

ADDENDUM NUMBER: ONE

ISSUED BY: SEPW Architecture Inc.
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**PROJECT: MECHANICAL UPGRADE WORKS BUILDING TENDER
PACKAGE TWO
REGINA, SK.**

This Addendum forms part of the Contract Documents and amends the original Drawings and Specifications dated 2015-09-25, previous Addenda if applicable and as noted below. This Addendum consists of 4 pages.

Ensure that all parties are aware of all items included in this Addendum.

A-1-1 REF. MECHANICAL SPECIFICATIONS SECTION - 25 05 01

- 1.7.1 Revise to read: “The existing EMCS controls system currently installed in the building is Honeywell and that the EMCS controls contractor shall be Honeywell certified and approved to perform revisions to the existing Honeywell controls system. The EMCS controls contractor shall be Honeywell certified and approved to provide new Honeywell components and equipment.”

A-1-2 REF. DRAWING A2.1

- .1 ADD GENERAL NOTE 3: ‘Patch and repair partitions from new Mechanical / Electrical work – refer to Mechanical / Electrical. Paint partition approximately 1 meter beyond repairs to match existing.’

A-1-3 REF. DRAWING A2.2

- .1 ADD GENERAL NOTE 1: ‘Patch and repair partitions from mechanical/electrical removals and new work – Refer to Mechanical / Electrical. Paint partition approximately 1 meter beyond repairs to match existing.’

A-1-4 REF. DRAWINGS M1.1, M1.2, M2.1, M2.2, M3.1 & M4.1

- .1 Reuse existing control valves, valves, and insulation blankets from the existing air handling unit located above washroom area that is shown as being removed to stockpile. Reuse these components on the new air handling unit AHU-1. Modify, revise, and adjust to place them into proper working condition and operation as required.
- .2 Reuse existing control valves, valves, and insulation blankets from the existing make-up air unit that is shown as being removed to stockpile. Reuse these components on the new make-up air units. Modify, revise, and adjust to place them into proper working condition and operation as required.

- .3 Reuse any and all stockpiled DDC control components, switches, and/or devices that are removed with equipment under this contract. Modify, revise, and adjust the control devices as required. Confirm DDC control equipment prior to start of construction.
- .4 Provide removable insulation blankets on all heating and heat pump loop system equipment, valves, and components that require regular maintenance access that are being installed or modified under this contract. Refer to specifications for insulation blanket requirements.

A-1-5 REF. DRAWING M2.2

- .1 Reference Detail One: New supply diffuser, branch ductwork, and fire damper as shown serving Vestibule #143 is to be included in this contract.

A-1-6 REF. DRAWING M3.1

- .1 Provide 38mm supply and return heating pipe connections for new air handling unit AHU-1, Extend 38mm supply and return heating pipe from new 75mm heating supply and return mains to new unit as per 1/MR-2. Piping to be installed in reverse return configuration.
- .2 Provide 38mm supply and return heat pump loop pipe connections for new air handling unit AHU-1, Extend 38mm supply and return heat pump loop pipes from new 75mm heating supply and return heat pump loop mains to new unit as per 1/MR-2. Piping to be installed in reverse return configuration.
- .3 Replace removed/lost glycol solution that was removed/lost under this contract. Glycol solution to be 33% and is to match existing glycol.
- .4 All Heating Systems and Heat Pump Systems are existing with 33% propylene glycol. Replace, provide, and fill any lost glycol solution that was removed. New propylene glycol solution to match existing glycol. Confirm with owner representative prior to start of construction.
- .5 Contractor is to take three (3) 2 liter samples of system water in a clean glass sealable containers from each Heating and Heat Pump Loop system prior to the start of construction. Turn two (2) samples from each system over to the mechanical consultant and the contractor shall retain the third sample for future glycol condition assessments that may be needed in the event of a system contamination. Replace removed glycol solution that was removed to match existing glycol.

A-1-7 REF. DRAWING M4.1

- .1 Reference MUA-1 Hot Water Heating Piping Schematic, 1/M4.1: Provide side stream filters assembly on heating circulation pumps assembly. Reference mechanical specifications for filter assembly details.

- .2 Reference MUA-1 Geothermal Piping Schematic, 2/M4.1: Provide side stream filters assembly on heating circulation pumps assembly. Reference mechanical specifications for filter assembly details.
- .3 Reference MUA-2 Hot Water Heating Piping Schematic, 3/M4.1: Provide side stream filters assembly on heating circulation pumps assembly. Reference mechanical specifications for filter assembly details.
- .4 Reference Heat Exchanger Schedule:
 - .1 Revise HE-1 Cooling Entering Water Temperature to 187°F.
 - .2 All heat exchangers to have flanged connection fittings.
 - .3 All heat exchangers to have a minimum of 3°F differential approach temperatures.
- .5 Provide isolation valves c/w unions or flanged fittings on control valves to allow maintenance to isolate and remove control valve while utilizing the bypass valve to maintain operation of unit.
- .6 All equipment specified with VFD drives are to have the VFD drive supplied by the manufacturer. Where new VFD drives have been specified for existing equipment or where VFD drives are not supplied by the manufacturer then the Controls contractor shall provide the VFD drive as per the mechanical controls specifications.

.7 REF. Equipment Schedule: Equals

<u>Item:</u>	<u>Specified:</u>	<u>Equal:</u>
Make Up air unit	York	Engineered Air Titan Daikin ICE Trane
Air Handling unit	York	Engineered Air Dunham Bush Daikin Trane
Exhaust Fans	Greenheck	Soler & Palau Loren Cook Twin City Broan
Heat Exchanger	Bell & Gossett	APV Taco
Dampers (fire, backdraft, motorized)	Tamco	Ventex Alumavent
VAV and Fan Powered Boxes	Price	Nailor
Grilles, Registers, Diffusers	Price	Tuttle & Baily Nailor Titus
Variable Frequency Drives		ABB
Pumps	Bell & Gossett	Taco

Expansion Tanks	Bell & Gossett	Taco Amtrol
Air Separators		Taco
Glycol Feeder	Axiom Industries	Hydronic System Sentry
Flow Control Valves	Griswold	Nexus
Louvers	Price	Ventex
Monoxide Detector	Quatrosense	Armstrong Monitoring

END OF ADDENDUM NO. 1