

SECTION 15440

PLUMBING FIXTURES, TRIM, AND SUPPORTS

PART 1 GENERAL

1.01 SUMMARY

A. Related Sections:

- 1. 10800 - Toilet Room Accessories
- 2. 11600 - Laboratory Equipment.
- 3. 15410 - Piping (Plumbing).
- 4. 15430 - Piping Specialties (Plumbing).

1.02 SUBMITTALS

A. Submit Shop Drawings for the following:

- 1. Fixtures: Catalog cuts with rough-in dimensions identified as designated in fixture schedule, riser diagrams, and as specified.

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NOTE TO SPECIFIER: Use the following designations at fixture schedule, riser diagrams, and as specified, as necessary, for selected fixtures:

- WC-1 Water closet*
- WC-2 Water closet, ADA accessible*
- UR-1 Urinal*
- UR-2 Urinal, ADA accessible*
- L-1 Lavatory, wall hung*
- L-2 Lavatory, counter top*
- L-3 Lavatory, ADA accessible*
- L-4 Lavatory with hot water*
- SH-1 Shower, individual, ADA accessible*
- SH-2 Shower, group, head only*
- SK-1 Sink, stainless steel*
- SK-2 Sink, enameled cast iron*
- ARSK-1 Acid resistant sink*
- EWC-1 Electric water cooler*
- EWC-2 Electric water cooler, Hi-Lo ADA accessible*
- PLSK-1 Plaster sink*
- FD-1 Floor drain at finished areas*
- FD-2 Floor drain at equipment rooms*
- FD-3 Floor drain at kitchens*
- FD-4 Floor drain at kitchen with funnel*

FS-1 Floor sink at kitchen

2. Faucets: Catalog cuts and templates for drilled openings.
3. Fixture Trim: Catalog cuts.
4. Carriers: Catalog cuts.

1.03 QUALITY ASSURANCE

- A. Certification: Submit a letter, signed jointly by the manufacturer of the product and the installer of the product, attesting that no lead is contained in any piece of equipment or in the piping connections that could contaminate water, drinks, or food by contact.
- B. Florida Department of Education, Office of Educational Facilities - State Requirements for Educational Facilities 1999 (SREF).

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Fixtures:
 1. American Standard.
 2. Acorn Engineering.
 3. Bradley.
 4. Fiat.
 5. Elkay.
 6. Kreolab.
 7. Kohler.
- B. Fittings:
 1. American Standard.
 2. Chicago Faucets.
 3. Fiat.
 4. Delaney.
 5. Elkay.
 6. Powers Process Controls.
 7. Symmons Industries.
 8. Sloan.
 9. T & S Brass.
 10. Zurn.
- C. Equipment:

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1. Guy Gray.
2. Haws.
3. Halsey Taylor.
4. Oasis.

2.02 FIXTURES

A. Water Closets:

1. Wall Hung Water Closet (WC -):
 - a. White vitreous china, top spud, siphon jet flush action, 1.6 gpf, elongated bowl.
 - 1) Afwall EL 1.6 - 2257.103 by American Standard.
 - 2) Kingston Lite K - 4330 by Kohler.
 - b. Flush Valve: Sloan Royal 111 or accepted equivalent by Delaney Flushboy, Sloan Regal, or Zurn.
 - c. Flush Valve for Remote Activation: Sloan Series 900 or accepted equivalent by Delaney Flushboy, Sloan Regal, or Zurn.
 - d. Seat: Open front less cover.
 - 1) 95 by Olsonite.
 - 2) Lustra K-4670-C by Kohler.
 - 3) 50ESS by Sperzel.
2. Wall Hung Water Closet, HC Accessible (for replacement at existing conditions with non ADA carrier) (WC -):
 - a. White vitreous china, top spud, siphon jet flush action, 1.6 gpf, and elongated bowl. Afwall ADA Retrofit EL 1.6 - 2294.011 by American Standard.
 - b. Flush Valve: Sloan Royal 111 or accepted equivalent by Delaney Flushboy, Sloan Regal, or Zurn.
 - c. Flush Valve for Remote Activation: Sloan Series 900 or accepted equivalent by Delaney Flushboy, Sloan Regal, or Zurn.
 - d. Seat: Open front less cover.
 - 1) 95 by Olsonite.
 - 2) 9500C by Church.
 - 3) 50ESS by Sperzel.
3. Floor Mounted Water Closet (for replacement at existing conditions only) (WC -):
 - a. White vitreous china, top spud, siphon jet flush

