SECTION 224300 - HEALTHCARE PLUMBING FIXTURES (Patient Care Areas)
All other areas refer to 22400- Plumbing Fixtures

1.1 QUALITY ASSURANCE

A. Regulatory Requirements: IPC Plumbing Code of New York State
B. Quality Standard: NSF 61 for fixture materials in contact with potable water.
C. Quality Standard for Electrical Components, Devices, and Accessories: NFPA 70, Article 100.

1.2 FAUCETS

A. Approved Manufacturer’s for Lavatory Faucets:
   1. Chicago Faucets
   2. Symmons Faucets
   3. Speakman Faucets
   4. T&S Brass Faucets
   5. Bladley Faucets
   6. American Standards

B. Lavatory Faucets:
   1. Faucet for lavatory-type medical plumbing fixture.
      a. Maximum Flow Rate: 2.2 gpm
      b. Body Material: Solid brass
      c. Finish: Polished chrome plate
      d. Type: Single-control mixing, two-handle mixing
      e. Tempering System: Not required
      f. Mounting: Deck; exposed, Deck; concealed
      g. Handle(s): Single-lever, Wrist blade, 4 inches
      h. Spout: Rigid, Swing, Rigid gooseneck, Swivel gooseneck
      i. Spout Outlet: Laminar flow
      j. Operation: Noncompression, manual
      k. Drain: Grid Strainer

C. Approved Manufacturer’s for Shower Faucets:
   1. Powers Hydro- Guard T/P
   2. Sloan Co.
   3. Symmons Co.
   4. T&S Brass Co.
   5. Bradley Co.

D. Shower Faucets:
   1. Faucet for shower-type medical plumbing fixture.
a. Maximum Flow Rate: 2.5 gpm
b. Body Material: Solid brass
c. Finish: Polished chrome plate
d. Type: Thermostatis, Pressure balance, Thermostatic and pressure balance
e. Mounting: Concealed
f. Handle(s): Single-lever, touch pad
g. Diverter Valve: Integral with mixing valve
h. Backflow Protection Device for Hand-Held Shower: Required
i. Operation: Non-compression, manual, Automatic, Hard-wired electric sensor
j. Anti-scald Device: Integral with mixing valve
k. Shower Head Material: Brass with chrome plated finish
l. Head Type: Ball joint, without ball joint, Hand held, slide-bar mounted
m. Integral Volume Control: Required
n. Shower-Arm, Flow- Control Fitting: 1.5 gpm

E. Approved Manufacturer’s for Sink Faucets:

1. Chicago Faucets
2. Symmons Faucets
3. Speakman Faucets
4. T&S Brass Faucets
5. Bladley Faucets
6. American Standard

F. Sink Faucets:

1. Faucet for sink-type medical plumbing fixture.

a. Maximum Flow Rate: 2.5 gpm
b. Body Material: Solid brass
c. Finish: Polished chrome plate or Anti-Bacterial plating
d. Type: Sink faucet, Clinical-sink faucet, vacuum breaker, hose-thread outlet, and pail hook
e. Tempering Device: Not required
f. Mixing Valve: Single control, Two-lever handle
g. Backflow Protection Device for Hose Outlet: Required
h. Mounting: Deck, exposed; Deck, concealed; Back/wall, exposed; Back/wall, concealed
i. Handles: Lever, Wrist blade, 4 inches
j. Spout: Rigid, solid; Swing tubular; Rigid, gooseneck, solid; Swivel, gooseneck solid; Brass with wall brace
k. Spout Outlet: Swivel aerator/spray; Spray; Laminor flow; Hose thread; Plain end
l. Vacuum Breaker: Required
m. Operation: Noncompression, manual; Automatic, hard-wired electric sensor

1.3 LAMINAR-FLOW FAUCET-SPOUT OUTLETS

A. Laminar-Flow Faucet-Spout Outlets:
1. Chrome-plated-brass faucet-spout outlet, for medical plumbing fixture, that produces non-aerating laminar stream.

