**CSI 3-Part Specification for DRE**

1. **General**
   1. **Summary**
      1. Related Documents
         1. Drawings and general provisions of the Subcontract apply to this Section.
         2. Review these documents for coordination with additional requirements and information that apply to the work under this section.
      2. Section Includes
         1. Water Heater
   2. **References**
      1. General
         1. The following documents form part of the Specifications to the extent stated. Where differences exist between codes and standards, the one affording the greatest protection shall apply.
         2. Unless otherwise noted, the referenced standard edition is the current one at the time of commencement of the Work.
         3. Refer to Division 01 Section "General Requirements" for the list of applicable regulatory requirements.
   3. **Submittals**
      1. Submit shop drawings/product data sheets for all products specified in Part 2 of this Section.
   4. **Quality Assurance**
      1. All materials shall meet or exceed all applicable referenced standards, federal, Province/State and local requirements, and conform to codes and ordinances of authorities having jurisdiction.
2. **Products**
   1. **Water Heater**
      * 1. The heater(s) shall be Gold Series Commercial Electric Model Number \_\_\_\_\_\_\_\_\_\_\_\_\_\_ as manufactured by A. O. Smith. Heater(s) shall be rated at \_\_\_\_\_\_\_\_\_\_\_\_ kW, \_\_\_\_\_\_\_volts, \_\_\_\_\_\_\_\_\_\_\_\_ phase, 60 cycle AC.
        2. Tank(s) shall be \_\_\_\_\_\_\_\_ (50, 80 or 119) gallon capacity
        3. Tanks shall have\_\_\_\_\_\_\_\_\_\_\_ (150 [Std] or 160 [ASME]) psi working pressure and be equipped with extruded high-density anode.
        4. All internal surfaces of the heater(s) exposed to water shall be glass lined with an alkaline borosilicate composition that has been fused-to-steel by firing at a temperature range of 1400°F to 1600°F.
        5. Electric heating elements shall be low watt density. Each element shall be controlled by an individually mounted thermostat and high temperature cut-off switch.
        6. All internal circuits shall be fused.
        7. The outer jacket shall be of baked enamel finish and shall be provided with full size control compartment for performance of service and maintenance through hinged front panel and shall enclose the tank with foam insulation.
        8. Electrical junction box with heavy duty terminal block shall be provided.
        9. The drain valve shall be located in the front for ease of servicing.
        10. Heater tank shall have a three-year limited warranty as outlined in the written warranty.

Basis of Design:

* + - * 1. A.O. Smith DRE

1. **Certifications & Regulatory Compliance**
   1. All models are designed certified by Underwriters’ Laboratories and approved to the NSF Standard 5 by UL.
   2. All models meet standby loss requirements of NRCan and current edition of ASHRAE/IES 90.1.
   3. Manufacturer shall supply ASME rated temperature and pressure relief valve.
   4. ASME tank construction optional on all model sizes
2. **Execution**
   1. **Demolition**
      1. Refer to demolition requirements specified in Section entitled Demolition and Revision Work.
   2. **Installation**
      1. Installed in accordance with manufacturer’s instructions.

**End of Section**