



# NMS

●●● Canadian National Master Construction Specification



# Design Specifications

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| 08 33 00               | Overhead Coiling Doors and Grilles                          | 2022-04-20 |
| 08 33 13               | Coiling Counter Doors                                       | 2010-06-30 |
| 08 33 36               | Side Coiling Grilles                                        | 2007-12-31 |
| 08 34 59.13            | Vault Doors and Frames                                      | 2007-12-31 |

|             |                                         |            |
|-------------|-----------------------------------------|------------|
| 08 35 13.13 | Accordion Folding Doors                 | 2011-12-31 |
| 08 35 13.33 | Panel Folding Doors                     | 2011-12-31 |
| 08 36 13.13 | Sectional Wood Doors                    | 2010-12-31 |
| 08 36 13.16 | Sectional Metal Doors                   | 2022-04-20 |
| 08 36 13.19 | Sectional Plastic Doors                 | 2022-04-20 |
| 08 36 19    | Multi-Leaf Vertical Lift Doors          | 2022-04-20 |
| 08 36 19.13 | Multi-Leaf Vertical Lift Wood Doors     | 2022-04-20 |
| 08 36 19.16 | Multi-Leaf Vertical Lift Metal Doors    | 2022-04-20 |
| 08 38 16    | Flexible Traffic Doors                  | 2022-04-20 |
| 08 42 26.33 | Swinging all Glass Entrances            | 2022-10-21 |
| 08 42 29    | Automatic Entrances                     | 2022-10-21 |
| 08 44 13    | Glazed Aluminum Curtain Walls           | 2022-04-20 |
| 08 44 23    | Structural Sealant Glazed Curtain Walls | 2022-04-20 |
| 08 50 00    | Windows                                 | 2022-04-20 |
| 08 62 00    | Unit Skylights                          | 2022-10-21 |
| 08 71 00    | Door Hardware                           | 2022-10-21 |
| 08 80 00    | Glazing                                 | 2022-04-20 |
| 08 87 23.16 | Security Films                          | 2022-04-20 |
| 08 90 00    | Louvres and Vents                       | 2022-04-20 |

| DIVISION 09 — Finishes |                                                     |            |
|------------------------|-----------------------------------------------------|------------|
| 09 01 90.62            | Exterior Repainting                                 | 2019-11-06 |
| 09 01 90.63            | Interior Repainting                                 | 2019-11-06 |
| 09 03 25               | Conservation Treatment for Period Plastering        | 2022-10-21 |
| 09 03 91.13            | Conservation Treatment for Period Exterior Painting | 2014-06-30 |
| 09 03 91.23            | Conservation Treatment for Period Interior Painting | 2014-06-30 |
| 09 21 16               | Gypsum Board Assemblies                             | 2017-04-25 |
| 09 21 16.08            | Gypsum Board Assemblies for Minor Works             | 2010-12-31 |
| 09 22 00               | Supports for Plaster and Gypsum Board               | 2012-12-31 |
| 09 22 16               | Non-Structural Metal Framing                        | 2018-10-29 |
| 09 23 00               | Gypsum Plastering                                   | 2010-06-30 |
| 09 30 13               | Ceramic Tiling                                      | 2022-04-20 |
| 09 30 15               | Quarry and Paver Tiling                             | 2022-10-21 |
| 09 51 13               | Acoustical Panel Ceilings                           | 2022-10-21 |
| 09 54 23               | Linear Metal Ceilings                               | 2022-10-21 |
| 09 58 00               | Integrated Ceiling Assemblies                       | 2012-12-31 |
| 09 63 40               | Stone Flooring                                      | 2014-12-31 |
| 09 64 23               | Wood Parquet Flooring                               | 2022-04-20 |
| 09 64 29               | Wood Strip and Plank Flooring                       | 2022-04-20 |
| 09 64 53               | Resilient Wood Flooring Assemblies                  | 2014-12-31 |
| 09 65 00.08            | Resilient Flooring for Minor Works                  | 2021-11-05 |
| 09 65 16               | Resilient Sheet Flooring                            | 2022-04-20 |
| 09 65 19               | Resilient Tile Flooring                             | 2021-11-05 |
| 09 66 13               | Portland Cement Terrazzo Flooring                   | 2021-11-05 |
| 09 66 16               | Terrazzo Floor Tile                                 | 2007-12-31 |
| 09 66 23               | Resinous Matrix Terrazzo Flooring                   | 2018-07-23 |
| 09 68 13               | Tile Carpeting                                      | 2021-11-05 |
| 09 68 16               | Sheet Carpeting                                     | 2021-11-05 |
| 09 69 00               | Access Flooring                                     | 2012-12-31 |
| 09 72 16               | Vinyl-Coated Fabric Wall Coverings                  | 2022-10-21 |
| 09 84 00               | Acoustic Room Components                            | 2022-10-21 |

|             |                                       |            |
|-------------|---------------------------------------|------------|
| 09 91 00.08 | Painting for Minor Works              | 2019-11-06 |
| 09 91 13    | Exterior Painting                     | 2016-04-18 |
| 09 91 13.23 | Exterior Painting of Structural Steel | 2019-11-06 |
| 09 91 23    | Interior Painting                     | 2016-07-26 |
| 09 96 53    | Elastomeric Coatings                  | 2019-11-06 |
| 09 96 59    | High-Build Glazed Coatings            | 2019-11-06 |
| 09 96 66    | Aggregate Wall Coatings               | 2021-11-05 |

#### **DIVISION 10 — Specialties**

|             |                                         |            |
|-------------|-----------------------------------------|------------|
| 10 11 13    | Chalkboards                             | 2012-12-31 |
| 10 11 23    | Tackboards                              | 2012-12-31 |
| 10 14 00    | Signage                                 | 2014-12-31 |
| 10 14 53    | Traffic Signage                         | 2010-06-30 |
| 10 21 13.13 | Metal Toilet Compartments               | 2012-12-31 |
| 10 21 13.19 | Plastic Toilet Compartments             | 2014-12-31 |
| 10 21 16    | Shower and Dressing Compartments        | 2012-12-31 |
| 10 22 13    | Wire Mesh Partitions                    | 2014-12-31 |
| 10 22 19.54 | Demountable Partitions - Post and Panel | 2009-12-31 |
| 10 22 19.55 | Demountable Partitions - Stud Type      | 2009-12-31 |
| 10 22 33    | Accordion Folding Partitions            | 2014-12-31 |
| 10 22 39    | Folding Panel Partitions                | 2014-12-31 |
| 10 26 00    | Wall and Door Protection                | 2011-12-31 |
| 10 28 00    | Toilet and Bath Accessories             | 2009-12-31 |
| 10 44 00    | Fire Protection Specialties             | 2008-06-30 |
| 10 51 13    | Metal Lockers                           | 2009-12-31 |
| 10 56 13    | Metal Storage Shelving                  | 2014-12-31 |
| 10 56 26.13 | Manual Mobile Storage Shelving          | 2014-12-31 |
| 10 56 26.23 | Motorized Mobile Storage Shelving       | 2014-12-31 |
| 10 75 00    | Flagpoles                               | 2011-06-30 |

