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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
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Issuing Office - Bureau de distribution
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Title - Sujet Environmental Logistics Depot	
Solicitation No. - N° de l'invitation F1700-195560/A	**Amendment No. - N° modif.** 006
Client Reference No. - N° de référence du client F1700-195560	**Date** 2020-06-16
GETS Reference No. - N° de référence de SEAG PW-$PWY-020-8768	
File No. - N° de dossier PWY-9-42228 (020)	**CCC No./N° CCC - FMS No./N° VME**
Solicitation Closes - L'invitation prend fin **at - à** 02:00 PM **on - le** 2020-06-26	**Time Zone** **Fuseau horaire** Pacific Daylight Saving Time PDT
F.O.B. - F.A.B. **Plant-Usine:** ☐ **Destination:** ☑ **Other-Autre:** ☐	
Address Enquiries to: - Adresser toutes questions à: Ly, Ronny(PWY)	**Buyer Id - Id de l'acheteur** pwy020
Telephone No. - N° de téléphone (604) 318-5750 ( )	**FAX No. - N° de FAX** (604) 775-6633
Destination - of Goods, Services, and Construction: **Destination - des biens, services et construction:** DFO – Port Hardy, BC	

Instructions: See Herein

Instructions: Voir aux présentes

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Vendor/Firm Name and Address **Raison sociale et adresse du fournisseur/de l'entrepreneur** **Telephone No. - N° de téléphone** **Facsimile No. - N° de télécopieur**	
Name and title of person authorized to sign on behalf of Vendor/Firm (type or print) **Nom et titre de la personne autorisée à signer au nom du fournisseur/ de l'entrepreneur (taper ou écrire en caractères d'imprimerie)** **Signature** **Date**	

Canada

This Amendment 006 is raised to issue Addendum #4.

ALL OTHER TERMS AND CONDITIONS REMAIN UNCHANGED.

ADDENDUM #4

Date: June 15, 2020

PACIFIC REGION
PORT HARDY LOGISTICS DEPOT
PORT HARDY, B.C.
Project No: 8H500

The following revisions supersede the information contained in the original drawings and specification issued for the above named project, and shall become part thereof. No consideration will be allowed for extras due to the contractor or any subcontractor not being familiar with this Addendum.

1.0 SPECIFICATIONS

1.1 Section 10 80 00 Other Specialties
Delete:
2.1.2 Benches:
.1 Cedar Seats: Clear S4S solid cedar, 1 piece nominal 2 x 10, rounded corners And sanded.
.2 Marine grade varnish.
.3 Lengths as follows
4 units @ 18” (457 mm) high x 60” (1524 mm) long (V.I.F.)

Add:
2.1.2 Entrance floor mat:
1. Construction: Bolt-thru design with individual aluminum spacers. T-Shaped blades. Grille depth to be 1”
2. Material: Aluminum Alloy

1.2 Section 07 52 00 Modified Bituminous Membrane Roofing
Delete:
2.4 Vapour Retarder
.1 Base sheet vapour retarder: to CGSB 37-GP-56M, Styrene-Butadiene-Styrene (SBS) elastomeric polymer, prefabricated sheet, polyester reinforcement, weighing 180 g/m².
.1 Top and bottom surfaces: sanded/thermofusible.

Add:
2.4 Vapour Retarder
.1 Base sheet vapour retarder: to CGSB 37-GP-56M, self-adhering Styrene-Butadiene-Styrene (SBS) elastomeric polymer, prefabricated sheet, polyester reinforcement, weighing 180 g/m².

1.3 Section 07 52 00 Modified Bituminous Membrane Roofing
Delete:
3.4 Vapour Retarder
.1 Install peel and stick continuous over installed gypsum sheathing. Extend up vertical surfaces as shown and tie into air/vapour barrier as indicated or required.

Add:
3.4 Vapour Retarder
.1 Install self-adhering membrane continuously over sheathing. Extend up adjacent vertical surfaces and tie into air/vapour barrier as indicated or required.

