

**Part 1            ADDENDUM NO.2**

**1.1                General**

- .1        This Addendum is issued prior to tender closing and shall become an integral part of the Tender, Specifications, Drawings and Contract Documents for this project.
- .2        In the event of conflicts between the various Contract Documents, the order of precedence shall be as stipulated in the General Conditions of the Contract, except that this Addendum shall take overall precedence.

**Part 2            Questions**

**Q:**        These equipment's are in the drawing. However, model numbers and brand are not mentioned in the specs or drawing. Could you please give me information for these equipment's to reapply RFE?

FF-1    FF-2    FF-4    CU-4    HRV-1   HRV-2   UH-1    UH-2 (ON THE DRAWING M2.0) UH-9    UH-5    H-1       H-2       UH-8    UH-3    UH-4    UH-6-   UH-7 (ON THE DRAWING M2.1) UH-10   UH-11   UH-12   UH-13 (ON THE DRAWING M2.2) HWT-1 (ON THE DRAWING M2.3)

**A:**        For Unit Heaters (UH) and Force Flows (FF) - see attached spec Section 22 81 24 Terminal Heat Transfer Units. For CU-4 See Specification Section 23 81 24 LAN Room AC Units, For hot water tanks See Section 22 47 00 – Plumbing Equipment. For Humidistats H-1,2 to be : BROAN DH100W DEHUMIDISTAT, C/W BUILT-IN THERMOSTAT.

**Q:**        I have a question about Section 06 40 00 Architectural Woodwork 2.2 Stainless Steel Cabinets/Counter Tops. This refers to Rooms 136 and 138. The elevations for these rooms refer to details A7.06 and A7.07, but these details are unclear as to if these cabinets and counters are stainless steel.

**A:**        Detail 7.07 is for room 112 and is not to be Stainless Steel. The Detail 7.06 in Room 138 is to be stainless steel casework and countertop.

**Q:**        I also have a question about the stainless steel corner guards. We manufacture corner guards and wanted to know if we can submit for an alternate.

**A:**        You can submit your corner guard for consideration as an equal.

**Part 3            Mechanical**

**3.1                Remote Bulb Thermostat**

- .1        Thermostat for the crawl space to be : JOHNSON 419ABC-24, 2438 CAPILLARY AND SENSING BULB C/W SUNSHIELD.

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**Part 4            Specifications**

**4.1            Add Section 23 82 00 Terminal Heat Transfer Units (See attached)**

**4.2            Section 08 36 13.0 – Sectional Metal Doors**

.1    Add Section 2.3.6 “ Standard of Acceptance: Thermostop Sentinel II Mark III-166”

**4.3            Section 08 50 00 – Aluminum Windows**

.1    Add Section

.1    2.1.9 - Classification Rating

.1    Minimum Performance Grad PG – 20

.2    Minimum Positive design Pressure – 960 PA

.3    Minimum Negative design Pressure – 960 PA

.4    Minimum water penetration test pressure – 150 PA

.5    Minimum air infiltration/exfiltration – A2

**4.4            Section 04 50 00 – Common Work Results for Masonry**

.1    Add Section 3.5.12 – In Detention areas scheduled to receive epoxy quartz flooring, rake out joint above bottom course 3mm on all faces to receive epoxy quartz base and first joint above bunk.

**Part 5            Equals Requests**

**5.1            EH PRICE – Dampers – See attached Acceptance**

**5.2            Overhead Door – Thermacore Door System - Rejected**

**END OF SECTION**







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# REQUEST FOR EQUAL

To: RCMP – Procurement & Contracting  
Can-Tec Design

Date: July 10, 2014

Attention: Cyndi Ryan

From: Katherine Anurak

Reference: RCMP Facility Building, New Construction, Island Lake, MB.

Division/Section	Specified Items	Proposed Equal
ITEM#1 BACKDRAFT DAMPERS	NAILOR	GREENHECK
ITEM#2 FIRE DAMPERS	NAILOR	PRICE

Please advise at your earliest convenience and if you require any additional information or have any questions please feel free to give me a call.

Respectfully,

KATHERINE ANURAK  
AIR DISTRIBUTION DIVISION

**Part 1            General****1.1                SECTION INCLUDES**

- .1      Cabinet unit heaters.
- .2      Electric heaters.

**1.2                RELATED SECTIONS**

- .1      Section 01 33 00 - Administrative Requirements.
- .2      Section 01 44 00 - Quality Assurance.
- .3      Section 01 61 00 - Common Product Requirements.
- .4      Section 01 78 10 - Execution Requirements.
- .5      Section 25 90 00 - Sequence Of Operation.
- .6      Section 26 05 80 - Equipment Wiring:
  - .1      Electrical characteristics and wiring connections.
  - .2      Installation of room thermostats.
  - .3      Electrical supply to units.

**1.3                SUBMITTALS FOR REVIEW**

- .1      Section 01 33 00: Procedures for submittals.
- .2      Product Data: Provide typical catalogue of information including arrangements.
- .3      Shop Drawings:
  - .1      Indicate cross sections of cabinets, grilles, bracing and reinforcing, and typical elevations.
  - .2      Submit schedules of equipment and enclosures typically indicating length and number of pieces of element and enclosure, corner pieces, end caps, cap strips, access doors, pilaster covers, and comparison of specified heat required to actual heat output provided.
  - .3      Indicate mechanical and electrical service locations and requirements.

**1.4                SUBMITTALS FOR INFORMATION**

- .1      Section 01 33 00: Submittals for information.
- .2      Manufacturer's Instructions: Indicate installation instructions and recommendations.

**1.5                SUBMITTALS AT PROJECT CLOSEOUT**

- .1      Section 01 78 10: Submittals for project closeout.