action, 1.6 gpf, and elongated bowl.

- 1) Madera EL 1.6 - 2234.015 by American Standard.
- 2) Wellcomme Lite K-4350 by Kohler.

- b. Bolt Caps: 481310-100 by American Standard or accepted equivalent.
- c. Flush Valve: Sloan Royal 111 or accepted equivalent by Delaney Flushboy, Sloan Regal, or Zurn.
- d. Flush Valve for Remote Activation: Sloan Series 900 or accepted equivalent by Delaney Flushboy, Sloan Regal, or Zurn.
- e. Seat: Open front less cover.

- 1) 95 by Olsonite.
- 2) Lustra K-4670-C by Kohler.
- 3) 50ESS by Sperzel.

- f. Seat, HC Accessible: 3" or 4-5/8" high seat lift, elongated, closed front, hollow core heavy duty plastic, vinyl coated offset mounting bracket by Bemis or accepted equivalent.

4. Floor Mounted Water Closet, HC Accessible (for replacement at existing conditions only) (WC -):

- a. White vitreous china, top spud, siphon jet flush action, 1.6 gpf, and elongated bowl.

- 1) Madera 17 inches high, EL 1.6/FV 10 inch rough - 3043.102 by American Standard.
- 2) Highcliff Lite K-4368 by Kohler.

- b. Bolt Caps: 481310-100 by American Standard or accepted equivalent.
- c. Flush Valve: Sloan Royal 111 or accepted equivalent by Delaney Flushboy, Sloan Regal, or Zurn.
- d. Flush Valve for Remote Activation: Sloan Series 900 or accepted equivalent by Delaney Flushboy, Sloan Regal, or Zurn.
- e. Seat: Open front less cover.

- 1) 95 by Olsonite.
- 2) Lustra K-4670-C by Kohler.
- 3) 50ESS by Sperzel.

B. Urinal (UR -):

1. Siphon Jet Flush Action: Wall hung, 1.0 gpf, vitreous china, 3/4" top inlet spud.

- a. Allbrook 1.0 6541.132 by American Standard.
 - b. Dexter K5016-T by Kohler.
 - 2. Flush Valve: Oscillating non hold open handle. 186-1 by Sloan Royal, or accepted equivalent by Sloan Regal, Delaney Flushboy, or Zurn.
- C. Service Sink (SS -):
- 1. Enameled cast iron, 22 inches x 18 inches, plain back, rim guard.
 - a. Lakewell 7692.023 by American Standard.
 - b. Bannon K-6718 by Kohler.
 - 2. Fitting: Exposed yoke, wall mounted, vacuum breaker, top brace, stops in shanks.
 - a. Heritage 8344.111 by American Standard.
 - b. Knoxford K-8904-RP by Kohler.
 - 3. "P" Trap: Strainer, outlet to wall.
 - a. 7798.176 by American Standard.
 - b. K-6673 by Kohler.
- D. Mop Receptor (MR -):
- 1. Molded resin, 24 inches x 24 inches x 10 inches, rim guards, center drain.
 - a. Model MSR-2424 by Florestone.
 - b. Model MSB-2424 by Fiat.
 - 2. Fitting: Exposed yoke, wall mounted, vacuum breaker, top brace, stops in shanks.
 - a. Heritage 8344.111 by American Standard.
 - b. Knoxford K-8904-RP by Kohler.
 - c. Model 830-AA by Fiat.
- E. Wash Sink (WS -):
- 1. Enameled cast iron, 72 inches x 18 inches, drilled back.
 - a. Carnegie 8536.000 by American Standard.
 - b. Brockway K-3204 by Kohler.

