

**INVITATION TO TENDER "ITT" NO. PS20190021
CONSTRUCTION SERVICES FOR THE GRANVILLE BRIDGE REHABILITATION**

QUESTIONS AND ANSWERS NO. 3

ISSUED ON APRIL 15, 2019

Q1	Can we get a 2 weeks extension on the closing date?
A1	Please see Addendum 1.
Q2	Can the presentation information or minute meeting from Tuesday's meeting be shared? I.e. Presentation slides and attendance sheet.
A2	The attendance list was posted in QA2. The presentation slides have been added to the FTP for Tenders as information only and are not part of the Contract Documents.
Q3	With regards to the netting and it's construction limitations & restrictions, this would mean that the contractor cannot implement their TMP until after the netting is put in place or they must do so between December 1st to February 28th correct?
A3	Specification 01 57 01 stands; however, implementation of a TMP on top of the bridge is not strictly prohibited if sensitivity is applied with regards to the methodology of installing this TMP. The construction techniques of applying the TMP should be sensitive to the acoustic impacts to the wildlife.
Q4	Upon receiving the information that the building contractor who's constructing the Vancouver House has a lane closure from 930am - 2pm on the West Lane on Howe Street. a. Can the City provide a contact for the building contractor or provide the Traffic Management Plan which the building contractor presented to the City for Approval of their road closure? b. Are the hours from Monday to Friday and weekends too?
A4	The contact for the development is David Kunic, ONNI GROUP, 604-218-1720. Copies of their accepted traffic management plans have been added to the FTP for Tenderers as information only and do not form part of the contract documents: <ul style="list-style-type: none">Accepted TMP - Development - 1335 Howe St - Howe Onramp Lane - QA3Accepted TMP - Development - 1335 Howe St - Howe Slip Lane - QA 3

**INVITATION TO TENDER "ITT" NO. PS20190021
CONSTRUCTION SERVICES FOR THE GRANVILLE BRIDGE REHABILITATION**

QUESTIONS AND ANSWERS NO. 3

	<ul style="list-style-type: none"> Development - 1335 Howe St - Howe Slip Lane C - QA 3 <p>Note that it is not Vancouver House, but a separate development with a longer time-line.</p> <p>Hours are 9:30am to 2pm, Monday to Friday, with additional hours available on weekends by request only, and must be coordinated with adjacent scheduled weekend impacts.</p>
Q5	With regards to the CMBC's 3-High Voltage Wire and working within 1m requires a safety watcher and shielding protection, can the City provide a contact either from Translink or the City as to who the contractor must coordinate to provide a safety watcher; someone from Translink, BC Hydro, or the City?
A5	As per Addendum 2, working within 3 m of the CMBC cables requires shielding and qualified independent safety watch. Once shielding is installed, the Proponent may work within 0.3 m of the energized asset, but safety watch is still required within the 3 m buffer. CMBC contact is the Overhead Power System Network Manager at 778-378-6582 or TOHreview@TransLink.ca
Q6	Western Shrink Wrap would like to enquire if this project may include scaffold and hoarding requirements as part of the upgrades. We and our partner scaffold firms would be interested in providing pricing to the proponents.
A6	It is up to the Tenderers to decide on the methodology of how to complete the upgrades.
Q7	Ref Dwg 2125-353 Drawing shows PL 9.5x76 existing bar to be cut at extent of demolition. Can you provide the spacing for the PL 9.5x76 existing bar? Can you direct us which record drawings we can locate these PL 9.5x76 existing bars?
A7	Drawing 1-236 and 1-237 from the 1950 Record Drawings provide details on the main span joints. Details/measurements taken from these drawings shall be field confirmed by the Contractor.
Q8	Ref Dwg 2125-353 Drawing shows clean top of existing beam and then weld nelson studs on existing beam. Can you provide us the dimension of existing beam?
A8	Drawing 1-236 and 1-237 from the 1950 Record Drawings provide details on the main span joints. Details/measurements taken from these drawings shall be field confirmed by the Contractor.
Q9	Can you please provide more information regarding the work being completed by another contractor on the Howe Street ramp (i.e. scope, schedule and extent of work area)?
A9	<p>Construction of the development is happening from the Howe St slip lane and the rear lane. Current schedule is as follows:</p> <p>August 2019 - Structure up to grade</p>

