

**INVITATION TO TENDER "ITT" NO. PS20180897  
CONSTRUCTION SERVICES FOR PUMP STATION REPLACEMENT AND WASHROOM  
ADDITION**

**QUESTIONS AND ANSWERS NO. 3**

ISSUED ON FEBRAURY 4, 2019

Q1	<ul style="list-style-type: none"> <li>CP-1 BOM DWG E204 item #10 shows qty.2 HGF5ETHSS Data Interface Port. These items are not shown on the layout drawings. Please indicate location for installation of these components.</li> <li>DWG E-501 shows four enclosure cooling fans which are not shown on the layout drawings or BOM. Please indicate if specific model of fans should be used and location for installation of these components.</li> </ul> <p>Please also note: Specification section 16225 2.9.2 indicate Approved AHF as Sinexel AHF/90. Please note that Arrow Speed Controls is current distributor for Sinexel products.</p>
A1	<p>CP-1 BOM Item #10 should be revised to qty. 0, the data interface ports are not required.</p> <p>Include 2x Hammond PF Gen 4 series 65CFM Filterfans (or equivalent) complete with grill and filter and 2 Louvered Exhaust Filters. Install as shown on attached E202 markup.</p>
Q2	Who is responsible for the Temporary Special Zone permit and will clarify traffic restrictions.
A2	<p>Contractor is responsible to apply and obtain a Temporary Special Zone permit and pay the associated fees. For the duration of the project, parking adjacent to the construction area is acceptable by the City as long as it's used for the execution of works. There are no traffic time restrictions for this work provided one lane each direction is retained on Glen Dr. and E 7th St.</p> <p>Contractor is responsible to coordinate traffic impacts and restrictions with VCC and nearby businesses and residents. The bike facilities must be retained at all times, a minimum of 1.5m per direction (3.0m combined facility).</p>
Q3	<p>For the Glen Pump Station Project currently out for tender, the Active Harmonic Filter now is branded 3 Phase Power (we dropped the Sinexcel name). See attached brochure and manual.</p> <p>Could you please refer to the new model number 3 Phase Power 3PPSAHF.090.6.3F.W.D for this project?</p>

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	<p><b><u>2.9 Active Harmonic Filter</u></b></p> <p>.1 Provide 600V active harmonic filter complete with:</p> <p>.1 90 A rated capacity,</p> <p>.2 RS485 &amp; Ethernet (RJ45) communication ports,</p> <p>.3 Modbus (RTU) communication protocol,</p> <p>.4 2<sup>nd</sup> to 50<sup>th</sup> order harmonic filtering,</p> <p>.5 Greater than 95% efficiency,</p> <p>.6 Adjustable power factor, and</p> <p>.7 Fault alarm.</p> <p>.2 Approved: 3 Phase Power SinexcelAHF/90.</p>
A3	Please use new model number: 3 Phase Power 3PPSAHF.090.6.3F.W.D
Q4	Form of Agreement page AGT13, GC.3 Personal Examination states "The Contractor assumes the risk of unforeseen conditions & agrees to complete the Work under whatever circumstances may develop". Please can the intent of this clause be clarified, the statement is too broad & impossible to quantify. Generally in our experience the Owner assumes the risk of items that are unforeseeable through review of the contract documents.
A4	The Form of Agreement is based on the City's standard template for this type of work.
Q5	Form of Agreement page AGT17, GC.10 Delays in Progress of the Work, Item c states "If the Contractor is delayed in the performance of the Work by labour strikes, fire, or unforeseeable causes beyond the Contractor's controls, The Contractor shall not be entitled to payment for any costs, loss, or damages incurred as the result of such delay". Please can the intent of the word unforeseeable causes be clarified, the word is too broad. Generally in our experience if the project is delayed by unforeseeable causes beyond the Contractor's control then the Contract shall be entitled to payment for the cost of that delay.
A5	The Form of Agreement is based on the City's standard template for this type of work.
Q6	Form of Agreement page AGT 18, GC. 10 Delays in the Progress of the Work, Item i states "Despite any other term of this Contract, in no event will the Owner's liability for any delay claim (whether under this GC. 10 or otherwise, at law or in equity, in contract or in tort) exceed the lesser of \$500 for each Working Day of delay of two percent of the Contract Price". This amount seems unreasonable as the GC & sub-contractors daily site costs can be well over \$500 per day. Also if the

