**CSI 3-Part Specification for DVE**

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 Xi 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 models meet National Sanitation Foundation NSF-5 requirements.
        5. . Water heater shall have LCD display with built-in diagnostic and troubleshooting information.
        6. 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.
        7. Electric heating elements shall be low watt density. Each element shall be controlled by an individually mounted thermostat and high temperature cut-off switch.
        8. Internal power circuit fusing shall be provided.
        9. Element operation shall be linear sequencing through individual magnetic contactors.
        10. Control circuit shall be factory fused and include an immersion thermistor temperature probe with built in ECO control.
        11. Control cabinet and jacket shall be of baked enamel finish and shall provide full size control and element compartment for complete service and maintenance performance through front hinged compartment door and enclose tank with foam insulation.
        12. 1 1/4” inlet and outlet connection shall be provided.
        13. Heater tank shall have a three-year limited warranty as outlined in the written warranty.

Basis of Design:

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

1. **Certifications & Regulatory Compliance**
   1. All models are designed certified by Underwriters Laboratories (UL), Inc., to ANSI Z21.10.3- CSA 4.3 Standards
   2. All models meet standby loss requirements of NRCan and current edition of ASHRAE/IES 90.1.
   3. All models meet National Sanitation Foundation NSF-5 requirements.
   4. Manufacturer shall supply ASME rated temperature and pressure relief valve.
   5. 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**