

Addendum Addenda

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| No./No 1 |
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| Project Description / Description de projet U61 - Free Cooling & Chiller Replacement | | |
| Project No./No de projet 5886 | Departmental Representative / représentant ministériel Benoit Huot | Date 13-Oct-2021 |
| Solicitation No./N° de sollicitation 21-58061 | | |
| Notice: This addendum shall form part of the tender documents and all conditions shall apply and be read in conjunction with the original plans and specifications. | | |
| Nota: Cet addenda fait partie intégrale des dossiers d'appel; toutes les conditions énoncées doivent être lues et appliquées en conjonction avec les plans et les devis originaux. | | |

Item No
Questions

Description

- 1.1 Can Daikin be considered as an acceptable manufacturer for the air cooled chiller?**

- Daikin is considered an acceptable manufacturer. Note that the performance data and specifications must be met. Any changes resulting from using an alternate chiller must be coordinated with other divisions (including structural with regards to dimensions). Contractor must carry all costs associated with an alternate chiller. Note clearance around the chiller must be maintained in accordance with manufacturer's instructions. Note that valve 61CV001 is sized for the chiller's minimum flow. If the alternate chiller has different minimum flow, the control valve must be revised accordingly.
- 1.2 Can Bell and Gossett and Tyco be considered as an acceptable manufacturer for the chilled water pumps?**

- Bell & Gossett and Tyco are considered an acceptable manufacturer. Note that the pumps must match the performance data shown on the equipment schedule (HP, flow, etc.) and pumps must meet specifications including ASHRAE 90.1. Any changes resulting from using an alternate pump must be coordinated with other divisions. Contractor must carry all costs associated to an alternate pump. Note clearance around the chiller must be maintained in accordance with chiller manufacturer's instructions.
- 1.3 The control valves schedule on drawing 5886-M01 calls for the existing 3-way valves to be replaced with new 2-way valves. Piping to be adjusted and new insulation to be provided? What is the pipe type currently used at the fan coils and what insulation to use?**

- Pipe to be as per Section 23 21 13.02 – Hydronic Systems: Steel, article 2.1. Refer to Section 23 07 15 for chilled water insulation requirements.

- 1.4 Who's responsible to dispose the existing glycol in the system?**
- Contractor is responsible for removal and disposal of the glycol, and in accordance with the applicable regulations.
- 1.5 Can the balancing be performed during regular hours or must be done after hours?**
- Balancing can be performed during regular normal hours.
- 1.6 Is there any asbestos in the building?**
- The chilled water system piping does not have asbestos. The building's designated substance report will be provided to the successful bidder for reference.
- 1.7 The thrust block details shown on drawing 5886-M09 are only applicable if the soil has a minimum soil bearing capacity of 100kPa. Was there a study performed to determine that the soil capacity meets this capacity?**
- Yes. Geotechnical report will be provided to the successful bidder. Note, the Contractor must have a Geotechnical Engineer (Hired by Contractor) inspect and approve the bearing surfaces prior to placing concrete. The thrust blocks must also be inspected and approved by Civil Engineer (Hired by Contractor) prior to backfilling.
- 1.8 Specifications are calling for an independent third party Cx agent to oversee commissioning. Can you please confirm this requirement?**
- Yes. We would like to have an independent 3rd party Cx agent on this project. This person/company must report directly to the Departmental Representative and cannot be under the Contractor's regular payroll (independent).
- 1.9 Can Carrier be listed as an acceptable manufacturer for the air cooled chiller?**
- Carrier is not approved due to larger dimensions and clearance requirements recommended by manufacturer.

1.10

The fittings for the below ground chilled water piping are supplied uninsulated. Please clarify insulation requirements for buried pipe elbows.

- Yes, the fittings are uninsulated from manufacturer. The Contractor is responsible to provide insulation for fittings as per Section 23 21 13.02, article 2.2.6. See article 2.2.5 on same section for insulation requirements and refer to drawing detail 1/M09 for thickness.

1.11

Is there storage available onsite for the temporarily removed metal screen siding?