#### **DIVISION 11 — Equipment**

|             |                                 |            |
|-------------|---------------------------------|------------|
| 11 11 00    | Vehicle Service Equipment       | 2013-06-30 |
| 11 11 36.10 | Electric Vehicle Charging Units | 2022-10-21 |
| 11 12 00    | Parking Control Equipment       | 2008-12-31 |
| 11 13 13    | Loading Dock Bumpers            | 2009-12-31 |
| 11 13 16    | Loading Dock Seals and Shelters | 2009-12-31 |
| 11 13 19.13 | Loading Dock Levelers           | 2008-06-30 |
| 11 13 19.23 | Loading Dock Lifts              | 2008-06-30 |
| 11 40 10    | Food Service Stock Equipment    | 2008-06-30 |
| 11 41 23    | Walk-In Coolers and Freezers    | 2011-12-31 |
| 11 51 23.13 | Metal Library Shelving          | 2008-06-30 |
| 11 53 13    | Laboratory Fume Hoods           | 2012-12-31 |
| 11 81 19    | Vacuum Cleaning Systems         | 2008-06-30 |
| 11 81 29    | Facility Fall Protection        | 2012-12-31 |
| 11 82 19    | Packaged Incinerators           | 2011-12-31 |
| 11 82 26    | Facility Waste Compactors       | 2011-12-31 |

#### **DIVISION 12 — Furnishings**

|          |                             |            |
|----------|-----------------------------|------------|
| 12 21 13 | Horizontal Louvre Blinds    | 2009-12-31 |
| 12 21 16 | Vertical Louvre Blinds      | 2008-06-30 |
| 12 35 39 | Commercial Kitchen Casework | 2017-10-27 |

|             |                           |            |
|-------------|---------------------------|------------|
| 12 35 53.13 | Metal Laboratory Casework | 2012-06-30 |
| 12 35 53.19 | Wood Laboratory Casework  | 2011-12-31 |
| 12 50 00    | Furniture                 | 2011-12-31 |

#### **DIVISION 13 — Special Construction**

|          |                        |            |
|----------|------------------------|------------|
| 13 34 19 | Metal Building Systems | 2012-12-31 |
| 13 34 23 | Fabricated Structures  | 2011-06-30 |

#### **DIVISION 14 — Conveying Equipment**

|          |                             |            |
|----------|-----------------------------|------------|
| 14 12 00 | Electric Dumbwaiters        | 2022-04-20 |
| 14 20 03 | Freight Elevators           | 2022-04-20 |
| 14 20 06 | Passenger Elevators         | 2022-04-20 |
| 14 31 00 | Escalators                  | 2022-04-20 |
| 14 32 00 | Moving Walks                | 2022-04-20 |
| 14 42 00 | Wheelchair Lifts            | 2022-04-20 |
| 14 43 19 | Suspended Powered Platforms | 2013-12-31 |
| 14 43 21 | Platform Lifts - Hydraulic  | 2013-12-31 |

#### **DIVISION 21 — Fire Suppression**

|             |                                                              |            |
|-------------|--------------------------------------------------------------|------------|
| 21 05 00    | Common Work Results for Fire Suppression                     | 2017-10-27 |
| 21 08 00    | Commissioning of Fire Suppression                            | 2021-08-09 |
| 21 12 00    | Fire-Suppression Standpipes                                  | 2022-10-21 |
| 21 13 13    | Wet Pipe Sprinkler Systems                                   | 2022-10-21 |
| 21 13 16    | Dry Pipe Sprinkler Systems                                   | 2022-10-21 |
| 21 21 16.13 | Carbon Dioxide Fire Extinguishing Equipment: Total Flooding  | 2008-12-31 |
| 21 21 16.16 | Carbon Dioxide Fire Extinguishing Systems: Local Application | 2008-12-31 |
| 21 22 00    | Clean Agent Fire Extinguishing Systems                       | 2008-06-30 |
| 21 23 00    | Wet Chemical Fire Extinguishing Systems                      | 2008-12-31 |
| 21 24 00    | Dry Chemical Fire Extinguishing Systems                      | 2011-12-31 |
| 21 30 00    | Fire Pumps                                                   | 2009-06-30 |

#### **DIVISION 22 — Plumbing**

|             |                                                       |            |
|-------------|-------------------------------------------------------|------------|
| 22 05 00    | Common Work Results for Plumbing                      | 2017-10-27 |
| 22 05 05    | Selective Demolition for Plumbing                     | 2018-01-30 |
| 22 05 15    | Plumbing Specialties and Accessories                  | 2012-12-31 |
| 22 08 00    | Commissioning of Plumbing                             | 2021-08-09 |
| 22 10 10    | Plumbing Pumps                                        | 2005-06-30 |
| 22 11 16    | Domestic Water Piping                                 | 2017-10-27 |
| 22 13 16.13 | Sanitary Waste and Vent Piping - Cast Iron and Copper | 2008-12-31 |
| 22 13 16.16 | Sanitary Waste and Vent Piping - Plastic              | 2008-12-31 |
| 22 15 00    | General Service Compressed - Air Systems              | 2005-06-30 |
| 22 31 13    | Residential Domestic Water Softeners                  | 2014-12-31 |
| 22 31 16    | Commercial Domestic Water Softeners                   | 2008-12-31 |
| 22 33 00    | Electrical Domestic Water Heaters                     | 2008-12-31 |
| 22 42 13    | Commercial Water Closets, Urinals, and Bidets         | 2014-12-31 |
| 22 42 16    | Commercial Lavatories and Sinks                       | 2008-12-31 |
| 22 42 19    | Commercial Bathtubs and Showers                       | 2008-12-31 |
| 22 47 00    | Drinking Fountains and Water Coolers                  | 2008-12-31 |

