

Index (NMS/DTW Update)

- Add new section 01 43 39 – Mock Up Requirements.
- Add new section 04 01 20 – Maintenance of Unit Masonry
- Renumber Section 04 05 12 to 04 05 13.
- Renumber Section 05 51 29 to 05 51 00.
- Section 09 68 13 – Tile Carpet: rename section to “Tile Carpeting”.
- Section 09 68 16 – Sheet Carpet: rename section to “Sheet Carpeting”.
- Section 21 12 00 – Standpipe and Hose Assembly: rename section to “Fire-Suppression Standpipes and Hose Assemblies”.
- Section 21 30 00 – Fire Pumps: rename section to “Fire Pumps and Controllers”.
- Renumber Section 23 05 05 to 23 05 15; rename section to “Common Installation Requirements for HVAC Pipework”.
- Add new Section 23 05 05 – Selective Demolition for Heating, Ventilation and Air Conditioning (HVAC).

Section 01 33 00 – Submittal Procedures (DTW Update)

- Sentence 1.5.1, delete words “01 45 00 – Quality Control” and replace with “01 43 39 – Mock Up Requirements”.

Section 01 43 39 – Mock Up Requirements (DTW Update)

- Add new Section 01 43 39 – Mock Up Requirements.

Section 01 45 00 – Quality Control (DTW Update)

- Delete sentence 1.9 and replace with the following:

1.9 Mock Ups

.1 Refer to Section 01 43 39 for Mock Up Requirements.

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Section 03 35 00 – Concrete Finishing (NMS/DTW Update)

- Delete sentence 1.4 and replace with the following:

1.4 Submittals

- .1 Provide manufacturer's printed product literature and data sheets for concrete finishes and include product characteristics, performance criteria, physical size, finish and limitations.
- .2 Submit WHMIS MSDS - Material Safety Data Sheets. WHMIS MSDS acceptable to Labour Canada and Health and Welfare Canada for concrete floor treatment materials. Indicate VOC content.
- .3 Include application instructions for concrete floor treatment.

Section 04 01 20 – Maintenance of Unit Masonry (DTW Update)

- Add new section 04 01 20 – Maintenance of Unit Masonry.

Section 04 05 00 – Common Work Results for Masonry (DTW Update)

- Sentence 1.1.7, delete word “04 05 12” and replace with “04 05 13”.
- Sentence 1.5.1, delete words “01 45 00 – Quality Control” and replace with “01 43 39 – Mock Up Requirements”.
- Delete sentence 1.5.3.
- Renumber 1.5.4 to 1.5.3.
- Delete sentence 1.5.5.
- Delete sentence 1.5.6.

Section 04 05 12 – Masonry Mortar and Grout (DTW Update)

- Renumber section to 04 05 13.

Section 04 05 19 – Masonry Anchorage and Reinforcing (DTW Update)

- Sentence 1.1.4, delete word “04 05 12” and replace with “04 05 13”.

Section 04 20 00.08 – Masonry for Minor Works (DTW Update)

- Sentence 1.7.1.1, delete words “01 45 00 – Quality Control” and replace with “01 43 39 – Mock Up Requirements”.
- Delete sentence 1.7.1.3.

Section 04 21 13 – Brick Masonry (DTW Update)

- Sentence 1.1.4, delete word “04 05 12” and replace with “04 05 13”.
- Sentence 1.4.1.1, delete words “01 45 00 – Quality Control” and replace with “01 43 39 – Mock Up Requirements”.
- Sentence 2.2.5, delete word “04 05 12” and replace with “04 05 13”.
- Sentence 2.2.6, delete word “04 05 12” and replace with “04 05 13”.

Section 04 22 00 – Concrete Unit Masonry (DTW Update)

- Sentence 1.1.3, delete word “04 05 12” and replace with “04 05 13”.
- Sentence 1.4.1.1, delete words “01 45 00 – Quality Control” and replace with “01 43 39 – Mock Up Requirements”.
- Delete sentence 1.4.1.3.
- Sentence 2.2.4, delete word “04 05 12” and replace with “04 05 13”.
- Sentence 2.2.5, delete word “04 05 12” and replace with “04 05 13”.