-Yes exterior storage is available and will be discussed with departemental representative at the kick off meeting.

1.12

Are there washroom available onsite?

- No, contractor must provide a portable toilet and hand washing station.

1.13

We would like to request that Urecon be considered an alternate to the Perma-Pipe system specified on this project. See attached spec sheet for

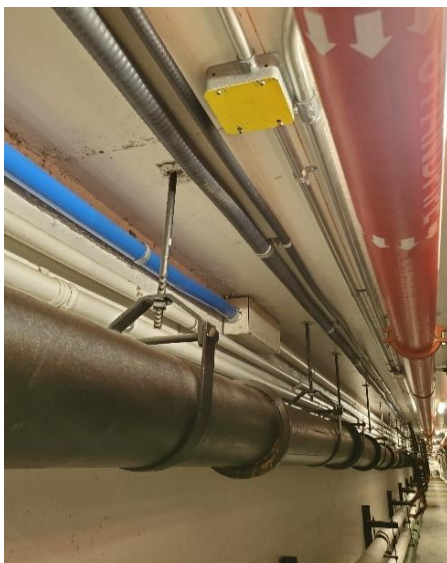
_ Proposed product is not an approved alternate to the specified pipe. The system proposed uses a tape jacket and the specified product is a seamless extruded jacket. The jacket thickness for the specified product is 100mils up to 12in diameter, the proposed jacket is 50mils up to 16in diameter.

1.14

Electrical panel 'PD1' pictures



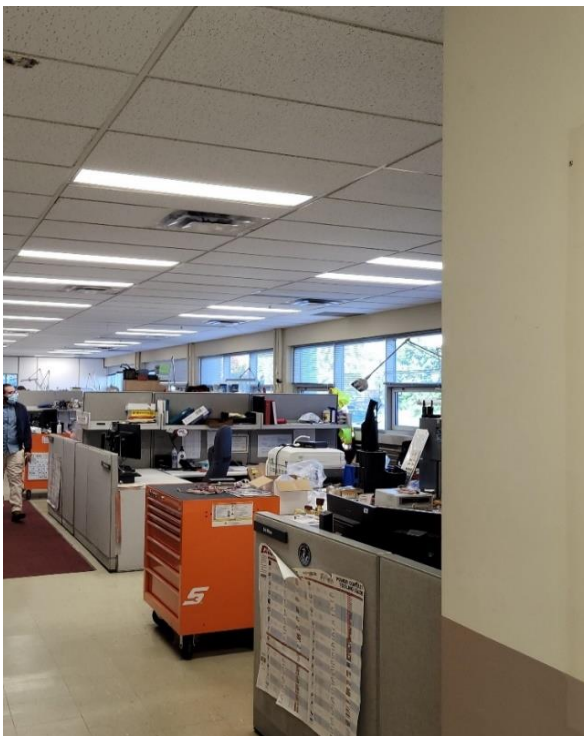
1.15 Tunnel pictures



1.16 Office and workshop pictures and ceiling height

Workshop and offices on ground floor have a 13' height from slab to slab. The suspended ceiling found in office on the ground floor is 11' from the floor with a 2 foot plenum.

Office space on 2nd floor have a 11' height from slab to slab. The suspended ceiling is 9' from the floor with a 2' plenum.



1.17

Contractor to carry a cash allowance of \$5000.00 to hire movers as required to re-balanced existing balancing valves as indicated on drawing M01 throughout the building , Contractor to provided backups (invoice) from movers , the total value will be adjusted as per invoice provided and the contract will be adjusted accordingly .(please see attached revised cost breakdown required with bids)

1.18

Attached Mandatory Attendance sheet

End.