#### **DIVISION 23 — Heating, Ventilation and Air-Conditioning (HVAC)**

|             |                                                                            |            |
|-------------|----------------------------------------------------------------------------|------------|
| 23 01 05    | Operation and Maintenance of HVAC Systems During Construction              | 2005-09-30 |
| 23 01 31    | Air Duct Cleaning for HVAC Systems                                         | 2009-06-30 |
| 23 05 00    | Common Work Results for HVAC                                               | 2017-10-27 |
| 23 05 05    | Selective Demolition for Heating, Ventilating, and Air Conditioning (HVAC) | 2018-01-30 |
| 23 05 13    | Common Motor Requirements for HVAC Equipment                               | 2022-10-21 |
| 23 05 15    | Common Installation Requirements for HVAC Pipework                         | 2018-01-30 |
| 23 05 16    | Expansion Fittings and Loops for HVAC Piping                               | 2009-06-30 |
| 23 05 17    | Pipe Welding                                                               | 2008-12-31 |
| 23 05 19    | Meters and Gauges for HVAC Piping                                          | 2022-10-21 |
| 23 05 19.13 | Thermometers and Pressure Gauges - Piping Systems                          | 2022-10-21 |
| 23 05 23.01 | Valves - Bronze                                                            | 2009-12-31 |
| 23 05 23.02 | Valves - Cast Iron                                                         | 2009-06-30 |
| 23 05 23.03 | Valves - Cast Steel                                                        | 2012-12-31 |
| 23 05 23.04 | Valves - Lubricated Plug                                                   | 2012-12-31 |
| 23 05 23.05 | Butterfly Valves                                                           | 2009-06-30 |
| 23 05 29    | Hangers and Supports for HVAC Piping and Equipment                         | 2009-12-31 |
| 23 05 33    | Heat Tracing for HVAC Piping                                               | 2022-10-21 |
| 23 05 48    | Vibration and Seismic Controls for HVAC                                    | 2018-01-30 |
| 23 05 48.16 | Seismic Restraint Systems (SRS) - Type P2 Buildings                        | 2005-09-30 |
| 23 05 53    | Identification for HVAC Piping and Equipment                               | 2005-09-30 |
| 23 05 93    | Testing, Adjusting and Balancing for HVAC                                  | 2022-10-21 |
| 23 05 93.13 | Testing, Adjusting and Balancing of Fume Hoods                             | 2022-10-21 |
| 23 05 94    | Pressure Testing of Ducted Air Systems                                     | 2022-10-21 |
| 23 07 13    | Duct Insulation                                                            | 2022-10-21 |
| 23 07 16    | HVAC Equipment Insulation                                                  | 2022-10-21 |
| 23 07 19    | HVAC Piping Insulation                                                     | 2022-10-21 |
| 23 08 00    | Commissioning of HVAC                                                      | 2021-08-09 |
| 23 08 13    | Performance Verification HVAC Systems                                      | 2005-12-31 |
| 23 08 16    | Cleaning and Start-Up of HVAC Piping Systems                               | 2005-09-30 |
| 23 09 33    | Electric and Electronic Control System for HVAC                            | 2013-06-30 |
| 23 09 43    | Pneumatic Control System for HVAC                                          | 2013-06-30 |
| 23 11 13    | Facility Fuel Oil Piping                                                   | 2009-12-31 |
| 23 11 23    | Facility Natural Gas Piping                                                | 2005-06-30 |
| 23 11 26    | Facility Liquid-Petroleum Gas Piping                                       | 2017-10-27 |
| 23 21 13.01 | Hydronic Systems: Copper                                                   | 2017-10-27 |
| 23 21 13.02 | Hydronic Systems: Steel                                                    | 2017-10-27 |
| 23 21 13.03 | Press Joint Piping Systems Hydronic Systems                                | 2017-10-27 |
| 23 21 16    | Hydronic Piping Specialties                                                | 2013-06-30 |
| 23 21 23    | Hydronic Pumps                                                             | 2022-10-21 |
| 23 22 13    | Steam and Condensate Heating Piping                                        | 2017-10-27 |
| 23 22 13.13 | High Pressure Steam and Condensate Heating Piping Systems                  | 2018-01-30 |
| 23 22 16    | Steam Specialties                                                          | 2008-12-31 |
| 23 22 23    | Steam Condensate Pumps                                                     | 2008-12-31 |
| 23 23 00    | Refrigerant Piping                                                         | 2013-06-30 |
| 23 25 00    | HVAC Water Treatment                                                       | 2013-06-30 |
| 23 31 13.01 | Metal Ducts - Low Pressure to 500 Pa                                       | 2018-01-30 |
| 23 31 13.02 | Metal Ducts - High Pressure to 2500 Pa                                     | 2018-01-30 |
| 23 32 48    | Acoustical Air Plenums                                                     | 2013-06-30 |
| 23 33 00    | Air Duct Accessories                                                       | 2013-06-30 |
| 23 33 14    | Dampers - Balancing                                                        | 2013-06-30 |
| 23 33 15    | Dampers - Operating                                                        | 2013-06-30 |



