

General (DTW Request)

- Delete all references to manufacturer's product names in all technical sections from Division 1 to Division 44. (Specifically sections listed below)
 - Section 07 95 13 – Expansion Joint Cover Assemblies
 - Section 08 33 13 – Coiling Counter Doors
 - Section 11 11 13.01 – Compressed Air Systems
 - Section 11 11 13.02 – Vehicle Exhaust Hose Reel System
 - Section 11 11 13.03 – Waste Oil Disposal System
 - Section 14 42 13 – Inclined Wheelchair Lifts
 - Section 14 42 16 – Vertical Wheelchair Lifts
 - Section 14 43 21 – Platform Lift – Hydraulic
 - Section 22 07 16 – Plumbing Equipment Insulation
 - Section 22 10 10 – Plumbing Pumps
 - Section 22 30 05 – Domestic Water Heaters
 - Section 22 42 01 – Plumbing Specialties and Accessories
 - Section 22 42 03 – Commercial Washroom Fixtures
 - Section 22 42 16 – Commercial Lavatories and Sinks
 - Section 22 42 20 – Commercial Showers and Bathtubs
 - Section 23 05 19.01 – Thermometers and Pressure Gauges – Piping Systems
 - Section 23 05 23.01 – Valves – Bronze
 - Section 23 05 23.02 – Valves – Cast Iron
 - Section 23 05 23.03 – Valves – Cast Steel
 - Section 23 05 48 – Vibration and Seismic Controls for HVAC Piping and Equipment
 - Section 23 07 16 – HVAC Equipment Insulation
 - Section 23 20 12 – Pressure Piping – Plastic
 - Section 23 21 14 – Hydronic Specialties
 - Section 23 21 23 – Hydronic Pumps
 - Section 23 25 00 – HVAC Water Treatment Systems
 - Section 23 21 13.01 – Metal Ducts – Low Pressure to 500 Pa
 - Section 23 34 00 – HVAC Fans
 - Section 23 34 25 – Packaged Roof and Wall Exhausters
 - Section 23 36 00 – Air Terminal Units
 - Section 23 37 13 – Diffusers, Registers and Grilles
 - Section 23 38 13 – Commercial Kitchen Hoods
 - Section 23 44 00 – HVAC Air Filtration
 - Section 23 54 16 – Fuel-Fired Furnaces
 - Section 23 55 01 – Duct Heaters
 - Section 23 64 19 – Reciprocating Water Chillers
 - Section 23 64 26 – Rotary-Screw Water Chillers
 - Section 23 65 10 – Condensers, Coolers and Cooling Towers
 - Section 23 65 16 – natural Draft Cooling Towers
 - Section 23 72 16 – Heat Recovery Ventilator

- Section 23 73 10 – Air Handling – Built-Up
- Section 23 73 11 – Air Handling Units – Packaged
- Section 23 81 40 – Water to Air Source Unitary Heat Pumps
- Section 23 82 33.01 – Residential Convectors
- Section 23 82 33.02 – Commercial Convectors
- Section 23 82 33.03 – Cabinet Convector Heaters
- Section 23 82 33.05 – Under Slab Heaters
- Section 23 82 36 – Finned Tube Radiation Heaters
- Section 23 82 39 – Unit Heaters – Steam/Hydraulic
- Section 23 82 39.01 – Unit Heaters – Electric
- Section 23 83 13.01 – Radiant Heating Electric Cables – Snow Melting
- Section 23 83 13.02 – Radiant Heating Electric Cables – Floor Warming
- Section 23 84 13 – Humidifiers
- Section 25 05 01 – EMCS: General Requirements
- Section 25 10 02 – EMCS: Operator Work Station (OWS)
- Section 26 05 22 – Connectors and Terminations
- Section 26 12 16.01 – Dry Type Transformers Up to 600 V Primary
- Section 26 27 26 – Wiring Devices
- Section 26 56 20 – Performance Lighting System
- Section 27 20 00 – Data Communications
- Section 27 51 26 – Assistive Listening Systems
- Section 27 53 13 – Clock Systems
- Section 27 53 21 – Cable Television System
- Section 27 53 25 – Closed Circuit Television
- Section 27 54 01 – Sustainability Management System Public Interface (Windows on the World)
- Section 28 13 00 – Intrusion Detection (Form 2)
- Section 28 13 50 – Lighting Control Motion Sensors
- Section 28 31 00.01 – Multiplex Fire Alarm System
- Section 33 65 48 – Telethermics – Underground Hydraulic Piping – Plastic
- Section 33 71 16.01 – Electrical Pole Lines and Hardware

Index (DTW Request/NMS Update)

- Add “Section 01 25 00 – Substitution Procedures” to the Index.
- Add “Section 01 26 00 – Contract Modification Procedures” to the Index.
- Add “Section 02 41 99 – Demolition for Minor Works” to the Index.
- Change name of Section 03 35 05 to “Concrete Floor Hardening”.
- Delete Section 06 10 00 – Rough Carpentry in its entirety.
- Add “Section 06 10 53 – Miscellaneous Rough Carpentry” to the Index.

- Renumber Section 06 47 00 to “06 40 23.13”; change name of section to “Plastic Laminate for Interior Architectural Woodwork”.
- Renumber Section 06 47 01 to “06 61 16”; change name of section to “Solid Surfacing Fabrications”.
- Add “Section 07 46 16 – Aluminum Siding” to the Index.
- Renumber Section 07 46 13 to “07 46 19”; change name of section to “Steel Siding”.
- Renumber Section 07 62 10 to “07 71 23”; change name of section to “Manufactured Gutters and Downspouts”.
- Renumber Section 08 31 00.01 to “08 31 00”; change name of section to “Access Doors and Panels”.
- Delete Section 09 68 00 – Carpeting in its entirety.
- Add “Section 09 68 13 – Tile Carpet” to the Index.
- Add “Section 09 68 16 – Sheet Carpet” to the Index.
- Renumber Section 10 14 10 to “10 14 00”.
- Renumber Section 11 31 00 to “11 30 13”.
- Renumber Section 11 53 16 to “11 53 13”.
- Renumber Section 11 66 33 to “11 66 23”.
- Change name of Section 21 05 01 to “Common Work Results for Mechanical”.
- Renumber Section 23 81 43 to “23 81 40”.
- Change name of Section 26 05 14 to “Power Cable and Overhead Conductors (1001 V)”.
- Change name of Section 26 05 38 to “Cellular Metal Floor Raceway Fittings”.
- Change name of Section 26 24 16.01 to Panelboards – Breaker Type”.
- Change name of Section 26 24 16.02 to Panelboards – Switch and Fuse Type”.

