SECTION 22 42 00 – COMMERCIAL PLUMBING FIXTURES

PART 1: GENERAL

A. This Section provides design standards for plumbing fixtures and trim. Certification of compliance with specified ANSI, UL, and ASHRAE Standards will be required, as appropriate, for all plumbing fixtures and appurtenant devices. Also, specific fixture selection and design shall incorporate all requirements and standards of the Americans with Disabilities Act (ADA) and all State Standards as may apply.

B. The design guidelines contained herein include the requirements for plumbing fixtures at Texas State University. It is the intention of this document to provide a standard for plumbing fixtures at Texas State University that requests the highest level of quality and standardization possible; it is not intended to be a guide specification.

PART 2: PRODUCTS

2.01 Acceptable Standard Manufacturers:

A. FIXTURES:

1. Wall Hung Lavatory:

   a. Lavatory 20” x 18” vitreous china lavatory, with 14-1/2” x 10-1/4” rectangular basin, splash lip, front overflow, fabricated for concealed arm supports, and having two soap depressions. Drill lavatories for 4” center faucets. Provide concealed arm carriers, trap, and supplies and stops as specified in the Articles below.

   1). American Standard; U. S. Plumbing Products.

   2). Crane Co.


   4). Kohler Co.

   5). Universal-Rundle Corp.

   b. Lavatory Intragal to Solid Polymen Counter Top Surfaces are approved.

2. Water Closets:
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a. Public Buildings: Low Consumption, vitreous china, floor outlet, floor mounted, water saving, siphon jet elongated closet bowl, with 1-1/2” top spud; quiet flushing action, with self-draining jets and large passageway. Provide carriers, seat, and flush valve as specified in the Articles below.

(1) Non ADA Approved manufacturer-Kohler Co., model #K-4350 Elongated, white color.

(2) ADA Approved manufacturer-Kohler Co., model #K-4368, white color.

b. Private Dormitory Rooms & Private Campus Owned Houses: Tank type toilet.

(1) Approved manufacturer-Kohler Co., model K3422 elongated, white color.

3. Urinals:

a. Approved manufacturer-Kohler, model #K5016 ET (ADA complaint), and white color.

b. Provide required number of ADA urinals and locate at ADA mounting height.

c. Provide clean-outs at each urinal, minimum of 6” above the flood-level rim of the fixture with cover to chromed plated (cover to be chromed plated).

B. FAUCETS:

1. Public Buildings – ADA complaint, Self – closing type, 4” center only, chrome plated cast brass, cold water only is standard. Hot water must be approved by Texas State University-San Marcos.

   a. Approved cold water manufacturer – Chicago Faucet, model 857-665 PSHED.

   b. Approved hot water manufacturer – Chicago Faucet, model 802-V665 cp.

2. Private Dormitory Rooms – ADA complaint, manual operated, 4” center only, chrome plated brass cast, 4” spout with constant flow aerator, single-
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wing handles indexed “HOT” and “COLD” and 1¼” chrome plated pop-up waste.

a. Approved manufacturer – Delta, model 525 MPLI

3. Shower Faucet: ADA Complaint

a. Provide built in shut off stops, washerless, mixer type shower and tub valve with metal blade handle.

b. Valve shall open to cold water first and then through warm with metal blade handle.

c. Valve shall open to cold water first and then through warm (mix) to hot.

d. Faucet shall have all operating parts separately replaceable from outside the wall, rotating cylinder type operating mechanisms, equipped with replaceable nonmetallic seats contained in stainless steel lined sockets.

e. Valve shall be equipped with pressure balance spool and sleeve device of Type 302 stainless steel which will maintain a preset high temperature limit; check stop (with an adjustable stop to prevent the possibility of the valve being turned to full hot water).

f. Provide with hand held shower head with swivel fitting, 60” flexible stainless steel hose, in-line vacuum breaker, and 24” chrome plated shower head slide guide set at 42” and 66” above the shower unit floor.

(1) Approved manufacturer – Delta 1343 WS

C. FLUSH VALVES:

1. Water Closet Flush Valve: ADA complaint, auto flush quiet, exposed closet flush valve, chrome plated.

   Approved Manufacturer:
   Technical Concept Auto Flush

2. Urinal Flush Valve: Auto Flush chrome plated, ¾” I.P.S. screw driver operated combination angle check and stop valve with protective cap, adjustable tailpiece, vacuum breaker flush connection and spud coupling for ¾” top spud flanges.
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D. FIXTURE SUPPORTS:

1. Lavatory Supports (Hollow Tile or CMU Walls): adjustable cast iron, with thin concealed arms and sleeves, and complete with escutcheons and mounting fasteners.

2. Need to add a carrier for normal plumbing chase in walls.

E. FITTINGS, TRIM, AND ACCESSORIES:

1. Toilet Seats: elongated, solid white plastic closed back/open front, less cover, and having stainless steel check hinge and replaceable bumpers.


   b. Beneke Corp.

   c. Olsonite Corp.; Olsonite Seats.

2. P-Traps:

   a. Non ADA-cast brass, 1-1 ½” adjustable “P” trap, on all Lavatory and Electric Drinking Fountain, with cleanout and waste to wall, by Kohler, model K9000.

   b. ADA requirements – P-trap designed to provide knee clearance for wheelchairs, per ADA, by Kohler.


F. DRINKING FOUNTAIN:

1. Elkay, Model #EHFSA8L or #EZS8L, stainless steel housing.

PART 3: EXECUTION

3.01 Installation:

A. Install a stop valve in an accessible location in the water connection to each fixture.
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B. Install escutcheons at each wall, floor, and ceiling penetration in exposed finished locations and within cabinets and millwork.

C. Seal fixtures to walls and floors using silicone sealant. Match sealant color to fixture color.

3.02 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.

END OF SECTION 22 42 00