-2240	115	Zone - 1	WAR	Fixed	1.76	327.98	92.14
1-2241	97	Zone - 1	WAR	Fixed	1.76	327.98	99.93
L2247	147	Zone - 3	WAR	Fixed	1 76	267.89	52.30
1 2242	150	Z000-3	WAR	Fixed	1 76	267.85	47.09
1.2243	116	Zone - 3	WAR	Fived	1.76	267.84	65 70
J-2244	110	Zone 2		Eived	1.70	267.85	64.83
J-2245	118	Zone - 3		Fixed	1.70	267.85	72.62
J-2246	100	Zone - 3		Fixed	4.76	207.00	12.02
J-224/	164	Zone - 3	VVAR	Fixed	1.70	207.00	25.41
<u>J-2248</u>	186	Zone - 3	WAR	Fixed	1.70	207.00	30.41
J-2249	187	Zone - 3	WAR	Fixed	1.70	207.00	34.90
J-2250	184	Zone - 3	WAR	Fixed	1.76	207.88	36.29
J-2251	174	Zone - 3	WAR	Fixed	1.76	267.85	40.60
J-2252	145	Zone - 3	WAR	Fixed	1.76	267.81	53.13
J-2253	53	Zone - 3	WAR	Fixed	1.76	267.80	92.93
J-2254	55	Zone - 3	WAR	Fixed	1.76	267.79	92.07
J-2255	85	Zone - 3	WAR	Fixed	1.76	267.79	79.09
J-2256	130	Zone - 3	WAR	Fixed	1.76	267.79	59.62
J-2257	96	Zone - 3	WAR	Fixed	1.76	267.79	74.33
J-2258	134	Zone - 3	WAR	Fixed	1.76	266.90	57.50
J-2259	55	Zone - 3	WAR	Fixed	1.76	267.79	92.07
J-2260	72	Zone - 3	WAR	Fixed	1.76	267.79	84.71
J-2261	103	Zone - 3	WAR	Fixed	1.76	267.82	71.31
J-2262	92	Zone - 3	WAR	Fixed	1.76	267.81	76.06
J-2263	155	Zone - 3	WAR	Fixed	1.76	267.82	48.81
J-2264	116	Zone - 3	WAR	Fixed	1.76	267.79	65.67
J-2265	72	Zone - 3	WAR	Fixed	1.76	267.78	84.71
J-2266	155	Zone - 3	WAR	Fixed	1.76	266.40	48.20
1.2267	20	Zone - 3	WAR	Fixed	1.76	267.79	107.21
.1.2268	20	Zone - 3	WAR	Fixed	1.76	267.79	107.21
L2260	<u></u> <u></u> <u></u>	Zone - 3	WAR	Fixed	1.76	267.80	95.10
1-2200	20	700-3	WAR	Fixed	1.76	267.80	99.42
L2274	20	Zone - 3	WAR	Fixed	1.76	267.80	102.02
12270	27	Zone - 3	WAR	Fixed	1.76	267.80	99.85
J-22/2		7000 3	WAD	Fixed	1 76	267.80	102.02
J-22/3	32			Fived	1 76	267.80	104.61
J-22/4	26	2018 - 3		Eivad	1 78	267.00	96.83
J-2275	44	Zone - 3		Fixed	1.70	267.00	90.77
J-2276	58	Zone - 3		Eivod	1.70	267.00	90.34
J-2277	59	Zone - 3		Fixed	4 70	201.00	02 27
J-2278	52	Zone - 3		Fixed	1.70	207.00	02.07
J-2279	55	Zone - 3	WAR	DBXIT	1./0	201.00	01 20
J-2280	57	Zone - 3	WAR	rixed	1.70	201.00	07 00
J-2281	205	Zone - 3	WAR	Fixed	1.76	207.08	21.20

					Demand	Calculated	
					(Calculated)	Hydraulic	Pressure
Label	Elevation (ft)	Zone	Notes	Pattern	(gpm)	Grade (ft)	(psi)
J-2282	198	Zone - 3	WAR	Fixed	1.76	267.85	30.22
J-2283	175	Zone - 3	WAR	Fixed	1.76	267.83	40.16
J-2284	155	Zone - 3	WAR	Fixed	1.76	267.82	48.81
J-2285	189	Zone - 3	WAR	Fixed	1.76	267.84	34.11
J-2286	192	Zone - 3	WAR	Fixed	1.76	267.84	32.81
J-2287	180	Zone - 3	WAR	Fixed	1.76	266.97	37.63
J-2288	167	Zone - 3	WAR	Fixed	1.76	267.81	43.61
J-2289	138	Zone - 3	WAR	Fixed	1.76	267.80	56.16
J-2290	134	Zone - 3	WAR	Fixed	1.76	267.80	57.89
J-2291	65	Zone - 3	WAR	Fixed	1.76	267.80	87.74
J-2292	171	Zone - 3	WAR	Fixed	1.76	267.80	41.88
J-2293	162	Zone - 3	WAR	Fixed	1.76	267.80	45.78
1-2294	152	Zone - 3	WAR	Fixed	1.76	267.47	49.96
1.2295	161	Zope - 1	WAR	Fixed	1.76	327.73	72.14
1-2206	78	Z008 - 3	WAR	Fixed	1.76	267,80	82.12
1-2207	82	Zone 3	WAR	Fixed	1.76	267.80	80.39
1.2208	97	Zope - 3	WAR	Fixed	1.76	267.80	78.22
1-2230	72	7000-2	WAR	Fixed	1.76	267.80	84.71
1.2200	1 <u>2</u> FA	7000-3	WAR	Fixed	1.76	267.80	92.50
J-2300	<u>04</u>	7000 3	WAP	Fixed	1.76	267.77	96.38
J-2301	40	20118-3		Fixed	1 76	267.76	91.62
J-2302	50	Zone - 3		Fixed	1.76	267.76	100 27
<u>J-2303</u>	30	Zone - 3		Fixed	1.70	267.70	100.27
J-2304	36	Zone - 3	VVAR VVAR	Fixed	1.70	207.79	100.23
J-2305	36	Zone - 3		Fixed	1.70	207.73	95.07
J-2306	48	Zone - 3	WAR	Pixeo	1.70	207.75	07.66
J-2307	42	Zone - 3	WAR	Fixed	1.70	207.71	97.00
J-2308	75	Zone - 3	WAR	Dexin	1./0	207.80	00.42
J-2310	45	Zone - 3	WAR	FIXED	1./0	207.79	50.39
J-2311	49	Zone - 3	WAR	Fixed	1.76	267.79	94.00
J-2312	60	Zone - 3	WAR	Fixed	1.76	267.79	89.90
J-2313	84	Zone - 3	WAR	Fixed	1.76	267.80	/9.52
J-2314	168	Zone - 1	WAR	Fixed	1.76	327.73	69.11
J-2315	170	Zone - 1	WAR	Fixed	1.76	327.88	68.31
J-2316	171	Zone - 1	WAR	Fixed	1.76	327.88	67.87
J-2317	205	Zone - 1	WAR	Fixed	1.76	329.59	53.91
J-2318	203	Zone - 1	WAR	Fixed	1.76	329.59	54.77
1-2319	200	Zone - 1	WAR	Fixed	1.76	329.59	56.07
1-2320	210	Zone - 1	WAR	Fixed	1.76	329.59	51.74
1.2221	203	Zone - 1	WAR	Fixed	1.76	329.59	54.77
1-2321	203	Zone - 1	WAR	Fixed	1.76	329.59	52.61
J-2322	200	7000 1	WAR	Fixed	1.76	329.59	56.07
J-2323	200	7000 1	WAD	Fixed	1 76	329.59	53.04
J-2324	207			Fixed	1 76	329.65	51.77
J-2325	210			Fixed	1 76	329.65	37.49
J-2326	243			Fixed	1 76	329.65	43.11
J-2327	230	Zone - 1		Eived	1 76	320.65	40.08
J-2328	237	2one - 1		Fixed	1.70	320.00	51.91
J-2329	210	Zone - 1		Fixed	1 78	320.09	51 01
J-2330	210	Zone - 1	WAR	Fixed	1.70	320.00	30.36
J-2331	240	Zone - 1	WAR	rixed	1.70	220.07	20.30
J-2332	240	Zone - 1	WAR	FIX60	1.70	330.87	30.61
J-2333	240	Zone - 1	WAR	rixed	1.70	331.00	39.01
J-2334	245	Zone - 1	WAR	Fixed	1./6	333.24	
J-2335	242	Zone - 1	WAR	Fixed	1.76	333.24	39.47
J-2336	265	Zone - 1	WAR	Fixed	1.76	333.61	29.00
J-2337	245	Zone - 2	WAR	Fixed	1.76	496.89	108.98
J-2339	245	Zone - 1	WAR	Fixed	1.76	333.61	38.34
J-2340	245	Zone - 1	WAR	Fixed	1.76	333.61	38.34
J-2341	180	Zone - 1	WAR	Fixed	1.76	335.05	67.08
J-2342	180	Zone - 1	WAR	Fixed	1.76	335.07	67.09
J-2343	180	Zone - 1	WAR	Fixed	1.76	335.11	67.11
J-2344	180	Zone - 1	WAR	Fixed	1.76	334.86	67.00
1-2345	130	Zone - 1	WAR	Fixed	1.76	336.03	89.14

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					Demand	Calculated		
					(Calculated)	Hydraulic	Pressure	
Label	Elevation (ft)	Zone	Notes	Pattern	(gpm)	Grade (ft)	(psi)	
J-2346	170	Zone - 1	WAR	Fixed	1.76	333.47	70.73	
J-2347	170	Zone - 1	WAR	Fixed	1.70	222 65	97.69	
J-2348	130	Zone - 1	WAR NAP	Fixed	1.70	332.00	89.67	
J-2349	125	Zone - 1	WAR WAR	Cived	1.76	332.23	85.34	
J-2350	135			Fixed	1.76	332.24	70.19	
J-2351	170	Zone - 1	WAR	Fixed	1.76	332.24	83.17	
J-2302	140	Z0118 - 1	WAR	Fixed	1.76	332.23	77.98	
122505	160	Zone - 1	WAR	Fixed	1.76	332.23	74.52	
1.2355	170	Zone - 1	WAR	Fixed	1.76	332.23	70.19	
1-2356	230	Zone - 1	WAR	Fixed	1.76	332.23	44.23	
1.2357	230		WAR	Fixed	1.76	332.23	44.23	
1-2358	230	Zone - 1	WAR	Fixed	1.76	332.23	39.90	
1-2350	230	Zone - 1	WAR	Fixed	1.76	332.23	44.23	
1.2360	185	Zone - 1	WAR	Fixed	1.76	332.23	63.70	
J-2361	38	Zone - 1	WAR	Fixed	1.76	326.74	124.92	
1-2362	35	Zone - 1	WAR	Fixed	1.76	326.74	126.22	
J-2363	30	Zone - 1	WAR	Fixed	1.76	326.74	128.39	
J-2364	35	Zone - 1	WAR	Fixed	1.76	326.74	126.22	
J-2365	35	Zone - 1	WAR	Fixed	1.76	326.74	126.22	
J-2366	32	Zone - 1	WAR	Fixed	1.76	326.74	127.52	
J-2367	29	Zone - 3	WAR	Fixed	1.76	267.79	103.31	
J-2368	25	Zone - 3	WAR	Fixed	1.76	267.79	105.04	
J-2370	31	Zone - 3	WAR	Fixed	1.76	267.79	102.45	
J-2371	25	Zone - 3	WAR	Fixed	1.76	267.79	105.04	
J-2372	30	Zone - 3	WAR	Fixed	1.76	267.79	102.88	
J-2373	30	Zone - 3	WAR	Fixed	1.76	267.79	102.88	
J-2374	32	Zone - 3	WAR	Fixed	1.76	267.79	102.02	
J-2375	32	Zone - 3	WAR	Fixed	1.76	267.78	102.01	
J-2376	35	Zone - 3	WAR	Fixed	1.76	267.79	100.72	
J-2377	35	Zone - 3	WAR	Fixed	1.76	207.79	100.72	
J-2378	22	Zone - 3	WAR	Fixed	1.76	267.15	100.00	
J-2380	37	Zone - 3	WAR	Fixed	1.76	267.80	99.85	
J-2381	36	Zone - 3	WAR	Fixed	1.76	207.79	70.06	
J-2382	83	Zone - 3	WAR	Fixed	1.76	207.02	79.90	
J-2383	50	Zone - 3	WAR	Fixeo	1./0	207.01	94.24	
J-2384	50	Zone - 3	WAR	Fixed_	1./0	207.01	102.90	
		Zone - 3	WAR	Fixed	1./0	207.01	102.05	
J-2386	31	Zone - 3	WAR	Fixed	1./0	201.19	102.45	
J-2387	31	Zone - 3	WAR	Fixed	1./0	207.18	102.40	İ
J-2388	36	Zone - 3	WAR	Fixed	1.70	207.79	105.04	
J-2389	25	Zone - 3		Fixed	1.70	267.77	92.49	
J-2390	54	Zone - 3	WAR NAP	Fixed	1.76	267.77	92.92	
J-2391	53	Zone - 3		Fixed	1.70	267.77	92.49	
J-2392	54			Fixed	1 76	267.77	89.89	
J-2393	<u> </u>			Fixed	1.76	267.77	92.92	
J-2394	53	20ne - 3		Fixed	1.76	267.77	75.61	
J-2395	93	ZONE - 3	WAR	Fixed	1.76	267.77	98.11	
J-2390	41	7000-3	WAR	Fixed	1.76	267.77	98.55	
J-239/	40	7000.2	WAR	Fixed	1.76	267.77	81.24	
J-2398	24	7000-2	WAR	Fixed	1.76	267.77	101.14	ļ
J-2399	<u> </u>	Zone - 3	WAR	Fixed	1.76	267.78	98.12	
1-2400	21	Zone - 3	WAR	Fixed	1.76	267.78	102.44	
1-2401	52	700-3	WAR	Fixed	1.76	267.78	92.93	
1-2402	53	Zone - 3	WAR	Fixed	1.76	267.78	92.93	
1-2404	55	Zone - 3	WAR	Fixed	1.76	267.78	92.06	
1.2405	57	Zone - 3	WAR	Fixed	1.76	267.78	91.19	
1-2407	54	Zone - 3	WAR	Fixed	1.76	267.78	92.49	•
J-2410	56	Zone - 3	WAR	Fixed	1.76	267.78	91.63	
J-2411	58	Zone - 3	WAR	Fixed	1.76	267.78	90.76	
J-2412	25	Zone - 3	WAR	Fixed	1.76	267.57	104.95	•
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				<b>_</b>	Demand (Calculated)	Usiculated Hydraulic	Pressure
Label	Elevation (ft)	Zone	Notes	Pattern	(gpm)	Grade (ft)	(psi)
J-2413	33	Zone - 3	WAR	Fixed	1.76	267.57	101.49
J-2414	28	Zone - 3	WAR	Fixed	1.76	267.57	103.65
J-2415	49	Zone - 3	WAR	Fixed	1.76	267.57	94.57
J-2416	45	Zone - 3	WAR	Fixed	1.76	267.54	96.28
J-2417	49	Zone - 3	WAR	Fixed	1.76	267.54	94.55
J-2418	36	Zone - 3	WAR	Fixed	1.76	267.49	100.16
J-2419	30	Zone - 3	WAR	Fixed	1.76	267.49	102.75
J-2420	30	Zone - 3	WAR	Fixed	1.76	267.49	102.75
J-2421	30	Zone - 3	WAR	FIXED	1.76	207.49	102.75
J-2422	50	Zone - 3	WAR	Fixed	1.70	207.43	94.06
J-2423	53	Zone - 3	WAR	rixed	1.76	207.44	92.70
J-2424	59	Zone - 3	WAR	Fixed	1./6	207.44	90.10
J-2425	56	Zone - 3	WAR	Fixed	1.76	267.44	91.48
J-2426	62	Zone - 3	WAR	Fixed	1.76	267.44	88.88
J-2427	58	Zone - 3	WAR	Fixed	1.76	267.44	90.61
J-2428	57	Zone - 3	WAR	Fixed	1.76	267.44	91.05
J-2429	58	Zone - 3	WAR	Fixed	1.76	267.44	90.61
J-2430	56	Zone - 3	WAR	Fixed	1.76	267.44	91.48
J-2431	62	Zone - 3	WAR	Fixed	1.76	267.44	88.88
J-2432	73	Zone - 3	WAR	Fixed	1.76	267.44	84.12
J-2433	57	Zone - 3	WAR	Fixed	1.76	267.44	91.05
J-2434	55	Zone - 3	WAR	Fixed	1.76	267.44	91.91
J-2435	50	Zone - 3	WAR	Fixed	1.76	267.45	94.08
J-2436	42	Zone - 3	WAR	Fixed	1.76	267.45	97.54
J-2437	55	Zone - 3	WAR	Fixed	1.76	267.44	91.91
J-2438	63	Zone - 3	WAR	Fixed	1.76	267.44	88.45
J-2439	51	Zone - 3	WAR	Fixed	1.76	267.44	93.64
J-2440	42	Zone - 3	WAR	Fixed	1.76	267.46	97.54
J-2441	46	Zone - 3	WAR	Fixed	1.76	267.46	95.81
J-2442	48	Zone - 3	WAR	Fixed	1.76	267.46	94.95
1-2443	44	Zone - 3	WAR	Fixed	1.76	267.47	96.68
1.2444	42	Zone - 3	WAR	Fixed	1.76	267.47	97.55
1-2444	40	Zone - 3	WAR	Fixed	1.76	267.46	98.41
1.2446	30	Zone - 3	WAR	Fixed	1.76	267.47	102.74
1 2440	20	Z000 - 3	WAR	Fixed	1.76	267.48	99.29
J-2447	40	Zone - 3	WAR	Fixed	1.76	267.48	94.96
J-2440	40	Zone - 3	WAR	Fixed	1.76	267.47	87.16
J-2449	00	Zone - 3		Fixed	1.76	267.15	89.19
J-2450	67	Zune - 3		Fixed	1.76	267.47	86.73
J-2401	67	Z0110 - 3		Fixed	1 76	267.46	86.73
J-2452	<u> </u>			Fived	1 76	266.22	85.33
J-2453	69	2010-3		Fixed	1 76	267 46	86.73
J-2454	6/	Zone - 3		Fired	1 76	266.24	86.20
J-2455	67	Zone - 3		Fixed	1.76	267.46	87.59
J-2456	65	Zone - 3		Fixed	1.76	267.46	91.06
J-2457	57	Zone - 3		Eived	1.76	328.07	97.38
	103	Zone - 1		Fixed	1.10	328.07	99.11
J-2459	99	Zone - 1		Eived	1.76	328.07	98.68
J-2460	100	Zone - 1		Eived	1.70	328.07	90.89
J-2461	118	Zone - 1	WAR	Fixed	1.70	327.94	92.13
J-2462	115	Zone - 1	WAR	Fixed	1.70	327.04	88.23
J-2463	124	Zone - 1	WAR	Fixed	1 76	327.77	117 15
J-2464	57	Zone - 1	WAK	Eivad	1.70	327 77	117 15
J-2465	57	Zone - 1		Einer	4 76	327 77	105.47
J-2466	84	Zone - 1		Fixed	1 76	327.77	111 52
J-2467	70	Zone - 1	WAR	Fixed	4 70	207 76	121 04
J-2468	48	Zone - 1	WAR	Fixed	1.70	227.72	122.04
J-2469	45	Zone - 1	WAR	rixed	1./0	321.13	124.32
J-2470	47	Zone - 1	WAR	Fixed	1./0	207.72	121.40
J-2471	45	Zone - 1	WAR	Fixed	1./0	321.12	122.32
J-2472	45	Zone - 1	WAR	Fixed	1./6	321.12	122.32
J-2473	48	Zone - 1	WAR	Fixed	1./6	321.13	121.03
J-2474	45	Zone - 1	WAR	<b>I</b> ixed	1.70	321.13	122.33

Г		1				Demand	Calculated	[
						(Calculated)	Hydraulic	Pressure
	Label	Elevation (ft)	Zone	Notes	Pattern	(gpm)	Grade (ft)	(psi)
ľ	J-2475	38	Zone - 1	WAR	Fixed	1.76	327.72	125.35
Ī	J-2476	49	Zone - 1	WAR	Fixed	1.76	327.73	120.59
	J-2477	41	Zone - 1	WAR	Fixed	1.76	327.73	124.05
ľ	J-2478	45	Zone - 1	WAR	Fixed	1.76	327.75	122.33
Į Į	J-2479	42	Zone - 1	WAR	Fixed	1.76	327.73	123.62
E	J-2480	63	Zone - 1	WAR	Fixed	1.76	327.90	114.61
	J-2481	63	Zone - 1	WAR	Fixed	1.76	327.90	114.61
	J-2482	85	Zone - 1	WAR	Fixed	1.76	327.81	105.05
1	J-2483	103	Zone - 1	WAR	Fixed	1.76	327.80	97.26
-	J-2485	100	Zone - 1	WAR	Fixed	1.76	327.80	98.56
Ļ	<u>J-2486</u>	87	Zone - 1	WAR	Fixed	1.76	327.80	104.18
ŀ	J-2487	50	Zone - 1	WAR	Fixed	1.70	327.60	120.19
ŀ	J-2488	40	Zone - 1		Fixed	1.70	327.00	00.96
1	J-2489	97	Zone - 1		Fixed	1.70	327.00	103.32
r	J-2490	150	Zone - 1		Eived	1.70	335.60	76.41
	1 2491	109	Zone - 1		Fixed	1.76	335.60	72.08
ŀ	1-2492	165		WAR	Fixed	1.76	335.60	73.81
ŀ	1-2493	103	Zone - 3	WAR	Fixed	1.76	267.85	60.94
ŀ	J-2495	132	Zone - 3	WAR	Fixed	1.76	267.84	58.77
	J-2496	178	Zone - 1	WAR	Fixed	1.76	335.60	68.19
	J-2497	178	Zone - 1	WAR	Fixed	1.76	335.60	68.19
	J-2498	169	Zone - 1	WAR	Fixed	1.76	335.60	72.08
	J-2499	193	Zone - 1	WAR	Fixed	1.76	335.60	61.70
	J-2500	133	Zone - 3	WAR	Fixed	1.76	267.81	58.33
	J-2501	144	Zone - 3	WAR	Fixed	1.76	267.81	53.57
	J-2502	204	Zone - 3	WAR	Fixed	1.76	267.81	27.61
	J-2503	115	Zone - 3	WAR	Fixed	1.76	267.81	66.11
	J-2504	113	Zone - 3	WAR	Fixed	1.76	267.80	66.98
	J-2505	73	Zone - 3	WAR	Fixed	1.76	267.80	84.28
	J-2506	85	Zone - 3	WAR	Fixed	1.76	267.80	79.09
	J-2507	145	Zone - 3	WAR	Fixed	1.76	267.84	53.15
	J-2508	205	Zone - 3	WAR	Fixed	1.76	267.88	27.20
	J-2509	52	Zone - 3	WAR	Fixed	1.76	267.80	93.37
	J-2510	34	Zone - 1	WAR	Fixed	1.76	320.74	120.03
	J-2511	34	Zone - 1		Fixed	1.70	320.71	07.27
	<u>J-2512</u>	43	Zone - 3	WAR NA D	Fixed	1.70	207.02	103.74
	J-2513	28	Zone - 3		Fixed	1.70	267.76	103.74
	J-2514	28	Zone - 3		Fixed	1.70	267.77	90.76
	J-2010	50	Zone - 3		Fixed	1.76	267.78	92.49
	J-2010	35	Z000-3	WAR	Fixed	1.76	267.76	100.70
	L2518	33	Zone - 3	WAR	Fixed	1.76	267.75	96.81
	1-2510	45	Zone - 3	WAR	Fixed	1.76	267.75	96.37
	1-2520	30	Zone - 3	WAR	Fixed	1.76	267.75	102.86
	J-2521	41	Zone - 3	WAR	Fixed	1.76	267.75	98.10
	J-2522	33	Zone - 3	WAR	Fixed	1.76	267.75	101.56
	J-2523	34	Zone - 3	WAR	Fixed	1.76	267.75	101.13
	J-2524	21	Zone - 3	WAR	Fixed	1.76	267.75	106.76
	J-2525	21	Zone - 3	WAR	Fixed	1.76	267.75	106.76
	J-2526	43	Zone - 3	WAR	Fixed	1.76	267.78	97.25
	J-2527	25	Zone - 3	WAR	Fixed	1.76	267.79	105.04
	J-2528	25	Zone - 3	WAR	Fixed	1.76	267.79	105.04
	J-2529	25	Zone - 3	WAR	Fixed	1.76	207.78	105.04
-	J-2531	32	Zone - 3	WAR	Fixed	1./6	201.11	102.01
	J-2532	30	Zone - 3	WAR	Fixed	1.70	201.10	00.76
	J-2533	58	Zone - 3	WAR	Fixed	1.70	207.70	100.70
	J-2534	35	20ne - 3		Fived	1 76	267.75	95.51
-	J-2535	4/			Fixed	1 76	267.75	100.27
	J-2536	50	Zone 3	WAR	Fixed	1.76	267.74	90.75
	J-200/		Zone - 3	WAR	Fixed	1.76	267.75	94.64
	1 1-2020	47		····				

					Demand	Calculated	
					(Calculated)	Hydraulic	Pressure
Label	Elevation (ft)	Zone	Notes	Pattern	(gpm)	Grade (ft)	(psi)
J-2539	50	Zone - 3	WAR	Fixed	1.76	267.75	94.21
J-2540	55	Zone - 3	WAR	Fixed	1.76	267.73	92.04
J-2541	55	Zone - 3	WAR	Fixed	1.76	267.73	92.04
J-2542	36	Zone - 3	WAR	Fixed	1.76	266.69	99.81
J-2543	55	Zone - 3	WAR	Fixed	1.76	267.75	92.04
J-2544	45	Zone - 3	WAR	Fixed	1.76	267.75	96.37
J-2545	38	Zone - 3	WAR	Fixed	1.76	267.75	99.40
J-2546	36	Zone - 3	WAR	Fixed	1.76	267.75	100.27
J-2547	47	Zone - 3	WAR	Fixed	1.76	267.75	95.51
J-2551	208	Zone - 1	WAR	Fixed	1.76	341.06	57.57
J-2552	230	Zone - 1	WAR	Fixed	1.76	341.06	48.05
J-2553	127	Zone - 1	WAR	Fixed	1.76	345.29	94.44
J-2554	126	Zone - 1	WAR	Fixed	1.76	347.09	95.66
J-2555	130	Zone - 1	WAR	Fixed	1.76	348.65	94.60
J-2556	145	Zone - 1	WAR	Fixed	1.76	347.09	87.44
J-2557	143	Zone - 1	WAR	Fixed	1.76	347.09	88.30
J-2558	142	Zone - 1	WAR	Fixed	1.76	347.09	88.73
J-2559	245	Zone - 1	WAR	Fixed	1.76	333.61	38.34
J-2560	265	Zone - 2	WAR	Fixed	1.76	496.89	100.33
J-2561	90	Zone - 1	WAR	Fixed	1.76	335.77	106.33
J-2562	90	Zone - 1	WAR	Fixed	1.76	335.77	106.33
J-2563	169	Zone - 1	WAR	Fixed	1.76	335.61	72.09
J-2564	159	Zone - 1	WAR	Fixed	1.76	335.60	76.41
J-2565	204	Zone - 1	WAR	Fixed	1.76	335.53	56.91
J-2566	204	Zone - 3	WAR	Fixed	1.76	269.90	28.51
J-2567	205	Zone - 3	WAR	Fixed	1.76	269.90	28.08
J-2568	204	Zone - 1	WAR	Fixed	1.76	335.60	56.94
J-2569	204	Zone - 1	WAR	Fixed	1.76	335.60	56.94
J-2570	90	Zone - 3	WAR	Fixed	1.76	268.87	77.39
J-2571	80	Zone - 3	WAR	Fixed	1.76	268.87	81.71
J-2572	85	Zone - 3	WAR	Fixed	1.76	268.87	79.55
J-2573	170	Zone - 1	WAR	Fixed	1.76	333.61	70.78
J-2574	110	Zone - 6	WAR	Fixed	1.76	231.93	52.75
J-2575	130	Zone - 6	WAR	Fixed	1.76	231.14	43.76
J-2576	130	Zone - 6	WAR	Fixed	0.00	231.07	43.73
J-2577	130	Zone - 1	WAR	Fixed	0.00	336.17	89.20
J-2578	130	Zone - 6	WAR	Fixed	0.00	231.07	43.73
J-2579	130	Zone - 1	WAR	Fixed	0.00	336.17	89.20
J-2580	130	Zone - 6	WAR	Fixed	0.00	231.07	43.73
J-2581	130	Zone - 1	WAR	Fixed	0.00	336.17	89.20
J-2582	130	Zone - 6	WAR	Fixed	0.00	231.07	43.73
J-2583	130	Zone - 1	WAR	Fixed	0.00	336.17	89.20
J-2584	35	Zone - 1	WAR	Fixed	1.76	326.56	126.15
J-2585	35	Zone - 3	WAR	Fixed	1.76	268.00	100.81
J-2586	110	Zone - 6	WAR	Fixed	0.00	231.98	52.77
J-2587	26	Zone - 3	WAR	Fixed	1.76	267.80	104.61
J-2588	85	Zone - 1	WAR	Fixed	1.76	327.88	105.08
J-2589	40	Zone - 3	WAR	Fixed	1.76	267.46	98.41
J-2590	40	Zone - 3	WAR	Fixed	1.76	267.46	98.41
J-2591	110	Zone - 1	WAR	Fixed	1.76	327.97	94.31
J-2593	25	Zone - 3	WAR	Fixed	1.76	267.80	105.05
J-2594	25	Zone - 3	WAR	Fixed	1.76	267.79	105.04
J-2595	25	Zone - 3	WAR	Fixed	1.76	267.79	105.04
J-2596	30	Zone - 3	WAR	Fixed	1.76	267.79	102.88
J-2597	30	Zone - 3	WAR	Fixed	1.76	267.79	102.88
J-2598	180	Zone - 3	WAR	Fixed	1.76	267.84	38.01
J-2599	170	Zone - 1	WAR	Fixed	1.76	326.26	67.60
J-2600	34	Zone - 1	WAR	Fixed	1.76	326.76	126.66
J-2601	65	Zone - 1	WAR	Fixed	1.76	327.43	113.54
J-2602	65	Zone - 1	WAR	Fixed	1.76	327.43	113.54
J-2603	43	Zone - 1	WAR	Fixed	1.76	326.81	122.79
J-2604	43	Zone - 1	WAR	Fixed	1.76	326.81	122.79