- Change name of section 26 33 53 to “Uninterruptible Power Systems Static (UPS)”.
- Renumber Section 27 52 24 to “27 52 23”; change name of section to “Nurses Call/Code Blue Systems”.
- Renumber Section 31 32 25 to “31 25 00”.
- Renumber Section 33 05 13 to “33 05 16”; change name of section to “Maintenance Holes and Catch Basin Structures”
- Change name of Section 33 36 00 to “Wastewater Utility Storage Tanks”.
- Change name of Section 33 41 00 to “Storm Utility Drainage Piping”.
- Renumber Section 34 43 32 to “26 56 36”; change name of section to “Flood Lighting”.

Section 01 00 00 – Bid Depository Sections *(DTW Request)*

- Delete sentence 1.2.2 and replace with the following:
 - .2 Section 21 5 01 - Common Work Results for Mechanical
- Delete sentence 1.3.1.5 and replace with the following:
 - .5 Section 08 31 00 - Access Doors and Panels.
- Delete sentence 1.3.2.21 and replace with the following:
 - .21 Section 26 56 36 – Flood Lighting.

Section 01 11 00 – Summary of Work *(NMS Update)*

- Delete sentence 1.5.1.1 and replace with the following:
 - .1 Section 21 5 01 - Common Work Results for Mechanical

Section 01 25 00 – Substitution Procedures *(DTW Request)*

- Add new section.

Section 01 26 00 – Contract Modification Procedures *(DTW Request)*

- Add new section.

Section 01 31 00 – Project Management and Coordination (DTW Request)

- Delete sentence 1.9 and replace with the following:

1.9 Coordination

- .1 Coordinate construction operations included in various Sections of the Specifications to ensure efficient and orderly installation of each part of the Work.
- .2 Coordinate construction operations, included in different Sections that depend on each other for proper installation, connection and operation.
- .3 Schedule construction operations in sequence required to obtain the best results where installation of one part of the Work depends on installation of other components, before or after its own installation.
- .4 Coordinate installation of different components with other contractors to ensure maximum accessibility for required maintenance, service, and repair of all components, mechanical, electrical, and otherwise.
 - .1 Provide adequate clearances for installation and maintenance of equipment.
 - .2 Install work to permit removal of parts requiring periodic replacement or maintenance.
 - .3 Arrange pipes, ducts, raceways and equipment to permit ready access to valves, cocks, traps, starters, motors, and control components.
 - .4 Doors and access panels shall be kept clear.
 - .5 Utilize space efficiently so that adequate accessibility is retained for future maintenance, repairs, modifications and additions.
 - .6 Check the locations selected for all sprinkler heads and check the Architectural reflected ceiling plans to prevent conflicts between the trades.
 - .7 Contractor is cautioned that, where specific dimensions are not indicated or where Drawings are schematic in nature, as with most Electrical and Mechanical Drawings, Contractor shall have sole responsibility to coordinate the work to meet this requirement.
- .5 Make adequate provisions to accommodate items scheduled for later installation.
- .6 Coordinate scheduling and timing of required administrative procedures with other construction activities and activities of other contractors to avoid conflicts and to ensure orderly progress of the Work and completion within the specified Contract duration. Such

administrative activities include, but are not limited to, the following:

- .1 Preparation of Contractor's Construction Schedule.
- .2 Installation and removal of temporary facilities and controls.
- .3 Delivery and processing of submittals.
- .4 Progress meetings.
- .5 Start-up, check-out, and final acceptance of systems.
- .6 Project closeout activities.
- .7 Protection of existing and new work.
- .7 Changes required in the Work of the Contract, caused by the Contractor's neglect to coordinate the work with others shall be made at the Contractor's own expense.

- Add the following sentence 1.10

1.10 Coordination Drawings

- .1 Prepare coordination drawings according to requirements in individual Sections, and additionally where installation is not completely shown on Shop Drawings, where limited space availability necessitates coordination, or if coordination is required to facilitate integration of products and materials fabricated or installed by more than one entity.
- .2 Contractor to submit to the Owner's Representative, in AutoCAD format, coordination drawings, drawn accurately to a scale large enough to indicate and resolve conflicts.
- .3 Indicating the functional and spatial relationships of components of architectural, structural, civil, mechanical, and electrical systems.
- .4 Do not base coordination drawings on standard printed data.
- .5 Indicate space requirements for routine maintenance and for anticipated replacement of components during the life of the installation.
- .6 Show location and size of access doors required for access to concealed dampers, valves, and other controls.
- .7 Indicate required installation sequences.
- .8 Indicate dimensions shown on the Drawings. Specifically note dimensions that appear to be in conflict with submitted equipment and minimum clearance requirements.
- .9 Minor dimension changes and difficult installations will not be considered changes to the Contract.
- .10 Owner's Representative will review coordination drawings to confirm that the Work is being coordinated, but not for the details of the coordination. If Owner's Representative determines that coordination drawings are not being prepared in sufficient scope or detail, or are otherwise deficient, Owner's Representative will so

inform Contractor, who shall make changes as directed and resubmit.