2. Fitting: Exposed yoke, wall mounted, vacuum breaker, stops in shanks.
 - a. Heritage 8341.075 by American Standard.
 - b. Knoxford K-8906 by Kohler.
3. Solids Interceptor: Gasketed cover, stainless steel screens. 61040 by Josam or accepted equivalent. Josam clay interceptor Model H-32-11 under sink.

F. Lavatories:

1. Wall Hung Lav (L -):
 - a. White enameled cast iron, wall mount, 20 inches x 18 inches, 3 holes, 4 inch centers, with lug holes for concealed carrier arms.
 - 1) Hudson K-2867 by Kohler.
 - 2) Regalyn 4869.038 by American Standard.
 - b. Cold Water Fitting: Single lavatory fitting, self closing metering, adjustable time cycle, push handle, vandal resistant aerator.
 - 1) 1340.000 by American Standard.
 - 2) 333-669 by Chicago Faucets.
 - 3) K-7504-C by Kohler.
 - c. Hot and Cold Water Fitting: 4 inch centers, 4 inch spout, 2-1/2" lever handles, 2 gpm flow maximum, vandal resistant aerator.
 - 1) 5502.140 by American Standard.
 - 2) 802A-369 by Chicago Faucets.
 - 3) K-7404-K/K-16010-4 by Kohler.
 - d. Supply Pipes: 3/8" rigid riser with loose key controls. By McGuire or accepted equivalent.
 - e. "P" Trap: Adjustable with tubing drain to wall, cleanout plug and wall escutcheon. By McGuire or accepted equivalent.
 - f. Grid drain: Perforated, chrome plated, 1-1/4" tailpiece. By McGuire or accepted equivalent.
 - g. Floor Mounted Carrier Arms: Josam 17100-M-628 or accepted equivalent.
2. Wall Hung HC Lav (L -):
 - a. Enameled cast iron, 20 inches x 18 inches, 3 holes,

- 4 inch centers, with lug holes for concealed carrier arms.
- 1) Hudson K-2867 by Kohler.
 - 2) Accepted equivalent.
- b. Cold Water Fitting, accessible: Single lavatory fitting, self closing metering, adjustable time cycle, push handle, vandal resistant aerator.
- 1) 1340.000 by American Standard.
 - 2) 333-669 by Chicago Faucets.
 - 3) K-7504-C by Kohler.
- c. Hot and Cold Water Fitting, accessible: 4 inch centers, 4 inch spout, 2-1/2" lever handles, 2 gpm flow maximum, vandal resistant aerator.
- 1) 5502.140 by American Standard.
 - 2) 802A-369 by Chicago Faucets.
 - 3) K-7404-K/K-16010-4 by Kohler.
- d. Hot Water Guard: White, Handi Lav-Guard Insulation Kit 102/105 by Truebro.
- e. Supply Pipe: 3/8" rigid riser with loose key control. By McGuire or accepted equivalent.
- f. "P" Trap: Adjustable offset with tubing drain to wall, cleanout plug and wall escutcheon. By McGuire or accepted equivalent.
- g. Grid drain: Perforated, chrome plated, 1-1/4" offset tailpiece. By McGuire or accepted equivalent.
- h. Floor Mounted Carrier Arms: Josam 17100-M-628 or accepted equivalent.
3. Countertop Mounted Lav/HC Lav (L -):
- a. White enameled cast iron, 19 inches x 16 inches, self rimming, 4 inch centers.
 - 1) Ledgelyn 3211.000 by American Standard.
 - 2) Farmington K-2904 by Kohler. - b. Cold Water Fitting: Single lavatory fitting, self closing metering, adjustable time cycle, push handle, vandal resistant aerator.
 - 1) 1340.000 by American Standard.
 - 2) 333-669 by Chicago Faucets.
 - 3) K-7504-C by Kohler.