**INVITATION TO TENDER "ITT" NO. PS20190021
CONSTRUCTION SERVICES FOR THE GRANVILLE BRIDGE REHABILITATION**

QUESTIONS AND ANSWERS NO. 3

	<p>January 2020 - Structure to L8 (podium)</p> <p>October 2020 - Structure complete to level 40</p> <p>April 2021 - First phase of occupancy</p> <p>For more information, please contact David Kunic, ONNI GROUP, 604-218-1720.</p>
Q10	Regarding the existing catch basins along the limit of pavement removal for the expansion joint replacements, are the existing catch basins to be retained for re-use or are new catch basins required to installed?
A10	The existing catch basins are to be retained for re-use.
Q11	Regarding Dwg 2125-202 Sequence of construction Note #4. This note indicates that the "contractor must complete bearing replacement and allow for all geometric changes prior to setting deck joints". Please specify if this applies only to expansion joints on the Main Span (M1, M4, M5, M6S, M7N, M8)? Or does it apply to the expansion joints on the north and south approaches as well?
A11	This only applies to joints on the main span. North and south approach joints can be replaced prior to M6 and M7 bearing replacement.
Q12	Can any work (Ex. Post tensioned bar install, lifting blocks, bearing change out, etc) on Pier 6 or 7 begin prior to the avian exclusion netting/outside nesting season(Dec 1 - Feb 28)?
A12	The activities described in this question all create noise and disturbance; please refer to back to specifications regarding restrictions surrounding cormorants.
Q13	<p>Per 2.8 of Part B - Terms and Conditions of ITT Process. "A tenderer that has already submitted a tender may amend its tender prior to the closing time...").</p> <p>Please confirm that a fax revision is permitted in this tender prior to the closing time.</p>
A13	Please see PART B- TERMS AND CONDITIONS OF ITT PROCESS - 2.0 SUBMISSION INSTRUCTIONS - 2.3. No faxed or emailed Tenders or amendments will be accepted.
Q14	Please confirm what height the City requires fencing to be; 6ft or 8ft?
A14	The City does not have a standard for minimum fence height. It is to the discretion of the Contractor to use appropriate fencing for the hazard type/purpose that it is intended.
Q15	Are there any specifications or drawing details which the City / Engineering Consultant can provide on how the netting is to be installed?...or is that up to the contractor to provide?

**INVITATION TO TENDER "ITT" NO. PS20190021
CONSTRUCTION SERVICES FOR THE GRANVILLE BRIDGE REHABILITATION**

QUESTIONS AND ANSWERS NO. 3

A15	01 54 01S details Main Span Truss Bird Netting requirements. No drawing details are available.
Q16	In Drawing 2125-318, it states contractor to prepare for the tab repair on the Granville Street Bridge. Actual locations shall be confirmed on site with the Contract Administer through detail inspection. Please advise if the owner will be responsible for preparing the detail inspection report. Will the contractor be responsible for the inspection report?
A16	No detailed inspection report is required. The Contractor is meant to provide access for detailed inspection and repair of the tabs. The Contract Administrator, under the presence of the Contractor, will confirm which locations require repair.
Q17	Ref Schedule A - Schedule of Quantities and Prices Pay Item 4.9 The quantity of Tab Repair is 20. Can you provide the location of the tab repair?
A17	The location of the tab repairs will be determined after detailed inspection. See answer to Q16 for further information.
Q18	Ref Schedule A - Schedule of Quantities and Prices Pay Item 7.4 The quantity of additional access for concrete sounding is 16 hours. It will include access to the elevated areas outside of the provided locations of required concrete repairs. Can you specify the exact location required additional access so the contractor can price this portion of work accordingly?
A18	The exact locations for additional access are not known.
Q19	Ref Dwg 2125-355 Section A does not show any new reinforcing steel detail for Deck Joint at Pier M5. Can you please provide a rebar detail?
A19	Existing Reinforcement to be cleaned and remain, no new reinforcement is required unless existing reinforcement is damaged during demolition and/or differ significantly from record drawings.
Q20	Drawing 2125-314 shows the new bearings plates required to weld to existing bearing plates. How does the new bearings connect to the new bearing plates?
A20	The connection of the seismic isolation bearings to the new bearing plates will be the responsibility of the bearing manufacturer, and will be manufactured to satisfy the design requirements and the 2014 AASHTO Guide Specification for Seismic Isolation Design.
Q21	Drawing 2125-315 Stage 5 states weld new bearing plates to existing bearing plates

