

**Section 01 35 29.06 – Health and Safety Requirements** *(DTW request)*

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

**Section 01 91 13 – Commissioning (Cx) Requirements** *(DTW request)*

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

**Section 01 91 33 – Commissioning (Cx) Forms** *(DTW request)*

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

**Section 01 91 41 – Commissioning (Cx) Training** *(DTW request)*

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

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

- Sentence 2.3.2.2, delete words “Type O” and replace with “Type N”.
- Sentence 2.3.10.1, delete words “Type O” and replace with “Type N”.

**Section 05 12 23 – Structural Steel for Buildings** *(Consultant request)*

- Sentence 1.3.3, delete instance of words “Owner’s Representative” and replace with “Engineer”.
- Sentence 1.3.4, delete words “Owner’s Representative” and replace with “Engineer”.
- Sentence 1.5.4, delete words “Owner’s Representative” and replace with “Engineer”.

**Section 05 21 00 – Steel Joist Framing** *(NMS Update)*

- Delete sentence 1.2.1.2 and replace with the following:
  - .2 CAN/CSA-S16, Design of Steel Structures.
- Delete sentence 1.2.1.3 and replace with the following:
  - .3 CSA-S136, North American Specification for the Design of Cold Formed Steel Structural Members.
- Delete sentence 1.2.1.5 and replace with the following:

.5 CSA-W55.3, Certification of Companies for Resistance Welding of Steel and Aluminum.

- Delete sentence 1.2.1.7.
- Delete sentence 1.2.3.1.
- Renumber sentence 1.2.3.2 to 12.3.1.
- Delete sentence 1.2.3.3.
- Add the following sentence 1.2.4:

.4 The Master Painters Institute (MPI)  
.1 Architectural Painting Specification Manual.

- Sentence 1.3.2, delete words “Owner’s Representative” and replace with “Engineer”.
- Add the following sentence 2.1.1:

.1 Open web steel joists: to CAN/CSA-S16.

- Renumber 2.1.1 to 2.1.2.
- Renumber 2.1.2 to 2.1.3.
- Renumber 2.1.3 to 2.1.4.
- Renumber 2.1.4 to 2.1.5.
- Sentence 2.2.1, delete words “CSA-S16.1, CSA-S136” and replace with “CAN/CSA-S16”. Delete word “approved”.
- Sentence 2.2.2, delete words “and with CSA-W59S1”.
- Sentence 2.2.6, delete words “and with CSA-W59S1”.
- Sentence 2.3.1, delete word “CAN/CSA-S16.1” and replace with “CAN/CSA-S16.”
- Sentence 3.1.1, delete words “and CSA-S136”.
- Sentence 3.1.2, delete words “and with CSA-W59S1”.

- Delete sentence 3.1.3 and replace with the following:
  - .3 Ensure installers are certified to CSA-W47.1 for fusion welding and/or CSA-W55.3 for resistance welding.
- Add the following sentence 3.6:
  - 3.6 Protection
    - .1 Protect installed products and components from damage during construction.
    - .2 Repair damage to adjacent materials caused by steel joists framing installation.

**Section 05 31 00 – Steel Decking (NMS Update)**

- Delete sentence 1.2.1.2 and replace with the following:
  - .2 CAN/CSA-S16, Design of Steel Structures.
- Delete sentence 1.2.1.3 and replace with the following:
  - .3 CSA-S136, North American Specification for the Design of Cold Formed Steel Structural Members.
- Delete sentence 1.2.1.5 and replace with the following:
  - .5 CSA W55.3, Certification for Companies for Resistance Welding of Steel and Aluminum.
- Sentence 1.3.4, delete words “CAN/CSA-S16.1, Appendix G” and replace with “CAN/CSA-S16”.
- Sentence 1.4.1, delete words “Owner’s Representative” and replace with “Engineer”.
- Add the following 3.6:
  - 3.6 Protection
    - .1 Protect installed products and components from damage during construction.
    - .2 Repair damage to adjacent materials caused by steel decking installation.

**Section 05 50 00 – Metal Fabrications** *(NMS Update)*

- Delete sentence 1.2.1.3
- Renumber 1.2.1.4 to 1.2.1.3
- Delete sentence 1.2.2.1 and replace with the following:
  - .1 CAN/CGSB 1.153, High-Build, Gloss Epoxy Coating.
- Delete sentence 1.2.2.2.
- Delete sentence 1.2.3.3 and replace with the following:
  - .3 CSA S16, Design of Steel Structures.
- Sentence 1.2.3.5, delete words “(Imperial Version)”.
- Delete sentence 1.2.4.1 and replace with the following:
  - .1 CCD-047, Architectural Surface Coatings.
- Add the following 1.2.5:
  - .5 Green Seal Environmental Standards (GS)
    - .1 GS-11, Paints and Coatings.
- Add the following 1.2.6:
  - .6 The Master Painters Institute (MPI)
    - .1 Architectural Painting Specification Manual.
- Delete sentence 2.3.2 and replace with the following:
  - .2 Shop coat primer: in accordance with chemical component limits and restrictions requirements and VOC limits of GS-11.
- Delete sentence 2.3.3 and replace with the following:
  - .3 Zinc primer: zinc rich, ready mix: in accordance with chemical component limits and restrictions requirements and VOC limits of GS-11.
- Sentence 3.1.6, delete words “S16.1” and replace with “S16”.

- Add the following sentence 3.7:

3.7 Protection

- .1 Protect installed products and components from damage during construction.
- .2 damage to adjacent materials caused by metal fabrications installation.

**Section 05 51 29 – Metal Stairs and Ladders** *(NMS Update/ DTW request)*

- Sentence 1.2.2.3, delete words “120/105 ksi” and replace with “830 MPa”.
- Delete sentence 1.2.6 and replace with the following:

.6 Steel Structures Painting Council (SSPC)

- .1 Systems and Specifications Manual, Volume 2.

- Sentence 1.4.2.2, delete words “Owner’s Representative” and replace with “Engineer”.

- Add the following sentence 3.3:

3.3 PROTECTION

- .1 Protect installed products and components from damage during construction.
- .2 Repair damage to adjacent materials caused by metal stairs and ladders installation.

**Section 06 15 00 – Wood Decking** *(NMS Update)*

- Add the following sentence 1.2.1.2:

.2 CAN/CSA O80 Series, Wood Preservation.

- Renumber 1.2.1.2 to 1.2.1.3.
- Sentence 2.1.5, delete word “086” and replace with “080”.