1.4 Section 07 52 00 Modified Bituminous Membrane Roofing
Delete:
2.5.1.6 ULC certification: Class A

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1.5 Section 07 52 00 Modified Bituminous Membrane Roofing
Delete:
2.5.2.3.1 Colour for granular surface: red.

1.6 Section 07 52 00 Modified Bituminous Membrane Roofing
Delete:
2.5.2.6.10 White colour high reflective surface

1.7 Section 07 61 00 Sheet Metal Roofing
Add:
1.8 Guarantee
.2 Upon completion of work, this Contractor shall furnish Owners with a 10-YEAR R.C.A.B.C. Roof Star Guarantee on all work of this section.

1.8 Section 32 31 13 Fencing
Delete:
(entire specification)

Add:
1.0 GENERAL

1.1 RELATED SECTION
.1 DIVISION 01 - GENERAL REQUIREMENTS: Drawings, quality, product and performance requirements, general and supplemental conditions apply as applicable to the project and project documents.

1.2 SUMMARY
.1 This Section includes industrial/commercial chain link fence and gates specifications:
.1 Galvanized steel chain link fabric.
.2 Galvanized steel framework and fittings.
.3 Swing gates.
.4 Installation.

1.3 REFERENCES
.1 ASTM A121 Specification for Metallic-Coated Carbon Steel Barbed Wire.
.2 ASTM A392 Specification for Zinc-Coated Steel Chain-Link Fence Fabric.
.3 ASTM A491 Specification for Aluminum-Coated Steel Chain-Link Fabric.

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.4 ASTM A780 Standard Practice for Repair of Damaged and Uncoated Areas of Hot- Dip Galvanized Coatings.
.5 ASTM A817 Specification for Metallic-Coated Steel Wire for Chain Link Fence Fabric and Marcelled Tension Wire,
.6 ASTM A824 Specification for Metallic-Coated Steel Marcelled Tension Wire for Use With Chain Link.
.7 ASTM F552 Standard Terminology Relating to Chain Link Fencing.
.8 ASTM F567 Standard Practice for Installation of Chain Link Fence.
.9 ASTM F626 Specification for Fence Fittings.
.10 ASTM F668 Specification for Polymer Coated Chain Link Fence Fabric.
.11 ASTM F900 Specification for Industrial and Commercial Swing Gates.
.12 ASTM F934 Specification for Standard Colors for Polymer-Coated Chain Link/
.13 ASTM F1043 Specification for Strength and Protective Coatings of Steel Industrial Chain Link Fence Framework.
.14 ASTM F1083 Specification for Pipe, Steel, Hot-Dipped Zinc-Coated (Galvanized) Welded, for Fence Structures.
.15 ASTM F1184 Specification for Industrial and Commercial Horizontal Slide Gates.
.16 ASTM F1345 Specification for Zinc-5% Aluminum-Mischmetal Alloy-Coated Steel Chain-Link Fence Fabric.
.17 ASTM F1664 Specification for Poly (Vinyl Chloride) (PVC) and Other Conforming Organic Polymer-Coated Steel Tension Wire Used with Chain-Link Fence.
.18 ASTM F1665 Specification for Poly (Vinyl Chloride) (PVC) and Other Conforming Organic Polymer-Coated Steel Barbed Wire Used with Chain-Link Fence.
.19 ASTM F1910 Specification for Long Barbed Tape Obstacles.
.20 ASTM F1911 Standard Practice for Installation of Barbed Tape.
.21 ASTM F2200 Specification for Automated Vehicular Gate Construction.

ADDENDUM #4

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.22 UL325 Automatic operators: Door, Drapery, Gate, Louver and Window.

1.4 SUBMITTALS

.1 Shop drawings: Site plan showing layout of fence location with dimensions, location of gates and opening size, cleared area, elevation of fence, gates, footings and details of attachments. Comply with the provisions of Section 01 33 00.