Section 04 23 00 – Glass Unit Masonry (DTW Update)

- Sentence 1.1.8, delete word “04 05 12” and replace with “04 05 13”.
- Sentence 1.5.1.1, delete words “01 45 00 – Quality Control” and replace with “01 43 39 – Mock Up Requirements”.
- Delete sentence 1.5.1.3.
- Delete sentence 1.8.
- Renumber 1.9 to 1.8.
- Sentence 3.4.1.1, delete word “04 05 12” and replace with “04 05 13”.

Section 05 12 23 – Structural Steel for Buildings (NMS/DTW Update)

- Delete sentence 1.2 and replace with the following:

1.2 References

- .1 American Society for Testing and Materials International (ASTM)
 - .1 ASTM A36/A36M, Standard Specification for Carbon Structural Steel.
 - .2 ASTM A325, Standard Specification for Structural Bolts, Steel, Heat Treated, 120/105 ksi Minimum Tensile Strength.
 - .3 ASTM A325M, Standard Specification for Structural Bolts, Steel, Heat Treated 830 MPa Minimum Tensile Strength [Metric].
- .2 Canadian General Standards Board (CGSB)
 - .1 CAN/CGSB-85.10, Protective Coatings for Metals.
- .3 Canadian Institute of Steel Construction (CISC)/Canadian Paint Manufacturer's Association (CPMA)
 - .1 Handbook of the Canadian Institute of Steel Construction.
 - .2 CISC/CPMA 2, Quick-Drying, Primer for use on Structural Steel.
- .4 Canadian Standards Association (CSA)
 - .1 CAN/CSA G40.20/G40.21, General Requirements for Rolled or Welded Structural Quality Steel/Structural Quality Steel.
 - .2 CAN/CSA-G164, Hot Dip Galvanizing of Irregularly Shaped Articles.
 - .3 CAN/CSA-S16, Limit States Design of Steel Structures.
 - .4 CAN/CSA-S136, North American Specifications for the Design of Cold Formed Steel Structural Members.
 - .5 CSA W47.1, Certification of Companies for Fusion Welding of Steel.
 - .6 CSA W48, Filler Metals and Allied Materials for Metal Arc Welding.
 - .7 CSA W55.3, Resistance Welding Qualification Code for Fabricators of Structural Members Used in Buildings.
 - .8 CSA W59, Welded Steel Construction (Metal Arc Welding).
- .5 The Society for Protective Coatings (SSPC) and National Association of Corrosion Engineers (NACE) International

- .1 NACE No. 1/ SSPC SP 1, Solvent Cleaning.
- .2 NACE No. 7/SSPC SP-7, Brush-Off Blast Cleaning.

Section 05 31 00 – Steel Decking (NMS Update)

- Add the following sentence 3.7.

3.7 Field Touch-Up Painting

- .1 Upon erection completion, mechanically brush clean bolts, rivets, welds, and burned or scratched surfaces.
- .2 For galvanized steel surface with damage and without shop coat, repair with field touch up primer.

Section 05 41 00 – Structural Steel Stud Framing (NMS Update)

- Delete sentence 1.2.3.
- Renumber sentence 1.2.4 to 1.2.3.
- Delete 1.2.4.1 and replace with the following:

- .1 CSSBI 51, Lightweight Steel Framing Design Manual.

Section 05 50 00 – Metal Fabrications (NMS Update)

- Sentence 1.1.10, delete word “05 51 29” and replace with “05 51 00”.

Section 05 51 29 – Metal Stairs and Ladders (NMS Update)

- Renumber section to 05 51 00.

Section 06 10 53 – Miscellaneous Rough Carpentry (DTW Update)

- Sentence 1.1.3, delete word “07 91 00” and replace with “07 92 00”.
- Sentence 2.3.3, delete word “07 91 00” and replace with “07 92 00”.

Section 06 40 00 – Architectural Woodwork (DTW Update)

- Sentence 1.5.1, delete words “01 45 00 – Quality Control” and replace with “01 43 39 – Mock Up Requirements”.
- Delete sentence 1.5.3.
- Delete sentence 1.5.4.

Section 06 40 23.13 – Plastic Laminate Finishing for Interior Architectural Woodwork (DTW Update)

- Renumber 1.4.2 to 1.4.3.
- Sentence 1.4.2.1, delete words “01 45 00 – Quality Control” and replace with “01 43 39 – Mock Up Requirements”.
- Delete sentence 1.4.2.3.
- Delete sentence 1.4.2.4.
- Delete sentence 1.4.2.5.
- Delete sentence 1.4.2.6.

