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V6Z 0B9  
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## SOLICITATION AMENDMENT MODIFICATION DE L'INVITATION

The referenced document is hereby revised; unless otherwise  
indicated, all other terms and conditions of the Solicitation  
remain the same.

Ce document est par la présente révisé; sauf indication contraire,  
les modalités de l'invitation demeurent les mêmes.

### Comments - Commentaires

Vendor/Firm Name and Address  
Raison sociale et adresse du  
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Issuing Office - Bureau de distribution  
Public Works and Government Services Canada - Pacific  
Region  
800 Burrard Street, Room 219  
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Vancouver  
British C  
V6Z 0B9

<b>Title - Sujet</b> Seal Cove MSPV Float Replacement	
<b>Solicitation No. - N° de l'invitation</b> F1700-204300/A	<b>Amendment No. - N° modif.</b> 002
<b>Client Reference No. - N° de référence du client</b>	<b>Date</b> 2020-07-17
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$PWY-041-8782	
<b>File No. - N° de dossier</b> PWY-0-43004 (041)	<b>CCC No./N° CCC - FMS No./N° VME</b>
<b>Solicitation Closes - L'invitation prend fin</b> <b>at - à 02:00 PM</b> <b>on - le 2020-07-31</b>	<b>Time Zone</b> <b>Fuseau horaire</b> Pacific Daylight Saving Time PDT
<b>F.O.B. - F.A.B.</b> <b>Plant-Usine:</b> <input type="checkbox"/> <b>Destination:</b> <input checked="" type="checkbox"/> <b>Other-Autre:</b> <input type="checkbox"/>	
<b>Address Enquiries to: - Adresser toutes questions à:</b> Sezginalp (PWY), Kipp	<b>Buyer Id - Id de l'acheteur</b> pwy041
<b>Telephone No. - N° de téléphone</b> (604) 367-5341 ( )	<b>FAX No. - N° de FAX</b> (604) 775-6633
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b> DFO - Seal Cove Coast Guard Base - Prince Rupert, BC	

Instructions: See Herein

Instructions: Voir aux présentes

<b>Delivery Required - Livraison exigée</b>	<b>Delivery Offered - Livraison proposée</b>
<b>Vendor/Firm Name and Address</b> <b>Raison sociale et adresse du fournisseur/de l'entrepreneur</b>	
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<b>Name and title of person authorized to sign on behalf of Vendor/Firm</b> <b>(type or print)</b> <b>Nom et titre de la personne autorisée à signer au nom du fournisseur/</b> <b>de l'entrepreneur (taper ou écrire en caractères d'imprimerie)</b>	
<b>Signature</b>	<b>Date</b>

Solicitation No. - N° de l'invitation

Amd. No. - N° de la modif.

Buyer ID - Id de l'acheteur

F1700-204300

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pw041

Client Ref. No. - N° de réf. du client

File No. - N° du dossier

CCC No./N° CCC - FMS No./N° VM

This Solicitation Amendment 002 is raised to incorporate Addendum No.1, extend the solicitation closing date, replace drawings, add new drawings, revise the unit price table, and answer bidders' questions.

The solicitation closing date will be extend from July 24, 2020 14:00 Pacific Daylight Time (PDT) to July 31, 2020 14:00 Pacific Daylight Time (PDT).

This APPENDIX 1 – UNIT PRICE TABLE (REVISED) supersedes any previous versions.

Failure to complete and submit this APPENDIX 1 – COMBINED PRICE FORM (REVISED) at bid closing will rendered the bid submission NON-COMPLIANT and will be given NO FURTHER CONSIDERATION. Please find herein.

The Revised Drawings are available for viewing and download in the following buyandsell.gc.ca link, under "Attachments", File <f1700\_-\_204300\_-\_revised\_drawings>

Note: <f1700\_-\_204300\_-\_revised\_drawings> supersedes <f1700\_-\_204300\_-\_drawings>

The Revised Reference Drawings are available for viewing and download in the following buyandsell.gc.ca link, under "Attachments", File <f1700\_-\_204300\_-\_revised\_reference\_drawings>

Note: <f1700\_-\_204300\_-\_revised\_reference\_drawings> supersedes <f1700\_-\_204300\_-\_reference\_drawings>

Section 02 48 00 has been added to the Specifications. Please find herein.

**All other terms and conditions remain unchanged.**

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## **APPENDIX 1 – UNIT PRICE TABLE (REVISED)**

- 1) The prices per unit will govern in establishing the Total Extended Amount. Any arithmetical errors in this Appendix will be corrected by Canada.
- 2) Canada may reject the bid if any of the prices submitted do not reasonably reflect the cost of performing the part of the work to which that price applies.

