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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
fournisseur/de l'entrepreneur

Issuing Office - Bureau de distribution
Public Works and Government Services Canada - Pacific
Region
800 Burrard Street, Room 219
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V6Z 0B9

Title - Sujet ATP Integration Facility	
Solicitation No. - N° de l'invitation EZ899-192962/A	Amendment No. - N° modif. 010
Client Reference No. - N° de référence du client	Date 2019-05-27
GETS Reference No. - N° de référence de SEAG PW-\$PWY-022-8592	
File No. - N° de dossier PWY-8-41284 (022)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2019-05-31	Time Zone Fuseau horaire Pacific Daylight Saving Time PDT
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input checked="" type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Lam (PWY), Tian	Buyer Id - Id de l'acheteur pwy022
Telephone No. - N° de téléphone (604) 363-7968 ()	FAX No. - N° de FAX (604) 775-6633
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: NRC - Herzberg Astronomy & Astrophysics ATP Integration Facility - Victoria, BC	

Instructions: See Herein

Instructions: Voir aux présentes

Delivery Required - Livraison exigée	Delivery Offered - Livraison proposée
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

Solicitation No. - N° de l'invitation
EZ899-192962/A

Amd. No. - N° de la modif.
010

Buyer ID - Id de l'acheteur
pwy028

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

File No. - N° du dossier CCC No./N°

CCC - FMS No./N° VME

Les documents français seront disponibles sur demande.

The Solicitation Amendment 010 is raised to issue Addendum 007.

Please see Addendum 007 herein.

Les autres conditions ne changent pas.

THE FOLLOWING ADDENDUM SUPERCEDES INFORMATION CONTAINED IN DRAWINGS AND SPECIFICATIONS ISSUED FOR THE PROJECT TO THE EXTENT REFERENCED. THIS ADDENDUM FORMS PART OF THE TENDER DOCUMENTS AND IS SUBJECT TO ALL OF THE CONDITIONS SET OUT IN THE CONTRACT CONDITIONS.

1. SPECIFICATION

1. Add Section 32 31 13 Chain Link Fence (4pages).

2. DRAWING

1. Refer to attached drawing detail 3/A07 under steel package drawing SA-07 (1page).

3. MECHANICAL ADDENDUM

1. Refer mechanical addendum dated May 27, 2019 (3pages).

4. QUESTIONS AND ANSWERS

Q1. Please see below from my sprinkler sub. Can you ask the consultant team to provide the code report referenced? We need this for pricing. Also please confirm perimeter drain work is by mechanical and not civil.

A1. There is no code report. The Service Building is an office occupancy (Group D) with subsidiary storage (Group F2). Sprinkler system to be designed according to NFPA 13. Perimeter drainage work is by mechanical, not civil.

Q2. I can't seem to locate the specifications for the chain link fence compound. Other than the "1700mm high chain link fence, typical" on the drawing. The measurements are on the drawing too but no post sizes / weight, etc. I can submit based on typical commercial weight vs Schd40 weight but clarification would be preferred. Also, if there is bottom wire vs bottom rail. Please confirm only locations AHU#3 and inside Site Services building.

A2. Refer chainlink fence specification in this addendum.

Q3. Is there high voltage? 01 91 13 1.3.2 references HV.

A3. There is no High Voltage in this project.

Q4. Please confirm that there has to be a third party agent.

A4. Commissioning Agent needs to be a third party agent.

Q5. In sec 01 91 31 it reads to me that we only need to provide a mech Cx agent. Is Cx required for all aspects?

A5. Commissioning Authority for all disciplines will be provided by Owner. Mechanical Commissioning Agent is to be included part of contract. Commissioning and verification of different aspects will be provided by individual Trades according to the individual specification requirement.

Q6. I have the following question regarding Amendment #9. The answer for question #11 mentions that the site services building is to get a new footing. There is no mention of this work in the project documents, also there is no structural info regarding the existing footing for the building and the new footing that is to take its place. Please clarify that installing a new footing for the site services building is to be covered in this contract, and if so, please provide the following information:

- The structural drawings and the as-builts for the site services building
- Structural details for the new footing to be install

A6. There is no new footing for the site services building.

Q7. Addendum #9 indicates that new footings are required for the existing service building. Please confirm if this is correct. The question is if new perimeter drains are required. Please confirm if new perimeter drains are required.

A7. Footing drain is deleted from the scope of contract. Refer to Mechanical Addendum as attached.

END OF ADDENDUM NO. 7

1.0 GENERAL

1.1 DOCUMENTS

- .1 This section of the specification forms part of the Contract Documents and is to be read, interpreted and coordinated with all other parts.

1.2 SECTION INCLUDES

- .1 Furnish all labour, materials, equipment and service necessary for the complete installation of fencing as indicated on the drawings and as hereinafter specified.
- .2 The work of this section shall include the supply and installation of the following:
 - .1 Wire wall steel fencing, posts and gates.
 - .2 Concrete footings for fencing line posts and terminal posts.

