19. Utility Capacity to Serve Letters

We have requested letters from the appropriate utility companies expressing their ability to serve the project, and will submit these to the City once received.

The following utilities will service the project:

<u>Utility</u>	Provider	<u>Location</u>
Water Service	Portland Water District	Front St. / Illsley St. / West Presumpscot St.
Sanitary Sewer	City of Portland	Front St. / Illsley St. / West Presumpscot St.
Stormdrain	City of Portland	Front St. / Illsley St. / West Presumpscot St.
Power	Central Maine Power	Front St. / Illsley St. / West Presumpscot St.

Customer	Portland Housing Development Cooporation
Street Address	63 and 37 Front Street
City	Portland
Building	1

Fixture	Fixture Value	•	No. of Fixtures		Fixture Value
Bathtub	8	Х	16	=	128
Bedpan Washers	10	X	0	=	0
Bidet	2	X	0	=	0
Dental Unit	2	X	0	=	0
Drinking Fountain - Public	2	X	2	=	4
Kitchen Sink	2.2	Х	16	=	35.2
Lavatory	1.5	X	22	=	33
Showerhead (Shower Only)	2.5	Х	0	=	0
Service Sink	4	Х	1	=	4
Toilet -Flush Valve	35	Х	2	=	70
-Tank Type	4	х	20	=	80
Urinal -Pedestal Flush Valve	35	х	0	=	0
-Wall Flush Valve	16	Х	0	=	0
Wash Sink (Each Set of Faucets)	4	Х	1	=	4
Dishwasher	2	Х	0	=	0
Washing Machine	6	Х	3	=	18
Hose (50 ft. Wash Down) -1/2 in.	5	Х	0	=	0
, -5/8 in.	9	Х	0	=	0
-3/4 in.	12	Х	4	=	48
Combined Fixture Value Total					424.2
Customer Peak Demand From Fig. 4-2 or 4-3 Pressure Factor From Table 4-1					
Pressure Factor From Table 4-1					
No. of Irrigation Sections (Areas of 100 sq. ft.)					
Irrigation Factor (1.16-Spray Systems,					
0.40-Rotary Systems)					
Hose Bibs for Irrigation:					
Fixture	No. of				
Size Value	Fixtures				
1/2"					
- (0.1)					

5/8" 3/4"

Total Fixed Demand (Peak Flow)

0 gpm

Customer	Portland Housing Development Cooporation
Street Address	63 and 37 Front Street
City	Portland
Building	2

			_	
	Fixture Value	No. of		Fixture
Fixture	60 psi	Fixtures		Value
Bathtub	-	x 15	=	120
Bedpan Washers	_	x 0	=	0
Bidet		x 0	=	0
Dental Unit		x 0	=	0
Drinking Fountain - Public	2	x 0	=	0
Kitchen Sink	2.2	x 13	=	28.6
Lavatory	1.5	x 18	=	27
Showerhead (Shower Only)	2.5	x 0	_	0
Service Sink	4	x 1	=	4
Toilet -Flush Valve	35	x 0	=	0
-Tank Type	4	x 18	=	72
Urinal -Pedestal Flush Valve	35	x 0	=	0
-Wall Flush Valve	16	x 0	=	0
Wash Sink (Each Set of Faucets)	4	x 1	=	4
Dishwasher	2	x 0	=	0
Washing Machine	6	x 3	=	18
Hose (50 ft. Wash Down) -1/2 in.	5	x 0	=	0
-5/8 in.	9	x 0	=	0
-3/4 in.	12	x 2	=	24
Combined Fixture Value Total				297.6
Customer Peak Demand From Fig. 4-2 or 4-3 Pressure Factor From Table 4-1				
<u> </u>				
No. of Irrigation Sections (Areas of 100 sq. ft.)				
Irrigation Factor (1.16-Spray Systems, 0.40-Rotary Systems)				
Hose Bibs for Irrigation:	o No of			
Fixtur	e No. of			

Value

Size 1/2" 5/8" 3/4" Fixtures

Total Fixed Demand (Peak Flow)

0 gpm

Customer	Portland Housing Development Cooporation
Street Address	63 and 37 Front Street
City	Portland
Building	3