1.4 FLUSHOMETERS

A. Approved Manufacturer’s for Flushometers
   1. Sloan Royal 11
   2. Sloan Optima
   3. Delay Flushboy

B. Flushometers:
   1. Flushometer for clinical-sink and water-closet-type medical plumbing fixture.
      a. Internal Design: Diaphragm operation.
      b. Style: Exposed
      c. Trip Mechanism: Oscillating, lever-handle actuator, Mechanical, push-button actuator with stainless-steel access plate; Hard-wired, electric-sensor actuator
      d. Consumption: 1.6 gal/flush
      e. Integral Bedpan Washer: Sloan modal #SA100 Factory fabricated attached to tailpiece and with spray head.

1.5 TOILET SEATS

A. Approved Manufacturer’s for Toilet Seats:
   1. Church Co.
   2. Bemis MFG Co.

B. Toilet Seats:
   1. Plastic toilet seat for water-closet-type medical plumbing fixture.
      a. Material: Molded, solid plastic with antimicrobial agent
      b. Configuration: Open front without cover
      c. Size: Elongated
      d. Class: Heavy-duty commercial.
      e. Hinge Type: SC, self-sustaining check
      f. Color: White

1.6 PROTECTIVE SHIELDING GUARDS

A. Protective Shielding Pipe Covers:
   1. Manufactured plastic wraps for covering medical plumbing fixture hot- and cold-water supplies.

B. Protective Shielding Piping Enclosures:
1. Manufactured plastic enclosure for covering medical plumbing fixture hot- and cold-water supplies and trap and drain piping.

1.7 FIXTURE SUPPORTS

A. Water-Closet Supports:
   1. Combination carrier designed for accessible, standard mounting height of wall-mounting, water-closet-type medical plumbing fixture.

B. Lavatory Supports:
   1. Type II, lavatory carrier with concealed arms and tie rod for wall-mounting, lavatory-type medical planning fixture.

C. Sink Supports:
   1. Type I, sink carrier with exposed arms and tie rods; Type II sink carrier with hanger plate, bearing studs, and tie rod for sink type medical plumbing fixture.

1.8 BEDPAN WASHERS

A. Approved Manufacturer for Bedpan washers:
   1. Sloan SA-100

B. Bedpan Washer:
   1. Flushometer valve operation.

1.9 WATER CLOSETS

A. Wall-Mounting Water Closets:
   1. Accessible, wall and wall-mounting, back-outlet, vitreous-china medical plumbing fixture designed for bedpan washing and flushometer valve operation.
      a. Style: Flushometer valve.
         1) Bowl Type: Elongated with siphon-jet design and bedpan lugs.
         2) Design Consumption: 1.6 gal/flush.
      b. Flushometer: Sloan Royal 11, Sloan Optima, Delay Flushboy
      c. Toilet Seat: Church Co., Bemis MFC. Co.
      d. Fixture Support: Water-closet support combination carrier.
      e. Bedpan Washer: Sloan SA-100

B. Floor-Mounting Water Closets:
   1. Accessible, floor and floor-mounting, floor-outlet, vitreous-china medical plumbing fixture designed for bedpan washing and flush meter valve operation.
a. Style: Flush meter valve.
   1) Bowl Type: Elongated with siphon-jet design and bedpan lugs or slots. Include bolt caps matching fixture.
   2) Height: Accessible
   3) Design Consumption: 1.6 gal./flush.
   4) Color: White.

b. Flushometer Approved Manufacturer’s
   1) Sloan Royal 11
   2) Sloan Optima
   3) Delay Flushboy

c. Toilet Seat: Bemis #1655C

d. Bedpan Washer: Sloan SA-100

1.10 LAVATORIES
A. Wall-Mounting Lavatories Approved Manufacturer’s
   1. American Standard (Lucerne)

   2. Accessible, wall or wall-mounting, vitreous-china medical plumbing fixture.
      a. Type: Self-draining deck with contoured back and side splash shields
      b. Size: 20 by 18 inches rectangular.
      c. Faucet Hole Location: Top
      d. Faucet: Lavatory Open grid strainer
      e. Protective Shielding Guard(s):

B. Counter-Mounting Lavatories:
   1. Accessible, Counter-mounting, vitreous-china, medical plumbing fixture.
      a. Type: Self-rimming.
      b. Rectangular Lavatory Size: 20 by 18 inches.
      c. Oval Lavatory Size: 19 by 16 inches.
      d. Round Lavatory Size: 19 inches in diameter.
      e. Faucet Hole Location: Top.