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					Demand (Calculated)	Calculated Hydraulic	Pressure
Label	Elevation (ft)	Zone	Notes	Pattern	(gpm)	Grade (ft)	(psi)
J-2605	73	Zone - 1	WAR	Fixed	1.76	326.83	109.82
J-2606	73	Zone - 1	WAR	Fixed	1.76	326.83	109.82
J-2607	127	Zone - 1	WAR	Fixed	1.76	326.61	86.36
J-2608	127	Zone - 1	WAR	Fixed	1.76	326.61	86.36
J-2609	170	Zone - 1	WAR	Fixed	1.76	326.67	67.78
J-2610	170	Zone - 1	WAR	Fixed	1.76	326.67	67.78
J-2611	155	Zone - 1	WAR	Fixed	1.76	326.37	74.14
J-2612	155	Zone - 1	WAR	Fixed	1.76	326.37	74.14
J-2613	170	Zone - 1	WAR	Fixed	1.76	326.96	67.91
J-2614	170	Zone - 1	WAR	Fixed	1.76	326.96	67.91
J-2615	155	Zone - 1	WAR	Fixed	1.76	326.60	74.24
J-2616	162	Zone - 1	WAR	Fixed	1.76	326.58	71.20
J-2617	265	Zone - 1	WAR	Fixed	1.76	333.61	29.68
J-2618	245	Zone - 2	WAR	Fixed	1.76	496.89	108.98
J-2619	245	Zone - 2	WAR	Fixed	1.76	496.89	108.98
J-2620	78	Zone - 3	WAR	Fixed	1.76	267.80	82.12
J-2621	87	Zone - 1	WAR Kent County Hospital	Fixed	68.60	327.76	104.17
J-2622	54	Zone - 3	WAR Cowesett Hills	Fixed	34.80	267.78	92.49
J-2623	54	Zone - 3	WAR Cowesett Hills Assoc.	Fixed	40.17	267.78	92.49
J-2624	250	Zone - 1	WAR Briarwood Meadows	Fixed	44.53	333.39	36.08
J-2625	43	Zone - 1	WAR Vishay Electro Films	Fixed	18.18	326.75	122.77
J-2626	119	Zone - 1	WAR AIMCO Warwick LLC	Fixed	27.78	330.79	91.63
J-2627	102	Zone - 1	WAR Bald Hill Realty	Fixed	19.52	328.17	97.85
J-2628	245	Zone - 2	WAR	Fixed	0.00	494.93	108.13
J-2629	66	Zone - 1	WAR	Fixed	0.00	327.43	113.11
J-2630	71	Zone - 1	WAR	Fixed	0.00	327.43	110.94
J-2631	76	Zone - 1	WAR	Fixed	0.00	327.43	108.78
J-2632	75	Zone - 1	WAR	Fixed	0.00	327.43	109.21
J-2633	100	Zone - 1	WAR	Fixed	0.00	327.43	98.40
J-2634	94	Zone - 1	WAR	Fixed	0.00	327.43	100.99
J-2635	44	Zone - 3	WAR	Fixed	0.00	267.47	96.68
1-2636	60	Zone - 3	WAR	Fixed	0.00	267.47	89.76
J-2637	43	Zone - 3	WAR	Fixed	0.00	267.47	97.12
1-2638	46	Zone - 3	WAR	Fixed	0.00	267.47	95.82
1-2639	43	Zone - 3	WAR	Fixed	0.00	267.47	97.12
1-2640	42	Zone - 3	WAR	Fixed	0.00	267.47	97.55
1-2641	40	Zone - 3	WAR	Fixed	0.00	267.47	98.41
1-2642	42	Zone - 3	WAR	Fixed	0.00	267.47	97.55
1-2643	40	Zone - 3	WAR	Fixed	0.00	267.47	98.41
1_3000	330	Zone - 4	WG	Fixed	1.31	434.62	45.26
1,2001	220	70na - 4	WG	Fixed	1.31	434.58	49.57
1-3001	286	Zone - 4	WG	Fixed	1.31	434.53	64.26
1-3002	200	7009 - 4	WG	Fixed	1.31	434.51	67.28
1.3003	210	Zone - 4	WG	Fixed	1.31	434.51	70.74
1-3004	27	Zone - 4	WG	Fixed	1.31	434.42	65.94
3000-0	202	Zone - 4	WG	Fixed	1.31	434.32	67.20
1_3007	265	700e - 4	WG	Fixed	1.31	434.09	73.16
1-2007	200	700e - 4	WG	Fixed	1.31	434.09	73.16
1-3000	200	Zone - 4	WG	Fixed	1.31	433.95	73.10
1_2010	200	Zone - 4	WG	Fixed	1.31	434.09	71.43
1_2014	200	7000-4	WG	Fixed	1.31	434.06	70.98
L2012	279	7000-4	WG	Fixed	1.31	434.06	67.52
1_2012	270	Zone - 4	WG	Fixed	1.31	434.06	64,49
1-3013	203	Zone - 4	WG	Fixed	1.31	434.05	63.62
1,2015	207	Zone - 4	WG	Fixed	1.31	434.05	68.81
1.2010	330	Zone - 4	WG	Fixed	1.31	434.05	45.02
1.2017	225	Zone 4	WG	Fixed	1.31	434.02	47.17
/ 1_2019	220	Zone - 4	WG	Fixed	1.31	434.05	43.29
1.3010	303	Zone - 4	WG	Fixed	1.31	433.80	56.59
1-3019	232	Zone - 4	WG	Fixed	1.31	433.80	43.61
1_2024	310	Zone 4	WG	Fixed	1.31	433.73	49.64
1.2020	310	7000 4	WG	Fixed	1.31	433.73	44.88
J-JU22							

					Demand	Calculated	
					(Calculated)	Hydraulic	Pressure
Label	Elevation (ft)	Zone	Notes	Pattern	(gpm)	Grade (ft)	(psi)
J-3023	338	Zone - 4	WG	Fixed	1.31	433.70	41.41
J-3024	333	Zone - 4	WG	Fixed	1.31	433.70	43.57
J-3025	275	Zone - 4	WG	Fixed	1.31	433.61	68.62
J-3026	274	Zone - 4	WG	Fixed	1.31	433.62	69.06
J-3027	283	Zone - 4	WG	Fixed	1.31	433.62	65.17
J-3028	266	Zone - 4	WG	Fixed	1.31	433.54	72.49
J-3029	264	Zone - 4	WG	Fixed	1.31	433.63	73.39
J-3030	266	Zone - 4	WG	Fixed	1.31	433.75	72.58
J-3031	259	Zone - 4	WG	Fixed	1.31	433.75	75.61
J-3032	271	Zone - 4	WG	Fixed	1.31	433.14	70.15
J-3033	296	Zone - 4	WG	Fixed	1.31	433.13	59.33
J-3034	331	Zone - 4	WG	Fixed	1.31	433.13	44.19
J-3035	287	Zone - 4	WG	Fixed	1.31	433.13	63.22
J-3036	334	Zone - 4	WG	Fixed	1.31	433.13	42.89
J-3037	300	Zone - 4	WG	Fixed	1.31	433.13	57.60
J-3038	354	Zone - 4	WG	Fixed	1.31	433.13	34.24
J-3039	300	Zone - 4	WG	Fixed	1.31	433.13	57.60
J-3041	340	Zone - 2	WG	Fixed	1.31	494.97	67.05
J-3042	342	Zone - 2	WG	Fixed	1.31	494.97	66.18
J-3043	340	Zone - 2	WG	Fixed	1.31	495.91	67.45
J-3045	360	Zone - 2	WG	Fixed	1.31	494.97	58.39
J-3046	426	Zone - 2	WG	Fixed	0.00	494.98	29.84
J-3047	350	Zone - 2	WG	Fixed	1.31	494.97	62.72
J-3048	335	Zone - 2	WG	Fixed	1.31	494.97	69.21
J-3049	340	Zone - 2	WG	Fixed	1.31	495.91	67.45
J-3050	350	Zone - 2	WG	Fixed	1.31	494.97	70.15
J-3051	271	Zone - 4	WG	Fixed	1.31	433.14	67.10
<u>J-3052</u>	2/9	Zone - 4		Fixed	922.20	404.30	68.89
J-3053	335	Zone - 2	WC C Tech	Fixed	25.76	495.01	67.06
J-3054	340	Zone - 2	WG G-TECH	Fixed	23.70	495.00	67.06
J-3000	340	Zone - Z		Fixed	2.00	404 07	36.76
J-3000	410	Zone - Z		Fixed	2.22	494.97	35.90
J-3067	412	Zone - 2	WG	Fixed	2.22	494.97	51.47
J-3068	3/6	Zone - 2	WG N/G	Fixed	2.22	494.97	44.55
J-3069	392	Zone - Z	WG	Fixed	2.22	494.97	53.20
J-3070	3/2	7000 2		Fixed	2.22	494 97	28.11
J-3071	430	Zone - 2	WG	Fixed	0.00	494 97	34.60
J+3072	410	Z000 - 2	WG	Fixed	8.64	494 54	79.84
J-3073	210	Zone 2	WG	Fixed	8.64	494.52	79.83
1-30/4	310	Zona - 2	WG	Fixed	8.64	494.51	78.53
1-30/3	212	Z000-2	WG	Fixed	8.64	494.51	78.53
1-3077	212	Zone - 2	WG	Fixed	8.64	494.51	78.53
1-3079	316	Zone - 2	WG	Fixed	8.64	494.51	77.23
1.3070	316	Zone - 2	WG	Fixed	8.64	494.51	77.23
J-3080	316	Zone - 2	WG	Fixed	8.64	494.52	77.24
J-3081	310	Zone - 2	WG	Fixed	8.64	494.53	79.84
J-3082	310	Zone - 2	WG	Fixed	0.00	494.56	79.85
J-4000	270	Zone - 2	EG	Fixed	8.33	494.48	97.12
J-4001	282	Zone - 2	EG	Fixed	1.77	494.48	91.93
J-4002	264	Zone - 2	EG	Fixed	1.77	494.48	99.72
J-4003	265	Zone - 2	EG	Fixed	1.77	494.48	99.29
J-4004	266	Zone - 2	EG	Fixed	1.77	494.48	98.85
J-4005	280	Zone - 2	EG	Fixed	1.77	494.48	92.80
J-4006	280	Zone - 2	EG	Fixed	1.77	494.48	92,80
J-4007	290	Zone - 2	EG	Fixed	1.77	494.48	88.47
J-4008	280	Zone - 2	EG	Fixed	1.77	494.48	92.79
J-4009	288	Zone - 2	EG	Fixed	1.77	494.48	89.33
J-4010	288	Zone - 2	EG	Fixed	1.77	494.48	89.33
J-4011	280	Zone - 2	EG	Fixed	1.77	494.48	92.79
J-4012	277	Zone - 2	EG	Fixed	1.77	494.48	94.09
J-4013	282	Zone - 2	EG	Fixed	1.77	494.48	91.93

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					Demand (Calculated)	Calculated Hydraulic	Pressure
Label	Elevation (ft)	Zone	Notes	Pattern	(gpm)	Grade (ft)	(psi)
J-4014	290	Zone - 2	EG	Fixed	1.77	494.59	88.52
J-4015	292	Zone - 2	EG	Fixed	1.77	494.59	87.65
J-4016	295	Zone - 2	EG	Fixed	1.77	494.59	86.35
J-4017	289	Zone - 2	EG	Fixed	1.77	494.63	88.97
J-4018	290	Zone - 2	EG	Fixed	1.77	494.63	88.54
J-4019	289	Zone - 2	EG	Fixed	1.77	494.63	88.97
1-4020	282	Zone - 2	EĜ	Fixed	1.77	494.63	91.99
J-4021	287	Zone - 2	EG	Fixed	1.77	494.62	89.83
1-4022	285	Zone - 2	EG	Fixed	1.77	494.64	90.70
1-4023	280	Zone - 2	EG	Fixed	1.77	494.77	92.92
1_4024	260	Zone - 2	FG	Fixed	1.77	494.77	101.58
1-4025	250	Zone - 2	FG	Fixed	1.77	494.80	105.91
1 4026	200	Zone - 2	EG EG	Fixed	1.77	494.78	99.42
14020	205	Zone - 2	FG	Fixed	1 77	494.64	92.86
J-4028	260	Zone - 2	<u>EG</u>	Fixed	1.77	494 63	92.86
J-4029	280	Zone - Z	EG	Eived	1 77	494.62	99.78
J-4030	264	Zone - Z	EG	Fixed	1.77	404.62	96 75
J-4031	2/1	Zone - 2	EG	Fixed	1.77	494.02	07.61
J-4032	269	Zone - 2	EG	Fixed	1.77	494.02	97.01
J-4033	261	Zone - 2	EG	Fixed	1.77	494.02	101.00
J-4034	257	Zone - 2	EG	Fixed	1.77	494.62	102.81
J-4035	248	Zone - 2	EG	Fixed	1.77	494.63	106.70
J-4036	266	Zone - 2	EG	Fixed	1.77	494.48	98.85
J-4037	258	Zone - 2	EG	Fixed	1.77	494.48	102.31
J-4038	242	Zone - 2	EG	Fixed	1.77	494.48	109.24
J-4039	260	Zone - 2	EG	Fixed	1.77	494.48	101.45
J-4040	242	Zone - 2	EG	Fixed	1.77	494.48	109.24
1-4041	252	Zone - 2	EG	Fixed	1.77	494.48	104.91
1_4042	260	Zone - 2	FG	Fixed	1.77	494.48	101.45
1_4043	260	Zone - 2	FG	Fixed	1.77	494.48	101.45
1 4043	200	Zone - 2	EG EG	Fixed	1.77	494.48	94.53
1 4045	275	Zone - 2		Fixed	1.77	494.49	116.59
J-4045	225	Zone - 2	<u> </u>	Fived	1 77	494 49	110.10
J-4040	240	2010-2	<u> </u>	Fixed	1 77	494.50	130.88
J-4047	192	Zone - Z	<u> </u>	Eivod	1 77	494 48	132 17
J-4048	189	Zone - Z	<u> </u>	Fixed	1.77	332.05	28.58
J-4049	266	Zone - 1	<u> </u>	Fixed	4.77	404.48	94.53
J-4050	276	Zoné - 2	EG	Fixed	4.77	404.40	04.53
J-4051	276	Zone - 2	EG	Fixed	1.77	494.40	09.95
J-4052	266	Zone - 2	EG	Fixed	1.11	494.40	90.05
J-4053	266	Zone - 2	EG	Fixed	1.77	494.48	90.00
J-4054	266	Zone - 2	EG	Fixed	1.77	494.48	90.00
J-4055	276	Zone - 1	EG	Fixed	0.00	332.03	24.24
J-4056	246	Zone - 2	EG	Fixed	1.77	494.48	107.51
J-4057	212	Zone - 2	EG	Fixed	1.77	494.48	122.21
J-4058	204	Zone - 2	EG	Fixed	1.77	494.48	125.68
J-4059	219	Zone - 2	EG	Fixed	1.77	494.48	119.19
J-4060	190	Zone - 2	EG	Fixed	1.77	494.48	131.73
1-4061	246	Zone - 1	EG	Fixed	1.77	332.14	37.27
1-4062	180	Zone - 1	EG	Fixed	1.77	332.14	61.93
1_4063	237	Zope - 1	EG	Fixed	1.77	332.14	41.16
1_1064	264	70ne - 1	EG	Fixed	1.77	332.14	29.48
1_4065	227	7009-1	EG	Fixed	1.77	332.13	41.16
1.4066	201	7000-1	FG	Fixed	1.77	332.13	35.53
1 4007	240	7000-1	FG	Fixed	1.77	332.13	35.97
1 4000	249	7000 1	FG	Fixed	1.77	332.13	32.07
1 4000	200	Zone - 1	FG	Fixed	1.77	332.13	31.21
J-4009	200	Zone 1	EG	Fixed	1.77	332.17	57.18
J-4070	200			Fived	1 77	332.18	63.68
	185	20ne - 1		Fived	1 77	332.19	68.44
J-4072	174	Zone - 1	<u> </u>	Eivad	1 77	332 21	75.80
	157	Zone - 1	<u>EG</u>	Eived	4 77	332.27	70.62
J-4074	169	Zone - 1	EG		4 77	322.22	71 48
J-4075	167	Zone - 1	EG	FIXED	4 77	222.25	79.95
1 4070	150	700e - 1	I EG	FIXED	1 1.77	332.20	1 10:00

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		1	ļ			Demand	Calculated	<u> </u>
						(Calculated)	Hydraulic	Pressure
	Label	Elevation (ff)	Zone	Notes	Pattern	(gpm)	Grade (ft)	(psi)
F	J-4077	160	Zone - 1	EG	Fixed	1.77	332.24	74.52
	J-4078	162	Zone - 1	EG	Fixed	1.77	332.22	73.64
F	J-4079	162	Zone - 1	EG	Fixed	1.77	332.22	73.64
	J-4080	160	Zone - 1	EG	Fixed	1.77	332.26	74.53
Ĺ	J-4081	165	Zone - 1	EG	Fixed	1.77	332.26	72.36
	J-4082	157 _	Zone - 1	EG	Fixed	1.77	332.26	75.83
_	J-4083	156	Zone - 1	EG	Fixed	1.77	332.34	76.29
L	J-4084	162	Zone - 1	EG	Fixed	1.77	332.48	73.76
	J-4085	178	Zone - 1	EG	Fixed	1.77	332.34	66.77
	J-4086	179	Zone - 1	EG	FIXED	1.//	332.23	67.00
Ļ	J-408/	1/6	Zone - 1	<u>EG</u>	Fixed	1.77	332.20	73.23
	J-4088	163	Zone - 1	EG	Fixed	1.77	332.25	65.93
	J-4089	100	Zone - 1	EG	Fixed	1 77	332.39	63.77
	J-4090	247	Zone - 1	EG	Fixed	1 77	332.21	36.87
ŀ	1_4091	108	Zone - 1	EG	Fixed	1.77	333.94	97.75
	1-4092	229	Zone - 1	FG	Fixed	1.77	332.14	44.62
ŀ	J-4095	197	Zone - 1	EG	Fixed	1.77	331.96	58.39
·- F	J-4096	197	Zone - 1	EG	Fixed	1.77	331.97	58.40
f	J-4097	220	Zone - 1	EG	Fixed	1.77	331.99	48.45
í	J-4098	210	Zone - 1	EG	Fixed	1.77	331.98	52.77
	J-4099	205	Zone - 1	EG	Fixed	1.77	331.98	54.94
- [	J-4100	227	Zone - 1	EG	Fixed	1.77	332.02	45.44
	J-4101	225	Zone - 1	EG	Fixed	1.77	332.16	46.36
	J-4102	226	Zone - 1	EG	Fixed	1.77	332.15	45.93
	J-4103	221	Zone - 1	EG	Fixed	1.//	332.01	48.03
	J-4104	210	Zone - 1	EG	Fixed	1.77	332.01	32.79
	J-4105	223	Zone - 1	EG	Fixed	1.77	332.01	41.10
-	J-4106	229	Zone - 1	EG	Fixed	1.77	332.14	45.49
	J-4107	227	Zone - 1	EG	Fixed	1 77	332.15	44.19
	J-4100	250	ZUNE - 1	FG	Fixed	1.77	332.14	33.81
	J-4109	250	Zone - 1	FG	Fixed	1.77	332.14	35.54
	1_4111	250	Zone - 1	FG	Fixed	1.77	332.14	31.21
	.)-4112	262	Zone - 2	EG	Fixed	1.77	494.80	100.72
	J-4113	250	Zone - 2	EG	Fixed	1.77	494.80	105.91
	J-4114	260	Zone - 2	EG	Fixed	1.77	494.80	101.59
	J-4115	280	Zone - 1	EG	Fixed	1.77	332.14	22.56
	J-4116	280	Zone - 2	EG	Fixed	1.77	494.81	92.94
	J-4117	300	Zone - 2	EG	Fixed	1.77	494.81	84.28
	J-4118	300	Zone - 2	EG	Fixed	4.79	494.81	84.28
	J-4119	320	Zone - 2	EG	Fixed	4.79	494.81	75.63
—	J-4120	270	Zone - 2	EG	Fixed	1.77	494.81	91.21
	J-4121	330	Zone - 2	EG	Fixed	1.//	494.8/	70.00
	J-4122	310	<u>Zone - 2</u>	EG	Eived	1.//	<u>454.07</u> <u>A04 97</u>	90.80
	J-4123	285	Zone - 2	<u> </u>	Fixed	1 77	494.90	80.00
	J-4124	310	Zone - 2	EG	Fixed	3 48	494.77	84.27
	J-4125			<u>FG</u>	Fixed	3.48	494.76	84.26
	J-4120	300	7004-2	EG	Fixed	3.48	494.77	79.07
	1_4128	405	Zone - 2	EG	Fixed	1.77	494.97	38.93
-	J-4129	370	Zone - 2	EG	Fixed	1.77	494.96	54.06
	J-4130	367	Zone - 2	EG	Fixed	1.77	494.96	55.36
	J-4131	340	Zone - 2	EG	Fixed	1.77	494.94	67.04
	J-4132	320	Zone - 2	EG	Fixed	1.77	494.94	75.69
_	J-4133	321	Zone - 2	EG	Fixed	1.77	494.94	75.25
	J-4134	310	Zone - 2	EG	Fixed	1.77	494.93	74.02
	J-4135	322	Zone - 2	EG	Fixed	1.//	494.93	RA 35
	J-4136	300	Zone - 2	EG	Fixed	1 77	434.80	62 71
	J-4137	350	Zone - 2	<u>EG</u>	Fixed	1.11	494.92	84.33
	J-4138	300	Zone - 2		Fixed	1.77	494 94	79.15
	J-4139	312	Zone - 2	EG	i ixeu	<u> </u>	1 -9-10-4	

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					Demand	Calculated	
					(Calculated)	Hydraulic	Pressure
Label	Elevation (ft)	Zone	Notes	Pattern	(gpm)	Grade (ft)	(psi)
J-4140	290	Zone - 1	EG	Fixed	1.77	332.19	18.25
J-4141	280	Zone - 1	EG	Fixed	1.77	332.19	22.58
J-4142	280	Zone - 1	EG	Fixed	1.77	332.19	22.58
J-4143	275	Zone - 1	EG	Fixed	1.77	332.20	24.75
J-4144	280	Zone - 1	FG	Fixed	1.77	332.19	22.58
J-4145	270	Zone - 1	FG	Fixed	1 77	332 20	26.91
1-4146	280	Zone 1	FG	Fixed	1 77	332.18	22.58
1_4147	270	Zone - 1	FG	Fixed	1 77	332.10	26.01
1_1140	310	7000-7	FG	Fixed	1.77	101 01	80.02
1.4160	200	Zone - 2	<u> </u>	Eivad	1.77	404.04	94.25
14454	340	Zone 2	<u> </u>	Fixed	1.77	494.90	66.04
14450	340	Zone - Z	EG	Fixed	1.77	494.71	00.94
J-4152	109	Zone - I	<u> </u>	Fixed	1.77	333.91	97.31
J-4153	115	Zone - 1	EG	Fixed	1.77	333.88	94.70
J-4154	106	Zone - 1	EG	Pixed	1.77	333.88	98.59
J-4155	103	Zone - 1	EG	Fixed	1.77	333.88	99.89
J-4156	105	Zone - 1	EG	Fixed	1.77	333.87	99.02
J-4157	105	Zone - 1	EG	Fixed	1.77	333.87	99.02
J-4158	112	Zone - 1	EG	Fixed	1.77	333.87	95.99
J-4159	112	Zone - 1	EG	Fixed	1.77	333.87	95.99
J-4160	113	Zone - 1	EG	Fixed	1.77	333.87	95.56
J-4161	112	Zone - 1	EG	Fixed	1.77	333.87	95.99
J-4162	113	Zone - 1	EG	Fixed	1.77	333.87	95.56
J-4163	112	Zone - 1	EG	Fixed	1.77	333.88	96.00
J-4164	110	Zone - 1	EG	Fixed	1.77	333.87	96.86
J-4165	104	Zone - 1	EG	Fixed	1.77	333.88	99.46
J-4166	104	Zone - 1	EG	Fixed	1.77	333.88	99.46
J-4167	111	Zone - 1	EG	Fixed	1.77	333.89	96.43
J-4168	103	Zone - 1	EG	Fixed	1.77	333.89	99.90
J-4169	104	Zone - 1	FG	Fixed	1.77	333.88	99.46
1-4170	50	Zone - 1	FG	Fixed	1.77	333.88	122.82
1.4171	49	Zone - 1	FG	Fixed	1 77	333.88	123.25
1.4172	40	Zone - 1	EC EC	Fixed	1 77	333.00	108.99
1.4172	90	7000.1	EC	Eived	1 77	333.00	109.85
1 4173	109	Zone 1	EG	Fixed	177	333.88	07 73
14475	100	7000 1	<u> </u>	Eixed	1.77	222.00	07.31
J+4173	109	Zone - 1	EG	Fixed	4.77	224.46	56.21
J-4170	201	Zone - 1	EG	Fixed	1.77	331.10	56.31
J-4177	200	Zone - 1	EG	Fixed	1.77	331.15	30.74
J-4178	220	Zone - 1	EG	Fixed	1.77	331.15	40.09
J-4179	218	<u>  20ne - 1</u>	EG	Dexin	1.11	331.15	48.90
J-4180	206	Zone - 1	EG	⊢ixed	1.77	331.15	54.14
J-4181	210	Zone - 1	EG	Fixed	1.77	331.15	52.41
J-4182	215	Zone - 1	EG	Fixed	1.77	331.15	50.25
J-4183	215	Zone - 1	EG	Fixed	1.77	331.14	50.25
J-4184	208	Zone - 1	EG	Fixed	1.77	331.14	53.28
J-4185	212	Zone - 1	EG	Fixed	1.77	331.14	51.55
J-4186	30	Zone - 1	EG	Fixed	1.77	336.24	132.50
J-4187	50	Zone - 1	EG	Fixed	1.77	336.18	123.82
J-4188	50	Zone - 1	EG	Fixed	1.77	336.17	123.81
J-4189	51	Zone - 1	EG	Fixed	1.77	336.16	123.38
J-4190	52	Zone - 1	EG	Fixed	1.77	336.16	122.94
J-4191	57	Zone - 1	EG	Fixed	1.77	336.10	120.75
J-4192	45	Zone - 3	EG	Fixed	1.77	267.96	96.47
J-4193	82	Zone - 1	EG	Fixed	1.77	336.03	109.91
1-4194	57	Zone - 1	EG	Fixed	1.77	335.94	120.69
1.4105	62	Zone - 1	FG	Fixed	1.77	335.90	118.50
J_4106	52	700e-1	<u> </u>	Fixed	1.77	335.82	122.36
1.4107	102	7000-1	FG	Fixed	1.77	335.71	101.12
1_/100	1/2	Zono - 1	FG	Fixed	1 77	335.64	81.18
1.4100	140	Zone 4	FG	Fixed	0.00	337.62	139.37
1 4 200	01	ZONE - 1	FG	Fixed	1 77	336 20	132.48
J-4200	30			Fived	177	335 72	132.27
	30	20118 - 1	<u> </u>	Eivad	1 77	336.08	132 43
J-4202	30	Zone - 1	EG	I LIYOU	1.11	1.0000	1 102.70

<b>_</b>				·····	Demand	Calculated	
					(Calculated)	Hydraulic	Pressure
Label	Elevation (ft)	Zone	Notes	Pattern	(gpm)	Grade (ft)	(psi)
J-4203	30	Zone - 3	EG	Fixed	1.77	336.08	132.43
J-4204	58	Zone - 3	EG	Fixed	1.77	267.97	90.84
J-4205	56	Zone - 3	EG	Fixed	1.77	267.97	91.71
J-4206	36	Zone - 3	EG	Fixed	1.77	267.96	100.36
J-4207	50	Zone - 3	EG	Fixed	1.77	267.96	94.30
1-4208	39	Zone - 3	EG	Fixed	1.77	267.96	99.06
J-4209	118	Zone - 3	EG	Fixed	1.77	268.00	64.90
J-4210	84	Zone - 3	EG	Fixed	1.77	267.98	79.60
J-4211	72	Zone - 3	EG	Fixed	1.77	267.98	84.79
J-4212	101	Zone - 3	EG	Fixed	1.77	267.98	72.25
J-4213	30	Zone - 3	EG	Fixed	1.77	267.94	102.95
.1-4214	119	Zone - 3	EG	Fixed	1.77	267.98	64.46
1-4215	120	Zone - 3	FG	Fixed	1.77	268.00	64.03
1-4216	122	Zone - 3	EG	Fixed	1.77	268.01	63.17
1_4217	120	Zone - 3	FG	Fixed	1 77	268.01	60.14
1-4218	71	Zone - 3	EG	Fixed	1 77	268.00	85.23
1.4210	110	Zone - 3	EG	Fixed	177	268.00	64.46
1_4220	22	7000-2	FG	Fixed	1 77	267.97	101.66
1-4220	50	Zone - 3	EG	Fixed	1.77	267.97	94.31
1-4222	110	Zone - 3	<u> </u>	Flyed	1 77	268.12	64.95
1 4222	66	7000-3	EG	Fixed	1 77	267.99	91 72
J-4223	122	20110-3	<u>E0</u>	Fixed	1.77	268.04	58.42
J-4224	100	Z0110 - 3	<u> </u>	Fixed	1.77	268.01	64 04
J-4225	120		EG	Fixed	1 77	268 12	66 68
J-4220	114	Zone - 3	EG	Fixed	1.77	268.04	57 99
J-4227	134	Zone - 3	EG	Fixed	1.77	268.00	79.61
J-4228	84	Zone - 3	<u></u>	- Fixed	1.77	268.00	79.61
J-4229	84	Zone - 3	<u>EG</u>	Eixed	1.77	268.02	63.61
J-4230	121	Zone - 3	<u> </u>		1.77	268.02	61.45
	126	Zone - 3	<u> </u>	Fixed	1.77	200.02	60 10
J-4232	130	20ne - 3	EG	Fixed	1.77	200.92	83.57
J-4233	/5	Zone - 3	EG		4.77	200.10	64.07
J-4234	118	Zone - 3	EG	Fixed	1.77	200.17	04.97
J-4235	124	Zone - 3	EG	Fixed	1.77	200.02	02.31
J-4236	62	Zone - 3	EG	Fixed	1.77	200.10	69.20
J-4237	118	Zone - 3	EG	Fixed	1.77	200.10	04.97 E0.04
J-4238	134	Zone - 3	EG	Fixed	1.77	200.10	00.04
J-4239	116	Zone - 3	EG	Fixed	1.77	268.14	00.62
J-4240	121	Zone - 3	ŁG	FIXED	1.//	208.10	03.0/
J-4241	130	Zone - 3	EG	FIXED	1.//	208.98	00.13
J-4242	120	Zone - 3	EG	Fixed	1.77	268.77	04.3/
J-4243	146	Zone - 3	EG	Fixed	1.77	268.93	53.18
J-4244	139	Zone - 3	EG	Fixed	1.77	268.91	56.20
J-4245	140	Zone - 3	EG	Fixed	1.77	268.91	55.77
J-4246	135	Zone - 3	EG	Fixed	1.77	268.91	57.94
J-4247	138	Zone - 3	EG	Fixed	1.77	268.85	56.61
J-4248	120	Zone - 3	EG	Fixed	1.77	268.85	64.40
J-4249	128	Zone - 3	EG	Fixed	1.77	268.77	60.90
J-4250	116	Zone - 3	EG	Fixed	1.77	268.18	65.84
J-4251	139	Zone - 3	EG	Fixed	1.77	268.90	56.20
J-4252	124	Zone - 3	EG	Fixed	1.77	269.16	62.80
J-4253	190	Zone - 3	EG	Fixed	1.77	269.35	34.33
J-4254	179	Zone - 3	EG	Fixed	1.77	269.30	39.07
J-4255	132	Zone - 3	EG	Fixed	1.77	269.23	59.37
J-4256	112	Zone - 3	EG	Fixed	1.77	269.08	67.96
J-4257	130	Zone - 3	EG	Fixed	1.77	269.24	60.24
J-4258	155	Zone - 3	EG	Fixed	1.77	269.24	49.42
J-4259	108	Zone - 3	EG	Fixed	1.77	269.13	69.71
J-4260	104	Zone - 3	EG	Fixed	1.77	269.13	71.44
J-4261	142	Zone - 3	EG	Fixed	1.77	269.24	55.05
1-4262	65	Zone - 3	EG	Fixed	1.77	268.41	88.01
1.4282	142	Zone - 3	EG	Fixed	1.77	269.17	55.02
1_4264	201	Zone - 3	EG	Fixed	1.77	269.06	29.45
1 0 42.04							