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	project's value is roughly \$7,500,000 than two percent of this is \$150,000, in the event the project is delayed for significant time this value can easily be exceeded. Is the Owner willing to remove this clause or increase the value of it.
<b>A6</b>	<b>The Form of Agreement is based on the City's standard template for this type of work.</b>
<b>Q7</b>	Form of Agreement page AGT 19, GC. 11 Specifications & Drawings, states "Anything whatever which may be imperfectly specified or imperfectly shown on the Drawings, must be taken, considered and done as if it were perfectly shown and perfectly specified". Please can the intent of this clause be clarified, the statement is too broad, if an item is not specified to a detail that the bidders can understand we feel that item should be compensated for as an extra to the contract price.
<b>A7</b>	<b>The Form of Agreement is based on the City's standard template for this type of work.</b>
<b>Q8</b>	Form of Agreement page AGT 20, GC. 14 Engineer Sole Judge states "Should any discrepancies appear in, or any difference of opinion or misunderstanding arise as to the meaning of, the Contract Documents... it shall be determined by the Engineer and the Engineer's decision shall be final & binding upon all parties concerned, and from such decisions there shall be no appeal". Please can the intent of this clause be clarified, the statement seems unreasonable, what will occur if the Contractor & Engineer disagree on an item, it appears that the Engineer's opinion shall overrule the Contractor's opinion & that the Engineer's opinion shall be final and not open to appeal.
<b>A8</b>	<b>The Form of Agreement is based on the City's standard template for this type of work.</b>
<b>Q9</b>	Form of Agreement page AGT 23, GC. 23 Maintenance of Schedule item 3 Work Out-of-Sequence states "The Contractor shall at no additional cost perform its Work as to operation of location out-of-sequence as and when directed by the Engineer". Please can the intent of this clause be clarified, the statement is too broad & impossible to quantify. What are the specific building elements that the Contractor must perform out of the standard sequencing? Please advise so all bidders can carry the same costs for this item.
<b>A9</b>	<b>The Form of Agreement is based on the City's standard template for this type of work.</b>
<b>Q10</b>	Form of Agreement page AGT 33, GC. 51 Warranty states "The decision of the Owner shall be final as to the necessity of repairs or of any work done or required to be done under the provisions of the Contract and for the amounts expended thereunder". Please can this clause be clarified as to what the intent is. What happens if the Contractor & Owner disagree on necessity of repairs for work. Will

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	the Owner's opinion overrule the opinion of the Contractor & require the Contractor to execute the work at no additional cost?
<b>A10</b>	<b>The Form of Agreement is based on the City's standard template for this type of work.</b>
<b>Q11</b>	Form of Agreement page AGT 38, GC. Certificates & Payments, item 6 Books Open for Inspection states "The Contractor's payrolls, time-books, books of account, invoices, receipt & statements relating to its Work under the Contract shall be at all times open for inspection and extract by the Engineer and the Owner and any authorized representative of them". This project is a lump-sum bid, generally this information would not be open for inspection, would the Owner consider removing this clause?
<b>A11</b>	<b>The Form of Agreement is based on the City's standard template for this type of work.</b>
<b>Q12</b>	Form of Agreement page AGT 42, GC 67 Delays, Item a, i states "If the Contractor fails to complete the Work by the Substantial Performance date as set out in Article 4, then the Owner may deduct from any monies owner to the Contractor for the Work: all direct out-of-pocket costs such as costs for safety, security, consulting fees for the Engineer, or equipment rental, reasonably incurred by the Owner as a direct result of such delay". May the Owner advise the bidders of their total out-of-pocket daily costs per day? Also is there a maximum or cap to the Owner's liquidated damages?
<b>A12</b>	<b>The Form of Agreement is based on the City's standard template for this type of work.</b>
<b>Q13</b>	Please advise if stainless steel 316L pipe can be used as an acceptable alternate to the carbon steel pipes on process piping?
<b>A13</b>	<b>Stainless Steel 316L pipe is an acceptable alternate but must be sched 40.</b>
<b>Q14</b>	Is piping insulation required for building service piping? If yes please provide the insulation specification.
<b>A14</b>	<b>Piping insulation is required for the cold water building service piping. Provide pre-formed rigid mineral fibre pipe insulation sized to accommodate pipe. Insulation to come complete with external jacket for protection. Minimum insulation thickness of 12.7 mm (1/2").</b>
<b>Q15</b>	Drawings M-502 noted that all piping to be type 'K' soft copper. Can bidders use type 'K' or 'L' hard copper for the piping inside building above ground and PED pipe for underground?