- c. Hot and Cold Water Fitting: 4 inch centers, 4 inch spout, 2-1/2" lever handles, 2 gpm flow, vandal resistant aerator.
 - 1) 5502.140 by American Standard.
 - 2) 802A-369 by Chicago Faucets.
 - 3) K-7404-K/K-16010-4 by Kohler.
- d. Supply Pipe: 3/8" rigid riser with loose key control. By McGuire or accepted equivalent.
- e. "P" Trap: Adjustable with tubing drain to wall, cleanout plug and wall escutcheon. By McGuire or accepted equivalent.
- f. Hot Water Guard: White, Handi Lav-Guard Insulation Kit 102/105 by Truebro.
- g. Grid drain: Perforated, chrome plated, 1-1/4" tailpiece. By McGuire or accepted equivalent.

G. Single Compartment Stainless Steel Sink with Bubbler (Classroom Service Center):

NOTE TO SPECIFIER: Use the following sink for a forward accessibility approach. Coordinate counter heights with sink depths of 5 to 7 inches.

- 1. (SK -) 25 inches x 17 inches, () inches deep, 18 gage, Type 302 stainless steel, self-rimming, double ledge.

NOTE TO SPECIFIER: Use the following sink for SREF parallel accessibility approach and other program required locations.

- 2. (SK -) 25 inches x 17 inches, 7.5 inches deep, 18 gage, Type 302 stainless steel, self-rimming, double ledge.
 - a. DRKAD-2517 by Elkay.
 - b. Accepted equivalent.
- 3. Bubbler: With flexible guard and HC accessible push button valve.
 - a. LK-1141 by Elkay.
 - b. Accepted equivalent.
- 4. Fitting: Gooseneck faucet, vandal resistant aerator.

- a. 7100.251H by American Standard.
- b. LK-2085-13-L by Elkay.
- c. 350 by Chicago Faucets.

- 5. Tailpiece: Offset with grid strainer, chrome plated P-trap with swivel joint, chrome plated flexible supplies with loose key stops: McGuire or accepted equivalent.
- 6. Soap dispenser with stainless steel container, lavatory mounted, 4 inch spout, 5 pound operating pressure, 20 ounce container. B-8221 by Bobrick or accepted equivalent.

H. Double Compartment Stainless Steel Sink (SK -):

- 1. 33 inches x 22 inches, 8 inches deep, 18 gage, Type 302 stainless steel, self-rimming.
 - a. LR-3322 by Elkay.
 - b. Accepted equivalent.
- 2. Cold Water Fitting: Gooseneck faucet, single hole inlet, 8 inch swing spout, vandal resistant aerator, 2-1/2" lever handle,.
 - a. 350-GN8A-E12VP-369 by Chicago Faucets.
 - b. Accepted equivalent.
- 3. Hot and Cold Water Fitting: Gooseneck faucet, 8 inch centers, 8 inch spout, vandal resistant aerator, 2-1/2" lever handles.
 - a. 6275.000/0000.172V by American Standard.
 - b. 201-GN8A-E12VP-369 by Chicago Faucets or accepted equivalent.

I. Single Compartment Stainless Steel Sinks:

- 1. Type 302 stainless steel, 18 gage, self-rimming.
- 2. Sizes and model numbers by Elkay or accepted equivalent:

<u>Length x Width (inches)</u>	<u>Depth (inches)</u>	<u>Model#</u>
a. (SK -) 25 x 22	8.0	LR-2522
b. (SK -) 31 x 22	7.5	LR-3122.
c. (SK -) 17 x 22	10.0	DLR-1722-10
d. (SK -) 22 x 22	10.0	DLR-2222-10
e. (SK -) 25 x 22	10.0	DLR-2522-10
f. (SK -) 31 x 22	11.5	DLR-3122-12