- Add the following sentence 3.5:

3.5 PROTECTION

- .1 Protect installed products and components from damage during construction.
- .2 Repair damage to adjacent materials caused by wood decking installation.

**Section 06 20 00 – Finish Carpentry (NMS Update)**

- Add the following sentence 1.2.1.3:
  - .3 ANSI/HPVA HP-1, American National Standard for Hardwood and Decorative Plywood.
- Delete 1.2.2 and replace with the following:
  - .2 Architectural Woodwork Manufacturers Association of Canada (AWMAC) and Architectural Woodwork Institute (AWI)
- Delete 1.2.2.1 and replace with the following:
  - .1 Architectural Woodwork Quality Standards, 1st edition.
- Delete sentence 1.2.3.
- Renumber 1.2.4 to 1.2.3.
- Renumber 1.2.5 to 1.2.4.
- Delete sentence 1.2.5.2.
- Delete sentence 1.2.6.
- Delete sentence 1.3.1 and replace with the following:
  - .1 Lumber by grade stamp of agency certified by Canadian Lumber Standards Accreditation Board (CLSAB).
  - .2 Plywood, particleboard, OSB and wood based composite panels to CSA and ANSI standards.
  - .3 Wood fire rated frames and panels: listed and labelled by an organization accredited by Standards Council of Canada to CAN4-S104 and CAN/ULC-S105.
- Add the following sentence 2.2.1:
  - .1 Panel materials to be urea-formaldehyde free.
- Renumber 2.2.1 to 2.2.2.

- Renumber 2.2.2 to 2.2.3.
- Renumber 2.2.3 to 2.2.4. Delete words “CSA 0115” and replace with “ANSI/HPVA HP-1”.
- Renumber 2.2.4 to 2.2.5.
- Renumber 2.2.5 to 2.2.6. Delete sentence 2.2.5.1.
- Renumber 2.2.6 to 2.2.7. Delete sentence 2.2.6.1.
- Renumber 2.2.7 to 2.2.8.

**Section 06 40 00 – Architectural Woodwork (NMS Update)**

- Add the following sentence 1.2.1.4:
  - .4 ANSI/NEMA LD-3, High-Pressure Decorative Laminates (HPDL).
- Sentence 2.1.11, delete words “CAN3 A172”.
- Sentence 3.1.6, add words “in accordance with section 07 92 00 – Joint Sealants”.
- Add the following sentence 3.3.2:
  - .2 Protect installed products and components from damage during construction.
- Add the following sentence 3.3.3:
  - .3 Repair damage to adjacent materials caused by architectural woodwork installation.

**Section 07 13 26 – Self Adhered Sheet Waterproofing (DWT Request)**

- Sentence 1.9.1, add the following words “from the date of Substantial Completion”.

**Section 07 21 29.03 – Sprayed Insulation – Polyurethane Foam (DWT Request)**

- Add the following sentence 1.2.1:
  - .1 American Society for Testing and Materials (ASTM)

- .1 ASTM D1621, Standard Test Method for Compressive Properties of Rigid Cellular Plastics.
- .2 ASTM D1622, Standard Test Method for Apparent Density of Rigid Cellular Plastics.
- .3 ASTM D1623, Standard Test Method for Tensile and Tensile Adhesion Properties of Rigid Cellular Plastics.
- .4 ASTM D2842, Standard Test Method for Water Absorption of Rigid Cellular Plastics.
- .5 ASTM E96, Standard Test Methods for Water Vapour Transmission of Materials.
- .6 ASTM E2178, Standard Test Method for Air Permeance of Building Materials.

- Renumber sentence 1.2.1 to 1.2.2.

- Renumber sentence 1.2.2 to 1.2.3.

- Delete sentence 1.4.1 and replace with the following:

- .1 Applicators to conform to CUFCA Quality Assurance Program or a recognized quality and training program.

- Add the following sentence 1.9 Warranty

1.9 Warranty

- .1 Provide a written guarantee, signed and issued in the name of the owner, stating the sprayed polyurethane foam insulation shall remain free from defects in materials and workmanship for a period of one (1) year from the date of Substantial Completion.

- Delete sentence 2.1. and replace with the following:

2.1 Materials

- .1 Insulation: spray polyurethane foam to CAN/ULC-S705.1, thickness and RSI Value as indicated on drawings.
  - .1 Initial thermal resistance: minimum RSI 2.5 per 50 mm.
  - .2 Long term thermal resistance: minimum RSI 2.0 per 50 mm.
  - .3 Density: 28 kg/m<sup>3</sup>, to ASTM D1622.
  - .4 Air barrier properties: to ASTM E2178.
    - .1 @75 Pa: maximum 0.05 L/s.
  - .5 Water Vapour Permeance, to ASTM E96:
    - .1 50 mm thick: maximum 60 ng/(Pa.s.m<sup>2</sup>).
  - .6 Tensile Strength: minimum 200 kPa, to ASTM D1621.



- .7 Flame Spread: to CAN/ULC-S102, in accordance with the latest edition of the National Building Code.
- .8 Water Absorption by volume: maximum 4%, to ASTM D2842.
- .2 Primers: in accordance with manufacturer's recommendations for surface conditions.

**Section 07 27 00.01 – Air Barriers – Descriptive or Proprietary** *(Supplier Request/  
DWT Request)*

- Sentence 1.11.1., add the following words “from the date of Substantial Completion”.
- Add the following sentence 2.4:
  - 2.4 Sheet Membrane Vapour Permeable Air Barrier (Type 4)
    - .1 Self-adhering reinforced modified polyolefin tri-laminate water resistive, vapour permeable, air barrier membrane to the following properties:
      - .1 Weight: 160 g/m<sup>2</sup>
      - .2 Water Vapour Transmission: 202 g/m<sup>2</sup>
      - .3 Tensile Strength: 182N MD and 129N CD
      - .4 Water Vapour Permeance: 1658 ng/Pa.m<sup>2</sup>.s
      - .5 Air Leakage: <0.02 L/s/m<sup>2</sup>
      - .6 Average Dry Breaking Force: 565N MD and 405N CD
- Renumber sentence 2.4 to 2.5.
- Renumber sentence 2.5 to 2.6.
- Rename 2.6 Sealants to 2.6 Accessories
- Add the following sentence 2.6.3:
  - .3 Primer for type 4 Air Barrier: quick setting, synthetic rubber based adhesive aerosol.
- Renumber 2.6 to 2.7.
- Add the following sentence 2.7.4:
  - .4 Type 4 Air Barrier: for installation on any solid surface.