Section 07 13 26 – Self Adhered Sheet Waterproofing (DTW Update)

- Sentence 1.6.1, delete words “01 45 00 – Quality Control” and replace with “01 43 39 – Mock Up Requirements”.
- Delete sentence 1.6.4.
- Delete sentence 1.6.5.

Section 07 21 29 – Sprayed Insulation – Polyurethane Foam (DTW Update)

- Sentence 1.5.1, delete words “01 45 00 – Quality Control” and replace with “01 43 39 – Mock Up Requirements”.
- Delete sentence 1.5.3.

Section 07 26 00 – Vapour Retarders (DTW Update)

- Add following sentence 1.4.1:
 - .1 Provide a mock-up in accordance with requirements of Section 01 43 39 – Mock Up Requirements.
- Renumber sentence 1.4.1 to 1.4.2.
- Renumber 1.4.2 to 1.4.3.
- Delete sentence 1.4.3.

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- Delete sentence 1.4.4.

Section 07 27 00.01 – Air Barriers – Descriptive or Proprietary (DTW Update)

- Sentence 1.7.1, delete words “01 45 00 – Quality Control” and replace with “01 43 39 – Mock Up Requirements”.
- Delete sentence 1.7.4.
- Delete sentence 1.7.5.

Section 07 31 13.13 – Fiberglass-Reinforced Asphalt Shingles (DTW Update)

- Delete sentence 1.4.
- Renumber 1.5 to 1.4.
- Renumber 1.6 to 1.5.
- Renumber 1.7 to 1.6.
- Renumber 1.8 to 1.7.

Section 07 42 43 – Composite Wall Panels (DTW Update)

- Sentence 1.7.1, delete words “01 45 00 – Quality Control” and replace with “01 43 39 – Mock Up Requirements”.
- Delete sentence 1.7.5.
- Renumber 1.7.6 to 1.7.5.
- Delete sentence 1.7.7.
- Delete sentence 1.7.8.
- Delete sentence 1.7.9.
- Delete sentence 1.7.10.

Section 07 52 00 – Modified Bituminous Membrane Roofing (DTW Update)

- Delete sentence 1.10.1 and replace with the following:

- .1 Provide certificate signed by roofing manufacturer verifying that installer is approved, authorized and/or licensed by manufacturer to install specified products and is eligible to obtain the specified warranty of the section.
- Add the following sentence 1.10.3.3:
- .3 Provide manufacturer's written acceptance of roofing installation based on specified inspections.
- Sentence 1.11.1, delete words "01 45 00 – Quality Control" and replace with "01 43 39 – Mock Up Requirements".
- Delete sentence 1.11.3.
- Delete sentence 1.11.4.
- Sentence 2.9.2, delete word "22 42 01" and replace with "22 05 15".

Section 07 54 23 – Thermoplastic Polyolefin (TPO) Roofing (DTW Update)

- Delete sentence 1.6.1 and replace with the following:
 - .1 Provide certificate signed by roofing manufacturer verifying that installer is approved, authorized and/or licensed by manufacturer to install specified products and is eligible to obtain the specified warranty of the section.
- Add the following sentence 1.6.3.3:
- .3 Provide manufacturer's written acceptance of roofing installation based on specified inspections.
- Sentence 1.8.1, delete words "01 45 00 – Quality Control" and replace with "01 43 39 – Mock Up Requirements".
- Delete sentence 1.8.3.
- Delete sentence 1.8.4.
- Sentence 2.10.1, delete word "22 42 01" and replace with "22 05 15".

Section 07 81 00 – Applied Fireproofing (DTW Update)

- Sentence 1.5.1, delete words "01 45 00 – Quality Control" and replace with "01 43 39 – Mock Up Requirements".

- Delete sentence 1.5.3.
- Delete sentence 1.5.4.

Section 07 84 00 – Firestopping (DTW Update)

- Sentence 1.6.1, delete words “01 45 00 – Quality Control” and replace with “01 43 39 – Mock Up Requirements”.
- Delete sentence 1.6.3.