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					Demand	Calculated	
		İ			(Calculated)	Hydraulic	Pressure
Label	Elevation (ft)	Zone	Notes	Pattern	(gpm)	Grade (ft)	(psi)
J-4265	172	Zone - 3	EG	Fixed	1.77	269.08	42.00
J-4266	153	Zone - 3	EG	Fixed	1.77	269.01	50.19
J-4267	190	Zone - 3	EG	Fixed	1.77	269.50	34.40
J-4269	193	Zone - 3	EG	Fixed	1.77	269.04	32.90
J-4270	175	Zone - 3	EG	Fixed	1.77	269.03	40.68
J-4271	130	Zone - 3	EG	Fixed	1.77	269.02	60.15
J-4272	95	Zone - 3	EG	Fixed	1.77	268.68	75.14
J-4273	105	Zone - 3	EG	Fixed	1.77	268.76	70.85
.i-4274	101	Zone - 3	EG	Fixed	1.77	268.66	72.54
1.4275	170	Zone - 3	FG	Fixed	1.77	269.03	42.84
1.4276	96	Zone - 3	FG	Fixed	1.77	268.76	74.74
1.4277	138	Zone - 3	EG	Fixed	1.77	268.95	56.66
1 4079	100	2018 - 3	EG	Fixed	1 77	268.95	33.29
J-42/0	192	Zone - J	EG ·	Fixed	1 77	268.93	57.94
J-42/9	130	Zone - 3	<u> </u>	Fixed	1 77	268.95	63 14
J-4280	123	Zone - 3	<u> </u>	Eixed	1.77	268 53	82.86
J-4281	11	20ne - 3	EG	Eixed	1.77	268.05	71 37
J-4282	104	Zone - 3	<u> </u>	Fixed	4 77	200.00	74.22
<u>J-4283</u>	97	Zone - 3	EG		1.77	200.70	77 72
<u>J-4284</u>	89	Zone - 3	EG	Fixed	1.//	200.00	75.57
J-4285	94	Zone - 3	EG	Fixed	1.//	208.00	/5.5/
J-4286	82	Zone - 3	EG	Fixed	1.77	268.39	80.73
J-4287	164	Zone - 3	EG	Fixed	1.//	269.02	45.44
J-4288	177	Zone - 3	EG	Fixed	1.77	269.02	39.81
J-4289	161	Zone - 3	EG	Fixed	1.77	269.04	46.75
J-4290	152	Zone - 3	EG	Fixed	1.77	269.02	50.63
J-4291	85	Zone - 3	EG	Fixed	1.77	268.56	79.42
J-4292	116	Zone - 3	EG	Fixed	1.77	268.18	65.84
J-4293	75	Zone - 3	EG	Fixed	1.77	268.52	83.73
J-4294	56	Zone - 3	EG	Fixed	1.77	267.94	91.70
J-4295	56	Zone - 3	EG	Fixed	1.77	267.99	91.72
J-4296	50	Zone - 3	EG	Fixed	1.77	267.99	94.31
.1-4297	46	Zone - 3	EG	Fixed	1.77	267.99	96.04
1-4298	52	Zone - 3	EG	Fixed	1.77	267.99	93.45
1.4200	49	Zone - 3	FG	Fixed	1.77	267.99	94.75
1 4200	43	Z000 - 3	EG	Fixed	1.77	267.99	96.91
1 4201	60	7000 3	<u>E0</u>	Fixed	1 77	268.04	86.12
1 4202	50		<u>EG</u>	Fixed	1 77	268.03	94.33
J-4302	00	7000 2	EG	Fixed	1 77	268.04	80.49
J-4303	70	Zone - 3	<u></u>	Fixed	1 77	268.04	84.82
J-4304	12		<u>E0</u>	Fived	1 77	268.07	91.32
J-4305	5/	Zone - 3		Fixed	1 1 77	268.05	91.31
J-4306	57	Zone - 3	<u> </u>	FIXED	1 1 77	200.00	A1 08
J-4307	62	Zone - 3	<u>EG</u>	Fixed	1.11	200.00	92.18
J-4308	55	Zone - 3	<u> </u>	FIXED	4 77	200.01	02.10
J-4309	51	Zone - 3	<u> </u>	Fixed	4 77	200.00	02.01
J-4310	51	Zone - 3	EG	Fixed	4 77	200.00	00.90
J-4311	58	Zone - 3	EG	Fixed	1.//	200.07	04.33
J-4312	50	Zone - 3	EG	Fixed	1.//	208.04	02 47
J-4313	52	Zone - 3	EG	<b>Hixed</b>		208.03	83.47
J-4314	50	Zone - 3	EG	Fixed		268.04	94.33
J-4315	52	Zone - 3	EG	Fixed	1.77	268.04	93.4/
J-4316	50	Zone - 3	EG	Fixed	1.77	268.03	94.33
J-4317	61_	Zone - 3	EG	Fixed	1.77	267.74	89.45
J-4318	.57	Zone - 3	EG	Fixed	1.77	267.69	91.15
J-4319	54	Zone - 3	EĠ	Fixed	1.77	267.94	92.56
J-4320	51	Zone - 3	EG	Fixed		267.93	93.86
J-4321	60	Zone - 3	EG	Fixed	1.77	267.93	89,96
J-4322	60	Zone - 3	EG	Fixed	1.77	267.93	89.96
J-4323	60	Zone - 3	EG	Fixed	1.77	267.93	89.96
J-4324	60	Zone 3	EG	Fixed	1.77	267.93	89.96
J-4325	52	Zone - 3	EG	Fixed	1.77	267.86	93.39
J-4326	61	Zone - 3	EG	Fixed	1.77	267.85	89.50
J-4327	54	Zone - 3	EG	Fixed	1.77	267.85	92.52

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					Demand (Caiculated)	Calculated Hydraulic	Pressure
Label	Elevation (ft)	Zone	Notes	Pattern	(gpm)	Grade (ft)	(psi)
J-4328	50	Zone - 3	EG	Fixed	1.77	267.91	94.28
J-4329	57	Zone - 3	EG	rixed	1.77	267.85	91.22
<u>J-4330</u>	64	Zone - 3		Fixed	1.//	207.70	02.10
J-4332	55	Zone - 3	EG	Fixed	1.77	207.93	92.12
J-4333	51	Zone - 3	EG	Fixed	1.77	207.92	93.05
J-4334	50	Zone - 3	<u> </u>	Fixed	1.77	267.91	92.12
J-4335	50	Zone - 3		Fixed	1.77	267.86	88.20
J-4330	67	Zone - 3	<u> </u>	Fixed	1.77	267.84	86.89
1-4337	67	Zone - 3	FG	Fixed	1.77	267.85	86.90
1.4330	67	Zone - 3	EG	Fixed	1.77	267.84	86.89
1_4340	58	Zone - 3	FG	Fixed	1.77	267.93	90.83
1-4341	52	Zone - 3	FG	Fixed	1.77	267.95	93.43
.1-4342	52	Zone - 3	FG	Fixed	1.77	267.95	93.43
1.4343	58	Zone - 3	FG	Fixed	1.77	267.97	90.84
1_4344	50	Zone - 3	FG	Fixed	1.77	267.97	94.30
1-4345	55	Zone - 3	EG	Fixed	1.77	267.99	92.15
J-4346	50	Zone - 3	EG	Fixed	1.77	267.93	94.29
J-4347	50	Zone - 3	EG	Fixed	1.77	267.93	94.29
J-4348	55	Zone - 3	EG	Fixed	1.77	267.90	92.11
J-4349	40	Zone - 3	EG	Fixed	1.77	267.89	98.60
J-4350	57	Zone - 3	EG	Fixed	1.77	267.96	91.27
J-4351	50	Zone - 3	EG	Fixed	1.77	267.96	94.30
J-4352	51	Zone - 3	EG	Fixed	1.77	267.91	93.85
J-4353	42	Zone - 3	EG	Fixed	1.77	267.93	97.75
J-4354	42	Zone - 3	EG	Fixed	1.77	267.93	97.75
J-4355	49	Zone - 3	EG	Fixed	1.77	267.93	94.72
J-4356	41	Zone - 3	EG	Fixed	1.77	267.94	98.19
J-4357	64	Zone - 3	EG	Fixed	1.77	267.94	88.23
J-4358	53	Zone - 3	EG	Fixed	1.77	267.97	93.01
J-4359	51	Zone - 3	EG	Fixed	1.77	267.97	93.87
J-4360	50	Zone - 3	EG	Fixed	1.77	268.01	94.32
J-4361	59	Zone - 3	EG	Fixed	1.77	268.09	90.46
J-4362	50	Zone - 3	EG	Fixed	1.77	268.15	94.38
J-4363	61	Zone - 1	EG	Fixed	1.77	268.15	89.62
J-4364	55	Zone - 3	EG	Fixed	1.//	268.21	92.25
J-4365	53	Zone - 3	EG	Fixed	1.//	268.21	93.11
J-4366	63	Zone - 3	EG	Fixed	1.77	268.27	88.81
J-4367	77	Zone - 3	EG	Fixed	1.//	268.49	82.85
J-4368	77	Zone - 3	EG	Fixed	1.77	208.49	02.80
J-4369	73	Zone - 3	EG	Fixed	1.//	208.51	04.99
J-4370	73	Zone - 3	EG	F1Xed	1.11	208.51	04.09 95.00
J-4371	70	Zone - 3	EG	Fixed	1.//	200.00	82.02
J-4372	78	Zone - 3	EG	Elvad	1.77	200.09	76.40
J-4373	92		EG	Fixed	1 77	200.00	78 15
J-4374	88	Zone - 3	EG	Fixed	1 77	268.72	75.59
J-4375	94	Zone - 3	<u> </u>	Fixed	1 1 77	268 73	75.60
J-43/6	94	Zone - 3	<u> </u>	Fixed	1 77	268.61	79.44
J-43//	00 00	7000 2	<u>FG</u>	Fixed	1.77	268.61	78.14
J-43/0	100	7000-2	<u>FG</u>	Fixed	1.77	268.54	72.92
1-4319	100	7000-3	EG	Fixed	1.77	268.58	72.94
1_1201	100	Zone - 3	EG	Fixed	1.77	268.58	72.07
1.4383	02	Zone - 3	EG	Fixed	1.77	268.61	73.81
1_4382	112	Zone - 3	EG	Fixed	1.77	269.06	67.95
J_4394	112	Zone - 3	EG	Fixed	1.77	269.06	67.95
1_4385	125	Zone - 3	EG	Fixed	1.77	269.18	62.38
J-4386	130	Zone - 3	EG	Fixed	1.77	269.14	60.20
J-4387	140	Zone - 3	EG	Fixed	1.77	269.14	55.87
J-4388	120	Zone - 3	EG	Fixed	1.77	269.13	64.52
J-4389	140	Zone - 3	EG	Fixed	1.77	269.13	55.87
J-4390	110	Zone - 3	EG	Fixed	1.77	269.13	68.85
		and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second se					

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					Demand (Calculated)	Calculated Hydraulic	Pressure
Label	Elevation (ft)	Zone	Notes	Pattern	(gpm)	Grade (ft)	(psi)
J-4391	120	Zone - 3	EG	Fixed	1.77	269.11	64.51
J-4392	123	Zone - 3	EG	Fixed	1.77	269.10	63.21
J-4393	115	Zone - 3	EG	Fixed	1.77	269.07	66.66
J-4394	139	Zone - 3	EG	Fixed	1.77	269.14	56.30
J-4395	139	Zone - 3	EG	Fixed	1.77	269.14	56.31
J-4396	139	Zone - 3	EG	Fixed	1.77	269.14	56.30
J-4397	140	Zone - 3	EG	Fixed	1.77	269.14	55.87
J-4398	139	Zone - 3	EG	Fixed	1.77	269.17	56.32
<u>J-4399</u>	140	Zone - 3	EG	Fixed	1.77	269.19	55.90
J-4400	149	Zone - 3	EG	Fixed	1.77	269.19	52.00
<b>J-44</b> 01	153	Zone - 3	EG	Fixed	1.77	269.19	50.27
J-4402	95	Zone - 3	EG	Fixed	1.//	268.72	/5.16
J-4403	98	Zone - 3	EG	Fixed	1.//	268.83	73.91
J-4404	85	Zone - 3	EG	Fixed	1.//	268.72	79.49
J-4405	97	Zone - 3	EG	Fixed	1.77	268.95	74.39
J-4406	100	Zone - 3	EG	Fixed	1.77	268.95	73.10
J-4407	97	Zone - 3	EG	Fixed	1.77	268.95	/4.39
J-4408	110	Zone - 3	EG	-ixed	1./7	268.95	08.77
J-4409	93	Zone - 3	EG	Fixed	1.77	268.87	/6.09
J-4410	93	Zone - 3	EG	Fixed	1.77	268.82	
J-4411	91	Zone - 3	EG	Fixed	1.77	268.79	76.92
J-4412	95	Zone - 3	EG	Fixed	1.77	268.62	75.12
J-4413	67	Zone - 3	EG	Fixed	1.//	268.54	87.20
J-4414	61	Zone - 3	EG	-ixed	1.//	268.55	89.80
J-4415	62	Zone - 3	EG	Fixed	1.77	268.56	89.37
<u>J-4416</u>	68	Zone - 3	EG	Fixed	1.77	268.56	86.77
J-4417	74	Zone - 3	EG		1.77	208.55	04.17
J-4418	51	Zone - 3	EG	Fixed	1.77	268.59	94.14
<u>J-4419</u>	70	Zone - 3	EG	Fixed	1.77	208.01	00.93
<u>J-4420</u>	73	Zone - 3	EG	Fixed	1.//	200.00	04.00
J-4421	71	Zone - 3	EG	Fixed	1.//	208.71	00.04
J-4422	75	Zone - 3	EG	Fixed	1.77	208.00	03.00
J-4423	75	Zone - 3	EG	Fixed	1.//	268.68	83.80
J-4424	76	Zone - 3	EG	Fixed	1.77	208.08	03.30
J-4425	68	Zone - 3	EG	Fixed	1.//	268.68	80.83
<u>J-4426</u>	50	Zone - 3	EG	Fixed	1.//	208.08	94.01
J-4427	76	Zone - 3	EG	Fixed	4 77	200.70	03.40
J-4428	73	Zone - 3	<u>EG</u>	Fixed	1.77	200.70	02.05
J-4429	51	Zone - 3	<u> </u>	Fixed	1.//	200.14	87.53
J-4430	78	Zone - 3	<u>EG</u>	FIXED	1.(1	200.70	02.00
J-4431	52	Zone - 3	EG		1.//	200.10	00.10
J-4432	55	Zone - 3	EG	-ixed		208.08	77 40
J-4433	89	Zone - 3	EG	-ixed	1.//	208.07	97.00
J-4434	67	Zone - 3	<u>EG</u>	Fixed	1.//	200.00	76.62
J-4435	91	Zone - 3	<u>EG</u>	Fixed	1.(/	200.09	86.93
J-4436	68	20ne - 3	<u>EG</u>	Fixed	1.11	200.09	86.40
<u>J-4437</u>	69	Zone - 3	<u>EG</u>	Fixed	1 77	268.19	56 32
J-4438	138	Zone - 3		Fixed	1 77	268.76	82.52
J-4439	18	20ne - 3	<u> </u>	Fixed	1 77	268 76	82.53
J-4440	/8	Zone - 3	<u> </u>	Fived	1.77	268.76	54 41
<u>J-4441</u>	143	Zone - 3		Fived	1 77	268.08	54 12
J-4442	143	Zone - 3	EG EG	Fired	1 77	268.11	51.97
J-4443	148	2008.3	<u>E0</u>	Fixed	1 77	268.03	71.83
J-4444	102	ZONE - 3	EG	Fixed	1.77	268.03	74.43
<u></u>	96	Zone - 3	<u> </u>	Fixed	1.77	268.03	61.88
J-4446	125		<u> </u>	Fived	1 77	268.03	66.64
J-4447	114	Zone - 3	<u> </u>	Fixed	1 77	268.07	57.57
	135	Zone - 3	<u> </u>	Fixed	1 77	268.03	62.75
	123	Zone - 3	<u> </u>	Fired	1 77	268.03	62.75
	123	Zone - 3	EG	Fired	1 77	268.03	72.70
<u>J-4451</u>	100	Zone - 3	<u> </u>	Fixed	1 77	268.10	50.23
<u>J-4452</u>	152		<u> </u>	T MOU	1		

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		1			Demand (Calculated)	Calculated Hydraulic	Pressure
i abel	Elevation (ft)	7000	Notes	Pattern	(apm)	Grade (ft)	(osi)
.1-4453	152	Zone - 3	EG	Fixed	1.77	268.10	50.23
J-4454	146	Zone - 3	EG	Fixed	1.77	268.03	52.80
J-4455	134	Zone - 3	EG	Fixed	1.77	268.03	57.99
J-4456	123	Zone - 3	EG	Fixed	1.77	268.01	62.74
J-4457	148	Zone - 3	. EG	Fixed	1.77	268.03	51.93
J-4458	147	Zone - 3	EG	Fixed	1.77	268.10	52.39
J-4459	134	Zone - 3	EG	Fixed	1.77	268.10	58.02
J-4460	115	Zone - 3	EG	Fixed	1.77	267.90	66.15
J-4461	112	Zone - 3	EG	Fixed	1.77	267.88	67.44
J-4462	100	Zone - 3	EG	Fixed	1.77	267.84	72.62
J-4463	52	Zone - 3	EG	Fixed	1.77	267.80	93.37
J-4464	42	Zone - 3	EG	Fixed	1.77	267.81	97.70
J-4465	35	Zone - 3	EG	Fixed	1.77	267.79	100.72
J-4466	33	Zone - 3	EG	Fixed	1.77	267.79	101.58
J-4467	28	Zone - 3	EG	Fixed	1.77	267.79	103.75
J-4468	128	Zone - 3	EG	Fixed	1.77	268.03	60.80
J-4469	124	Zone - 3	EG	Fixed	1.77	268.02	62.31
J-4470	111	Zone - 3	EG	Fixed	1.77	267.98	67.92
J-4471	118	Zone - 3	EG	Fixed	1.77	267.98	64.89
J-4472	123	Zone - 3	EG	Fixed	1.77	268.00	62.73
J-4473	92	Zone - 3	EG	Fixed	1.77	267.93	76.12
J-4474	92	Zone - 3	EG	Fixed	1.77	267.93	76.12
J-4475	91	Zone - 3	EG	Fixed	1.77	267.92	76.54
J-4476	98	Zone - 3	EG	Fixed	1.77	267.93	73.52
J-4477	108	Zone - 3	EG	Fixed	1.77	267.97	69.21
J-4478	112	Zone - 3	EG	Fixed	1.77	268.17	67.57
J-4479	75	Zone - 3	EG	Fixed	1.77	267.96	83.49
J-4480	78	Zone - 3	EG	Fixed	1.77	267.93	82.17
J-4481	68	Zone - 3	EG	Fixed	1.77	267.92	86.49
J-4482	71	Zone - 3	EG	Fixed	1.77	267.88	85.18
J-4483	64	Zone - 3	EG	Fixed	1.77	267.89	88.22
J-4484	63	Zone - 3	EG	Fixed	1.77	267.84	88.62
J-4485	57	Zone - 3	EG	Fixed	1.77	267.84	91.22
J-4486	59	Zone - 3	EG	Fixed	1.77	267.84	90.35
J-4487	56	Zone - 3	EG	Fixed	1.77	267.84	91.65
J-4488	51	Zone - 3	EG	Fixed	1.77	267.84	93.81
J-4489	53	Zone - 3	EG	Fixed	1.77	267.84	92.95
J-4490	65	Zone - 3	EG	Fixed	1.77	267.87	87.77
J-4491	134	Zone - 3	EG	Fixed	1.77	268.11	58.02
J-4492	134	Zone - 3	EG	Fixed	1.77	268.17	58.05
J-4493	86	Zone - 3	EG	Fixed	1.77	267.87	78.69
J-4494	106	Zone - 3	EG	Fixed	1.77	267.87	70.03
J-4495	76	Zone - 3	EG	Fixed	1.77	267.87	83.01
J-4496	102	Zone - 3	EG	Fixed	1.77	267.88	71.77
J-4497	102	Zone - 3	EG	Fixed	1.77	267.88	/1.77
J-4498	63	Zone - 3	EG	Fixed	1.77	267.85	88.63
J-4499	39	Zone - 3	EG	-ixed	1.77	267.81	99.00
J-4500	27	Zone - 3	EG	-ixed	1.//	207.77	104.17
J-4501	27	Zone - 3	EG	Fixed	1.77	267.76	104.16
J-4502	26	Zone - 3	EG	-ixed	1.77	267.73	104.58
J-4503	31	Zone - 3	EG		1.//	207.72	102.42
<u>J-4504</u>	34	Zone - 3	EG	Fixed	1.//	201.12	102.12
J-4505	18	Zone - 3	EG	Fixed	1.//	201.13	89.20
J-4506	64	Zone - 3	EG	r IXOO	1.77	207.80	101.10
J-4507	34	Zone - 3	EG	Fixed	1.11	201.01	106.76
J-4508	21	Zone - 3		Fixed	1.11	201.10	106.70
J-4509	21	Zone - 3		Fixed	1.//	201.10	108.01
J-4510	16	Zone - 3	<u> </u>	Fixed	1.//	201.12	111 07
J-4511	$+ \frac{11}{50}$	20ne - 3	EG	Eived	1.11	267.82	90.35
J-4512		Zone - 3	<u>EG</u>	Eived	1.11	267.83	90.35
J-4513	59	Zone - 3	<u> </u>	Fixed	1.77	267.83	97 27
J-4514	43	<u> zone - 3</u>	EG	I LIYAG	1 1.11	201.00	1 21 21

		<u> </u>		<b></b>	Demand	Calculated	
					(Calculated)	Hydraulic	Pressure
Label	Elevation (ft)	Zone	Notes	Pattern	(apm)	Grade (ft)	(psi)
1.4515	36	Zone - 3	FG	Fixed	1.77	267.79	100.29
1-4516	36	Zone - 3	FG	Fixed	1.77	267.79	100.29
1-4517	43	Zone - 3	FG	Fixed	1.77	267.82	97.27
1.4518	37	Zone - 3	FG	Fixed	1 77	267.82	99.86
1 4510	37	Zone - 3	<u> </u>	Fixed	1 77	267.76	102.00
14520	32	Zone - 3	EG	Fixed	1.77	267 73	101.99
14520	32	Z000 - 3		Fixed	1.77	267.82	105.05
J-4321	20	Zone - 3	<u> </u>	Fixed	1.77	267.72	105.02
14022	20	Zone 2	<u> </u>	Fixed	1 77	267 72	105.02
J-4020	23	Zone - 3	EG	Fixed	1 77	267.72	106.75
J-4524	21	Zone - 3	<u> </u>	Fixed	1.77	267.72	108.04
J-4525	18	Zone - 3	EG	Eived	1.77	267.72	110.04
J-4526	13	Zone - 3	EG	Eived	1.77	267.72	107.18
J-4527	20	Zone - 3	EG	Fixed	1.77	207.72	03.38
J-4528	52	Zone - 3	<u>EG</u>	Fixed	1.77	207.03	90.70
J-4529	58	Zone - 3	EG		4.77	201.03	01.65
J-4530	56	Zone - 3	EG	Fixed	1.11	207.03	91.00
<u>J-4531</u>	28	Zone - 3	<u>EG</u>	FIXED	4 77	201.12	00 44
J-4532	38	Zone - 3	EG	Fixed		207.04	99.44
J-4533	68	Zone - 3	EG	rixed	1.//	207.88	00.40
J-4534	63	Zone - 3	EG	Fixed	1.77	267.86	00.03
J-4535	65	Zone - 3	EG	Fixed	1.77	267.86	87.77
J-4536	62	Zone - 3	EG	Fixed	1.77	267.86	89.06
J-4537	62	Zone - 3	EG	Fixed	1.77	267.85	89.06
J-4538	53	Zone - 3	EG	Fixed	1.77	267.85	92.96
J-4539	62	Zone - 3	EG	Fixed	1.77	267.85	89.06
J-4540	58	Zone - 3	EG	Fixed	1.77	267.84	90.79
J-4541	58	Zone - 3	EG	Fixed	1.77	267.84	90.79
J-4542	53	Zone - 3	EG	Fixed	1.77	267.79	92.93
J-4543	201	Zone - 1	EG	Fixed	1.77	331.09	56.28
J-4544	201	Zone - 3	EG	Fixed	1.77	269.57	29.67
J-4545	300	Zone - 2	EG	Fixed	1.77	494.95	84.35
J-4546	148	Zone - 1	EG	Fixed	1.77	331.04	79.19
J-4547	148	Zone - 3	EG	Fixed	1.77	269.42	52.53
J-4548	80	Zone - 3	EG	Fixed	1.77	268.03	81.35
1-4549	130	Zone - 3	EG	Fixed	1.77	268.03	59.72
1-4550	105	Zone - 3	EG	Fixed	1.77	267.91	70.48
1-4551	63	Zone - 3	EG	Fixed	1.77	267.88	88.64
1_4552	65	Zone - 3	EG	Fixed	1.77	267.84	87.76
1.4553	55	Zone - 3	EG	Fixed	1.77	267.84	92.09
1.4554	50	Zone - 3	EG	Fixed	1.77	267.84	94.25
1.4666	1.00	7000-3	FG	Fixed	1.77	267.89	88.21
14550		7000-2	EC	Fired	1.77	267.89	94.27
1 4557		7000-2	EG EG	Fixed	1.77	267.88	94.27
J-4007	70	7000 2	<u> </u>	Fixed	1.77	268.76	84.70
J-4550		Zone - 2	FC	Fixed	1.77	268.61	73.81
J-4009	90	7000 4	<u> </u>	Fixed	1 77	332.84	38.87
J-4560	243	Zone - 1	E0	Fived	1 77	332.95	38.92
J-4561	243		<u> </u>	Fived	1 77	332.96	38.92
J-4562	243	20ne - 1	<u> </u>	Fived	1 77	332.96	38.92
J-4563	243	Zone - 1	<u> </u>	Fixed	1 77	332.07	38.93
J-4564	243	Zone - 1	EG	Eixed	4 77	267.79	103 75
J-4565		Zone - 3	<u> </u>	Fixed	1.77	AQ7 A9	132 17
J-4566	189	Zone - 2		Fixed	1.(1	<u></u>	132.17
J-4567	189	Zone - 2	<u>EG</u>	Fixed	4.77	222 14	26.88
J-4568	270	Zone - 1	EG	Fixed		222.14	26.00
J-4569	247	Zone - 1	EG	rixeo	1.11	322.18	36.86
J-4570	247	Zone - 1	EG	Fixed	4 77	222.18	36.86
J-4571	247	Zone - 1	EG	FIXED	1.//	322.18	38.35
J-4572	247	Zone - 1	EG	-ixed	1.//	222.18	59.00
J-4573	197	Zone - 1	EG	rixed	1.//	202.01	62 27
J-4574	124	Zone - 3	<u> </u>	rixed	1.11	200.10	122.37
J-4575	30	Zone - 1	EG	Fixed	1.//	333.41	122.13
	30	Zone - 1	EG	Fixed	1.//	335.44	132.13