			Fixture Valu	е	No. of		Fixture
Fixture			60 psi		Fixtures		Value
Bathtub			8	Х	25	=	200
Bedpan Washers			10	Х	0	=	0
Bidet			2	Х	0	=	0
Dental Unit			2	Х	0	=	0
Drinking Fountain - Publi	С		2	Х	0	=	0
Kitchen Sink			2.2	Х	19	=	41.8
Lavatory			1.5	Х	28	=	42
Showerhead (Shower Or	ıly)		2.5	Х	0	=	0
Service Sink			4	Х	1	=	4
Toilet -Flush Valve			35	Х	0	=	0
-Tank Type			4	Х	28	=	112
Urinal -Pedestal Flush V	/alve		35	Х	0	=	0
-Wall Flush Valve)		16	Х	0	=	0
Wash Sink (Each Set of I	Faucets)		4	Х	1	=	4
Dishwasher	,		2	Х	0	=	0
Washing Machine			6	Х	5	=	30
Hose (50 ft. Wash Down)) -1/2 in.		5	Х	0	=	0
`	-5/8 in.		9	Х	0	=	0
	-3/4 in.		12	Χ	4	=	48
Combined Fixture Value	Total						481.8
Customer Peak Demand	From Fig. 4-2 or 4	4-3					
Pressure Factor From Ta	ble 4-1						
No. of Irrigation Sections	(Areas of 100 sq.	ft)					
Irrigation Factor	(1.16-Spray Sys						
3	0.40-Rotary Sys		<u> </u>				
Hose Bibs for Irrigation:	or to readily by	5.55,					
The second second		Fixture	No. of				
	Size	Value	Fixtures				
	1/2"	7 4140	1 1/1(0100				

Hose Bibs for Irrigation:	0.40-Rotary S	ystems)	
Trees Blee for imigation.	0.	Fixture	No. of
	Size	Value	Fixtures
	1/2"		
	5/8"		
	3/4"		

Total Fixed Demand (Peak Flow)

	ı
0	gpn

Customer	Portland Housing Development Cooporation
Street Address	63 and 37 Front Street
City	Portland
Building	4

		Fixture Valu	e	No. of		Fixture
Fixture		60 psi	•	Fixtures		Value
Bathtub		8	Х	15	=	120
Bedpan Washers		10	Х	0	=	0
Bidet		2	Х	0	=	0
Dental Unit		2	Х	0	=	0
Drinking Fountain - Pub	olic	2	Х	0	=	0
Kitchen Sink		2.2	Х	13	=	28.6
Lavatory		1.5	Х	18	=	27
Showerhead (Shower (Only)	2.5	Х	0	=	0
Service Sink `	,	4	Х	1	=	4
Toilet -Flush Valve		35	Х	0	=	0
-Tank Type		4	Х	18	=	72
Urinal -Pedestal Flush	Valve	35	Х	0	=	0
-Wall Flush Val	ve	16	Х	0	=	0
Wash Sink (Each Set o	f Faucets)	4	Х	1	=	4
Dishwasher	,	2	Х	0	=	0
Washing Machine		6	Х	3	=	18
Hose (50 ft. Wash Dow	n) -1/2 in.	5	Х	0	=	0
•	-5/8 in.	9	Х	0	=	0
	-3/4 in.	12	Χ	2	=	24
Combined Fixture Valu	Combined Fixture Value Total					297.6
Customer Peak Demar Pressure Factor From	<u> </u>					
No. of Irrigation Section	ns (Areas of 100 sq. ft.)					
Irrigation Factor	(1.16-Spray Systems,					
	0.40-Rotary Systems)	<u> </u>				
Hose Bibs for Irrigation:						
	Fixtu	re No. of				
	Size Valu	ie Fixtures				
	1/2"					

5/8" 3/4"

Total Fixed Demand (Peak Flow)

	i
0	gpr

Customer	Portland Housing Development Cooporation
Street Address	63 and 37 Front Street
City	Portland
Building	5

	Fixture Value	_	No. of		Fixture
Fixture	60 psi	•	Fixtures		Value
Bathtub	8	Х	24	=	192
Bedpan Washers	10	Х	0	=	0
Bidet	2	Х	0	=	0
Dental Unit	2	Х	0	=	0
Drinking Fountain - Public	2	Х	0	=	0
Kitchen Sink	2.2	Х	19	=	41.8
Lavatory	1.5	Х	26	=	39
Showerhead (Shower Only)	2.5	Х	0	=	0
Service Sink	4	Х	1	=	4
Toilet -Flush Valve	35	Х	0	=	0
-Tank Type	4	Х	26	=	104
Urinal -Pedestal Flush Valve	35	Х	0	=	0
-Wall Flush Valve	16	Х	0	=	0
Wash Sink (Each Set of Faucets)	4	Х	1	=	4
Dishwasher	2	Х	0	=	0
Washing Machine	6	Х	5	=	30
Hose (50 ft. Wash Down) -1/2 in.	5	Х	0	=	0
-5/8 in.	9	Х	0	=	0
-3/4 in.	12	Х	4	=	48
Combined Fixture Value Total					462.8
Customer Peak Demand From Fig. 4-2 or 4-3 Pressure Factor From Table 4-1					
No. of Irrigation Sections (Areas of 100 sq. ft.)					
Irrigation Factor (1.16-Spray Systems,					
0.40-Rotary Systems)					
Hose Bibs for Irrigation:					
Fixture	No. of				
Size Value	Fixtures				

