

PART 1 - GENERAL

- 1.1 REFERENCES
- .1 American National Standards Institute/Canadian Standards Association (ANSI/CSA).
 - .2 Canada Green Building Council (CaGBC)
 - .1 LEED Canada-NC-2009, LEED (Leadership in Energy and Environmental Design): Green Building Rating System Reference Package For New Construction and Major Renovations.
 - .3 Canadian Standards Association (CSA International)
 - .1 CSA B51-03(R2007), Boiler, Pressure Vessel, and Pressure Piping Code.
 - .2 CAN/CSA C22.2 No.110-94(R2004), Construction and Test of Electric Storage Tank Water Heaters.
- 1.2 ACTION AND INFORMATIONAL SUBMITTALS
- .1 Provide submittals in accordance with Section 01 33 00 - Submittal Procedures.
 - .2 Product Data:
 - .1 Provide manufacturer's printed product literature and datasheets for domestic water heater, and include product characteristics, performance criteria, physical size, finish and limitations.
 - .3 Shop Drawings:
 - .1 Provide drawings stamped and signed by professional engineer registered or licensed in the Province of Newfoundland and Labrador, Canada.
 - .2 Indicate:
 - .1 Equipment, including connections, fittings, control assemblies and ancillaries, identifying factory and field assembled.
 - .4 Sustainable Design Submittals:
 - .1 LEED Submittals: in accordance with Section 01 35 21 - LEED Requirements.
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2.2 HYBRID .3 Self contained heat pump unit integrated unto
ELECTRIC WATER top of tank. Operating modes include
HEATER efficiency, hybrid or electric. Vacation
 (Cont'd) setting can be selected to reduce operating
 costs during extended absence.

2.3 TRIM AND .1 Drain valve: NPS 1 with hose end.
INSTRUMENTATION .2 Electronic user interface allows for control
 of temperatire setting, operating mode and
 communicates diagnostics.
 .3 Thermometer: 100 mm dial type with red
 pointer and thermowell filled with conductive
 paste.
 .4 Pressure gauge: 75 mm dial type with red
 pointer, syphon, and shut-off cock.
 .5 Thermowell filled with conductive paste for
 control valve temperature sensor.
 .6 ASME rated temperature and pressure relief
 valve sized for full capacity of heater
 control valve, having discharge terminating
 over floor drain and visible to operators.
 .7 Anode rods with stainless steel cable.
 Adequate for 20 years of operation and located
 for easy replacement.
 .8 Acceptable Product: A.O. SMith - Residential
 hybrid electric heat pump water heater, or
 approved equal.

2.4 ANCHOR BOLTS .1 Supply anchor bolts and templates for
AND TEMPLATES installation in concrete support pad in
 accordance with Section 03 30 00 -
 Cast-in-Place Concrete.