- Renumber 1.10 to 1.11

Section 01 35 99 – Dust Control Procedures (NMS Update)

- Delete sentence 1.2.3 and replace with the following:
.3 Section 06 10 53 – Miscellaneous Rough Carpentry
- Sentence 2.1.2, delete words “06 10 00 – Rough Carpentry” and replace with “06 10 53 - Miscellaneous Rough Carpentry”.

Section 01 45 00 – Quality Control (DTW Request)

- Sentence 1.3.2, delete words “Give timely notice” and replace with “Give 48 hours notice”.

Section 01 61 00 – Common Product Requirements (DTW Request)

- Add the following to sentence 1.19.1: “Substitution prior to Tender closing will be considered by Owner’s Representative only if the conditions of Section 01 25 00 – Substitution Procedures are met.”
- Delete sentence 1.19.2 and replace with the following:
.2 **After Contract award** substitutions of material or equipment, other than as selected by Contractor from those specified, will be considered by Owner’s Representative only if the conditions of Section 01 25 00 – Substitution Procedures are met.
- Delete sentence 1.19.2.1.
- Delete sentence 1.19.2.2.
- Delete sentence 1.19.2.3.

Section 02 41 99 – Demolition for Minor Works (NMS Update)

- Add new section.

Section 03 30 00 – Cast in Place Concrete (DTW Request)

- Sentence 1.1.5, delete words “Concrete Floor Hardeners” and replace with “Concrete Floor Hardening”.

- Add the following sentence 3.3.2:
 - .2 Finish all interior exposed concrete slabs to a tight consistent steel trowel appearance without burnishing the surface.

- Add the following sentence 3.4.2:
 - .2 For compressive strength testing of concrete a minimum of four (4) cylinders and three (3) field cured cylinders are required for:
 - .1 Each day's pour.
 - .2 Each type of grade of concrete.
 - .3 Each change of supplier.
 - .4 Each 50 cubic meters or fraction thereof for footings and foundation walls, requirements of CAN/CSA A 23.1.
 - .5 Conduct at least one (1) slump and one (1) air entrainment test with each compressive strength test.

- Renumber sentence 3.4.2 to 3.4.3; delete sentence and replace with the following:
 - .3 Pay for costs of tests as specified from Cash Allowance. Costs of retesting due to deficient work will be paid for by contractor, by credit change order.

- Renumber sentence 3.4.3 to 3.4.4; delete sentence and replace with the following:
 - .4 Take additional test cylinders during cold weather concreting. Cure cylinders on job site under same conditions as concrete which they represent.

- Renumber 3.4.4 to 3.4.5.

- Renumber 3.4.5 to 3.4.6.

- Renumber 3.4.6 to 3.4.7.

- Add the following sentence 3.5:
 - 3.5 Defective Work
 - .1 Repairs and classification of unacceptable concrete to be in accordance with CAN/CSA-A23.1.
 - .2 Remove defective concrete and embedded debris and repair as directed by Owner's Representative.

- .3 Remove to bare concrete curing compounds detrimental to application of specified finishes.
- .4 Concrete to be supplied at the minimum strength requirement at 28 days. Tests indicating strengths lower than specified will necessitate further testing as required by the Owner's Representative. Cost for such testing to be at the Contractor's expense. Should further tests confirm low values, the Owner's Representative has the right to require strengthening of the affected area or removal and replacing of the weak concrete all to the Contractor's expense.
- .5 Repair all shrinkage cracks in the completed slab-on-grade to remain exposed employing a suitable epoxy injection technique acceptable to Owner's Representative to completely seal all such cracks, all to the Contractor's expense.
- .6 Concrete tolerance in accordance with CAN/CSA-A23.1.

Section 03 35 05 – Concrete Floor Handeners (NMS Update)

- Change name of section to “Concrete Floor Hardening”.

Section 06 10 00 – Rough Carpentry (NMS Update)

- Delete section in its entirety.

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

- Add new section.

Section 06 15 00 – Wood Decking (NMS Update)

- Delete sentence 1.1.4 and replace with the following:

.4 Section 06 10 53 – Miscellaneous Rough Carpentry

Section 06 17 53 – Shop-Fabricated Wood Trusses (NMS Update)

- Delete sentence 1.1.4 and replace with the following:

.4 Section 06 10 53 – Miscellaneous Rough Carpentry

Section 06 20 00 – Finish Carpentry (NMS Update)

- Delete sentence 1.1.5 and replace with the following:

.5 Section 06 40 23.13 - Plastic Laminate for Interior Architectural Woodwork.

Section 06 40 00 – Architectural Woodwork (NMS Update)

- Delete sentence 1.1.6 and replace with the following:
 - .6 Section 06 40 23.13 - Plastic Laminate for Interior Architectural Woodwork.
- Delete sentence 1.2.1.4
- Delete sentence 1.2.2 and replace with the following:
 - .2 Architectural Woodwork Manufacturers Association of Canada (AWMAC)
 - .1 Architectural Woodwork Standards (AWS).
 - .1 AWS Manual
- Add the following sentence 1.2.3.2:
 - .2 ASTM D2832, Standard Guide for Determining Volatile and Nonvolatile Content of Paint and Related Coatings.
- Add the following sentence 1.2.3.3:
 - .3 ASTM D5116, Standard Guide For Small-Scale Environmental Chamber Determinations of Organic Emissions From Indoor Materials/Products.
- Delete sentence 1.2.6 and replace with the following:
 - .6 National Electrical Manufacturers Association (NEMA)
 - .1 ANSI/NEMA LD-3, High-Pressure Decorative Laminates (HPDL).
- Delete sentence 1.2.7.
- Add the following sentence 1.3.3:
 - .3 Work in accordance with Grade or Grades specified of the AWS.
- Delete sentence 2.1.1.2.
- Renumber 2.1.1.3 to 2.1.1.2.

- Sentence 2.1.11, delete words “06 47 00 – Plastic Laminate Finishes” and replace with “06 40 23.13 - Plastic Laminate for Interior Architectural Woodwork”.

