PART 1 - GENERAL

1.01 WORK INCLUDED

1. Electric Water Coolers/Bottle Fillers
2. Water Heaters
3. Emergency Showers and Eyewash Stations
4. Backflow Preventers
5. Emergency Eye and Face Wash
6. Circulating Pumps
7. Laundry Equipment
8. Kitchen Equipment
9. Cleanouts
10. Traps and Interceptors
11. Prohibited Products

1.02 RELATED WORK

1. Section 10 21 13…Toilet Compartments
2. Section 11 40 00…Foodservice Equipment
3. Section 23 05 53…Piping, Valves and Equipment
4. Section 23 11 23…Facility Natural Gas Piping
5. Section 31 00 00… Earthwork
6. Section 32 90 00…Irrigation

1.03 REFERENCES

A. NFPA 70—National Electrical Code

B. NFPA 54 - National Fuel Gas Code

C. NFPA 58 - Liquefied Petroleum Gas Code

D. AWWA Manual M14 – Backflow Prevention & Cross-Connection Control

E. F.A.C. 64E-11…Food Hygiene

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1.04 QUALITY ASSURANCE

A. Provide equipment manufacturer's name, model number, and rating/capacity identified.

B. Ensure products and installation of specified products are in conformance with recommendations and requirements of the following organizations:

1. National Sanitation Foundation (NSF)

2. American Society of Mechanical Engineers (ASME)

3. National Electrical Manufacturers' Association (NEMA)

4. Underwriters Laboratories (UL)

1.05 REGULATORY REQUIREMENTS

Conform to ANSI/NFPA 70 and UL 174 requirements for water heaters.

1.06 SUBMITTALS

A. Submit shop drawings and product data under provisions of Division 01.

B. Include dimension drawings indicating components and connections to other equipment and piping.

1.07 OPERATION AND MAINTENANCE DATA

A. Submit operation and maintenance data under provisions of Division 01.

B. Include operation, maintenance, and inspection data, replacement part numbers and availability, and service depot location and telephone number.

1.08 DELIVERY, STORAGE, AND HANDLING

A. Deliver products to site under provisions of Division 1.

B. Store and protect products under provisions of Division 01.

C. Provide temporary inlet and outlet caps. Maintain caps in place until installation.

1.09 WARRANTY

A. Provide five (5) year manufacturer's limited warranty under provisions of Division 1.

B. Warranty: Include coverage of domestic water heaters.

C. Warranty: Include coverage of electric water cooler compressor for five (5) years.

PART 2 – PRODUCTS

2.01 SCHEDULE

Refer to Plumbing Fixture Schedule on drawings for further information.

2.02 BACKFLOW DEVICES

Reduced Pressure (RP) Double Check (DC), Director Check, and Spill-Resistant/Proof Vacuum Breaker (V/B) shall be Manufacturer supplied as an Assembly complete with Shutoff Valves.

2.03 BOTTLE FILLERS/WATER COOLERS

1. Bottle filling station and cooler shall be all Stainless Steel (S/S), ADA compliant, and vandal resistant. Approved product shall be “ELKAY model LVRC8WS ezH2O Bottle Filling station and Cooler”.

2.04 PROHIBITED PRODUCTS

1. Air admittance valves – use and location must be per-approved by District Building Official.
2. Sch. 40 PVC male adapters (sch. 80, acceptable).
3. Saddle tees (tapping sleeves on water mains expectable).
4. Two clamp “No Hub” bands.
5. Compression couplings (slip nut style dresser couplings).
6. Sanitary Crosses.
7. Brass/ Copper Ball Valve for CPVC (Sioux Chief 648 series)

PART 3 – EXECUTION

3.01 WATER HEATER INSTALLATION

1. Install water heater and chiller in accordance with manufacturer's instructions and to NFPA and UL requirements.
2. Coordinate with plumbing piping and related electrical work to achieve operating system.

3.02 WATER COOLER INSTALLATION

1. For Stainless Steel (S/S) or Molded Stone drinking fountains with remote chiller, the chiller must be located with-in 6’ developed length of fountain.
2. Laundry Equipment
3. Washing machine boxes for residential washers shall have built-in air hammer arresters.
4. Ice maker boxes shall have built-in air hammer arresters.
5. All washing machines shall drain into an approved lint interceptor.

3.03 KITCHEN EQUIPMENT INSTALLATION

1. All kitchen equipment and sinks shall be indirectly wasted.
2. Automatic ice makers/machines shall have air hammer arrester install at control stop.

3.04 CLEANOUT INSTALLATION

1. Two-way style cleanout fittings shall be on inlet and outlet of all grease traps and interceptors
2. All ground lever cleanout covers shall be protected with concrete pad.

3.05 TRAPS AND INTERCEPTOR INSTALLATION

1. The sanitary sewer system shall be protected by means of the following traps of interceptors as required by the Building Official.
   1. Grease

* 1. Oil
  2. Acid
  3. Lint, Solids, Sand or Hair

3.02 BACKFLOW ASSEMBLY INSTALLATION

1. Backflow Assemblies shall be installed a Minimum of 12” Above Grade, and no Higher than 60” Above Grade.

3.03 TESTING OF BACKFLOW ASSEMBLIES

Backflow Assemblies shall be tested for proper operation by a Certified Testing Technician (DBPR or AWWA Approved)

**END OF SECTION**