### **UNIT PRICE TABLE**

The Unit Price Table designates Work to which a Unit Price Arrangement applies.

- (a) Work included in each item is as described in the referenced specification section.
- (b) The Price per Unit shall not include any amounts for Work that is not included in that unit price Item.

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#	ITEM	QUANTITY	UNIT PRICE	TOTAL PRICE
<b>1</b>	<b>Mob/demob</b>	<b>LS</b>	<b>--</b>	
	<b>New Timber MSPV Mooring Float (3.66 x 60m)</b>			
2	Supply & assemble heavy timber float sections for main MSPV float (3.66 x 6.71m)	8		
3	Supply & assemble standard end section (3.66 x 1.37m)	1		
4	Supply & assemble custom end section (3.66 x 4.98m)	1		
5	Supply & install cleat reinforcement in float (5 locations)	LS	--	
6	Remove & dispose of old floats (3); install new float alongside dock	LS	--	
7	Temporarily remove electrical and reinstall on new float	LS	--	
8	Supply & install mooring piles OD 457 x <b>16 mm thick</b> , with 2m & 3m rock sockets	6		
9	Install transition plates, anodes, cleats, pile well liners, etc	LS		
	<b>New Concrete Landing Float #2 (4.9 x 12.2 m)</b>			
10	Supply new concrete float to site, c/w tie-up rails, rub rails, pile wells, etc.	LS	--	
11	Remove old float & dispose, temporarily support ramp & utilities, install new float	LS	--	
12	Reinstall electrical, water, communications	LS	--	
13	Supply & Install new mooring piles, OD 457 x <b>16 mm thick</b> , with 2 m rock socket	2		
14	Install transition plate, anodes, etc	LS	--	
	<b>New Timber Mooring Float #10 (3.66 x 12.3 m)</b>			
15	Supply & assemble heavy timber float section (3.66 x 6.71m)	1		
16	Supply & assemble standard end section (3.66 x 1.37m)	1		
17	Supply & assemble custom end section (3.66 x 4.22m+/-)	1		
18	Remove old float & dispose, install new float	LS	--	
<b>19</b>	<b>Reinstall utilities</b>	<b>LS</b>	<b>--</b>	
20	Supply & install pile brackets	LS	--	
21	Pull and re-drive 1 existing steel mooring pile	LS	--	
		<b>TOTAL BID AMOUNT</b>		
		Excluding applicable tax(es)		

## **Addendum No.1**

**Date:** July 16, 2020

**Description:** Seal Cove CCG Base MSPV Float Replacement

### **Unit Price Table:**

Replace existing Unit Price Table with Unit Price Table – Rev 1

### **Specifications**

Add Section 02 48 00 Buoyancy Billets to form part of the specification

### **Drawing:**

Replace E968-01: New Floats – General Arrangement Rev A with E968-01: New Floats – General Arrangement Rev B

Replace E968-02: New Floats – Plans: New vs Existing Rev A with E968-02: New Floats – Plans: New vs Existing Rev B

Replace E968-03: New Float for MSPV – Section A, Notes Rev A with E968-03: New Float for MSPV – Section A, Notes Rev B

Replace E968-05: New Floats – Plan Details Rev A with E968-05: New Floats – Plan Details Rev B

Replace E968-06: New Float for MSPV – Float and Pile Well Details Rev A with E968-06: New Float for MSPV – Float and Pile Well Details Rev B

Replace E968-07: New Float for MSPV – Cleat Reinforcement Details, Sheet 1 Rev A with E968-07: New Float for MSPV – Cleat Reinforcement Details, Sheet 1 Rev B

Replace E968-08: New Float for MSPV – Cleat Reinforcement Details, Sheet 2 Rev A with E968-08: New Float for MSPV – Cleat Reinforcement Details, Sheet 2 Rev B.

Replace E968-09: New Concrete (Float #2) – Plans Rev A with E968-09: New Concrete (Float #2) – Plans Rev B

Add Drawing E968-11: Pile Brackets and Transition Plates

### **Reference Drawings:**

Add new electrical reference drawing titled: “1818E”

Add new sketch titled “Seal Cove elect conduit sizes”

### **General Inquiries/Clarifications:**

**Question No 1:** What are the specifications on the coating required for pilings ?

**Answer:** No specification for pile coating is required. The pile thickness will be increased to 16mm thick (5/8”) instead

**Question No 2:** Please provide contact information to arrange for a site visit

**Answer:** There will be no site visit however pictures of the site are provided in the Appendix for the tender package

**Question No 3:** Tender items 4 and 7 are the same, please clarify ?

**Answer:** See revised Unit Price Table

**Question No 4:** Where do we put our mobilization and demobilization on the tender form ?

**Answer:** See revised Unit Price Table

**Question No 5:** Note (a) above the unit price table on the tender form indicates “work included in each item is as described in the referenced specification section”, where is that section located ?

