

# Element D | Services

Plumbing

## D2010 Plumbing Fixtures

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### PART 1 - GENERAL

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#### 1.01 OVERVIEW

- A. This section addresses plumbing fixtures, trim and associated accessories. Refer to MD Anderson Cancer Center Master Construction Specification Sections for additional requirements.

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### PART 2 - DESIGN CRITERIA

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#### 2.01 GENERAL

- A. Final selection of plumbing fixtures and trim shall be determined by close coordination with MD Anderson Cancer Center planners, user groups and the Owner's Project Manager to determine functionality requirements for selection of appropriate fixture and trim types (including bariatric needs). Requirements may vary from facility to facility and even from department to department.
- B. A/E shall modify MD Anderson Cancer Center Master Construction Specifications as required to ensure conformity between Drawing Schedules and Project Specifications.
- C. Quantities of plumbing fixtures shall be determined by compliance with the International Building Code requirements for minimum number of facilities. Consult with MDACC users to determine additional fixtures required for particular department needs. Provide minimum quantity and type of plumbing fixtures within patient care areas as required by the Facility Guidelines Institute (FGI) and Title 25, Texas Administrative Code, Chapter 133, Hospital Licensing.
- D. Coordinate location of all plumbing fixtures with structural members, windows, lower-floor ceilings or other building components that may interfere with the installation of code compliant piping. This task shall be accomplished during the schematic design phase of the Project.
- E. Coordinate location of plumbing fixtures on upper levels with spaces below to avoid areas where water leakage would cause major property loss or contamination, including but not limited to computer data centers, MRI rooms, food preparation, food storage, food serving, critical patient care areas, etc. This task shall be accomplished during the schematic design phase of the Project. Refer to Design Guideline Element Z2050 for additional related requirements.
- F. Do not locate plumbing fixtures above electrical or telecommunications rooms.
- G. Fixtures shall be mounted at heights recommended by the manufacturer, as required by accessibility standards, and as required by MD Anderson Cancer Center Users.

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- H. Coordinate sink/lavatory types and sizes with other toilet accessories and casework details to insure proper installation of fixtures.

### PART 3 - SPECIAL CONTRACT DOCUMENT REQUIREMENTS

#### 3.01 GENERAL

- A. All plumbing fixtures and trim shall be specified indicating manufacturer's model numbers and sufficient additional information to allow cross referencing to other acceptable manufacturer's products.
- B. Include a fixture rough in schedule on the Contract Drawings identifying minimum service pipe sizes required by code and as recommended by the manufacturer for all fixtures and trim to be installed within the Project. A brief description of the plumbing fixture shall be included in the schedule; coordinated with the specifications.
- C. Elevations of the plumbing fixtures shall be indicated on the Architectural Contract Drawings identifying required mounting heights for all fixtures and trim to be installed within the Project.
- D. Shower floor liner installation shall be detailed on the Architectural Contract Drawings.

### PART 4 - PRODUCTS

#### 4.01 GENERAL

- A. Refer to Owner's Master Construction Specifications. These are available on the Owner's Design Guidelines website: <http://www2.mdanderson.org/depts/cpm/standards/specs.html>
- B. Fixtures and trim specified for renovation of existing facilities shall match existing installation where possible.
- C. Fixtures, trim and accessories shall be new institutional/commercial grade quality.
- D. Fixtures, trim and accessories of any one type shall be by the same manufacturer.
- E. Vitreous china plumbing fixtures shall be white in color with chrome-plated fixture trim and accessories.
- F. Wall mounted fixtures shall be supported with commercial carriers, bolted to the floor. Fixture weight shall not be transmitted to walls or partitions.
- G. Fixtures exposed to the public shall be provided with vandal resistant trim.

#### 4.02 FIXTURES AND TRIM

- A. All electronic flush valve sensors shall be provided with a manual override button except when located within specimen collecting toilet rooms.

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- B. All lavatories and sinks within patient care areas shall be provided with a spout having outlet a minimum of five inches above the flood level rim of the fixture. EXCEPTION: All lavatory faucets within public toilets shall have low-profile (non-gooseneck) spouts. Gooseneck spout outlets shall terminate 5 inches minimum and 6-1/2 inches maximum above top of rim of lavatory sink. Horizontal dimension from spout inlet to spout outlet shall be a minimum 5-1/2 inches.
- C. All sinks primarily used for hand washing shall be provided with grid strainer drain. Drain stoppers or crumb-cup strainers will not be acceptable.
- D. Lavatories located in public and staff washrooms shall be provide with electronic sensor activated faucets.
- E. Lavatories faucets located in specimen collecting toilet rooms shall be provided with AC powered electronic sensors. The electrical power shall be controlled by a wall switch located outside of the toilet room to allow nursing staff to prevent use of faucet during collection of specimen. Coordinate with Owner's staff for exact location of wall switch.
- F. Sinks and lavatories primarily used for hand washing in nurse stations, examination and treatment rooms shall be provided with electronic sensor activated faucets.
- G. Sinks and lavatories used for procedural hand/arm scrubbing shall be trimmed with foot, knee or electronic sensor controls. Coordinate specific type with project requirements.
- H. Each lab room shall be provided with at least one hand washing sink having electronic sensor activated faucet and hot and cold water.
- I. Sinks located in BL-2 or higher tissue culture rooms shall be provided with foot pedal or electronic sensor activated faucets.
- J. Faucets used by medical and nursing staff for cleanup or general use shall be trimmed with valves that can be manually operated without the use of hands. Wrist blade handles are acceptable for this purpose and shall be four inches in length, (including, nurse lounge, nourishment station, soiled utility, clean utility, film processing, etc.).
- K. Lavatories located in patient room toilets shall be provided with manually operated four-inch wrist blade handles and gooseneck spouts.
- L. Clinical sinks used for bedpan cleansing shall be provided with manually operated faucets having six-inch elbow blade handles and manually operated flush valves having integral bedpan washer.
- M. Lab sinks used for general research shall be provided with manually operated faucets served with hot and cold water.
- N. Housekeeping mop sink faucets shall not be provided with mixing faucets. Three hose bibs supplied by a cold water service that is protected by a reduced pressure backflow preventer shall be provided as illustrated by MD Anderson Installation Detail PL-224000-01.
- O. Flush valves located in specimen collecting toilet rooms shall be provided with AC powered electronic sensors. The electrical power shall be controlled by a wall switch located outside of

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the toilet room to allow nursing staff to prevent use of faucet during collection of specimen. Coordinate with Owner's staff for exact location of wall switch.

- P. Non-monolithic shower floors shall be provided with code compliant drain pan attached to floor drain in accordance with the latest edition of the Uniform Plumbing Code.
- Q. Shower finished floor and bathtub bottom shall be slip resistant.
- R. Bathtubs shall be enameled cast iron or high strength composite material with porcelain finish. Enameled steel bathtubs are not acceptable.

### PART 5 - DOCUMENT REVISION HISTORY

Issue	Date	Revision Description	Reviser

END OF ELEMENT D2010