**Section 07 31 13 – Asphalt Shingles** *(DWT Request)*

- Rename section to Fiberglass-Reinforced Asphalt Shingles
- Renumber section to 07 31 13.13
- Sentence 1.1.1, add words “fiberglass reinforced” to asphalt shingles.
- Add the following sentence 1.8 Warranty

1.8 Warranty

.1 Provide a written guarantee, signed and issued in the name of the owner, stating the asphalt shingles shall remain free from defects in materials and workmanship for a period of twenty five (25) years from the date of Substantial Completion.

- Sentence 2.1.1, add words “fiberglass reinforced” to asphalt shingles.
- Sentence 3.2.1, add words “fiberglass reinforced” to asphalt shingles.
- Sentence 3.2.5, add words “fiberglass reinforced” to asphalt shingles.
- Sentence 3.2.6, add words “fiberglass reinforced” to asphalt shingles.

**Section 07 46 13 – Preformed Metal Siding** *(Supplier Request)*

- Delete sentence 2.1.1.1 and replace with the following:

.1 Finish coating: silicone modified polyester (SMP) topcoat system.
- Delete sentence 2.1.1.3 and replace with the following:

.3 Gloss:  $30 \pm 5$ .
- Delete sentence 2.1.2.1 and replace with the following:

.1 Finish coating: silicone modified polyester (SMP) topcoat system.
- Delete sentence 2.1.2.3 and replace with the following:

.3 Gloss:  $30 \pm 5$ .
- Delete sentence 2.1.3.1 and replace with the following:

.1 Finish coating: silicone modified polyester (SMP) topcoat system.

- Delete sentence 2.1.3.3 and replace with the following:

.3 Gloss:  $30 \pm 5$ .

**Section 07 61 00 – Sheet metal Roofing** *(Supplier Request)*

- Delete sentence 2.2.3.1 and replace with the following:

.1 Finish coating: silicone modified polyester (SMP) topcoat system.

**Section 07 62 00 – Sheet metal Flashing and Trim** *(DTW request)*

- Sentence 2.1.1, delete word “0.70 mm” and replace with “0.60 mm”.

**Section 07 62 10 – Eavestrough and Downspouts** *(Consultant Request)*

- Delete sentence 2.1 and replace with the following:

2.1 Materials

- .1 Sheet aluminum 0.72 mm thick. Color as selected by Owner’s Representative.
- .2 Trough size: 125 mm wide.
- .3 Trough Supports: continuous aluminum with a perforated aluminum cover that covers the complete trough to prevent debris from getting stuck in the trough and downpipe.
- .4 Downpipes: 0.72 mm thick aluminum.
- .5 Downpipe straps: 0.72 mm thick aluminum.
- .6 Sealant: As per Section 07 92 00 – Joint Sealants.
- .7 Elbows and tees: aluminum same as trough.

- Delete sentence 2.2.

- Delete sentence 2.3 and replace with the following (renumbered as 2.2):

2.2 Fabrication

- .1 Fabricate sheet aluminum work in accordance with Aluminum Association Aluminum Sheet Metal Work in Building Construction.
- .2 Fabricate eavestrough in continuous length up to a maximum length of 12 metres.
- .3 Form eavestrough to an Ogee profile, 125 mm wide and a 305 mm girth.

- Delete sentence 3.1 and replace with the following:

### 3.1 Installation

- .1 Install trough supports/debris catchers to provide a continuous slope to drain all water from the trough.
- .2 Cut opening in the trough to receive the downpipes.
- .3 Install the trough and snap in to the supports (no exposed screws or nails permitted). Install elbows and tees as required. Provide for expansion joints to prevent warping where required.
- .4 Install aluminum downpipes to a distance of 1.5 metres from the grade. Install aluminum straps 1200 mm o.c designed to match the pipe profile and fasten to building with aluminum or stainless steel screws.
- .5 Install sewer type downpiping from the aluminum downpiping to a point 300 mm above the grade. Install aluminum straps designed to suit the pipe profile and fasten to the wall with aluminum or stainless steel screws.
- .6 Install sealant as required to ensure all joints are watertight.
- .7 When work is completed, provide a water test to ensure there are no leaks and that all the water runs from the trough.

### **Section 07 84 00 – Fire Stopping** *(NMS Update/DTW request)*

- Add the following sentence 1.4:

### 1.4 Definitions

- .1 Fire Stop Material: device intended to close off opening or penetration during fire or materials that fill openings in wall or floor assembly where penetration is by cables, cable trays, conduits, ducts and pipes and poke-through termination devices, including electrical outlet boxes along with their means of support through wall or floor openings.
- .2 Single Component Fire Stop System: fire stop material that has Listed Systems Design and is used individually without use of high temperature insulation or other materials to create fire stop system.
- .3 Multiple Component Fire Stop System: exact group of fire stop materials that are identified within Listed Systems Design to create on site fire stop system.
- .4 Tightly Fitted; (ref: NBC Part 3.1.9.1.1 and 9.10.9.6.1): penetrating items that are cast in place in buildings of noncombustible construction or have "0" annular space in buildings of combustible construction.

- .1 Words "tightly fitted" should ensure that integrity of fire separation is such that it prevents passage of smoke and hot gases to unexposed side of fire separation.

- Renumber 1.4 to 1.5.
- Renumber 1.5 to 1.6.
- Renumber 1.6 to 1.7.
- Add the following sentence 1.8:

1.8 Quality Assurance

.1 Qualifications:

- .1 Installer: person specializing in fire stopping installations with minimum five (5) years documented experience approved by the fire stopping manufacturer.
- .2 Manufacturer: company with minimum 5 years experience in producing of material used for work required for this project, with sufficient production capacity to produce and deliver required units without causing delay in work.

- .2 All fire stopping materials for this project to be supplied by a single manufacturer.

**Section 08 11 00 – Metal Doors and Frames** *(DTW request)*

- Sentence 1.7.1, add the following words “from the date of Substantial Completion”.

**Section 08 11 16 – Aluminum Doors and Frames** *(NMS Update)*

- Delete sentence 1.2.1 and replace with the following:

.1 American Architectural Manufacturers Association (AAMA)

- .1 AAMA 609/610, Cleaning and Maintenance Guide for Architecturally Finished Aluminum.

- Sentence 1.2.3.1, delete word “Primer” and replace with “Anticorrosive”. Delete words “Oil Alkyd Type” and replace with “Alkyd Primer”.
- Sentence 1.6.1, add the following words “from the date of Substantial Completion”.