|             |                                                                |            |
|-------------|----------------------------------------------------------------|------------|
| 23 33 16    | Dampers - Fire and Smoke                                       | 2022-10-21 |
| 23 33 46    | Flexible Ducts                                                 | 2022-10-21 |
| 23 33 53    | Duct Liners                                                    | 2013-06-30 |
| 23 34 00    | HVAC Fans                                                      | 2013-06-30 |
| 23 34 00.13 | Domestic Fans                                                  | 2013-06-30 |
| 23 34 23.13 | Packaged Roof and Wall Exhausters                              | 2013-06-30 |
| 23 35 16    | Engine Exhaust Systems                                         | 2013-06-30 |
| 23 36 00    | Air Terminal Units                                             | 2013-06-30 |
| 23 37 13    | Diffusers, Registers and Grilles                               | 2013-06-30 |
| 23 37 20    | Louvres, Intakes and Vents                                     | 2013-06-30 |
| 23 38 13    | Commercial Kitchen Hoods                                       | 2013-06-30 |
| 23 38 17    | Perchloric Acid Fume Hood and Exhaust System - Stainless Steel | 2010-12-31 |
| 23 38 18    | Perchloric Acid Fume Hood and Exhaust System - Plastic         | 2010-12-31 |
| 23 40 00    | HVAC Cleaning Devices                                          | 2013-06-30 |
| 23 51 00    | Breechings, Chimneys and Stacks                                | 2022-10-21 |
| 23 52 00    | Heating Boilers                                                | 2013-06-30 |
| 23 54 13    | Electric-Resistance Furnaces                                   | 2013-06-30 |
| 23 54 16    | Fuel-Fired Furnaces                                            | 2022-10-21 |
| 23 56 13.13 | Heating Solar Flat- Plate Collectors                           | 2010-12-31 |
| 23 57 00    | Heat Exchangers for HVAC                                       | 2010-06-30 |
| 23 64 13    | Absorption Water Chillers                                      | 2022-10-21 |
| 23 64 16    | Centrifugal Water Chillers                                     | 2010-06-30 |
| 23 64 19    | Reciprocating Water Chillers                                   | 2010-06-30 |
| 23 64 26    | Rotary-Screw Water Chillers                                    | 2010-06-30 |
| 23 65 10    | Condensers, Coolers and Cooling Towers                         | 2013-12-31 |
| 23 65 16    | Natural Draft Cooling Towers                                   | 2013-12-31 |
| 23 72 00    | Air-To-Air Energy Recovery Equipment                           | 2013-12-31 |
| 23 73 00.13 | Air Handling - Built-Up                                        | 2013-12-31 |
| 23 73 00.16 | Air Handling Units - Packaged                                  | 2013-12-31 |
| 23 74 00    | Packaged Outdoor HVAC Equipment                                | 2013-12-31 |
| 23 81 23    | Computer Room Air Conditioning                                 | 2011-12-31 |
| 23 81 40    | Air and Water Source Unitary Heat Pumps                        | 2011-12-31 |
| 23 81 46    | Water Source Unitary Heat Pumps                                | 2022-10-21 |
| 23 82 00.13 | Forced Air Heaters                                             | 2011-12-31 |
| 23 82 00.16 | Incremental Heating and Cooling Units                          | 2011-12-31 |
| 23 82 16.14 | Electric-Resistance Air Coils                                  | 2019-01-30 |
| 23 82 19    | Fan Coil Units                                                 | 2013-06-30 |
| 23 82 23    | Unit Ventilators                                               | 2011-12-31 |
| 23 82 33.13 | Residential Convectors                                         | 2011-12-31 |
| 23 82 33.16 | Commercial Convectors                                          | 2011-12-31 |
| 23 82 33.19 | Cabinet Convector Heaters                                      | 2013-12-31 |
| 23 82 36    | Finned Tube Radiation Heaters                                  | 2013-12-31 |
| 23 82 39    | Unit Heaters                                                   | 2011-12-31 |
| 23 82 39.23 | Unit Heaters - Electric                                        | 2011-12-31 |
| 23 82 39.26 | Liquid Heaters                                                 | 2019-01-30 |
| 23 83 00    | Radiant Heating Units                                          | 2013-12-31 |
| 23 83 00.13 | Radiant Heaters - Electric Infrared                            | 2011-12-31 |
| 23 83 13    | Radiant Heating Electric Cables                                | 2013-12-31 |
| 23 83 13.19 | Radiant Heating Electric Cables - Snow Melting                 | 2013-12-31 |
| 23 83 13.23 | Radiant Heating Electric Cables - Floor Warming                | 2013-12-31 |
| 23 84 13    | Humidifiers                                                    | 2013-12-31 |

| DIVISION 25 — Integrated Automation |                                                                          |            |
|-------------------------------------|--------------------------------------------------------------------------|------------|
| 25 01 11                            | EMCS: Start-Up, Verification and Commissioning                           | 2004-06-30 |
| 25 01 12                            | EMCS: Training                                                           | 2004-06-30 |
| 25 05 01                            | EMCS: General Requirements                                               | 2005-03-31 |
| 25 05 02                            | EMCS: Submittals and Review Process                                      | 2004-06-30 |
| 25 05 03                            | EMCS: Project Record Documents                                           | 2004-06-30 |
| 25 05 54                            | EMCS: Identification                                                     | 2004-06-30 |
| 25 05 60                            | EMCS: Field Installation                                                 | 2018-01-30 |
| 25 08 20                            | EMCS: Warranty and Maintenance                                           | 2004-06-30 |
| 25 10 01                            | EMCS: Local Area Network (LAN)                                           | 2005-03-31 |
| 25 10 02                            | EMCS: Operator Work Station (OWS)                                        | 2005-03-31 |
| 25 30 01                            | EMCS: Building Controllers                                               | 2005-03-31 |
| 25 30 02                            | EMCS: Field Control Devices                                              | 2018-01-30 |
| 25 90 01                            | EMCS: Site Requirements, Applications and Systems Sequences of Operation | 2005-03-31 |