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					Demand (Calculated)	Calculated Hydraulic	Pressure
Label	Elevation (ft)	Zone	Notes	Pattern	(gpm)	Grade (ft)	(psi)
J-4577	30	Zone - 1	EG	Fixed	1.77	335.41	132.13
J-4578	50	Zone - 1	EG	Fixed	1.77	336.21	123.83
J-4579	64	Zone - 3	EG	Fixed	1.77	267.84	88.19
J-4580	64	Zone - 3	EG	Fixed	1.77	267.86	88.20
J-4581	174	Zone - 1	EG ON Semiconductor	Fixed	299.34	331.86	68.30
J-4582	243	Zone - 1	EG Amtrol Inc.	Fixed	55.20	332.86	38.88
J-4583	148	Zone - 3	EG Edens & Avent	Fixed	22.63	269.31	52.49
J-4584	64	Zone - 3	EG Wholesale to Warwick	Fixed	150.66	267.75	88.15
J-4585	312	Zone - 2	EG	Fixed	1.77	494.94	79.15
J-4586	312	Zone - 2	EG	Fixed	0.00	494.94	79.15
J-4587	144	Zone - 1	EG	Fixed	0.00	333.39	81.94
J-4588	147	Zone - 1	EG	Fixed	1.33	333.39	80.64
J-4589	128	Zone - 1	EG	Fixed	1.33	333.39	88.86
J-4590	128	Zone - 1	EG	Fixed	1.33	333.39	88.86
J-4591	118	Zone - 1	EG	Fixed	1.33	333.39	93.19
J-4592	137	Zone - 1	EG	Fixed	1.33	333.39	84.97
J-4593	148	Zone - 1	EG	Fixed	1.33	333.39	80.21
J-4594	148	Zone - 1	EG	Fixed	1.33	333.39	80.21
J-4595	138	Zone - 1	EG	Fixed	1.33	333.39	84.53
J-4596	138	Zone - 1	EG	Fixed	1.33	333.39	84.53
J-4597	142	Zone - 1	EG	Fixed	1.33	333.39	82.80
J-4598	312	Zone - 2	EG	Fixed	0.00	494.94	79.15
J-4599	243	Zone - 2	EG	Fixed	0.00	494.93	109.00
J-4600	274	Zone - 2	EG	Fixed	0.00	494.93	95.59
J-4601	274	Zone - 2	EG	Fixed	3.47	494.93	95.59
J-4602	243	Zone - 2	EG	Fixed	0.00	494.93	109.00
J-4603	260	Zone - 2	EG	Fixed	0.00	494.93	101.64
J-4604	266	Zone - 2	EG	Fixed	0.00	494.93	99.05
J-4605	258	Zone - 2	EG	Fixed	0.00	494.93	102.51
J-4606	252	Zone - 2	EG	Fixed	0.00	494.93	105.10
J-4607	262	Zone - 2	EG	Fixed	0.00	494.93	100.78
1-4608	272	Zone - 2	EG	Fixed	0.00	494.93	96.45
1-4609	268	Zope - 2	EG	Fixed	0.00	494.93	98.18
J-4610	265	Zone - 2	EG	Fixed	0.00	494.93	99.48
L4611	264	Zone 2	FG	Fixed	0.00	494.93	99.91
1_4612	258	Zone - 2	FG	Fixed	0.00	494.93	102.51
1 4612	200	Zone - 2	FG	Fixed	0.00	494.93	100.78
1.4614	262	7000-2	FG	Fixed	0.00	494.93	100.78
1_4014	202	7000-2	FG	Fixed	0.00	494.93	104.24
1 4010	204	7000-2	EO	Fixed	0.00	494.93	104.67
J-4010	203	7000 2	<u>E0</u>	Fixed	0.00	494.93	102.51
J-401/	200	7000 0	EQ	Fixed	0.00	494.93	116.35
J-4018	220	7000 2		Fixed	0.00	494.93	114.62
14019	230	7000 2	EG	Fired	0.00	494.93	102.51
J-4620	258	Zone - 2		Fixed	0.00	494.93	106.84
J-4021	248	7000 2	<u> </u>	Fixed	0.00	494.93	104.24
J-4022	204	Zone - Z	E0	Fixed	0.00	332.75	35.80
J-4023	200		FG	Fixed	0.00	332.75	35.80
J-4024	200		<u> </u>	Fixed	0.00	332.75	24.98
J-4625	2/5	Zone - 1	<u>E0</u>	Fixed	0.00	332.29	44.26
J-4026	230	Zone - 1	<u> </u>	Fived	0.00	332.29	44.26
J-4627	230	20ne - 1		Fived	0.00	332 29	44.26
J-4628	230		<u> </u>	Fixed	0.00	598.96	155.30
J-4629	240	Zone - 1	<u> </u>	Fived	0.00	598.96	147.95
J-4630	257	Zone - 1	<u> </u>	Eived	0.00	598.96	150.11
J-4631	252	Zone - 1	<u>EU</u>	Eived		332.20	39.93
J-4632	240	Zone - 1	<u>EG</u>	Fixed		332.20	32 14
J-4633	258	Zone - 1			0.00	332.28	34 74
J-4634	252	Zone - 1	EG		0.00	509.04	155.30
J-4635	240	Zone - 1	EG	Fixed	0.00	5090.80	150.50
J-4636	251	Zone - 1	EG		0.99	090.90	148.82
J-4637	255	Zone - 1	EG		0.89	390.90	150.02
J-4638	250	Zone - 1	EG	Fixed	0.00	080.80	100.90

					Demand (Calculated)	Calculated Hydraulic	Pressure
Labei	Elevation (ft)	Zone	Notes	Pattern	(gpm)	Grade (ft)	(psi)
J-4639	250	Zone - 1	EG	Fixed	0.00	598.96	150.98
J-4640	299	Zone - 1	EG	Fixed	0.99	332.29	14.40
J-4641	303	Zone - 1	EG	Fixed	0.99	332.29	12.67
J-4642	102	Zone - 3	EG	Fixed	1.77	267.85	71.75
J-4643	38	Zone - 3	EG	Fixed	1.77	267.84	99.44
J-4644	250	Zone - 1	EG	Fixed	0.00	332.75	35.80
J-4645	260	Zone - 2	EG	Fixed	0.93	494.80	101.59
J-4646	280	Zone - 2	EG	Fixed	0.93	494.80	92.93
J-404/	280	Zone - Z	<u> </u>	Fixed	0.93	494.80	92.93
1 4640	312	Zone - 2	<u> </u>	Fixed	1.70	494.94	79.13
1_4650	312	Zone - 2	EG	Fixed	1.70	494.94	79.15
J-4651	312	Zone - 2	<u>EG</u>	Fixed	1.70	494.94	79.15
1-4652	312	Zone - 2	<u> </u>	Fixed	1 78	494.94	79.15
1-4653	312	Zone - 2	EG	Fixed	1.73	494 94	79 15
1-4654	312	Zone - 2	EG EG	Fixed	3.89	494 94	79 15
1-4655	312	Zone - 2	FG	Fixed	3.89	494 94	79.15
J-4656	242	Zone - 2	FG	Fixed	2.22	494.48	109.24
J-4657	242	Zone - 2	EG	Fixed	2.22	494.48	109.24
J-4658	242	Zone - 2	EG	Fixed	2.22	494.48	109.24
J-4659	242	Zone - 2	EG	Fixed	1.77	494.48	109.24
J-4660	242	Zone - 2	EG	Fixed	1.77	494.48	109.24
J-4661	242	Zone - 1	EG	Fixed	1.77	332.14	39.00
J-4662	300	Zone - 2	EG	Fixed	3.48	494.76	84.26
J-4663	300	Zone - 2	EG	Fixed	3.48	494.76	84.26
J-4664	325	Zone - 2	EG	Fixed	3.48	494.76	73.45
J-4665	302	Zone - 2	EG	Fixed	3.48	494.76	83.40
J-4666	303	Zone - 2	EG	Fixed	3.48	494.76	82.97
J-5000	90	Zone - 5	CRA	Fixed	1.48	230.90	60.96
J-5001	92	Zone - 5	CRA	Fixed	1.48	230.90	60.10
J-5002	86	Zone - 5	CRA	Fixed	1.48	230.90	62.69
J-5003	95	Zone - 5	CRA	Fixed	1.48	230.90	58.80
J-5004	99	Zone - 5	CRA	Fixed	1.48	230.90	57.07
J-5005	89	Zone - 5	CRA	Fixed	1.48	230.90	61.39
J-5006	96	Zone - 5	CRA	Fixed	1.48	230.90	58.37
J-5007	88	Zone - 5	CRA	Fixed	1.48	230.90	61.83
J-5008	96	Zone - 5	CRA	Fixed	1.48	230.90	58.37
J-5009	89	Zone - 5		Fixed	1.48	230.90	61.39
J-5010	84	Zone 5	CRA	FIXED	1.48	230.90	03.50
J-5011	81	Zone - 5	CKA	Fixed	1.48	230.90	04.60
J-5012	88	20ne - 5		FIXED	1.48	230.90	70.04
J-5013	0/			Fixed	1.40	230.90	67.45
J-5014	(5)	2008-5		Fixed	1.48	230.90	64.40
J-3015	70	Zone - 5		Fixed	1.40	230.90	69.62
1-5010	52	Zone - 5		Fixed	1 48	230.91	77.40
1-5017	59	Zone - 5	CRA	Fixed	1.48	230.91	74.38
.1-5019	88	Zone - 5	CRA	Fixed	1.48	230.91	71.35
J-5020	52	Zone - 5	CRA	Fixed	1.48	230.90	77 40
1-5021	52	Zone - 5	CRA	Fixed	1.48	230.89	77.40
J-5022	51	Zone - 5	CRA	Fixed	1.48	230.83	77.80
J-5023	53	Zone - 5	CRA	Fixed	1.48	230.83	76.94
J-5024	60	Zone - 5	CRA	Fixed	1.48	230.67	73.84
J-5025	56	Zone - 5	CRA	Fixed	1.48	230.80	75.63
J-5026	71	Zone - 5	CRA	Fixed	1.48	230.80	69.14
J-5027	60	Zone - 5	CRA	Fixed	1.48	230.80	73.90
J-5028	81	Zone - 5	CRA	Fixed	1.48	230.79	64.81
J-5029	71	Zone - 5	CRA	Fixed	1.48	230.79	69.14
J-5030	54	Zone - 5	CRA	Fixed	1.48	230.79	76.49
J-5031	56	Zone - 5	CRA	Fixed	1.48	230.79	75.63
J-5032	54	Zone - 5	CRA	Fixed	1.48	230.80	76.49
J-5033	52	Zone - 5	CRA	Fixed	1.48	230.80	77.36

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					Demand (Calculated)	Calculated Hydraulic	Pressure
Label	Elevation (ft)	Zone	Notes	Pattern	(gpm)	Grade (ft)	(psi)
J-5034	56	Zone - 5	CRA	Fixed	1.48	230.79	75.62
J-5035	58	Zone - 5	CRA	Fixed	1.48	230.79	74.76
J-5036	66	Zone - 5	CRA	Fixed	1.48	230.79	71.30
J-5037	69	Zone - 5	CRA	Fixed	1.48	230.79	70.00
J-5038	69	Zone - 5	CRA	Fixed	1.48	230.79	70.00
J-5039	65	Zone - 5	CRA	Fixed	1.48	230.91	71.78
J-5041	60	Zone - 5	CRA	Fixed	1.48	230.92	73.95
J-5042	78	Zone - 5	CRA	Fixed	1.48	230.92	66.16
J-5044	75	Zone - 5	CRA	Fixed	1.48	230.91	67.46
1-5045	88	Zone - 5	CRA	Fixed	1.48	230.91	61.83
1-5046	72	Zope - 5	CRA	Fixed	1.48	230.84	68.72
1-5047	56	Zone - 5	CRA	Fixed	1.48	230.84	75.65
1-5048	72	Zone - 5	CRA	Fixed	1.48	230.82	68.71
1-5040	56	Zone - 5	CRA	Fixed	1.48	230.82	75.64
1.6050	71	Zone - 5	CRA	Fixed	1.48	230.77	69.13
1-0000	66	2010-5	CRA	Fived	1.48	230.64	71 23
J-3031	00	Zone - 5		Fived	1.40	230.80	71.30
J-3032	00	Zone 5		Fixed	1 48	230.80	71.30
J-0003	00	Zone - 5		Fived	1 49	230.00	70.43
J-5054	80	20ne - 5		Eivad	1.40	230.00	75.63
J-5055	56	20ne - 5		Fixed	1,40	230.00	70.03
J-5056	6/	Zone - 5	CRA	Fixed	1.40	230.00	70.07
J-5057	68	Zone - 5	CRA	Fixed	1.48	230.50	70.33
J-5058	68	Zone - 5	CRA	Fixed	1.48	230.44	70.20
J-5059	55	Zone - 5	CRA	FIXED	1.48	230.40	(5.69
J-5060	54	Zone - 5	CRA	Fixed	1.48	230.40	/6.32
J-5061	76	Zone - 5	CRA	Fixed	1.48	230.28	66.75
J-5062	72	Zone - 5	CRA	Fixed	1.48	230.25	68.47
J-5063	68	Zone - 5	CRA	Fixed	1.48	230.23	70.19
J-5064	55	Zone - 5	CRA	Fixed	1.48	230.23	75.82
J-5065	62	Zone - 5	CRA	Fixed	1.48	230.25	72.79
J-5066	60	Zone - 5	CRA	Fixed	1.48	230.25	73.66
J-5067	60	Zone - 5	CRA	Fixed	1.48	230.25	73.66
J-5068	70	Zone - 5	CRA	Fixed	1.48	230.28	69.35
J-5069	66	Zone - 5	CRA	Fixed	1.48	230.45	71.15
J-5070	68	Zone - 5	CRA	Fixed	1.48	230.45	70.28
1-5071	69	Zone - 5	CRA	Fixed	1.48	229.66	69.51
1-5072	76	Zone - 5	CRA	Fixed	1.48	230.46	66.83
1-5073	73	Zone - 5	CRA	Fixed	1,48	230.47	68.13
1 5074	78	Zone - 5	CRA	Fixed	1.48	230.46	65.96
1-5074	- 10 AA	7000-5	CRA	Fixed	1.48	230.23	71.92
1-5070	E0	7000 5		Fixed	1 48	230.23	77.98
J-5077		20110-3		Fived	1 48	230.23	69.76
J-5077	69	Z0118 - 5		Fived	1 48	230.23	75.81
J-50/8	55	Zone - 5		Elyad	1.40	230.20	73.65
J-5079	60	<u>∠one - 5</u>		Eivad	1.40	230.23	77 08
J-5080	50	Zone - 5		Fixed	1.40	230.23	77 11
J-5081	52	Zone - 5		FIXED	1.40	230.23	AR 72
J-5082	76	Zone - 5	CRA	rixeo	1.48	230.23	77.00
J-5083	50	Zone - 5	CRA	Fixed	1.48	230.23	70.60
J-5084	67	Zone - 5	CRA	Fixed	1.48	230.23	70.62
J-5085	67	Zone - 5	CRA	Fixed	1.48	230.23	65.00
J-5086	80	Zone - 5	CRA	Fixed	1.48	230.90	05.29
J-5087	73	Zone - 5	CRA	Fixed	1.48	230.90	68.32
J-5088	60	Zone - 5	CRA	Fixed	1.48	230.90	13.94
J-5089	60	Zone - 5	CRA	Fixed	1.48	230.90	/3.94
J-5090	73	Zone - 5	CRA	Fixed	1.48	230.90	68.32
J-5091	66	Zone - 5	CRA	Fixed	1.48	230.90	71.34
J-5092	60	Zone - 5	CRA	Fixed	1.48	230.90	73.94
J-5093	60	Zone - 5	CRA	Fixed	1.48	230.90	73.94
J-5094	62	Zone - 5	CRA	Fixed	1.48	230.90	73.08
J-5095	50	Zone - 5	CRA	Fixed	1.48	230.90	78.27
J-5096	77	Zone - 5	CRA	Fixed	1.48	230.49	66.41
J-5097	89	Zone - 5	CRA	Fixed	1.48	230.48	61.21

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					Demand	Calculated	
					(Calculated)	Hydraulic	Pressure
i abel	Elevation (ft)	7ове	Notes	Pattern	(map)	Grade (ft)	(psi)
1-5098	50	Zone - 5	CRA	Fixed	1.48	230.27	77.99
1-5099	76	Zone - 5	CRA	Fixed	1.48	230.27	66.74
J-5100	70	Zope - 5	CRA	Fixed	1.48	230.27	69.34
J-5101	67	Zone - 5	CRA	Fixed	1.48	230.27	70.64
1-5102	60	Zone - 5	CRA	Fixed	1.48	230.27	73.67
1-5103	60	Zone - 5	CRA	Fixed	1.48	230.27	73.67
1-5104	52	Zone - 5	CRA	Fixed	1.48	230.27	77.13
1-5105	50	Zone - 5	CRA	Fixed	1.48	230.27	77.99
16106	61	Zone - 5	CPA	Fixed	1.10	230 27	73.23
1-5107	50	Zone - 5	CRA	Fixed	1 48	230.27	77.99
1-5108	70	Zone - 5	CRA	Fixed	1 48	230.27	69.34
15100	57			Fixed	1 48	230.27	74 97
15111	104	Zone - 5	CRA	Fixed	1.48	404 19	90.94
J-0111	240	Zone - 1		Fixed	1.48	404.10	71 04
J-0112	104	Z010 - 1		Fixed	1.40	404.19	90.94
J-0110	194	Zone - 1		Fixed	1.40	404.10	75.29
J-0114	230			Fixed	1.40	404.01	62 31
J-5115	200	Zone - 1		Fixed	1.40	403.02	53.18
J-0130	281			Fixed	1.40	555 07	102.00
3-5117	320			Eivad	1.40	388 41	82 38
J-5118	198	Zone - 1		Fixed	1.40	200.41	50.99
J-5119	250			Fixed	1.40	555 00	118.00
J-5120	281	Zone - 8		Fixed	1.40	555.07	119.07
J-5121	281	Zone - 8		Fixed	0.00	403.00	53.17
J-5122	281	Zone - 1		Fixed	0.00	403.90	<u> </u>
J-5124	250	Zone - 1		Fixed	0.00	404.19	72 07
J-5125	60	Zone - 5		Fixed	1.40	230.90	56 21
J-5126	101	Zone - 5		Fixed	1.40	230.91	72.21
J-5127	60	Zone - 5		Fixed	1.48	229.43	13.31
J-5128	71	Zone - 5	CRA	Fixed	1.48	230.91	69.19
J-5129	260	Zone - 1		Fixed	1.48	404.01	106.07
J-5130	155	Zone - 1	CRA Arkwright Interlaken	Fixed	22.14	400.10	100.07
J-5131	76	Zone - 5	CRA	Fixed	1.07	230.40	00.03
J-5132	78	Zone - 5	CRA	Fixed	1.67	230.48	00.97
J-5133	88	Zone - 5	CRA	Fixed	1.48	230.90	01.03
J-6000	245	Zone - 1	SCIT	Fixed	1.23	402.34	68.08
J-6001	270	Zone - 1	SCIT	Fixed	1.23	402.35	57.26
J-6002	240	Zone - 1	SCIT	Fixed	1.23	402.35	70.24
J-6003	271	Zone - 1	SCIT	Fixed	1.23	402.35	56.83
J-6004	271	Zone - 1	SCIT	Fixed	1.23	402.35	56.83
J-6005	210	Zone - 1	SCIT	Fixed	1.23	402.35	83.22
J-6006	210	Zone - 1	SCIT	Fixed	1.23	402.35	83.22
J-6007	258	Zone - 1	SCIT	Fixed	1.23	402.37	62.46
J-6008	221	Zone - 1	SCIT	Fixed	1.23	402.61	78.57
J-6009	237	Zone - 1	SCIT	Fixed	1.23	402.60	71.65
J-6010	202	Zone - 1	SCIT	Fixed	1.23	402.66	86.82
J-6011	205	Zone - 1	SCIT	Fixed	1.23	402.48	85.44
J-6012	219	Zone - 1	SCIT	Fixed	1.23	401.98	79.17
J-6013	195	Zone - 1	SCIT	Fixed	1.23	395.64	86.81
J-6014	202	Zone - 1	SCIT	Fixed	1.23	395.35	83.65
J-6015	241	Zone - 1	SCIT	Fixed	1.23	395.35	66.78
J-6017	249	Zone - 1	SCIT	Fixed	1.23	395.35	63.32
J-6018	231	Zone - 1	SCIT	Fixed	1.23	395.35	71.10
J-6019	270	Zone - 1	SCIT	Fixed	1.23	395.35	54.23
J-6020	211	Zone - 1	SCIT	Fixed	1.23	404.36	83.66
J-6021	200	Zone - 1	SCIT	Fixed	1.23	404.32	88.40
J-6022	228	Zone - 1	SCIT	Fixed	1.23	404.32	76.29
J-6023	223	Zone - 1	SCIT	Fixed	1.23	404.32	78.45
J-6024	240	Zone - 1	SCIT	Fixed	1.23	404.32	71.09
J-6025	230	Zone - 1	SCIT	Fixed	1.23	404.32	75.42
J-6026	276	Zone - 1	SCIT	Fixed	1.23	404.32	55.52
J-6027	222	Zone - 1	SCIT	Fixed	1.23	404.22	78.84
J-6028	224	Zone - 1	SCIT	Fixed	1.23	404.22	77.97
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	i	1			Demand	Calculated	]
					(Caiculated)	Hydraulic	Pressure
Label	Elevation (ft)	Zone	Notes	Pattern	(gpm)	Grade (ft)	(psi)
J-6029	210	Zone - 1	SCIT	Fixed	1.23	404.22	84.03
J-6030	210	Zone - 1	SCIT	Fixed	1.23	404.22	84.03
J-6031	231	Zone - 1	SCIT	Fixed	1.23	404.22	74.94
J-6032	235	Zone - 1	SCIT	Fixed	1.23	404.22	73.21
1-6033	235	Zone - 1	SCIT	Fixed	1.23	404.19	73.20
1-6036	192	Zone - 1	SCIT	Fixed	0.00	405.12	92.21
1-6037	180	Zone - 1	SCIT	Fixed	1.23	404.58	97.16
1-6038	180	Zone - 1	SCIT	Fixed	1.23	404.53	97.14
1-6030	158	Zone - 1	SCIT	Fixed	1.23	400.54	104.93
1-6040	178	Zone - 1	SCIT	Fixed	1.23	404.02	97.79
1-60/1	174	Zone - 1	SCIT	Fixed	1.23	403.54	99.31
16043	169	Zone - 1	SCIT	Fixed	1 23	403.30	101.37
1 6045	179	Zone - 1	SCIT	Fixed	1.23	395 29	93.58
1-0043	169	Zone - 1	SCIT	Fixed	1 23	403.86	102.05
J-0047	100	Zone 1	SOIT	Fixed	1.23	403.86	100 32
J-0040	405	Zone - 1	SCIT	Fixed	1.20	403.73	103.29
J-0049	100	Zone • I	SCIT	Fixed	1.23	403.73	103.20
1-0000	100	Zone - 1		Elvod	1.2.3	403.75	00.20
1-0051	1/4			Fixed	1.23	400.89	97 72
<u>J-6053</u>	1/5			Eivad	1.22	404 30	83.67
J-6054	211	Zone - 1		Fixed	1.23	222.00	22.40
J-6055	182	Zone - 1		Eived	0.00	405 12	02 24
J-6056	192	Zone - 1		Fixed	0.00	405.13	92.21
J-6057	192	Zone - 1	SCII	Fixed	0.00	405.14	92.21
J-6058	192	Zone - 1	SCI	Fixed	0.00	403.14	92.22
J-6059	192	Zone - 1	SCIT	Fixed	0.00	405.14	92.22
J-6060	182	Zone - 1	SCII		0.00	233.70	22.37
J-6061	182	Zone - 1	SCII	Fixed	0.00	233.09	22.37
J-6062	182	Zone - 1	SCII	Fixed	0.00	233.09	22.37
J-6063	182	Zone - 1	SCIT	Fixed	0.00	233.69	22.37
J-6064	210	Zone - 1	SCIT		1.23	402.35	03.22
J-6065	210	Zone - 1	SCIT	Fixed	1.23	402.35	03.22
J-6066	225	Zone - 1	SCIT	Fixed	1.23	402.32	10.72
J-6067	210	Zone - 1	SCIT	Fixed	1.23	402.33	83.21
J-6068	254	Zone - 1	SCIT	Fixed	1.23	399.43	62.92
J-6069	250	Zone - 1	SCIT	Fixed	1.23	399.43	64.65
J-6070	256	Zone - 1	SCIT	Fixed	1.23	399.43	62.05
J-6071	211	Zone - 1	SCIT	Fixed	0.00	395.29	79.74
J-6072	205	Zone - 1	SCIT	Fixed	0.00	395.29	82.33
J-6073	219	Zone - 1	SCIT	Fixed	0.00	395.29	76.27
J-6074	220	Zone - 1	SCIT	Fixed	0.00	395.29	75.84
J-6075	169	Zone - 1	SCIT	Fixed	0.00	402.81	101.16
J-6076	192	Zone - 1	SCIT	Fixed	0.00	234.00	18.17
J-6077	182	Zone - 1	SCIT	Fixed	0.00	395.29	92.28
J-6078	192	Zone - 1	SCIT	Fixed	0.00	234.00	18.17
J-6079	182	Zone - 1	SCIT	Fixed	0.00	395.29	92.28
J-6080	178	Zone - 1	SCIT	Fixed	0.00	404.04	97.80
J-6081	192	Zone - 1	SCIT	Fixed	0.00	405.13	92.21
J-6082	182	Zone - 1	SCIT	Fixed	0.00	233.69	22.37
J-7000	262	Zone - 4	COV	Fixed	1.22	432.40	73.73
J-7001	260	Zone - 4	COV	Fixed	1.22	432.16	74.49
J-7002	262	Zone - 4	COV	Fixed	1.22	432.16	73.62
J-7003	264	Zone - 4	COV	Fixed	1.22	432.05	72.71
J-7004	258	Zone - 4	COV	Fixed	1.22	432.04	75.30
J-7005	261	Zone - 4	COV	Fixed	1.22	432.04	74.00
J-7007	256	Zone - 4	COV	Fixed	1.22	432.04	76.17
J-7008	299	Zone - 4	COV	Fixed	1.22	432.04	57.56
J-7010	300	Zone - 4	COV	Fixed	1.22	432.04	57.13
J-7011	262	Zone - 4	COV	Fixed	1.22	430.37	72.85
J-7012	262	Zone - 4	COV	Fixed	1.22	430.31	72.82
J-7013	263	Zone - 4	COV	Fixed	1.22	430.27	72.37
J-7015	271	Zone - 4	COV	Fixed	1.22	430.26	68.90
J-7016	262	Zone - 4	COV	Fixed	1.22	430.28	72.81