3. Cold Water Fitting: Gooseneck faucet, single hole inlet, 5-3/8" spout, 2-1/2" lever handle, vandal resistant aerator.
 - a. 7100.271H by American Standard.
 - b. 350 by Chicago Faucets.
 - c. Bardney K-7895 by Kohler.
 4. Hot and Cold Water Fitting: Gooseneck faucet, single hole inlet, 5-3/8" spout, 2-1/2" lever handles, vandal resistant aerator.
 - a. 7190.000.242H by American Standard.
 - b. 50 by Chicago Faucets.
 - c. Blagdon K-7894 by Kohler.
 5. Hot and Cold Water Fitting at Clinic: Gooseneck faucet, 4 inch centers, 3-1/2" spout, 4 inch blade handles.
 - a. 7500.170VP by American Standard.
 - b. 895-317 by Chicago Faucets.
 6. Supply Pipes: Flexible risers and loose key controls. 2303.063 by American Standard.
 7. "P" Trap: Adjustable with tubing drain to wall, cleanout plug and wall escutcheon. 4419.030 by American Standard or accepted equivalent.
 8. Grid Drain: Perforated with 1-1/2" diameter tailpiece. LK18 by Elkay or accepted equivalent.
- J. Wash Fountain (WSHF -):
1. Resin and filler composition, 3 station unit with push button metering valve operation and soap dispensers. Terreon Wall-Hung Tri-Font by Bradley or accepted equivalent.
- K. Photography - Develop, Wash, View Sink (PH -):
1. Stainless steel, 75-1/2" long x 32" deep with built-in diffused viewing area, lighting, and 10 inch deep ABS plastic sink capable of holding three 14 inch x 18 inch trays. Model FDSV18 by NuArc with 115V, 60Hz, 8 amps, air-cooled refrigeration unit, temperature controls, and fittings.
- L. Photography - Plate Developing Sink (PH -):
1. Chemical resistant plastic, 33-1/2" wide x 30-1/2" deep with full width spray pipe, welded steel base, and

storage shelf. Model PS36 by NuArc.

K. Photo Processing Sink (PH -):

2. 75-1/2" x 32" x 10" deep. 24610E2S by Kreolab or accepted equivalent by Calumet or Pitman Photo.
3. Fittings by Kreolab or accepted equivalent:
 - a. KTB251 water temperature blender.
 - b. KF220S faucet.
 - c. KWFP water filter.
 - d. KFC110V8 faucet.
 - e. KSP1 combination standpipe and basket strainer.

M. Hose Reel (HR -):

1. 35 feet of retractable 3/8" I.D. hose, hose bumper with hose spring and push lock hose end, for concealed installations, backflow preventor, shut-off valve, VOC concealed 2 valve fitting, loose key check valve, volume control with coupling.
 - a. 536 with 548 stainless steel housing and main shaft and swivel, by Chicago Faucets or accepted equivalent.

N. Clinic Shower:

1. Thermostatic mixing valve with integral service stops and hand held shower head, 48 inch minimum wall bar, 5 foot long chrome plated hose.
 - a. 425-11-59 by Powers Process Controls.
 - b. 96-300-B48-X-L by Symmons Industries.

O. Utility Connection Box:

1. Recessed metal box with hot and cold water hose bibbs, vacuum breakers, and 2 inch diameter drain where indicated on drawings.
2. Model WB-200 by Guy Gray and Watts Model 2T "Duo Cloz" ball type valve or accepted equivalents.

P. Lab Equipment:

1. Connect sinks, fittings, gas turrets, and drain outlets associated with, but not limited to, the following as specified in Section 11600:
 - a. Rinse-away Sinks.

- b. Safety Centers.
- c. Student Centers.
- d. Fume hoods.
- e. Demo Centers.