Section 06 47 00 – Plastic Laminate Finishing *(NMS Update)*

- Renumber section to “06 40 23.13”; change name of section to “Plastic Laminate Finishing for Interior architectural Woodwork”.

- Add the following sentence 1.2.2:

.2 Architectural Woodwork Manufacturers Association of Canada (AWMAC)

.1 Architectural Woodwork Standards (AWS).

- Renumber 1.2.2 to 1.2.3.

- Renumber 1.2.3 to 1.2.4.

- Delete sentence 1.2.3.1 (Newly renumbered 1.2.4.1) and replace with the following:

.1 CSA O112-M Series, Standards for Wood Adhesives.

- Renumber 1.2.4 to 1.2.5.

- Delete sentence 1.2.4.1 (Newly renumbered 1.2.5.1) and replace with the following:

.1 ANSI/NEMA LD-3-[05] , High Pressure Decorative Laminates (HPDL).

- Delete sentence 1.3 Submittals and replace with the following:

1.3 Action and Information Submittals

.1 Submit in accordance with Section 01 33 00- Submittal Procedures.

.2 Product Data:

.1 Submit manufacturer's instructions, printed product literature and data sheets for laminate, adhesive, and core materials and include product characteristics, performance criteria, physical size, finish and limitations.

.2 Submit two copies of WHMIS MSDS in accordance with Section 01 35 29.06 - Health and Safety Requirements. Indicate VOC's for adhesives in g/L.

.3 Samples:

- .1 Submit duplicate samples of joints, edging, cutouts and postformed profiles.
 - .4 Shop Drawings:
 - .1 Prepare and submit shop drawings in accordance with AWMAC AWS and as follows:
 - .2 Indicate AWMAC AWS quality grade where different from predominant grade specified.
 - .3 Include color schedule of all plastic laminate work, including all countertop, exposed, and semi-exposed cabinet finishes, finish material manufacturer, pattern, and color.
 - .5 Certifications: submit certificates signed by manufacturer certifying that materials comply with specified performance characteristics and physical properties.
- Delete sentence 1.4 Quality Assurance and replace with the following:
 - 1.4 Quality Assurance
 - .1 Perform Work of this Section by plastic laminate fabricator with minimum 5 years of current experience and having completed minimum one project in the past 5 years with value within 20% of the cost of the work of this Section.
 - .2 Mock-ups:
 - .1 Construct mock-ups in accordance with [Section 01 45 00- Quality Control.
 - .2 Prepare one typical plastic laminate finish installation where directed by Owner's Representative.
 - .3 Allow 24 hours for inspection of mock-up by Owner's Representative before proceeding with Work.
 - .4 When accepted, mock-up will demonstrate minimum standard for Work.
 - .5 Do not proceed with work prior to receipt of written acceptance of mock-up by Owner's Representative.
 - .6 Accepted mock-up may remain as part of finished work.
 - Add the following sentence 1.5.6:
 - .6 Delivery and Acceptance Requirements: deliver materials to site in original factory packaging, labelled with manufacturer's name and address.
 - Add the following sentence 1.5.7:
 - .7 Maintain indoor temperature and humidity within range recommended by the AWMAC Quality Standards for location of the project.

- Add the following sentence 1.6:

1.6 Closeout Submittals

- .1 Provide maintenance data for laminate work for incorporation into manual specified in Section 01 78 00- Closeout Submittals.

- Add the following sentence 3.5

3.5 Protection

- .1 Cover finished laminated plastic veneered surfaces with heavy kraft paper or put in cartons during shipment.
- .2 Protect installed laminated surfaces in accordance with manufacturer's written recommendations.
 - .1 Remove protection only immediately before final inspection.
- .3 Protect installed products and components from damage during construction.
- .4 Repair damage to adjacent materials caused by laminate, adhesive, and core materials installation.

Section 06 47 01 – Solid Surface Fabrications *(NMS Update)*

- Renumber section to “06 61 16”; change name of section to “Solid Surfacing Fabrications”.

Section 07 21 13 – Board Insulation *(NMS Update)*

- Delete sentence 1.1.4 and replace with the following:

- .4 Section 06 10 53 – Miscellaneous Rough Carpentry.

Section 07 21 16 – Blanket Insulation *(NMS Update)*

- Delete sentence 1.1.3 and replace with the following:

- .3 Section 06 10 53 – Miscellaneous Rough Carpentry.

Section 07 26 00 – Vapour Retarders *(NMS Update)*

- Delete sentence 1.1.4 and replace with the following:

- .4 Section 06 10 53 – Miscellaneous Rough Carpentry.

Section 07 46 13 – Preformed Metal Siding *(NMS Update)*

- Renumber section to “07 46 19”; change name of section to “Steel Siding”.
- Delete sentence 1.1.3 and replace with the following:
 - .3 Section 06 10 53 – Miscellaneous Rough Carpentry.
- Add the following sentence 1.2.2:
 - .2 ASTM International
 - .1 ASTM D2369, Test Method for Volatile Content of Coatings.
 - .2 ASTM D2832, Standard Guide for Determining Volatile and Nonvolatile Content of Paint and Related Coatings.
 - .3 ASTM D5116, Standard Guide For Small-Scale Environmental Chamber Determinations of Organic Emissions From Indoor Materials/Products.
- Renumber 1.2.2 to 1.2.3.
- Renumber 1.2.3 to 1.2.4.
- Sentence 1.4.2, delete word “(year)” and replace with “(two)”.

Section 07 46 16 – Aluminum Siding *(NMS Update)*

- Add new section.

Section 07 46 23 – Wood Siding – Prefinished *(NMS Update)*

- Delete sentence 1.1.2 and replace with the following:
 - .2 Section 06 10 53 – Miscellaneous Rough Carpentry.