- Add the following sentence 3.6:

3.6 Protection

- .1 Protect installed products and components from damage during construction.
- .2 Repair damage to adjacent materials caused by aluminum door and frame installation.

**Section 08 33 13 – Coiling Counter Doors** *(NMS Update)*

- Delete sentence 1.2.2.1 and replace with the following:
  - .1 AAMA 609/610, Cleaning and Maintenance Guide for Architecturally Finished Aluminum.
- Delete sentence 1.2.4.1 and replace with the following:
  - .1 CAN/CGSB 1.198, Cementitious Primer for Galvanized Surfaces.
- Delete sentence 1.2.6.1 and replace with the following:
  - .1 NFPA 80, Standard for Fire Doors and Other Opening Protectives.
- Delete sentence 1.2.7.1 and replace with the following:
  - .1 CAN4-S104, Standard Method for Fire Tests of Door Assemblies.
- Delete sentence 1.2.7.2 and replace with the following:
  - .2 CAN/ULC-S105, Standard Specification for Fire Door Frames.
- Sentence 1.5.1, delete word “CAN4” and replace with “CAN/ULC”.
- Sentence 2.2.3, delete words “1200 mm wide x 1400 mm thick” and replace with “45 mm x 13 mm”.
- Delete sentence 3.2.1 and replace with the following:
  - .1 Perform cleaning of aluminum components in accordance with AAMA 609/610.

**Section 08 36 13.02 – Section Metal Doors** *(DTW request)*

- Sentence 1.7.1, add the following words “from the date of Substantial Completion”.

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

- Sentence 1.9.1, add the following words “from the date of Substantial Completion”.

**Section 08 51 13 – Aluminum Windows** *(DTW request)*

- Sentence 1.6.1, add the following words “from the date of Substantial Completion”.

**Section 08 53 13 – Vinyl Windows** *(DTW request)*

- Sentence 1.5.1, add the following words “from the date of Substantial Completion”.

**Sentence 08 54 13 – Fibreglass Windows** *(DTW request)*

- Sentence 1.5.1, add the following words “from the date of Substantial Completion”.

**Section 08 70 05 – Cabinet and Miscellaneous hardware** *(NMS Update)*

- Delete 1.2.1 and replace with the following:
  - .1 American National Standards Institute (ANSI) / Builders Hardware Manufacturers Association (BHMA)
    - .1 ANSI/BHMA A156.9, Cabinet Hardware.
    - .2 ANSI/BHMA A156.11, Cabinet Locks.
    - .3 ANSI/BHMA A156.16, Auxiliary Hardware.
    - .4 ANSI/BHMA A156.18, Materials and Finishes.
- Sentence 2.2.1, delete words “CAN/CGSB-69.25” and replace with “ANSI/BNMA A156.9”.
- Sentence 2.2.2, delete words “CAN/CGSB-69.27” and replace with “ANSI/BNMA A156.11”.

**Section 08 71 00 – Door Hardware** *(NMS Update)*

- Delete sentence 1.2.1 and replace with the following:
  - .1 American National Standards Institute (ANSI) / Builders Hardware Manufacturers Association (BHMA)

- .1 ANSI/BHMA A156.1, American National Standard for Butts and Hinges.
- .2 ANSI/BHMA A156.2, Bored and Preassembled Locks and Latches.
- .3 ANSI/BHMA A156.3, Exit Devices.
- .4 ANSI/BHMA A156.4, Door Controls - Closers.
- .5 ANSI/BHMA A156.5, Auxiliary Locks and Associated Products.
- .6 ANSI/BHMA A156.6, Architectural Door Trim.
- .7 ANSI/BHMA A156.8, Door Controls - Overhead Stops and Holders.
- .8 ANSI/BHMA A156.12, Interconnected Locks and Latches.
- .9 ANSI/BHMA A156.13, Mortise Locks and Latches Series 1000.
- .10 ANSI/BHMA A156.14, Sliding and Folding Door Hardware.
- .11 ANSI/BHMA A156.15, Release Devices - Closer Holder, Electromagnetic and Electromechanical.
- .12 ANSI/BHMA A156.16, Auxiliary Hardware.
- .13 ANSI/BHMA A156.17, Self-closing Hinges and Pivots.
- .14 ANSI/BHMA A156.18, Materials and Finishes.
- .15 ANSI/BHMA A156.19, Power Assist and Low Energy Power - Operated Doors.

- Delete sentence 1.2.2 and replace with the following:

- .2 Canadian Steel Door and Frame Manufacturers' Association (CSDFMA)
  - .1 CSDFMA Recommended Dimensional Standards for Commercial Steel Doors and Frames.

- Sentence 2.2.1.1, delete words “CAN/CGSB-69.17” and replace with “ANSI/BHMA A156.2”.
- Sentence 2.2.1.2, delete words “CAN/CGSB-69.29” and replace with “ANSI/BHMA A156.3”.
- Sentence 2.2.2.1, delete words “CAN/CGSB-69.18” and replace with “ANSI/BHMA A156.1”.
- Sentence 2.2.3.1, delete words “CAN/CGSB-69.19” and replace with “ANSI/BHMA A156.3”.
- Sentence 2.2.4.1, delete words “CAN/CGSB-69.20” and replace with “ANSI/BHMA A156.4”.
- Sentence 2.2.5.1, delete words “CAN/CGSB-69.26” and replace with “ANSI/BHMA A156.10”.



- Sentence 2.2.6, delete words “CAN/CGSB-69.21” and replace with “ANSI/BHMA A156.5”.
- Sentence 2.2.7, delete words “CAN/CGSB-69.22” and replace with “ANSI/BHMA A156.6”.
- Sentence 2.2.8, delete words “CAN/CGSB-69.32” and replace with “ANSI/BHMA A156.16”.
- Sentence 2.3, delete words “CAN/CGSB-69.21” and replace with “ANSI/BHMA A156.5”.

**Section 08 80 50 – Glazing (NMS Update/DTW request)**

- Delete sentence 1.2.5 and replace with the following:
  - .5 Glass Association of North American (GANA)
    - .1 GANA Glazing Manual.
    - .2 GANA Laminated Glazing Reference Manual.
- Delete sentence 1.2.6.
- Sentence 1.3.1.2, delete word “E330n” and replace with “E330”.
- Delete sentence 1.5.1 and replace with the following:
  - .1 Perform work in accordance with GANA Glazing Manual and Laminated Glazing Reference Manual for glazing installation methods. Sentence 1.7.1, add the following words “from the date of Substantial Completion”.
- Delete sentence 3.4.1 and replace with the following:
  - .1 Perform work in accordance with GANA Glazing Manual and GANA Laminated Glazing Reference Manual for glazing installation methods.
- Delete sentence 3.5.1 and replace with the following:
  - .1 Perform work in accordance with GANA Glazing Manual and GANA Laminated Glazing Reference Manual for glazing installation methods.
- Add the following sentence 3.8.2:
  - .2 Repair damage to adjacent materials caused by glazing installation.