- 2. Water Supplies: 3/8" chrome plated brass risers and loose key control.
- 3. Gas Supplies: 3/8" galvanized pipe, gas cock with loose key control, dirt leg and union.
- 4. P-traps: 1-1/2" acid resistant material same as piping used. Installation according to manufacturer's recommendations.

Q. Locker Room Showers Central Control:

- 1. Thermostatic type mixing valve to blend hot and cold water to desired temperature and compensate for both temperature and pressure changes in supply lines, bronze body with non-corrosive parts, integral check stops, tamperproof temperature control, polished chrome, minimum 85 degrees F. to 115 degrees F. range.
- 2. Valve shall be enclosed in stainless steel cabinet with all piping finished in polished chrome.
- 3. Provide outlet dial thermometer and control valve. Cabinet shall have top outlet and inlets.
- 4. Manufacturers:
 - a. Series 430 valve by Powers Process Controls.
 - b. "B" Series valve by Symmons Industries.

R. Locker Room Showers:

- 1. Wall Mounted Shower Heads.
 - a. Vandalproof with concealed mounting screws, adjustable spray pattern by user, 30 degree spray angle, brass construction, flow not to exceed 2.5 gpm.
 - b. Manufacturers:
 - 1) 4-295 Fre-Flo institutional head by Symmons.
 - 2) Accepted Equivalent.

S. Modular Shower Privacy Compartments:

- 1. Wall mounted, 16 gage stainless steel with No. 4 satin finish.
- 2. Provide 1106 white vinyl shower curtain, 1104-2 chrome plated brass double hook and 1102-1 hardwood seat.
- 3. Furnish one compartment without seat for location by

- A/E of a fold down seat for handicapped use.
4. Diana Series, Model 1110 by Acorn Engineering or accepted equivalent.

T. Hydrotherapy Baths:

1. 110 gallon mobile unit, Type 304 stainless steel, satin finish, 56 inches long x 24 inches wide x 25 inches deep, with whirlpool lift mechanism for 3 foot height adjustment.
2. Manufacturers:
 - a. Model WWS110M Sports Whirlpool with WWHL10 Hydro-lift Whirlpool Lift by Micro Bio-Medics, Inc.
 - b. Model SC-56 Whirlpool Bath by Whitehall Manufacturing, Hackensack, NJ.

U. Electric Water Coolers (EWC -):

1. Wall mounted cooler with 2-stream mound building stainless steel projector, self-closing valve with automatic stream regulator, push bars in front and on both sides, for handicapped and standard use. See Drawings for mounting elevations. Model HWBF8 by Haws or accepted equivalent by Halsey Taylor or Oasis.
2. Wall mounted drinking fountain for remote cooler with polished chrome plated bubbler, self-closing push button valve, vandal resistant bottom plate. Model 1107 by Haws or accepted equivalent by Halsey Taylor or Oasis.
3. No lead shall be allowed in the manufacture of any piece of equipment within water coolers nor in any piping joint or connection within the unit.

V. Interceptors:

1. Trap type, solids interceptor, bottom access, 1-1/2" slip joint, gasketed cover, removable stainless steel strainer basket, chrome plated. Series 61000 by Josam or accepted equivalent.
2. On floor type, solids interceptor, top access, 2 inch threaded connections, gasketed cover, coated cast iron, galvanized steel basket with stainless steel screens. Series 61040 by Josam or accepted equivalent.
3. Acid dilution interceptor, one gallon capacity, 1-1/2" inlets, 2 inch outlet, clean container. Model W611 by Enfield or accepted equivalent.

