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**Monday, February 18, 2019**

**ADDENDUM NO. 4**

Subject: **ITT Invitation to Tender No. F5211-180783**  
Title: **Harbour Revitalization in Malbay St George, Quebec**  
Location: **Malbay St George, Quebec**  
Closing Date: **Wednesday, February 20, 2019 @ 2:00 pm (EST)**

Dear Sir/Madam:

Further to the above-mentioned Invitation to Tender, this **Addendum #4** is to advise potential bidders of the following changes to this tender call and/or answers to Bidders questions received to date:

**Question #1 :**

The quantity of concrete of 26 m<sup>3</sup> in tender form does not correspond to the area we calculate on the drawing, where we calculate a theoretical volume of ± 12 m<sup>3</sup>. Would it be possible to have an explanation on this important difference and to confirm the quantity?

**Answer # 1:**

When preparing tender documents, the Departmental Representative identified a scour zone to be repaired of approximately 2-3m x 75m. With a slab thickness of 150mm, the volume will reach close to 26 m<sup>3</sup>.

**Question #2 :**

The existing stone in the breakwater and in reserve near the breakwater, are these quantities included in the quantity of the items in tender form or if the handling of this stone shall be distributed in the corresponding items of the tender form ?

**Answer # 2:**

The use of the existing stone and the one in reserve is included in the Lump Sum Item Demolition-Stone Protection



**Question #3 :**

Is it possible to have a sketch showing the approximate location of the on site stone available for the Contractor?

**Answer # 3:**



**Question #4 :**

400 m.t. of 6 to 10 m.t. available stone, is this type of stone accepted to replace the 5 to 8 mt stone or if it shall be sorted? Same for the 500kg @ 1500kg stone, is it accepted in replacement of the 750kg @ 1500kg in tender form or if it shall be sorted?

**Answer # 4:**

Stone in stock is accepted in the category without sorting.

**Question #5 :**

Shall we weigh available stone or their weight is already inscribed on each stone? Is a loader scale acceptable?

**Answer # 5:**

The use of this stone is paid as a Lump Sum Price in the Item Demolition- Stone Protection

**Question #6 :**

Do we have to analysis available stone before using it? Or do you already have the certificates?

**Answer # 6:**

No, stone is ready to use.



**Question #7 :**

Section 01 51 00 refers to temporary lighting. However, according to the demolition drawings, the demolition work does not seem to require to cut off power supply. Is temporary lighting actually required? Can you confirm that the demolition work does not involve electrical demolition?

**Answer # 7:**

No electrical work. The lighting system is for the use of the harbor, it is possible that the area of rock protection is not enough light.

**Question #8 :**

Do the steel plates provided by DFO already have holes for handling? If not, are we allowed to drill the plates to facilitate placement?

**Answer # 8:**

Yes you can drill holes for manipulation

**Question #9 :**

Section 05 50 00 talks about welding. Should all plates be welded in addition of being attached to existing concrete?

**Answer # 9:**

No welding or fixing to concrete, the plates shall only be supported.

**Question #10 :**

Can you confirm that there is no lean concrete work as indicated on sheet 4/6 to be done?

**Answer # 10:**

Confirmed- This is a section of existing.

**Question #11 :**

On Sheet 1 of 6, it is indicated reconsolidated and paved zone, can you confirm that there is no paving for this project?

**Answer # 11:**

Confirmed no paving.

**Question #12 :**

On Sheet 4 of 6, at the Section # 4, we see that there seems to be a section of slab to repair also at this section of the wharf, the note in the cloud seems to confirm this information. However, looking at Sheet 2 of 6, there is no work to be done there. Can you confirm that this Section is for information only?

**Answer # 12:**

Confirmed - for information only.



**Question #13 :**

In section # 1 of sheet 3/6 , we notice that the concrete block on which the plate shall rest is not vertical, there is a certain "break" effect in the concrete, do we shall plans a partial demolition so that the plate is fully supported?

**Answer # 13:**

No, if the situation arises, plates installation will be adjusted with Departmental Representative

**Question #14 :**

In Section # 2 of sheet 3/6, the steel plate will be fixed on a wooden wall. The wall does not seem to be open face, so it may be impossible to access the other side of the wall to secure the anchors. Do you have a specific method in place?

**Answer # 14:**

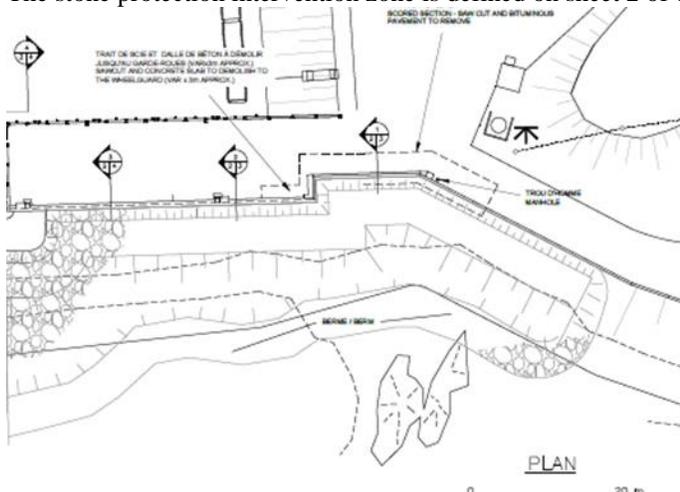
The plates shall only be supported and the different layers of stone will retain them

**Question #15 :**

In order to properly evaluate the volume of 4 – 12 mt stone to move and put back in place, is it possible to identify the area of intervention on drawing? Do you have any idea of the 4-12tm stone thickness?

