

## **ANNEX “A” – SPECIFICATIONS**

**Title: Cableway Repairs - Cableway Repairs - Water Survey of Canada Station at Yakoun River near Port Clements, British Columbia (08OA002)**

**The Contractor hereby agrees to provide the construction services outlined below in this Specifications document.**

### **1.0 Introduction**

Environment and Climate Change Canada (ECCC) maintains cableway and hydrometric gauging stations across approximately 500 sites in the Pacific and Yukon areas. The hydrometric data support activities such as policy development, infrastructure design, water allocation, flood and drought response, recreation, navigation, ecosystem protection, and scientific study.

Hydrometric stations typically consist of a “walk-in” or “look-in” instrument shelter and a cableway or metering bridge to measure discharge. Other structures include helicopter pads and access stairways. Many of the hydrometric stations were built decades ago where structural degradation has occurred over time. As such, infrastructure deficiencies and safety concerns have been identified; requiring repairs and upgrades to return these stations to operational condition.

### **1.1 Objective**

ECCC requires a Contractor to conduct construction activities to upgrade the existing cableway to a level of safety acceptable for manned operation at the Water Survey of Canada Station Yakoun River near Port Clements, B.C.

### **2.0 Project Station Location and Access**

The subject station is located approximately 45km South of Masset, BC. The station’s coordinates are roughly 53°36’50.0” N and 132°12’35.0” W. See the site maps below (Figure 1 and 2).

The home-side is located on the left bank of the river. It can be reached by driving 8km South from Port Clements along Bayview Dr. until it becomes Port Man FSR. There is a turn-off to the left into a dirt access road after the bridge over Yakoun River on Port Man FSR. There is a parking area approximately 600m along the dirt access road. From here, approximately 300m along a trail to the site, a 35-55G excavator may reach the cableway. Improvement of the trail may be required for excavator access. Any QEP will be supplied by ECCC, see section 5.5 for environmental procedures. If excavator cannot reach the site, hand digging is required.



The far-side can be reached from an access trail branching off the FSR. It can be accessed by excavator or walking. It is approximately 1km from the FSR, see figure 4 below. There is a small creek, approximately 10m in span, at 53.615°, -132.201701° that must be crossed using a portable bridge(DFO approval is required – ECCC will be in touch with DFO) to reach the site. Photos attached to tender show the access route.





