

# AV F&I Mechanical Standards Revision Record

Revision Date: January 1, 2023



## Standard Specifications:

Section	Title	Previous	Current
	Executive Summary	January 22, 2020	Updated formatting. {JF} Added 1.04 J Compressed Air. {JC}
General Provisions	Design Submittal Guidelines	November 30, 2019	Updated formatting. {JF} Edited PART 1. {JC}
General Provisions	Standards Codes and Regulations	January 22, 2020	Updated formatting. {JF} Updated references in PART 1. {JC}
General Provisions	Mechanical Drawings Schedules and Diagrams	January 22, 2020	Removed old Appendices. {JC}
General Provisions	Mechanical ID System	January 22, 2020	Updated formatting. {JF} Edited 1.03 VALVE AND INSTRUMENT TAGS. {LO}
General Provisions	Sole Source Equipment Manufacturers List	January 22, 2020	Updated formatting. {JF} Edited PART 1. {JC}
General Provisions	Mechanical System Commissioning	January 22, 2020	Updated formatting. {JF} Edited PART 1. {JC}
General Provisions	Smoke Control Systems	January 31, 2022	Updated formatting. {JF} Edited PART 1. {JC}
20 03 00	Basic Materials and Methods	January 31, 2022	Updated formatting. {JF} Removed grease waste piping from 1.01 B Utilities. {JC} Edited 1.01 C Vibration Isolation and Seismic Restraints. {JC} Added 1.01 G Freeze Protection section. {JC} Added cooling coil condensate to 2.03 A. {JC} Divided 3.01 MECHANICAL PIPE PENETRATION SEALS into new 3.01 GENERAL section, new 3.02 DEMOLITION section, and renumbered 3.03 MECHANICAL PIPE PENETRATION SEALS. {JC}
20 04 00	Valves	January 22, 2020	Updated formatting. {JF} Added Triple-Offset Butterfly Valve to 2.01 MANUFACTURERS and 2.02 BASIC, COMMON FEATURES. {JC} Edited 2.03 VALVE SELECTION. {JC}

20 05 93	Testing and Balancing	January 22, 2020	Updated formatting. {JF} Edited PART 1 and PART 2. {JC}
20 07 00	Plumbing and HVAC Insulation	January 31, 2022	Updated formatting. {JF} Edited 1.01 DESCRIPTION. {JC} Edited 1.02 INSULATION tables. {JC}
20 09 20	Direct Digital Controls	January 22, 2020	Updated formatting. {JF} Edited 2.11 SYSTEM DEFINITIONS. {LO} Removed conveyor/elevator/escalator access groups from 3.02 USER ACCOUNTS / ACCESS PRIVILEGES. {LO}
21 10 00	Fire-Suppression System	January 22, 2020	Updated formatting. {JF} Incorporated RAC reference into PART 1. {JC} Fire pumps added as 1.05 C to 1.05 SYSTEM DESIGN. {JC} Renamed 2.01 COMPONENT LISTING AND RATING to COMPONENT SELECTION, LISTING, AND RATING. {JC} Renamed 2.21 IDENTIFICAITON SIGNS to IDENTIFICAITON SIGNS AND LABELS. {JC}
22 11 00	Interior Water Pipe and Fittings	January 1, 2022	Renumbered section from 21 11 00 to 22 11 00. {JC} Updated formatting. {JF} Removed hot taps from 1.01 B and 3.01 A. {JC} Added water meter and backflow positioning information to 1.01 B. {LO} Removed "purple pipe" from 2.01 B. {JC} Edited 2.02 PRESSURE REDUCTING VALVES. {JC} Added information to 2.03 REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER. {LO} Added 2.04 ICE MACHINES section. {LO} Added 2.05 SOAP / CHEMICAL DISPENSERS KITCHEN / MOP SINK section. {LO} Added labelling requirement to 2.06 WATER METERS. {LO} Edited 3.01 C for shutdown requests. {LO} Added 3.02 BACKFLOW DEVICE TESTING REQUIREMENTS section. {LO}

