

# PLANNING, DESIGN AND CONSTRUCTION

INFRASTRUCTURE PLANNING AND FACILITIES

## CONSTRUCTION STANDARDS UPDATES

**December 2025**

*Greetings,*

*This is the latest issue from IPF's Construction Standards Committee detailing recent changes to MSU's Construction Standards.*

*We hope that you will find these updates useful when planning and performing work at MSU. A comprehensive list of design and construction standards is available on the [IPF website](#).*

*The MSU Planning, Design and Construction Team*

### DESIGN GUIDELINES

No changes this quarter

### TECHNICAL STANDARDS

#### [087100 – Door Hardware](#)

- Extensive updates to several sections – Please review

#### [115313 – Laboratory Fume Hoods](#)

- Extensive updates to several sections – Please review

#### [224000 – Plumbing Fixtures](#)

- 2.2 – Lavatory Faucets – Updated designer note
- 2.6 – Flushometers – Updated designer note

- 3.2.M – Installation – Removed ‘Install trap seal liquid in dry urinals’

#### 230523 – General-Duty Valves for HVAC Piping

- 2.1.D.1 – Valve Actuator Types – Specified ‘NPS 6 (DN 200) and larger’
- 2.1.D.3 – Valve Actuator Types – Specified ‘Handlever: For quarter-turn valves less than 6” NPS’
- 2.5.A.1.A – High-Performance Butterfly Valves – Added ‘ABZ 400 Series; Anvil/Smith Cooper’
- 2.5.A.2.G – High-Performance Butterfly Valves – Changed ‘Carbon Steel’ to ‘Stainless Steel’

#### 230913 – Instrumentation and Control Devices for HVAC

- 2.2 – Updated to ‘Air Static/Differential Pressure Transmitters’
- 2.7 – Updated to ‘Control Damper Actuators’
- 2.8 – Updated to ‘Control Damper End Switches’
- 2.9 – Updated to ‘Control Dampers, Insulated Outdoor Air / Relief Air / Exhaust Air – Automated’
- 2.10 – Updated to ‘Control Valves – Cooling or Heating’
- 2.10.D.2.C – Control Valves - Cooling or Heating - Updated to ‘Control Valves shall be selected to have 5 psig max pressure drop or meet the scheduled pressure drop.’
- 2.10.D.3 – Control Valves - Cooling or Heating - Added ‘Low Pressure Drop Segmented-Ball Control Valves’ with specifications and manufacturers.
- 2.17 – Added ‘Hydronic Flow and BTUH Meters – Refer to Section 230519 – Meters and Gauges for HVAC Piping’

#### 232113 – Hydronic Piping

- 3.5.H – Pipe Joint Construction – Specified Preferred Gasket Types

#### 260575 – Electrical for Steam Utility Distribution

- 1.4.B.2 – Regulatory Requirements – Specified ‘2023’
- 2.1.C.2.A – Power Wire – Specified ‘Type XHHW-2’

#### 262400 – Switchboards, Panelboards and Control Centers

- 2.3.C – Lighting Panelboards – Specified ‘bolt/screw-in type’
- 2.3.H – Lighting Panelboards – Removed ‘Each breaker serving a computer circuit shall be protected with a breaker lock to prevent accidental de-energizing’

#### 283100 – Digital, Addressable Fire-Alarm System

- 1.4.O.2.A – Smoke/Heat Detectors – Added ‘Alarm’ and ‘and latch’
- 1.5.H.2 – As-Built Drawings – Specified ‘most current version AutoCAD’

- 2.1.A.1.C – Manufacturers – Added ‘Approved equal by Honeywell – Notifier’
- 2.4.M through 2.4.O – Fire Alarm Interactive Graphic Display – Additional items

#### [321313 – Concrete Pavement](#)

- 2.1.A – Cement – Specified ‘Type 1L’



## STANDARD DETAILS

### Updates

- [210500 – Pendant Sprinkler Piping Detail](#)
- [232213 - Steam Drip Leg Piping Diagrams](#)
- [233600 – Hot Water Reheat Coil with Two-Way Control Valve Piping Diagram](#)
- [324000 - Bollard with Opti-Touch Sensor Section](#)
- [331000 – Water Main Offset](#)



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