SECTION 22 10 00 – PLUMBING SYSTEMS – GENERAL

1.1 PLUMBING GENERAL

A. Design systems so that all components requiring access are easy to reach for maintenance. These components include, but are not limited to valves and clean-outs. Provide appropriate size access doors for servicing of all devices. Use only screwdriver operated access latching. Keyed locks on doors are not permitted. Access doors shall be clearly marked on drawings. To the greatest extent possible, design systems so required access points do not occur in spaces intended for high design impact.

B. Domestic interior water piping shall be type "L" copper only.

C. Use only ADA approved lavatory and kitchen faucets only, no self-closing fixtures are permitted.

D. Use only poly propylene pipe, or low extractable CPVC (preferred), for de-ionized water piping. Joints may be either fused or mechanical.

E. All eyewash stations and emergency showers shall utilize tepid water per current ANSI/ISEA Z358.1 standard. Provide with mixing valve such that mater can be maintained at 70 degrees F. Include drain located in close proximity. Drain to be provided with electronic trap primer.

F. All Electric Water Coolers shall be equipped with water bottle fillers.

G. All valves less than 2-1/2 inch shall be ball valve type unless not appropriate for the application.

H. All Laboratory drain piping shall be acid resistant, regardless of the use of the laboratory.

I. All Laboratory service fixtures (air, gas, vacuum etc.) shall be ball valve type only.

J. Waterless Urinals are not permitted.

K. High Purity Water Systems shall be coordinated with Owner to determine current service provider.

1.2 PREFERRED PLUMBING FIXTURES AND EQUIPMENT MANUFACTURERS

A. Acid Waste Lines:

1. Enfield.
2. Orian.
3. Charlotte Pipe.
4. Spears Manufacturing.

B. Backflow Preventers:

1. Febco.
2. Watts.

3. Wilkens Zurn.

C. Valves:

1. Apollo.
2. Hammond.
3. Milwaukee.
4. Victaulic – no stamped lever style.
5. Watts.

D. High Purity Water Piping:

1. Enfield.
2. Orian.
3. Spears Manufacturing.

E. Domestic Hot Water heaters:

1. A. O. Smith.
2. Patterson Kelley.
3. Lochinvar.

F. Eyewash Stations/Emergency Showers (per ANSI.ISEA Z358.1):

1. Guardian.
2. Haws.

G. Faucets:

1. Kitchen Sinks:

a. American Standard.
b. Chicago.
c. Moen.

2. Lavatories:

a. American Standard.
b. Chicago.
c. Moen.
d. Sloan.
e. Zurn.

3. Service Sinks:

a. Chicago 445-897SRCX KCP with integral check valve to prevent crossover.

4. Laboratories:

a. Chicago.

H. Flushometers:

1. Zurn 6000 series.

I. Shower Mixing Valves:

1. Moen, Moentrol with integral stops.

J. Sinks, Lavatories, and Water Closets:

1. American Standard.
2. Zurn.

K. Urinals:

1. Zurn, 1 pint/flush units.

L. Pumps (Domestic Hot Water pumps shall be brass or bronze, preferably stainless steel):

1. Grundfos.

END OF SECTION