Section 07 92 00 – Joint Sealants (DTW Update)

- Sentence 1.6.1, delete words “01 45 00 – Quality Control” and replace with “01 43 39 – Mock Up Requirements”.
- Delete sentence 1.6.3.
- Renumber sentence 1.6.4 to 1.6.3.
- Delete sentence 1.6.5.

Section 08 26 13.16 – Sectional Metal Doors (DTW Update)

- Delete sentence 1.8.

Section 08 44 13 – Glazed Aluminum Curtain Walls (DTW Update)

- Delete sentence 1.5.4.
- Sentence 1.7.1, delete words “01 45 00 – Quality Control” and replace with “01 43 39 – Mock Up Requirements”.
- Delete sentence 1.7.4 and replace with the following:
 - .4 Construct mock-up of one (1) of each curtain wall system type in its final location for review by the Owner’s Representative before proceeding with the remainder of the Work.
- Delete sentence 1.7.5.

Section 08 51 13 – Aluminum Windows (DTW Update)

- Sentence 1.7.1, delete words “01 45 00 – Quality Control” and replace with “01 43 39 – Mock Up Requirements”.

- Delete sentence 1.7.3.
- Delete sentence 1.7.4.

Section 08 62 11 – Glazed Aluminum Skylights (DTW Update)

- Add the following sentence 1.7.1:
 - .1 Provide a mock-up in accordance with requirements of Section 01 43 39 – Mock Up Requirements.
- Renumber sentence 1.7.1 to 1.7.2.
- Renumber sentence 1.7.2 to 1.7.3.
- Delete sentence 1.7.3.
- Delete sentence 1.7.4.
- Delete sentence 2.2.4 and replace with the following:
 - .4 Glass: Insulating glass units to CAN/CGSB-12.8, Type 2-tempered for the exterior lite, Type 1-laminated for the interior lite, glass thickness shall be a minimum of 6 mm and as determined by glazing manufacturer to meet National Building Code requirements. Glass coating: surface number 2 (inside face of outer light), low “E”. Inert gas: argon.

Section 08 80 00 – Glazing (DTW Update)

- Sentence 1.6.1, delete words “01 45 00 – Quality Control” and replace with “01 43 39 – Mock Up Requirements”.
- Delete sentence 1.6.3.
- Renumber sentence 1.6.4 to 1.6.3.
- Delete sentence 1.6.5.
- Delete sentence 1.6.6.
- Add the following sentence 2.2.3:

- .3 Laminated Safety Glass with Internal Blind (LSGWIB): sealed insulated glass units for interior doors and door sidelites, with glazing tag (LSGWIB), as follows:
 - .1 Outer and inner panes to be 6.0 mm laminated safety glass.
 - .2 Inter-cavity space thickness: 25 mm to suit blind.
 - .3 Louvers: hollow extruded aluminum, interlocking profile, 25 mm deep.
 - .4 Internal, operable louver blind with gear operation for manual thumb wheel or knob control, on inside of room.
 - .5 Spacers: to ASTM C864, neoprene or EPDM; or ASTM C1115, silicone; 50 to 60 Shore A durometer hardness.

Section 09 01 90.62 – Exterior Re-Painting (DTW Update)

- Delete sentence 1.8.1 and replace with the following:
 - .1 Provide a mock-up in accordance with requirements of Section 01 43 39 – Mock Up Requirements, to Owner Representative's requirements.
- Delete sentence 1.8.3.
- Delete sentence 1.9.
- Renumber 1.10 to 1.9.
- Renumber 1.11 to 1.10.
- Renumber 1.12 to 1.11.

Section 09 01 90.63 – Interior Re-Painting (DTW Update)

- Delete sentence 1.8.1 and replace with the following:
 - .1 Provide a mock-up in accordance with requirements of Section 01 43 39 – Mock Up Requirements, to Owner Representative's requirements.
- Delete sentence 1.8.3.
- Delete sentence 1.9.
- Renumber 1.10 to 1.9.
- Renumber 1.11 to 1.10.

- Renumber 1.12 to 1.11.

Section 09 21 16 – Gypsum Board Assemblies (DTW Update)

- Sentence 1.7.1, delete words “01 45 00 – Quality Control” and replace with “01 43 39 – Mock Up Requirements”.
- Delete sentence 1.7.3.
- Delete sentence 1.7.4.