Section 07 46 33 – Plastic Siding *(Consultant Request)*

- Delete sentence 1.1.3 and replace with the following:
 - .3 Section 06 10 53 – Miscellaneous Rough Carpentry.
- Delete sentence 1.4 and replace with the following:
 - 1.4 Warranty

- .1 Provide a lifetime limited, non-prorated warranty, signed and issued in the name of the Owner, stating vinyl siding is free from manufacturer's defects which result in chipping, cracking, flaking, peeling, splitting or blistering, and will resist denting due to its high impact resistance. Warranty to be from the date of Substantial Completion.
- .2 Provide workmanship guarantee for a period of 2 (two) years from the date of Substantial Completion.

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

- Delete sentence 1.1.8 and replace with the following:
 - .4 Section 06 10 53 – Miscellaneous Rough Carpentry.
- Delete sentence 2.9.2 and replace with the following:
 - .2 Sump pan: provide 600 x 600 mm sloped insulation sump at drains.
- Sentence 3.3.2.2, delete words “06 10 00 – Rough Carpentry” and replace with “06 10 53 – Miscellaneous Rough Carpentry”.

Section 07 62 00 – Sheet Metal Flashing and Trim (NMS Update)

- Delete sentence 1.1.3 and replace with the following:
 - .3 Section 06 10 53 – Miscellaneous Rough Carpentry.
- Delete sentence 1.2.1.1 and replace with the following:
 - .1 AA Aluminum Design Manual, Part VIII Guidelines for Aluminum Sheet Metal Work in Building Construction.
- Delete sentence 1.2.2.4.
- Delete sentence 1.2.3.
- Renumber 1.2.4 to 1.2.3.
- Renumber 1.2.5 to 1.2.4.
- Add the following sentence 1.2.5:
 - .5 Canadian Sheet Steel Building Institute (CSSBI)

- .1 CSSBI S8, Quality and Performance Specification for Prefinished Sheet Steel Used for Building Products.
- .2 CSSBI B17, Barrier Series Prefinished Steel Sheet: Product Performance & Applications.
- .3 CSSBI Sheet Steel Facts #12, Fastener Guide for Sheet Steel Building Products.

- Delete sentence 1.3 and replace with the following:

1.3 Action and Informational Submittals

- .1 Provide submittals in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Product Data:
 - .1 Submit manufacturer's printed product literature including product specifications and technical data sheets for sheet metal flashing fasteners and accessory materials. Include product characteristics, performance criteria, physical size, finish and limitations.
- .3 Shop Drawings:
 - .1 Submit shop drawings for all sheet metal fabrications.
 - .2 Indicate sheet thickness, flashing dimensions and fastenings. Include anchorage, expansion joints and other provisions for thermal movement.
 - .3 Submit manufacturer's catalogue cut sheets for manufactured items.
- .4 Samples:
 - .1 Submit 50 x 50 mm samples of each type of sheet metal material, finishes and colour.

- Add the following sentence 1.4:

1.4 Delivery, Storage and Handling

- .1 Deliver, store and handle materials in accordance with Section 01 61 00 - Common Product Requirements.
- .2 Handle and store flashing materials to prevent creasing, buckling, scratching, or other damage.

- Add the following sentence 2.1.1:

- .1 Provide sheet metal in base metal thickness specified. Where no thickness specified, provide base sheet metal in thickness recommended in SMACNA Architectural Sheet Metal Manual for type of item being fabricated, but not less than the thickness required by the authority having jurisdiction.

.2 Renumber 2.1.1 to 2.1.2.

- Delete sentence 2.3.2.
- Renumber 2.3.3 to 2.3.2.
- Renumber 2.3.4 to 2.3.3.
- Renumber 2.3.5 to 2.3.4.
- Renumber 2.3.6 to 2.3.5.
- Renumber 2.3.7 to 2.3.6.
- Renumber 2.3.8 to 2.3.7.

Section 07 62 10 – Eavestrough and Downspouts *(NMS Update)*

- Renumber section to “07 71 23”; change name of section to “Manufactured Gutters and Downspouts”.
- Delete sentence 1.1.3 and replace with the following:

.3 Section 06 10 53 – Miscellaneous Rough Carpentry.
- Sentence 1.1.6, delete “07 62 10” and replace with “07 62 00”.

Section 07 72 33 – Roof Hatches *(NMS Update)*

- Delete sentence 1.1.4 and replace with the following:

.4 Section 06 10 53 – Miscellaneous Rough Carpentry.

Section 07 84 00 – Fire Stopping *(DTW Request)*

- Delete sentence “1.5 Submittals” and replace with the following:

1.5 SUBMITTALS

.1 Prior to start of work submit the following:

- .1 Duplicate 300 x 300 mm samples showing actual firestop material proposed for project.
- .2 Shop drawings to show proposed material, reinforcement, anchorage, fastenings and method of installation.

Construction details should accurately reflect actual job conditions.

- .3 Manufacturer's engineering judgement identification number and drawing details when no ULC or cUL system is available. Engineering judgement must include both project name and contractor's name who will install firestop system as described in drawing.
- .4 Manufacturer's product data for materials and prefabricated devices, providing descriptions are sufficient for identification at job site. Include manufacturer's printed instructions for installation. Include manufacturer's specifications, training letter, and technical data for each material including the composition and limitations, documentation of ULC or CUL firestop systems to be used.
- .5 Material safety data sheets provided with product delivered to job site.

- Delete sentence 3.4.1.3 and replace with the following:

.3 Perimeter of fire-resistance rated masonry and gypsum board partitions.

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

- Delete sentence 1.1.5 and replace with the following:

.5 Section 06 10 53 – Miscellaneous Rough Carpentry

Section 08 14 16 – Flush Wood Doors *(DTW Request)*

- Sentence 1.5.2, delete words “

Section 08 31 00.01 – Access Doors *(NMS Update)*

- Change name of section to “Access Doors and Panels”; renumber section to “08 31 00”.