~10m Creek



FSR Road and pull out

10m creek

Old logging road to the site



old logging road



Fork road to the station

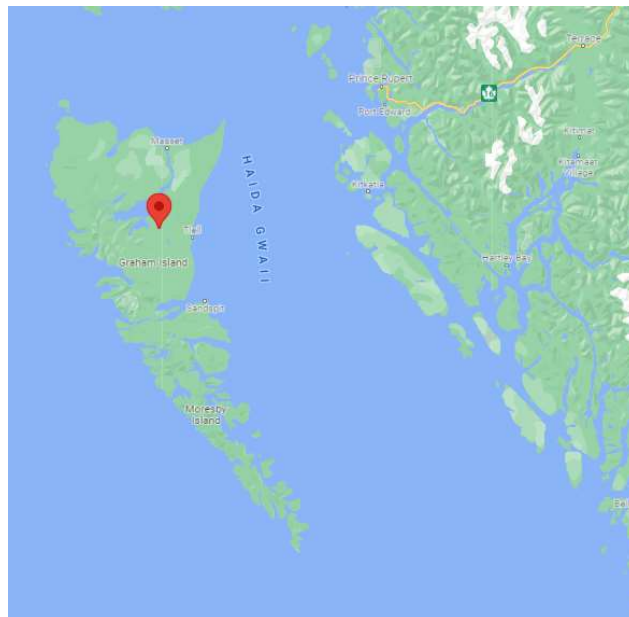


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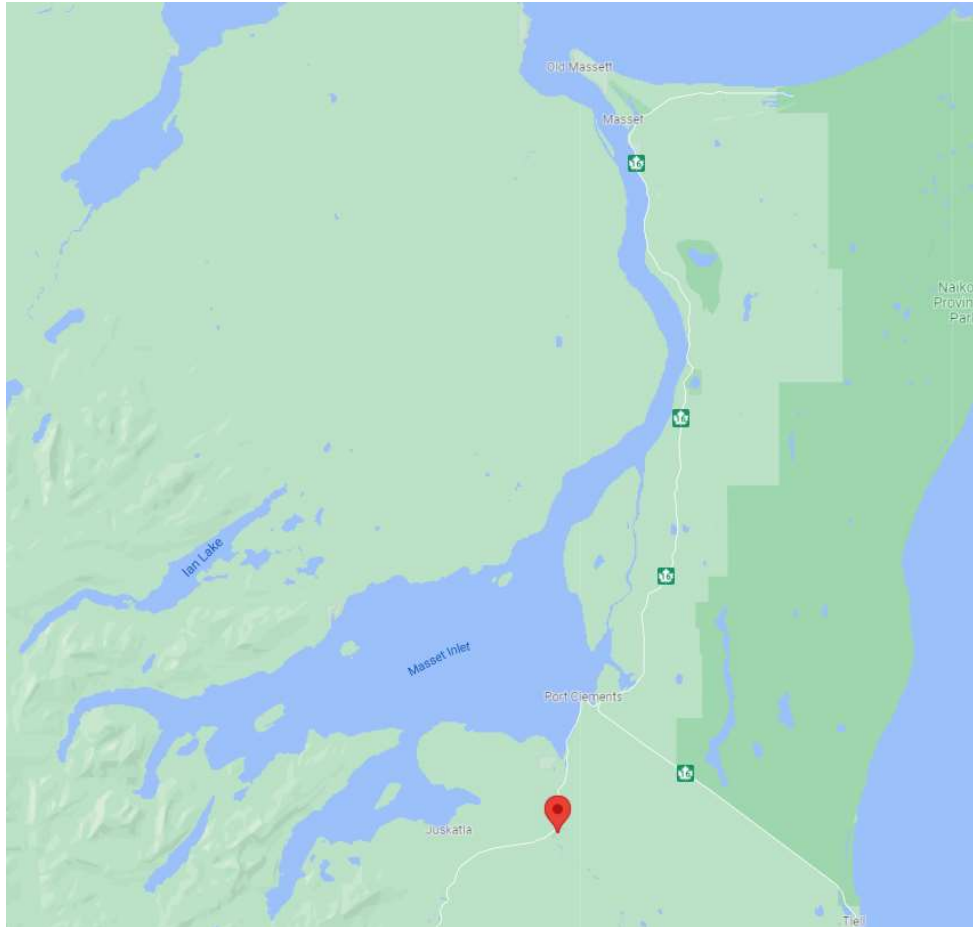
The far-side can also be reached by wading during low water. The section for wading is 200m downstream of the cableway. It is expected, but not guaranteed, that the river can be waded from June to August. It is not expected that the water level will be low enough to allow crossing of an excavator. Any vehicles for access are to be provided by the Contractor. If excavator cannot reach the site, hand digging is required.

The site is located on culturally sensitive land. Care must be taken in regards to maintaining the condition of the surrounding area. A chance-find procedure must be developed by the Contractor prior to mobilization. An Archaeological monitor will be on-site throughout the excavation.

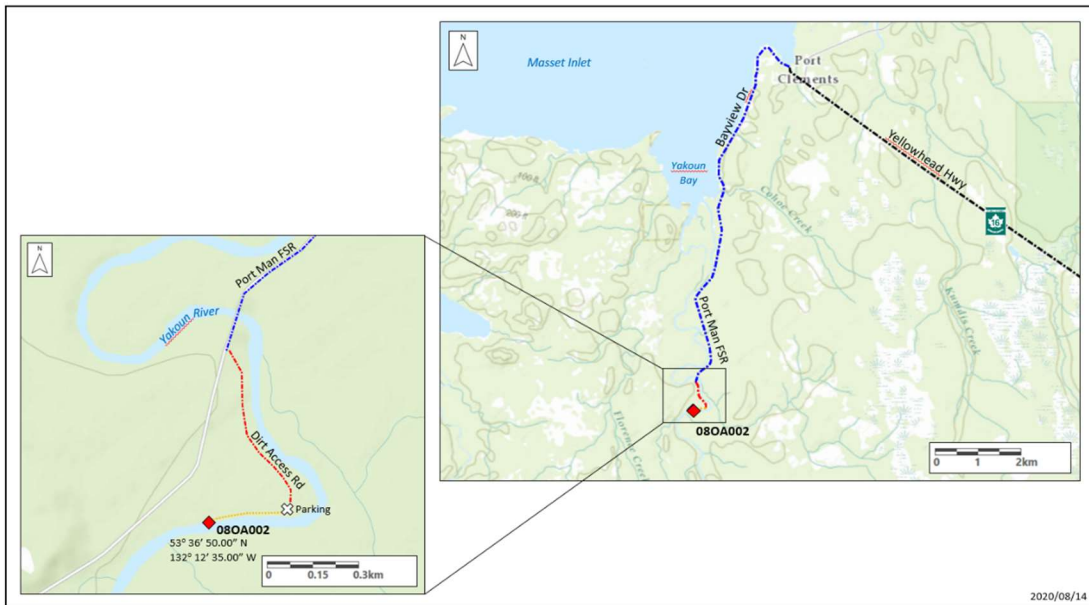
Both banks can become fully saturated at high water. It may not be possible to excavate the area during high water events. Historically low water occurs between May 15 and August 1.