Section 09 30 13 – Ceramic Tiling (DTW Update)

- Sentence 1.8.1, delete words “01 45 00 – Quality Control” and replace with “01 43 39 – Mock Up Requirements”.
- Delete sentence 1.6.
- Renumber 1.7 to 1.6.
- Renumber 1.8 to 1.7.
- Delete sentence 1.8.2.
- Delete sentence 1.8.3.
- Renumber 1.9 to 1.8.

Section 09 30 15 – Quarry and Paver Tiling (DTW Update)

- Sentence 1.7.1, delete words “01 45 00 – Quality Control” and replace with “01 43 39 – Mock Up Requirements”.
- Delete sentence 1.7.2.
- Delete sentence 1.7.3.
- Delete sentence 1.6.
- Renumber 1.7 to 1.6.
- Renumber 1.8 to 1.7.

Section 09 51 13 – Acoustical Panel Ceilings (DTW Update)

- Sentence 1.5.1, delete words “01 45 00 – Quality Control” and replace with “01 43 39 – Mock Up Requirements”.
- Delete sentence 1.5.4.
- Delete sentence 1.5.5.
- Delete sentence 1.7.
- Renumber 1.8 to 1.7.
- Renumber 1.9 to 1.8.
- Renumber 1.10 to 1.9.
- Renumber 1.11 to 1.10.

Section 09 65 16 – Resilient Sheet Flooring (DTW Update)

- Sentence 1.8.1, delete words “01 45 00 – Quality Control” and replace with “01 43 39 – Mock Up Requirements”.
- Delete sentence 1.5.
- Renumber 1.6 to 1.5.
- Renumber 1.7 to 1.6.
- Renumber 1.8 to 1.7.
- Delete sentence 1.8.2.
- Delete sentence 1.8.3.
- Renumber 1.9 to 1.8.
- Renumber 1.10 to 1.9.

Section 09 65 19 – Resilient Tile Flooring (DTW Update)

- Delete sentence 1.6.
- Renumber 1.7 to 1.6.

Section 09 65 20 – Safety Sheet Flooring (DTW Update)

- Sentence 1.8.1, delete words “01 45 00 – Quality Control” and replace with “01 43 39 – Mock Up Requirements”.
- Delete sentence 1.5.
- Renumber 1.6 to 1.5.
- Renumber 1.7 to 1.6.
- Renumber 1.8 to 1.7.
- Delete sentence 1.8.2.
- Delete sentence 1.8.3.
- Renumber 1.9 to 1.8.
- Renumber 1.10 to 1.9.

Section 09 65 21 – Gymnasium Flooring (DTW Update)

- Delete sentence 1.5.
- Renumber 1.6 to 1.5.
- Renumber 1.7 to 1.6.
- Renumber 1.8 to 1.7.
- Renumber 1.9 to 1.8.

Section 09 68 13 – Tile Carpet (DTW Update)

- Rename section to “Tile Carpeting”.
- Delete sentence 1.9.
- Renumber 1.10 to 1.9.
- Renumber 1.11 to 1.10.

Section 09 68 16 – Sheet Carpet (DTW Update)

- Rename section to “Sheet Carpeting”.
- Delete sentence 1.9.
- Renumber 1.10 to 1.9.
- Renumber 1.11 to 1.10.

Section 09 72 16 – Vinyl-Coated Fabric Wall Covering (DTW Update)

- Sentence 1.4.1, delete words “01 45 00 – Quality Control” and replace with “01 43 39 – Mock Up Requirements”.
- Delete sentence 1.4.3.
- Delete sentence 1.4.4.
- Delete sentence 1.7.

Section 09 80 00 – Acoustical Treatment (DTW Update)

- Sentence 1.4.1, delete words “01 45 00 – Quality Control” and replace with “01 43 39 – Mock Up Requirements”.
- Delete sentence 1.4.5.
- Delete sentence 1.4.6.
- Delete sentence 1.6.

Section 09 91 13 – Exterior Painting (DTW Update)

- Sentence 1.3.8.2, delete words “01 45 00 – Quality Control” and replace with “01 43 39 – Mock Up Requirements”.
- Delete sentence 1.3.8.5.
- Delete sentence 1.3.8.6.
- Delete sentence 1.7.
- Renumber 1.8 to 1.7.