1.11 INDIVIDUAL SHOWERS
A. Individual Showers:
1. Accessible, FRP, PMMA shower enclosure medical plumbing fixture with slip-resistant bathing surface complying with ASTM F 462. Comply with ADA requirements for use by people with disabilities.
   a. Size: 60 by 36 inches
   b. Faucet: Shower: Approved Manufacturer’s:
      1) Powers Hydro Guard T/P
      2) Speakman Anti-Scald.
   c. Accessories: If not furnished as integral components of specified fixture.
      1) Grab bar(s).
      2) Heavy-duty shower-curtain rod.
      3) Antibacterial shower curtain.
      4) Shower-curtain hooks.
      5) Folding seat.

1.12 PATIENTS' COMBINATION TOILETS

A. Swing-Away, Patients' Combination Toilets:
   1. Factory-fabricated, combination water closet and lavatory medical plumbing fixture.
      a. Cabinet: Fixed installation with storage space and toilet paper holder.
         1) Material: Stainless steel, plastic laminate, or fiberglass with laminated-wood or plastic top surface.
      b. Water Closet: Swivel, floor-mounting, back outlet, flush meter valve design.
         1) Material: Stainless steel.
         2) Orientation: left and/or right hand.
         3) Toilet Seat: White, solid plastic.
         4) Flush meter: Concealed flush meter valve.
      c. Lavatory: Counter mounting.
         1) Material: Stainless steel
         2) Faucet: Gooseneck type with wrist-blade handles
      d. Bedpan Washer: On flush meter valve tailpiece or separate attachment affixed to unit.

1.13 CLINICAL SINKS

A. Wall-Mounting Clinical Sinks:
   1. Wall-mounting, back-outlet, vitreous-china, flushing-rim, service-sink-type medical plumbing fixture.
a. Size: Approximately 25 by 20 inches.
b. Rim Guard: Stainless steel on front and also on sides if flat rim.
c. Faucet: Sink: Approved Manufacturer’s
   1) Chicago
   2) American Standard
   3) Speakman
d. Flushometer: Approved Manufacturer’s
   1) Sloan Royal 11
   2) Delay Flushboy
e. Bedpan Washer: Sloan SA-100
f. Fixture Support: Sink- Zurn m/n Z1218 service sink support system

1.14 PLASTER SINKS

A. Plaster Sinks

1. Wall-mounting, vitreous-china medical plumbing fixture.
   a. Size: 24 by 22 inches with back or ledge faucet holes
   b. Faucet: Sink Approved Manufacturer’s
       1) Chicago
       2) American Standards
       3) Speakman
c. Plaster Interceptor: Crescent Corp. m/n C350100 – replacement liners #C350225 steel body and removable cover with acid-resistant-enameled interior lining and outside coating.
   d. Fixture Support: Single concealed arm carrier with non-slip locking devices

1.15 SURGEONS' SCRUB SINKS

A. Stainless-Steel Surgeons' Scrub Sinks:

1. Wall-mounting, sink-type medical plumbing fixture.
   a. Size: Per design spec with back with 1 faucet hole.
   b. Faucet: Chrome-plated-brass, gooseneck type matching fixture.
       1) Approved Manufacturer’s
           a) T&S Brass Works
           b) Chicago Co.
           c) Bradley Co.
   d. Fixture Support: Sink – review per design

B. Vitreous-China Surgeons' Scrub Sinks:

1. Wall-mounting, sink-type medical plumbing fixture.
   a. Size: 30 by 22 inches with back or ledge with 1 faucet hole.
b. Faucet: Chrome-plated-brass, gooseneck-type matching fixture.
   1) Approved Manufacturer’s
      a) T&S Brass Works
      b) Chicago Co.
      c) Bradley Co.
c. Operation: Foot-pedal control.
d. Fixture Support: Sink- single concealed arm carrier with non-slip locking devices

1.16 SURGEONS' INSTRUMENT SINKS

A. Surgeons' Instrument Sinks: autoclave pre-wash sink
   1. Wall-mounting, stainless-steel, sink-type medical plumbing fixture. Include instrument
      tray on each side.
      a. Size: 28 by 20 inches (710 by 510 mm) with 8” center set holes for deck-
         mounting faucet.
      b. Faucet: Chrome-plated-brass, gooseneck type matching fixture with wrist blade-
         knee and foot pedal control for mixing hot and cold water supplies.