**Section 09 21 16 – Gypsum Board Assemblies (NMS Update)**

- Delete sentence 1.2.1.1.
- Renumber 1.2.1.2 to 1.2.1.1.
- Renumber 1.2.1.3 to 1.2.1.2.
- Delete 1.2.1.4.
- Renumber 1.2.1.5 to 1.2.1.3.
- Delete 1.2.1.6.
- Renumber 1.2.1.7 to 1.2.1.4.
- Renumber 1.2.1.8 to 1.2.1.5.
- Renumber 1.2.1.9 to 1.2.1.6.
- Add the following sentence 1.2.1.7:
  - .7     ASTM C1280, Standard Specification for Application of Gypsum Sheathing.
- Add the following sentence 1.2.1.8:
  - .8     ASTM C1177/C1177M, Standard Specification for Glass Mat Gypsum Substrate for Use as Sheathing.
- Add the following sentence 1.2.1.9:
  - .9     ASTM C1178/C1178M, Standard Specification for Glass Mat Water-Resistant Gypsum Backing Board.
- Add the following sentence 1.2.1.10:
  - .10    ASTM C1396/C1396M, Standard Specification for Gypsum Wallboard.
- Sentence 1.2.2, delete word “(AWEI)” and replace with “(AWCI)”.
- Add the following sentence 1.2.2.1:
  - .1     AWCI Levels of Gypsum Board Finish.
- Sentence 2.1.1, delete words “C36/C36M” and replace with “C1396/C1396M”.

- Sentence 2.1.2, delete words “moisture and mold resistant board” and replace with “Glass mat water-resistant gypsum board”. Delete words “ASTM C36/C36M”. Delete words “C1177/C1177M” and replace with “C1178/C1178M”.
- Sentence 2.1.12, delete word “07 92 10” and replace with “07 92 00”.
- Sentence 2.1.14, delete word “Type 1”, and replace with “Type 2”.
- Add the following sentence 3.1.2:
  - .2 Do application of gypsum sheathing to ASTM C1280.
- Renumber 3.1.2 to 3.1.3.
- Renumber 3.1.3 to 3.1.4.
- Renumber 3.1.4 to 3.1.5.
- Renumber 3.1.5 to 3.1.6.
- Renumber 3.1.6 to 3.1.7.
- Renumber 3.1.7 to 3.1.8.
- Renumber 3.1.8 to 3.1.9.
- Renumber 3.1.9 to 3.1.10.
- Renumber 3.1.10 to 3.1.11.
- Renumber 3.1.11 to 3.1.12.
- Sentence 3.2.2, delete words “single, double” and replace with “single/double”.

**Section 09 65 19 – Resilient Tile Flooring** *(Supplier Request)*

- Sentence 2.1.3, delete words “Environmentally Friendly Vile Tile (EFVT)” and replace with “Linoleum Tile”.
- Sentence 2.1.3, delete word “3.0 mm and replace with “2.0”.
- Sentence 3.5.2, delete words “Apply two coats of floor wax.”

**Section 09 65 22 – Seamless Flooring** (DTW request)

- Sentence 1.6.1, delete words “final completion certificate” and replace with “Substantial Completion”.

**Section 09 68 00 – Carpeting** (DTW request)

- Sentence 1.11.1, add the following words “from the date of Substantial Completion”.

**Section 10 11 16 – Markerboards** (Supplier Request)

- Sentence 2.1.3, delete words “0.378 mm thickness” and replace with “0.40 mm thickness”.
- Sentence 2.1.5, delete words “0.41 mm” and replace with “0.20 mm”.
- Sentence 2.2.2, delete words “cork insert” and replace with “black vinyl insert”.
- Sentence 2.4.2, delete words “0.378 mm thick” and replace with “0.40 mm thick; delete words “0.41 mm thick backing” and replace with “0.20 mm thick backing”.
- Delete sentence 2.5.2 and replace with the following:
  - .2 Surface finish for dry erasable markers: white colour.
- Delete sentence 2.5.3.1 and replace with the following:
  - .1 Surface finish for dry erasable markers: white colour.

**Section 10 28 10 – Toilet and Bath Accessories** (Supplier Request)

- Sentence 2.2.2, delete the words “chrome plated steel cabinet” and replace with “stainless steel cabinet”.
- Delete sentence 2.2.3 and replace with the following:
  - .3 Combination towel dispenser/waste receptacle: recessed wall unit, approximately 330 mm wide, 1400 mm high, 92 mm deep. Interior of 0.8 mm galvanized steel, exterior of 0.8 mm stainless steel. Suitable for dispensing folded paper towels. Removable rigid molded plastic waste receptacle, lockable access door with continuous full height stainless steel hinge.
- Delete sentence 2.2.17.

- Renumber 2.2.18 to 2.2.17.
- Renumber 2.2.19 to 2.2.18.

**Section 12 59 13 – Panel Hung Component Systems Furniture (DTW request)**

- Sentence 1.5.1, delete words “Certificate of Final Performance” and replace with “of Substantial Completion”.
- Sentence 1.5.3, delete words “Final Performance” and replace with “Substantial Completion”.

**Section 14 43 21 – Platform Lift – Hydraulic (DTW request)**

- Sentence 1.7.1, delete words “Final Completion Certificate” and replace with “Substantial Completion”.

**Section 21 12 01 – Standpipe and Hose Assembly (DTW request)**

- Delete sentence 1.3 and replace with the following:

1.3 References

- .1 American Society for Testing and Materials (ASTM)
  - .1 ASTM A-536, Standard Specification for Ductile Iron Castings.
- .2 Canadian Environmental Protection Act (CEPA)
- .3 Canadian Standards Association (CSA)
  - .1 CSA B242.2, Groove and Shoulder Type Mechanical Pipe Couplings.
- .4 Health Canada/Workplace Hazardous Materials Information System (WHMIS)
  - .1 Material Safety Data Sheets (MSDS).
- .5 National Fire Protection Association (NFPA)
  - .1 NFPA 14, Standard for the Installation of Standpipe and Hose Systems.
- .6 Transportation of Dangerous Goods Act (TDGA)

- Add the following sentence 2.1.2.3:

.3 All grooved products to be of one manufacturer.