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					Demand	Calculated	
	i ]	Í			(Calculated)	<b>Hydraulic</b>	Pressure
Label	Elevation (ft)	Zone	Notes	Pattern	(gpm)	Grade (ft)	(psi)
J-7017	262	Zone - 4	COV	Fixed	1.22	430.27	72.80
J-7018	262	Zone - 4	COV	Fixed	1.22	430.27	72.80
J-7019	263	Zone - 4	COV	Fixed	1.22	430.26	72.36
J-7020	264	Zone - 4	COV	Fixed	1.22	430.22	71.92
J-7021	262	Zone - 4	COV	Fixed	1.22	430.24	72.79
1-7022	266	Zone - 4	COV	Fixed	1.22	430.20	71.04
1-7023	269	Zone - 4	COV	Fixed	1.22	430.20	69.74
J-7024	266	Zone - 4	COV	Fixed	1.22	430.11	71.00
J-7025	266	Zone - 4	COV	Fixed	1.22	430.10	71.00
J-7026	264	Zone - 4	COV	Fixed	1.22	430.16	71.89
J-7027	262	Zone - 4	COV	Fixed	1.22	430.11	72.73
J-7028	262	Zone - 4	COV	Fixed	1.22	430.06	72.71
1-7029	270	Zone - 4	COV	Fixed	1.22	430.05	69.25
1-7030	307	Zone - 4	COV	Fixed	1.22	430.01	53.22
L7031	200	Zone - 4	COV	Fixed	1.22	430.02	56.69
1-7032	283		COV	Fixed	1.22	430.04	63.62
1 7032	203	7000 4	V00	Fixed	1 22	430.06	72.71
17024	202	Z010-4	0V	Fixed	1.22	430.04	71.41
17025	200	ZUNE - 4		Fived	1 22	430.03	70.53
J-7035	20/	7000 4		Fiyod	1 22	430.05	73.57
J-7036	260	Zone - 4		Fixed	1.22	430.00	72 73
J-7037	262	Zone - 4	COV	Eixod	1.22	430.15	72 32
J-7038	263	Zone - 4	001	Eixed	1.22	430.15	75.34
J-7039	256	Zone - 4	COV	Fixed	1.22	430.13	63.16
J-7040	284	20ne - 4		Fixed	1.22	429.99	37.01
J-7041	263			Fixed	1.22	420.09	54.50
J-7042	304	Zone - 4		Fixed	1.22	429.90	50.19
J-7043	314	Zone - 4		Fixed	1.22	429.90	52.34
J-7044	309	Zone - 4	COV	Fixed	1.22	429.90	50.34
J-7045	295	Zone - 4	COV	Fixed	1.22	429.95	50,30
J-7046	282	Zone - 4	COV	Fixed	1.22	429.94	64.01
J-7047	282	Zone - 4	<u>COV</u>	Fixed	1.22	429.94	04.01
<u>J-7048</u>	280	Zone - 4	COV	Fixed	1.22	429.94	64.87
J-7049	256	Zone - 4	COV	Fixed	1.22	429.95	75.20
J-7050	303	Zone - 4	COV	Fixed	1.22	429.95	54.92
J-7051	304	Zone - 4	COV	Fixed	1.22	429.97	54.50
J-7052	317	Zone - 4	COV	Fixed	1.22	429.97	48.88
J-7053	314	Zone - 4	COV	Fixed	1.22	429.97	50.17
J-7054	272	Zone - 4	COV	Fixed	1.22	429.95	68.34
J-7055	305	Zone - 4	COV	Fixed	1.22	429.95	54.06
J-7056	295	Zone - 4	COV	Fixed	1.22	429.95	58.38
J-7057	291	Zone - 4	COV	Fixed	1.22	429.94	60.11
J-7060	295	Zone - 4	COV	Fixed	1.22	429.95	58.38
J-7061	297	Zone - 4	COV	Fixed	1.22	429.94	57.52
J-7062	295	Zone - 4	COV	Fixed	1.22	429.94	58.38
J-7063	295	Zone - 4	COV	Fixed	1.22	429.94	58.38
J-7064	273	Zone - 4	COV	Fixed	1.22	429.85	67.86
J-7065	284	Zone - 4	COV	Fixed	1.22	429.85	63.10
J-7066	294	Zone - 4	COV	Fixed	1.22	429.81	58.76
J-7067	290	Zone - 4	COV	Fixed	1.22	429.80	60.48
J-7068	256	Zone - 4	COV	Fixed	1.22	429.79	75.19
J-7069	256	Zone - 4	COV	Fixed	1.22	429.79	75.19
J-7070	253	Zone - 4	COV	Fixed	1.22	429.79	76.49
J-7071	253	Zone - 4	COV	Fixed	1.22	429.79	76.49
J-7072	253	Zone - 4	COV	Fixed	1.22	429.79	76.49
J-7073	253	Zone - 4	COV	Fixed	1.22	429.79	76.49
J-7074	256	Zone - 4	COV	Fixed	1.22	429.79	75.19
J-7075	260	Zone - 4	COV	Fixed	1.22	429.79	73.46
J-7076	256	Zone - 4	COV	Fixed	1.22	429.79	75.19
1-7077	262	Zone - 4	COV	Fixed	1.22	429.79	72.59
1-7078	256	Zone - 4	COV	Fixed	1.22	429.79	75.19
J-7079	250	Zone - 4	COV	Fixed	1.22	429.79	77.79
1-7080	265	Zone - 4	COV	Fixed	1.22	429.79	71.30
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					Demand	Calculated	
		_			(Calculated)	Hydraulic	Pressure
Label	Elevation (ft)	Zone	Notes	Pattern	(gpm)	Grade (ft)	(psi)
J-7081	301	Zone - 4	COV	Fixed	1.22	429.80	55.72
J-7082	300	Zone • 4	COV	Fixed	1.22	429.79	50.10
J-7083	309	Zone - 4	COV	Fixed	1.22	429.79	52.20
J-7004	307	Z010 - 4	COV	Fixed	1.22	429.19	51.83
1-7086	211	7000-4		Fixed	1.22	429.19	51.05
1-7087	311	Zone - 4	COV	Fixed	1.22	429 79	51.40
1-7088	300	Zone - 4		Fixed	1.22	429.79	56.15
1-7089	315	Zone - 4	COV	Fixed	1.22	429.79	49.67
J-7090	291	Zone - 4	COV	Fixed	1.22	429.79	60.05
J-7091	299	Zone - 4	COV	Fixed	1.22	429.79	56.59
J-7092	318	Zone - 4	COV	Fixed	1.22	429.79	48.37
J-7093	312	Zone - 4	COV	Fixed	1.22	429.79	50.96
J-7094	315	Zone - 4	COV	Fixed	1.22	429.79	49.66
J-7095	303	Zone - 4	COV	Fixed	1.22	429.79	54.86
J-7096	287	Zone - 4	COV	Fixed	1.22	429.79	61.78
J-7097	291	Zone - 4	COV	Fixed	1.22	429.79	60.05
J-7098	264	Zone - 4	COV	Fixed	1.22	429.79	71.73
J-7099	265	Zone - 4	COV	Fixed	1.22	429.79	71.30
J-7100	262	Zone - 4	COV	Fixed	1.22	429.79	72.60
J-7101	315	Zone - 4	COV	Fixed	1.22	429.79	49.66
J-7102	318	Zone - 4	COV	Fixed	1.22	429.79	48.37
J-7103	313	Zone - 4	COV	Fixed	1.22	429.79	50.53
J-7104	313	Zone - 4	COV	Fixed	1.22	429.79	50.53
J-7105	301	Zone - 4	COV	Fixed	1.22	429.79	55.72
J-7107	257	Zone - 4	COV	Fixed	1.22	429.80	74.76
J-7108	309	Zone - 4	COV	Fixed	1.22	429.80	52.20
J-7109	309	Zone - 4		Fixed	1.22	429.60	56.16
<u>J-7110</u>	300	Zone - 4		Fixed	1.22	429.60	50.10
J-7111	312	Zone - 4	<u> </u>	Fixed	1.22	429.00	50.90
J-7112	312	Zone - 4		Fixed	1.22	429.00	54.96
J-7113	303	Zone - 4	001	Fixed	1.22	420.00	59.76
J-7114	294	Zone - 4	COV	Fixed	1.22	429.00	58.76
J-7115	294	Zone • 4	COV	Fixed	1.22	429.00	58.76
J-7110	294	Zone - 4	COV	Eived	1.22	429.80	58.76
J-7117	294	Zone - 4	00	Fixed	1.22	429.81	58 33
17110	295			Fixed	1.22	429.82	71.31
1.7120	205	Zone - 4		Fixed	1.22	429.80	74.33
1-7120	200	Z000-4	COV	Fixed	1.22	429.80	58.32
1.7122	200	7000-4	COV	Fixed	1.22	429.90	70.48
1-7122	207	Zone - 4	COV	Fixed	1.22	429.93	60.11
1.7124	250	700-4	COV	Fixed	1.22	429.97	77.86
J-7125	244	Zone - 4	COV	Fixed	1.22	429.98	80.46
J-7126	264	Zone - 4	COV	Fixed	1.22	429.98	71.81
J-7127	279	Zone - 4	COV	Fixed	1.22	429.99	65.33
J-7128	276	Zone - 4	COV	Fixed	1.22	430.00	66.63
J-7129	280	Zone 4	COV	Fixed	1.22	430.04	64.92
J-7131	284	Zone - 4	COV	Fixed	1.22	429.96	63.15
J-7132	291	Zone - 4	COV	Fixed	1.22	429.95	60.12
J-7133	301	Zone - 4	COV	Fixed	1.22	429.94	55.79
J-7134	291	Zone - 4	COV	Fixed	1.22	429.94	60.11
J-7135	291	Zone - 4	COV	Fixed	1.22	429.94	60.11
J-7136	296	Zone - 4	COV	Fixed	1.22	429.93	57.95
J-7137	298	Zone - 4	COV	Fixed	1.22	429.94	57.09
J-7138	291	Zone - 4	COV	Fixed	1.22	429.92	60.10
J-7139	279	Zone - 4	COV	Fixed	1.22	429.91	65.29
J-7140	265	Zone - 4	COV	Fixed	1.22	429.92	/1.35
J-7141	264	Zone - 4	COV	Fixed	1.22	429.92	11.78
J-7142	402	Zone - 7	COV	Fixed	0.00	421.19	11.10
J-7143	402	Zone - 7	COV	FIXED	1.22	421.18	64.00
J-7144	288	Zone - 7_	COV	I FIXED	1.22	430.81	04.00
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					Demand	Calculated	
					(Calculated)	Hydraulic	Pressure
Label	Elevation (ft)	Zone	Notes	Pattern	(gpm)	Grade (ft)	(psi)
<u>J</u> -7145	287	Zone - 7	COV	Fixed	1.22	435.91	64.43
J-7146	281	Zone - 7	COV	Fixed	1.22	437.35	67.65
J-7147	265	Zone - 7	COV	Fixed	1.22	437.35	74.57
J-7148	265	Zone - 7	COV	Fixed	1.22	440.62	75.98
J-7149	308	Zone - 7	COV	Fixed	1.22	441.66	57.83
J-7150	300	Zone - 7	COV	Fixed	1.22	441.93	61.40
J-7151	307	Zone - 7	COV	Fixed	1.22	442.21	58.50
J-7152	275	Zone - 7	COV	Fixed	1.22	442.71	72.56
J-7153	285	Zone - 7	COV	Fixed	1.22	447.19	70.17
J-7154	254	Zone - 7	COV	Fixed	1.22	446.90	83.46
J-7155	288	Zone - 7	COV	Fixed	1.22	447.62	69.06
J-7156	284	Zone - 7	COV	Fixed	1.22	447.62	70.79
J-7157	302	Zone - 7	COV	Fixed	1.22	449.59	63.85
J-7158	349	Zone - 7	COV	Fixed	1.22	449.59	43.52
J-7159	317	Zone - 7	COV	Fixed	1.22	451.37	58.14
J-7160	300	Zone - 7	COV	Fixed	1.22	452.28	65.89
J-7161	310	Zone - 7	COV	Fixed	1.22	452.47	61.64
J-7162	290	Zone - 7	COV	Fixed	1.22	452.58	70.34
J-7163	285	Zone - 7	COV	Fixed	1.22	452.39	72.42
J-7164	282	Zone - 7	COV	Fixed	1.22	452.58	73.80
J-7165	297	Zone - 7	COV	Fixed	1.22	452.58	67.31
1-7166	273	7009-7	COV	Fixed	1.22	452.58	77.70
1.7167	270	Z008 - 7	COV	Fixed	1.22	452.58	78.99
1.7168	2/0	2008 - 7	COV	Fixed	1.22	454.12	70.57
1.7160	280	Zone - 7		Fixed	1.22	453.65	71.24
1.7170	300	Zone - 7	COV	Fixed	1.22	455 70	67.36
1 71 71	300	Zone - 7		Fixed	1 22	456.03	66.64
J-7170	302	Z0110 - 7	<u> </u>	Fixed	1.22	455.84	53 58
J-1112	332	2010 - 7	COV	Fixed	1.22	455.84	52.28
J-7173	333	Zone - 7	COV	Fixed	1 22	455.60	59.10
J-7174	218	Zone - 7	COV	Fived	1.22	455.60	56.94
J-7170	324	Zune - 7	COV	Eived	1.22	455.50	70.31
J-/1/6	293		001	Eivad	1.22	453.51	71 77
J-/1//	289	Zone - 7	COV	Fixed	1.22	450.62	85.07
<u>J-/1/8</u>	254	Zone - 7	001	Fixed	1.22	430.02	95.57
J-/1/9	250	Zone - 7		Fixed	1.22	447.79	05.57
J-7180	253	Zone - 7	001	Fixed	1.22	452.00	00.44
J-7181	249	Zone - 7	COV	Fixed	1.22	402.00	00.17
<u>J-/182</u>	249	Zone - 7	COV	Fixed	1.22	452.00	00.17
J-7183	249	Zone - 7		Fixed	1.22	452,60	00.17
J-7184	250	Zone - 7		- FIXED	1.22	402.80	01.14
J-7185	249	Zone - 7			1.22	452.80	00.1/
J-7186	265	Zone - 7	COV	Fixed	1.22	455.71	02.94
J-7187	278	Zone - 7	COV	Fixed	1.22	455.98	11.00
J-7188	268	Zone - 7	COV	Fixed	1.22	455.98	81.33
J-7189	287	Zone - 7	COV	Fixed	1.22	455.94	73.09
J-7190	306	Zone - 7	COV	Fixed	1.22	455.90	04.60
J-7191	307	Zone - 7	COV	Fixed	1.22	455.90	64.42
J-7192	323	Zone - 7	COV	Fixed	1.22	455.89	57.49
J-7193	282	Zone - 7	COV	Fixed	1.22	455.72	/5.16
J-7194	305	Zone - 7	COV	Fixed	1.22	455.79	65.24
J-7195	310	Zone - 7	COV	Fixed	1.22	455.80	63.08
J-7196	289	Zone - 7	COV	Fixed	1.22	455.06	71.84
J-7197	323	Zone - 7	COV	Fixed	1.22	455.81	57.46
J-7198	323	Zone - 7	COV	Fixed	1.22	455.81	57.46
J-7199	330	Zone - 7	COV	Fixed	1.22	455.83	54.44
J-7200	272	Zone - 7	COV	Fixed	1.22	462.07	82.24
J-7201	279	Zone - 7	COV	Fixed	1.22	462.07	79.21
J-7202	256	Zone - 7	COV	Fixed	1.22	468.97	92.14
	070	7 7	COV	Fixed	1.22	468.97	82.62
J-7203	1 278	Zone - /		1 0.00			
J-7203 J-7204	278	Zone - 7	COV	Fixed	1.22	468.97	92.14
J-7203 J-7204 J-7206	278 256 234	Zone - 7 Zone - 7 Zone - 7		Fixed Fixed	1.22 1.22	468.97 473.46	92.14 103.60

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		1	1		Demand	Calculated	
					(Calculated)	Hydraulic	Pressure
Label	Elevation (ft)	Zone	Notes	Pattern	(gpm)	Grade (ft)	(psi)
J-7208	252	Zone - 7	COV	Fixed	1.22	473.38	95.78
J-7209	234	Zone - 7	COV	Fixed	1.22	473.46	103.60
1-7210	224	Zone - 7	COV	Fixed	1.22	473.56	107.97
J-7211	255	Zone - 7	COV	Fixed	1.22	474.66	95.04
1-7212	224	Zone - 7	COV	Fixed	1.22	473.60	107.99
J-7213	255	Zone - 7	COV	Fixed	1.22	474.65	95.03
1-7214	255	Zone - 7	COV	Fixed	1.22	474.65	95.03
L7215	255	Zone - 7	COV	Fixed	1.22	474.65	95.03
1-7216	252	Zone - 7	COV	Fixed	1.22	474.65	96.33
1-7217	252	Zone - 7	COV	Fixed	1.22	489.03	102.55
1-7218	271	Zone . 7	VO	Fixed	1.22	489.03	94.33
1.7210	268	Zone - 7	COV	Fixed	1.22	476.13	90.05
1.7220	200	Zone - 7	COV	Fixed	1.22	499.85	97.28
1 7001	273			Fixed	1.22	498 19	97 43
J-1221	273	Z0118 - 7		Fixed	1.22	498.23	97.45
J-1222	2/3	Zone - 7	COV	Eived	1.22	498.20	96.63
J-7223	2/5	Zone - 7		Fixed	1.22	490.54	88.03
J-7224	286	Zone - /		FIXED	1.22	401.00 404 EE	90.55 90.20
J-7225	285	1 Zone - 7			1.22	401.00	89.07
J-7226	288	Zone - 7		- ixed	1.22	491.00	90.00
J-7227	285	Zone - 7	COV	-ixeo	1.22	491.00	77.40
J-7228	299	Zone - 7	COV	Fixed	1.22	477.39	77.18
J-7229	299	Zone - 7	COV	Fixed	1.22	477.39	//.18
J-7230	291	Zone - 7	COV	Fixed	1.22	477.39	80.64
J-7231	280	Zone - 7	COV	Fixed	1.22	477.39	85.40
J-7232	270	Zone - 7	COV	Fixed	1.22	477.39	89.73
J-7233	270	Zone - 7	COV	Fixed	1.22	477.39	89.73
J-7234	289	Zone - 7	COV	Fixed	1.22	477.39	81.51
J-7235	291	Zone - 7	COV	Fixed	1.22	477.39	80.64
J-7236	287	Zone - 7	COV	Fixed	1.22	477.39	82.37
J-7237	283	Zone - 7	COV	Fixed	1.22	477.39	84.10
J-7238	286	Zone - 7	COV	Fixed	1.22	477.39	82.81
J-7239	300	Zone - 7	COV	Fixed	1.22	467.38	72.42
J-7240	308	Zone - 7	COV	Fixed	1.22	467.90	69.18
J-7241	336	Zone - 7	COV	Fixed	1.22	469.15	57.61
1-7242	324	Zone - 7	COV	Fixed	1.22	469.15	62.80
1-7243	321	Zone - 7	COV	Fixed	1.22	469.15	64.10
1-7244	339	Zone - 7	COV	Fixed	1.22	469.14	56.31
1.7245	340	Zone - 7	COV	Fixed	1.22	469.14	55.87
L7246	340	Zone - 7		Fixed	1.22	469.14	55.87
1.7247	240	7000-7	COV	Fixed	1.22	469.14	55.87
1.7010	2/15	7000 - 7	COV	Fixed	1.22	469.14	53.71
1 7040	240	Zone - 7	COV	Fixed	1.22	469.14	55.87
17050	240	7000 7	 COV	Fired	1.22	469.14	55.87
J-7254	340			Fixed	1 22	469.14	55.87
J-7201	340	7000 7		Fixed	1.22	469.14	54.57
J-7252	343 3AE		0	Fixed	1 22	469.14	53.71
J-7203		7000 7	COV	Fixed	1.22	469.14	53.71
J-7254	340			Fixed	1 22	469.14	51.55
J-7255	350			Fired	1 22	469 14	51.55
J-7256	350			Fixed	1 22	469.77	52.68
J-7257	348	Zone - 7		Fived	1 22	470.25	55.05
J-/258	343			Fived	1 22	469 77	51.82
J-/259	350	Zone - /		Fivad	1 22	506 75	101.13
J-7260	273	<u> 20ne - /</u>		Eived	1.24	473 17	72 76
J-7262	305	<u> 20ne - 7</u>		Eived	1 22	A72 46	84.01
J-7263	279	Zone - 7		Fixed	4 22	472.10	84 01
J-7264	279	Zone - 7		Fixed	4 00	473.10	85 7/
J-7265	275	Zone - 7	COV	- rixed	1.22	470 04	60.74
J-7266	315	Zone - 7	COV	Fixed	1.22	4/2.01	66.04
J-7267	320	Zone - 7	COV	<u>⊢ixed</u>	1.22	4/2.08	<u> </u>
J-7268	350	Zone - 7	COV	Fixed	1.22	4/2.30	51.94
J-7269	353	Zone - 7	COV	Fixed	1.22	4/2.36	64.64
J-7270	330	Zone - 7	COV	Fixed_	1.22	<u>í 472.24</u>	01,54

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Γ						Demand (Calculated)	Calculated Hydraulic	Pressure
	i abal	Elevation (#)	7000	Notes	Pattern	(calculated)	Grade (ft)	(nsi)
-	Lapel		7000 7		Fixed	1 22	472 16	52.85
	L7272	350	Zone - 7		Fixed	1.22	472.21	52.87
ŀ	1-7273	330	Zone - 7	COV	Fixed	1.22	471.75	61.33
ŀ	1-7274	350	Zone - 7	COV	Fixed	1.22	472.08	52.82
ŀ	1-7275	350	Zone - 7	COV	Fixed	1.22	471.95	52.76
ŀ	1-7276	350	Zone - 7	COV	Fixed	1.22	471.95	52.76
ŀ	J-7277	351	Zone - 7	COV	Fixed	1.22	471.73	52.23
ŀ	J-7278	351	Zone - 7	COV	Fixed	1.22	471.73	52.23
f	J-7279	351	Zone - 7	COV	Fixed	1.22	471.64	52.19
Ī	J-7280	351	Zone - 7	COV	Fixed	1.22	471.64	52.19
	J-7281	350	Zone - 7	COV	Fixed	1.22	471.50	52.57
ĺ	J-7282	345	Zone - 7	COV	Fixed	1.22	470.39	54.25
1	J-7283	350	Zone - 7	COV	Fixed	1.22	470.54	52.15
	J-7284	350	Zone - 7	COV	Fixed	1.22	470.57	52.16
	J-7285	350	Zone - 7	COV	Fixed	1.22	470.58	52.17
	J-7286	350	Zone - 7	COV	Fixed	1.22	470.72	52.23
	J-7287	353	Zone - 7		Fixed	1.22	470.76	50.95
		355			Eived	1.22	470.70	50.00
	J-7289	300			Fixed	1.22	472.00	50.65
ļ	J-7290	355	Z000 - /		Fixed	1.22	472.00	50.65
	J-7291	355	Zone - 7	COV	Fixed	1.22	470.82	65.25
	1-7203	320	Zone - 7	COV	Fixed	1.22	470.86	65.27
	1-7293	320	Zone - 7	COV	Fixed	1.22	470.86	65.27
	1-7295	308	Zone - 7	COV	Fixed	1.22	471.01	70.53
	1-7296	300	Zone - 7	COV	Fixed	1.22	471.08	74.02
	J-7297	274	Zone - 7	COV	Fixed	1.22	471.06	85.26
	J-7298	273	Zone - 7	COV	Fixed	1.22	471.06	85.69
	J-7299	275	Zone - 7	COV	Fixed	1.22	471.06	84.82
	J-7300	275	Zone - 7	COV	Fixed	1.22	471.06	84.82
	J-7301	274	Zone - 7	COV	Fixed	1.22	471.05	85.26
	J-7302	280	Zone - 7	COV	Fixed	1.22	471.05	82.66
	J-7303	290	Zone - 7	COV	Fixed	1.22	471.05	78.33
	J-7304	290	Zone - 7	COV	Fixed	1.22	4/1.05	/8.33
	J-7305	280	Zone - 7	COV	-ixed	1.22	471.05	82.00
'	J-7306	282	Zone - 7		Fixed	1.42	471.05	92.22
	J-7307	281	Zone - 7		Fixed	1.22	471.05	81 79
	J-7308	282	Zone - /		Eived	1.22	471.05	83.09
	J-7309	2/9	Zone - 7	COV	Fixed	1.22	471.05	86.98
	1 7044	270	7000-7	COV	Fixed	1.22	471.04	86.98
	1-1011 1-7940	210	Zone - 7	COV	Fixed	1.22	471.04	78.33
	1.7312	270	Zone - 7	COV	Fixed	1.22	471.04	86.98
	J-7314	280	Zone - 7	COV	Fixed	1.22	471.04	82.66
	J-7315	280	Zone - 7	COV	Fixed	1.22	471.05	82.66
	J-7316	260	Zone - 7	COV	Fixed	1.22	471.05	91.31
	J-7317	280	Zone - 7	COV	Fixed	1.22	471.05	82.66
	J-7318	283	Zone - 7	COV	Fixed	1.22	471.05	81.36
	J-7319	250	Zone - 7	COV	Fixed	1.22	471.05	95.64
	J-7320	278	Zone - 7	COV	Fixed	1.22	471.05	83.52
	J-7321	290	Zone - 7	COV	Fixed	1.22	4/1.05	18.33
	J-7322	270	Zone - 7	COV	Fixed	1.22	4/1.05	00.99
	J-7323	278	Zone - 7		Fixed	1.22	471.00	85 60
	J-7324	273	20ne - 7		Fixed	1 22	471.05	86.98
-	J-7325	2/0	Zone - /		Fixed	1.22	471.05	98.23
	J-7326	244	Zone - /		Fixed	1.22	471.00	94.75
	J-/32/	202		COV	Fixed	1.22	470.99	94.75
	1.7320	202	Zone - 7	COV	Fixed	1.22	470.98	86.96
	1.7320	236	Zone - 7	COV	Fixed	1.22	470.97	101.66
	J-7331	246	Zone - 7	COV	Fixed	1.22	470.98	97.34
	J-7332	232	Zone - 7	COV	Fixed	1.22	470.96	103.39
			and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second se					

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		<u> </u>			Demand	Calculated	
					(Calculated)	Hydraulic	Pressure
Label	Elevation (ft)	Zone	Notes	Pattern	(gpm)	Grade (ft)	(psi)
J-7333	271	Zone - 7	COV	Fixed	1.22	470.98	86.52
J-7334	259	Zone - 1	COV	Fixed	0.00	348.49	38.72
1-7335	259	Zone - 1	COV	Fixed	0.00	348.49	38.72
J-7336	259	Zone - 1	COV	Fixed	0.00	348.49	38.72
1-7337	259	Zone - 1	COV	Fixed	0.00	348.49	38.72
1-7338	259	Zone - 1	COV	Fixed	1.22	348.49	38.72
1-7330	259	Zone - 1	COV	Fixed	1.22	348.49	38.72
1.7340	259	Zone - 1	COV	Fixed	1.22	348.49	38.72
1.73/1	200	Zone - 1	COV	Fixed	1.22	348.49	38.28
1.73/2	200	Zone - 1	COV	Fixed	1.22	348.49	40.01
1 7242	250	Zone - 1	COV	Fixed	1.22	348 48	40.01
J-7040	200		COV	Fixed	1.22	348 48	39.15
17246	200	Zone - 1		Fixed	1.22	348 50	38.72
J-1340	259	Zone - 1	 COV	Fixed	1 22	348 49	38.72
J-7347	259	Zone - I	COV	Fixed	1.22	348.54	40.04
J-7348	250	Zone - 1	COV	Eivod	1.22	348 58	42.65
J-7349	250	Zone - 1	COV	Fixed	1.22	248.55	30.09
J-7350	2/9	2000 - 1		Fixed	1.22	240.55	30.00
J-7351	279	2008 - 1		Ciscol	1.22	340.55	30.09
J-7352	278	Zone - 1		Fixed	1.22	240.04	30.32
J-7353	265	Zone - 1		Fixed	1.22	340.34	22 60
J-7354	294	Zone - 1	COV	Fixed	1.22	348.34	23.00
J-7355	291	Zone - 1	COV	Fixed	1.22	348.54	24.90
J-7356	286	Zone - 1	COV	Fixed	1.22	348.54	27.00
J-7357	290	Zone - 1	COV	Fixed	1.22	348.54	25.33
J-7358	277	Zone - 1	COV	Fixed	1.22	348.55	30.95
J-7359	284	Zone - 1	COV	Fixed	1.22	348.54	27.93
J-7360	273	Zone - 1	COV	Fixed	1.22	348.55	32.68
J-7361	278	Zone - 1	COV	Fixed	1.22	348.54	30.52
J-7362	244	Zone - 4	COV	Fixed	1.22	429.92	80.44
J-7363	264	Zone - 4	COV	Fixed	1.22	429.92	/1./8
J-7364	279	Zone - 4	COV	Fixed	1.22	429.91	65.29
J-7365	276	Zone - 4	COV	Fixed	1.22	429.90	66.59
J-7366	285	Zone - 4	COV	Fixed	1.22	434.53	64.69
J-7367	282	Zone - 4	COV	Fixed	1.22	434.53	65.99
J-7368	300	Zone - 4	COV	Fixed	1.22	434.53	58.21
J-7369	306	Zone - 4	COV	Fixed	1.22	434.53	55.61
J-7370	310	Zone - 4	COV	Fixed	1.22	434.54	53.88
J-7371	322	Zone - 4	COV	Fixed	1.22	434.57	48.70
J-7372	323	Zone - 4	COV	Fixed	1.22	434.57	48.27
J-7373	335	Zone - 2	COV	Fixed	1.22	496.35	69.81
J-7374	251	Zone - 4	COV	Fixed	1.22	429.89	77.40
1-7375	251	Zone - 4	COV	Fixed	1.22	429.89	77.40
1-7376	277	Zone - 4	COV	Fixed	1.22	429.89	66.15
1-7377	280	Zone - 4	COV	Fixed	1.22	429.90	64.85
1.7979	275	Zone - 4	COV	Fixed	1.22	429.89	67.01
1.7370	242	Zone - 4	COV	Fixed	1.22	429.89	81.29
1.7380	272	Zone - 4	COV	Fixed	1.22	429.89	68.31
1.7221	272	Zone - 4	COV	Fixed	1.22	429.90	68.31
1,7292	282	Zone 4	COV	Fixed	1.22	429.90	63.99
1_7382	250	Zone - 4	COV	Fixed	1.22	429.89	77.83
1.7294	250	7000-4	COV	Fixed	1.22	429.89	77.83
1.7295	250	Zone - 4	COV	Fixed	1.22	429.89	77.83
1.7000	250	Zone - 4	COV	Fixed	1.22	429.89	77.83
17207	250	7000-4	COV	Fixed	1.22	429.89	77.83
J-730/	200	7000-4	COV	Fixed	1.22	387.85	55.31
J-7388	200			Fixed	1.22	346.45	45.62
J-7389	241	Zone - 1		Fixed	1 22	346.70	41.84
J-7390	250			Fiyad	1 22	346 38	42.56
J-7391	248	Zone - 1		Fived	1 22	346.38	42.56
J-7392	248	<u>20ne 1</u>		Fixed	1 22	429.89	64.85
J-7393	280	Zone - 4		Fixed	1 22	420.00	64 85
J-7394	280	Zone - 4		Fixed Eived	1 22	246.38	37 37
J-7395	260	Zone - 1	COV	1 Fixed	1.44	1 340.30	10,00