**Answer # 15:**

The stone protection intervention zone is defined on sheet 2 of 6



About the thickness of the existing armor stone, the scour under the slab and paving, as well as the run-up observed suggests that the stone protection only consist of armor stone, hence multilayer.

**Question #16 :**

It is indicated for the area "to repair and pave"  
But in the Specifications we do not find any details for paving. Please confirm and specify.

**Answer # 16:**

Do not consider paving work only rebuild with precast concrete slabs

**Question #17 :**

If paving is required for this project, it is likely that asphalt plant do not start operations until May.  
What is the guideline to follow if so?



**Answer # 17:**

Do not consider paving work only reconstruction with precast concrete slabs

**Question #18 :**

For the sector identify as scoured.

What are the respective areas of concrete and existing asphalt (see detail 1)?

**Answer # 18:**

There is approximately 60 m<sup>2</sup> of paving to be removed. The size of the scoured area to be repaired will be confirmed with the Departmental Representative following the demolition work. It could represent an area of 75 m<sup>2</sup> to 150 m<sup>2</sup>.

**Question #19:**

Has the entire area where scour (including the actual paved area) has to be corrected with concrete?

Please define and specify?

If yes, see detail 1 and standard section. Is the difference in height between the 75mm of pavement and the 150mm of the slab compensated only by the removal of a layer of 75mm of the existing 20-0mm?

**Answer # 19:**

Yes the pavement will be repaired with precast slabs by removing the existing granular base to harmonize the final elevation with the existing.

**Question #20:**

For the remaining space between concrete (slab or form) and pavement, should it be paved? (if yes, see question no.2) or simply filled with 20-0 mm?

Please specify.

Drawing sheets 3 and 4:

**Answer # 20:**

The remaining space will consist of a 20-0mm surface

**Question #21:**

Details No.2; 3 and 4 on drawings are outside the area of work related to scouring of the slab (see p2). However, these details specify areas of scouring and saw cut, including the wheel-guard of the slab (detail 3).

Please validate everything and specify the work please.

**Answer # 21:**

The Departmental Representative identified on drawings the visible scour zone. Visual observations through cracks show that the area is more extensive.

Concrete wheel-guard is to demolish but concrete wall is to preserve.

**Question #22:**



For details No.1; 2 and 3 on drawings, it is indicated for the steel plate "to install and field fit"

-Specify the required work, mainly "to field fit"

-Are the steel plates only placed on the ground and supported along the wall, so that the height is not higher than the wall?

-Is the different steel plates to be welded end to end?

Drawings sheet 5:

**Answer # 22:**

The work only consists to support plates on the vertical face of the wharf to block holes in the structure.

As illustrated, the plates shall not exceed the elevation of the wall.

The work aims to prevent the waves from washing the granular base.

**Question #23:**

At typical section, it is indicated to move the 8 to 12 mt stone to place the new 5 to 8 mt stone underneath. The indicated heights are 0.75m maximum? Please define and specify.

-Indicate the estimated volume of 8 to 12 mt stone to excavate and put back in place

-Is the 8 to 12 mt only located outside the area identified as "stones to be preserved" or if part of it can be found within this zone and thus require additional excavation and backfill in relation to the typical section?

**Answer # 23:**

The Departmental Representative requests that the 8 to 12 tm only on the crest of the stone protection be removed to install the new 5 to 8 tm underneath to have the largest stone on the top layer of the armour stone.

The geometry of the demolition limit is for information only and depends on the Contractor's work method. The volume of existing armour stone to remove is therefore a function of the Contractor's work method

**Question #24:**

Section of the cave sector, the indicated depth of stone fill is 6.3m.

For the 750 to 1500 kg stone to be placed here, it is placed under the existing ground level, as far as possible, until the opening in front of the cave be filled (remains a possible void under the surface of the ground)?

Please specify.

**Answer # 24:**

The goal of the intervention is to fill the cave as much as possible and subsequently protect the area with armour stone. The goal is to prevent the progression of degradation and thus avoid the collapse of the access road.

**Question #25:**

On Sections, we see that there is a 56-0mm material to place under the 20-0mm, however no quantity of 56-0mm is indicated in tender form, is this normal?

**Answer # 25:**

This is the existing

All other terms and conditions remain unchanged.



Yours truly,

**Ginette Aliaga**

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