PART 1 - GENERAL

1.1 REFERENCES

.1 American Iron and Steel Institute (AISI)

.2 American Society for Testing and Materials International (ASTM)
.1 ASTM A 167-99(2009), Standard Specification for Stainless and Heat-Resisting Chromium-Nickel Steel Plate, Sheet, and Strip.
.2 ASTM A 240/A 240M-16, Standard Specification for Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels, and for General Applications.

.3 Canada Green Building Council (CaGBC)
.1 LEED Canada 2009 for Design and Construction-2010, LEED Canada 2009 for Design and Construction Leadership in Energy and Environmental Design Green Building Rating System Reference Guide.

.4 Health Canada/Workplace Hazardous Materials Information System (WHMIS)
.1 Material Safety Data Sheets (MSDS).

.5 The Public Health and Safety Company (NSF International)

1.2 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 and datasheet and include product characteristics, performance criteria, physical size, finish and limitations and the following:
.1 Description of equipment giving manufacturers name, type, model, year and capacity.
.2 Details of operation, servicing and maintenance.
.3 Recommended spare parts list.

1.2 ACTION AND INFORMATIONAL SUBMITTALS (Cont'd)

.3 Sustainable Design Submittals:
.1 LEED Canada Submittals: in accordance with Section 01 35 21 - LEED Requirements.

.4 Quality control submittals: submit following in accordance with Section 01 45 00 - Quality Control.
.1 Manufacturer's Instructions: submit manufacturer's installation instructions and special handling criteria, installation sequence, cleaning procedures.

.5 Closeout Submittals:
.1 Provide operation and maintenance data for equipment for incorporation into manual specified in Section 01 78 00 - Closeout Submittals.

1.3 QUALITY ASSURANCE

.1 Pre-Installation Meetings: convene pre-installation meeting one week prior to beginning work of this Section and on-site installation, with contractor's representative and Departmental Representative to verify project requirements.

1.4 DELIVERY, STORAGE AND HANDLING

.1 Deliver, store and handle materials in storage and accordance with Section 01 61 00 - Common Handling Product Requirements and with manufacturer's written instructions.

.2 Delivery and Acceptance Requirements: deliver materials to site in original factory packaging, labelled iwth manufacturer's name and address.

.3 Storage and Handling Requirements:
.1 Store materials off grounds, indoors, in dry location and in accordancw with manufacturer's recommendations in clean, dry, well-ventilated area.
.2 Store and protect from nicks, scratches and blemishes.
.3 Replace defective or damaged materials with new.

1.4 DELIVERY, STORAGE AND HANDLING (Cont'd)

.4 Deliver, store and handle materials in STORAGE AND accordance with Section 01 61 00 - Common Product Requirements and with manufacturer's written instructions.

.5 Delivery and Acceptance Requirements: deliver materials to site in original factory packaging, labelled with manufacturer's name and address.

.6 Storage and Handling Requirements:

.1 Store materials off ground, indoors, in dry location and in accordance with manufacturer's recommendations in clean, dry, well-ventilated area.

.2 Store and protect from nicks, scratches, and blemishes.

.3 Replace defective or damaged materials with new.

.4 Packaging Waste Management: remove for reuse or return of pallets, crates, padding, banding, and packaging materials as specified in Construction Waste Management Plan in accordance with Section 01 74 21 - Construction/Demolition Waste Management and Disposal and Section 01 35 21 - LEED Requirements.

.1 Materials and Resources Credit MRc2.1 Construction Waste Management: Divert 50% From Landfill and MRc2.2 Construction Waste Management: Divert 75% From Landfill: prepare Construction Waste Management plan in accordance with Section 01 74 21 - Construction/ Demolition Waste Management and Disposal, 01 35 21 - LEED Requirements, and 01 78 00 - Closeout Submittals.

PART 2 - PRODUCTS

2.1 GENERAL

.1 Stainless steel: to AISI, grade 18-8, of types and finishes specified herein.

2.2 RANGES

.1 Built In Cooktop electric:
.1 Overall exterior dimensions: width: 770 mm to 785 mm x depth: 530 mm to 545 mm x height: 50 mm to 70 mm. To suit casework and countertop, to be installed in countertop cutout.
.2 Electrical specifications: 208 V, 60 Hz, to suit building power phase.
.3 Materials:
.1 Exterior exposed surfaces to be stainless steel, AISI Type 304.
.2 Other exterior surfaces: black ceramic glass.
.4 Elements: covered by black ceramic glass. 5 independent elements.
.5 Cast Metal Controls: one per heating element located at the centre front of cooktop.
.6 Acceptable manufacturers:
.1 D3 Electric Cooktop by Viking.
.2 Professional Built-in Electric Cooktop by Frigidaire.
.3 Similar unit by GE.
.4 Similiar unit by Bosch.

2.3 CONVECTION OVENS

.1 Oven, baking and roasting, convection, electric: CSA certified, electrically heated convection ovens with individually heated and thermostatically controlled compartment.
.1 Each compartment: operate as a single unit.
.2 Overall exterior dimensions: width: approximately 750 mm x depth: approximately 655 mm x height: approximately 750 mm.
.3 Electrical specifications: 208 V, 60 Hz, to suit building power phase.
.4 Mounting: built into cabinet/wall as noted on drawings.
.5 Number of compartments: 1.

2.3 CONVECTION OVENS (Cont'd)

.1 (Cont'd)

.6 Materials:

.1 Exterior exposed surfaces: stainless steel, AISI Type 304, polished to No. finish or finer.

.2 Other exterior surfaces to be baked enamel.

.7 Oven cavity: fully insulated.

.8 Door: horizontal swing, insulated.

.9 Door handle: minimum length 150 mm.

.10 Observation window: dual pane type with tempered glass.

.11 Interior lighting: controlled by exterior switch.

.12 Vent: capable of exhausting vapour from each cavity to outside.

.13 Rack supports: removable, capable of supporting minimum of 3 racks.

.14 Racks:

.1 Nickel-plated, or porcelain-coated, or stainless steel.

.2 Supply 3 racks as standard equipment.

.15 Thermostat: minimum range of 93-230 degrees C, equipped with signal light.

.16 Timer: minimum range 60 minutes, audible and visible signal to mark end of timing period.

.17 Blower: interconnected with heating elements, door actuated switch to shut off blower.

.18 Blower motor: minimum 2 speeds.

.19 Acceptable manufacturers:

.1 Built-in Premiere Electric Single Wall Oven 5 Series by Viking, horizontal swing door.

.2 Professional Built-in Electric Wall Oven by Frigidaire, horizontal swing door.

.3 Similar unit by GE.

.4 Similar unit by Bosch.

PART 3 - EXECUTION

3.1 MANUFACTURER'S INSTRUCTIONS

.1 Compliance: comply with manufacturer's written recommendations or specifications, including product technical bulletins, handling, storage and installation instructions, and datasheets.

3.2 INSTALLATION

.1 Install equipment in accordance with manufacturer's instructions.

.2 Co-ordinate connection of mechanical and electrical services.

.3 Co-ordinate with Architectural Woodwork for countertop and casework cut-out and support.

.4 Adjust equipment for smooth and proper operation.

3.3 FIELD QUALITY CONTROL

.1 Manufacturer's Services:
.1 Provide manufacturer's services consisting of product use recommendations and manufacturer's instructions. instructions.

END