

PLANNING, DESIGN AND CONSTRUCTION

INFRASTRUCTURE PLANNING AND FACILITIES

CONSTRUCTION STANDARDS UPDATES

September 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

- [Mechanical](#)
 - 1.F. - Updated references.
 - 7.C. - Water Chiller detail updates.
- [Snow Melt](#)
 - 2.C. - Mechanical Design - Added 'A minimum of one supply and one return manifold is required for each 1,600 square foot area and for alternate expansion/construction joints.'
- [Stormwater](#)
 - New [Stormwater Calculator](#) added.

TECHNICAL STANDARDS

- [221119 Domestic Water Piping Specialties](#)

- 2.4.C.1. - Removed Ames from list of approved manufacturers.
- [224000 Plumbing Fixtures](#)
 - 2.11. - Urinals - Extensive updates - Please review.
- [224500 Emergency Plumbing Fixtures](#)
 - 2.3.A.1.B. - Added Water Saver EW1028VB.
 - 2.5. - Water Tempering Equipment - Updated designer note.
 - 2.5.A.2.A. - Specifying temperature range following ANSI standard.
- [236100 Refrigerant Compressors](#)
 - 1.3.E. - Removed LEED Submittal wording.
 - 1.4.B. - Removed designer note.
 - 1.4.C. - Removed reference to specific year.
- [236313 Air Cooled Refrigerant Condensers](#)
 - 1.3.D. - Submittals - Removed designer note and product data for credit.
 - 1.4.B. - Quality Assurance - Removed designer note.
 - 1.4.C. - Removed reference to specific year.
- [236419 Reciprocating Water Chillers](#)
 - 1.2.B.1. - Changed 'Refrigerant' to 'Hazardous Material Gas'.
 - 1.5.C. - ASHRAE Compliance - Removed designer note.
 - 1.5.D. - Removed reference to specific year.
 - 2.1. - Packaged Water Cooled Water Chillers - Updated designer note.
 - 2.1.A.2. - Removed reference to 'McQuay International'.
 - 2.1.F. - Refrigeration - Updated designer note.
 - 2.1.H.2. - Condenser - Removed designer note and entire section on brazed plate condensers.
 - 2.2. - Packaged Air Cooled Water Chillers - Updated designer note.
 - 2.2.A. - Removed reference to 'McQuay International'.
 - 2.2.G. - Refrigeration - Updated designer note.
 - 2.2.G.1. - Update to refrigerant info.
- [236423 Scroll Water Chillers](#)
 - 1.2.B.1. - Changed 'Refrigerant' to 'Hazardous Material Gas'.
 - 1.4.B. - Action Submittals - Removed designer note and product data for credit.
 - 1.7.C. - ASHRAE Compliance - Removed designer note.
 - 2.1.A.2. - Removed reference to 'McQuay International'.
 - 2.1.F. - Refrigeration - Added designer note.
 - 2.1.F.1. - Update to refrigerant info.
 - 2.2.A. - Packaged Air Cooled Water Chillers - Removed references to 'McQuay International' and 'York International Corporation'.
 - 2.2.G. - Refrigeration - Updated designer note.

- 2.2.G.1. - Update to refrigerant info.
- [236426 Rotary Screw Water Chillers](#)
 - 1.2.B.1. - Changed 'Refrigerant' to 'Hazardous Material Gas'.
 - 1.5.B. - Removed LEED Submittal wording.
 - 1.8.C.2. - Removed designer note.
 - 2.1.J. - Refrigerant Circuits - Updated designer note.
 - 2.1.J.1. - Update to refrigerant info.
 - 2.1.N. - Compressor Motor Controllers - Changed references to 'McQuay' to 'Daikin' in designer note.
 - 2.2.A.2. - Removed reference to 'McQuay International'.
 - 2.2.J. - Compressor Motor Controllers - Changed references to 'McQuay' to 'Daikin' in designer note.
 - 2.2.K. - Refrigerant Circuits - Updated designer note.
 - 2.2.K.1. - Update to refrigerant info.
 - 2.2.R. - Characteristics - Updated designer note.
- [238318 Snow Melting Equipment](#)
 - 1.8.C. - LEED Compliance - Removed entire section.
 - 2.14.C. - Clarified 'Heat Exchangers for HVAC' wording.



STANDARD DETAILS

Updates

- [232123 Base Mounted End Suction Pump Piping Diagram](#)
- [232123 Horizontal Split Case Pump Piping Diagram](#)
- [232213 Duplex Steam Pressure Reducing Station](#)



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