

**INVITATION TO TENDER (“ITT”) No. PS20210981
CONTRACTOR FOR NEIGHBOURHOOD ENERGY UTILITY (NEU) FALSE CREEK ENERGY
CENTRE (FCEC) SITE PREPARATION FOR CONSTRUCTION**

QUESTIONS AND ANSWERS NO. 4

ISSUED ON: November 24, 2021

Q4.1	Are the existing pavers required to be removed, grouted in place?
A4.1	To the best of our knowledge and based on the specification for the paver installation at the time of original construction, the pavers should be on sand over drainage rock or watering proofing on slab. Please refer to the attached Specification 02781 used in the original construction and provided here as a reference document only.
Q4.2	Drawings SW-001 & SW-002 have many notes shown not in red. Are these notes required as part of this scope? (also why do these drawings say “optional”?)
A4.2	Drawing SW-001 - The scope of work is shown in red only. Drawing SW-002 - Notes in red are included in the scope of work <u>as well as</u> “Sequence of Construction” (shown in the top middle part of the drawing) - Phase 1, Phase 2, Phase 3 (incorrectly shown as Phase 2) and Phase 4, (incorrectly shown as Phase 3) and “Roofing System Detail” shown in the top right of the drawing. The drawings have been amended to take the word “optional” out. Refer to ADD 3.
Q4.3	Are we required to put the panels back into place following the installation of the heat pumps, or is this part of the other contractor’s scope?
A4.3	The selected Contractor for this project is not required to put the panels back in place; this is a requirement for the Heat Pump Contractor.

END OF Q&A No. 4

1 GENERAL

1.1 Work Included

- .1 Supply and installation of precast concrete pavers on sand over drainage rock or waterproofing on slab. Refer to Landscape Details for build-up.

1.2 Related Work

- .1 03350 Concrete Finishing

1.3 Submittals

- .1 Supply samples of concrete paver for approval by the Consultant. These samples shall match in colour samples available at the Consultant's office.

1.4 Product Delivery, Storage and Handling

- .1 Deliver materials to the job site in their original unopened packages and containers bearing the manufacturer's label or other identification.
- .2 Store materials and protect from damage in accordance with the manufacturer's recommendations.

1.5 Conditions

- .1 Perform no work under environmental conditions that would prejudice the performance of this work.
- .2 Construction work shall be completed in areas to receive pavers.

1.6 Protection

- .1 Protect the work of this section from damage resulting from the work of other sections. Furnish this protection, if necessary.

2 PRODUCTS

2.1 Unit Pavers

- .1 Paving:
- .2 Old County Stone Pavers, or approved equal. Types 1, 2 and 3. Pavers laid out as per drawings. Pavers on pea gravel. Color to be Charcoal. Pattern per drawings. By Abbotsford Concrete Products.
- .3 All paved areas to slope to drain min. 2%.

2.2 Paver Materials

- .1 Materials shall conform to the following applicable specifications:

- .1 Portland Cement: Portland Cement shall conform to the requirements of CSA Standard A5, Portland Cements.
- .2 Aggregates: Aggregates shall conform to the requirements of CSA Standard A23.1, Concrete Materials and Methods of Concrete Construction, except when a special manufacturing process may require a grading or a material which does not conform to this standard.
- .3 Admixtures: If required to achieve desired colour, an admixture other than an inorganic oxide colour pigment shall conform to the requirements set forth in CSA Standard A23.1.
- .4 Integral coloring pigments of the inorganic metal oxide type, if required to achieve desired colour, shall conform to British Standard 1014.

2.3 Physical Requirements

- .1 Transverse Strength: When tested in the manner as described in Clause 8.1 of the Standard, slabs 2" (5 cm) thick or 1 5/8" (4cm) thick shall support, for at least one minute, a total load of not less than 1,250 pounds (570 kg) for each 1 foot (30.5 cm) of width.
- .2 Water Absorption: When tested in the manner described in Clause 8.2 of the Standard, the average increase in weight by absorption of water shall not exceed 7% of the dry weight after 24 hours immersion.

2.4 Permissible Variations of Pavers

- .1 The length and width of the individual slabs are allowed a tolerance of $\pm 3/32"$ (2.4mm).

2.5 Filter Cloth

- .1 Filter Cloth: 100% polyester type, protective mat as manufactured by Lexcan Industrial Supply Ltd., or Fabrene VIE as manufactured by DuPont Canada Inc., or approved equal.

3 EXECUTION

3.1 Workmanship

- .1 Installation of Concrete Pavers-on-Slab:
 - .1 Install pavers on pea gravel setting bed as per manufacturer's installation instructions.
 - .2 Place pavers in pattern shown, top flush with curbs, banding, or other boundaries. Spaces between pavers shall not exceed 1/12" (2 mm).
 - .3 Use only full size pavers. If cutting is required, obtain the Consultant's approval prior to cutting pavers.

3.2 Alignment Control

- .1 Carefully regulate placement procedures to maintain the finished work within the following tolerances:

- .1 Finished surface of pavers shall be within a tolerance of $\pm 1/4"$ (6 mm) with respect to the designated grade and cross section.
- .2 Maximum allowable irregularity in the finished surface of pavers shall be $1/4"$ (6 mm), measured from a 16' (5 m) straight edge.
- .3 Pavers shall be installed such that no ponding of surface water occurs.

3.3 Installation of Filter Cloth

- .1 Install filter cloth as shown on the drawings and as recommended by relevant manufacturers.

3.4 Clean-Up

- .1 Upon completion of all sheet membrane waterproofing, leave work in perfect condition. As the work proceeds, remove from the site all debris resulting from the work of this section.
- .2 Protect adjacent surfaces and drains from any damage or plugging caused by the work of this section.

END OF SECTION