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				1	Demand (Calculated)	Hydraulic	Dressure
		-	<b>A 1</b> - <b>1</b>	<b>-</b>	(Calculated)	nyoraulic Orada (#)	Pressure
Label	Elevation (ft)	Zone	Notes	Pattern	(gpm)	Grade (π)	(psi)
J-7396	256	Zone - 1	COV	Fixed	1.22	346.15	39.00
J-7397	250	Zone - 1	COV	Fixed	1.22	346.15	41.60
J-7398	247	Zone - 1	COV	Fixed	1.22	346.78	43.17
J-7399	247	Zone - 1	COV	Fixed	1.22	346.88	43.21
J-7400	246	Zone - 1	COV	Fixed	1.22	347.04	43.72
J-7401	243	Zone - 4	COV	Fixed	1.22	429.89	80.86
.J-7402	242	Zone - 4	COV	Fixed	1.22	429.89	81.29
J-7403	241	Zone - 1	COV	Fixed	1.22	347.23	45.96
J-7404	243	Zone - 1	COV	Fixed	1.22	347.88	45.38
J-7405	247	Zone - 1	COV	Fixed	1.22	347.88	43.65
J-7406	250	Zone - 1	COV	Fixed	0.00	347.88	42.43
J-7407	244	Zone - 1	COV	Fixed	1.22	348.61	45.26
J-7408	247	Zone - 1	COV	Fixed	1.22	348.61	43.96
J-7409	244	Zone - 1	COV	Fixed	1.22	348.61	45.26
J-7410	244	Zone - 1	COV	Fixed	1.22	348.61	45.26
J-7411	244	Zone - 1	COV	Fixed	1.22	348.63	45.27
J-7412	250	Zone - 1	COV	Fixed	1.22	348.58	42.65
J-7413	236	Zone - 1	COV	Fixed	1.22	348.38	48.62
J-7414	228	Zone - 1	COV	Fixed	1.22	348.18	52.00
J-7415	247	Zone - 1	COV	Fixed	1.22	348.62	43.97
1-7416	255	Zone - 1	COV	Fixed	1.22	348.62	40.51
1-7/17	270	Zone - 1	COV	Fixed	1.22	348.62	34.02
1.7/19	273	Zone - 1	COV	Fixed	1.22	348.62	32.72
17410	213	Zone - 1	COV	Fixed	1.22	348.62	38.34
17420	200	Zone - 1		Fixed	1.22	348.72	40.98
J-7420	245	Zone - 1	COV	Fixed	1.22	347.35	44.28
J-7421	245	2010 - 1		Fixed	1 22	344 87	45.37
J-7422	240	Zone - 1		Fixed	1.22	345 64	43.54
J-7423	245			Fixed	1.22	350.91	44.09
J-/424	249	Zone - I	COV	Fixed	1.22	349 33	42.98
J-7425	250	Zone - 1		Fixed	1.22	349.76	41.00
J-7426	254	Zone - 1		Fixed	1.22	340.70	41.00
J-7427	246	Zone - 1	COV	Fixed	1.22	351.73	43.74
J-7428	246	Zone - 1	COV	Fixed	1.22	303.42	40.40
J-7429	251	Zone - 1	COV	Fixed	1.22	351.72	43.58
J-7430	251	Zone - 1	<u> </u>	Fixed	1.22	353.40	44.30
J-7431	260	Zone - 1	COV	Fixed	1.22	353.22	40.33
J-7432	267	Zone - 1	COV	Fixed	1.22	353.40	37.38
J-7433	269	Zone - 1	COV	Fixed	1.22	353.40	36.51
J-7434	266	Zone - 1	COV	Fixed	1.22	353.40	37.81
J-7435	250	Zone - 1	COV	Fixed	1.22	354.84	45.36
J-7436	250	Zone - 1	COV	Fixed	1.22	356.86	46.23
J-7437	241	Zone - 1	COV	Fixed	1.22	357.25	50.30
J-7438	240	Zone - 1	COV	Fixed	1.22	358.26	51.17
J-7439	252	Zone - 1	COV	Fixed	1.22	358.26	45.97
J-7440	225	Zone - 1	COV	Fixed	1.22	357.74	57.43
J-7441	225	Zone - 1	COV	Fixed	1.22	357.31	57.25
1-7442	230	Zone - 1	COV	Fixed	1.22	357.16	55.01
1.7442	248	Zone - 1	COV	Fixed	1.22	349.32	44.70
1-7444	246	Zone - 1	COV	Fixed	1.22	349.32	44.70
L 7/ 46	240	7000 - 1	COV	Fixed	1.22	349.32	36.48
1.7440	200	7000-1	COV	Fixed	1.22	349.32	41.67
J-1440	200	7000-1		Fixed	1.22	349.32	42.97
J-/44/	200	7000 4		Fired	1.22	349.32	42.97
J-/448	250			Fixed	1 22	350.00	43.27
J-/449	250	Zone - 1		Fived	1 22	349 78	46.63
J-7450	242	20ne - 1		Fixed	1 22	352 71	47.90
J-7451	242	<u> Zone - 1</u>		Fixed	1 92	350.67	50.05
J-7452	235	Zone - 1			1 22	350.82	50 11
J-7453	235	Zone - 1		Fixed	- 1.22	250.03	52 28
J-7454	230	Zone - 1	COV	Fixed	1.22	3/0.03	54 45
J-7455	224	Zone - 1		Fixed	1 22	350.67	45 72
J-7456	245	Zone - 1	COV	Pixed		2/9 10	51 07
J-7457	228	Zone - 1	COV	- Fixed	1.22	J 340.1Z	1 01.97

					Demand	Calculated	<b>.</b>
		_			(Calculated)	Hydraulic	Pressure
Label	Elevation (ft)	Zone	Notes	Pattern	(gpm)	Grade (T)	( <b>psi</b> )
J-7458	227	Zone - 1	COV	Fixed	1.22	348.28	52.47 50.65
J-7459	233	Zone - 1	COV	Fixed	1.22	350.00	42.20
J-7460	250	Zone - 1	COV	Fixed	1.22	300.20	43.39
J-7461	220	Zone - 1	COV	Fixed	(.22	249.12	53.43
J-7462	224	Zone - 1		Fixed	1.22	340.20	54.20
J-7463	223	Zone - 1		Fixed	1.22	240.20	54.20
J-7464	222	Zone - 1	001	Fixed	1.22	340.20	57.66
J-7465	215	Zone - 1		Fixed	1.22	348.28	54 20
J-/400	223	Zone - 1		Eivod	1.22	348.28	53 77
J-7467	224	Zone - 1	<u> </u>	Fixed	1.22	347 12	47.21
J-7408	238	Zone - 1		Fixed	1 22	346.45	46.05
J-7469	240			Fixed	1.22	346.12	50.67
J-7470	229	Zone - 1	COV	Eixed	1.22	345.50	51 31
J-74/1	227	Zone - 1		Eived	1.22	345.55	51.29
J-7472	227	Zone - 1		Fixed	1.22	245.50	50.88
J-7473	228	Zone - 1	<u>COV</u>	Fixed	1.22	347.71	52.22
<u>J-7474</u>	227	Zone - 1		Eived	1.22	347.00	52 25
J-7475	227	20ne - 1		Fixed	1.44	344.02	50.50
J-7476	228	Zone - 1		Fixed	1.22	344.92	51.95
J-7477	225	Zone - 1		Fixed	1.22	344.50	50.16
J-7478	230	Zone - 1	COV	Fixed	1.44	245.93	40.85
J-7479	230	Zone - 1	COV	Fixed	1.22	343.23	49.00
J-7480	230	Zone - 1		Fixed	1.22	244.82	54.00
J-7481	220	Zone - 1		Fixed	1.22	350 32	54.00
J-7482	234	Zone - 1		Fixed	1.22	261.60	59.57
J-7483	224	Zone - 1		Fixed	1.22	346.57	A3 04
J-7484	245	Zone - 1		Fixed	1.22	246.57	37.45
J-7485	260	Zone - 1		Fixed	1.22	346.26	A7 27
J-7486	237	Zone - 1		Fixed	1.22	346.14	32.04
J-7487	270	Zone - 1		Fixed	1.22	346.14	32.94
J-7488	270	Zone - 1		Fixed	1.22	246 14	32.94
J-7489	270	Zone - 1	00	Fixed	1.22	246.14	32.54
J-7490	270	Zone - 1		Fixed	1.22	246.04	47.61
J-7491	236	Zone - 1		Fixed	1.22	346.04	47.01
J-7492	249	Zone - 1		Fixed	1.22	346.20	42.05
J-7493	240	Zone - 1		Fixed	1.22	346.43	41.72
J-7494	250	Zone - 1		Fixed	1.22	246.86	40.17
J-7495	254	Zone - 1		Fixed	1.22	247.08	40.17
J-7496	254	Zone - 1		Fixed	1 22	347.00	42 03
J-7497	248	Zone - 1		Fixed	1.44	347.23	37 74
J-7498	260	Zone - 1		Fixed	1.44	347.45	42 50
J-7499	249	Zone - 1		Fixed	1.22	347 45	42.00 42.00
J-7500	250	Zone - 1	<u> </u>	Fixed	1.24	347.92	44.53
J-7501	245	20ne - 1	COV	Fixed	1 22	347.89	42.35
J-7502	250	Zone - 1	COV	Eivad	1.22	347.63	42.24
J-7503	250	Zone - 1		Fixed	1 22	347 60	42.23
J-7504	250	Zone - 1	COV	Fived	1 22	347.50	42.19
	250	Zone - 1	COV	Fived	1 22	347.29	37.76
J-7506	260			Fixed	1 22	347.53	42.20
<u>J-7507</u>	200		<u></u>	Fixed	1.22	347.50	42.62
J-7508	249	Z010 - 1		Fixed	1.22	347.34	37.79
J-7509	260			Fixed	1.22	346.22	41.63
<u>J-7510</u>	250	Zone - 1		Fixed	1.22	346.62	41.80
J-7511	250	Zone - 1	COV	Fixed	1.22	346.78	42.74
J-7512	248	Zone - 1	COV	Fixed	1.22	344.70	40.97
J-7513	250	20ne - 1		Fixed	1.22	344.96	41.08
3-7514	250		COV	Fixed	1.22	344.96	42.38
J-7515	247	7000 4	COV	Fixed	1.22	345.20	36.86
J-7516	200			Fixed	1.22	345.20	36.86
J-/51/	200	7000-4	<u> </u>	Fixed	1.22	345.44	35.24
J-7518	204		COV	Fixed	1.22	345.44	32.21
1-1-/019	<u> </u>	120110-1					

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					Demand	Calculated	
					(Calculated)	Hydraulic	Pressure
Label	Elevation (ft)	Zone	Notes	Pattern	(gpm)	Grade (ft)	(psi)
1-7520	250	Zone - 1	COV	Fixed	1.22	345.44	41.29
J-7521	250	Zone - 1	COV	Fixed	1.22	345.44	41.29
1-7522	275	Zone - 1	COV	Fixed	1.22	345.44	30.48
1.7523	275	Zone - 1	COV	Fixed	1.22	345.44	30.48
1.7524	250	Zone - 1	COV	Fixed	0.00	342.21	39.90
1.7525	250	Zone - 1	COV	Fixed	1.22	342 49	40.02
17506	230	Zone - 1	COV	Fixed	1.22	343 52	42.62
J-7520	243	Zone - 1	COV	Fived	1.22	343 74	44.88
J-1021	240		COV	Fived	1 22	344 10	46.77
J-1020	230	Zone - 1	COV	Fixed	1 22	344 53	40.90
J-7529	200		COV	Fixed	1.22	344 39	43.00
3-7530	240	Zone • 1	COV	Eivad	1.22	344 33	49.46
J-7531	230	Zone - I	<u> </u>	Fixed	1.22	344.26	49.40
J-7532	230	Zone - 1	001	Fixed	1.22	344.20	45.09
J-7533	240	Zone - 1	COV	Fixed	1.22	244.23	46.78
J-7534	236	Zone - 1		Fixed	1.22	245.57	40.70
J-7535	233	Zone - 1	001	Fixed	1.22	245.57	40.70
J-7536	235	Zone - 1		Fixed	1.22	340.00	50.00
J-7537	230	Zone - 1	COV	FIX60	1.22	343.30	17 04
J-7538	235	Zone - 1	COV	FIXED	1.22	343.30	H1.04
J-7539	230	Zone - 1	COV	-ixed	1.22	340.00	
J-7540	241	Zone - 1	COV	Fixed	1.22	345.56	45.24
J-7541	230	Zone - 1	COV	Fixed	1.22	345.56	50.00
J-7542	234	Zone - 1	COV	Fixed	1.22	344.12	41.04
J-7543	248	Zone - 1	COV	Fixed	1.22	344.12	41.59
J-7544	234	Zone - 1	COV	Fixed	1.22	341.92	46.69
J-7545	234	Zone - 1	COV	Fixed	1.22	343.68	47.45
J-7546	245	Zone - 1	COV	Fixed	1.22	344.12	42.88
J-7547	243	Zone - 1	COV	Fixed	1.22	344.12	43.75
J-7548	268	Zone - 1	COV	Fixed	1.22	344.10	32.93
J-7549	270	Zone - 1	COV	Fixed	1.22	344.10	32.06
J-7550	270	Zone - 1	COV	Fixed	1.22	344.10	32.06
J-7551	261	Zone - 1	COV	Fixed	1.22	344.11	35.96
J-7552	250	Zone - 1	COV	Fixed	1.22	344.62	40.94
J-7553	250	Zone - 1	COV	Fixed	1.22	344.62	40.94
J-7554	250	Zone - 1	COV	Fixed	1.22	344.62	40.94
J-7555	280	Zone - 1	COV	Fixed	1.22	344.42	27.87
J-7556	270	Zone 1	COV	Fixed	1.22	344.33	32.16
J-7557	272	Zone - 1	COV	Fixed	1.22	344.35	31.30
J-7558	280	Zone - 1	COV	Fixed	1.22	344.39	27.86
J-7559	280	Zone - 1	COV	Fixed	1.22	344.37	27.85
J-7560	279	Zone - 1	COV	Fixed	1.22	344.35	28.27
J-7561	280	Zone - 1	COV	Fixed	1.22	344.36	27.85
J-7562	280	Zone - 1	COV	Fixed	1.22	344.36	27.85
J-7563	280	Zone - 1	COV	Fixed	1.22	344.36	27.85
.1-7564	279	Zone - 1	COV	Fixed	1.22	344.34	28.27
J-7565	239	Zone - 1	COV	Fixed	1.22	344.18	45.51
1-7566	240	Zone - 1	COV	Fixed	1.22	344.18	45.08
1.7567	230	Zone - 1	COV	Fixed	1.22	344.12	45.48
L7569	233	Z009 - 1	COV	Fixed	1.22	344.12	42.02
1.7560	27/	Zone - 1	COV	Fixed	1.22	344.12	47.64
1_7670	204	Zone - 1	COV	Fixed	1.22	344.12	42.02
L7574	247	Zone - 1	COV	Fixed	1.22	344.12	42.02
1.7570	241	Zone - 1	COV	Fixed	1.22	344.12	48.51
Z	232	7000-1	COV	Fixed	1.22	344.12	43.32
17574	244	7000-1	COV	Fixed	1.22	344.12	48.51
J-/5/4	232	Zone - 1	COV	Fixed	1.22	344.12	40.72
J-/0/0	230	Zone - 1	COV	Fixed	1.22	344.12	44.18
J-1010	242	Zone - 1	COV	Fixed	1.22	344.12	45.91
J-/3//	230	7000 1	<u> </u>	Fixed	1.22	344.12	46.34
J-/5/8	23/	Zone - I		Fixed	1.22	344.12	48.51
J-/5/9	232	7000 1	COV	Fixed	1.22	344.12	48.51
J-1580	232	ZONC - 1		Fixed	1.22	344.12	48.51
J-7581	252	Zone - 1					

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					Demand	Calculated	
					(Calculated)	Hydraulic	Pressure
Label	Elevation (ft)	Zone	Notes	Pattern	(gpm)	Grade (ft)	(psi)
J-7582	232	Zone - 1	COV	Fixed	1.22	343.79	48.37
J-7583	231	Zone - 1	COV	Fixed	1.22	343.79	48.80
J-7584	258	Zone - 1	COV	Fixed	1.22	344.12	37.26
J-7585	247	Zone - 1	COV	Fixed	1.22	344.12	42.02
J-7586	231	Zone - 1	COV	Fixed	1.22	344.12	48.94
J-7587	239	Zone - 1	COV	Fixed	1.22	344.12	45.48
J-7588	270	Zone - 1	COV	Fixed	1.22	344.12	32.07
J-7589	228	Zone - 1	COV	Fixed	1.22	348.08	51.95
J-7590	230	Zone - 1	COV	Fixed	1.22	347.00	50.62
J-7591	280	Zone - 1	COV	Fixed	1.22	343.63	27.53
J-7592	255	Zone - 9	COV	Fixed	1.22	344.99	38.94
J-7593	237	Zone - 9	COV	Fixed	1.22	344.99	46.72
J-7594	245	Zone - 9	COV	Fixed	1.22	344.99	43.26
J-7595	295	Zone - 9	COV	Fixed	1.22	344.99	21.63
J-7596	246	Zone - 9	COV	Fixed	1.22	344.99	42.83
J-7597	300	Zone - 9	COV	Fixed	1.22	344.99	19.46
J-7598	300	Zone - 9	COV	Fixed	1.22	344.99	19.46
J-7599	300	Zone - 9	COV	Fixed	1.22	344.99	19.46
J-7600	300	Zone - 9	COV	Fixed	1.22	344.99	19.46
J-7601	300	Zone - 9	COV	Fixed	1.22	344.99	19.46
J-7602	301	Zone - 9	COV	Fixed	1.22	344.99	19.03
J-7603	300	Zone - 9	COV	Fixed	0.00	345.00	19.47
J-7604	301	Zone - 9	COV	Fixed	1.22	344.99	19.03
J-7605	238	Zone - 9	COV	Fixed	1.22	344.99	46.29
J-7606	238	Zone - 9	COV	Fixed	1.22	344.99	46.29
J-7607	239	Zone - 9	COV	Fixed	1.22	344.97	45.85
J-7608	260	Zone - 9	COV	Fixed	1.22	344.97	30.70
J-7609	265	Zone - 9	COV	Fixed	1.22	344.97	34.60
J-7610	260	Zone - 9		Fixed	1.22	344.97	30.70
J-7611	249	Zone - 9	<u> </u>	Fixed	1.22	244.97	41.52
J-7612	249	Zone - 9		Fixed	1.22	244.97	29.02
J-7613	255	Zone - 9	<u> </u>	Fixed	1.22	244.97	29.12
J-7614	280	Zone - 9		Fixed	1.22	344.99	10.03
J-7615	301	Zone - 9		Fixed	1.22	343.35	40.30
J-7010	250	Zone - 1		Fixed	1.22	343.35	28.27
J-7017	2/6		<u></u>	Fixed	1.22	343 35	57.69
J-7010	210	Zone - 1		Fixed	1.22	343 35	31 73
J-/019	210			Fived	1 22	343 35	55.53
J-/020	215	Zone 1		Fived	1 22	343 35	49.04
J-/021	230	Z000 1		Fived	1.22	341 51	54 73
1 7600	210	Zone - 1		Fived	1 22	341 51	56.90
17604	210	Z018 - 1	COV	Fived	1 22	341.36	54.67
1-7624	210	Zone - 1	COV	Fixed	1.22	341.07	54.54
1_7626	213	Zone - 1	COV	Fixed	1.22	340.60	60.83
1-7627	205	Zone - 1	COV	Fixed	1.22	341.03	58.85
1.7629	200	Zone - 1	COV	Fixed	1.22	341.03	56.69
1.7620	210	Zone - 1	COV	Fixed	1.22	341.03	56.69
1.7630	198	Zone - 1	COV	Fixed	1.22	340.97	61.86
1-7631	180	Zone - 1	COV	Fixed	1.22	340.80	69.57
J-7632	185	Zone - 1	COV	Fixed	1.22	340.72	67.37
J-7633	213	Zone - 1	COV	Fixed	1.22	340.69	55.24
J-7634	210	Zone - 1	COV	Fixed	1.22	341.07	56.71
J-7635	195	Zone - 1	COV	Fixed	1.22	340.60	63.00
J-7636	180	Zone - 1	COV	Fixed	1.22	339.99	69.22
J-7637	163	Zone - 1	COV	Fixed	1.22	339.31	76.28
J-7638	163	Zone - 1	COV	Fixed	1.22	338.92	76.11
J-7639	180	Zone - 1	COV	Fixed	1.22	339.99	69.22
J-7640	278	Zone - 9	CŌV	Fixed	1.22	344.98	28.98
J-7641	301	Zone - 9	COV	Fixed	1.22	344.98	19.03
J-7642	270	Zone - 9	COV	Fixed	1.22	344.97	32.44
J-7643	291	Zone - 9	COV	Fixed	1.22	344.97	23.35

					Demand (Calculated)	Calculated	Deserver
				<b>-</b>	(Calculated)	Hydraulic	Pressure
Label	Elevation (ft)	Zone	Notes	Pattern	(gpm)	Grade (ft)	(psi)
J-7644	240	Zone - 9	COV	Fixed	1.22	344.97	45.41
J-7645	259	Zone - 9	COV	Fixed	1.22	344.97	37.19
J-7646	280	Zone - 9	COV	Fixed	1.22	344.97	28.11
J-7647	235	Zone - 9	COV	Fixed	1.22	344.97	47.58
J-7648	260	Zone - 9	COV	Fixed	1.22	344.97	36.76
J-7649	277	Zone - 9	COV	Fixed	1.22	344.97	29.41
J-7650	242	Zone - 9	COV	Fixed	1.22	344.97	44.55
J-7651	276	Zone - 9	COV	Fixed	1.22	344.97	29.84
J-7652	295	Zone - 9	COV	Fixed	1.22	344.97	21.62
J-7653	292	Zone - 9	COV	Fixed	1.22	344.97	22.92
J-7654	250	Zone - 1	COV	Fixed	1.22	387.85	59.64
J-7655	300	Zone - 9	COV	Fixed	1.22	344.97	19.46
J-7656	290	Zone - 9	COV	Fixed	1.22	344.96	23.78
J-7657	295	Zone - 9	COV	Fixed	1.22	344.96	21.62
1-7658	290	Zone - 9	COV	Fixed	1.22	344.96	23.78
1-7659	290	Zone - 9	COV	Fixed	1.22	344.96	23.78
1-7660	290	Zone - 9	COV	Fixed	1.22	344.97	23.78
1-7661	267	Zone - 9	cov	Fixed	1.22	344.96	33.73
1.7662	270	7000-0	cov	Fixed	1.22	344.96	32.43
1_7662	282	Zone - 0	COV	Fixed	1.22	344.96	27.24
1.7664	202	Zone - 1	COV	Fixed	1.22	374.39	58.15
1 7004	240	Zone - 1		Fixed	1.22	370.42	49.94
J-7000	200	Zone - 1	COV	Fixed	1.22	370.42	60.75
J-7000	230	Zone - 1	COV	Fixed	1.22	368.92	44.96
J-7007	205	Zone - I	<u> </u>	Fixed	1.22	368.92	60 10
J-/668	230	Zone - 1	COV	Eived	1.22	350.06	50.65
J-7669	233	Zone - 1	<u> </u>	Fixed	1.22	376 38	57.27
J-7670	244	Zone - 1		Fixed	1.44	310.00	36.76
J-7671	260	Zone - 9		Fixed	1.22	244.90	22.07
J-7672	269	Zone - 9	COV	Fixed	1.22	344.90	54.22
J-7673	250	Zone - 1	COV	Fixed	1.44	375.37	57.70
J-7674	243	Zone - 1	COV	Fixeo	1.22	370.30	57.70
J-7675	249	Zone - 1	COV	Fixed	1.22	376.51	55.17
J-7676	244	Zone - 1	COV	Fixed	1.22	376.40	57.28
J-7677	244	Zone - 1	COV	Fixed	1.22	377.16	57.61
J-7678	255	Zone - 1	COV	Fixed	1.22	376.98	52.78
J-7679	230	Zone - 1	COV	Fixed	1.22	385.92	67,46
J-7680	245	Zone - 1	COV	Fixed	1.22	380.29	58.53
J-7681	253	Zone - 1	COV	Fixed	1.22	378.23	54.18
J-7682	251	Zone - 1	COV	Fixed	1.22	377.96	54.93
J-7683	250	Zone - 1	COV	Fixed	1.22	376.76	54.84
J-7684	228	Zone - 1	COV	Fixed	1.22	376.55	64.27
J-7685	265	Zone - 1	COV	Fixed	1.22	376.49	48.24
J-7686	265	Zone - 1	COV	Fixed	1.22	376.48	48.23
J-7687	267	Zone - 1	COV	Fixed	1.22	376.44	47.35
J-7688	267	Zone - 1	COV	Fixed	1.22	376.41	47.34
1-7689	250	Zone - 1	COV	Fixed	1.22	376.44	54.70
1-7600	234	Zone - 1	COV	Fixed	1.22	366.46	57.31
1.7601	234	Zone - 1	COV	Fixed	1.22	365.15	56.74
1.7602	255	Zope - 1	COV	Fixed	1.22	365.15	47.66
1.7602	250	7009-1	COV	Fixed	1.22	372.64	51.33
1.7004	204	Zono - 1	COV	Fixed	1.22	374.05	43.72
17094	213	7000-1	COV	Fixed	1.22	386.82	57.46
J-7090	204	7000-1	COV	Fixed	1.22	386.82	63.95
J-7090	208	7000 1	COV	Fixed	1.22	386.86	63.97
J-/09/	238	7000 1	<u> </u>	Fixed	1.22	386.97	60.12
J-7698	248		<u>COV</u>	Fiyed	1.22	386.82	60.06
J-7699	248		<u>COV</u>	Fixed	1 22	386.82	56.60
J-7700	256			Fiyad	1.22	386.82	56.60
J-7701	256	Zone - 1		Fixed	1 22	386.97	67.91
J-7702	230		<u> </u>	Fivad	1 22	386.29	67.62
J-7703	230	Zone - 1		Fived	1 22	386.82	72.17
J-7704	220	<u></u>		Eivad	1 22	386 82	70.88
J-770 <u>5</u>	223	<u>Zone - 1</u>	COV	L LIYAO	1.66	00.0Z	

						Demand	Calculated	
						(Calculated)	Hydraulic	Pressure
	Label	Elevation (ft)	Zone	Notes	Pattern	(gpm)	Grade (ft)	(psi)
-	J-7706	240	Zone - 7	COV	Fixed	1.22	470.96	99.92
	J-7707	232	Zone - 7	COV	Fixed	1.22	470.96	103.39
l l	J-7708	236	Zone - 7	COV	Fixed	1.22	470.96	101.66
L I	J-7709	236	Zone - 7	COV	Fixed	1.22	470.96	101.66
-	J-7710	232	Zone - 7	COV	Fixed	1.22	470.96	103.39
	J-7711	235	Zone - 7	COV	Fixed	1.22	470.78	102.01
l l	J-7712	288	Zone - 1	COV	Fixed	1.22	376.57	38.32
F	J-7713	288	Zone - 1	COV	Fixed	1.22	376.57	38.32
-	J-7714	299	Zone - 1	COV	Fixed	1.22	378.30	34.31
ł	J-7715	299	Zone - 1	COV	Fixed	1.22	378.56	34.42
-	J-7716	299	Zone - 7	COV	Fixed	1.22	477.26	77.12
t t	1-7717	299	Zone - 7	COV	Fixed	1.22	477.05	77.03
ŀ	J-7718	315	Zone - 1	COV	Fixed	1.22	383.75	29.74
F	J-7719	279	Zone - 1	COV	Fixed	1.22	383.75	45.32
F	1-7720	308	Zone - 1	COV	Fixed	1.22	389.86	35.42
F	1-7721	300	Zone - 1	COV	Fixed	1.22	390.60	39.20
ŀ	.1-7722	288	Zone - 1	COV	Fixed	1.22	390.60	44.39
F	1-7723	300	Zone - 1	COV	Fixed	1.22	390.60	39.20
ŀ	1-7724	310	Zone - 1	COV	Fixed	1,22	390.53	34.84
ł	J_7725	308	Zone - 1	COV	Fixed	1.22	390.49	35.69
ŀ	.1-7726	302	Zone - 1	COV	Fixed	1.22	390.49	38.28
ŀ	1.7727	220	Zone - 1	V07	Fixed	1 22	395.31	75.85
	1.7728	220	Zone - 1	COV	Fixed	1.22	395.96	76.13
ŀ	1-7720	210	Zone - 1	COV	Fixed	1 22	395.99	80.47
-	1-7730	230	Zone 1	COV	Fixed	1 22	395,99	71.82
F	1.7721	230	Zone - 1	COV	Fixed	1 22	396.03	76 16
ŀ	1.7732	210	Zone - 1	COV	Fixed	1.22	396.03	80.48
ł	1.7733	230	Zone - 1	COV	Fixed	1 22	396.03	71.83
ł	1.7734	230	Zone - 1		Fixed	1.22	396.07	76.18
	1.7735	210	Zone - 1	COV	Fixed	1.22	396.07	80.50
ŀ	L7736	210	Zone - 1	<u> </u>	Fixed	1.22	396.07	74.01
ł	1 7727	220	Zone - 1		Fived	1 22	396.17	76.22
	1.7738	220	Zone - 1	COV	Fixed	1.22	396.31	80.61
	1-7730	190	Zone - 1	COV	Fixed	1.22	396.31	89.26
	17740	197	Zone - 1		Fixed	1.22	396.82	90.78
	1.7741	107	Zone - 1	COV	Fixed	1.22	396.82	87.32
	1 7740	195	Zone - 1	COV	Fixed	1.22	397 11	91 77
	J-1/42	100	Z0110 - 1	COV	Fixed	1.22	396.81	91.64
	17743	210	Zone - 1	COV	Fixed	1.22	396.50	80.69
	J-1144	210			Fixed	1 22	306.00	80.50
	J-1140	210			Fixed	1 22	306 27	80.55
	J-//40	210			Elvad	1.22	306.50	60.97
	J-//4/	235			Sived	1.44	306.00	76.50
	J-//40	220	Zone - 1		Fixed	1 22	309.01	104 22
	J-7750	158			Fixed	1.22	306 10	78 35
	J-7/50	215	∠one - 1		Fixed	1.22	390.10	79.25
	J-7/51	215	Zone - 1		Fixed	1.22	306.00	76 19
	J-/752	220	20ne - 1		Fixed	1.22	306.00	76.10
	J-7753	220	<u>Zone - 1</u>		Fixed	1.22	306.00	71.92
	J-7754	230	20ne - 1		Fixed	1.44	206.00	71.02
	J-7755	230	20ne - 1		Elucid	1.22	205.00	76 10
	J-7756	220	Zone - 1		Fixed	1.22	305.08	71 77
-	J-7757	230	20ne - 1		Fixed	1.22	393.09	88.38
	J-7758	195	20ne - 1		Fixed	1 22	305.00	88.88
	J-7759	195			FIXED	1.22	305.76	85.00
	J-7760	197	<u> 20ne - 1</u>		FIXED	1 22	205.70	85.00
	J-7761	197	Zone - 1			1.22	NA 305	85.04
	J-7762	197	Zone - 1		FIXED	1 22	305 20	00.04
	J-7763	185	Zone - 1		Eived	1.22	305.20	80.11
	J-7764	210	Zone - 1		Citrad	1.22	205.20	71 47
	J-7765	230	Zone - 1		FIXED	1.22	305.20	60.31
	J-7766	235	Zone - 1			1.22	393.20	70 11
	J-7767	232	Zone - 1	COV	Dext-1	1.42	0394.00	1 (0.11