W. Plaster Interceptors:

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1. Low Volume: Z 1180 by Zurn or accepted equivalent.
 2. High Volume: Z 1181 by Zurn or accepted equivalent.
- X. Floor Drain Reseal: F 72A1 by Sloan or accepted equivalent.
- Y. Plumbing Fittings for Kitchen Equipment:
1. Cook's Table:
 - a. Deck faucet with 6 inch swing nozzle, 8 inch centers, removable seats, chrome plated, lever handles. B-1120 by T & S Brass or approved equivalent.
 - b. Quick opening drain with perforated grid strainer and lever handle, LK24RT by Elkay or accepted equivalent.
 - c. Angle supplies with flexible riser and loose key, LK-1005 by Elkay or accepted equivalent.
 - d. Chrome plated P-Traps.
 2. Baker's Table:
 - a. Same as for Cook's Table.
 3. Vegetable/Salad Sink (2 compartment sink):
 - a. Faucet for splashback mounting with 12 inch swing nozzle, 8 inch centers, removable seats, chrome plated, lever handles. B-1128 by T & S Brass or accepted equivalent.
 - b. Two quick opening drain valves with overflow openings. LK 87RT by Elkay or accepted equivalent.
 - c. Angle supplies with flexible riser and loose key. LK-1005 by Elkay or accepted equivalent.
 - d. Chrome plated P-Traps.
 4. Pot Wash Sink (4 compartments).
 - a. Two faucets and three quick opening valves: Same as specified for vegetable/salad sink.
 - b. Grid strainer with tailpiece for skimmer compartment. LK-8 by Elkay or accepted equivalent.
 - c. Angle supplies with flexible riser and loose key, LK-1005 by Elkay or accepted equivalent.
 - d. Chrome plated P-Traps.
 5. Pot Wash Sink (3 compartments):
 - a. Two faucets and three quick opening valves: Same as specified for vegetable/salad sink.

- b. Grid strainer with tailpiece for skimmer compartment. LK-8 by Elkay or accepted equivalent.
- c. Angle supplies with flexible riser and loose key. LK-1005 by Elkay or accepted equivalent.
- d. Chrome plated P-Traps.

6. Kitchen Hand Sink:

a. Stainless steel construction with:

- 1) Deck or splash mounted gooseneck, electric eye/sensor operation, and low voltage adaptor.
- 2) Basket drain, 1-1/2" tailpiece.
- 3) Angle supplies with flexible riser and loose key, LK-1005 by Elkay or accepted equivalent.
- 4) Chrome plated P-trap.

b. Manufacturers:

- 1) Advance Tabco: Model 7-PS-51.
- 2) Aero Manufacturing: Model HSFE.
- 3) Eagle Foodservice Equipment by Metal Masters: Model HSA-10-FE.

2.03 CARRIERS

A. All carriers shall be fully bolted to floor and installed as recommended by manufacturer.

1. Lavatory/Lavatory HC:

- a. Rectangular structural steel uprights with integral welded heavy steel foot, cast iron concealed arms. Model 17100 by Josam or accepted equivalent.

2. Urinal:

- a. Rectangular structural steel uprights with integral welded steel foot, hanger bracket, lower bearing plate. Model 17810 by Josam or accepted equivalent.

3. Water Closet:

- a. Josam 12000 Series Chase-Saver II, 4 inch pipe size, with pylon feet, adjustable, provided with vandal proof trim, supply pipe support and adjustable chase extensions or accepted equivalent.

PART 3 EXECUTION

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3.01 INSPECTION

- A. Do not proceed with the work of this section until conditions detrimental to the proper and timely completion of the work have been corrected.

3.02 EQUIPMENT AND FIXTURE CONNECTIONS

- A. Provide necessary material and labor to connect fixtures and equipment having plumbing connections including fixtures and equipment specified and furnished in other sections.
- B. Supply Pipe Cut-off Valves:
 - 1. Equip supply pipes to each item of equipment or fixture (except faucets furnished with an integral stop) with a cutoff valve to enable isolation of the item of equipment or fixture for repair and maintenance without interfering with operation of other items of equipment or fixtures.
- C. Supply Pipe Support: Anchor supply piping to all items of equipment or fixtures to prevent movement.
- D. Templates: Furnish templates and rough opening dimensions to fabricators of countertops and case work for location and sizes of openings for faucets and sink.

END OF SECTION