- Renumber 1.9 to 1.8.
- Renumber 1.10 to 1.9.

Section 09 91 23 – Interior Painting (DTW Update)

- Sentence 1.7.1, delete words “01 45 00 – Quality Control” and replace with “01 43 39 – Mock Up Requirements”.
- Delete sentence 1.8.
- Renumber 1.9 to 1.8.
- Renumber 1.10 to 1.9.
- Renumber 1.11 to 1.10.

Section 10 21 13.13 – Metal Toilet Compartments (DTW Update)

- Sentence 1.4.1, delete words “01 45 00 – Quality Control” and replace with “01 43 39 – Mock Up Requirements”.
- Delete sentence 1.4.3.
- Delete sentence 1.4.4.

Section 10 28 00 – Toilet and Bath Accessories (DTW Update)

- Delete sentence 1.5.

Section 10 56 13 – Metal Storage Shelving (DTW Update)

- Delete sentence 1.5.

Section 10 56 26.13 – Manual Mobile Shelving Storage (DTW Update)

- Delete sentence 1.6.
- Renumber 1.7 to 1.6.
- Renumber 1.8 to 1.7.
- Renumber 1.9 to 1.8.
- Renumber 1.10 to 1.9.

- Renumber 1.11 to 1.10.
- Renumber 1.12 to 1.11.
- Renumber 1.13 to 1.12.
- Renumber 1.14 to 1.13.
- Renumber 1.15 to 1.14.
- Renumber 1.16 to 1.15.

Section 12 22 00 – Curtains and Drapes (DTW Update)

- Sentence 1.5.1, delete words “01 45 00 – Quality Control” and replace with “01 43 39 – Mock Up Requirements”.
- Delete sentence 1.5.3.

Section 12 59 13 – Panel Hung Component System Furniture (DTW Update)

- Add the following sentence 1.3.4:
 - .4 Provide a mock-up in accordance with requirements of Section 01 43 39 – Mock Up Requirements.
- Renumber 1.3.4 to 1.3.5.
- Renumber 1.3.5 to 1.3.6.
- Delete sentence 1.11.

Section 21 12 00 – Standpipe and Hose Assembly (DTW Update)

- Rename section to “Fire-Suppression Standpipes and Hose Assemblies”.
- Delete sentence 1.2.5 and replace with the following:
 - .5 Section 22 05 00 – Common Work Results for Plumbing.
- Sentence 3.2.2, delete words “23 05 05 – Installation of Pipework” and replace with “22 05 00 – Common Work Results for Plumbing”.

Section 21 13 13 – Wet Pipe Sprinkler Systems (DTW Update)

- Delete sentence 1.2.4 and replace with the following:
.4 Section 22 05 00 – Common Work Results for Plumbing.

Section 21 13 16 – Dry Pipe Sprinkler Systems (DTW Update)

- Delete sentence 1.1.4 and replace with the following:
.4 Section 22 05 00 – Common Work Results for Plumbing.

Section 21 30 00 – Fire Pumps (DTW Update)

- Rename section to “Fire Pumps and Controllers”.
- Delete sentence 1.2.5 and replace with the following:
.5 Section 22 05 00 – Common Work Results for Plumbing.

Section 22 11 18 – Domestic Water Piping – Copper (DTW Update)

- Delete sentence 1.1.10 .

Section 22 11 18.01 – Domestic Water Piping – Plastic (DTW Update)

- Delete sentence 1.1.10.

Section 22 13 16.13 – Sanitary Waste and Vent Piping – Cast Iron and Copper (DTW Update)

- Delete sentence 1.2.3 and replace with the following:
.3 Section 22 05 00 – Common Work Results for Plumbing.

Section 22 13 16.16 – Sanitary Waste and Vent Piping – Plastic (DTW Update)

- Renumber section header to “22 13 16.16”.
- Delete sentence 1.2.3 and replace with the following:
.3 Section 22 05 00 – Common Work Results for Plumbing.

Section 22 13 19 – Drainage Waste and Vent Piping – Corrosion Resistant
(DTW Update)

- Delete section in its entirety and replace with the new section attached.