B. Bathing Units:
   1. Plastic-tub, institutional side-entry whirlpool bath fixture with integral controls.
      a. Tub Size: 60 by 30 inches (1525 by 765 mm).
      b. Controls: Vacuum breakers on supplies, thermostatic mixing valve, tub-fill spout,
         and hand-held shower head.
      c. Unit Electrical Characteristics:
         1) Volts: 120V.
         2) Phase(s): One.

C. Bathing Units:
   1. Plastic-tub, institutional side, transfer-lift entry, adjustable, fixed-height bath fixture with
      integral controls.
      a. Tub Size: 60 by 30 inches (1525 by 765 mm)
      b. Controls: Vacuum breakers on supplies, thermostatic mixing valve, tub fill spout,
         and hand-held shower head.
      c. Lift System:
      d. Unit Electrical Characteristics:
         1) Volts: 120V.
         2) Phase(s): One

D. Bathing Units:
   1. Plastic-tub, institutional front-entry shower fixture with integral controls.
a. Cabinet Size: 35 by 41 inches (889 by 1041 mm).
b. Controls: Vacuum breakers on supplies, thermostatic mixing valve, tub fill spout, and hand-held shower head.
c. Unit Electrical Characteristics:
   1) Volts: 120V.
   2) Phase(s): One.

1.17 HYDROTHERAPY WHIRLPOOLS

A. Podiatry Whirlpools:
   1. Stationary, stainless-steel tank for feet and ankles.
      b. Thermometer: Control panel or tank mounted.
      c. One electric turbine ejector.
      d. Unit Electrical Characteristics:
         1) Volts: 120, 240, 277, 480 V.
         2) Phase(s): One, Three

B. Upper-Extremity Whirlpools:
   1. Stationary, pedestal-mounted, stainless-steel tank for arms, hands, and elbows.
      b. Thermometer: Control panel or tank mounted.
      c. One electric turbine ejector.
      d. Unit Electrical Characteristics:
         1) Volts: 120, 240, 277, 480 V.
         2) Phase(s): One, Three

C. High-Tank Body Whirlpools:
   1. Stationary, stainless-steel tank for legs, hip, and back.
      b. Thermometer: Control panel or tank mounted.
      c. One electric turbine ejector.
      d. Unit Electrical Characteristics:
         1) Volts: 120, 240, 277, 480 V
         2) Phase(s): One, Three

D. Low-Tank Body Whirlpools:
   1. Stationary, extended-length stainless-steel tank for legs, hip, and lower back.
b. Thermometer: Control panel or tank mounted.
c. One electric turbine ejector.
d. Unit Electrical Characteristics:
   1) Volts: 120, 240, 277, 480 V
   2) Phase(s): One, Three

E. Small, Hubbard Immersion Tanks:
   1. Stationary, butterfly-shaped tank, for full-body massage.
      a. Tank Dimensions: 93 by 64 by 22 inches (2362 by 1626 by 560 mm).
      b. Overall Height: 34 to 38 inches (864 to 965 mm).
      c. Water Capacity: 268 gal. (1014 L)
      d. Material: Stainless steel.
      e. Thermometer: Control panel or tank rim mounted.
      f. Electric Turbine Ejectors: Two; one rail mounted on each side.
      g. Thermostatic, mixing-valve assembly.
      h. Unit Electrical Characteristics:
         1) Volts: 120, 240, 277, 480 V
         2) Phase(s): One, Three
      i. Hose and hand-held shower.
      j. Wash-out-hose assembly.
      k. Stretcher lift.
      l. Overhead electric hoist.