**Answer:** The sections are located under the appropriate specification section

**Question No 6:** Please provide the paint specification for the piles

**Answer:** Refer to Question #1

**Question No 7:** If we increase the pile thickness to 5/8” wall, can the paint be deleted

**Answer:** See answer to Question #1

**Question No 8:** There are notes on the drawings indicating an option for FRP grating in lieu of the timber decking, where do we put the option price in the tender table ?

**Answer:** The drawings have been revised to show that only FRP grating will be used.

**Question No 9:** There is a note on the drawing that the weight of the gangway will be determined by a test lift. Will this be done and paid for by the owner ?

**Answer:** Contractor will be responsible for conducting the weight test of the gangway. Cost to be included in the mob/demob unit price.

**Question No 10:** The consultant drawings show 38x292 rub boards on the floats but the bill of materials on heavy float detail drawings do not, please clarify the requirements

**Answer:** The 38x292 rub boards are required.

**Question No 11:** Where do we put the option price to re-drive the mooring pile (float #10) on the tender form ?

**Answer:** See revised Unit Price Table.

**Question No 12:** How long can the marine facility be out of service ?

**Answer:** The preferred dates for the work is between mid November 2020 and end of December 2020 as this will result in the least disruption to the vessel moorage. In any event, Contractor must submit a work schedule to be reviewed by and approved by DFO. The float facility can be out of service up to 8 weeks

**Question No 13:** Preliminary calculation by a concrete float supplier using the dead loads provided indicates a freeboard of 380mm, is it up to the concrete float supplier to ensure the required 450mm freeboard is obtained ?

**Answer:** Yes, the Contractor will design the float to provide the required 450mm freeboard.

**Question No 14:** Please provide details for the electrical conduit in the float where it is on top of the exterior wall

**Answer:** See Reference electrical as-built drawing titled "1818E"

**Question No 15:** If this job needs to be brought up to code now that we will be altering the existing cabling, the code requires ground fault breakers for every existing cable going to the dock. Do we require ground fault breakers ?

**Answer:** Yes

**Question No 16:** Because of the new floats is it possible to lay the cables between the deck and floats? As opposed to all surface wiring ?

**Answer:** The electrical lines in the conduits are to be surface mounted above deck and to be relocated on the same location as existing with two hole galvanized steel straps spaced at minimum 2m apart. See attached reference sketch titled "Seal Cove elect conduit sizes". The conduits are to be RGS conduits with the same diameter as shown in the sketch.

**Question No 17:** Many cables are worn so badly that the cable is wrapped with protection. Do we replace these cables or just reinstall ?

**Answer:** Assume the cables are in fair condition and re-install. The condition of the cables will be reviewed during Construction phase and the decision for replacement will be decided at that stage.

**Question No 18:** There is no information regarding pile supply length. Will the owner please provide a quantity or seabed elevations at the piling locations so we can make a guess at

**Answer:** Seabed elevations are shown on Elevation on Dwg E968-01: New Floats – General Arrangements, Rev B (taken from fender pile driving records 1984). See pile table on Dwg E968-03: New Float for MSPV – Section A, Notes, Rev B.

**Question No 19:** DWG FM12-HV-000 Rev g Included in the float supply package shows deck plates at 2440 long but the inside span of the 3.657 m float is 3378mm, what is the intent here ?

**Answer:** Should it not be 3353mm to allow 25mm expansion. Refer to Question 8 which states that the deck will be FRP grating

**Question No 20:** Would you be willing to accept an alternative proposal of all design-built-engineered concrete docks instead of concrete and wooden docks ?

**Answer:** No

**Question No 21:** The piles specified in the tender drawings are 18" this is not a common size. Would alternates be allowed where the pile is either 16" with a thicker wall, or 24"? Additionally would HDPE pile sleeves be acceptable as a substitute for painting the piles?

**Answer:** No alternate pile size will be allowed. However, the pile thickness has been increased so no painting will be required. See Question #1.

**Question No 22:** What is the rated capacity of the concrete approach at Seal Cove ?

**Answer:** The wharf is rated for a single unit vehicle with a maximum GVW of 8,125 kg or a two unit vehicle with a maximum GVW of 12,500 kg. The Maximum Uniform Load is 680 kg/Square meters



**Question No 23:** In the photos the power looks to be on top of the float and run inside a protective pipe. We would like to know how that pipe is to be attached and if a water line is also run on top of the floats ?