**Figure 1:** Yakoun River Station Site



**Figure 2:** Yakoun River Location from Masset, BC



**Figure 3:** Yakoun River Access

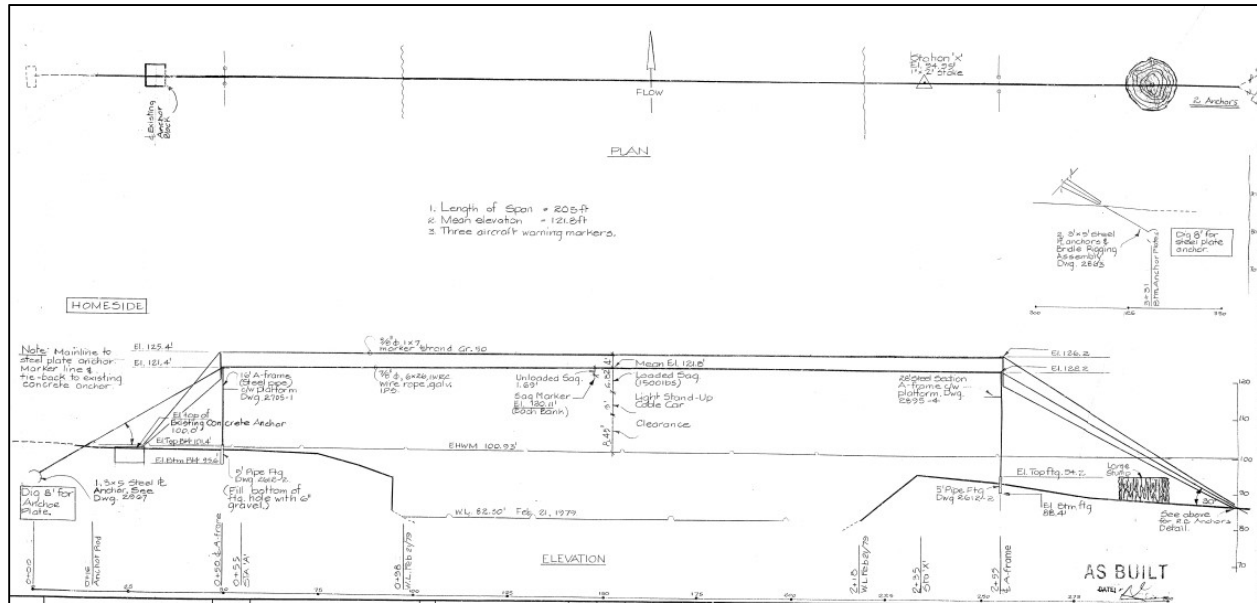




**Figure 4:** Yakoun River Far-Side Access

### 3.0 Existing Infrastructure

The existing cableway (Figure 3) spans approximately 65m across the Yakoun River.



**Figure 5:** Yakoun River Existing Structure

The left bank consists of a 4.9m (16ft) A-frame and a single steel plate anchor. The plate anchor is composed of a 12ft rod with a 16in by 5ft plate at the end. Approximately 5ft in front of the steel anchor is a previously constructed concrete anchor that is used to secure the aircraft cable and tieback cable. The A-frame is made from 6in diameter pipe. It is supported by steel pipe footings at an approximate depth of 6ft. The A-frame is resting on a freely rotating hinge connection allowing rotation towards and away from the river. The A-frame is held in place by a 3/8-inch 6x19 independent wire rope core (IWRC) backstay cable extending from the concrete anchor to the top of the A-frame.

The right bank consists of a 8.5m (28ft) A-frame tower with a double plate anchor system. The plate anchors are composed of a 12ft rod with a 16in by 5ft plate, similar to the left bank. There are two of them oriented 15° from centerline, both connecting to the end of the main cable. The A-frame is made from 6in x 6in HSS tube. It is supported by a 6ft deep pipe footing. Similar to the left bank, it is connected to a hinge connection at the base and the A-frame is able to freely rotate towards and away from the river. It has a 3/8-inch 6x19 IWRC backstay cable extending from the steel plate anchor to the top of the A-frame.

The cables spanning across the river consist of a 7/8-inch 6x19 IWRC cable and 3/8-inch 6x19 IWRC marker cable. The marker cable supports 1 marker ball. The cable car type is aluminum stand-up car, approximately 2m in height.

### 4.0 Deliverables and Scope

The Contractor must provide mobilization and demobilization, all labour, supervision/project management, equipment, and supplies, as required, to complete the requested services.

ECCC will provide all materials required for construction. The work does not involve fabrication of materials by the Contractor. The Contractor must pick up and transport the materials from Richmond, BC or any other facility, including Vernon, as designated and provided by ECCC, to site location.

#### 4.1 Deliverables

The Contractor must provide the following deliverables, see section 4.2 details:

Deliverables	Description
1	Mobilization and demobilization – including material transportation to the job site
2	Installation of six (6) total steel plate anchors, three (3) on each side of the bank
3	Installation of 5m and 8m A-frames on the left and right bank, respectively
4	Installation of A-frame ladders
5	Installation of A-frame platform on both banks and railings
6	Installation of safety chain
7	Installation of four (4) 1.5m deep 1m x 1m A-frame footings
8	Installation of the main cable
9	Installation of four (4) backstay cables, two (2) on each side of the bank
10	Installation of aircraft marker cable and marker balls
11	Installation of A-frame safety loop on both banks
12	Dismantle and disposal of existing cableway infrastructure and construction waste
13	Restoration of site

#### 4.2 Scope

The below list details items included in section 4.1 Deliverables.

