

**RETURN BIDS TO:**  
**RETOURNER LES SOUMISSIONS À:**  
Public Works and Government Services Canada  
ATB Place North Tower  
10025 Jasper Ave./10025 ave. Jaspe  
5th floor/5e étage  
Edmonton  
Alberta  
T5J 1S6  
Bid Fax: (780) 497-3510

**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  
fournisseur/de l'entrepreneur

**Issuing Office - Bureau de distribution**  
Public Works and Government Services Canada  
ATB Place North Tower  
10025 Jasper Ave./10025 ave Jasper  
5th floor/5e étage  
Edmonton  
Alberta  
T5J 1S6

<b>Title - Sujet</b> Removal and Replacement of Boundary	
<b>Solicitation No. - N° de l'invitation</b> EW038-160952/A	<b>Amendment No. - N° modif.</b> 001
<b>Client Reference No. - N° de référence du client</b> PWGSC EW038-160952	<b>Date</b> 2015-09-03
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$PWU-183-10531	
<b>File No. - N° de dossier</b> PWU-5-38142 (183)	<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 2015-09-11</b>	<b>Time Zone</b> Fuseau horaire Mountain Daylight Saving Time MDT
<b>F.O.B. - F.A.B.</b> <b>Plant-Usine:</b> <input type="checkbox"/> <b>Destination:</b> <input type="checkbox"/> <b>Other-Autre:</b> <input type="checkbox"/>	
<b>Address Enquiries to: - Adresser toutes questions à:</b> Tikhonovitch (RPC), Alex	<b>Buyer Id - Id de l'acheteur</b> pwu183
<b>Telephone No. - N° de téléphone</b> (780) 901-7940 ( )	<b>FAX No. - N° de FAX</b> (780) 497-3510
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b>	

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> Raison sociale et adresse du fournisseur/de l'entrepreneur	
<b>Telephone No. - N° de téléphone</b> <b>Facsimile No. - N° de télécopieur</b>	
<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

EW038-160952/A

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

PWGSC EW038-160952

Amd. No. - N° de la modif.

001

File No. - N° du dossier

PWU-5-38142

Buyer ID - Id de l'acheteur

pwu183

CCC No./N° CCC - FMS No/ N° VME

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**See attached the Addendum #1**

## Addendum #1

ADD: response to questions asked at the site visit. Refer to below.

ADD: images of representative site conditions. Refer to the pdf document attached.

INSERT: Replace Section 31 11 00 CLEARING AND GRUBBING - articles 3.0.2 and 3.0.3 revised. Refer to the pdf document attached.

INSERT: Replace Section 32 31 13 FENCE AND GATES- articles 2.1.3, 2.2.4, 3.1.8, 3.1.12 and 3.1.15 revised. Refer to the pdf document attached.

## Questions and answers

Question 1: What level of survey is required for Phase 1?

Answer 1: The successful Contractor is not required to complete survey for Phase 1. The fence is to be replaced along the existing fence line.

Question 2: Are there areas available close to Phase 1 to laydown materials?

Answer 2: Contractors laydown area will be provided in the oil yard (2 km from the West Gate). Small laydown areas along the fence line will be permitted providing the material does not pose a hazard to wildlife and are fenced with temporary snow fence.

Question 3: What utilities and pipelines exist in Phase 1?

Answer 3: The successful Contractor shall arrange for Alberta One-Call Locate Request and have buried utilities identified and marked prior to an excavation. Notify the appropriate company, department or persons on intention to carry out operations in the vicinity of any structure or utility, at least one week in advance of any such operations being carried out.

Question 4: 26 (twenty six) weeks is not sufficient time to complete the Phase 1 removal and replacement of boundary fencing, can this be extended?

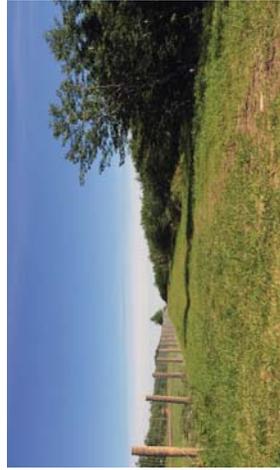
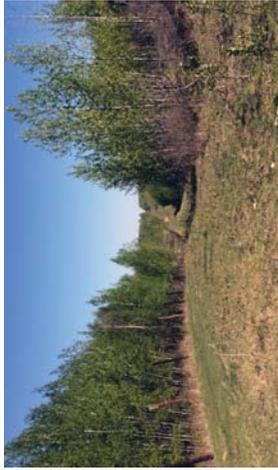
Answer 4: Construction time will be extended to 39 (thirty nine) weeks.