COST BREAKDOWN FOR FIXED PRICE CONTRACT

| Description and location of work | | | Request no. 5886 | | Page 1__ of 1__ |
|----------------------------------|---|---------------|---------------------|---------|-----------------|
| U61 Chiller Replacement | | | Contract no. | | |
| | | | | | |
| Item No. | Description | Value of Item | % Done | | Amount to Date |
| | | | This period | To Date | |
| 1 | General Contractor / Entrepreneur Général | | | | |
| 2 | Mobilization / Mobilisation | | | | |
| 3 | Structural / Structure (S01,S02) | | | | |
| 4 | Architectural / Architecture (A01,SP01) | | | | |
| 5 | Mechanical/Mécanique Démolition | | | | |
| 6 | Chiller / Refroidisseur | | | | |
| 7 | Pumps and new Control valves Pompe et valve de contrôle | | | | |
| 8 | Mechanical Piping and Fittings / Tuyauterie et Raccords Mécaniques | | | | |
| 9 | Pipe Insulation / Calorifuge Tuyauterie | | | | |
| 10 | Mechanical Labour / Main D'oeuvre (Mécanique) | | | | |
| 11 | Controls / Régulation | | | | |
| 12 | Electrical Labour / Main D'oeuvre (Électrique) | | | | |
| 13 | Electrical (wiring, conduit and breaker) / Electrique (cablage, conduit, et disjoncteurs) | | | | |
| 14 | Commissioning / Mise en service | | | | |
| 15 | Balancing / Équilibrage | | | | |
| 16 | Seismic / Seismique | | | | |
| 17 | Demobilization Démobilisation | | | | |
| 18 | Closeout Documents Documents de Fermeture | | | | |
| 19 | Movers (Addendum #1_Item_1.17) Déménageur (Addenda #1_Item_1.17) | \$5000 | | | |
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Mandatory Site Visit Attendance / Visite de chantier obligatoire

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| Project Description / Description de projet U61 - Free Cooling & Chiller Replacement | | | Closing Date / Date de fermeture October 21st 2021 2:00 PM | |
| Solicitation No./N° de sollicitation 21-58061 | | Project No./No de projet 5886 | | 1st Showing / 1er visite October 6 2021 12:00 AM |
| Departmental Representative / représentant Benoit Huot | | Signature | Alternate / Substituts October 12th 2021 | Question October 14th 2021 |
| | | | | 2nd Showing / 2ieme visite October 8 2021 12:00 AM |

| COMPANY/ENTREPRENEUR | NAME/NOM | SIGNATURE | PHONE/TELEPHONE | EMAIL/COURRIEL |
|-----------------------|-----------------|-------------|-----------------|--|
| Gannon Blackburn | Corey Lees | October 6th | 613-859-2653 | clees@gbeinc.ca |
| Baxtec | Alain Routhier | October 6th | 613-738-7450 | arouthier@baxtec.com |
| Climate Works | Brett Reid | October 6th | 613-297-4091 | breid@climateworks.ca |
| Thompson boiler works | Claude Turpin | October 6th | 613-227-8893 | estimating@thompsonboilerworks.ca |
| TPH | Kevin McNeil | October 6th | 613-979-2038 | kevinmcneil@tphinc.ca |
| Seamless Mechanical | Nicolas Vinette | October 8th | 613-406-9324 | nick@seamlessmech.com |
| Black & McDonald | Calum Mackay | October 6th | 613-407-4912 | cmackay@blackandmcdonald.com |
| Richie's Welding | Daniel Akat | October 8th | 613-909-4157 | daniel@ritchieswelding.ca |
| Modern Niagara | Jason Chapman | October 8th | 613-223-8627 | jason.chapman@modernniagara.com |
| Carleton electric | Mark Conrad | October 8th | 613-880-2260 | mconrad@carltonelectric.com |
| F.trottier | Hamid Zeghoud | October 8th | 613-745-8688 | Gabrielle@trottier.ca |
| TPH | Kevin McNeil | October 8th | 613-979-2038 | kevinmcneil@tphinc.ca |
| McNolty | Chris Smith | October 8th | 613-668-8573 | chris@mcnolty.ca |
| Century | Greg Lundy | October 8th | 613-726-1539 | glundy@centurymechanical.com |
| Plan Group Inc | Jacob Thomas | October 8th | 613-797-6900 | jacthomas@plan-group.com |

