

U of I Facilities Standards – Updates for 2017

Updates to the U of I Facilities Standards will occur on a periodic basis (typically all standards will be reviewed for accuracy & completeness every 3 years), as noted by the “LAST UPDATED” date in the document footer or title block of a drawing. These updates shall be in force at the time of posting on the U of I Facilities Standards website. Standards in force at the time of an AE signed contract shall apply through the life of the project’s contract. For convenience, updates will be incorporated into the main body of the Standards with revisions clearly shown.

Notation used in the Updated Documents:

Revised File: A vertical line in the margin of a document indicates that the material differs from the previous edition. This material should be reviewed carefully, as some requirements may have changed.

Completely Revised File: Occasionally a standard will need to be completely or almost completely revised. There will not be a vertical line in the margin of a document indicating all the changes. The footer date will be updated and the document should be reviewed as a new standard.

New File: A new file within the General Requirements, General Guidelines, Technical Sections, Exhibits or Drawing Details directory will not have a vertical line.

PLEASE REVIEW THE FILES LISTED BELOW FOR THE EDITS THAT HAVE BEEN MADE TO THE STANDARD.

Section	Standards Document*	New Standard?
General Requirements	<i>Application of Standards</i>	
	<i>Classroom Lecture Halls General Design</i>	
	<i>Codes, Standards and Regulations</i>	
	<i>Historic Preservation Review Procedures</i>	
	<i>LEED Requirements</i>	
	<i>Requirements for Project Design Calculations</i>	
	<i>Sustainability</i>	New

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Section	Standards Document*	New Standard?
General Guidelines – Building Elements	<i>Doors & Windows, Glazing</i>	
	<i>Finishes, Treatments, & Trim, Interior</i>	
	<i>Floors</i>	
	<i>Foundations, Below-Grade Construction</i>	
	<i>Keying Systems & Lockset Functions</i>	
	<i>MEP Space Requirements</i>	
	<i>Service Entrances, Material & Waste Handling</i>	
	<i>Space Calculations for Offices and Classrooms</i>	
	<i>Storm Refuge Areas</i>	Yes – Replaced “Tornado Shelters”
General Guidelines – Building Systems	<i>Chemical Treatment, Water Conditioning Systems</i>	
	<i>Energy Conservation</i>	
	<i>Heating Systems</i>	
	<i>HVAC Systems</i>	
	<i>Hydronic Heating, Cooling Systems</i>	
	<i>Laboratory Ventilation</i>	ENTIRE SECTION EDITED
	<i>Ventilation Systems</i>	
General Guidelines - Sites & Grounds	<i>Construction Staging Area</i>	
	<i>General Site Civil Requirements</i>	
	<i>Parking</i>	
	<i>Streets, Sidewalks & Bicycle Network</i>	

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Section	Standards Document*	New Standard?
General Guidelines - Utilities	<i>Chilled Water Distribution System</i>	
	<i>Water Distribution Systems</i>	
Division 01 - Administrative	<i>01 33 23 - Shop Drawings, Product Data, and Samples</i>	
	<i>01 35 00 - Special Procedures</i>	
	<i>01 55 00 - Vehicular Access and Parking</i>	
	<i>01 56 00 - Temporary Barriers and Enclosures</i>	
	<i>01 78 23 - Operation and Maintenance Data</i>	
	<i>01 78 39 - Project Record Documents</i>	
Division 08 - Openings (Doors and Windows)	<i>08 11 13 - Hollow Metal Doors and Frames</i>	
Division 11 - Equipment	<i>11 53 13 - Chemical Fume Hoods and Biological Safety Cabinets</i>	
	<i>11 53 53 - Biological Safety Cabinets</i>	New
Division 12 - Furnishings	<i>12 61 00 - Fixed Audience Seating</i>	
Division 21 - Fire Suppression	<i>21 10 00 - Water-Based Fire-Suppression Systems</i>	
Division 22 - Plumbing	<i>22 07 16 - Plumbing Equipment Insulation</i>	
	<i>22 07 19 - Plumbing Piping Insulation</i>	
	<i>22 10 00 - Plumbing Piping</i>	
	<i>22 11 23.13 - Domestic Water Pressure Boosting Systems, VFD</i>	
	<i>22 13 16 - Sanitary Waste and Vent Piping</i>	
	<i>22 13 29 - Sanitary and Storm Sewer Pumps</i>	
	<i>22 40 00 - Plumbing Fixtures</i>	
	<i>23 05 19 - Meters and Gauges for HVAC Piping</i>	