- Add the following sentence 2.1.2.4:

.4 Grooved couplings and fittings to be manufactured from ductile iron conforming to ASTM A-536.

- Add the following sentence 2.1.2.5:
  - .5 Joints in roll-grooved piping to be accomplished utilizing rigid style ductile iron couplings with flush seal EPDM gaskets, unless otherwise indicated.
- Add the following sentence 2.1.2.6:
  - .6 Roll-grooved couplings for copper tube to be roll grooved to CSA B242.2, rigid style coupling rated at 2065 kPa for sizes NPS 2 to 4.

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

- Add the following sentence 1.2.2:
  - .1 American Society for Testing and Materials (ASTM)
    - .1 ASTM A-234, Standard Specification for Piping Fittings for Wrought Carbon Steel and Alloy Steel for Moderate and High Temperature Service.
    - .2 ASTM A-536, Standard Specification for Ductile Iron Castings.
- Renumber 1.2.2 to 1.2.3.
- Renumber 1.2.3 to 1.2.4.
- Add the following sentence 1.8 Warranty
  - 1.8 Warranty
    - .1 Provide a written guarantee, signed and issued in the name of the owner, against defective materials and workmanship for a period of one (1) year from the date of Substantial Completion.
- Sentence 2.1.2.2, add to end of sentence words “or roll grooved”.
- Add the following sentence 2.1.2.3:
  - .3 Fittings:
    - .1 Roll grooved steel pipe:
      - .1 Branch outlets to be accomplished utilizing Mechanical-T branch connectors with locating collar engaging into hole. Provide Grade ‘E’ standard pressure-responsive gasket or o-rings for sealing purposes. Branch outlet connection to be either roll-grooved of female threaded to match branch piping.

- .2 Sprinkler head connections, branch connections, drop nipples and sprigs shall be made with hole cut outlet-T with female thread outlet connections with locating collar engaging into hole. Provide Grade 'E' standard pressure responsive gasket.
  - .3 Pipe fittings such as 90° elbow, 45° elbow, straight tees, etc., shall be of ductile iron to ASTM A-536 or forged steel to ASTM A-234 with grooved or shouldered ends for direct connection into grooved piping systems with steel pipe.
  - .4 Stainless steel braided flexible hose with branch line nipples. Size NPS 1/2 and 3/4, FM Approved, rated at 1375 kPa, light weight, pre-assembled mounting bracket for T-Bar ceiling.
- Add the following sentence 2.1.3.4:
    - .4 Grooved butterfly valves NPS 2 1/2 to NPS 10.
      - .1 Ductile iron body to ASTM A-536 coated with a polyphenylene sulphide blend.
      - .2 Disc of ductile iron to ASTM A-536 with EPDM coating providing bubble tight shut off.
      - .3 Grooved ends for installation in grooved steel piping system.
      - .4 Suitable for 2000 kPa working pressure.
      - .5 Provide complete with two single pole, double throw supervisory switches pre-wired monitoring the open position, in weatherproof housing.
      - .6 Manual gear operator.
      - .7 To be utilized in field piping NPS 2 1/2 to NPS 10.
  - Renumber 2.1.3.4 to 2.1.3.5.
  - Add the following sentence 2.1.3.6:
    - .6 Grooved check valves:
      - .1 Ductile iron body to ASTM A-536.
      - .2 Single disc, spring loaded check valve suitable for anti-hammer service.
      - .3 Provide valve drilled, tapped and plugged downstream for drainage outlet.
      - .4 Grade 'E' EPDM Deal.
      - .5 Grooved ends for installation in grooved steel piping systems.
      - .6 Pressure rated up to 1725 kPa.
  - Renumber 2.1.3.5 to 2.1.3.7.
  - Add the following sentence 2.1.3.8:

- .8 Valves NPS 1 to NPS 2, threaded or grooved.
  - .1 Ductile iron body to ASTM A-536, painted.
  - .2 Type 316 stainless steel ball.
  - .3 Grooved ends for installation in grooved steel piping systems.
  - .4 Suitable for 2400 kPa working pressure.
  - .5 Provide with double pole, double throw supervisory switch, pre-wired monitoring the open position, in weatherproof housing.
  - .6 Manual gear operator.

- Renumber 2.1.3.6 to 2.1.3.9.

**Section 21 23 00 – Wet Chemical Fire Extinguishing Systems (DTW request)**

- Add the following sentence 1.6:

1.6 Training

- .1 Provide training in accordance with Section 01 91 41 – Commissioning (Cx) Training.

**Section 22 07 19 – Plumbing Piping Insulation (DTW request)**

- Sentence 3.6.1, add the following words “insulate vent pipes 3.0 m from roof penetration.”
- Add the following to table listed in Sentence 3.6.6

Vent Pipe Plumbing	A-3	25	25	25	25	25	25
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**Section 22 11 18 – Domestic Water Piping Copper (DTW request)**

- Add the following sentence 1.6 Warranty

1.6 Warranty

- .1 Provide a written guarantee, signed and issued in the name of the owner, against defective materials and workmanship for a period of one (1) year from the date of Substantial Completion.

- Delete sentence 2.2.6 and replace with the following:

- .6 NPS 1 ½ and under: Cast copper, ANSI/ASME B16.18 or wrought copper, ANSI/ASME B16.22; with 301 stainless steel internal components, EPDM seal, and push-to-connect or press fit joints, for hard drawn copper tube type L or K, rated for 1300 kPa at ASTM B88.



**Section 22 15 00 – General Service Compressed Air Systems (DTW request)**

- Add the attached new section 22 15 00 – General Service Compressed Air Systems.

**Section 22 42 01 – Plumbing Specialties and Accessories (DTW request)**

- Add the following sentence 1.7 Warranty

## 1.7 Warranty

- .1 Provide a written guarantee, signed and issued in the name of the owner, against defective materials and workmanship for a period of one (1) year from the date of Substantial Completion.