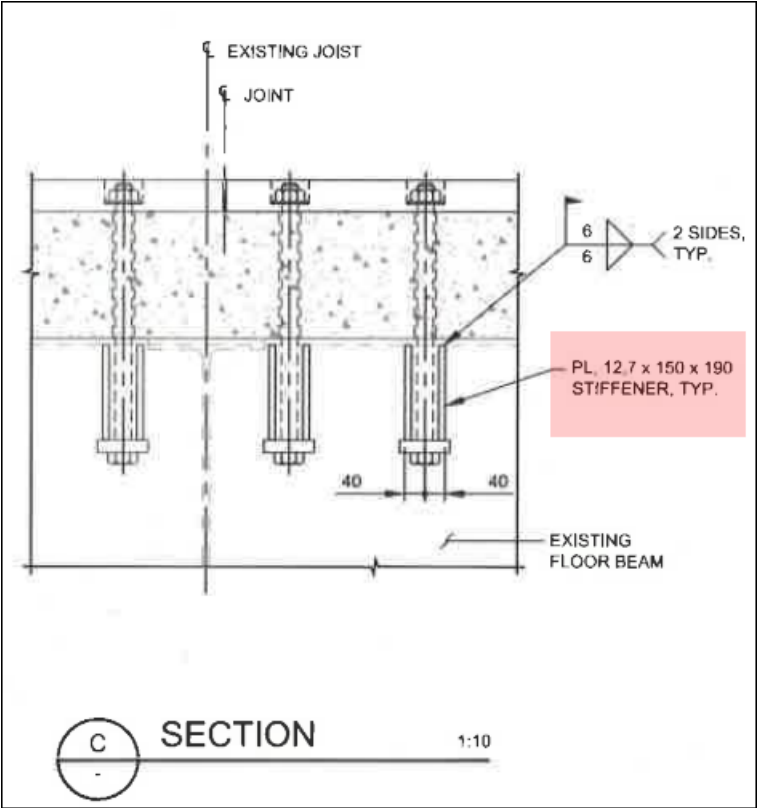
**INVITATION TO TENDER "ITT" NO. PS20190021
CONSTRUCTION SERVICES FOR THE GRANVILLE BRIDGE REHABILITATION**

QUESTIONS AND ANSWERS NO. 3

	as shown protect bearing rubber during welding with fiberglass insulation. Our bearing supplier was concerned about the flatness and warping of 25mm thick plate after welding. Please advise.
A21	Proceed as per the Contract Drawings.
Q22	Both Polychloroprene and natural rubber is mentioned on the finger joint trough material, please specify which material shall be used.
A22	Polychloroprene.
Q23	Dwg No. 2125-201. Design Code 2. Notes "Bearings shall conform to CHBDC". Dwg No. 2125-316. Note 3. Notes "Isolation bearings shall be designed to meet the requirements shown in Table 131 and the 2014 AASHTO Guide Specifications for seismic Isolation Design". Please confirm which design requirements shall be used.
A23	The 2014 AASHTO Guide Specifications for Seismic Isolation Design shall govern the design of the isolation bearings.
Q24	The isolation bearings specification calls for prime + finish coat. Please specify what is the final coat of exposed steel on the isolation bearings.
A24	Coating shall be performed as per the project Specifications. Reference Supplemental Specification 09 91 99S.
Q25	On Page 361, the Expansion Finger Joint Pier M5 denotes a 190 x 190 x 12.7 stiffener plate. However, section C denotes a 150 x 190 x 12.7 stiffener plate. Please confirm which dimension of plate shall be used.