| DIVISION 26 — Electrical |                                                                   |            |
|--------------------------|-------------------------------------------------------------------|------------|
| 26 05 00                 | Common Work Results for Electrical                                | 2013-06-30 |
| 26 05 05                 | Selective Demolition for Electrical                               | 2018-01-30 |
| 26 05 14                 | Power Cable and Overhead Conductors (1001 V)                      | 2008-06-30 |
| 26 05 20                 | Wire and Box Connectors (0-1000 V)                                | 2011-12-31 |
| 26 05 21                 | Wires and Cables (0-1000 V)                                       | 2008-12-31 |
| 26 05 22                 | Connectors and Terminations                                       | 2013-12-31 |
| 26 05 27                 | Grounding - Primary                                               | 2008-06-30 |
| 26 05 28                 | Grounding - Secondary                                             | 2011-12-31 |
| 26 05 29                 | Hangers and Supports for Electrical Systems                       | 2014-06-30 |
| 26 05 31                 | Splitters, Junction, Pull Boxes and Cabinets                      | 2008-06-30 |
| 26 05 32                 | Outlet Boxes, Conduit Boxes and Fittings                          | 2008-06-30 |
| 26 05 33                 | Raceway and Boxes for Electrical Systems                          | 2011-12-31 |
| 26 05 33.01              | Surface and Lighting Fixture Raceways                             | 2008-06-30 |
| 26 05 34                 | Conduits, Conduit Fastenings and Conduit Fittings                 | 2006-12-31 |
| 26 05 36                 | Cable Trays for Electrical Systems                                | 2018-01-29 |
| 26 05 37                 | Wireways and Auxiliary Gutters                                    | 2011-12-31 |
| 26 05 38                 | Cellular Metal Floor Raceway Fittings                             | 2013-12-31 |
| 26 05 39                 | Underfloor Raceways for Electrical Systems                        | 2014-06-30 |
| 26 05 43.01              | Installation of Cables in Trenches and in Ducts                   | 2011-12-31 |
| 26 05 80                 | Fractional Horsepower Motors                                      | 2006-09-30 |
| 26 05 81                 | Motors: 0.746 to 149 KW                                           | 2006-12-31 |
| 26 06 31                 | Diesel Electric Generating Units Appendix A - Technical Data Form | 2011-12-31 |
| 26 08 00                 | Commissioning of Electrical                                       | 2021-08-09 |
| 26 09 23.01              | Metering and Switchboard Instruments                              | 2011-12-31 |
| 26 09 23.02              | Lighting Control Devices - Photoelectric                          | 2010-12-31 |
| 26 09 23.03              | Lighting Control Devices - Incandescent Dimming                   | 2007-03-31 |
| 26 09 23.04              | Lighting Control Devices - Fluorescent Dimming                    | 2009-12-31 |
| 26 09 24                 | Lighting Control Devices - Low Voltage                            | 2006-03-31 |
| 26 09 43                 | Network Lighting Controls                                         | 2011-12-31 |
| 26 11 00.01              | Outdoor Substation to 15 KV                                       | 2006-12-31 |
| 26 11 13.01              | Unit Substation to 15 KV                                          | 2011-12-31 |
| 26 12 13                 | Liquid Filled, Medium Voltage Transformers                        | 2006-12-31 |
| 26 12 16                 | Dry Type, Medium Voltage Transformers                             | 2011-12-31 |
| 26 12 16.01              | Dry Type Transformers Up to 600 V Primary                         | 2011-12-31 |

|             |                                                             |            |
|-------------|-------------------------------------------------------------|------------|
| 26 12 16.13 | Pad-Mounted, Dry-Type Transformers for Airfield Visual Aids | 2016-07-22 |
| 26 12 19    | Pad Mounted, Liquid Filled, Medium Voltage Transformers     | 2006-12-31 |
| 26 12 21    | Transformer Vault Equipment to 15 KV                        | 2006-12-31 |
| 26 13 01    | Isolating Switches to 15 KV                                 | 2011-12-31 |
| 26 13 16    | Medium-Voltage Fusible Interrupter Switchgear               | 2011-12-31 |
| 26 13 18    | Primary Switchgear Assembly to 15 KV                        | 2011-12-31 |
| 26 18 26    | Medium Voltage Reclosers                                    | 2011-12-31 |
| 26 18 39.01 | Motor Controllers - 2000 to 5000 V (Non-Hazardous)          | 2007-03-31 |
| 26 18 41    | Interlock Systems                                           | 2011-12-31 |
| 26 22 19    | Control and Signal Transformers                             | 2011-12-31 |
| 26 23 00    | Low Voltage Switchgear                                      | 2011-12-31 |
| 26 24 01    | Service Equipment                                           | 2013-06-30 |
| 26 24 02    | Service Entrance Board                                      | 2013-06-30 |
| 26 24 13    | Switchboards                                                | 2013-06-30 |
| 26 24 13.01 | Generator Switchboard to 600 V                              | 2013-06-30 |
| 26 24 13.02 | Generator Switchboard Over 600 V                            | 2011-12-31 |
| 26 24 16.01 | Panelboards Breaker Type                                    | 2011-12-31 |
| 26 24 16.02 | Panelboards Switch and Fuse Type                            | 2013-06-30 |
| 26 24 19    | Motor Control Centres                                       | 2013-06-30 |
| 26 25 00    | Enclosed Bus Assemblies                                     | 2011-06-30 |
| 26 27 10    | Modular Wiring System                                       | 2008-06-30 |
| 26 27 16    | Electrical Cabinets and Enclosures                          | 2011-06-30 |
| 26 27 19    | Multi-Outlet Assemblies                                     | 2009-06-30 |
| 26 27 23    | Indoor Service Poles                                        | 2011-06-30 |
| 26 27 26    | Wiring Devices                                              | 2011-06-30 |
| 26 27 73    | Door Chimes                                                 | 2010-12-31 |
| 26 28 13.01 | Fuses - Low Voltage                                         | 2008-06-30 |
| 26 28 13.02 | Outdoor Load Break Switches and Fuses                       | 2011-06-30 |
| 26 28 16.01 | Air Circuit Breakers                                        | 2011-12-31 |
| 26 28 16.02 | Moulded Case Circuit Breakers                               | 2012-06-30 |
| 26 28 18    | Ground Fault Equipment Protection                           | 2011-06-30 |
| 26 28 20    | Ground Fault Circuit Interrupters - Class A                 | 2011-06-30 |
| 26 28 22    | Load Break Switches                                         | 2011-06-30 |
| 26 28 23    | Disconnect Switches - Fused and Non-Fused                   | 2013-12-31 |
| 26 29 01    | Contactors                                                  | 2011-06-30 |
| 26 29 03    | Control Devices                                             | 2011-06-30 |
| 26 29 10    | Motor Starters to 600 V                                     | 2008-12-31 |
| 26 29 33    | Controllers for Fire Pump Drivers                           | 2022-10-21 |
| 26 32 13.01 | Power Generation Diesel                                     | 2009-12-31 |
| 26 32 13.02 | Power Generation to 30 KW                                   | 2009-12-31 |
| 26 32 13.03 | Installation of Electric Power Generating Equipment         | 2011-12-31 |
| 26 32 13.04 | Diesel Electric Generating Units (Liquid Cooled)            | 2009-12-31 |
| 26 32 13.05 | Diesel Electric Generating Units (Air Cooled)               | 2009-12-31 |
| 26 32 13.07 | Diesel Electric Generating Units Appendix B Factory Test    | 2009-12-31 |
| 26 33 16    | Battery Racks                                               | 2014-06-30 |
| 26 33 43    | Battery Chargers                                            | 2011-06-30 |
| 26 33 53    | Static Uninterruptible Power Supply                         | 2017-10-27 |
| 26 33 54    | Hospital Operating Rooms Isolated Power Supply              | 2011-06-30 |
| 26 35 33    | Power Factor Correction Equipment                           | 2006-12-31 |
| 26 36 23    | Automatic Transfer Switches                                 | 2011-06-30 |
| 26 41 00.01 | Primary Lightning Arresters                                 | 2011-06-30 |
| 26 41 00.02 | Secondary Lightning Arresters                               | 2011-12-31 |