1.5 QUALITY ASSURANCE

.1 Fence contractor: Company with demonstrated successful experience installing similar projects and products in accordance with ASTM F567 and have at least 5 years related experience.

.2 Tolerances: Current published edition of ASTM specifications tolerances apply. ASTM specification tolerances supersede any conflicting tolerance.

2.0 PRODUCTS

2.1 CHAIN LINK FABRIC

.1 Galvanized steel chain link fabric, 1830mm (6 feet) high, 9 guage, 50mm (2”) mesh, with knuckle selvage at top and bottom.

2.2 ROUND STEEL PIPE FENCE FRAMEWORK

.1 Round steel pipe and rail: Schedule 40 standard weight pipe, in accordance with ASTM F1083, 1.8 oz/ ft² (550 g/m²) hot dip galvanized zinc exterior and 1.8 oz/ft² (550 g/m²) hot dip galvanized zinc interior coating. Regular Grade: Minimum steel yield strength 30,000 psi (205 MPa).

.1 Line post: 1.900 in. (60.3 mm) OD.
.2 End, Corner, Pull post: 1.900 in. (60.3 mm) OD.
.3 Top and brace rails: 1.660 in. (42.2 mm) OD.

2.3 TENSION WIRE

.1 Metallic Coated Steel Marcelled Tension Wire: 7 gauge (0.177 in.) (4.50 mm) marcelled wire complying with ASTM A824.

2.4 FITTINGS

.1 Tension and Brace Bands: Galvanized pressed steel complying with ASTM F626, minimum steel thickness of 12 gauge (0.105 in.) (2.67 mm),

minimum width of 3/4 in. (19 mm) and minimum zinc coating of 1.20 oz/ft² (366 g/m²). Secure bands with 5/16 in. (7.94 mm) galvanized steel carriage bolts.

.2 Terminal Post Caps, Line Post Loop Tops, Rail and Brace Ends, Boulevard Clamps, Rail Sleeves: In compliance to ASTM F626, pressed steel galvanized after fabrication having a minimum zinc coating of 1.20 oz/ft² (366 g/m²).

.3 Truss Rod Assembly: In compliance with ASTM F626, 3/8 in. (9.53 mm) diameter steel truss rod with a pressed steel tightener, minimum zinc coating of 1.2 oz/ft² (366 g/m²), assembly capable of withstanding a tension of 2,000 lbs. (970 kg).

.4 Tension Bars: In compliance with ASTM F626. Galvanized steel one-piece length 2 in. (50 mm) less than the fabric height. Minimum zinc coating 1.2 oz. /ft² (366 g/m²). Minimum cross section of 3/16 in. (4.8 mm) by 3/4 in. (19 mm).

.5 TIE WIRE and HOG RINGS: 9 gauge aluminum alloy ties and hog rings per ASTM F626.

2.5 SWING GATES

.1 Swing Gates: Galvanized steel pipe welded fabrication in compliance with ASTM F900. Gate frame members 1.900 in. OD (48.3 mm) Frame members spaced no greater than 8 ft. (2440 mm) apart vertically and horizontally. Welded joints protected by applying zinc- rich paint in accordance with ASTM Practice A780. Positive locking gate latch, pressed steel galvanized after fabrication. Galvanized malleable iron or heavy gauge pressed steel post and frame hinges. Provide lockable drop bar and gate holdbacks with double gates. Match gate fabric to that of the fence system. Gateposts per ASTM F1083 schedule 40 galvanized steel pipe, 8.625 in. (21901mm) OD.

2.6 CONCRETE

.1 Concrete for post footings shall have a 28-day compressive strength of 2,500 psi. (17.2 MPa).

3.0 EXECUTION

3.1 CLEARING FENCE LINE

.1 Clearing: Surveying, clearing, grubbing, grading and removal of debris for the fence line near a property line requires prior approval of Departmental Representative.