1. Mobilization and demobilization
  - a. Includes pick-up from Richmond BC or Vernon, BC and transport of materials to the site
  - b. ECCC expects, but does not guarantee, that the following 55G excavators can reach each bank.
  - c. Portable bridge must be used to cross the unnamed creek on the far-side.
  
2. Replace the existing anchors on each side of the cableway with three (3) new steel plate anchors as per River Cableway Drawing – General Final sheets D303 and D402
  - a. The existing steel plate anchor to be removed and disposed of
  - b. Compaction of the soil on the steel plate anchors during backfill
  - c. Anchors to be at approximately 2.5m depth, but can vary by site. The Contractor is obligated to excavate as deep as required for proper placement of infrastructure per ECCC requirements
  - d. ECCC Technical Authority will layout the anchor position
  - e. Excavation is not to be backfilled unless approval is provided by ECCC Technical Authority
  - f. Excavation to be completed by hand if excavator cannot access the site
  - g. Load test is not required for anchors, ECCC field review will be conducted prior to concealment
  
3. Replace the existing A-frame on each side per drawing 3136 Heavy Duty A-frame
  - a. Home-side: 5m
  - b. Far-side: 8m
  - c. Footings spacing per drawing 3136



- d. A-frame footing hinges do not rotate to 90° from vertical, making it difficult to pre-assemble while laying down. Supports may be required for assembly of the A-frame
      - e. Footings will be approximately 1.5m depth, but can vary by site. The Contractor is obligated to excavate as deep as required for proper placement of infrastructure per ECCC requirements
      - f. ECCC Technical Authority will layout the A-frame position
      - g. Excavation of footings to be completed by hand if excavator cannot access the site
4. Installation of ladders and ladder brackets per drawing 3136, ladder brackets for AI Ladders, and 6961.
  - a. Home-side: Two 3m ladder
  - b. Far-side: One 5m ladder and one 3m ladder
5. Installation of new platform and decking on each side
6. Installation of safety chains/safety bar at the rear of the A-frame platform
7. Footings to be excavated and a total of four (4) 1m x 1m footings to be installed, one (1) on each footing, per drawing 3136 Heavy Duty A-frame.
  - a. Re-install footings to be plumb
  - b. Spacing per drawing 3136
    - i. Home-side: 2521mm
    - ii. Far-side: 3306mm
8. Installation of the main cable with 1-inch 6x26 IWRC and all associated hardware
  - a. Hardware includes
    - i. Fist Grips, installation per River Cableway Drawing sheet D501
    - ii. Thimbles
    - iii. Sockets
    - iv. Turnbuckles
  - b. Cotter pins to be oriented to the downwards position where installed
9. Installation of the tieback cables with two (2) 1/2" 6x26 IWRC and all associated hardware
  - a. Hardware includes
    - i. Fist Grips, installation per River Cableway Drawing sheet D503
    - ii. Thimbles
    - iii. Sockets
    - iv. Turnbuckles
  - b. Cotter pins to be oriented to the downwards position where installed
  - c. To be installed to existing anchor if left in place
10. Installation of the aircraft marker cable with 3/8" 6x26 IWRC and all associated hardware
  - a. Hardware includes
    - i. Fist Grips, installation per River Cableway Drawing sheet D503
    - ii. Thimbles
    - iii. Sockets
    - iv. Turnbuckles
    - v. Marker cones or balls
  - b. Cotter pins to be oriented to the downwards position where installed
  - c. To be installed to existing anchor if left in place
  - d. Spacing of the cones/balls to be provided by ECCC on-site

11. Installation of A-frame safety loop on each side as per River Cableway Drawing sheet D403
12. Proper disposal of removed infrastructure or other waste produced by construction
  - a. All existing cableway infrastructure is to be dismantled and removed from site
  - b. Receipt of disposal to be provided to ECCC
13. Site must be restored to its original grade and condition
  - a. Before and after photos are required per section 5.2
14. Submittal of a Work Plan prior to mobilization, as outlined in section 5.1.1
15. Submittal of a Health and Safety Plan prior to mobilization, as outlined in section 5.1.2
16. The Contractor is responsible for pick-up and delivery of materials and components from Richmond, BC or any other facility, including Vernon, as designated and provided by ECCC, to site location;
  - a. ECCC will provide the list of materials and components
  - b. Pick-up address to be provided upon contract award. Will be in Richmond, BC unless otherwise provided.
  - c. The contractor is recommended to bring a flatbed trailer

Please see attachment 1 to Annex A for additional photos.

## **5.0 Considerations and General Requirements**

### **5.1 General Requirements and Procedures**

The above-noted cableway is **out of service** and **should not** be used under any circumstance for the transportation of people. Goods may be transported with the cableway with advanced approval from the Technical Authority. It is the Contractor's responsibility to ensure safety for any goods on the cableway.