Question 5: How far do the existing fence posts extend below the ground?

Answer 5: The existing posts vary in length and are assumed to be an average of 1500 mm below grade. All holes resulting from the removal of the existing fence posts shall be filled with sand or granular material.

Question 6: What is the difference between a wet area and a dry area?

Answer 6: Wet areas are areas that remain saturated or muddy after the spring runoff or more than two weeks after a storm event. Sample photos of representative wet and dry areas are included with this addendum.



DRY AREAS



WET AREAS



TREES ALONG PROPERTY LINE

1.0 GENERAL

1.1 Definitions

.1 Clearing:

- .1 Clearing the areas within the limits of construction shall consist of cutting and disposing of trees, brush vegetative growth and logs above the ground surface.
- .2 Clearing limits along the existing fence line shall be within +/- 0.5 m on either side of the existing fence as indicated on the Drawings.
- .3 Clearing limits along the existing fence line at north side of West Gate and at west and east sides of the North Gate shall be 6.0 m wide on either side of the existing fence as indicated on the Drawings.

.2 Grubbing:

- .1 Grubbing shall not be required except where changes in ground contour require removal of stumps to properly grade the fence line. Grubbing shall consist of removal or close cut stumps within the clearing limits with minimum disturbance to the terrain outside the fence line.

1.2 Regulatory Requirements

- .1 Obtain necessary permits from Authorities Having Jurisdiction and adhere to Provincial, Federal and local bylaws regarding disposal of merchantable timber in the area.

1.3 Protection

- .1 Prevent damage to the fence, trees, landscape, natural features, bench marks, existing buildings, utility lines, site appurtenances, water courses and root systems of trees which are to remain. All damage incurred shall be repaired by the Contractor at their expense.
- .2 Apply tree paint approved by Departmental Representative, to cuts or scars suffered by vegetation designated to remain.

1.4 Measurement for Payment

- .1 Clearing and grubbing includes the supply of all labour, material, and equipment for clearing and grubbing all materials within the areas identified on the drawings or as required.

Work Includes:

- .1 Clearing and grubbing along the existing fence line.
- .2 Clearing and grubbing on the north side of West Gate and at west and east sides of North Gate.
- .3 Disposal of cleared and grubbed material.
- .4 All incidental work for which payment is not specified elsewhere.

.2 Measurement:

- .1 Clearing and grubbing will be measured in sq.m.
- .3 Payment:
  - .1 Payment for clearing and grubbing is unit rate per sq.m.
  - .2 No payment will be made for clearing and grubbing of temporary roads, equipment areas, or working areas as required by the Contractor for their own use.

2.0 PRODUCTS

- .1 Supply all labour, materials and equipment required for clearing and grubbing.

3.0 EXECUTION

- .1 Undertake clearing and grubbing as required to complete the work. Coordinate extent of clearing and grubbing with Departmental Representative.
- .2 All cut trees from clearing along fence line (+/- 0.5 m on either side) must be cut at, existing grade, mulched and disposed of in adjacent bush providing that they are dispersed in contact with the ground in a manner satisfactory to Departmental Representative.
- .3 Clearing along the existing fence at north side of West Gate and west and east sides of North Gate (6.0 m wide on either side) shall be executed using mechanical tree mulcher. Cut off standing trees, brush, scrub, roots, stumps and embedded logs, removing at existing grade, mulch and disperse of in adjacent existing bush and in contact with the ground in a manner satisfactory to Departmental Representative. On site burning is not permitted.
- .4 Where the Contractor fails to observe clearing and grubbing restrictions and limitations, and causes damage to property beyond areas as indicated on the Drawings or as designated by Departmental Representative, such damages shall be the Contractor's liability and shall be corrected immediately at the Contractor's expense.

END OF SECTION

1.0 GENERAL

1.1 Description

- .1 The work covered by this specification shall consist of removal, disposal and installation of wire fencing, vehicle gates and pedestrian gates and shall conform to the approved Construction Drawings, most recent CSA standards and manufacturer's directions.