ADDENDUM #4

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3.2 FRAMEWORK INSTALLATION

.1 Posts: Posts shall be set plumb in concrete footings in accordance with ASTM F567. Minimum footing depth, 24 in. (609.6 mm) plus an additional 3 in. (76.2 mm) depth for each 1 ft. (305 mm) increase in the fence height over 4 ft. (1220 mm). Minimum footing diameter four times the largest cross section of the post up to a 4.00” (101.6 mm) dimension and three times the largest cross section of post greater than a 4.00” (101.6 mm) dimension. Top of concrete footing to be at grade, crowned to shed water away from the post. Line posts installed at intervals not exceeding 10 ft. (3.05 m) on center.

.2 Top rail: install rail continuously thru the line post loop top. Splice rail using top rail sleeves minimum 6 in. (152 mm) long. Rail shall be secured to the terminal post by a brace band and rail end.

.3 Terminal posts: End, corner, pull and gate posts shall be braced and trussed. The horizontal brace rail and diagonal truss rod shall be installed in accordance with ASTM F567. Gatepost foundations require approval by Departmental Representative prior to installation.

.4 Tension wire: Shall be installed 4 in. (101.6 mm) up from the bottom of the fabric. Fences without top rail shall have a tension wire installed 4 in. (101.6 mm) down from the top of the fabric. Tension wire to be stretched taut, independently and prior to the fabric, between the terminal posts and secured to the terminal post using a brace band. Secure the tension wire to each line post with a tie wire.

3.3 CHAIN LINK FABRIC INSTALLATION

.1 Chain Link Fabric: Install fabric to outside of the framework maintaining a ground clearance of no more than 2 inches (50 mm). Attach fabric to the terminal post by threading the tension bar through the fabric; secure the tension bar to the terminal post with tension bands and 5/16 in. (7.94 mm) carriage bolts spaced no greater than 12 inches (304.8mm) on center. Small mesh fabric less than 1 in. (25 mm), attach to terminal post by sandwiching the mesh between the post and a vertical 2 in. wide (50mm) by 3/16 in. (4.76 mm) galvanized steel strap using carriage bolts, bolted thru the bar, mesh and post spaced 15 in. (381 mm) on center. Chain link fabric to be stretched taut free of sag. Fabric to be secured to the line post with tie wires spaced no greater than 12 inches (304.8 mm) on center and to horizontal rail spaced no greater than18 inches (457.2 mm) on center.

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Secure the fabric to the tension wire by crimping hogs rings around a fabric wire picket and tension wire.

3.4 GATE INSTALLATION

.1 Swing Gates: Installation of swing gates and gateposts in compliance with ASTM F 567. Direction of swing shall be inward. Gates shall be plumb in the closed position having a bottom clearance of 3 in. (76 mm), grade permitting. Hinge and latch offset opening space shall be no greater than 3 in. (76 mm) in the closed position. Double gate drop bar receivers shall be set in a concrete footing minimum 6 in. (152 mm) diameter 24 in. (609.6 mm) deep. Gate leaf holdbacks shall be installed for all double gates.

3.5 CLEAN UP

.1 Clean Up: The area of the fence line shall be left neat and free of any debris caused by the installation of the fence.

END OF SECTION 32 31 13

2.0 QUESTIONS

Q.1	07 52 00 – MBM Roofing - Can you please confirm flat roof vapour barrier type? Roofing products and roof execution list two different products.
A.1	Vapour barrier shall be self-adhering as per corrected specification 07 52 00 noted above.
Q.2	07 52 00 – MBM Roofing - Is gypsum board to be installed over plywood deck?
A.2	No. See corrected specification 07 52 00 noted above.
Q.3	Spec. Section 09 91 13 - Exterior Painting calls for MPI Inspections and a 2 year bond/guarantee, however, this is not requested in 09 91 23 - Interior Painting. Is the bonding only required for the exterior work?
A.3	Yes.
Q.4	Please can you provide a specification for the recessed entry mat in Rm 101 - Main Entrance.
A.4	See updated specification section 10 80 00 above.
Q.5	Section 07 52 00 - 2.4.1 In this section is asking for a Vapour retarder with a thermofusible bottom surface. This would mean that the vapour barrier would be torched applied over a plywood deck. Is this the intention? since this is not recommended for the hazard it represents.
A.5	No. See corrected specification 07 52 00 noted above.
Q.6	Section 07 52 00 – 2.5.1.6