|             |                                                            |            |
|-------------|------------------------------------------------------------|------------|
| 26 41 13    | Lightning Protection for Structures                        | 2010-12-31 |
| 26 42 00    | Cathodic Protection                                        | 2009-12-31 |
| 26 42 00.01 | Telethermics - Cathodic Protection                         | 2006-12-31 |
| 26 50 00    | Lighting                                                   | 2008-12-31 |
| 26 52 00.01 | Lighting - Central Emergency System                        | 2011-12-31 |
| 26 52 13.13 | Emergency Lighting                                         | 2011-06-30 |
| 26 52 13.16 | Exit Signs                                                 | 2017-04-25 |
| 26 53 13    | Photoluminescent Signage                                   | 2013-06-30 |
| 26 55 36.13 | Medium-Intensity (M.I.) Red Flashing Obstruction Lighting  | 2016-07-31 |
| 26 55 36.16 | Medium - Intensity (M.I.) White Flashing Obstruction Light | 2016-07-31 |
| 26 55 36.19 | Low-Intensity (L.I.) Red Obstruction Lighting              | 2016-07-22 |
| 26 56 19    | Roadway Lighting                                           | 2013-12-31 |

#### **DIVISION 27 — Communications**

|          |                                                                            |            |
|----------|----------------------------------------------------------------------------|------------|
| 27 05 13 | Communications Services                                                    | 2011-12-31 |
| 27 05 26 | Grounding and Bonding for Communications Systems                           | 2006-03-31 |
| 27 05 28 | Pathways for Communications Systems                                        | 2011-12-31 |
| 27 10 05 | Structured Cabling for Communications Systems                              | 2006-09-30 |
| 27 11 20 | Terminals and Connectors for Communications Conductors - Entrance Facility | 2011-12-31 |
| 27 31 00 | Voice Communications Switching and Routing Equipment                       | 2011-12-31 |
| 27 51 16 | Public Address and Mass Notification Systems                               | 2011-12-31 |
| 27 51 23 | Intercommunications and Program Systems                                    | 2011-12-31 |
| 27 52 24 | Nurses Call Systems                                                        | 2011-12-31 |
| 27 53 13 | Clock Systems                                                              | 2010-12-31 |

#### **DIVISION 28 — Electronic Safety and Security**

|             |                                                      |            |
|-------------|------------------------------------------------------|------------|
| 28 10 00    | Access Control                                       | 2010-12-31 |
| 28 13 27    | Security Door Supervision                            | 2010-12-31 |
| 28 13 28    | Building Entrance Control System                     | 2010-12-31 |
| 28 14 00    | Access Control System Hardware                       | 2014-12-31 |
| 28 23 00    | Video Surveillance                                   | 2010-12-31 |
| 28 31 00    | Intrusion Detection                                  | 2017-10-27 |
| 28 31 00.01 | Multiplex Fire Alarm System                          | 2010-12-31 |
| 28 31 00.02 | Multiplex Fire Alarm and Voice Communication Systems | 2010-12-31 |
| 28 46 00    | Fire Detection and Alarm                             | 2006-03-31 |

#### **DIVISION 31 — Earthworks**

|             |                                        |            |
|-------------|----------------------------------------|------------|
| 31 00 00.01 | Earthwork - Short Form                 | 2010-12-31 |
| 31 00 99    | Earthwork for Minor Works              | 2021-11-05 |
| 31 05 10    | Corrected Maximum Dry Density for Fill | 2006-12-31 |
| 31 05 16    | Aggregates for Earthwork               | 2012-06-30 |
| 31 08 13    | Pile Load Testing                      | 2006-09-30 |
| 31 09 16.01 | Pile Driving Templates                 | 2006-12-31 |
| 31 11 00    | Clearing and Grubbing                  | 2021-11-05 |
| 31 14 13    | Soil Stripping and Stockpiling         | 2006-06-30 |
| 31 22 13    | Rough Grading                          | 2012-06-30 |
| 31 22 14    | Airfield Grading                       | 2012-06-30 |
| 31 22 16.13 | Roadway Subgrade Reshaping             | 2012-06-30 |
| 31 23 16.26 | Rock Removal                           | 2009-12-31 |
| 31 23 33.01 | Excavating, Trenching and Backfilling  | 2021-11-05 |

|             |                                           |            |
|-------------|-------------------------------------------|------------|
| 31 24 13    | Roadway Embankments                       | 2012-06-30 |
| 31 31 19.13 | Chemical Vegetation Control               | 2016-04-18 |
| 31 32 13.19 | Lime Soil Stabilization                   | 2006-09-30 |
| 31 32 19.13 | Geogrid Soil Stabilization                | 2021-11-05 |
| 31 32 19.16 | Geotextile Soil Stabilization             | 2016-04-18 |
| 31 32 36    | Soil Nailing                              | 2022-10-21 |
| 31 33 23    | Rock Slope Drape Mesh                     | 2022-10-21 |
| 31 33 26    | Rock Slope Pinned Mesh                    | 2022-10-21 |
| 31 33 29    | Rock Slope Drains                         | 2022-10-21 |
| 31 36 00    | Gabions                                   | 2006-09-30 |
| 31 36 19    | Gabion Mattresses                         | 2013-12-31 |
| 31 37 00    | Rip-Rap                                   | 2006-09-30 |
| 31 53 13    | Timber Cribwork                           | 2006-09-30 |
| 31 61 13    | Pile Foundations, General Requirements    | 2006-09-30 |
| 31 62 13.19 | Precast Concrete Piles                    | 2007-03-31 |
| 31 62 16.13 | Sheet Steel Piles                         | 2012-06-30 |
| 31 62 16.14 | Steel Sheet Pile Cells                    | 2006-09-30 |
| 31 62 16.16 | Steel H Piles                             | 2006-12-31 |
| 31 62 16.19 | Unfilled Tubular Steel Piles              | 2006-12-31 |
| 31 62 19    | Timber Piles                              | 2006-12-31 |
| 31 63 19    | Bored and Socketed Piles                  | 2012-06-30 |
| 31 63 19.13 | Rock Sockets for Piles                    | 2006-09-30 |
| 31 63 23    | Bored Concrete Piles                      | 2006-12-31 |
| 31 63 24    | Compacted Expanded-Base Concrete Piles    | 2006-12-31 |
| 31 63 26.16 | Concrete Caissons for Marine Construction | 2006-12-31 |