22 12 19	Sanitary Waste, Vent, and Storm System	March 11, 2020	Renumbered section from 21 12 00 to 22 12 00. {JC} Updated formatting. {JF} Edited 2.02 PIPE AND FITTINGS - ABOVEGROUND. {JC} Removed content from 2.07 GREASE INTERCEPTOR. {JC}
22 12 19	Gate Potable Water Stands	January 22, 2020	Updated formatting. {JF} Edited PART 1 and PART 2. {JC}
22 40 00	Plumbing Fitures & Trim	January 31, 2022	Updated formatting. {JF} Added hose bibs and floor drains to 1.02 A. {JC}
22 61 00	Compressed Air Systems	January 31, 2022	Updated formatting. {JF} Added ball valve to 1.01 B Design. {JC}
23 05 13	Motors	February 15, 2017	Readded Standard. Standard not included since 2018 publication. {JF} Updated formatting. {JF} Edited 1.01 DESIGN CRITERIA. {JC} Removed "Motors without Variable Frequency Drives" from 1.01 C. {JC}
23 11 23	Natural Gas Distribution System	December 22, 2020	Updated formatting. {JF} Added installation requirement to 1.01 B. {LO} Added pulsing and IDs to 2.02 METERS. {LO}
23 21 23	Pumps	February 15, 2017	Readded Standard. Standard not included since 2018 publication. {JF} Updated formatting. {JF} Added 1.03 OPERATIONS AND MAINTENANCE MANUALS section. {JC} Added 3.01 INSTALLATION section. {JC}
23 22 00	Steam and Condensate System	January 31, 2022	Updated formatting. {JF} Edited PART 1 and PART 2. {JC}
23 30 00	Air Distribution System	January 22, 2020	Updated formatting. {JF} Added and moved terminal unit information to 1.01 A. {JC} Added bird screens, dust-sensitive rooms, and canine areas to 1.01 A. {JC}
23 35 00	Special Exhaust System	January 22, 2020	Updated formatting. {JF} Added code references to 1.01 B. {JC} Added natural gas reset to 2.01. {LO}
23 50 00	Hot Water Heating System	January 22, 2020	Updated formatting. {JF} Edited PART 1 and PART 2. {JC}

23 60 00	Chilled Water System	January 22, 2020	Updated formatting. {JF} Edited PART 1 and PART 2. {JC} Added 2.08 COIL CONDENSATE section. {JC}
23 60 10	Chillers and Cooling Equipment	January 22, 2020	Updated formatting. {JF} Added drawing calculation requirement to 1.01 B. {JC}
23 60 20	Cooling Towers	January 22, 2020	Updated formatting. {JF}
23 62 00	Pre-Conditioned Air System	February 15, 2017	Updated formatting. {JF} Added freeze protection to 1.01 B. {JC}
23 70 00	Air Handling Equipment	January 22, 2020	Updated formatting. {JF} Added freeze protection pump to 1.01 C. {JC} Removed 2.02 MULTI ZONE AIR HANDLER section. {JC}
23 81 07	Variable Frequency Drives	January 22, 2020	Updated formatting. {JF} Edited 2.02 L Communications. {LO} Edited 3.04 STARTUP SERVICE and 3.05 IDENTIFICAITON. {LO}
Appendix A	Mechanical Legend Symbols Abbreviations General Notes	November 19, 2018	Changed UMC and UBC to IMC and IBC. {JF}
Appendix B	Riser Diagrams	January 22, 2014	Added secondary heat exchanger to Hydronic Piping Riser Diagram. {JF}
Appendix D	Mechanical Equipment Schedules	January 1, 2014	Added MBH to coil schedules. Added "Fire/Smoke Damper" schedule. {JF}
Appendix E	Mechanical Diagrams and Details	November 1, 2020	Removed detail SD-206 and SD-509. Renamed detail SD-400A to SD-400. Modified text in details SD-207, 208, 305, 308, 400, and 401. Aligned text in details SD-301, 305, 306, 502A, 503, 504, and 505. {JF}
Appendix F	PC Air System Diagrams and Details	January 1, 2014	Removed Appendix F. {JF}