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	On the membrane section for the base sheet it is asking for a ULC Class A Fire Rated base sheet. There is only Fire Rated Cap Sheets in the market with the description in the Specification.
A.6	See revised specification 07 52 00 as noted above.
Q.7	Section 07 52 00 - 2.5.2.10 In this section it is requesting a Cap Sheet with “White colour high reflective surface”. Is there and SRI value requirement? Or could this be changed for a light colour cap sheet?
A.7	See revised specification 07 52 00 as noted above.
Q.8	Page 1 of section 02 82 00, point 2 under 1.4 Definitions defines asbestos containing materials as, ‘ACM’s that contain 0.1 provincial regulated amount percent or more asbestos by dry weight’. WSP designated substances survey, table 4, indicates black mastic on perimeter foundation as non-containing at 0.25% asbestos. Please confirm if the black mastic is to be removed as hazardous waste or deemed non-hazardous.
A.8	The black mastic may be deemed non-hazardous. As per WSP’s Designated Substances Survey (DSS) report dated January 17, 2020, Section 2.1 notes that “DFO, on behalf of its client, the Federal Government, must conform to all Federal, Provincial, Territorial and Municipal regulations, laws and stipulations regarding asbestos-containing materials located in buildings and installations belonging to or leased by its client.” With regards to regulatory context, the federal government typically defers to the provincial regulatory standard in which the subject property is located in. In the case of the subject property, it is located in British Columbia (BC), and therefore the BC regulatory standards for asbestos would apply. According, Section 2.1 of WSP’s DSS report goes on to note that “ In British Columbia as of February 1, 2012, the definition of asbestos-containing material (ACM) for manufactured articles or other material, other than vermiculite insulation, includes materials that contain at least 0.5% asbestos, as determined by methods referenced in BC OHSR section 6.1. Vermiculite insulation containing any asbestos, as determined by the referenced method, is also an ACM.” Therefore, the applicable standard is not as noted above 0.1% but rather 0.5% (excluding vermiculite). The black mastic on the exterior of the perimeter foundation was found to have a concentration of asbestos below the WorkSafeBC limit of 0.5%. By definition the black perimeter foundation mastic at 0.25 % Chrysotile is not considered an asbestos material and therefore not a hazardous waste in BC. However, “consideration should be given towards its removal based on commonly implemented safety principles for maintaining As Low As Reasonably Achievable (ALARA) risk of exposure. If so undertaken, the removal should be completed using safe work practices and procedures outlined in the WorkSafeBC publication "Safe Work Practices for Handling Asbestos" and the Occupational Health and Safety (OHS) Guideline G6.8 prior to demolition activities.
Q.9	Page 4 of section 02 83 00, point 3 under 1.7 Waste Management and Disposal describes the disposal of lead waste. WSP Designated Substance survey indicates that lead based materials are not leachable and are below limit to be considered hazardous waste. Please confirm if the material with lead-based coatings are to be treated as hazardous waste or non-hazardous waste.
A.9	The material with lead-based coatings may be treated as non-hazardous.