#### *5.1.1 Work Plan*

The Contractor must provide a Work Plan, clearly stating their methodology for the relevant points below:

- Installation of the new steel plate anchors;
- Lowering and replacing the main cable and marker cable; the cable **must not** be left in the river for longer than 1 hour. Care is to be taken by the Contractor to ensure the cable does not cause a safety concern for any traffic within the river. Care must be taken to notify and highlight any danger to river traffic;
- Stabilizing or lowering A-frame; the A-frame **cannot** impact the river bank or be placed in the stream;
  - The steel A-frames have a pin base connection, and it is unstable under reduced tension in the existing cables – **the A-frame structure on both banks are required to be stabilized in all direction during the entire construction activity.**
- Contractor's "Chance find procedures" for Archaeological Materials; ECCC to provide a sample upon contract award.
  - The "Chance Find Procedures" is a project-specific procedure that outlines actions required if previously unknown heritage resources, particularly archaeological resources, are encountered during the project construction and operation.
- List of Contractor's tools and equipment;
  - See section 5.4 for ECCC recommendations;

- Quality control plan;
- Waste management plan;

#### *5.1.2 Safety Plan*

The Contractor must provide a Health and Safety Plan, clearly stating the procedures for ensuring safety throughout the project. This should include steps in the case of emergency, in the case of potential construction problems, and everyday procedures to promote safety. If at the time of construction the COVID-19 pandemic is ongoing, the Contractor must include measures to reduce the risk of COVID-19 spread between individuals on site. Health and Safety Plan must be in conformity with all regulations and requirements outlined in section 8.0.

#### *5.1.3 Unforeseen Obstacles*

Unforeseen obstacles during excavation may include large boulders requiring alternate methods of removal, tree trunks, and significant difference in soil type compared to expected. See section 2.0 for expected soil type. When unforeseen obstacles are identified, the Contractor must immediately inform ECCC's Technical Authority via phone or email as soon as reasonably possible. In cases where unforeseen obstacles are being claimed, full documentation including photos illustrating the obstruction in a clear manner and dimensions (to a reasonable degree) as well as an outline of challenges during removal, must be provided to ECCC's Technical Authority for review and file documentation. Unless otherwise agreed upon, it remains the responsibility of the Contractor to remove the obstruction.

#### *5.1.4 Cable Installation*

The main cable and marker cable must not be dragged across the river by boat. The cable must be pulled across the river from either shore by winching or other similar methods. It is recommended that the existing cable be used to support the new cable while it is being pulled.

All excavation must be properly shored in accordance with the Canadian Labour Code and Worker's Compensation Board Guidelines.

The Contractor is required to have the proper equipment and experience to carry out cable installation. Cables must be installed in accordance to the ECCC/Technical Authority design and specifications, cable manufacturer, and cable hardware specification/guidelines. The main cable is required to be installed at the design unloaded sag and tensioned correctly and secured per ECCC standards upon construction completion. The Contractor is responsible for stretching the cable after installation. To stretch cable, the cableway must be rid no less than five times one way.

#### *5.1.5 Groundworks*

The Contractor is required to have sufficient equipment and experience to carry out the plate anchors and A-frame footings installation. Anchors must be installed at an adequate depth to achieve the correct angles and stick-out as per ECCC "River Cableway Drawings" sheet D301, D302, and D303, and it is the responsibility of the Contractor to do so. Full documentation including photographs must be provided to ECCC's Technical Authority. ECCC will conduct a field review prior to concealment to ensure adherence to requirements. Organic material, such as tree branches, bushes, etc., are not to be used as backfill.

#### *5.1.6 Property and Public Safety*

Property belonging to ECCC or a private entity on-site or related to any project must not be damaged. Any damage must be repaired by the contractor prior to demobilization, at the Contractor's expense. ECCC is responsible for notifying the Landowners, Parks, etc. The Contractor must not enter the site without approval from the Technical Authority.

The Contractor is responsible for the health and safety of the public during and outside construction hours. Lowered cables and open holes must be clearly marked. If the cable must be lowered, the contractor is responsible for ensuring the safety of any persons within the vicinity of the project, including public use trail or riverway. A flagger is to be required.

#### *5.1.7 Site Access*

Snow clearing/ access path clearing/fixing, removal of vegetation if required (based on recommendation and approval of an Environmental Consultant and/or Technical Authority), is the responsibility of the Contractor. If access requires removal of vegetation, pre-approval must be sought from ECCC Technical Authority. A Qualified Environmental Professional (QEP) may be required on-site for this work, see section 5.5 for details.

## **5.2 Work Authorization**

The Contractor must ensure that all pre-construction deliverables, including a detailed outline of all work, schedule, project sequence, shop drawings, mill-certificates, and items related to Section 4.0 are provided prior to the mobilization and commencement of work.

A construction methodology for all parts of the Work must be submitted to the ECCC Technical Authority for review prior to any work commencing. ECCC Technical Authority has five (5) business days to review and provide comments.

The Contractor must ensure it provides photos of its work at the site, before, during, and after construction activities. This includes photos of all major installations and changes on the construction site. Extra measures must be taken for installation of the cables/fist grips and steel plate anchors to meet the adequate depth and angle requirements.