1.2 Measurement for Payment

- .1 Ungulate fencing shall be measured by the lineal metre complete in place including the length across installed gates measured by the Departmental Representative in the field. Payment will be made at the unit price bid per lineal metre and shall be full compensation for work including all labour, material (wire, line, corner and brace posts, fabric fasteners, hardware, etc.), equipment necessary to complete the work, and all incidental work for which payment is not specified elsewhere.
- .2 The installation of metal gates shall be measured for payment by the unit including installation of gate posts, braces and all incidental work necessary to complete the work.
- .3 Construction of pedestrian access gates shall be measured for payment by the unit including all labour, material, and all incidental work necessary to complete the work.
- .4 The unit of measure for fence removal shall be per lineal meter. The quantity paid shall be the number of lineal meters measured in place. Payment at the Contract price bid per lineal meter shall be full compensation for removal, piling, placing and hauling/ disposal of the materials, post hole filling, and for all equipment, tools, labour, and incidentals necessary to complete the work.
- .5 Clearing fence line: the removal of trees, brush or other obstacles will be measured and paid for in accordance with Section 31 11 00 – Clearing and Grubbing.

2.0 PRODUCTS

2.1 Pressure Treated Wood Posts and Braces

- .1 Pressure treated timber and lumber shall be #1 construction grade Spruce, Western Pine or Douglas Fir dressed and conforming to CSA Standards. Knots that are sound, well spaced, smoothly trimmed and which will not impair the strength of the posts or braces will be permitted, providing they do not exceed 38 mm in diameter on any face. Posts shall be naturally round and shall have all bark peeled or otherwise removed. Allowable taper from end to end of posts shall not exceed 38 mm in diameter.
- .2 Posts and braces shall be treated by pressure methods with alkaline copper quaternary (ACQ) or a chromated copper arsenate (CCA).

- .3 Posts and braces for the wire fence shall be minimum 150 mm diameter, 4267 mm and 3375 mm length and shall be spaced every 4877 mm. Corner posts shall be 200 mm diameter and 4267 mm length as indicated on the approved Construction Drawings.

## 2.2 Woven Wire Fence

- .1 Woven wire galvanized fabric shall conform to CSA Standards.
- .2 Each roll delivered to the job site shall be legibly marked showing the length, name or mark and address of the Manufacturer.
- .3 All wire of a specified class for use on this project shall be of identical design unless otherwise specified by the Departmental Representative.
- .4 The fixed knotted joint woven wire shall be minimum 3.5 mm diameter (number 12 gauge), galvanized. The woven wire shall comprise of 20 horizontal wires, assembled with vertical stay wires 152 mm apart to a height of 2438 mm. Each roll shall be 100 m long.

## 2.3 Fasteners

- .1 Fittings and hardware: to CAN/CGSB-138.2, cast aluminum alloy, galvanized steel, or ductile cast iron, or as per manufacturer's directions.

## 2.4 Gates

- .1 Rail prefabricated metal gate shall be made of 48 mm diameter tubing (14 gauge) spaced 184 mm vertically and 4877 mm wide and has to be sufficient to match the requirements as indicated on the approved Construction Drawings.

## 2.5 Boundary Signs

- .1 Park boundary signs identify the perimeter of a national park and shall consist of the Park Canada signature, a text message and the Parks Canada identifier (combination of beaver symbol and the "Canada" wordmark). Refer to the approved Construction Drawings.
- .2 Parks Canada signature shall be standard, pre-fabricated; text message – standard, prefabricated, black colour; Parks Canada identifier – standard, pre-fabricated, black colour; border – black colour; panel background – boundary marker yellow. Signature typeface shall be Helvetica Neue 75 ©. Substitutions with any other font are not acceptable.

## 2.6 Pedestrian Gate

- .1 Pedestrian gate shall be constructed using 38 mm x 140 mm and 38 mm x 87 mm alkaline copper quaternary (ACQ) pressure treated timber.