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

- Delete sentence 1.1.5 and replace with the following:

.5 Section 06 10 53 – Miscellaneous Rough Carpentry

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

- Delete sentence 1.1.7 and replace with the following:

.7 Section 06 10 53 – Miscellaneous Rough Carpentry

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

- Delete sentence 1.1.3 and replace with the following:

.3 Section 06 10 53 – Miscellaneous Rough Carpentry

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

- Delete sentence 1.1.5 and replace with the following:

.5 Section 06 10 53 – Miscellaneous Rough Carpentry

- Add the following sentence 1.2.1.1:

.1 ASTM C423, Standard Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method.

- Add the following sentence 1.2.1.2:

.2 ASTM C635/C635M, Standard Specifications for the Manufacture, Performance and Testing of Metal Suspension Systems for Acoustical Tile and Lay-In Panel Ceilings.

- Add the following sentence 1.2.1.3:

.3 ASTM C636/C636M, Standard Practice for Installation of Metal Ceiling Suspension Systems for Acoustical Tile and Lay-In Panels.

- Renumber 1.2.1.1 to 1.2.1.4.

- Add the following sentence 1.2.1.5:

.5 ASTM F1667, Standard Specification for Driven Fasteners: Nails, Spikes and Staples.

- Delete sentence 1.2.2.

- Delete sentence 1.2.3.

- Renumber 1.2.4 to 1.2.2.

- Delete sentence 1.3 and replace with the following:

1.3 Action and Informational Submittals

- .1 Submit samples in accordance with Section 01 33 00- Submittal Procedures.
 - .2 Product Data:
 - .1 Submit manufacturer's instructions, printed product literature and data sheets for acoustical suspension, acoustic panels, acoustic tiles, and system accessories. Include product characteristics, performance criteria, physical size, finish and limitations.
 - .3 Shop Drawings:
 - .1 Submit reflected ceiling plans for special grid patterns as indicated.
 - .2 Indicate [lay-out , insert and hanger spacing and fastening details, splicing method for main and cross runners, location of access splines, change in level details, access door dimensions, and locations, and lateral bracing and accessories, acoustical unit support at ceiling fixture.
 - .4 Samples:
 - .1 Submit for review and acceptance of each component specified or necessary for complete installation. Include technical descriptive data.
 - .2 Submit duplicate 150 mm x 100 mm samples of each type of acoustical unit.
- Add the following sentence 1.9:
 - 1.9 Delivery, Storage and Handling
 - .1 Deliver, store and handle materials in accordance with Section 01 61 00 - Common Product Requirements.
 - .2 Delivery and Acceptance Requirements: deliver materials to site in original factory packaging, labelled with manufacturer's name and address.
 - .3 Replace defective or damaged materials with new.
 - .4 Store extra materials required for maintenance, where directed by Owner's Representative.
 - Add the following sentence 1.10:
 - 1.10 Coordination
 - .1 Do not begin erection of ceiling suspension system until work above ceiling has been inspected by Owner's Representative.
 - Sentence 2.1.1, delete words "CAN/CGSB-92.1" and replace with "ATSM E1264".

Section 09 65 16 – Resilient Sheet Flooring *(DTW Request)*

- Sentence 3.1.2, delete words “3 lbs/100 ft²” and replace with “3 lbs/1000 ft²”.

Section 09 68 00 – Carpeting *(NMS Update)*

- Delete section its entirety.

Section 09 68 13 – Tile Carpet *(NMS Update)*

- Add new section.

Section 09 68 16 – Sheet Carpet *(NMS Update)*

- Add new section.

Section 09 80 00 – Acoustical Treatment *(NMS Update)*

- Delete sentence 1.1.6 and replace with the following:

.6 Section 06 10 53 – Miscellaneous Rough Carpentry

Section 09 91 13 – Exterior Painting *(NMS Update)*

- Delete sentence 1.2.4 and replace with the following:

.4 National Research Council (NRC)

.1 National Fire Code of Canada.

- Add the following sentence 1.3.8:

.8 Mock-Ups:

- .1 When requested by Owner’s Representative or Paint Inspection Agency, prepare and paint designated surface, area, room or item to requirements specified herein, with specified paint or coating showing selected colours, number of coats, gloss/sheen, textures and quality of work to MPI Painting Specification Manual standards for review and approval.
- .2 Construct mock-ups in accordance with Section 01 45 00 - Quality Control.
- .3 Mock-up will be used to judge quality of work, substrate preparation, operation of equipment and material application and skill to MPI Architectural Painting Specification Manual standards.

- .4 Locate as directed by Owner's Representative.
 - .5 Allow two (2) working days for inspection of mock-up before proceeding with Work.
 - .6 When accepted, mock-up will demonstrate minimum standard of quality required for this work. Approved mock-up may remain as part of finished work.
- Delete sentence 1.7.
 - Add the following sentence 2.2.5:
 - .5 For deep and ultra deep colours 4 coats may be required.
 - Add the following sentence 3.5.3.6:
 - .6 Wood, stucco, concrete, cement masonry units CMU's and brick; if sprayed, must be back rolled.
 - Add the following sentence 3.7.4:
 - .4 Where "special" painting, coating or decorating system applications (i.e. elastomeric coatings) or non-MPI listed products or systems are to be used, paint or coating manufacturer to provide as part of this work, certification of surfaces and conditions for specific paint or coating system application as well as on site supervision, inspection and approval of their paint or coating system application as required at no additional cost.

Section 09 91 23 – Interior Painting (NMS Update)

- Add the following sentence 1.2.1.2:
 - .2 SW-846, Test Methods for Evaluating Solid Waste: Physical/Chemical Methods.
- Add the following sentence 2.2.5:
 - .5 For deep and ultra deep colours; 4 coats may be required.
- Add the following sentence 3.6.11:
 - .11 Wood, drywall, plaster, stucco, concrete, concrete masonry units and brick; if sprayed, must be back rolled.