Receipt of disposal at an approved facility must be provided to ECCC by the Contractor. Photos of the material being disposed at an approved facility are also required. All photos must be provided to the Technical Authority within five (5) business days from completion of the Work. ECCC reserves the right to withhold payment in the case of inadequate photos or receipt.

The following documents will be maintained on-site by the Contractor, one copy of each document as follows:

- Contract Drawings, as provided by ECCC, outlined in section 11.0;
- Environmental Protection Plan, if provided by ECCC;
- Archaeological Assessment, if provided by ECCC;
- Chance Find Procedure, as created by the Contractor
- Specifications, if provided by ECCC;
- Contract Documents, as agreed upon;
- Addenda, as agreed upon;
- Reviewed Shop Drawings, as created by the Contractor and approved by the Technical Authority;
- List of Outstanding Shop Drawings, as created by the Contractor;
- Other Modifications to Contract, as agreed upon;
- Copy of Accepted Work Schedule, as created by the Contractor and approved by the Technical Authority;
- Work Plan, as created by the Contractor;
- Health and Safety Plan, as created by the Contractor, and;
- Other documents as required.



The Contractor must adhere to recommendations included in the Environmental Protection Plan (EPP) and Archaeological Assessment (AA) provided by ECCC. Cases of Contractor's or its Subcontractor(s) non-compliance to the EPP or AA observed by ECCC will follow the procedures outlined in section 8.0.

The Contractor must ensure the site is left at the same grade and ground layout as it was found. No piles of soil are to be left, any leftover fill must be scattered uniformly through the site. All excess materials, waste, and tools must be removed from the site during demobilization. Surface sources of water flowing through or towards ECCC infrastructure are to be rerouted downstream of infrastructure by Contractor, as deemed reasonable by ECCC and the Contractor.

Delivery of the project on schedule, budget, and safely is the responsibility of the Contractor. ECCC is not obliged to provide guidance or suggestions beyond those outlined in section 12.0. It is the responsibility of the Contractor to ensure that the construction meets the standards and dimensions specified by ECCC. The Contractor should not rely on ECCC to provide construction methodology.

### **5.3 Project Related Materials**

The Contractor is responsible for the transportation of the required materials and components to the project site. It is the Contractor's decision to determine the most efficient and cost-effective method of transporting the equipment and materials to either side of the cableway. Any transportation methods are the responsibility of the Contractor. Written confirmation is to be provided to ECCC Technical Authority for any material that is collected from ECCC.

The Contractor is responsible for the removal and disposal of old material from the project site. Existing/used cable hardware must be marked and is not to be re-used. Receipt of disposal at an approved facility must be provided to ECCC by the contractor.

Any unused material must be returned within one (1) month from the completion of the project to the ECCC Richmond, B.C. or other sub-office, including Vernon, unless otherwise directed by ECCC Technical Authority. Address will be provided upon contract award.

### **5.4 Recommended Specialized Tools/Equipment**

ECCC recommends the following tools/equipment:

- Cable Grips, large (up to – 1.1”) for the main cable – two or more units;
- Cable Grips, small (up to – 7/8”) for marker and tieback cables – two or more units;
- Torque Wrench, 3 ft handle (225 ft-lbs) for the main cable's fist grips;
- Torque Wrench, small (45 ft-lbs and 65 ft-lbs) for marker and tieback cables' fist grips;
- Chain Hoist 1.5 – 3.0 Ton – two or more units;
- Portable Winch (min 8000lbs);
- Shackles, ropes, straps, come-along, etc.

### **5.5 Environmental Considerations**

The Contractor must submit a request to the ECCC Technical Authority for any work including removal of vegetation or snow or any actions affecting the environment. ECCC will consult with a Qualified Environmental Professional (QEP) to determine requirements and limitations for work. ECCC Technical Authority will provide approval to proceed or request to re-evaluate approach. The Contractor must not proceed with the action prior to approval. Approval may include any amount of limitations determined by QEP.

All cleared vegetation shall be cut and evenly distributed in small brush piles within/at the edge of existing vegetation outside riparian zones. No large brush piles that could pose a potential fire risk shall be created. Any medium to large diameter vegetation removal will be monitored by QEP. Re-planting of vegetation will not be required.

Limitations may include but are not limited to, restriction of the area where vegetation can be cleared, size/amount of vegetation that can be cleared, or requirement for QEP to be on-site. Specifically, a QEP may be required on-site for certain cases of vegetation clearing or crossing an excavator over the river. Requirement for QEP on-site will be determined by the QEP prior to action. ECCC will arrange for the QEP to be on-site, but it is the responsibility of the Contractor to ensure a QEP is present for any action requiring QEP on-site.

Cases of non-compliance observed by ECCC will follow the procedures outlined in section 9.0.

## **6.0 Acceptance of Work**

ECCC reserves the right to withhold payment in the case of all incomplete tasks.

### **6.1 Pre-Construction**

The Contractor must ensure that all pre-construction deliverables are completed. This includes:

- Work Plan Methodology;
- Schedule;
- Health and Safety Plan;
- Chance Find Procedure;
- Pick-up of materials;
- Shop drawings, as applicable;
- Mill-certificates, as applicable.