**Answer:** Refer to Question #16

**Question No 24:** We find that the splice blocks interfere in couple of areas. Will it be ok to move the cleat and pile locations or will this require modifications to the timber framing?

**Answer:** The piles can be shifted within a couple of meters. The aim is to get them relatively evenly spaced (with closer spacing towards the right side of the plan where the water gets deeper) and fit within the float timber geometry. The cleat locations can be shifted slightly also. The cleat locations need to be kept close to the same arrangement relative to each other, as far as possible, ie possibly shift as a group by +/- 500m.

**Question No 25:** I cannot find a paint spec for the steel piling other than under Steel pipes and structural steel - Execution - Protection from Corrosion (05129 3.3). Is the paint selection up to the contractor?

**Answer:** No pile painting is required. See Question #1

**Question No 26:** There are repeated references to “Cleats” and Transition Plates between floats in both the specifications and drawings but I can find no details. Are the cleats and transitions provided by the owner or will there be additional information provided for sourcing?

**Answer:** The Contractor will remove and re-use the existing cleats on the new float. Refer to Drawing No: E968-11”Pile Brackets and Transitional Plates – Details”.

**Question No 27:** In the bid form where do we include mobilization for the project.

**Answer:** See revised Unit Price Table

**Question No 28:** Is there a drawing showing the custom extensions or is that up to the contractor to design?

**Answer:** No, the Contractor is responsible for designing and custom extension

**Question No 29:** There will be a conflict with splice blocks and the Angle frame for the main float extension, will the owner be providing a solution?

**Answer:** Refer to Question #24

**Question No 30:** The old standard drawings from 30 years ago show creosote treatment for the flanges and stringers. Will ACZA UC5 treatment be acceptable instead?

**Answer:** Only creosoted treated flanges and stringers will be accepted. In addition, All creosote members that are submerged in water shall also be protected by covering the ends with caps consisting of 12mm (1/2") of Roof Patch mastic and two thicknesses of tar-saturated fabric and a cap consisting of .050 inch thick copper sheeting. The cap shall extend 100mm from the end of the timber. Attach with ten to twelve copper nails.

**Question No 31:** DWG E968-07 Float section shows a weld but no description of the weld for the sub deck frame. Will there be an update weld detail?

**Answer:** All welds to be 6 mm fillet welds, all around, unless noted otherwise

**Question No 32:** What is the capacity of the main wharf and can it be used for equipment to work off for construction of the floats ?

**Answer:** Refer to Question #22. Contractor may use part of the wharf

**Question No 33:** Is it the intent to award Part 1 and Part 2 together, or can the owner select one or the other

**Answer:** See revised Unit Price Table. There is no Part 1 and Part 2 in the revised unit price table

**Question No 34:** What are the lengths of the piles?

**Answer:** Refer to Question #18

**Question No 35:** Is spiral pipe acceptable ?

**Answer:** Yes

**Question No 36:** Will NDT be required on the pile splices ?

**Answer:** Yes

**Question No 37:** Please provide the pile anode specification.

**Answer:** See notes on Drawing No: E968-03: New Float for MSPV – Section A, Notes Rev B

**Question No 38:** Please provide details for the pile brackets.

**Answer:** Refer to additional Drawing No: E968-11: Pile Brackets and Transitional Plates – Details.

**Question No 39:** Please provide details for the transition plates.

**Answer:** Refer to Question 26

**Question No 40:** Please provide the floatation billet specifications.

**Answer:** Section 02 48 00 Buoyancy Billet has been added to form part of the specification

**Question No 41:** There are 5 piles and 1 cleat that will not work in their present location. There are interferences with the splices. How far can we move them ?

**Answer:** Refer to Question #24

**Question No 42:** Are you able to drill holes after treatment, with the installation of the cleat assembly and pile crossties, it effects railing, joists and stringers in various locations? We would end up with customized pieces throughout the standard modules.

**Answer:** Yes. See note 7 on drawing E968-03: New Float for MSPV – Section A, Notes Rev B

**Question No 43:** Is the decking going to be 2440 ,the deck requires 3352 ?

**Answer:** Refer to Question #19

**Question No 44:** On the cleat assembly, is there a reason the holes in the angle frame are not symmetrical, you have 600mm from one end and 500mm from the other? The crosstie will need to be assembled in a set way.

**Answer:** They should be the same dimension. Drawing No: E968-07: New Float for MSPV – Cleat Reinforcement Details, Sheet 1 Rev B has been revised to show 500mm.