Section 10 11 16 – Markerboards (NMS Update)

- Delete sentence 1.1.4 and replace with the following:

.4 Section 06 10 53 – Miscellaneous Rough Carpentry

Section 10 11 23 – Tackboards (NMS Update)

- Delete sentence 1.1.4 and replace with the following:

.4 Section 06 10 53 – Miscellaneous Rough Carpentry

Section 10 14 10 – Signage (NMS Update)

- Renumber section to “10 14 00”.

Section 10 21 13.13 – Metal Toilet Partitions (NMS Update)

- Delete sentence 1.1.4 and replace with the following:

.4 Section 06 10 53 – Miscellaneous Rough Carpentry.

Section 10 22 26.13 – Accordion Folding Partitions (NMS Update)

- Delete sentence 1.1.5 and replace with the following:

.5 Section 06 10 53 – Miscellaneous Rough Carpentry.

Section 10 22 26.33 – Folding Panel Partitions (NMS Update)

- Delete sentence 1.1.5 and replace with the following:

.5 Section 06 10 53 – Miscellaneous Rough Carpentry.

Section 10 26 00.01 – Wall and Corner Guards (NMS Update)

- Delete sentence 1.1.3 and replace with the following:

.3 Section 06 10 53 – Miscellaneous Rough Carpentry.

Section 10 28 10 – Toilet and Bath Accessories (NMS Update)

- Delete sentence 1.1.3 and replace with the following:

.3 Section 06 10 53 – Miscellaneous Rough Carpentry

Section 10 51 13 – Metal Lockers (NMS Update)

- Delete sentence 1.1.3 and replace with the following:

.3 Section 06 10 53 – Miscellaneous Rough Carpentry

Section 10 75 00 – Flagpoles (NMS Update)

- Delete sentence 1.1.6 and replace with the following:

.6 Section 06 10 53 – Miscellaneous Rough Carpentry

Section 11 31 00 – Residential Appliances (NMS Update)

- Renumber section to “11 30 13”.

Section 11 53 16 – Laboratory Fume Hoods (NMS Update)

- Renumber section to “11 53 13”.

Section 11 66 33 – Gymnasium Equipment (NMS Update)

- Renumber section to “11 66 23”.
- Delete sentence 1.1.4 and replace with the following:

.4 Section 06 10 53 – Miscellaneous Rough Carpentry

Section 12 21 13 – Horizontal Louvre Blinds (NMS Update)

- Delete sentence 1.1.3 and replace with the following:

.3 Section 06 10 53 – Miscellaneous Rough Carpentry

Section 12 21 16 – Vertical Louvre Blinds (NMS Update)

- Delete sentence 1.1.4 and replace with the following:

.4 Section 06 10 53 – Miscellaneous Rough Carpentry

Section 12 21 26 – Black-Out Blinds (NMS Update)

- Delete sentence 1.1.3 and replace with the following:

.3 Section 06 10 53 – Miscellaneous Rough Carpentry

Section 21 05 01 – Common Work Results – Mechanical (NMS Update)

- Change name of section to “Common Work Results for Mechanical”.

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

- Delete sentence 1.1.6 and replace with the following:
 - .6 Section 21 5 01 - Common Work Results for Mechanical
- Sentence 3.3.1, delete words “Common Work Results-Mechanical” and replace with “Common Work Results for Mechanical”.

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

- Delete sentence 1.1.6 and replace with the following:
 - .6 Section 21 5 01 - Common Work Results for Mechanical
- Sentence 3.3.1, delete words “Common Work Results-Mechanical” and replace with “Common Work Results for Mechanical”.

Section 22 13 19 – Drainage Waste and Vent Piping – Corrosion Resistant (Supplier Request)

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

Section 22 15 00 – General Service Compressed Air Systems (NMS Update)

- Delete sentence 1.2.5 and replace with the following:
 - .5 Section 21 5 01 - Common Work Results for Mechanical

Section 22 42 01 – Plumbing Specialties and Accessories (Supplier Request)

- Sentence 2.16, delete word “Dilution” and replace with “Neutralization”.
- Sentence 2.16.1.1, delete word “dilution” and replace with “neutralization”.
- Sentence 2.16.1.8, delete word “dilution” and replace with “neutralization”.
- Sentence 2.16.1.9, delete word “dilution” and replace with “neutralization”.
- Sentence 2.16.1.10, delete words “PEGAS”, “Town and Country”, “Z9A-NT”; add word “IPEX”.
- Sentence 2.16.2, delete word “dilution” and replace with “neutralization”.
- Sentence 2.16.2.1, delete word “dilution” and replace with “neutralization”.

- Sentence 2.16.2.12, delete word “dilution” and replace with “neutralization”.
- Sentence 2.16.2.13, Sentence 2.16.1.10, delete words “PEGAS”, “Town and Country”, “Z9A-SI”; add word “IPEX”.

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

- Sentence 1.2.1, delete word “NBC”.
- Sentence 1.2.2, delete word “NBC”.
- Delete sentence 1.2.3.2.
- Renumber 1.2.3.3 to 1.2.3.2.
- Renumber 1.2.3.4 to 1.2.3.3.
- Sentence 1.2.8.2, delete word “NBC”.
- Sentence 1.19.1, delete word “NBC”.
- Sentence 1.19.3, delete word “NBC”.
- Sentence 1.19.4, delete word “NBC”.
- Sentence 1.20.2, delete word “NBC”.
- Sentence 1.20.4, delete word “NBC”.
- Sentence 1.20.5, delete word “NBC”.

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

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

Section 23 81 43 – Water to Air Source Unitary Heat Pumps (NMS Update)

- Renumber section to “23 81 40”.

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

- Delete sentence 1.1.4 and replace with the following:

.4 Section 21 5 01 - Common Work Results for Mechanical

Section 26 05 14 – Power Cable and Overhead Conductors (1000 V) (NMS Update)

- Change name of section to “Power Cable and Overhead Conductors (1001 V)”.

Section 26 05 21 – Wire and Cables (0-1000V) (DTW Request)

- Sentence 2.4.4, delete words “double split” and replace with “anti-short”.
- Add the following sentence 3.6.3:

.3 Ensure all cables are terminated and made safe prior to ceiling grid being installed. All lighting drops to be terminated safely, with approved connectors, within an approved box, complete with cover.