- Sentence 2.1.1.1, delete words “Type 1” and replace with “FD-1”.
- Sentence 2.1.1.1.1, add the following word “Watts”.
- Sentence 2.1.1.2, delete words “Type 2” and replace with “FD-2”.
- Sentence 2.1.1.2.1, add the following word “Watts”.
- Sentence 2.1.1.3, delete words “Type 3” and replace with “FD-3”.
- Sentence 2.1.1.3.1, add the following word “Watts”.
- Sentence 2.1.1.4, delete words “Type 4” and replace with “FD-4”.
- Sentence 2.1.1.4.1, add the following word “Watts”.
- Sentence 2.2.1, delete words “Type 1” and replace with RD-1
- Sentence 2.2.1.1, add the following word “Watts”.
- Sentence 2.2.2, delete words “Type 2” and replace with “RD-2”.
- Sentence 2.2.2.1, add the following word “Watts”.
- Sentence 2.2.3, delete words “Type 3” and replace with “RD-3”.
- Sentence 2.2.3.1, add the following word “Watts”.
- Sentence 2.2.4, delete words “Type 4” and replace with “RD-4”.

- Sentence 2.2.4.1, add the following word “Watts”.
- Sentence 2.3.1.1, add the following word “Watts”.
- Sentence 2.4.2, delete words “Zum Z-1300-4-5” and replace with “Zurn Z-1300-PB-WC”; add the following word “Watts”.
- Sentence 2.5.2, add the following word “Watts”.
- Delete sentence 2.6.3 and replace with the following:
  - .3 Application: install on domestic cold water supply to electrode steam humidifier, emergency eyewash and drench shower.
- Sentence 2.12.3, add to the end of sentence “pulse output or 4-20 mA current output”.
- Delete sentence 2.15.3 and replace with the following:
  - .3 Provide internal or external flow control for field installation. External flow control with orifice sized to suit rated flow as outlined above. External flow control to have inlet/outlet connections as indicated.
- Sentence 2.15.6, add the following word “Watts”.
- Sentence 2.19.2, add the following words “Lawler”.

**Section 22 42 03 – Commercial Washroom Fixtures (DTW request)**

- Add the following to sentence 1.7.1:

“Kohler”
- Add the following sentence 1.8 Warranty
  - 1.8 Warranty
    - .1 Provide a written guarantee, signed and issued in the name of the owner, against defective materials and workmanship for a period of one (1) year from the date of Substantial Completion.

**Section 22 42 16 – Commercial Lavatories and Sinks (DTW request)**

- Add the following to sentence 1.7.1:

“Zurn”

- Add the following sentence 1.8 Warranty

1.8 Warranty

- .1 Provide a written guarantee, signed and issued in the name of the owner, against defective materials and workmanship for a period of one (1) year from the date of Substantial Completion.

**Section 22 42 20 – Commercial Showers and Bathtubs** (DTW request)

- Add the following to sentence 1.7.1:

“Kohler”

- Add the following sentence 1.8 Warranty

1.8 Warranty

- .1 Provide a written guarantee, signed and issued in the name of the owner, against defective materials and workmanship for a period of one (1) year from the date of Substantial Completion.

- Sentence 2.4.1.5, delete word “Ficet” and replace with “Fiat”.

**Section 22 47 00 – Drinking Fountains and Water Coolers** (DTW request)

- Add the following sentence 1.7 Warranty

1.7 Warranty

- .1 Provide a written guarantee, signed and issued in the name of the owner, against defective materials and workmanship for a period of one (1) year from the date of Substantial Completion.

- Sentence 2.2.1, add words “meets Newfoundland and Labrador Buildings Accessibility Act and Regulations for side approach”.
- Sentence 2.2.1.1, delete words “trap, in line strainer” and replace with “filter”.
- Sentence 2.2.2.1, delete word “trap”.

**Section 23 05 05 – Installation of Pipework** (DTW request)

- Add the following sentence 3.1.2.1:
  - .1 Unions are not required in installations using grooved mechanical couplings (The couplings shall serve as unions).
- Add the following sentence 3.1.4:
  - .4 The flexible type grooved joint couplings may be used in lieu of a flexible connector at equipment connections for vibration attenuation and stress relief. Couplings shall be placed in close proximity to the source of the vibration, as per manufacturer's recommendations.
- Delete the title of sentence 3.5 and replace with the following:

“DIELECTRIC WATERWAY FITTINGS AND COUPLINGS”
- Delete sentence 3.5.3 and replace with the following:
  - .3 NPS 2 and under: Isolating waterway fittings, unions or bronze valves.
- Add the following sentence 3.5.3.1:
  - .1 Waterway fittings shall be complete with thermoplastic liner.
- Delete sentence 3.5.4 and replace with the following:
  - .4 Over NPS 2: Isolating waterway fittings and flanges.
- Add the following sentence 3.5.4.1:
  - .1 Waterway fittings shall be complete with thermoplastic liner.
- Add the following sentence 3.6.3 and 3.6.4:
  - .3 Grooved joint couplings and fittings shall be installed in accordance with the manufacturer's written installation instructions.
    - .1 Gaskets shall be verified as suitable for the intended service prior to installation. Gaskets shall be molded and produced by the coupling manufacturer.
    - .2 The grooved coupling manufacturer's factory trained representative shall provide on-site training for contractor's field personnel in the use of grooving tools, application of groove, and installation of grooved joint products. The manufacturer's representative shall periodically visit the jobsite and review

installation. Contractor shall remove and replace any joints deemed improperly installed.

- .4 Push-to-connect piping: Prepare copper tube and install in strict accordance with installation instructions. Pipe ends shall be cleaned, free from indentations, projections, burrs and foreign matter. Use a tube preparation tool as supplied by the manufacturer to clean and make installation mark. Push copper tube into fittings to installation depth mark, per installation instructions. Keep fittings free of dirt and oil.

- Renumber 3.6.3 to 3.6.5.
- Renumber 3.6.4 to 3.6.6.
- Renumber 3.6.5 to 3.6.7.
- Renumber 3.6.6 to 3.6.8.
- Renumber 3.6.7 to 3.6.9.
- Renumber 3.6.8 to 3.6.10.
- Renumber 3.6.9 to 3.6.11.
- Renumber 3.6.10 to 3.6.12.
- Renumber 3.6.11 to 3.6.13.
- Renumber 3.6.12 to 3.6.14.
- Renumber 3.6.13 to 3.6.15.
- Renumber 3.6.14 to 3.6.16.
- Renumber 3.6.15 to 3.6.17.
- Renumber 3.6.16 to 3.6.18.