Documents are to be provided prior to the mobilization and commencement of work. Details of construction methodology to be per section 5.1.1. ECCC Technical Authority has **5 business days** to review and provide comments.

### **6.2 Construction**

The Contractor must ensure that all deliverables related to the construction are completed. The Contractor must:

- Provide the ECCC Technical Authority with a written receipt of materials collected from ECCC;
- Provide all services outlined in Section 4.0.

### **6.3 Post-Construction**

Upon completion, the Contractor must ensure that all post-construction deliverables are submitted to the Technical Authority. This includes:

- Photos of before, during, and after construction;
  - See section 5.2 for photo requirements;
- Receipt of disposal;
- Return of unused materials.

## **7.0 Damages, Lost Materials, and Defective Work**

Property belonging to ECCC, the Crown, or a private entity on-site or related to the project must not be damaged. Any damage must be repaired by the contractor prior to demobilization at the Contractor's expense.

Any material that is lost or damaged by the Contractor must be reported to ECCC Technical Authority as soon as reasonably possible and replaced at the Contractor's expense. Extra material is to be returned to ECCC at the completion of the project as per section 5.3.

Any Work rejected by ECCC as a result of poor workmanship, use of defective products or damage caused by negligent or deliberate acts or omissions of the Contractor or of its Subcontractors is to be replaced by the Contractor at the Contractor's expense.

## **8.0 Safe Work Procedures**

The Contractor must remain in compliance with the Canada Labour Code, National Joint Council Occupational Health and Safety Directive, and WorkSafeBC Guidelines. The Contractor must provide ECCC Technical Authority with details for each construction task compiled into a Health and Safety Plan.

The Contractor is expected to follow safe work procedures, including proper Personal Protective Equipment (PPE) use at all times. A Personal Flotation Device must be worn if there is a risk of drowning. A complete Basic First Aid Kit must be carried and on-site. Protection against wildlife is included within PPE.

The Contractor is responsible for circulation of the Health and Safety Plan to all individuals on-site and ensuring that all individuals are in adherence to the Health and Safety Plan. Cases of non-compliance observed by ECCC will follow the procedures outlined in section 9.0.

All guidelines and regulations provided by the Government of Canada, the Province of BC, WorkSafeBC, and the British Columbia Construction Association relating to the COVID-19 pandemic must be practiced throughout all construction activities.

## **9.0 Notifications of Non-Compliance**

The following procedures will be followed in the case that non-compliance is observed by ECCC.

1. The Technical Authority will notify Contractor in writing of observed non-compliance related to Health and Safety, Environment, Private Property, or any other regulations and requirements.
2. After receipt of such notice, the Contractor shall inform the Technical Authority of proposed corrective action within one (1) day to obtain the approval from the ECCC Technical Authority. Technical Authority will provide review and approval in one (1) day.
3. Once approval has been provided by the ECCC Technical Authority, the Contractor may proceed with the proposed actions.
4. If warranted, the ECCC Technical Authority will issue a Stop Work Order until satisfactory corrective action has been taken by the Contractor.
5. Suspensions will be lifted once the corrective action(s) have been proposed and taken by the Contractor, with the approval of the Technical Authority.
6. No time extensions will be granted or equitable adjustments will be given to the Contractor for such suspensions.
7. In the case where there is immediate danger to the health and safety of a worker or integrity of infrastructure, the Contractor may take immediate actions.

## 10.0 Schedule

ECCC estimates that completion of the project will require seven (7) days on-site. Unless otherwise agreed upon, the project is to be completed over seven (7) days between **June 1, 2022**, and **August 1, 2022**. The final invoice must be submitted once work has been completed, no later than **March 15, 2023**.

A kick-off meeting between ECCC and the Contractor shall be scheduled within five **(5) business days** of contract award. Meeting to be arranged and led by the ECCC Technical Authority.

The Contractor must submit to ECCC Technical Authority a comprehensive schedule of the project work/task(s) prior to mobilization. The schedule must be approved by both parties.

Weekly progress meetings are to be arranged by the Contractor to provide weekly updates to ECCC. This should include reporting of ongoing project schedule.

Standard work schedules for members of ECCC are Monday to Friday 8:00 AM to 4:30 PM. 72-hour notice must be provided when an ECCC member is required outside of these hours. ECCC cannot guarantee the availability of a representative for on-site support outside of these hours.

A standard construction workday, used in the estimated project length, is considered 7.5 hours per day.

The Contractor must provide 72-hour advance notice when requesting the on-site presence of an ECCC member. See section 12.0 for a list of items requiring ECCC field review.

## 11.0 Documents

The following documents, drawings, and photos are part of this project (located in the ZIP files to be provided at contract award) and are intended to be read with this Specifications document. The following are to be maintained on site by the Contractor per section 5.2.