INVITATION TO TENDER "ITT" NO. PS20190021
CONSTRUCTION SERVICES FOR THE GRANVILLE BRIDGE REHABILITATION

QUESTIONS AND ANSWERS NO. 3

	
A25	190 x 190 x 12.7 stiffener plate shall be used.
Q26	What environmental permits are currently in place for the Project? Can you please provide a copy of all environmental permits in place for the Works?
A26	There are currently no environmental permits in place for the Project and no provisions have been made for any in-water work. The Contractor shall follow DFO guidelines such as "measures to avoid harm" http://www.dfo-mpo.gc.ca/pnw-ppe/index-eng.html and http://www.dfo-mpo.gc.ca/pnw-ppe/pathways-sequences/bridges-ponts-eng.html for example and any other guidelines deemed applicable. See Part B - Terms and Conditions of the ITT Process - Taxes and Fees.
Q27	What environmental conditions are to be in place for existing permits to be valid (e.g. timing of works, etc.)?
A27	This is dependent on the Contractor's work plan and may need to be reviewed once bids are accepted. 01 57 01 specifies anticipated environmental conditions that must be met. Also see See Part B - Terms and Conditions of the ITT Process - Taxes and Fees.

**INVITATION TO TENDER "ITT" NO. PS20190021
CONSTRUCTION SERVICES FOR THE GRANVILLE BRIDGE REHABILITATION**

QUESTIONS AND ANSWERS NO. 3

Q28	Will the Contractor be required to obtain any additional environmental permits?
A28	The City's understanding is that all work will proceed under DFO guidelines, and review of necessary environmental requirements may be needed depending on Contractor's work plan. See Part B - Terms and Conditions of the ITT Process - Taxes and Fees.
Q29	Have construction activities impacts (such as acoustic impacts) to the aquatic environment (particularly to fish and marine mammals) been considered?
A29	Construction activities should follow DFO guidelines.
Q30	Will the Owner allow for all lanes of traffic to be switched to the northbound lanes (2 lanes in each direction of traffic) between approximately S9 and M8 expansion joints while the Works are being performed on the southbound lanes, and then switch all traffic lanes to the southbound lanes while the Works are being completed on the northbound lanes (2 lanes in each direction)?
A30	Addendum 1 clarifies that only 2 adjacent lanes of traffic may be closed at any one time. The City cannot support a switchover due to the impact to trolley operations and traffic operations at the south end of the bridge, resulting in less than 2 lanes retained, significant detours, and traffic volumes directed onto signals that cannot process the necessary volumes.
Q31	Strip seal joints are shown as D.S. Brown L2-0 or L2-400. Please confirm equivalent approved product from different supplier is acceptable.
A31	No other strip seal joints shall be used.
Q32	Due to the extent of the scope of works, we respectfully request the closing date of the ITT to be extended by 2 weeks.
A32	Please see Addendum 1.
Q33	<p>In regards to the above tender I am wondering if you can clarify the contractor qualifications?</p> <p>In section 09 91 99S, Painting Exterior Metal Surfaces it states that the following qualifications are required:</p> <p>.5 The Contractor or primary Subcontractor carrying out the coating work shall hold valid SSPC-QP1 or SSPC-QP2 certification.</p>

INVITATION TO TENDER "ITT" NO. PS20190021
CONSTRUCTION SERVICES FOR THE GRANVILLE BRIDGE REHABILITATION

QUESTIONS AND ANSWERS NO. 3

	<p>Park Derochie has these certifications but then in Schedule 2 we see the following:</p> <p>.7 The Contractor must use one of the Owner's pre-qualified hazardous materials abatement contractors for any abatement work not performed by the Contractor. If the Owner's Hazardous Materials Team determines consulting services are required to oversee the project, the Owner will retain a pre-qualified hazardous materials consultant.</p> <p>Park Derochie is not currently a pre-qualified abatement contractor for the City of Vancouver but over the last year have been trying to determine the requirements for this. We are told that the City will be re-evaluating this list in August, please see the attached dating back to August of last year.</p> <p>As Park Derochie currently holds SSPC QP2 certification with a proven track record (see attached certs) are we able to perform the abatement work or are we prohibited to pursue the abatement/painting work from a subcontractor perspective?</p> <p>Here is a link with some additional information for SSPC QP2 - http://www.sspc.org/qp-qp2</p>
A33	<p>The specifications still stand and Tenderers must propose the use of one of the City's pre-qualified abatement contractors listed in Schedule "C" (Part C - Form of Tender) - 2.0 HAZARDOUS MATERIALS ABATEMENT CONTRACTOR.</p>