CITY OF PORTLAND WASTEWATER CAPACITY APPLICATION

Department of Public Services,
55 Portland Street,
Portland, Maine 04101-2991

Date: FEBRUARY 26, 2018

Bradley Roland, P.E.
Water Resources Division

1. Please, Submit Utility, Site, and Locus Plans.

Site Address: 82 HANOVER STREET

Chart Block Lot Number: 034 G001001

Proposed Use: EATERIES, OFFICES & RETAILERS
Previous Use: AUTO SERVICE / OFFICES
Existing Sanitary Flows: 120 GPD
Existing Process Flows: 0 GPD
Description and location of City sewer that is to receive the proposed building sewer lateral.

EXISTING 12" VITRIFIED CLAY SEWER MAIN WITHIN PARRIS STREET

Site Category		
	Commercial *(see part 4 below)*	X
	Industrial *(complete part 5 below)*	
	Governmental	
	Residential	
	Other *(specify)*	

Clearly, indicate the proposed connections, on the submitted plans.

2. Please, Submit Contact Information.

City Planner's Name: TBD Phone: _____
Owner/Developer Name: TOM WATSON & CO. LLC
Owner/Developer Address: 138 STATE STREET, 3RD FLOOR, PORTLAND ME 04101
Phone: (207) 252-0358 Fax: N/A E-mail: TOM@PORTPROPMGT.COM
Engineering Consultant Name: ACORN ENGINEERING, INC
Engineering Consultant Address: 153 DANFORTH ST. PORTLAND, ME 04102
Phone: (207) 775-2655 Fax: N/A E-mail: WSAVAGE@ACORN-ENGINEERING.COM

Note: Consultants and Developers should allow +/- 15 days, for capacity status, prior to Planning Board Review.

3. Please, Submit Domestic Wastewater Design Flow Calculations.

Estimated Domestic Wastewater Flow Generated: SEE ATTACHED TABLE GPD
Peaking Factor/ Peak Times: _____
Specify the source of design guidelines: *(i.e.__"Handbook of Subsurface Wastewater Disposal in Maine," __ "Plumbers and Pipe Fitters Calculation Manual," __ Portland Water District Records, Other (specify)* _____

Note: Please submit calculations showing the derivation of your design flows, either on the following page, in the space provided, or attached, as a separate sheet.

4. Please, Submit External Grease Interceptor Calculations.

Total Drainage Fixture Unit (DFU) Values: TBD

Size of External Grease Interceptor: _____

Retention Time: _____

Peaking Factor/ Peak Times: _____

Note: In determining your restaurant process water flows, and the size of your external grease interceptor, please use The Uniform Plumbing Code. Note: In determining the retention time, sixty (60) minutes is the minimum retention time. Note: Please submit detailed calculations showing the derivation of your restaurant process water design flows, and please submit detailed calculations showing the derivation of the size of your external grease interceptor, either in the space provided below, or attached, as a separate sheet.

5. Please, Submit Industrial Process Wastewater Flow Calculations

Estimated Industrial Process Wastewater Flows Generated: N/A GPD

Do you currently hold Federal or State discharge permits? Yes ____ No ____

Is the process wastewater termed categorical under CFR 40? Yes ____ No ____

OSHA Standard Industrial Code (SIC): *(http://www.osha.gov/oshstats/sicser.html)*

Peaking Factor/Peak Process Times: _____

Note: On the submitted plans, please show where the building's domestic sanitary sewer laterals, as well as the building's industrial-commercial process wastewater sewer laterals exits the facility. Also, show where these building sewer laterals enter the city's sewer. Finally, show the location of the wet wells, control manholes, or other access points; and, the locations of filters, strainers, or grease traps.

Note: Please submit detailed calculations showing the derivation of your design flows, either in the space provided, or attached, as a separate sheet.

Calculation of Wastewater Flowrate for 82 Hanover Redevelopment

The proposed project will include the redevelopment of an existing two-story building with auto service space on the ground level and office space on the second floor. The proposed changes in use of the existing building include restaurants, retail, and office space. Based upon the Section 4 of the Maine Subsurface Wastewater Disposal Rules, the project anticipates the following daily flows:

Estimate of Design Flows			
Classification of Water Demand	**Number of Units**	**Gallons per Day per unit**	**Total Gallons per Day**
Existing			
Office (Employee at place of employment without showers: 12 GPD per employee)	10	12	120
Proposed			
Bar/ Eatery (12 GPD per employee + 15 GPD per seat)	5 employees 40 seats	12 15	660
Eating Place, 2 meals/day (20 GPD per seat + 12 GPD per employee)	10 employees 60 seats	12 20	1,320
Warehouse (100 GPD or 12 GPD per employee, whichever is greater)	-	-	100
Office/Retail (Employee at place of employment without showers: 12 GPD per employee)	20	12	240
Coffee shop/Bakery (100 GPD + 12 GPD per employee)	4	12	148
Fitness Center (50 GPD per 100 SF)	30	50	1,500
Small Brewery (2,500 GPD* + 12 GPD per employee or customer)	30 employees/customers	12	2,860
		Total Existing	**120**
		Total Proposed	**6,708**
		Net Change	**+6,828 GPD**