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	Section 6.5 of WSP's DSS report notes after Table 7 the "the TCLP samples were analyzed by International Asbestos Testing Laboratories (iATL) following the Toxicity Characteristic Leaching Procedure (TCLP). The samples were analyzed in accordance with EPA Method 6020A Metals by TCLP. This method complies with the Hazardous Waste Regulation as defined by the BC Ministry of Environment. The total allowable concentration in waste extract for lead as defined in the Hazardous Waste Regulation is < 5 mg/L. The sample results for the selected samples of non-metallic based substrates with surface coatings analyzed are below the BC Ministry of Environment Special Waste criteria of 5 mg/L and therefore may be disposed of as non-hazardous waste. This non-hazardous waste designation does not negate the requirements for safe handling of surface coated materials wherein five of the eleven paints sampled and analyzed for lead content where found to have detectible concentrations of lead. For these five paints, as per Section 8 of WSP's DSS report — "Proper procedures and documentation such as safe work practices, an exposure control plan, risk assessments and/or other controls must be developed to mitigate the risk of exposure to lead for all workers. When evaluating risk, the concentration of lead in paint and the activity must be considered together."
Q.10	The Flat roofing requires an RCABC 10 year warranty can we confirm the sloped roofing is not to receive an RCABC Warranty.
A.10	All roofs shall receive RCABC 10-year Roof Star Guarantee. See revised specification 07 61 00 above.
Q.11	Section 32 31 13 (3.3) fence construction says that all posts are coped to accept top rail and no crimping or flattening of pipe will be permitted. In order to weld 1 5/8" or even 1 7/8" top rail into the top of coped 2 3/8" posts we would need to crimp or flatten 2 3/8" posts to pinch smaller pipe into place before welding.
A.11	Fence will not require welding nor crimping. See new fencing specification.
Q.12	In relation to the walk-in cooler and freezer; the model numbers on the evaporators do not match the voltage spec. can you please clarify this and confirm voltage requirements
A.12	Cooler Evaporator EVP-2 model number to be: BEL105BSAEA. Provide 208-230/1/60 and single speed EC motor.
Q.13	Will drawings be made available showing crane location prior to tender close?
A.13	No, contractor shall be responsible for crane location.
Q.14	I can not find the millwork finish schedule referred to in spec. section 6400 page 3 item 2.1.1. Can you please ask the consultant where this finish schedule is?
A.14	See page 1 of Appendix 'H'
Q.15	Has the owner completed a stability test to confirm that the ramp/float combination is safe to tow to site as is or is the contractor expected to complete that prior to planning transportation and then perhaps lift the ramp onto a separate barge.? Have the Ramp and float been fabricated already? Has the Ramp Been loaded onto the float already? Where and when can we view them independently or as a package?

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A.15	Owner will provide float and ramp with ramp secured onto float in a stable and seaworthy manner. Contractor is responsible for safe owing of float and ramp to site. Ramp and float have not yet been fabricated.
Q.16	Do you have a weight of the 40m ramp? Will the grating be on or sit it to be installed after? What is the grating weight if not installed?
A.16	Total weight of the ramp 85 tonnes (= 833.6kN = 85,000kg = 93.7 short tons = 187,393 pounds), which includes frame (58 tonnes), grating (16 tonnes), and aprons (11 tonnes). Ramp shall be supplied by owner completely assembled and loaded onto float for transport.
Q.17	*(Bidder believes pilings can not be installed as designed due to large tidal range, lack of overburden, and small tolerances.)*
A.17	Interested bidders may bid project as designed and specified.
Q.18	What is the required pile tolerance for drilled marine piles?
A.18	The required pile tolerance for drilled piles is the same as outlined in section 3.5.2
Q.19	Is the Engineer aware of the conflict between one of the existing steel piles and pile P8? Even if the existing pile could be removed, there is high probability it would complicate the new P8 pile installation. What is the contingency plan for this scenario?
A.19	We do not anticipate a conflict as the space between the existing piles and the nearest new pile is approximately 6m.
Q.20	Specification 01 35 33 Marine Health & Safety Requirements clause 1.6.1 notes responsibility of the Prime Contractor under this contract. Please clarify the intention here as the GC would generally be the Prime Contractor.
A.20	The labels “Prime Contractor,” “General Contractor,” and “Contractor” shall be considered synonymous for the purposes of this tender and contract.
Q.21	Specification 01 35 43 Environmental Procedures clause 1.2.1 says vessels and floating equipment should no come to rest on the intertidal or sub-tidal zones unless specified otherwise. Can land based equipment enter the intertidal zone within the revetment footprint to place Filter and Armour Rock?
A.21	While works within the intertidal zone should be avoided whenever possible, limited works within the intertidal zone may be permitted if appropriate mitigation measures are employed. Examples of such measures may include: - Conducting works during low tide, if possible, to avoid conducting works in wetted areas, - Ensuring an Environmental Monitor is onsite to oversee works below the high water mark, - Maintaining clean, leak-free equipment that is in good working condition, - Keeping an emergency spill kit on-site at all times, - Adopting a Spill Response Plan in case any leaks occur within the intertidal environment, - Minimizing the use of equipment below the high water mark, - Completing works as quickly as possible, once started, - Employing appropriate sediment and erosion control measures (e.g. silt curtain), as necessary.

