

Appendix N

Natural Gas and Electric Loads

Prepared by Alliid Consulting Engineering Services, dated April 11, 2017

Whispering Pines
Rotterdam, NY
Preliminary Electric Service Estimate

April 11, 2017

Main Building

Phase 1	1440 kVA	4,000 amp service, 208V/3 phase
Phase 2	910 kVA	2,500 amp service, 208V/3 phase
Phase 3	720 kVA	2,000 amp service, 208V/3 phase

Other Buildings

Single Family Dwelling (each)	24 kW	125A service, 240V/1 phase
Townhomes (each)	24 kW	125A service, 240V/1 phase
Medical Office Building	84 kW	400A service, 208V/3 phase
Clubhouse	38 kW	200A service, 240V/1 phase
Maintenance Building	16 kW	100A service, 240V/1 phase

Whispering Pines
Rotterdam, NY
Preliminary Gas Usage Estimate

April 11, 2017

Assumptions:

1. Gas to be used for space heating and ventilation heating
2. Gas to be used for domestic water heating (central system)
3. Gas to be used for commercial kitchen equipment
4. Appliances in resident units (if any) will be electric

Main Building

Ph 1 Heating	5,840 cubic feet per hour (CFH)
Ph 1 Domestic HW	2,000 CFH
Ph 2 Heating	2,860 CFH
Ph 2 Domestic HW	1,000 CFH
Ph 3 Heating	2,200 CFH
Ph 3 Domestic HW	2,000 CFH
<u>Kitchen Equipment</u>	<u>2,250 CFH</u>
Total	18,150 CFH

Other Buildings

Single Family Dwelling (each)

Furnace	60 CFH
Water Heater	40 CFH
Gas Stove	65 CFH
<u>Gas Dryer</u>	<u>35 CFH</u>
	200 CFH each
97 Units	19,400 CFH Total

Townhomes

Furnace	40 CFH
Water Heater	40 CFH
Gas Stove	65 CFH
<u>Gas Dryer</u>	<u>35 CFH</u>
	180 CFH each
30 Units	5,400 CFH Total

Medical Office Building

Heating	240 CFH
<u>Water Heater</u>	<u>120 CFH</u>
Total	360 CFH

Clubhouse

Heating	180 CFH
<u>Water Heater</u>	<u>200 CFH</u>
Total	380 CFH

Maintenance Building

Heating	60 CFH
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Total for site 43,750 CFH