3.0 EXECUTION

3.1 Woven Wire Fencing Installation

- .1 Fencing shall be constructed in accordance with the approved Construction Drawings by Department Representative at the locations as designated on the approved Construction Drawings.
- .2 All trees, brush, existing fence and other obstacles which interfere with the construction of the fence shall be removed prior to commencing fence construction. Remove existing fence where indicated on the drawings and clear +/- 0.5 m on either side of the existing fence for new wire fence installation.
- .3 Grubbing is not required except where short and abrupt changes in ground contour require removal of stumps to properly grade the fence line. Remove or close cut stumps within the clearing limits. Perform clearing and grading (levelling) with minimum disturbance to the terrain outside the fence line.
- .4 Opening for gates shall be provided at locations indicated on the approved Construction Drawings.
- .5 Install corner post assembly where fence alignment changes 10 degree or more.
- .6 Bracing is required at all corners, ends, and gates. End bracing is required where the fence ends on each side of a gate opening. When the fence is more than 200 m between corner posts, install braced-line post assemblies every 200 m (on straight) and 100 m (on curves) in the fence line.
- .7 Over uneven terrain, additional bracing may be required between corner, end, and brace posts.
- .8 Maximum spacing of line posts should be 4877 mm on centre. Where new post location interferes with existing or abandoned post location, adjust new post location +/- 200 mm to drive new post into undisturbed ground.
- .9 The posts shall be driven into the soil with power equipment (hand raised/ dropped weighted driver, machine driven ram with a friction, pneumatic or hydraulic drive) to the required depth of 1679 mm. Driven posts are installed small diameter end down and perpendicular to the soil surface.
- .10 Place the wire on the Elk Island National Park side of the line post. Ensure the wire is flush with the ground and there are no gaps due to terrain irregularities. Install and stretch the wire in sections running from one corner or brace post assembly to the next. Wires shall be parallel to the ground on uneven terrain.
- .11 All fence wire shall be pulled with hand stretchers, or tensioning apparatus capable of adjustment.
- .12 Use galvanized staples or the wire clips to attach wire to posts. Minimum staple size shall be 40 mm. Each horizontal wire (20 wires) to be stapled to every fence post. Staples shall be driven obliquely at a slight downward angle, allow 3 mm play for the wire to slide through the staple.
- .13 Do not tighten the fence staples or wire in order to achieve a uniform tension on the wires when strengthening the fence. At the end brace wrap free end of each line wire

around the end post and wrap on itself, do not depend only on staples to hold the fence wire tension.

- .14 Fasten wire to line posts starting at the end farthest from the stretcher.
- .15 The knotted joint woven wire shall be joined by using a wrap - splice, which is required at each horizontal wire (20 joints). Leave 150 mm of line wire beyond the end stay on each roll. Lay together the end stay wires of each of the two sections to be spliced, then wrap the free ends tightly around themselves with pliers or splicing tool. The line wire ends shall be twisted a minimum of four wraps around the corresponding wire and trimmed. The end of each wire shall be bent perpendicular to the horizontal wire.
- .16 The Departmental Representative will not be responsible for access to certain areas in wet conditions and the Contractor may need to wait until late Fall to complete fence installation. For construction in wet conditions, fence and posts shall be installed at the bottom of water body.

### 3.2. Gate Installation

- .1 Gates should be installed where indicated on the approved Construction Drawings and as per detail drawing.
- .2 Level ground between gate posts and set gate bottom approximately 300 mm above ground surface.

### 3.3 Boundary Sign

- .1 Boundary signs shall be installed every 100 m and as indicated on the approved Construction Drawings and as per the detail drawing.

### 3.4 Pedestrian Gate

- .1 Pedestrian gates shall be constructed at the location indicated on the approved Construction Drawings and as per the detail drawing.

### 3.5 Remove and Dispose of Existing Fences and Gates

- .1 Where removal and disposal of existing fences and gates is specified, the Contractor shall completely remove the fence and gate, and at their own expense, dispose of all materials at locations acceptable to the Department Representative.
- .2 Direct hydraulic uplift or lever with a small arc on the post arm shall be utilized to remove existing posts. In all cases when removing posts, safety goggles and gloves should be used. Use caution as significant forces are involved. Posts may suddenly release and move towards the operator. The Contractor will not be allowed to abandon the bottom of the post in hole if it happens to brake. Some of the existing posts have been treated with creosote and must be disposed accordingly.
- .3 All holes resulting from the removal of the existing fence posts shall be filled with sand or granular material.

### 3.6 Touch Up

- .1 Clean damaged surfaces with wire brush removing loose and cracked coatings. Apply two coats of organic zinc-rich paint to damaged areas. Pre-treat damaged surfaces according to manufacturers' instructions for zinc-rich paint.

3.7 Cleaning

- .1 Clean and trim areas disturbed by operations. Dispose of surplus material as reviewed by Departmental Representative.

END OF SECTION