- .2 Project Record Documents: Record actual locations of components and locations of access doors in radiation cabinets required for access or valving.
- .3 Operation and Maintenance Data: Include manufacturer's descriptive literature, operating instructions, installation instructions, maintenance and repair data, and parts listings.
- .4 Warranty: Submit manufacturer warranty and ensure forms have been completed in Owners name and registered with manufacturer.

**1.6 QUALITY ASSURANCE**

- .1 Manufacturer Qualifications: Company specializing in manufacturing the Products specified in this section with minimum three years documented experience.

**1.7 REGULATORY REQUIREMENTS**

- .1 Products Requiring Electrical Connection: Listed and classified by CSA as suitable for the purpose specified and indicated.

**1.8 WARRANTY**

- .1 Section 01 78 10: Submittals for project closeout.
- .2 Provide one year manufacturer's warranty.

**Part 2 Products****2.1 CABINET UNIT HEATERS**

- .1 Manufacturer: Ouellett.
- .2 Other acceptable manufacturers offering equivalent products.
  - .1 Substitutions: Refer to Section 01 62 00.
- .3 Coils: Durable tubular heating element with fins.
- .4 Cabinet: 18 GA steel with exposed corners and edges rounded, and integral bottom air outlet.
- .5 Finish: Factory applied baked epoxy/polyester paint as selected on visible surfaces of enclosure or cabinet.
- .6 Fans: Centrifugal forward-curved double-width wheels, statically and dynamically balanced, direct driven, 160cfm.
- .7 Control: Built-in thermostat with tamperproof control knob, factory wired, located in cabinet.
- .8 Electrical Characteristics: See Schedule.

**2.2 ELECTRIC UNIT HEATERS**

- .1 Manufacturer: Modine. Ouellett
- .2 Other acceptable manufacturers offering equivalent products.
  - .1 Ouellett.
  - .2 Substitutions: Refer to Section 01 62 00.
- .3 Assembly: UL listed and labelled assembly with terminal box and cover, and built-in controls.
- .4 Heating Elements: Enclosed copper tube, aluminum finned element of coiled nickel-chrome resistance wire centred in tubes and embedded in refractory material. Exposed helical coil of nickel-chrome resistance wire with refractory ceramic support bushings.
- .5 Cabinet: 1.2 mm steel with easily removed front panel with integral air outlet and inlet grilles.
- .6 Element Hangers: Quiet operating, ball bearing cradle type providing unrestricted longitudinal movement, on enclosure brackets.
- .7 Fan: Direct drive propeller type, statically and dynamically balanced, with fan guard.
- .8 Motor: Permanently lubricated, sleeve bearings for horizontal models, ball bearings for vertical models.
- .9 Control: Separate fan speed switch and thermostat heat selector switch, factory wired, with switches built-in behind cover. Provide thermal overload.
- .10 Electrical Characteristics: See Schedule
  - .1 Disconnect Switch: Factory mount disconnect switch.
  - .2 Refer to Section 26 05 80.

**Part 3 Execution****3.1 INSTALLATION**

- .1 Install to manufacturer's instructions.
- .2 Install equipment exposed to finished areas after walls and ceiling are finished and painted. Avoid damage.
- .3 Protection: Provide finished cabinet units with protective covers during balance of construction.
- .4 Unit Heaters: Hang from building structure, with pipe hangers anchored to building, not from piping. Mount as high as possible to maintain greatest headroom unless otherwise indicated.



- .5 Cabinet Unit Heaters: Install as indicated. Coordinate to assure correct recess size for recessed units.
- .6 Install electric heating equipment including devices provided by manufacturer but not factory-mounted. Provide copy of manufacturer's wiring diagram submittal. Install electrical wiring to manufacturer's submittals and Section 26 05 80.

**3.2 CLEANING**

- .1 After construction is completed, including painting, clean exposed surfaces of units. Vacuum clean coils and inside of cabinets.
- .2 Touch-up marred or scratched surfaces of factory-finished cabinets, using finish materials provided by manufacturer.
- .3 Install new filters.

**3.3 SCHEDULES**

.1 Cabinet Unit Heaters

<b>Drawing Code</b>	<b>FF-1</b>	<b>FF-2</b>	<b>FF-3</b>	<b>F-4</b>
Location	Main entrance (Rm 100)	Rear exit (Rm 109)	Cell exit door (Rm 133)	Mech'l rm exit (Rm 120)
Manufacturer	Ouellett	Ouellett	Ouellett	Ouellett
Model	OACU02008	OACU02008	OACP02000	OACU01502
Arrangement	Wall mount, recessed	Wall mount, recessed	Ceiling mount, recessed	Wall mount, recessed
Heat Output	2000W	2000W	2000W/1500W	1500W
Fan	160cfm	160cfm	160cfm	160cfm
Voltage/ Phase	208V/ 1PH	208V/ 1PH	240-208V/ 1PH	120V/ 1PH

.2 Electric Unit Heaters

<b>Drawing Code</b>	<b>UH-1,2</b>	<b>UH-3,4,5,6,7,8,9</b>	<b>UH-10,11</b>	<b>UH-12</b>	<b>UH-13</b>
Location	Rm 124	Crawlspace	Garage	Garage	Mech'l mezzanine
Manufacturer	Modine	Modine	Modine	Modine	Modine
Model	HER150	HER50	HER100	HER50	HER50
Heat Output	15000W	5000W	10000W	5000W	5000W
Fan	830cfm	530cfm	530cfm	530cfm	530cfm
Voltage	208V	208V	208V	208V	208V
Phase	3	3	3	3	3

**END OF SECTION**