#### **DIVISION 32 — Exterior Improvements**

|             |                                                          |            |
|-------------|----------------------------------------------------------|------------|
| 32 01 11.01 | Pavement Cleaning and Marking Removal                    | 2011-06-30 |
| 32 01 11.02 | Pavement Crack Cleaning and Filling                      | 2012-06-30 |
| 32 01 13.01 | Flexible Paving Surface Treatment - Single Application   | 2009-12-31 |
| 32 01 13.02 | Flexible Paving Surface Treatment - Multiple Application | 2010-06-30 |
| 32 01 16.01 | Flexible Paving Surface Grooving                         | 2011-06-30 |
| 32 01 16.13 | Reshaping Asphalt Pavement                               | 2012-06-30 |
| 32 01 18    | Routing and Sealing Pavement Cracks                      | 2013-06-30 |
| 32 01 90.23 | Pruning                                                  | 2019-04-24 |
| 32 01 90.33 | Tree and Shrub Preservation                              | 2019-04-24 |
| 32 11 16.01 | Granular Sub-Base                                        | 2011-06-30 |
| 32 11 17    | Reshaping Granular Roadbed                               | 2006-09-30 |
| 32 11 23    | Aggregate Base Courses                                   | 2011-06-30 |
| 32 11 33    | Cement-Treated Base Courses                              | 2007-12-31 |
| 32 12 10    | Marshall Immersion Test for Bitumen                      | 2010-12-31 |
| 32 12 13.16 | Asphalt Tack Coats                                       | 2012-06-30 |
| 32 12 13.23 | Asphalt Prime Coats                                      | 2012-06-30 |
| 32 12 16    | Asphalt Paving                                           | 2011-06-30 |
| 32 12 16.01 | Asphalt Paving - Short Form                              | 2013-06-30 |
| 32 12 16.02 | Asphalt Paving for Building Sites                        | 2011-06-30 |
| 32 12 19.13 | Road-Mix Asphalt Paving Wearing Courses                  | 2012-12-31 |
| 32 12 36.14 | Asphalt Seal Coat                                        | 2013-12-31 |
| 32 12 36.16 | Coal Tar Seal Coats                                      | 2013-12-31 |
| 32 13 13    | Concrete Paving                                          | 2014-06-30 |
| 32 13 13.01 | Concrete Paving for Building Site                        | 2007-12-31 |

|             |                                         |            |
|-------------|-----------------------------------------|------------|
| 32 13 13.17 | Roller Compacted Concrete Paving        | 2012-06-30 |
| 32 14 10    | Unit Paving on Sand Bed                 | 2006-09-30 |
| 32 14 13    | Precast Concrete Unit Paving            | 2013-12-31 |
| 32 15 40    | Crushed Stone Surfacing                 | 2009-12-31 |
| 32 15 60    | Roadway Dust Control                    | 2010-12-31 |
| 32 16 00    | Curbs, Gutters and Sidewalks            | 2017-04-25 |
| 32 17 23    | Pavement Markings                       | 2017-04-25 |
| 32 21 00.01 | Well Pumps                              | 2012-06-30 |
| 32 31 13    | Chain Link Fences and Gates             | 2011-06-30 |
| 32 31 26    | Wire Fences and Gates                   | 2011-06-30 |
| 32 32 26    | Metal Crib Retaining Walls              | 2010-12-31 |
| 32 32 34    | Reinforced Soil Retaining Walls         | 2022-10-21 |
| 32 33 00    | Site Furnishings                        | 2016-04-18 |
| 32 91 19.13 | Topsoil Placement and Grading           | 2019-04-24 |
| 32 91 19.16 | Topsoil Placement for Vegetated Roofs   | 2019-04-24 |
| 32 92 19.13 | Mechanical Seeding                      | 2019-01-30 |
| 32 92 19.16 | Hydraulic Seeding                       | 2019-01-30 |
| 32 92 23    | Sodding                                 | 2019-01-30 |
| 32 93 10    | Trees, Shrubs and Ground Cover Planting | 2019-04-24 |
| 32 93 23.13 | Interior Plantings                      | 2019-04-24 |

#### **DIVISION 33 — Utilities**

|             |                                                               |            |
|-------------|---------------------------------------------------------------|------------|
| 33 05 14.03 | Telethermics Pre-Fabricated Steel Maintenance Holes           | 2013-12-31 |
| 33 05 16    | Maintenance Holes and Catch Basin Structures                  | 2013-12-31 |
| 33 07 13    | Telethermics - Thermal Insulation                             | 2010-06-30 |
| 33 07 16    | Factory Pre-Insulated Piping Systems for Utility Applications | 2013-12-31 |
| 33 11 00    | Groundwater Sources                                           | 2012-06-30 |
| 33 14 16    | Site Water Utility Distribution Piping                        | 2019-01-30 |
| 33 14 16.13 | Incoming Site Water Utility Distribution Piping               | 2017-10-27 |
| 33 31 11    | Public Sanitary Sewerage Gravity Piping                       | 2019-01-30 |
| 33 31 23    | Sanitary Sewerage Force Main Piping                           | 2019-01-30 |
| 33 32 13.13 | Packaged Sewage Lift, Wet Well Type                           | 2012-06-30 |
| 33 36 00    | Wastewater Utility Storage Tanks                              | 2016-10-26 |
| 33 36 33    | Utility Drainage Field                                        | 2012-06-30 |
| 33 41 00    | Storm Utility Drainage Piping                                 | 2019-01-30 |
| 33 41 16    | Subdrainage Piping                                            | 2011-06-30 |
| 33 42 13    | Pipe Culverts                                                 | 2011-06-30 |
| 33 46 13.01 | Foundation and Underslab Drainage                             | 2019-01-30 |
| 33 46 16.01 | Sub-Drain Backfill Sealing With Asphalt                       | 2012-06-30 |
| 33 47 13    | Pond and Reservoir Liners                                     | 2016-04-18 |
| 33 47 23    | Sanitary Sewage Lagoons                                       | 2013-12-31 |
| 33 56 13    | Aboveground Fuel - Storage Tanks                              | 2019-11-06 |
| 33 56 16    | Underground Fuel - Storage Tanks                              | 2019-11-06 |
| 33 65 13    | Telethermics - Distribution Piping - Steel                    | 2019-11-06 |
| 33 65 16    | Telethermics - Distribution Piping - PVC - FRP                | 2007-03-31 |
| 33 65 26    | Telethermics - Insulated and Plastic Jacketed Systems         | 2007-03-31 |
| 33 65 29    | Telethermics - Directly Buried, Loose Fill Insulated, Systems | 2010-12-31 |
| 33 65 33    | Telethermics - Dryable Drainable, Testable Conduit Systems    | 2017-10-27 |
| 33 65 43    | Telethermics - Steel Tunnel Systems                           | 2017-10-27 |
| 33 65 46    | Telethermics - Shallow Inverted Trench (SIT) Systems          | 2017-10-27 |
| 33 65 73    | Concrete Encased Duct Banks and Manholes                      | 2007-12-31 |