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Q.22	I was passed the drawings for this project by a couple electrical distributors in town looking to source the transformers shown on this project. We are an Electrical Manufacturer's Representative and work with Marcus Transformers (who are Canadian based and have many installations across Canada and in BC) Upon review of the drawings and specifications I just wanted to confirm with you that you don't have any preference with regards to winding material (Copper or Aluminum) and to confirm if you have any specific requirements for the transformers (Electro-static Shielding, K factor, etc.?) beyond the 2 that are shown as Epoxy Encapsulated?
A.22	Contractors do not need to provide conditions beyond those listed in the electrical specifications and drawings.
Q.23	Has there been an eel grass or kelp beds surveys completed in the area of the marine works?
A.23	An underwater assessment was conducted by Pacificus Biological Services Ltd. in December 2019. No significant eelgrass beds or kelp forests were identified at the site. Subtidal clam siphons were noted occasionally throughout the assessed area; however, no substantial clam beds were observed.
Q.24	Are there any restrictions to spudding down marine equipment?
A.24	Spudding should avoid sensitive habitats (e.g. eelgrass, clam beds) and should be kept to the minimum amount possible to reduce the impacted area. Once initiated, works conducted should be completed in a timely manner to reduce impacts to the seafloor.
Q.25	What are the DFO requirements for barrier curtains?
A.25	Site isolation measures (e.g. silt curtain) should be employed to contain suspended sediments where in-water work is required, particularly if sedimentation may affect nearby habitats.
Q.26	Reference Specification 31 61 13 clause 2.1.3 - Are pile shoes required for any piles?
A.26	No.
Q.27	Reference Specification 31 61 13 clause 3.9.2 – Is the Contractor responsible for removing surface obstructions observed on the seabed during the pre-pile dive survey? What if these obstructions are partially buried?
A.27	See specification 31 61 13 section 3.9.3
Q.28	Reference Specification 31 61 13 clause 3.5.1.13 indicates the pile is cleaned out and inspected with video for the Abutment piles only. Please confirm video inspection is not required for the 42" piles.
A.28	Confirmed.
Q.29	Seen in the photos and drawings, there are 3 steel piling currently in the water. Are those to remain or to be removed with the existing wharf demo?
A.29	All pilings are to be removed.
Q.30	The float size is 52.440m x 17.074m x 1.718m. In the specifications and addendums, the drawings indicate 26.22m x 8.537m x 1.695m. Therefore two (2) standard concrete float module(s) are used