**Section 23 05 93 – Testing, Adjusting and Balancing for HVAC (DTW request)**

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

**Section 23 07 19 – HVAC Piping Insulation (DTW request)**

- Sentence 3.6.1, add the following words “Insulate vent pipes 3.0 m from roof penetration.”
- Add the following to table listed in Sentence 3.6.6

Vent Pipe Steam	A-3	38	65	65	75	90	90
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**Section 23 38 13 – Commercial Kitchen Hoods** (DTW request)

- Add the following sentence 1.8:

1.8 Training

.1 Provide training in accordance with Section 01 91 41 –  
Commissioning (Cx) Training.

**Section 23 72 00 – Air-to-Air Energy Recovery Equipment** (DTW request)

- Add the following new section 23 72 00 – Air-to-Air Energy Recovery Equipment

**Section 23 72 15 – Heat Recovery Ventilator** (DTW request)

- Add the following new section 23 72 15 – Heat Recovery Ventilator

**Section 23 73 10 – Air Handling – Built-Up** (DTW request)

- Add the following sentence 1.7:

1.7 Training

.1 Provide training in accordance with Section 01 91 41 –  
Commissioning (Cx) Training.

**Section 23 73 11 – Air Handling Units – Packaged** (DTW request)

- Add the following sentence 1.1.8:

.8 Section 23 72 00 – Air-to-Air Energy Recovery Equipment

- Renumber 1.1.8 to 1.1.9.

**Section 23 81 43 – Water to Air Source Unitary Heat Pumps** (DTW request)

- Add the following sentence 1.5:

1.5 Training

- .1 Provide training in accordance with Section 01 91 41 – Commissioning (Cx) Training.

**Section 23 81 46 – Water to Water Source Unitary Heat Pumps (DTW request)**

- Sentence 1.4.1, add the following words “from the date of Substantial Completion”.
- Add the following sentence 1.5:

1.5 Training

- .1 Provide training in accordance with Section 01 91 41 – Commissioning (Cx) Training.

**Section 26 27 26 – Wiring Devices (DTW request)**

- Sentence 2.1.2.5, delete word “Ivory” and replace with “White”.
- Sentence 2.2.1.1, delete word “Ivory” and replace with “White”.
- Sentence 2.2.2.1, delete word “Ivory” and replace with “White”.
- Sentence 2.5.4, delete words “Nylon ivory” and replace with “White”.
- Add the following sentence 2.5.8:
  - .8 All wiring device cover plates to be labeled using clear adhesive strips with black type identifying panel and circuit number for each device.

**Section 27 54 01 - Sustainability Management System Public Interface (Windows on the World) (DTW request)**

- Add the following sentence 1.6:

1.6 Training

- .1 Provide training in accordance with Section 01 91 41 – Commissioning (Cx) Training.

- Add the following sentence 1.7:

## 1.7 Closeout Submittals

- .1 Provide operation and maintenance data for public interface systems for incorporation into manual specified in Section 01 78 00 - Closeout Submittals.

**Section 32 11 16.01 – Granular Sub-Base** *(Consultant Request/DTW request)*

- Delete sentence 2.1.1.2.1 and replace with the following:

- .1 Granulation to:

<u>Sieve Designation</u>	<u>% Passing (Base (Type 2))</u>
100 mm	-
75 mm	-
50 mm	75-100
38.1 mm	-
25 mm	-
19 mm	-
15.9 mm	45-80
12.5 mm	-
9.5 mm	-
4.75 mm	25-55
2.00 mm	-
1.20 mm	12-35
0.425 mm	-
0.180 mm	-
0.075 mm	3-6

**Section 32 11 23 – Aggregate Base Course** *(Consultant Request/DTW request)*

- Delete sentence 2.1.1.2.1 and replace with the following:

- .1 Granulation to:

<u>Sieve Designation</u>	<u>% Passing (Base (Type 1))</u>
200 mm	-
75 mm	-
50 mm	-
38.1 mm	-
25 mm	-
19 mm	100
15.9 mm	-
12.5 mm	-
9.5 mm	55-80
4.75 mm	35-60
2.00 mm	-



1.20 mm	17-35
0.425 mm	-
0.180 mm	-
0.075 mm	3-6

**Section 32 12 16.02 – Asphalt Paving for Building Sites** (*Consultant Request/DTW request*)

- Delete sentence 1.3.1.4.
- Delete sentence 1.3.1.5.
- Add the following sentence 1.3.2:
  - .2 American Association of State Highway and Transportation Officials (AASHTO)
    - .1 AASHTO M320 - Standard Specification for Performance Grade Asphalt Binder.
- Renumber 1.3.2 to 1.3.3.
- Add the following sentence 1.3.3.9:
  - .9 ASTM D977 – Standard Specification for Emulsified Asphalt.
- Renumber 1.3.3.9 to 1.3.3.10.
- Renumber 1.3.3.10 to 1.3.3.11.
- Renumber 1.3.3.11 to 1.3.3.12.
- Renumber 1.3.3.12 to 1.3.3.13.
- Renumber 1.3.3.13 to 1.3.3.14.
- Renumber 13.3 to 1.3.4.
- Delete sentence 2.1.1.3 and replace with the following:

.3 Table:

Sieve Designation	Granular Base	Granular Sub-Base
200 mm	-	-
75 mm	-	-
50 mm	-	75-100
38.1 mm	-	-
25 mm	-	-

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19 mm	100	-
15.9 mm	-	45-80
12.5 mm	-	-
9.5 mm	55-80	-
4.75 mm	35-60	25-55
2.00 mm	-	-
1.20 mm	17-35	12-35
0.475 mm	-	-
0.180 mm	-	-
0.075 mm	3-6	3-6

- Delete sentence 2.1.4 and replace with the following:

.4 Asphalt cement: to AASHTO M320.

- Delete sentence 2.1.5 and replace with the following:

.5 Asphalt Prime: to ASTM D997.

- Delete sentence 2.1.7 and replace with the following:

.7 Asphalt tack coat: to ASTM D977.

### **Section 33 21 00 – Water Supply Wells (DTW request)**

- Add the following new section 33 21 00 – Water Supply Wells

### **Section 33 56 13 – Aboveground Fuel Storage Tanks (DTW request)**

- Sentence 2.1.2.1, delete words “360° secondary containment” and replace with “300°-360° secondary containment”.

### **Section 33 65 47 – Geothermal Vertical Borehole Heat Exchanger (DTW request)**

- Sentence 1.7.1.1, add the following words “from the date of Substantial Completion”.
- Sentence 1.7.2.1, add the following words “from the date of Substantial Completion”.

**Web Site General Update**

- Updated DTW Master Commissioning Plan added to web site  
<http://www.tw.gov.nl.ca/works/comm.html>