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<b>A15</b>	<b>All copper shall be Type K. Rigid Type K copper pipe is acceptable within the building. (applies to Q20 as well)</b>
<b>Q16</b>	<b>Please advise if a division 10 specification section can be provided for miscellaneous specialties such as the coat hooks, grab bars, baby change table etc. or will the bidders need to rely on the notes on the interior elevation?</b>
<b>A16</b>	<b>Bidders are to rely on the note in the architectural drawings.</b>
<b>Q17</b>	<b>Please provide drawings for deconstruction and disposal of the existing pump station including locations for cap-off of the existing services.</b>
<b>A17</b>	<b>Please see the marked up drawing C101 which has been added to the FTP for Tenderers.</b>
<b>Q18</b>	<b>Is there any external (field run) fuel oil piping and generator exhaust piping required for the exterior stand-by generator?</b>
<b>A18</b>	<b>No.</b>
<b>Q19</b>	<b>Please provide specification(s) for insulation of plumbing piping and equipment inside the pump station.</b>
<b>A19</b>	<b>See A14 in this QA document.</b>
<b>Q20</b>	<b>Please provide specification(s) for plumbing piping and valves inside the pump station. Plumbing drawing (Drawing M-105) stated all domestic water piping to be type "K" soft copper.</b>
<b>A20</b>	<b>See attached Drawing M-105 Markup which has been added to the FTP for Tenderers.</b>
<b>Q21</b>	<b>Please confirm that PVC DWV pipe and fittings can be used for the building drainage system inside the pump station as stated on the plumbing drawings.</b>
<b>A21</b>	<b>PVC DWV pipe and fittings can be used for the building drainage system as stated on the plumbing drawings.</b>
<b>Q22</b>	<b>Please provide specification for the janitor sink shown on Drawing M-104.</b>
<b>A22</b>	<b>This proposed sink is acceptable: 600 mm x 600 mm x 75 liter free standing heavy duty polypropylene laundry tub with pull out faucet. Glacier Bay all-in-one or equal.</b>
<b>Q23</b>	<b>Please provide detail for the 300mm Ø odour control unit duct vent through the building roof.</b>

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<b>A23</b>	Please see detail 4 on Drawing A4.3 for roof penetration and detail F on Drawing M505 for ceiling penetration.
<b>Q24</b>	Refer to specification Section 15720 Item 1.3: Please confirm that only air handling unit supplied by Trane Canada allowed in the Base Bid Price. All other listed approved equals (McQuay, Haakon and Scott Springfield) are to be considered as Alternate Price?
<b>A24</b>	<b>Bid as if supplying the specified unit.</b>
<b>Q25</b>	What are the respective borehole sizes for the micropiles, #8 DCP Anchors and R51N Hollow Bar Anchors?
<b>A25</b>	Min. 4" bit for #8 Min. 5 ¼" bit for R51N
<b>Q26</b>	Are the anchor hardware for the #8 DCP Anchors and R51N Hollow Bar galvanized or bare?
<b>A26</b>	<b>All soil anchor hardware to be galvanized.</b>
<b>Q27</b>	The following items not included in the itemized list, and some items not included in the technical specifications: <ul style="list-style-type: none"> <li>• Prefinished Louvres</li> <li>• Signage Interior&amp; Exterior</li> <li>• Painting &amp; Touch-up Painting</li> </ul>
<b>A27</b>	Prefinished louvres to be included under item 15.2. Signage Interior and Exterior to be provided under item 10.2 Painting and Touch-up painting of walls and ceiling to be provided under item 9.1 (Station walls and ceiling), 5.1 (painting of metalwork) or 15.1 (painting of pipes as applicable
<b>Q28</b>	Item 2.5 including Fountain supply and install. Suppliers require what type, specifications, and warranty
<b>A28</b>	<b>Please see water fountain callout on drawing C-101</b>
<b>Q29</b>	We would like to request a two week extension to the closing date.
<b>A29</b>	<b>Extension granted. Please see Amendment # 3.</b>
<b>Q30</b>	We request a one week extension to the closing date as the subtrades are very

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	busy.
A30	See answer to question 29
Q31	<p>I am currently working on the City of Vancouver - Pump Station Replacement and Washroom Addition Tender. We are hoping to bid on all the Pumps in the Tender.</p> <p>I see that the dry pit Sewage pumps are listed as Xylem. We are proposing Sulzer/ABS Sewage Pumps as an approved equal. Can you please review the attached submission.</p>
A31	<p>Sulzer/ABS is an approved alternate pump supplier. The Contractor is responsible for ensuring that the proposed pumps meet the Contract specifications and conform to the dimensions required by the Contract drawings. Any piping or structure modifications required by the alternate pumps is at the Contractor's expense, including preparation of engineering design drawings and record drawings.</p>