Section 23 05 00 – Common Work Results for HVAC ***(DTW Update)***

- Delete sentence 1.4.1.1.
- Renumber 1.4.1.2 to 1.4.1.1.
- Renumber 1.4.1.3 to 1.4.1.2.
- Delete sentence 1.4.1.4.
- Renumber 1.4.1.5 to 1.4.1.3.

Section 23 05 05 – Installation of Pipework ***(NMS Update)***

- Renumber Section 23 05 05 to 23 05 15; rename section to “Common Installation Requirements for HVAC Pipework”.

Section 23 05 05 – Selective Demolition for Heating, Ventilation and Air Conditioning (HVAC) ***(NMS Update)***

- Add new Section 23 05 05 – Selective Demolition for Heating, Ventilation and Air Conditioning (HVAC).

Section 23 05 17 – Pipe Welding ***(DTW Update)***

- Delete sentence 1.1.2 and replace with the following:

 .2 Section 23 05 15 - Common Installation Requirements for HVAC Pipework.

Section 23 05 23.01 – Valves – Bronze ***(DTW Update)***

- Delete sentence 1.2.5 and replace with the following:

 .5 Section 23 05 15 - Common Installation Requirements for HVAC Pipework.
- Delete sentence 1.7.1.1.1.
- Delete sentence 1.7.1.1.2.

- Delete sentence 1.7.1.1.3.
- Delete sentence 1.7.1.1.4.
- Renumber 1.7.1.1.5 to 1.7.1.1.1.
- Renumber 1.7.1.1.6 to 1.7.1.1.2.

Section 23 05 23.02 – Valves – Cast Iron (DTW Update)

- Delete sentence 1.2.5 and replace with the following:
 - .5 Section 23 05 15 - Common Installation Requirements for HVAC Pipework.

Section 23 05 23.03 – Valves – Cast Steel (DTW Update)

- Delete sentence 1.2.5 and replace with the following:
 - .5 Section 23 05 15 - Common Installation Requirements for HVAC Pipework.

Section 23 05 23.05 – Butterfly Valves (DTW Update)

- Delete sentence 1.7.1.1.1.
- Delete sentence 1.7.1.1.2.
- Delete sentence 1.7.1.1.3.
- Delete sentence 1.7.1.1.4.
- Renumber 1.7.1.1.5 to 1.7.1.1.1.

Section 23 05 23.06 – Valves – CPVC (DTW Update)

- Delete sentence 1.1.5 and replace with the following:
 - .5 Section 23 05 15 - Common Installation Requirements for HVAC Pipework.
- Delete sentence 1.6.1.1.
- Delete sentence 1.6.1.2.
- Delete sentence 1.6.1.3.

- Delete sentence 1.6.1.4.
- Delete sentence 1.6.1.5.
- Renumber 1.6.1.6 to 1.6.1.1.
- Delete sentence 1.6.1.7

Section 23 11 13 – Facility Fuel-Oil Piping (DTW Update)

- Delete sentence 1.2.5 and replace with the following:
 - .5 Section 23 05 15 - Common Installation Requirements for HVAC Pipework.

Section 23 11 23 – Facility Natural Gas Piping (DTW Update)

- Delete sentence 1.2.6 and replace with the following:
 - .6 Section 23 05 15 - Common Installation Requirements for HVAC Pipework.
- Sentence 3.2.1, delete words “23 05 05 – Installation of Pipework” and replace with “Section 23 05 15 - Common Installation Requirements for HVAC Pipework”.

Section 23 20 12 – Pressure Piping – Plastic (DTW Update)

- Delete sentence 1.2.6 and replace with the following:
 - .6 Section 22 05 00 – Common Work Results for Plumbing.

Section 23 21 13.02 – Hydronic Systems: Steel (DTW Update)

- Delete sentence 1.2.7 and replace with the following:
 - .7 Section 23 05 15 - Common Installation Requirements for HVAC Pipework.
- Sentence 3.1.1, delete words “23 05 05 – Installation of Pipework” and replace with “Section 23 05 15 - Common Installation Requirements for HVAC Pipework”.

Section 23 21 13.33 – Ground-Loop Heat-Pump Piping (DTW Update)

- Delete sentence 1.1.5 and replace with the following:
 - .5 Section 23 05 15 - Common Installation Requirements for HVAC Pipework.