ADDENDUM #4

Date: June 15, 2020

PACIFIC REGION
PORT HARDY LOGISTICS DEPOT
PORT HARDY, B.C.
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	to achieve the final dimensions. How are these module(s) connected? Are they connected? Does the contractor need to connect them?
A.30	The concrete float is one monolithic structure with overall dimensions of 52.440m x 17.074m x 1.746m.
Q.31	In addendum 3, it indicated the ramp was 40ft hinge to hinge, which was a typo and corrected in addendum 2. Is the weight of 200kN still valid?
A.31	No, see A.16 of this addendum.
Q.32	Indicated in the marine drawing package, drilling is necessary. Can the drilled material (marine sediments), be placed in the fill zones on land or does it need to follow Section 3.5.1 Material Disposal, subsection .1, “disposal of debris shall be performed in an environmentally sensitive manner at upland site(s)”.
A.32	The material should be removed as outlined in the specification.
Q.33	What is the estimated value of the vehicle ramp and concrete float? (This is regarding insurance purposes)
A.33	Float: $1.2 million. Ramp: $800,000.
Q.34	Can you show the electrical grounding requirements for the Access Floor System in rooms 201 and 202
A.34	The electrical contractor is to provide bonding (grounding) for the flooring system as per the current edition of the applicable electrical code and as per the manufacturer’s requirements.
Q.35	Indicated in the drawings the eight (8) piles for the concrete float need a PVC Pile Cap installed. After reaching out to suppliers, PVC Pile Caps max out at 20” diameter. Please indicate that an alternative 1076mm (42”) Fiberglass Pile Cap can be substituted.
A.35	Pile caps may be fiberglass.
Q.36	The drawings indicate a pipe aluminum anode (200mmx200mmx1120mm), but in the specifications it indicates to use a cable aluminum anode (100mmx100mmx1270mm). Please advise the type, dimensions, quantity that is required for the installation.
A.36	Anodes should as per Drawing 103. See updated Cathodic Protection Specification in Addendum #3.
Q.37	Is an Environmental Monitor required on the project?
A.37	An Environmental Monitor should be on-site for any works conducted below the HWM and should be available throughout the project to provide advice, as needed.
Q.38	Reference: Best Management Practices for Pile Driving and Related Operations. Underwater Drilling. 3rd bullet allows for drill cuttings to be contained on the seabed, with land disposal when drill cuttings are determined unsuitable for the marine environmental. For this project, are the drill cuttings considered unsuitable for return to the marine environment?
A.38	Yes – the drill cuttings are considered unsuitable for return to the marine environment.
Q.39	Will the 40m long Vehicle Ramp have all grating installed? If not, please provide plan/details of grating to be installed.

ADDENDUM #4

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A.39	Yes
Q.40	Will the Vehicle Ramp be fully assembled with the Abutment and Float Aprons (complete with apron fingers) installed?
A.40	The aprons will not be assembled. The Contractor will be required to assemble the aprons.
Q.41	What is the weight of the fully assembled Vehicle Ramp? (Or the weight of each individual piece if not fully assembled)
A.41	See A.16
Q.42	Included in the demo, three (3) marine piles are needed to be removed. Can you please provide details, such as: material (steel or timber), diameter, wall thickness (if steel), embedment depth, and are they drilled or driven? If unable to be removed, can they be cut at mudline?
A.42	All available information related to existing marine infrastructure has been provided. Existing piles are to be completely removed.
Q.43	Where should the excavation of the existing shoreline (in order to build the new revetment) be priced?
A.43	Please include in the lump sum amount for the project.
Q.44	Where should the General Fill under the Filter & Amour rock be priced?
A.44	Please include in the lump sum amount for the project.
Q.45	Reference Marine Dwg 101 - Section B says “Hinge Seat by Others”. Are the Hinge Seat & Pins are being supplied with the 40m long Vehicle Ramp?
A.45	As shown in the ramp drawings this will be provided with the ramp by the Owner.
Q.46	Will the 40m long Vehicle Ramp have all grating installed? If not, please provide plan/details of grating to be installed.
A.46	Yes.
Q.47	The Vehicle Ramp drawings provided in Addendum #2 do not show any lifting lugs. Will these be added during fabrication, or should the marine contractor allow to for lifting lugs to install the Vehicle Ramp? Is the Vehicle Ramp coated (and therefore will need coating touch up after field welding lifting lugs)?
A.47	The lifting lugs are shown on Sheet 10 and Detail D on Sheet 12. These will be included in the ramp fabrication.

END ADDENDUM #4