Γ					<u> </u>	Demand (Calculated)	Calculated Hydraulic	Pressure
	Label	Elevation (ft)	Zone	Notes	Pattern	(gpm)	Grade (ft)	(psi)
	J-7768	238	Zone - 1	COV	Fixed	1.22	393.13	67.12
	J-7769	245	Zone - 1	COV	Fixed	1.22	393.12	64.09
	J-7770	242	Zone - 1	COV	Fixed	1.22	393.12	65.38
	J-7771	234	Zone - 1	COV	Fixed	1.22	392.91	68.75
	J-7772	240	Zone - 1	COV	Fixed	1.22	393.11	66.25
	J-7773	240	Zone - 1	COV	Fixed	1.22	393.11	66.25
	J-7774	230	Zone - 1	COV	Fixed	1.22	393.11	70.57
	J-7775	234	Zone - 1	COV	Fixed	1.22	392.59	68.61
	J-7776	234	Zone - 1	COV	Fixed	1.22	392.58	68.61
	J-7777	238	Zone - 1	COV	Fixed	1.22	392.58	66.88
	J-7778	232	Zone - 1	COV	Fixed	1.22	392.58	69.48
	J-7779	265	Zone - 1	COV	Fixed	1.22	392.58	55.20
L	<u>J-7780</u>	234	Zone - 1	COV	Fixed	1.22	392.59	68.61
L	J-7781	234	Zone - 1	COV	Fixed	1.22	392.59	68.61
	J-7782	240	Zone - 1	COV	Fixed	1.22	392.59	66.02
	J-7783	100	Zone - 1	COV	Fixed	1.22	388.60	124.86
	J-7784	272	Zone - 1	COV	Fixed	1.22	387.93	50.16
L_	J-7785	240	Zone - 1	COV	Fixed	1.22	389.58	64.72
	J-7786	241	Zone - 1	COV	Fixed	1.22	389.58	04.28
	J-7787	245	Zone - 1	COV	Fixed	1.22	389.50	02.52
	J-7789	245	Zone - 1	COV	Fixed	1.22	386.90	61.39
	J-7790	245	Zone - 1	COV	Fixed	1.22	386.91	61.40
	J-7791	260	Zone - 1	COV	Fixed	1.22	387.90	00.34
Ļ	J-7792	230	Zone - 1	COV	Fixed	1.22	300.00	67.00
-	J-7793	230	Zone - 1	COV	Fixed	1.22	300.04	76.00
	<u>J-7794</u>	209	Zone - 1	<u> </u>	Fixed	1.22	300.02	77.49
	J-7795	209	Zone - 1		Fixed	1.22	300.00	78.93
	J-7796	205	Zone - 1		Fixed	1.22	297.06	71.03
ļ.	<u>J-7797</u>	222	Zone - 1		Fixed	1.22	387.00	61.46
Ļ		245	Zone - 1		Fixed	1.22	387.05	62.32
L	J-7799	243	Zone - 1		Fixed	1.22	200.03	62.02
F	J-7801	244	Zone - 1	001	Fixed	1.22	309.03	48 37
F	J-7802	270	Zone - 1	000	Fixed	1.22	391.01	48.37
-	J-7803	2/0	Zone - 1	001	Fixed	1.22	386.93	63.57
F	J-7804	240	Zone - 1	COV	Fixed	1.22	386.91	63.56
-	J-7805	240	Zone - 1	COV	Cived	1.22	388.83	62 23
	J-7806	245	Zone - 1	COV	Eivod	1.22	388.81	62.20
	J-7807	240	Zone - 1		Fixed	1.22	385 71	61 74
	J-7808	243		007	Fived	1.22	385.86	58.78
	17010	250	Z0118 - 1	COV	Fixed	1 22	382 77	57.44
-	<u>J-7010</u>	200	Zone - 1	COV	Fixed	1 22	382.21	52.44
	J-7013	201	Zone - 1	COV	Fixed	1.22	382.21	52.44
ŀ	1.7812	225	Zone - 1	COV	Fixed	1.22	382.21	68.02
ŀ	1.781/	220	Zone - 1	COV	Fixed	1.22	382.21	70.18
ŀ	1-7815	231	Zone - 1	COV	Fixed	1.22	382.21	65.42
ł	J-7816	213	Zone - 1	COV	Fixed	1.22	382.21	73.21
ŀ	J-7817	222	Zone - 1	COV	Fixed	1.22	382.21	69.31
ŀ	J-7818	272	Zone - 1	COV	Fixed	1.22	382.01	47.60
ł	J-7819	271	Zone - 1	COV	Fixed	1.22	382.01	48.03
	J-7820	271	Zone - 1	COV	Fixed	1.22	382.01	48.03
ŀ	J-7821	271	Zone - 1	COV	Fixed	1.22	381.94	48.00
	J-7822	267	Zone - 1	COV	Fixed	1.22	381.77	49.66
ľ	J-7823	249	Zone - 1	COV	Fixed	1.22	381.77	57.45
	J-7824	273	Zone - 1	COV	Fixed	1.22	381.77	47.06
	J-7825	273	Zone - 1	COV	Fixed	1.22	381.79	47.07
	J-7826	272	Zone - 1	cov	Fixed	1.22	381.71	47.47
	J-7827	272	Zone - 1	COV	Fixed	1.22	381.81	47.51
	J-7828	260	Zone - 1	COV	Fixed	1.22	381.70	52.66
	J-7829	261	Zone - 1	COV	Fixed	1.22	381.56	52.16
	J-7830	261	Zone - 1		Fixed	1.22	381.05	47.07
	J-7831	273	Zone - 1	<u> </u>	Fixed	1.22	381.79	47.07

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					Demand	Calculated	
		1			(Calculated)	Hydraulic	Pressure
Label	Elevation (ft)	Zone	Notes	Pattern	(gpm)	Grade (ft)	(psi)
J-7832	216	Zone - 1	COV	Fixed	1.22	380.01	70.96
J-7833	216	Zone - 1	COV	Fixed	1.22	380.62	71.22
J-7834	219	Zone - 1	COV	Fixed	1.22	376.56	68.17
J-7835	214	Zone - 1	COV	Fixed	1.22	375.98	70.08
J-7837	212	Zone - 1	COV	Fixed	1.22	375.85	70.89
J-7838	189	Zone - 1	COV	Fixed	1.22	375.84	80.84
J-7839	189	Zone - 1	COV	Fixed	1.22	375.83	<u>80.83</u>
J-7840	208	Zone - 1	COV	Fixed	1.22	375.47	72.46
J-7841	212	Zone - 1	COV	Fixed	1.22	375.47	70.73
J-7842	210	Zone - 1	COV	Fixed	1.22	375.02	71.40
J-7843	217	Zone - 1	COV	Fixed	1.22	376.56	69.03
J-7844	245	Zone - 1	COV	Fixed	1.22	376.46	56.88
J-7845	215	Zone - 1	COV	Fixed	1.22	376.54	69.89
J-7846	227	Zone - 1	COV	Fixed	1.22	376.67	64.76
J-7847	220	Zone - 1	COV	Fixed	1.22	376.60	67.75
J-7848	218	Zone - 1	COV	Fixed	1.22	376.78	68.70
J-7849	218	Zone - 1	COV	Fixed	1.22	376.76	68.69
J-7850	225	Zone 1	COV	Fixed	1.22	377.77	66.10
J-7851	215	Zone - 1	COV	Fixed	1.22	377.77	70.42
J-7852	220	Zone - 1	COV	Fixed	1.22	378.06	68.39
J-7853	220	Zone - 1	COV	Fixed	1.22	377.66	68.21
J-7854	228	Zone - 1	COV	Fixed	1.22	378.29	65.02
J-7855	228	Zone - 1	COV	Fixed	1.22	378.39	65.07
1-7856	200	Zone - 1	COV	Fixed	1.22	378.38	77.18
1-7857	228	Zone - 1	COV	Fixed	1.22	378.29	65.02
1-7858	245	Zone - 1	COV	Fixed	1.22	378.29	57.67
1-7859	200	Zone - 1	COV	Fixed	1.22	378.80	77.36
1-7860	200	Zone 1	COV	Fixed	1.22	378.42	77.19
1-7861	191	Zone - 1	COV	Fixed	1.22	379.65	81.62
J-7862	216	Zone - 1	COV	Fixed	1.22	380.68	71.25
1-7863	211	Zone - 1	COV	Fixed	1.22	380.68	73.41
.1-7864	189	Zone 1	COV	Fixed	1.22	379.67	82.49
J-7865	255	Zone - 1	COV	Fixed	1.22	383.23	55.48
1-7866	270	Zone - 1	COV	Fixed	1.22	386.61	50.45
1.7867	263	Zone - 1	COV	Fixed	1.22	386.98	53.64
1-7868	275	Zone 1	COV	Fixed	1.22	387.23	48.56
1-7870	255	Zone - 1	COV	Fixed	1.22	387.67	57.40
L7871	255	Zone - 1	COV	Fixed	1.22	387.43	57.30
1.7872	255	Zone 1	COV	Fixed	1.22	387.43	57.30
1-7872	200	Zone - 1	COV	Fixed	1.22	386.63	50.89
1.707/	200	7000-1	COV	Fixed	1.22	386.63	50.89
1 7075	209	7000-1	0	Fixed	1.22	386.63	50.89
J-1010 1_7070	209	Zone - 1	COV	Fixed	1.22	386.63	50.89
J-10/0	209	Zone - 1	COV	Fixed	1.22	386.63	50.03
17070	271	Zone - 1	COV	Fixed	1.22	386.63	50.03
1 7070	2/1		COV	Fixed	1.22	387.76	57.44
1.7000	200	7000-1	COV	Fixed	1.22	387.89	57.50
1.7994	233	7000-1	COV	Fixed	1.22	387.89	48.84
1.7997	210	7000-1	COV	Fixed	1.22	388.03	64.05
1.7992	240	7000-1	COV	Fixed	1.22	387.78	48.80
J-7003	215	Zone - 1		Fixed	1.22	388.12	66.25
1.7995	235	7000-1	COV	Fixed	1.22	388.12	51.10
1,7996	210	70no - 1	COV	Fixed	1.22	388.12	48.94
1.7997	210	Zone - 1	COV	Fixed	1.22	388.12	64.08
J=1001	240	Zone - 1		Fixed	1.22	388.34	71.97
1 7990	224	Zone - 1	COV	Fixed	1.22	388.45	68.12
1.7900	251	Zone - 1	COV	Fixed	1.22	388.38	59.87
1_7004	250	Zone - 1	COV	Fixed	1.22	388.40	59.88
1.7007	200	Zone - 1	COV	Fixed	1.22	388.05	55.40
J-/032	200	Zone - 1	COV	Fixed	1.22	388.09	55.42
1.700/	200	7000 - 1	COV	Fixed	1.22	388.47	65.97
L7904	200	7000-1	COV	Fixed	1.22	384.54	53.88
9-1080	200						

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					Demand	Calculated	
					(Calculated)	Hydraulic	Pressure
Label	Elevation (ft)	Zone	Notes	Pattern	(gpm)	Grade (ft)	(psi)
J-7896	260	Zone - 1	COV	Fixed	1.22	384.64	53.93
J-7897	260	Zone - 1	COV	Fixed	1.22	384.87	54.03
J-7898	260	Zone - 1	COV	Fixed	1.22	385.38	54.25
J-7899	248	Zone - 1	COV	Fixed	1.22	384.85	59.21
J-7900	236	Zone - 1	COV	Fixed	1.22	384.85	64.40
J-7901	242	Zone - 1	COV	Fixed	1.22	384.85	61.80
J-7902	242	Zone - 1	COV	Fixed	1.22	384.85	61.80
<u>J-7903</u>	242	Zone - 1	COV	Fixed	1.22	384.85	61.80
J-7904	236	Zone - 1	COV	Fixed	1.22	384.97	64.45
J-7905	236	Zone - 1	COV	Fixed	1.22	385.08	54.50
J-7906	260	Zone - 1		Fixed	1.22	304.93	<u> 24.03</u> 60.72
J-7907	248	Zone - 1		Fixed	1.22	300.30	60.73
J-7908	248	Zone - 1	<u> </u>	Fixed	1.22	308.12	60.02
J-7909	232	Zone - 1		Fixed	1.22	393.10	65.70
J-7910	241	Zone - 1		Fixed	1.22	393.00	64.02
J-7913	245	Zone - 1	<u> </u>	Fixed	1.22	393.00	60.61
J-7912	232	Zone - 1		Fixed	1.22	392.03	79.71
J-7913	210	Zone - 1		Fixed	1.22	390.22	64.56
J-7914	240	Zone - 1		Fived	1.22	389.22	63.69
1-7913	242	Z000 - 1		Fiyed	1 22	389.22	62.40
1.7017	240	Zone - 1		Fixed	1.22	389.22	63 69
1.7018	242	Zone - 1	COV	Fixed	1.22	389.22	62.40
1-7919	245	Zone - 1	COV	Fixed	1.22	389.22	63.69
1-7920	240	Zone - 1	COV	Fixed	1.22	389.00	64.47
1-7921	210	Zone - 1	COV	Fixed	1.22	391.60	78.57
1-7922	190	Zone - 1	COV	Fixed	1.22	391.18	87.04
J-7923	178	Zone - 1	COV	Fixed	1.22	391.32	92.29
J-7924	178	Zone - 1	COV	Fixed	1.22	391.03	92.17
J-7925	137	Zone - 1	COV	Fixed	1.22	390.73	109.78
J-7926	145	Zone - 1	COV	Fixed	1.22	392.02	106.87
J-7927	133	Zone - 1	COV	Fixed	1.22	391.83	111.98
J-7928	145	Zone - 1	COV	Fixed	1.22	392.18	106.94
J-7929	135	Zone - 1	COV	Fixed	1.22	392.37	111.35
J-7930	201	Zone - 1	COV	Fixed	1.22	396.41	84.54
J-7931	201	Zone - 1	COV	Fixed	1.22	396.53	84.60
J-7932	191	Zone - 1	COV	Fixed	1.22	396.98	89.12
J-7933	191	Zone - 1	COV	Fixed	1.22	397.18	89.20
J-7934	155	Zone - 1	COV	Fixed	1.22	398.91	105.53
J-7935	155	Zone - 1	COV	Fixed	1.22	398.92	105.53
J-7936	155	Zone - 1	COV	Fixed	1.22	398.96	105.55
J-7937	155	Zone - 1	COV	Fixed	1.22	398.98	105.56
J-7938	155	Zone - 1	COV	Fixed	1.22	398.91	105.53
J-7939	155	Zone - 1	cov	Fixed	1.22	398.98	105.56
J-7940	155	Zone - 1	COV	Fixed	1.22	398.96	105.55
J-7941	155	Zone - 1	COV	Fixed	1.22	398.95	105.55
J-7942	155	Zone - 1	COV	Fixed	1.22	398.96	70 54
J-7943	215	Zone - 1	COV	Fixed	1.22	390.03	0.04
J-7944	190	Zone - 1	COV	Fixed	1.22	385.07	00.12
J-7945	190	Zone - 1	COV	rixed	1.22	392.07	00.12
J-7946	189	Zone - 1		rixed	1.22	393.00	C1.60
J-7947	165	Zone - 1		Fixed	1.42	305.00	88.04
	190	Zone - 1		Fixed	1.22	205.00	00.12
<u>J-7949</u>	185	20ne - 1		Fixed	1.22	305.00	93.05
J-7950	180	Zone - 1		Fixed	1.22	303.00	111 63
<u>J-7951</u>	135	Zone - 1		Fixed	1 22	396.92	91 69
<u>J-7952</u>	185	∠one - 1		Fixed	1 22	395.08	90.89
J-7953	185	Zone - 1		Fixed	1 22	395.08	80.07
J-/954	210	Zone - 1		Fixed	1.22	395.08	80.07
J-7900	405	Zone 1		Fixed	1.22	394.91	90.82
J-1 900	100	Zune - 1	COV	Fixed	1.22	394.91	95.14
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				_	Demand (Calculated)	Calculated Hydraulic	Pressure
Label	Elevation (ft)	Zone	Notes	Pattern	(gpm)	Grade (ft)	(psi)
J-7958	201	Zone - 1	COV	Fixed	1.22	394.55	83.74
J-7959	135	Zone - 1	COV	Fixed	1.22	393.01	111.63
J-7960	150	Zone - 1	COV	Fixed	1.22	395.65	106.28
J-7961	150	Zone - 1	COV	Fixed	1.22	395.47	106.21
J-7962	150	Zone - 1	COV	Fixed	1.22	395.76	106.33
J-7963	165	Zone - 1	COV	Fixed	1.22	395.76	99.84
<u>J-7964</u>	151	Zone - 1	COV	Fixed	1.22	395.76	105.90
J-7965	165	Zone - 1	COV	Fixed	1.22	395.76	99.84
J-7966	150	Zone - 1	COV	Fixed	1.22	394.30	105.70
J-7967	130	Zone - 1	COV	Fixed	1.22	393.01	113.79
J-7968	130	Zone - 1	COV	Fixed	1.22	395.34	114.80
J-7969	128	Zone - 1	COV	Fixed	1.22	393.57	114.90
J-7970	132	Zone - 1	COV	Fixed	1.22	391.66	112.34
J-7971	270	Zone - 2	COV	Fixed	1.22	495.71	97.65
J-7972	241	Zone - 2	COV	Fixed	1.22	495.66	110.18
J-7973	245	Zone - 2	COV	Fixed	1.22	495.62	108.43
J-7974	250	Zone - 2	COV	Fixed	1.22	495.62	106.27
J-7975	250	Zone - 2	COV	Fixed	1.22	495.62	106.27
J-7976	245	Zone - 2	COV	Fixed	1.22	495.62	108.43
J-7977	225	Zone - 2	COV	Fixed	1.22	495.61	117.08
1.7078	230	Zone - 2	COV	Fixed	1.22	495.61	114.92
1.7070	250	Zone - 2	COV	Fixed	1.22	495.61	101.94
1 7000	251	Z000 - 2	COV	Fixed	1.22	495.58	105.82
J-7900	251		COV	Fixed	1 22	495.55	106.24
J-7901	250	Z0110-2		Fived	1.22	495 55	106.24
J-7982	200	Zone - 2	V	Fixed	1.22	495 55	111 43
J-7983	238	Zone - 2	COV	Fixed	1.22	495.55	111 43
J-7984	238	Zone - Z		Eived	1.22	405.55	111 43
J-7985	238	<u></u>	COV	Fixed	1.22	495.55	103.65
J-7986	256	Zone - 2		Fixed	1.22	495.50	106.00
J-7987	250	Zone - 2		Fixed	1.22	495.54	106.23
<u>J-7988</u>	250	Zone - 2		Fixed	1.22	493.34	100.25
J-7989	260	Zone - 2	COV	rixed	1.22	493.53	101.00
J-7990	259	Zone - 2	COV	Fixed	1.22	493.33	102.33
J-7991	255	Zone - 2	COV	Fixed	1.22	490.03	104.06
J-7992	255	Zone - 2	<u>COV</u>	FIXED	1.22	490.03	104.00
J-7993	250	Zone - 2	COV	Fixed	1.22	495.61	100.20
J-7994	250	Zone - 2	COV	Fixed	1.22	495.61	106.26
J-7995	225	Zone - 2	COV	Fixed	1.22	495.61	117.08
J-7996	264	Zone - 2	COV	Fixed	1.22	495.48	100.15
J-7997	264	Zone - 2	COV	Fixed	1.22	495.48	100.15
J-7998	338	Zone - 2	COV	Fixed	1.22	495.41	68.10
J-7999	338	Zone - 2	COV	Fixed	1.22	495.24	68.03
J-8000	338	Zone - 2	COV	Fixed	1.22	495.24	68.03
J-8001	338	Zone - 2	COV	Fixed	1.22	494.69	67.79
J-8002	338	Zone - 2	COV	Fixed	1.22	494.67	67.78
J-8003	335	Zone - 2	COV	Fixed	1.22	494.66	69.08
J-8004	340	Zone - 2	COV	Fixed	1.22	495.24	67.17
J-8005	340	Zone - 2	COV	Fixed	1.22	494.63	66.90
J-8006	334	Zone - 2	COV	Fixed	1.22	495.11	69.71
.1-8007	335	Zone - 2	COV	Fixed	1.22	495.00	69.22
J-8008	335	Zone - 2	COV	Fixed	1.22	495.00	69.22
1-8000	335	Zone - 2	COV	Fixed	1.22	494.87	69.17
J_8010	333	Zone - 2	COV	Fixed	1.22	494.81	70.01
J_8012	334	Zone - 2	COV	Fixed	1.22	494.66	69.51
1-8013	335	Zone - 2	COV	Fixed	1.22	494.66	69.08
	, 335		COV	Fixed	1.22	494.66	105.85
1-2013	250	Zone - 2			the second second second second second second second second second second second second second second second s		1 100 00
J-8014	250	Zone - 2 Zone - 2	COV	Fixed	1.22	494.66	102.39
J-8013 J-8014 J-8015	250 258	Zone - 2 Zone - 2	COV	Fixed	1.22	494.66	102.39
J-8013 J-8014 J-8015 J-8016	250 258 250	Zone - 2 Zone - 2 Zone - 2		Fixed Fixed Fixed	1.22 1.22 1.22	494.66 508.91 508.91	102.39 112.02 116.34
J-8013 J-8014 J-8015 J-8016 J-8017	250 258 250 240	Zone - 2 Zone - 2 Zone - 2 Zone - 2 Zone - 2		Fixed Fixed Fixed	1.22 1.22 1.22 1.22 1.22	494.66 508.91 508.91 508.91	102.39 112.02 116.34 116.34
J-8013 J-8014 J-8015 J-8016 J-8017 J-8018	250 258 250 240 240	Zone - 2 Zone - 2 Zone - 2 Zone - 2 Zone - 2 Zone - 2		Fixed Fixed Fixed Fixed	1.22 1.22 1.22 1.22 1.22 1.22	494.66 508.91 508.91 508.91 508.91 508.91	102.39 112.02 116.34 116.34 114.18

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		T		· · ·	Demand	Calculated	
Í					(Calculated)	Hydraulic	Pressure
Label	Elevation (ft)	Zone	Notes	Pattern	(apm)	Grade (ft)	(DSÌ)
.1-8021	264	Zone - 2	COV	Fixed	1.22	507.70	105.44
1-8022	256	Zone - 2	COV	Fixed	1.22	507.50	108.81
1-8023	260	Zone - 2	COV	Fixed	1.22	505 46	106.20
1-8024	260	Zone - 2	COV	Fixed	1 22	503.93	105.54
1-8025	260	Zone - 2	V	Fixed	1 22	503.93	105.54
19025	200	Zono 2		Fixed	1.22	502.00	101.67
J-0020	200	Zone 2		Fixed	1.22	502.33	06.23
J-0027	200	Zone - Z		Eixed	1.22	374.00	70.56
J-0020	211	Zone - I	<u>COV</u>	Eixed	1.22	274.03	70.30
J-8029	210	Zone - I		Fixed	1.22	274.00	70.97
J-8030	210	Zone - 1		Fixed	1.22	374.00	70.90
J-8031	215	Zone • 1	001	Fixed	1.22	374.01	70.07
J-8032	212	Zone - 1		Fixed	1.22	373.90	77.42
J-8033	195	Zone - 1	COV	Fixed	1.22	373.90	77.43
J-8034	190	Zone - 1	COV	Fixed	1.22	3/3.91	79.57
J-8035	200	Zone - 1	COV	Fixed	1.22	373.91	75.24
J-8036	194	Zone - 1	COV	Fixed	1.22	373.85	77.81
J-8037	250	Zone - 2	COV	Fixed	0.00	509.28	112.18
J-8038	250	Zone - 1	COV	Fixed	0.00	342.08	39.84
J-8039	250	Zone - 2	COV	Fixed	0.00	509.41	112.24
J-8040	250	Zone - 1	COV	Fixed	0.00	342.08	39.84
J-8041	250	Zone - 2	COV	Fixed	0.00	509.41	112.24
J-8042	250	Zone - 1	COV	Fixed	0.00	342.08	39.84
J-8043	250	Zone - 2	COV	Fixed	0.00	509.41	112.24
J-8044	275	Zone - 7	COV	Fixed	1.22	506.75	100.27
1-8045	254	Zone - 7	COV	Fixed	1.22	506.75	109.35
1-8046	254	Zone - 1	COV	Fixed	1.22	386.82	57.46
1_8047	273	Zone - 1		Fixed	0.00	367.07	40.70
1.9049	273	Zone - 1	COV	Fixed	0.00	509.41	102.28
1-9040	273	7000-1		Fixed	0.00	369.60	41.79
1.9050	275	Zone - 1	COV	Fixed	1.22	373.19	42.48
1 9051	270	Zone - 1	0	Fixed	0.00	371 16	42.47
J-0001	213	Zone · I	0	Fixed	0.00	348.40	38.72
1-0052	209	Zone - I	COV	Fixed	0.00	348.49	38.72
J-8003	209	Zone - 1		Fixed	1.00	424.79	45.34
J-8054	330	Zone - 4		Fixed	1.22	406 15	71.99
J-8055	330	Zone - 2		Fixed	1.22	490.13	64.02
J-8056	280	Zone - 4	COV	Fixed	1.22	430.05	04.92
J-8057	280	Zone - 2	COV	Fixed	1.22	503.90	90.07
J-8058	360	Zone - 7	COV	Fixed	1.22	409.//	47.49
J-8059		Zone - 7	COV	Fixed	1.22	463.69	/0.82
J-8060	300	Zone - 7	COV	Fixed	1.22	463.69	70.82
J-8061	250	Zone - 7	COV	Fixed	1.22	447.73	85.55
J-8062	254	Zone - 7	COV	Fixed	1.22	450.62	85.07
J-8063	250	Zone - 7	COV	Fixed	1.22	448.58	85.92
J-8064	250	Zone - 7	COV	Fixed	1.22	448.58	85.92
J-8065	245	Zone - 1	COV	Fixed	1.22	376.55	56.92
J-8066	217	Zone - 1	COV	Fixed	1.22	376.55	69.03
J-8067	270	Zone - 1	COV	Fixed	1.22	381.56	48.27
J-8068	245	Zone - 1	COV	Fixed	1.22	386.91	61.40
J-8069	222	Zone 1	COV	Fixed	1.22	387.02	71.40
1_8070	222	Zone - 1	COV	Fixed	1.22	387.02	71.40
1.8071	255	Zone - 1	COV	Fixed	1.22	376.51	52.57
1_9072	205	7004-1	COV	Fixed	1.22	341.03	58.85
1,2072	200	Zone - 0	COV	Fixed	1.22	344.99	45.86
J-00/J	208	Z010-3	COV	Fixed	1.22	386.82	60.06
J-00/4	240	7000 1	<u>COV</u>	Fixed	1.22	386.82	60.06
J-00/D	248			Fixed	1 22	386.82	60.06
J-8076	248		<u> </u>	Fivad	1 22	347 99	52.35
J-80/7	22/	Zone - 1	<u>COV</u>	Fired	1 22	347 71	52.22
J-8078	227	20ne - 1	<u> </u>	Fivad	1 22	347 69	51.78
J-8079	228	Zone - 1	<u> </u>	Eivad	1 22	347 63	51 76
J-8080	228	Zone - 1		Eived	1.22	346 14	32.94
J-8081	270	20ne - 1		Eivod	1 22	343.78	47 49
J-8082	234	Zone - 1	COV	I LIXED	1.22	1 343.10	1 41.43

.