Section 23 21 16 – Steam and Condensate Heating Piping Specialties (DTW Update)

- Delete sentence 1.2.5 and replace with the following:
 - .5 Section 23 05 15 - Common Installation Requirements for HVAC Pipework.

Section 23 23 00 – Refrigerant Piping (DTW Update)

- Delete sentence 1.2.5 and replace with the following:
 - .5 Section 23 05 15 - Common Installation Requirements for HVAC Pipework.
- Sentence 3.2.1, delete words “23 05 05 – Installation of Pipework” and replace with “Section 23 05 15 - Common Installation Requirements for HVAC Pipework”.

Section 23 37 13 – Diffusers, Registers and Grilles (DTW Update)

- Delete sentence 1.8.

Section 23 38 13 – Commercial Kitchen Hoods (DTW Update)

- Delete sentence 1.6.
- Renumber 1.7 to 1.6.
- Renumber 1.8 to 1.7.

Section 25 05 60 – EMCS: Field Installation (DTW Update)

- Delete sentence 1.1.7 and replace with the following:
 - .7 Section 23 05 15 - Common Installation Requirements for HVAC Pipework.

- Sentence 2.1.6, delete words “23 05 05 – Installation of Pipework” and replace with “Section 23 05 15 - Common Installation Requirements for HVAC Pipework”.
- Sentence 3.3.1, delete words “23 05 05 – Installation of Pipework” and replace with “Section 23 05 15 - Common Installation Requirements for HVAC Pipework”.

Section 26 13 01 – Isolating Switches to 15KV (DTW Update)

- Delete sentence 1.5.

Section 26 23 00 – Low Voltage Switchgear (DTW Update)

- Delete sentence 1.8.

Section 26 24 02 – Service Entrance Board (DTW Update)

- Delete sentence 1.7.

Section 26 28 13.01 – Fuses – Low Voltage (DTW Update)

- Delete sentence 1.5.

Section 26 50 00 – Lighting (DTW Update)

- Add the following sentence 1.3.5:
 - .5 Submit product literature for each type of lamp supplied, complete with the mercury content of each lamp.
- Add the following sentence 2.1.8:
 - .8 LED, as indicated.
- Add the following sentence 2.2.5:
 - .5 LED drivers:
 - .1 General requirements:
 - .1 Designed for 10 year operational life while operating at maximum case temperature and 90 percent non-condensing relative humidity.
 - .2 Designed and tested to withstand electrostatic discharges without impairment of performance when tested according to IEC 61000-4-2.
 - .3 UL 8750 recognized or listed as applicable.

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- .4 Complies with IEC 61347-2-13 as applicable.
- .5 Surge Tolerance: Designed and tested to withstand Category A surges of 4,000 V according to IEEE C62.41.2 without impairment of performance.
- .6 Manufactured in a facility that employs ESD reduction practices in compliance with ANSI/ESD S20.20.
- .7 Class A sound rating; inaudible in a 27 dBA ambient.
- .8 No visible change in light output with a variation of plus or minus 10 percent line voltage input.
- .9 Total Harmonic Distortion (THD): Less than 20 percent for loads greater than 25W; complies with ANSI C82.11.
- .10 Drivers to track evenly across multiple lamp lengths and all light levels.
- .11 Configuration tool available to optimize the following for LED fixtures:
 - .1 Light level.
 - .2 Efficacy.
 - .3 Thermal performance.
- .2 3-wire control:
 - .1 Provide integral fault protection to prevent driver failure in the event of a mis-wire.
 - .2 Operate from input voltage of 120 V through 347 V at 60 Hz, or as indicated.
- .3 Product(s):
 - .1 Maximum Inrush Current: Meets NEMA 410 inrush requirements.
 - .2 Constant Current Drivers:
 - .1 Support from 220 mA to 1.4 A to ensure a compatible driver exists.
 - .2 Support LED arrays up to 60W.

Section 28 31 00.01 – Multiplex Fire Alarm System (DTW Update)

- Delete sentence 1.7.1. and replace with the following:
 - .1 Provide the following maintenance materials:
 - .1 Two (2) spare audible signal devices.
 - .2 Two (2) spare visual signal devices.
 - .3 Two (2) spare manual pull stations.
 - .4 Two (2) spare thermal detectors.
 - .5 Two (2) spare smoke detectors.