|             |                                       |            |
|-------------|---------------------------------------|------------|
| 33 65 76    | Direct Buried Underground Cable Ducts | 2009-06-30 |
| 33 71 16.01 | Electrical Pole Lines and Hardware    | 2009-06-30 |
| 33 71 73.01 | Overhead Electrical Service           | 2007-12-31 |
| 33 71 73.02 | Underground Electrical Service        | 2009-06-30 |
| 33 77 33    | Fuse Cutouts and Fuse Links - Outdoor | 2011-12-31 |

#### **DIVISION 34 — Transportation**

|             |                                                                                                   |            |
|-------------|---------------------------------------------------------------------------------------------------|------------|
| 34 43 05    | Common Work Results for Airfield Lighting                                                         | 2016-07-22 |
| 34 43 05.39 | Airfield Approach Light Support Structures                                                        | 2017-07-21 |
| 34 43 13.11 | Airfield Beacons and Towers                                                                       | 2016-07-26 |
| 34 43 13.13 | Airfield Threshold Runway Identification Lights                                                   | 2016-07-22 |
| 34 43 13.14 | Airfield Visual Alignment Guidance System                                                         | 2016-07-22 |
| 34 43 13.15 | Airfield Illuminated Ground Navigation Signs                                                      | 2016-07-26 |
| 34 43 13.16 | Airfield Runway and Taxiway Inset Lighting                                                        | 2016-07-22 |
| 34 43 13.17 | Airfield Elevated Edge Lighting                                                                   | 2016-07-26 |
| 34 43 13.18 | Airfield Runway Guard Lights                                                                      | 2016-07-26 |
| 34 43 13.23 | Airfield Simplified Short Approach Lighting System with Runway Alignment Indicator Lights (SSALR) | 2016-07-26 |
| 34 43 13.24 | Airfield Simplified Short Approach Lighting System- SSALS                                         | 2016-07-22 |
| 34 43 13.26 | Airfield Omni-Directional Approach Lighting Equipment                                             | 2016-07-26 |
| 34 43 13.30 | Airfield Medium Intensity Approach Lighting System (MALS)                                         | 2016-07-22 |
| 34 43 13.31 | Airfield Medium Intensity Approach Light System with Runway Alignment Indicator Lights (MALSR)    | 2016-07-22 |
| 34 43 13.32 | Airfield Medium Intensity Approach Lighting System with Sequenced Flashing Lights (MALSF)         | 2016-07-22 |
| 34 43 13.35 | Approach Lighting System CAT. II or CAT. III - ALSF-2                                             | 2016-07-22 |
| 34 43 13.36 | Airfield Precision-Approach Path Indicator Equipment                                              | 2016-07-26 |
| 34 43 13.43 | Airfield Apron Floodlighting                                                                      | 2016-07-26 |
| 34 43 23.16 | Airfield Wind Cones                                                                               | 2016-07-22 |
| 34 43 26.13 | Airfield Lighting Control Equipment                                                               | 2012-12-31 |
| 34 43 26.16 | Airfield Lighting PLC Control Equipment                                                           | 2016-07-22 |
| 34 43 26.19 | Airfield Lighting Regulator Assembly                                                              | 2017-07-21 |
| 34 71 13.01 | Vehicle Concrete Barriers                                                                         | 2011-06-30 |
| 34 71 13.21 | Vehicle Guide Posts                                                                               | 2011-06-30 |
| 34 71 13.22 | Vehicle Post Delineators                                                                          | 2014-06-30 |
| 34 71 13.25 | Vehicle W-Beam Guide Rail                                                                         | 2021-11-05 |
| 34 71 13.27 | Vehicle Cable Guide Rail                                                                          | 2013-06-30 |
| 34 71 13.28 | Vehicle Box Beam Guide Rail                                                                       | 2021-11-05 |
| 34 72 16    | Railway Siding                                                                                    | 2007-12-31 |
| 34 73 16.13 | Aircraft Static Grounding                                                                         | 2016-07-22 |
| 34 77 13    | Passenger Boarding Bridges                                                                        | 2010-12-31 |

#### **DIVISION 35 — Waterway and Marine Construction**

|             |                                            |            |
|-------------|--------------------------------------------|------------|
| 35 01 40.51 | Waterway Maintenance Dredging              | 2016-07-26 |
| 35 01 40.92 | Preservation of Water Courses and Wetlands | 2019-04-24 |
| 35 20 24    | Dredging                                   | 2016-07-26 |
| 35 31 19    | Revetments                                 | 2006-09-30 |
| 35 31 23.13 | Rubble Mound Breakwaters                   | 2010-12-31 |
| 35 51 23    | Pontoons                                   | 2006-12-31 |
| 35 59 13.19 | Rubber Marine Fenders                      | 2010-12-31 |
| 35 59 29    | Mooring Devices                            | 2006-12-31 |

**DIVISION 42 — Process heating, Cooling and Drying Equipment**

|          |                           |            |
|----------|---------------------------|------------|
| 42 20 00 | Process Cooling Equipment | 2017-10-27 |
|----------|---------------------------|------------|

**DIVISION 44 — Pollution and Waste Control Equipment**

|          |                                   |            |
|----------|-----------------------------------|------------|
| 44 41 13 | Commercial Water Treatment Plants | 2019-11-06 |
|----------|-----------------------------------|------------|



National Research Council Canada  
1200 Montreal Road  
Ottawa, Ontario K1A 0R6