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Section	Standards Document*	New Standard?
Division 23 - Heating, Ventilating, and Air Conditioning (HVAC)	<i>23 05 93 - Testing, Adjusting and Balancing for HVAC</i>	
	<i>23 07 13 - Duct Insulation</i>	
	<i>23 07 16 - HVAC Equipment Insulation</i>	
	<i>23 07 19 - HVAC Piping Insulation</i>	
	<i>23 09 13 - Instrumentation and Control Devices for HVAC</i>	
	<i>23 09 13.33 - Control Valves</i>	
	<i>23 09 13.34 - Control Valve Actuators</i>	
	<i>23 09 13.43 - Control Dampers</i>	
	<i>23 09 23 - Building Automation System (BAS) for HVAC</i>	
	<i>23 09 43 - Pneumatic Controls for HVAC</i>	
	<i>23 20 00 - Pipe Joining</i>	
	<i>23 21 13 - Hydronic Piping</i>	
	<i>23 21 16 - Hydronic Specialties</i>	
	<i>23 21 23 - Hydronic Pumps</i>	
	<i>23 22 13 - Steam and Condensate Piping</i>	
	<i>23 22 16 - Steam and Condensate Specialties</i>	
	<i>23 22 23 - Steam Condensate Pumps</i>	
	<i>23 25 10 - Fluid Filtration</i>	
	<i>23 34 00 - HVAC Fans</i>	
	<i>23 36 00 - Air Terminal Units</i>	
<i>23 73 13 - Modular Air Handling Units</i>		
<i>23 73 23 - Custom AHU</i>		
<i>23 82 16 - Air Coils</i>		

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Section	Standards Document*	New Standard?
Division 26 - Electrical	<i>26 05 33 – Raceways</i>	
	<i>26 05 53 - Identification for Electrical Systems</i>	
	<i>26 09 23 - Lighting Controls</i>	
	<i>26 11 16 - Secondary Unit Substations</i>	
	<i>26 22 13 - Transformers</i>	
	<i>26 23 00 - Low Voltage Switchgear</i>	
	<i>26 24 13 - Switchboards</i>	
	<i>26 24 16 - Panelboards</i>	
	<i>26 27 13 - Electrical Metering</i>	
	<i>26 29 13 - Motor Control</i>	
	<i>26 56 00 - Exterior Lighting</i>	
Division 32 - Exterior Improvements	<i>32 13 13 - Sidewalks & Pavers</i>	
Division 33 - Utilities	<i>33 63 00 - Tunnel Steam and Condensate Systems</i>	New
Exhibits	<i>Exhibit 01 33 23-01 Electronic Construction Submittal Process</i>	
	<i>Exhibit 23 09 23-08a, VAV Box Sequence of Operation</i>	
	<i>Exhibit 23 09 23-09 AHU Standard VAV AHU Sequence of Operation</i>	
	<i>Exhibit 23 09 23-14 Energy Recovery Wheel Standard Sequence of Operation</i>	
	<i>Exhibit 23 09 23-15 Energy Recovery Run Around Coil Standard Sequence of Operation</i>	
	<i>Exhibit 23 09 23-16 Two Pump HTX Sequence of Operation</i>	
	<i>Exhibit 27 40 00-02, AV Basis of Design</i>	
Drawing Details	<i>Drawing 01 58 13-01, Project Site Sign Template</i>	
	<i>Drawing 12 93 53-02, Post and Chain</i>	

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Section	Standards Document*	New Standard?
	<i>Drawing 23 05 17-01, Pipe Penetration Interior Wall</i>	New
	<i>Drawing 23 05 17-02, Pipe Penetration Fire Wall</i>	New
	<i>Drawing 23 05 17-03, Pipe Penetration Exterior Wall</i>	New
	<i>Drawing 23 05 17-04, Pipe Penetration Floor</i>	New
	<i>Drawing 23 09 05-03, Type VAV AHU, Minimum OA, HW Preheat</i>	
	<i>Drawing 23 09 05-11, Steam to Hot Water Heat Exchanger HW System Controls</i>	
	<i>Drawing 23 09 13-01, Differential Pressure Instrumentation-Model</i>	
	<i>Drawing 23 09 13-02, Static Pressure Instrumentation</i>	
	<i>Drawing 23 09 13-03, Central Chilled Water System Metering Station</i>	
	<i>Drawing 23 20 00-01, Central Chilled Water System - Building Service Entrance</i>	
	<i>Drawing 23 21 00-01, Flow Diagram - Hot Water Heating System</i>	
	<i>Drawing 23 21 13-01, Hydronic Air-Dirt Separator Installation Detail</i>	
	<i>Drawing 23 22 00-01, Flow Diagram - Steam Heating Systems</i>	
	<i>Drawing 23 22 00-02, Flow Diagram - Steam PRV and Condensate Return System</i>	
	<i>Drawing 23 25 10-01, Bypass Filtration Piping Detail</i>	
	<i>Drawing 23 36 00-01, Air Terminal Unit Ventilation Connection</i>	
	<i>Drawing 23 36 00-02, Air Terminal Unit Installation</i>	
	<i>Drawing 23 82 16-01, Freeze Protection Thermostat Installation</i>	
	<i>Drawing 26 56 00-02, Pedestrian Area Light Installation</i>	
	<i>Drawing 26 56 00-03, Parking Lot Light Installation</i>	
	<i>Drawing 32 13 13-01, Concrete Sidewalk Installation</i>	
	<i>Drawing 32 17 23-02, Motorcycle Parking, Single Loaded Bay</i>	
	<i>Drawing 33 05 23-01, Utility Requirements Under Tree Root Zones</i>	
Variance Process	<i>Variance Approval Request Form</i>	

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Section	Standards Document*	New Standard?
	<i>Variance Rejection Appeal Form</i>	
	<i>Variances</i>	

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