- (1) River Cableway Drawings – General Final
- (2) 3136 Heavy Duty A-frames
- (3) Ladder Brackets for AI Ladders
- (4) 6961 Aluminum Ladders –R1
- (5) Crosby Fist Grip Specifications
- (6) HG-228 J&J Turnbuckles Specifications
- (7) Sample Chance Find Procedure
- (8) Related Photos

## 12.0 Environment and Climate Change Canada Responsibilities

ECCC will provide the following:

- All materials required for construction;
- Acquisition of relevant permits and background information with the Province of British Columbia and the Department of Fisheries and Oceans;
  - BC Water Act Notification;
  - Archaeological Assessment;
  - Desktop Study - Environmental Assessment;
  - Working around Water Permit, as applicable;
- Providing drawings and descriptions of all components related to the work;
- Supply of Qualified Environmental Professional (QEP) services, as required;
- Will provide on-site and remote support during all phases of the project;



- Will be on-site at the beginning of construction and to conduct a final sign-off and survey upon completion;
- ECCC will provide field review of the following installations:
  - Lay-out of the steel plate anchors locations and distance from the A-frame;
  - Approval of depth, angle, and location of components installed by excavation prior to backfill;
  - Inspection of cableway at completion of construction and prior to hand-over.

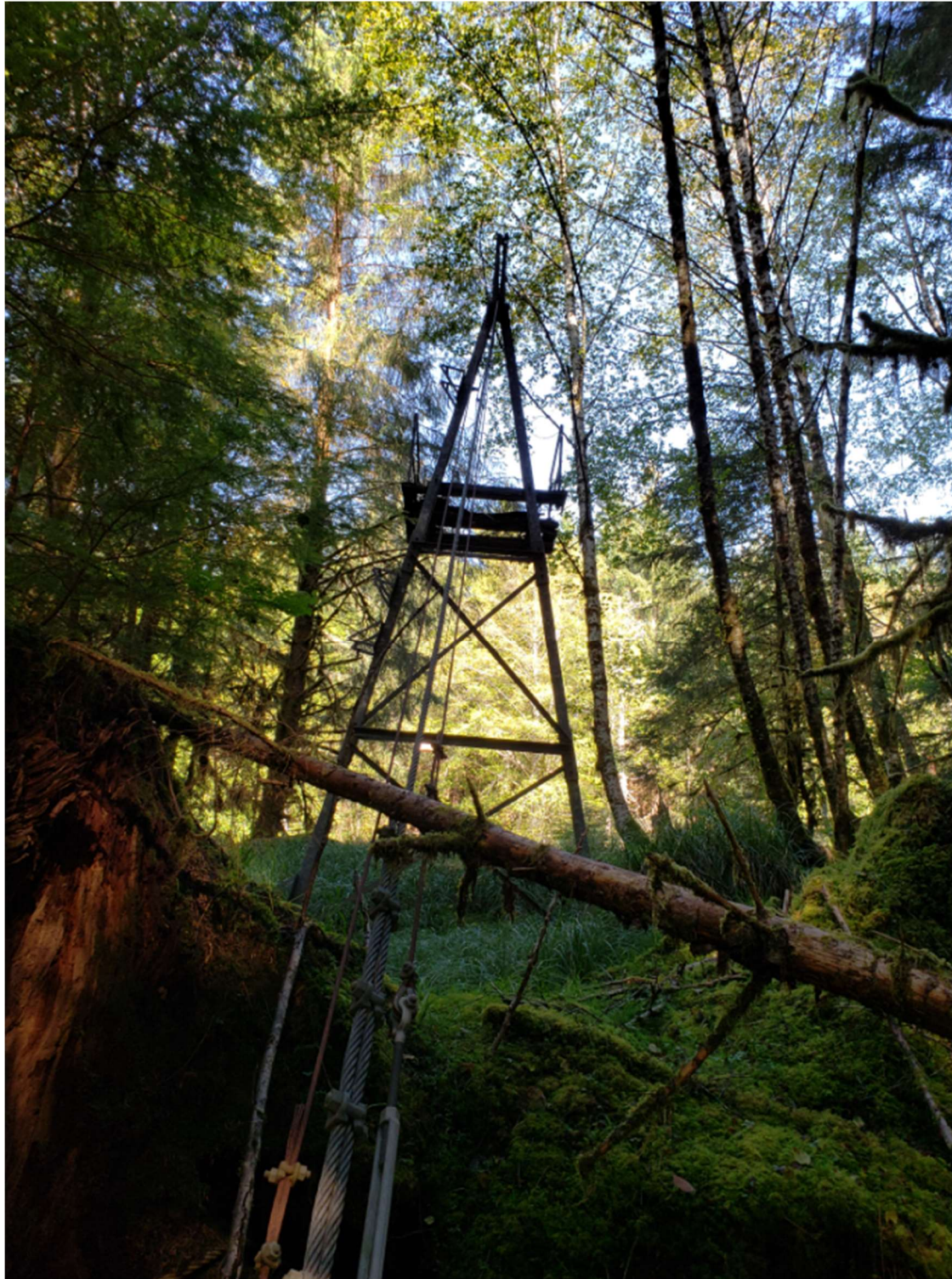
### **Attachment 1 to Annex A – Additional Photos**

1.1





1.2





1.3





1.4





1.5





1.6





1.7