**Question No 45:** The 12meter float will require custom ends as well unless you can make it 14.78 m.

**Answer:** Yes, custom ends are required and it is up to the Contractor to work out the details

**Question No 46:** When we took a look at timber frame dock drawings the splice blocks interfere in a few areas. Can cleat and pile locations be moved and will engineering update the drawings to reflect modifications to timber framing ?

**Answer:** In response to the cleat and pile locations, refer to Question #24. No engineering updated drawings will be issued. Issues will be addressed during shop drawing submittals by the Contractor prior to fabrication.

**Question No 47:** What are the specifications on the coating required for pilings ?

**Answer:** Refer to Question #1

**Question No 48:** Will the AutoCAD files for the floats be available to the successful contractor to prepare the shop drawings for this project ?

**Answer:**

**Question No 49:** Does the owner require the floats to be dry fit and then disassembled prior to treating ?

**Answer:** Yes, the floats are to be dry fitted and then disassembled prior to treatment.

**Question No 50:** In the spec you require that the float manufacturer must have produced floats that have been in the saltwater for 5 years. If the concrete plant is CPCI certified and can prove they have the ability will that be accepted as alternative

**Answer:** The minimum requirement will either the manufacturer must have produced floats that have been in the saltwater for 5 years or proof of CPCI certified

**Question No 51:** Would a design-build heavy duty aluminum dock alternative be considered

**Answer:** No alternate design will be considered

## Section 02 48 00 – Buoyancy Billets

### Part 1 General

#### 1.1 RELATED REQUIREMENTS

- .1 Section 02 50 00 – TIMBER FLOATS

#### 1.2 REFERENCE DRAWINGS

- .1 FM9-ST-000: 2.742m WIDE STANDARD FLOAT MODULE ASSEMBLY
- .2 FM9-ST-001: 2.742m WIDE STANDARD FLOAT MODULE
- .3 FM9-ST-002: 2.742m WIDE STANDARD FLOAT MODULE ASSEMBLY
- .4 FM9-ST-003: 2.742m WIDE STANDARD FLOAT MODULE ASSEMBLY
- .5 FM9-END-200: 2.742m WIDE FLOAT MODULE 2005 REVISION
- .6 FM9-END-201: 2.742m WIDE FLOAT MODULE 2005 REVISION

### Part 2 Products

#### 2.1 GENERAL

- .1 The dimensions of the finished coated billets are to be as diagrammed. It is the contractor's responsibility to ensure that the finished billets will fit into the frame of the float without damage.
- .2 For assembly the buoyancy billets shall be secured to the float frame members with nylon banding or plastic strapping.
- .3 The billets of the floats will be coated with polyethylene as specified in this section.
- .4 Buoyancy billets will not be accepted if damaged in any manner in handling. Repairs by field welding may be accepted.

#### 2.2 PHYSICAL PROPERTIES

- .1 The materials will meet or exceed the following standards:

PROPERTY	POLYSTYRENE
Compressive Strength at 10% deformation (minimum):	76kPa
Tear Strength: (minimum)	N/A
Flexural Strength (minimum):	124 kPa
Water Absorption	6%

By volume (maximum):	
Density (minimum):	16 kg/m <sup>3</sup>

### 2.3 **POLYSTYRENE**

- .1 The expanded polystyrene will be a uniform cellular structure free of voids resulting from unexpanded components or any other causes. If a beaded product is to be used, the beads will be fused so that when the product is broken by hand pressure, there is an excess of broken or sheared beads.
- .2 The billets to be built-up to correct vertical depth using thinner layers, providing the bonding method is approved by the Engineer. No vertical joints will be permitted within the billet. Before coating the polystyrene billets will be cured to minimize moisture content.
- .3 Polystyrene will contain 100% virgin bead (no reground material is permitted).

### 2.4 **POLYETHYLENE COATING**

- .1 Thickness: 80 mil
- .2 Accepted products for polyethylene coated billets:
  - .1 "Enviro-Float", or
  - .2 "Barr Plastics Inc." 2008 Product Catalogue ACE Models (NTS – VF Models are acceptable for non-foam filled uses) or
  - .3 "Durafloat Sales" Model d-80, or
  - .4 Alternate approved by addendum during tender period.

### 2.5 **TESTING**

- .1 Upon notification of acceptance of tender, the Contractor will submit to the Engineer a 100 x 150-x 600 mm sample of his method of bonding the materials.

## **Part 3 Execution**

### 3.1 **HANDLING OF MATERIALS**

- .1 Buoyancy billets will not be accepted if damaged in any manner in handling. This includes damage from strapping and slings.

**END OF SECTION**