PART 1 – DESIGN DIRECTIVES

1.1 QUALITY ASSURANCE

A. Codes and Standards:
   2. ARI Standard 1010: "Drinking-Fountains and Self-Contained Mechanically-Refrigerated Drinking-Water Coolers."
   5. All drinking fountains shall comply with ANSI/NSF 61, Section 9.

1.2 DESIGN CRITERIA

A. The preferred manufacturer listed for china products is Eljer. Acceptable alternates, assuming they conform to all of the provisions of this specification, are American Standard and Kohler.

B. Where non-battery flushometers are used, the electrical transformer for the flushometers shall be dedicated to a given room. Do not use one transformer for multiple rooms (i.e. Men’s & Women’s).

1.3 DELIVERY, STORAGE, AND HANDLING

A. Store fixtures and trim in the manufacturer's original shipping containers. Do not stack containers or store in such a manner that may cause damage to the fixture on trim.

PART 2 – PRODUCTS

2.1 WATER CLOSET

A. Wall Hung, Flush Valve: Siphon jet action, 1 1/2 inch top spud, vitreous china, 1.6 gallon water saving flush valve and elongated, open front seat. Provide compatible chair carrier, mounting height is 15", 17" for ADA. Sloan flush valve for retrofit applications and for new installations.
   1. Eljer Signature
   2. Kohler

B. Floor Mounted, Flush Valve: Siphon jet action, vitreous china, bolt caps, 1 1/2" top spud, 1.6 gallon water saving flush valve, open front, solid plastic elongated seat. Sloan flush valve for retrofit applications and for new installations.
   1. Eljer Signature
   2. Kohler

C. Floor Mounted, Tank Type: Siphon jet action, close coupled tank, bolt caps and 1.6 gallon water saving trim, chrome plated angle stop, open front, solid plastic elongated seat.
1. Eljer Patriot

2.2 URINAL

A. Wall hung 3/4" top inlet spud, vitreous china, washout urinal, 1.0 gallon water saver flush valve, concealed chair carrier, mount top of rim 24” above floor. Sloan Royal flush valve for retrofit applications, and for new installations.
   1. Eljer
   2. Kohler

2.3 LAVATORY

A. Countertop: Vitreous china, 20" x 17" oval, self-rimming vitreous china, front overflow with faucet and waste assembly, supplies and adjustable "P" trap.
   1. Eljer
   2. Kohler

B. Wall Hung: Vitreous china, 20" x 18" oval, front overflow, soap depression, integral backsplash, concealed chair carrier, with faucet and waste assembly. Supply stops to be chrome plated.
   1. Eljer
   2. Kohler

C. Faucet: Single lever, ADA compliant faucet, chrome finish, cartridge type flow elements, and 1/2"-14 NPSM threaded male inlet shanks. Delta faucet #525MPU (with pop-up); #505 (less pop-up).
   1. Residential applications provide the #525MPU with standard 2.0 gpm flow aerator.
   2. Public applications provide the #505 with model #RP31704, 0.5 gpm spray outlet.

2.4 MOP SERVICE BASIN

A. Floor mount, molded stone, 24" x 24" x 10" high, white color, with drain body complete with service faucet, vacuum breaker, hose, hose bracket, and mop hanger. Fiat #MSB2424 with service faucet #830-AA, hose bracket assembly #832-AA, and mop hanger #889-CC. Provide 12" stainless steel wall guards, #MSG2424.

2.5 DRINKING FOUNTAIN

A. Electric Water Cooler: Wall hung, push bar on front and sides, Grey Beige color, mounting bracket, one piece backsplash and basin, polished to a satin finish, ADA compliant Elkay.