1/2" 5/8" 3/4"

Total Fixed Demand (Peak Flow)

0 gpm

Customer	Portland Housing Development Cooporation		
Street Address	63 and 37 Front Street		
City	Portland		
Building	6		

	Fixture Value	•	No. of		Fixture
Fixture	60 psi		Fixtures		Value
Bathtub	8	Х	23	=	184
Bedpan Washers	10	Χ	0	=	0
Bidet	2	Χ	0	=	0
Dental Unit	2	Χ	0	=	0
Drinking Fountain - Public	2	Χ	2	=	4
Kitchen Sink	2.2	Χ	20	=	44
Lavatory	1.5	Χ	28	=	42
Showerhead (Shower Only)	2.5	Χ	0	=	0
Service Sink	4	Χ	1	=	4
Toilet -Flush Valve	35	Χ	2	=	70
-Tank Type	4	Χ	28	=	112
Urinal -Pedestal Flush Valve	35	Χ	0	=	0
-Wall Flush Valve	16	Χ	0	=	0
Wash Sink (Each Set of Faucets)	4	Χ	1	=	4
Dishwasher	2	Χ	0	=	0
Washing Machine	6	Х	5	=	30
Hose (50 ft. Wash Down) -1/2 in.	5	Х	0	=	0
-5/8 in.	9	Х	0	=	0
-3/4 in.	12	Х	4	=	48
Combined Fixture Value Total					542
Customer Peak Demand From Fig. 4-2 or 4-3 Pressure Factor From Table 4-1					

No. of Irrigation Sections			
Irrigation Factor	(1.16-Spray Systems,		
	0.40-Rotary Sy	•	
Hose Bibs for Irrigation:		,	
		Fixture	No. of
	Size	Value	Fixtures
	1/2"		
	5/8"		
	3/4"		

Total Fixed Demand (Peak Flow)

0	gpm



Consulting Engineers and Scientists

October 10, 2017 Project 151.06170

MEANS Division, Portland Water District 225 Douglass Street PO Box 3553 Portland, Maine 04104-3553

RE: Request for Capacity to Serve Determination.
Proposed 99 Unit Apartment Development
63 & 37 Front Street, Portland

To whom it may concern:

This letter is requesting a determination of whether the Portland Water District has the capacity to serve a proposed development located at 63 and 37 Front Street in Portland. The development will include six two-story buildings with a community space in Building 1. Please see the attached *Peak Flow Based on Fixture Count Spreadsheet*.

Enclosed, to assist in your review, are utility and drainage plans. It is our understanding that four (4) 4-inch water services currently serve the existing buildings. We propose to reuse these services to provide domestic water service for Buildings 1, 4, 5 and 6. New domestic services are proposed for Buildings 2 and 3 and a new fire service is proposed for each of the 6 buildings. Each service will have its own valve for independent operation; the only exception being a single fire service feeding Buildings 2 and 3.

Please let us know whether this proposed configuration is acceptable in terms of capacity and operation, and provide us with any specific service connection requirements. This development will have a sprinkler system for fire protection.

Please let me know if you have any questions or would like additional information: (207) 772-2891.

Sincerely,

John Mahoney, P.E. Project Engineer

John Mahoney

Enclosure: Peak Flow Based on Fixture Count Spreadsheet & Utility Plans for the Front Street Redevelopment.



Consulting Engineers and Scientists

October 10, 2017 Project 151.06170

Jaime Cough Central Maine Power Company 162 Canco Road Portland, Maine 04103

RE: Electric Service for:

Proposed 99 Unit Redevelopment 63 & 37 Front Street, Portland Account #: 4411941586001 Work Order#: 10300401291

Dear Jaime:

We are working with Front Street Housing Redevelopment, LP on the redevelopment of Portland Housing Authority's property located at 63 and 37 Front Street in Portland. This site currently contains 50 units within 19 buildings. The proposed development will consist of 6 buildings containing 99 residential apartment units.

All of the new buildings are currently proposed as walk-ups; however we would like to preserve the potential for an elevator in Building 6. All utilities will be underground and we are proposing three transformers. Please refer to the attached utility plans for additional information. We are currently working through load calculations and CMP's Easement Information Worksheet and will forward this information as it becomes available.

Please let us know you have any comments or concerns or if this proposed electric configuration is acceptable. Also, any guidance on next steps would be most appreciated.

Please let me know if you have any questions or would like additional information: (207) 772-2891.

Sincerely,

John Mahoney, P.E. Project Engineer

In Mahoney

Enclosure: Utility Plans for the Front Street Redevelopment.