					Demand (Calculated)	Calculated Hydraulic	Pressure
Label	Elevation (ft)	Zone	Notes	Pattern	(gpm)	Grade (ft)	(psi)
J-8083	268	Zone - 1	COV	Fixed	1.22	344.11	32.93
J-8084	270	Zone - 1	COV	Fixed	1.22	344.11	32.06
J-8085	245	Zone - 1	COV	Fixed	1.22	344.12	42.88
J-8086	234	Zone - 1	COV	Fixed	1.22	344.12	47.64
J-8087	234	Zone - 1	COV	Fixed	1.22	344.12	47.64
J-8088	243	Zone - 1	COV	Fixed	1.22	344.12	43.75
J-8089	335	Zone - 2	COV	Fixed	1.22	494.87	69.17
J-8090	330	Zone - 2	COV	Fixed	1.22	495.44	71.58
J-8091	264	Zone - 2	COV	Fixed	1.22	495.47	100.15
J-8092	256	Zone - 2	COV	Fixed	1.22	495.55	103.64
J-8093	250	Zone - 2	COV	Fixed	1.22	495.58	106.25
J-8094	250	Zone - 2	COV	Fixed	1.22	495.61	106.26
J-8095	260	Zone - 2	COV	Fixed	1.22	505.46	106.20
J-8096	254	Zone - 1	COV	Fixed	1.22	346.86	40.17
J-8097	228	Zone - 1	COV	Fixed	1.22	348.00	51.92
J-8098	236	Zone - 1	COV	Fixed	1.22	348.00	48.46
J-8099	246	Zone - 1	COV	Fixed	1.22	349.32	44.70
J-8100	246	Zone - 1	COV	Fixed	1.22	349.32	44.70
J-8101	251	Zone - 1	COV	Fixed	1.22	351.72	43.58
J-8102	255	Zone - 1	COV	Fixed	1.22	350.74	41.42
J-8103	251	Zone - 1	COV	Fixed	1.22	353.40	44.30
J-8104	268	Zone - 7	COV	Fixed	1.22	471.75	88.15
J-8105	268	Zone - 7	COV	Fixed	1.22	471.28	87.95
J-8106	268	Zone - 7	COV	Fixed	1.22	471.20	87.92
J-8107	270	Zone - 7	COV	Fixed	1.22	471.07	86.99
1-8108	252	Zone - 7	COV	Fixed	1.22	470.36	94.47
1-8109	256	Zone - 7	COV	Fixed	1.22	470.25	92.69
1-8110	268	Zone - 7	COV	Fixed	1.22	471.16	87.90
J-8111	255	Zone - 7	COV	Fixed	1.22	471.16	93.52
J-8112	270	Zone - 7	COV	Fixed	1.22	471.07	86.99
J-8113	270	Zone - 7	COV	Fixed	1.22	471.07	86.99
1-8114	270	Zone - 7	COV	Fixed	1.22	471.09	87.00
J-8115	270	Zone - 7	COV	Fixed	1.22	471.09	87.00
1-8116	270	Zone - 7	COV	Fixed	1.22	471.10	87.01
1-8117	270	Zone - 7	COV	Fixed	1.22	471.10	87.01
1.8118	270	Zone - 7	COV	Fixed	1.22	471.12	87.02
1.9110	270	Zone - 7	COV	Fixed	1.22	471.13	87.02
1_9120	256	Zone - 7	COV	Fixed	1.22	468.68	92.02
1.9121	230	Zone - 4	COV	Fixed	1.22	429.94	64.87
1.2122	200	Zone - 4	COV	Fixed	1.22	429.94	64.87
1.2102	200	Zone - 4	COV	Fixed	1.22	429.94	64.87
J-0123	200	2010 - 4	0	Fixed	1.22	429.95	75.26
1.0124	230	Z010-4	COV	Fixed	1 22	429.95	75.26
1-0120	250	Zone - 1	COV	Fixed	1.22	348.54	40.04
1.0120	200	Zone - 1	COV	Fixed	1.22	429.82	71.31
J-0121	203	Z000 - 4	COV	Fixed	1.22	429.81	58.76
L2120	204	Zone - 4	COV	Fixed	1.22	429.81	58.76
1.8120	205	Zona - 4	COV	Fixed	1.22	429.80	58.32
1_9121	140	Zone - 1	COV	Fixed	1.22	392.04	109.05
1.9122	126	Zone - 1	COV	Fixed	1.22	391.25	110.87
1,2122	150	Zone - 1	COV	Fixed	1.22	396.05	106.45
U-0100	001	Zono - 7	COV	Fixed	1.22	471.01	94.76
1.9125	202	Zope - 7	COV	Fixed	1.22	471.05	91.31
1.0130	200	Zone - 1	COV	Fixed	1.22	393.12	64.08
J-0100	240	Zone - 1	COV	Fixed	1.22	393.12	65.38
1.010/	242	Zone - 1	COV	Fixed	1.22	393.12	65.38
1_0130	272	7000 - A	COV	Fixed	1.22	429.99	65.33
1 01 39	213	7000-1	COV Clariant	Fixed	250.09	368.17	70.60
J-0140	203	Zone - 4	COV Westwood Trailer Park	Fixed	50.41	429.79	74.76
J-0141	201	7000 - 1	COV Manleroot Trailer Park	Fixed	16.02	348.43	38.26
1.0142	250	Zone - 1	COV Haven Eldercare of NE	Fixed	23.98	348.50	38.72
J-0143	209		COV Sherwood Valley Trailer Park	Fixed	14.55	432.04	57.56
J-0144	200	20110 - 4	1 997 GROUTOGG FUNOT FUNDET GRC				

					Demand	Calculated	
					(Calculated)	Hydraulic	Pressure
Label	Elevation (ft)	Zone	Notes	Pattern	(gpm)	Grade (ft)	(psi)
J-8145	316	Zone - 2	COV	Fixed	0.00	500.63	79.88
J-8146	316	Zone - 2	COV	Fixed	2.39	500.76	79.94
J-8147	319	Zone - 2	COV	Fixed	2.39	500.89	78.70
J-8148	312	Zone - 2	COV	Fixed	2.39	501.04	81.79
J-8149	306	Zone - 2	COV	Fixed	2.39	501.09	84.41
J-8150	304	Zone - 2	COV	Fixed	2.39	501.11	85.28
J-8151	302	Zone - 2	COV	Fixed	2.39	501.12	86.15
J-8152	306	Zone - 2	COV	Fixed	2.39	501.11	84.41
J-8153	298	Zone - 2	COV	Fixed	2.39	501.22	87.92
J-8154	302	Zone - 2	COV	Fixed	2.39	501.22	86.19
J-8155	292	Zone - 2	COV	Fixed	2.39	501.30	90.55
J-8156	283	Zone - 2	COV	Fixed	2.39	501.30	94.45
J-8157	282	Zone - 2	COV	Fixed	2.39	501.30	94.88
J-8158	282	Zone - 2	COV	Fixed	2.39	501.30	94.88
J-8159	283	Zone - 2	COV	Fixed	2.39	501.30	94.45
J-8160	285	Zone - 2	COV	Fixed	2.39	501.30	93.58
J-8161	285	Zone - 2	COV	Fixed	2.39	501.30	93.58
J-8162	330	Zone - 2	COV	Fixed	0.00	497.58	72.50
J-8163	300	Zone - 2	COV	Fixed	0.00	494.56	84.18
J-8164	242	Zone - 1	COV	Fixed	2.98	392.58	65.15
J-8165	255	Zone - 1	COV	Fixed	2.98	392.58	59.52
J-8166	239	Zone - 1	COV	Fixed	2.98	392.58	66.44
J-8167	247	Zone - 1	ÇOV	Fixed	2.98	392.58	62.98
J-8168	250	Zone - 1	COV	Fixed	2.98	392.58	61.69
J-8169	260	Zone - 1	COV	Fixed	2.98	392.57	57.36
J-8170	294	Zone - 2	COV	Fixed	0.00	497.78	88.17
J-8171	292	Zone - 2	COV	Fixed	0.00	497.78	89.03
J-8172	315	Zone - 2	COV	Fixed	1.74	494.58	77.70
J-8173	314	Zone - 2	COV	Fixed	4.72	494.58	78.34
J-8174	306	Zone - 2	COV	Fixed	2.08	494.57	81.59
J-8175	305	Zone - 2	COV	Fixed	0.00	494.56	82.01
1-8176	340	Zone - 2	COV	Fixed	0.00	494.60	66.89
1.8177	277	Zope - 2	COV	Fixed	2.50	498.34	95.76
1-8178	275	Zone - 2	COV	Fixed	2.50	498.34	96.63
1-8179	275	Zone - 2	COV	Fixed	2.50	498.34	96.63
1-8180	275	Zone - 2	COV	Fixed	2.50	498.34	96.63
1_8181	275	Zone - 2	COV	Fixed	2.50	498.34	96.63
1-8182	279	Zone - 2	COV	Fixed	2.50	498.64	95.03
1-8183	279	Zone - 2	COV	Fixed	2.50	498.64	95.03
1_8184	280	Zone - 2	COV	Fixed	2.50	499.15	94.82
1_8185	280	Zone - 2	COV	Fixed	2.50	499.15	94.82
1_9196	200	7000-2	COV	Fixed	2.50	499.46	94.09
J_8197	202	Zone - 2	COV	Fixed	2.50	499.46	94.09
1.8189	292	Z008-2	COV	Fixed	2.50	499.68	93.32
1_8180	284	Zone - 2	COV	Fixed	2.50	499.72	93.33
1,2100	294	Z009-2	COV	Fixed	2.50	499.72	93.33
1_8101	207	Zone - 2	COV	Fixed	2.50	499.77	95.08
1.0101	200	Zono - 2	COV	Fixed	2.50	499.77	95.08
J-0194	200	7009-2	COV	Fixed	2.50	499.83	95.54
1-0193	213	7000-2	COV	Fixed	2.50	499.83	95.54
1 0105	213	7000-2	COV	Fixed	2.50	500.00	96.05
1.0100	210	Zone - 2	COV	Fixed	2.50	500.13	96.97
J-0190	210	7000-2	COV	Fixed	2.50	500.13	96.97
1 010/	210	7000-2	COV	Fixed	2.50	500.30	100.07
J-0190	208	7000-2	COV	Fixed	2.50	500.68	97.21
1-0199	210	7000-2	COV	Fixed	2.50	500.70	98.08
J-0200	214	7000-2	COV	Fixed	2.50	500.74	95.94
J-0201	2/8	7000-2	COV	Fixed	2.50	500.70	104.57
1 0000	208	7000-2	COV	Fixed	2.50	500.84	95.11
J-0203	201	7000-2	<u>COV</u>	Fixed	2.50	500.84	95.11
1.0005	201	7000-2	<u> </u>	Fixed	2.50	500.84	95.11
J-0200	201	7000-2	COV	Fixed	2.50	500.84	95.11
J-0200	201	2.0110-2					

	1	·			Demand	Calculated	
1					(Calculated)	Hydraulic	Pressure
Label	Elevation (ft)	Zone	Notes	Pattern	(gpm)	Grade (ft)	(psi)
J-8207	284	Zone - 2	COV	Fixed	2.50	501.00	93.89
J-8208	284	Zone - 2	COV	Fixed	2.50	501.86	94.26
J-8209	280	Zone - 2	COV	Fixed	2.50	500.59	95.44
J-8210	284	Zone - 2	COV	Fixed	2.50	499.87	93.40
J-8211	287	Zone - 2	COV	Fixed	2.50	502.15	93.09
J-8212	315	Zone - 2	COV	Fixed	0.00	494.59	77.70
J-8213	321	Zone - 2	COV	Fixed	0.00	494.59	75.10
J-8214	320	Zone - 2	COV	Fixed	0.00	494.59	75.53
J-8215	318	Zone - 2	COV	Fixed	6.18	494.58	76.40
J-8216	318	Zone - 2	COV	Fixed	0.00	494.58	76.40
J-8217	265	Zone - 4	COV	Fixed	0.00	429.94	71.36
J-8218	275	Zone - 4	COV	Fixed	5,00	429.94	67.04
J-8219	234	Zone - 1	COV	Fixed	1.22	363.26	55.92
J-8220	243	Zone - 1	COV	Fixed	1.22	362.72	51.80
J-8221	270	Zone - 7	COV	Fixed	1.22	469.76	86.43
J-8222	301	Zone - 1	COV	Fixed	0.00	344.84	18.97
J-8223	300	Zone - 1	COV	Fixed	0.00	344.84	19.40
1-8224	290	Zone - 1	COV	Fixed	0.00	344.84	23.73
J-8225	290	Zone • 9	COV	Fixed	0.00	345.00	23.79
.1-8226	290	Zone - 9	COV	Fixed	0.00	345.00	23,79
1-8227	200	Zone - 1	COV	Fixed	0.00	344.84	23.73
1.8228	300	Zone - 9	COV	Fixed	0.00	345.00	19.47
1.8220	220	Zone - 1	COV	Fixed	0.00	395.37	75.87
1-8230	220	Zone - 1	COV	Fixed	0.00	395.26	75.83
1-8231	310	Zone - 1	00V	Fixed	0.00	390.60	34.87
1-9232	300	Zone - 1		Fixed	0.00	390.60	39.20
1_8233	300	Zone - 1	0	Fixed	0.00	389.58	38.76
1.9234	300	Zone - 1		Fixed	0.00	389 35	38.66
1.9235	270	Zone - 1	0	Fixed	0.00	390.64	52 19
1.9236	252	Zone - 1		Fixed	0.00	300.11	59 75
10200	252	Zone - 1		Fixed	0.00	302.15	61 50
1.0237	200	Zone - 1		Fixed	0.00	307.19	89.20
1-0239	191	Zone - 1	COV	Fixed	0.00	308.22	105.20
J-0240	100	Zone - I	COV	Fixed	0.00	309.03	104.24
J-0241	130	Z0110 - 1	COV	Fixed	0.00	302.50	113.61
J-0242	130	Zone • 1		Fixed	0.00	202.55	156.99
J-8243	30	Zone - 1		Fixed	0.00	392.59	113.61
J-8244	130	Zone - I	COV	Fixed	0.00	392.39	44.04
J-8245	244	Zone - 1		Fixed	0.00	400.90	70.56
J-8246	246	Zone - 4		Fixed	0.00	429.09	79.00
J-8247	250	Zone - 4	COV	Fixed	0.00	429.89	11.83
J-8248	241	Zone - 4		FIXED		429.90	01./3
J-8249	248	Zone - 4	COV	Fixed	0.00	429.89	18.70
J-8250	260	Zone - 4	COV	Fixed	0.00	429.89	/3.51
J-8251	263	Zone - 4	COV	Fixed	1.22	430.26	72.37
J-8252	259	Zone - 4	COV	Fixed	6.95	430.26	74.10
J-8253	259	Zone - 4	COV	Fixed	6.95	430.26	/4.10
J-8254	280	Zone - 2	COV	Fixed	2.08	502.42	96.23
J-8255	258	Zone - 4	COV	Fixed	1.22	432.04	75.30
J-8256	258	Zone - 4	COV	Fixed	12.20	432.03	75.30

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# Appendix B Maximum Day Simulation Summary

# **Calculation Results Summary**

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## Scenario: MD Run 1 Steady State Analysis Pump Report

Label	Elevation (ft)	Control Status	Intake Pump Grade (ft)	Discharge Pump Grade (ft)	Discharge (gpm)	Pump Head (ft)	Discharge Pump Pressure (psi)	Description	Notes
PMP-1	259.00	Off	235.00	316.28	0.00	0.00	24.78	Mishnock Well 1	cov
PMP-2	259.00	Off	259.00	316.28	0.00	0.00	24.78	Mishnock Well 2 (Abandoned)	cov
PMP-3	259.00	Off	246.24	316.28	0.00	0.00	24.78	Mishnock Well 3	cov
PMP-4	249.80	Off	229.80	314.28	0.00	0.00	27.90	Coventry/Spring Lake Well	cov
PMP-5	15.50	On	15.44	333.78	1,144.10	318.34	137.71	EG Well Station 1	EG
PMP-6	273.00	On	358.45	506.83	1,425.55	148.37	101.17	Pump 1 Knotty Oak Rd. PS	cov
PMP-9	250.00	On	284.38	513.17	806.58	228.80	113.86	Pump 3 Johnson Bivd, PS	cov
PMP-10	250.00	On	281.72	516.20	2,100.96	234.48	115.17	Pump 2 Johnson Blvd. PS	cov
PMP-11	250.00	Off	284.43	513.05	0.00	0.00	113.81	Pump 1 Johnson Blvd. PS	COV
PMP-12	273.00	Off	364.88	498.66	0.00	0.00	97.63	Pump 2 Knotty Oak Rd. PS	cov
PMP-13	182.00	Off	233.44	422.94	0.00	0.00	104.25	Pump 4 Clinton Ave. PS	SCIT
PMP-14	182.00	On	232.65	425.03	3,238.73	192.38	105.15	Pump 3 Clinton Ave. PS	SCIT
PMP-15	182.00	On	232.65	425.04	3,238.67	192.39	105.15	Pump 2 Clinton Ave. PS	SCIT
PMP-16	182.00	On	232.65	425.04	3,238.74	192.38	105.15	Pump 1 Clinton Ave. PS	SCIT
PMP-17	130.00	On	223.90	363.00	1,655.88	139.10	100.81	Pump 1 Bald Hill Rd. PS	WAR
PMP-18	130.00	On	223.65	363.15	1,640.09	139.50	100.87	Pump 2 Bald Hill Rd. PS	WAR
PMP-19	130.00	On	220.46	355.97	1,786.56	135.51	97.77	Pump 4 Bald Hill Rd. PS	WAR
PMP-20	130.00	Off	226.61	349.39	0.00	0.00	94.92	Pump 3 Bald Hill Rd. PS	WAR
PMP-21	262.00	On	330.92	506.30	822.77	175.39	105.70	Setian Ln. PS Pump 1	ww
PMP-22	262.00	on on	331.97	500.87	0.00	0.00	103.35	Setian Ln. PS Pump 2	ww
PMP-24	238.00	Off	331.15	506.34	0.00	0.00	0 116.10	WW Business Park PS Pump 1	ww
PMP-25	238.00	On	324.94	507.66	872.29	182.72	116.67	WW Business Park PS Pump 2	ww
PMP-27	232.00	) On	332.01	598.68	4.54	266.67	7 158.65	EG Medical Center Fire Pump	EG
PMP-28	290.00	o off	316.53	344.99	0.00	0.00	23.79	Tiogue Tank Booster Pump 2	cov
PMP-29	290.00	off	316.53	344.99	0.00	0.0	23.79	Tiogue Tank Booster Pump 1	cov
PMP-30	182.0	0 Off	234.00	405.58	0.00	0.0	96.73	Clinton Ave. PS	SCIT
PMP-31	182.0	0 Off	234.00	405.58	0.00	0.0	96.73	Clinton Ave. PS	SCIT
PMP-32	261.0	0 On	420.12	547.4	9.04	127.2	9 115.26	Hope Rd. Booster PS	CRA
PMP-33	182.0	0 Off	233.44	422.93	3 0.00	0.0	0 104.24	Pump 5 Clinton Ave. PS	SCIT

## Scenario: MD Run 1 Steady State Analysis Reservoir Report

Label	Elevation (ft)	Zone	Inflow (gpm)	Calculated Hydraulic Grad (ft)	Description	Notes
R-1	235.00	Zone - 1	0.00	235.00	Mishnock Well 1	cov
R-2	259.00	Zone - 1	0.00	259.00	Mishnock Well 2 (Abandoned)	cov
R-3	246.24	Zone - 1	0.00	246.24	Mishnock Well 3	cov
R-5	229.80	Zone - 1	0.00	229.80	Coventry/Spring Lake Well	cov
R-6	15.50	Zone - 1	-1,144.10	15.50	EG Well Station 1	EG
R-7	231.00	Zone - 5	-511.89	231.00	Master Meter from Providence	CRA
R-8	234.00	Zone - 1	-9,716.14	234.00	Providence Water Aqueduct	SCIT
R-9	232.00	Zone - 6	-2,112.56	232.00	Warwick Tanks	WAR
R-10	232.00	Zone - 6	-2,977.15	232.00	Warwick Tanks	WAR

 Title: KCWA Hydrautic Model
 Project Engineer:

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 C&E Engineering
 WaterCAD v7.0 [07.00.049.00]

 02/17/06 11:38:182ABentley Systems, Inc.
 Haestad Methods Solution Center
 Watertown, CT 06795 USA
 +1-203-755-1666
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-	MD Run	e Analy	eport
-	nario: I	dy Stat	Tank R
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Description	Read School House Rd. Tank 1.5 MG - RSHR HS Tiogue Tank 0.771 MG - Inc. HS Frenchtown Rd. Tank 1.5 MG - LS Technology Park Tank - HS Carrs Pond Rd. Tank - HS West Street Tank 1 MG - Off Setian Lane Tank - LS Wakefield St. Tank - LS Seven Mile Rd. 0.5 MG - Off Seven Mile Rd. 1 MG - Off
Calculated Percent Fult (%)	92.5 87.5 96.0 90.0 93.9 90.0 90.0 90.0 100.0
Calculated Hydraulic Grade (ft)	427.00 345.00 332.00 495.00 328.00 328.00 334.00 334.00
Current Status	FIlling Draining Draining Filling Steady Draining Full Full
Inflow (gpm)	862.36 -122.11 -35.23 -35.23 -35.23 -35.23 -16.78 -16.78 -16.78 -0.00 0.00 0.00
Tank Diameter (ft)	80.00 58.00 73.00 75.25 80.00 58.00 58.00 70.00 N/A
Maximum Elevation (ft)	430.00 350.00 500.00 500.00 334.00 334.00 334.00 334.00 334.00 334.00
nttial HGL (∄)	427.00 345.00 332.00 495.00 495.00 328.00 327.00 334.00 334.00 334.00
Minimum Elevation (R)	390.00 310.00 284.00 418.00 284.00 314.00 328.00 328.00 328.00
Base Elevation (ft)	390.00 310.00 350.00 350.00 418.00 284.00 314.00 323.00 323.00
Zone	Zone - 7 Zone - 9 Zone - 1 Zone - 2 Zone - 1 Zone - 1 Zone - 1 Zone - 1 Zone - 1 Zone - 1
Label	T-1 T-2 T-4 T-4 T-5 T-5 T-6 T-6 T-7 T-8 T-9 T-9 T-10

Title: KCWA Hydraulic Model c:1...\0261 kcwa model\kcwa hydraulic model.wcd 02/17/06 11:38:33 AM © Bentley Systems, Inc. Haestad Methods Solution Center Watertown, CT 06795 USA +1-203-755-1668

Cenario: MD Run 1 Steady State Analysis Valve Report

Description	Love Ln. PRV Middle Rd. PRV Post Rd. PRV Division St. PRV Centarville Rd. PRV Cowesett Rd. PRV Helen Ave. PRV Mishnock Rd. PRV
Headloss (ft)	63.33 58.87 57.13 59.18 59.18 25.07 20.48 61.62 54.96
5 탄탄국	268.02 270.02 272.09 270.04 268.08 268.05 440.06 440.06
HGL HGL	331.35 328.89 329.22 329.22 329.22 293.16 288.54 501.68 501.68
To Pressure (psl)	27.70 29.88 52.80 52.80 100.84 61.89 69.25 69.25
From Pressure (psi)	55.10 55.33 55.33 129.46 71.69 70.75 95.91 71.39
Discharge (gpm)	272.41 365.26 535.00 480.38 417.16 521.12 521.12 312.42
Control Status	Throttling Throttling Throttling Throttling Throttling Throttling
Initial Valve Status	Active Active Active Active Active Active
Initial HGL (ft)	268.00 270.00 272.00 270.00 268.00 268.00 268.00 440.00
Diameter (in)	0.0 0.0 0.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Elevation (ft)	204.00 201.00 30.00 148.00 35.00 125.00 280.00 330.00
Label	PRV-1 PRV-2 PRV-3 PRV-5 PRV-5 PRV-5 PRV-5 PRV-5 PRV-6

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Appendix C Peak Hour Simulation Summary

# **Calculation Results Summary**

Scenario	: PH Run 1
[Analysis	Started]
[Steady S	State]
0:00	:00 Balanced after 7 trials; relative flow change = 0.000253
Flow S	Summary
Flov	v Supplied 16,932.36 gpm
Flow	v Demanded 17,962.26 gpm
Flov	v Stored -1,030.28 gpm
0:00:0	0 Reservoir R-1 is closed
0:00:0	0 Reservoir R-3 is closed
0:00:0	0 Reservoir R-2 is closed
0:00:0	0 Reservoir R-5 is closed
0:00:0	0 Reservoir R-6 is emptying
0:00:0	10 Reservoir R-7 is emptying
0:00:0	0 Reservoir R-8 is emptying
0:00:0	)0 Reservoir R-9 is emptying
0:00:0	0 Reservoir R-10 is emptying
0:00:0	00 Tank T-1 is filling at 37.00 ft
0:00:0	0 Tank T-2 is emptying at 35.00 ft
0:00:0	0 Tank T-3 is emptying at 48.00 ft
0:00:0	00 Tank T-4 is emptying at 145.00 ft
0:00:	00 Tank T-6 is closed at 44.00 ft
0:00:	00 Tank T-7 is emptying at 18.00 ft
0:00:	00 Tank T-8 is emptying at 63.00 ft
0:00:0	00 Tank T-9 is closed at 11.00 ft
0:00:0	00 Tank T-10 is closed at 11.00 π
0:00:	00 Tank 1-5 is filling at 77.00 ft
0:00:	00 PRV PRV-/ active
0:00:	00 PRV PRV-2 active
0:00:	00 PRV PRV-3 active
0:00:	00 PRV PRV-4 active
0:00:	00 PRV PRV-8 active
0:00:	UU PRV PRV-6 active
0:00:	OU PRV PRV-1 active
0:00	
[Analys	sis Endeaj

# Scenario: PH Run 1 Steady State Analysis Pump Report

Label	Elevation (ft)	Control Status	Intake Pump Grade (ft)	Discharge Pump Grade (ft)	Discharge (gpm)	Pump Head (ft)	Discharge Pump Pressure (psi)	Description	Notes
PMP-1	259.00	Off	235.00	308.82	0.00	0.00	21.56	Mishnock Well 1	cov
PMP-2	259.00	Off	259.00	308.82	0.00	0.00	21.56	Mishnock Well 2 (Abandoned)	cov
PMP-3	259.00	Off	246.24	308.82	0.00	0.00	21.56	Mishnock Well 3	cov
PMP-4	249.80	Off	229.80	307.18	0.00	0.00	24.82	Coventry/Spring Lake Well	cov
PMP-5	15.50	On	15.44	332.46	1,148.75	317.02	137.13	EG Well Station 1	EG
PMP-6	273.00	On	351.60	501.03	1,413.48	149.43	98.66	Pump 1 Knotty Oak Rd. PS	cov
PMP-9	250.00	On	278.18	510.61	780.59	232.43	112.76	Pump 3 Johnson Bivd. PS	cov
PMP-10	250.00	On	275.62	513.53	2,057.52	237.91	114.02	Pump 2 Johnson Blvd. PS	cov
PMP-11	250.00	Off	278.23	510.51	0.00	0.00	112.71	Pump 1 Johnson Blvd. PS	cov
PMP-12	273.00	Off	357.92	493.00	0.00	0.00	95.18	Pump 2 Knotty Oak Rd. PS	cov
PMP-13	182.00	Off	233.40	417.21	0.00	0.00	101.77	Pump 4 Clinton Ave. PS	SCIT
PMP-14	182.00	On	232.56	419.44	3,341.78	186.87	102.73	Pump 3 Clinton Ave. PS	SCIT
PMP-15	182.00	On	232.56	419.44	3,341.72	186.88	102.73	Pump 2 Clinton Ave. PS	SCIT
PMP-16	182.00	On	232.57	419.44	3,341.78	186.87	102.73	Pump 1 Clinton Ave. PS	SCIT
PMP-17	130.00	On	223.66	362.07	1,682.22	138.41	100.41	Pump 1 Bald Hill Rd. PS	WAR
PMP-18	130.00	On	223.40	362.23	1,666.31	138.83	100.48	Pump 2 Bald Hill Rd. PS	WAR
PMP-19	130.00	On	220.13	354.83	1,813.86	134.70	97.27	Pump 4 Baid Hill Rd. PS	WAR
PMP-20	130.00	Off	226.45	348.05	0.00	0.00	94.34	Pump 3 Bald Hill Rd. PS	WAR
PMP-21	262.00	On	330.90	504.63	830.48	173.73	3 104.97	Setian Ln. PS Pump 1	ww
PMP-22	262.00	off	331.97	499.10	0.00	0.00	102.58	Setian Ln. PS Pump 2	ww
PMP-24	238.00	Off	330.00	504.50	0.00	0.00	115.30	WW Business Park PS Pump 1	ww
PMP-25	238.00	On	323.72	505.84	877.41	182.12	2 115.88	WW Business Park PS Pump 2	ww
PMP-27	232.00	On	330.68	597.34	7.88	266.66	6 158.07	EG Medical Center Fire Pump	EG
PMP-28	290.00	off	309.54	344.99	0.00	0.00	23.79	Tiogue Tank Booster Pump 2	cov
PMP-29	290.00	off	309.54	344.99	0.00	0.00	23.79	Tiogue Tank Booster Pump 1	cov
PMP-30	182.00	off	234.00	398.9	0.00	0.0	93.85	5 Clinton Ave. PS	SCIT
PMP-31	182.00	oloff	234.00	398.9	3 0.00	0.0	93.8	5 Clinton Ave. PS	SCIT
PMP-32	281.00	On	413.96	531.4	10.31	117.4	4 108.34	Hope Rd. Booster PS	CRA
PMP-33	182.0	oloff	233.40	417.2	0.00	0.0	0 101.70	Pump 5 Clinton Ave. PS	SCIT

# Scenario: PH Run 1 Steady State Analysis Reservoir Report

Labei	Elevation (ft)	Zone	Inflow (gpm) I	Calculated Hydraulic Grade (ft)	Description	Notes
R-1	235.00	Zon <del>e</del> - 1	0.00	235.00	Mishnock Well 1	COV
R-2	259.00	Zone - 1	0.00	259.00	Mishnock Well 2 (Abandoned)	COV
R-3	246.24	Zone - 1	0.00	246.24	Mishnock Well 3	cov
R-5	229.80	Zone - 1	0.00	229.80	Coventry/Spring Lake Well	cov
R-6	15.50	Zone - 1	-1,148.75	15.50	EG Well Station 1	EG
R-7	231.00	Zone - 5	-587.75	231.00	Master Meter from Providence	CRA
R-8	234.00	Zone - 1	-10,025.28	234.00	Providence Water Aqueduct	SCIT
R-9	232.00	Zone - 6	-2,146.12	232.00	Warwick Tanks	WAR
R-10	232.00	Zone - 6	-3,024.45	232.00	Warwick Tanks	WAR

 Title: KCWA Hydraulic Model
 Project Engineer:

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 Page 1 of 1

_	PH Run 1	e Analvsis
_	scenario: F	oadv State
	0)	t

Steady State Analysis Tank Report

	SHR HS
Cescription	Read School House Rd. Tank 1.5 MG - RS Thogue Tank 0.771 MG - Inc. HS Frenchtown Rd. Tank 1.5 MG - LS Technology Park Tank - HS Carrs Pond Rd. Tank - HS West Street Tank 1 MG - Off Setian Lane Tank - LS Wakefield St. Tank - LS Seven Mile Rd. 0.5 MG - Off Seven Mile Rd. 1 MG - Off
Calculated Percent Full (%)	92.5 97.5 90.0 90.0 90.0 90.0 100.0
Calculated Hydraulic Grade (ft)	427.00 345.00 332.00 495.00 328.00 332.00 334.00 334.00
Current Status	Filling Draining Draining Filling Steady Draining Full Full
tnflow (mdg)	770.96 -139.31 -139.31 -687.17 -436.19 -88.01 -193.07 -193.07 -193.07 -193.07 -193.07 -0.00 0.00
Tank Diameter (ft)	80.00 58.00 73.00 75.25 80.00 58.00 160.00 70.00 N/A
Maximum Elevation (ft)	430.00 350.00 500.00 500.00 334.00 334.00 334.00 334.00 334.00
tnitial HGL (ft)	427.00 345.00 332.00 495.00 495.00 328.00 332.00 332.00 334.00 334.00
Minimum Elevation (ft)	390.00 310.00 284.00 418.00 284.00 314.00 328.00 328.00 328.00
Base Elevation (ft)	390.00 310.00 284.00 350.00 418.00 284.00 314.00 314.00 323.00 323.00
Zone	Zone - 7 Zone - 9 Zone - 9 Zone - 1 Zone - 1 Zone - 1 Zone - 1 Zone - 1 Zone - 1 Zone - 1
Label	7-1 7-2 7-3 7-5 7-5 7-6 7-6 7-7 7-9 7-9 7-10

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Scenario: PH Run 1 Steady State Analysis Valve Report

Description	Love Ln. PRV Middle Rd. PRV Post Rd. PRV Division St. PRV Centerville Rd. PRV Cowesett Rd. PRV Helen Ave. PRV Mishnock Rd. PRV
Headloss (ft)	61.64 56.94 55.37 56.98 5.82 6.82 1.04 59.11 54.01
2 달로	268.02 270.02 272.09 270.04 268.08 268.08 440.06 440.06
E E E E E E E E E E E E E E E E E E E	329.66 326.97 327.48 327.02 274.91 269.09 499.17 494.05
To Pressure (psi)	27.70 29.86 104.74 52.80 61.89 69.25 69.25
From Pressure (psi)	54.37 54.50 128.70 77.45 103.80 62.34 94.82 94.82 70.98
Discharge (gpm) 1	350.88 414.49 578.77 538.39 538.39 625.81 625.81 500.40 385.08
Control Status	Throttling Throttling Throttling Throttling Throttling Throttling
Initial Valve Status	Active Active Active Active Active Active
E H G H C H C H	268.00 270.00 272.00 270.00 268.00 268.00 268.00 440.00
Diameter (in)	0.000000000000000000000000000000000000
Elevation (ft)	204.00 201.00 30.00 148.00 35.00 125.00 280.00 230.00
Labei	PRV-1 PRV-2 PRV-4 PRV-5 PRV-5 PRV-6 PRV-6

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