2.6 SINKS

A. Counter Top, Single Bowl (medium): 18 gauge, type 302 stainless steel, self rimming, undercoated, nominal 25" x 22" x 8” deep compartment, faucet with aerator, lever handles, and basket strainer. Elkay

B. Faucet: ADA compliant, single handle, chrome finish, washerless, cartridge type flow elements, 8" long spout, 1/2"-14 NPSM threaded male inlet shanks, and 2.0 gpm flow aerator.
   1. Applications with spray attachment: Delta #420.
   2. Applications without spray attachment: Delta #120.

C. Faucet: ADA compliant, two handle, chrome finish, washerless, cartridge type flow elements, 8” long spout, 1/2"-14 NPSM threaded male inlet shanks, and 2.0 gpm flow aerator.
1. Applications with spray attachment: Delta #2400.
2. Applications without spray attachment: Delta #2100.

2.7 FIXTURE SUPPORTS

A. Lavatory supports shall be adjustable cast iron, with thin concealed arms and sleeves, and complete with escutcheons and mounting fasteners when mounting to masonry or concrete walls. Zurn #Z-1253

B. Lavatory supports shall be cast iron supports, having tubular steel uprights with concealed arms and sleeves, mounted on adjustable headers with escutcheons, and complete with heavy cast iron short feet, alignment trusses, and mounting fasteners. Zurn #Z-1231

C. Water closet supports shall be adjustable, factory painted, cast iron face plate, support base, and appropriate type waste fitting having face plate gasket; zinc plated steel fixture studs and fasteners; coated and threaded adjustable wall coupling with neoprene closet outlet gasket; and chrome plated fixture cap nuts and fiber fixture washers. Provide an appropriate model to suit deep or shallow rough-in, siphon jet or blow-out water closet, and type of sanitary piping system to which it is connected. Zurn #Z1204 series.

D. Concealed arm supports for urinals shall have steel top and bottom plates with bolts to support fixture independently from the wall; adjustable sleeves, steel tubular uprights and alignment trusses, steel plates with adjustable holes, bolts, nuts, and chrome plated cap nuts and washers. Top supporting plates shall have cutouts when used with back inlet urinals.

2.8 FITTINGS, TRIM, AND ACCESSORIES

A. Toilet Seats: Elongated, solid white plastic, closed back/open front, less cover, and having stainless steel check hinge and replaceable bumpers.
   2. Church Seat Co.

B. Supplies and Stops shall be polished chrome plated, angle stop having 3/8" IPS inlet and 3/8" O.D. compression x 12±" long flexible tubing or braided hose outlet, and wall flange and escutcheon. Threaded connections only. Brass Craft #0R15C or equal.

C. Traps shall be 17 gauge minimum, cast brass, adjustable "P" trap with cleanout and waste to wall.

D. Provide chrome-plated sheet steel escutcheons with friction clips.

PART 3 – EXECUTION

3.1 EXAMINATION

A. Examine walls, floors, and cabinets for suitable conditions where fixtures are to be installed, do not proceed until unsatisfactory conditions have been corrected.

3.2 INSTALLATION

A. Install plumbing fixtures level and plumb, in accordance with fixture manufacturer's written instructions.

B. Fasten plumbing fixtures securely to supports or building structure. Secure supplies behind or within wall construction to provide rigid installation.
C. Install a stop valve in an accessible location in the water connection to each fixture.

D. Install escutcheons at each wall, floor, and ceiling penetration in exposed finished locations and within cabinets and millwork.

E. Seal fixtures to walls and floors using a mildew resistant, flexible sealant, color to match fixture color.

F. Where janitors sinks are located adjacent to sheetrock walls provide stainless steel splash plates.

3.3 FIELD QUALITY CONTROL

A. Test fixtures to demonstrate proper operation upon completion of installation and after units are water pressurized. Replace malfunctioning units, then retest.

B. Inspect each installed unit for damage. Replace damaged fixtures.

C. Replace or replace leaking or dripping faucets and stops.

3.4 PROTECTION

A. Provide protective covering for installed fixtures, water coolers, and trim.

B. Do not allow use of fixtures for temporary facilities.

END OF SECTION 15440