F. Medium, Hubbard Immersion Tanks:
   1. Stationary, butterfly-shaped tank, for full-body massage.
      a. Tank Dimensions: 100 by 73 by 24 inches (2540 by 1854 by 610 mm).
      b. Overall Height: 34 to 38 inches (864 to 965 mm)
      c. Water Capacity: 377 gal. (1468 L)
      d. Material: Stainless steel.
      e. Thermometer: Control panel or tank rim mounted.
      f. Electric Turbine Ejector: One, panel mounted.
      g. Thermostatic, mixing-valve assembly.
      h. Unit Electrical Characteristics:
         1) Volts: 120, 240, 277, 480 V
         2) Phase(s): One, Three
      i. Hose and hand-held shower.
      j. Wash-out-hose assembly.
      k. Stretcher lift.
      l. Overhead electric hoist.

G. Large, Hubbard Immersion Tanks:
1. Stationary, butterfly-shaped tank, for full-body massage.
   a. Tank Dimensions: 106 by 77 by 22 inches (2692 by 1956 by 560 mm).
   b. Overall Height: 34 inches (864 mm)
   c. Water Capacity: 425 gal. (1609 L)
   d. Material: Stainless steel.
   e. Thermometer: Control panel or tank rim mounted.
   f. Electric Turbine Ejectors: Two; one rail mounted on each side.
   g. Thermostatic, mixing-valve assembly.
   h. Unit Electrical Characteristics:
      1) Volts: 120, 240, 277, 480 V
      2) Phase(s): One, Three
   i. Hose and hand-held shower.
   j. Wash-out-hose assembly.
   k. Stretcher lift.
   l. Overhead electric hoist.

H. Full-Body Immersion Tanks:

1. Stationary, rectangular tank, for full-body massage.
   a. Tank Dimensions: 90 by 32 by 19 inches (2286 by 813 by 483 mm), 95 by 41 by 22 inches (2413 by 1041 by 560 mm).
   b. Overall Height: 32 or 34 inches (813 or 860 mm).
   d. Material: Stainless steel.
   e. Thermometer: Control panel or tank rim mounted.
   f. Electric Turbine Ejector: One, tank mounted at end, on rail, and on side.
   g. Thermostatic, mixing-valve assembly.
   h. Unit Electrical Characteristics:
      1) Volts: 120, 240, 277, 480 V.
      2) Phase(s): One, Three
   i. Hose and hand-held shower.
   j. Wash-out-hose assembly.
   k. Stretcher lift.
   l. Overhead electric hoist.

1.18 OUTLET BOXES

A. Dialysis Equipment Outlet Boxes:

1. Recessed-mounting outlet box with water supply and drain connections.
   a. Box and Faceplate: Stainless steel.
   b. Supply Fitting(s): 1 NPS 1/2 (DN 15) PVC ball valve(s) and adapter with male hose-thread outlet.
1.19 MORGUE EQUIPMENT

A. Autopsy Tables:

1. Pedestal stainless-steel table with sink; designed for downdraft ventilation.

   b. Overall Size: Approximately 88 by 30 inches (2250 by 760 mm) with deck faucet holes.
   c. Faucet: Deck mounted with wrist- or elbow-blade handles.
   d. Aspirator: Deck mounted.
   e. Rinse Assembly: Deck-mounted faucet with hose.
   f. Disposer: Required.
   g. Receptacle: Duplex, hospital grade with ground-fault interruption.
   h. Unit Electrical Characteristics:

      1) Volts: 120, 240, 277, 480 V.
      2) Phase(s): One, Three.

B. Dissecting Sinks:

1. Wall-mounting sink with backsplash.

   b. Overall Size: 84 by 28 inches (2134 by 711 mm) with back faucet holes.
   c. Sink Size: Approximately 30 inches (763 mm) wide.
   d. Equipment drawer.
   e. Faucet: Back mounted with wrist- or elbow-blade handles.
   f. Aspirator: Back mounted.
   g. Rinse Assembly: One back-mounted faucet with hose.
   h. Disposer: Required
   i. Back-mounted, hand-held-type eye wash.
   j. Unit Electrical Characteristics:

      1) Volts: 120, 240, 277, 480 V.
      2) Phase(s): One, Three.

END OF SECTION 224300