Section 26 05 31 – Splitters, Junction, Pull Boxes and Cabinets (DTW Request)

- Add the following sentence 3.2.5:

.5 Ensure all Electrical boxes above drywall ceilings are accessible via a properly sized access door installed directly below the box in drywall ceilings. Temporary removal of electrical light fixtures are not considered safe access to above ceiling electrical boxes and shall not be permitted.

Section 26 05 38 – Cellular Metal Floor Raceway and Fittings (NMS Update)

- Change name of section to ‘Cellular Metal Floor Raceway Fittings’.

Section 26 24 01 – Service Equipment (NMS Update)

- Delete sentence 1.2.3 and replace with the following:

.3 Section 26 24 16.01 - Panelboards – Breaker Type.

- Delete sentence 1.2.4 and replace with the following:

.4 Section 26 24 16.02 - Panelboards - Switch and Fuse Type.

- Sentence 2.1.3, delete words “Panelboards Breaker Type” and replace with “Panelboards – Breaker Type”.

Section 26 24 16.01 – Panelboards Breaker Type (NMS Update)

- Change name of section to “Panelboards – Breaker Type”.

- Delete sentence 1.2.3 and replace with the following:

.3 Section 06 10 53 – Miscellaneous Rough Carpentry.

Section 26 24 16.02 – Panelboards Switch and Fuse Type (NMS Update)

- Change name of section to “Panelboards – Switch and Fuse Type”.
- Delete sentence 1.1.2 and replace with the following:

.2 Section 06 10 53 – Miscellaneous Rough Carpentry.

Section 26 33 53 – Static Uninterruptible Power Supply (NMS Update)

- Change name of section to “Uninterruptible Power Systems Static (UPS)”.

Section 27 11 19 – Structured Cabling for Communications Systems (NMS Update)

- Delete sentence 1.1.3 and replace with the following:

.3 Section 06 10 53 – Miscellaneous Rough Carpentry.

Section 27 31 00 – Voice Communications Switching & Routing Equipment (NMS Update)

- .3 Section 06 10 53 – Miscellaneous Rough Carpentry.

Section 27 52 24 – Nurses Call Systems (NMS Update)

- Renumber section to “27 52 23”; change name of section to “Nurses Call/Code Blue Systems”.

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

- Delete sentence 2.14.2 and replace with the following:

.2 Applications: ventilation unit shut down, sprinkler device monitoring, control of magnetic door hold open devices, door electric strikes, interface to electronic door hardware controllers to facilitate door control functions when required.

- Add the following sentence 2.14.3:

.3 Ensure that control circuits connected to addressable relay dry contacts are protected by fuse to limit current within manufacturer’s requirements.

Section 31 11 00 – Clearing and Grubbing (NMS Update)

- Add the following sentence 1.3.1.2:
 - .2 Workers must wear gloves, dust masks, safety boots, protective clothing, eye protection, safety vests when clearing and grubbing.
- Renumber 1.3.1.2 to 1.3.1.3.
- Renumber 1.3.1.3 to 1.3.1.4.
- Sentence 1.4.2, delete words “Engineer /Architect” and replace with “Owner’s Representative”.
- Add the following sentence 3.4.3:
 - .3 Prune individual trees as indicated.
- Add the following sentence 3.4.4:
 - .4 Trim trees designated to be left standing within cleared areas of dead branches 4.0 cm or more in diameter; and trim branches to heights as indicated.
- Add the following sentence 3.4.5:
 - .5 Cut limbs and branches to be trimmed close to bole of tree or main branches.

Section 31 23 33.01 – Excavating, Trenching and Backfilling (NMS Update)

- Delete sentence 1.1.10 and replace with the following:
 - .10 Section 33 41 00 - Storm Utility Drainage Piping.

Section 31 32 25 – Erosion and Sedimentation Control (NMS Update)

- Renumber section to “31 25 00”.

Section 33 05 13 – Manholes and Catch Basin Structures (NMS Update)

- Renumber section to “33 05 16”; change name of section to “Maintenance Holes and Catch Basin Structures”.
- Delete sentence 1.2.7 and replace with the following:
.7 Section 33 41 00 - Storm Utility Drainage Piping.

Section 33 11 16 – Site Water Utility Distribution Piping (DTW Request)

- Sentence 2.1.1, delete words “pressure class 52” and replace with “pressure class 350”.

Section 33 11 16.01 – Incoming Site Water Utility Distribution Piping (NMS Update)

- Delete sentence 1.1.4 and replace with the following:
.4 Section 21 5 01 - Common Work Results for Mechanical
- Sentence 3.2.1, delete words “Common Work Results-Mechanical” and replace with “Common Work Results for Mechanical”.

Section 33 31 13 – Public Sanitary Utility Sewerage Piping (DTW Request)

- Sentence 1.1.7, delete words “Manholes and Catch Basin Structures” and replace with “Maintenance Holes and Catch Basin Structures”.

Section 33 36 00 – Utility Septic Tanks (NMS Update)

- Rename section to “Wastewater Utility Storage Tanks”.

Section 33 36 33 – Utility Drainage Field (NMS Update)

- Delete sentence 1.2.5 and replace with the following:
.5 Section 33 36 00 - Wastewater Utility Storage Tanks.
- Sentence 2.4.1, delete words “Utility Septic Tanks” and replace with “Wastewater Utility Storage Tanks”

Section 33 41 00 – Storm Utility Drains (DTW Request)

- Change name of section to “Storm Utility Drainage Piping”.
- Delete sentence 1.2.5 and replace with the following:
.5 Section 33 05 16 - Maintenance Holes and Catch Basin Structures.

Section 34 43 32 – Floodlighting – Exterior *(NMS Update)*

- Renumber section to “26 56 36”; change name of section to “Flood Lighting”.