1.3 SUBMITTALS

- .1 Provide shop drawings of fencing a minimum of one week prior to installation to the Consultant for approval- Drawings shall show the general arrangement with proper details of all components necessary to complete installation.
- .2 Provide samples of proposed galvanized steel chain link fence components for approval prior to installation.
- .3 Provide data sheet and full color sample of PVC slat for selection.

1.4 PRODUCT DELIVERY, STORAGE AND HANDLING

- .1 Store packaged material in original containers with manufacturer's seals and labels intact.
- .2 Prevent damage to materials during handling and storage. Keep materials under cover and free from dampness.

2.0 PRODUCTS

2.1 MATERIALS

- .1 All pipe, tie wires, tension wires and bands, connectors, fittings, throw-bolts and hardware shall be hot-dipped galvanized.
- .2 Pipe: to CAN2-138.2 MBO, Table 1 Medium Duty. Schedule 40 (wall thicknesses as shown below), standard continuous weld, modulus of elasticity 30,000.

Pipe Dia.	Sched. 40Wall Thickness
1-5/8"	0.140" (9/64")
1-7/8"	0.145" (19/128")
2-3/8"	0.154" (5/32")
2-7/8"	0.203" (13/64")
3-1/2"	0.226" (7/32")
4-1/2"	0.237" (15/64")

- .3 Tension Bar: 16 x 5mm (5/8" x 3/16"), length to match entire height of fencing.
- .4 Tie Wire: 3.55mm. (9 gauge) galvanized.
- .5 Bottom Tension Wire (where applicable) 4.88mm (6ga.) fixed to fencing by hog rings.
- .6 Woven fabric: to CAN2-138.1.M80. See 2.1.8. for gauge and mesh size. Top and bottom selvages to have knuckled finish. Wire diameters shall be as follows for the specified wire gauges:

CHAIN LINK FENCE

PAGE 2

<u>Specified Gauge</u>	<u>Min. Core Wire Diameter</u>
------------------------	--------------------------------

6ga.:	3.60mm (0.142")
9ga.:	2.64mm (0.104")
11ga.:	1.98mm (0.078")

.7 Concrete Footings: compressive strength 18 MPa at 28 days.

.8 Table One: Component Size and Description for each Location. Note: pipe sizes shown are outside diameter.

<u>Component</u>	<u>Fences</u>
Bottom Rail	41mm (1-5/8")
Mid Rail	41mm (1-5/8")
Top Rail	41mm (1-5/8")
Line Posts	60mm (2-3/8")
End Posts	89mm (3-1/2")
Gate Posts	89mm (3-1/2")
Mid Brace	41mm (1-5/8")
Chain Link	50 mm (2")
Fabric	9 ga galvanized mesh.
	Tie Wire, Hog Rings 300mm. (12") o.c. at all tension bands and frame members

.9 Touch-up paint: Zinc rich organic ready-mixed coating to CGSB-1-GP-18M.

.10 Gate Hardware: Bullet hinges and lock pad as per manufacturer's standard.

.11 Fabric fastening mechanism in accordance with wire wall manufacturer's recommendation.

.12 PVC Slat

.1 Approximately 25mm x 6mm thick lock-top slats, non-winged PVC. Slats slide in vertically between existing chain link diamonds.

.2 Include horizontal locking strip installed through a cut slot in each vertical slot and hold vertical slats firmly in place.

3.0 EXECUTION

3.1 POST SPACING

.1 Maximum post spacing 2.1 metres on centre. Set end posts of straight runs and adjust on centre spacing of line posts equally between.

3.2 FOOTINGS

.1 All footings shall be set relative to finished surfaces as detailed.

.2 Minimum footing dimensions, except where detailed otherwise: footing depth 1200 mm, footing diameter 150mm larger than outside post diameter, post depth 75mm from bottom of footing.

.3 All posts shall be installed in footings for each section of fence before welding in the rails for that section.

3.3 FENCE CONSTRUCTION

.1 All fences shall be all welded construction. Weld all ends continuously to adjoining member. Grind all welds smooth.

.1 Cope all posts to accept top rail

.2 Cope all mid braces and bottom rails to fit posts

.3 Cut angle iron to fit backstop posts

CHAIN LINK FENCE

PAGE 3

.2 Cope all Connections. NO crimping or flattening will be permitted. Any connection not meeting this specification will be rejected and replaced with specified construction at the contractors expense.

.3 Mid braces shall be installed at all end sections and all sections adjacent to gates and comers, for all fences. All fences 2.4m high or higher shall have horizontal mid rails installed continuous in all sections.

3.4 TACK WELDING

.1 Tack weld ALL 6 gauge galv. wire mesh in lieu of tie wires as described in item Table One above. Spacing for tack welds shall match specified tie wire spacing and as detailed.

3.5 TENSION BANDS

.1 Install tension bands where fabric terminates at all terminal, comer and gate posts.

3.6 FINISH

.1 Clean all welds and other breaks in the galvanized surface. Touch up with zinc rich paint. All link fence and posts to be galvanized finish.

3.7 CLEANUP

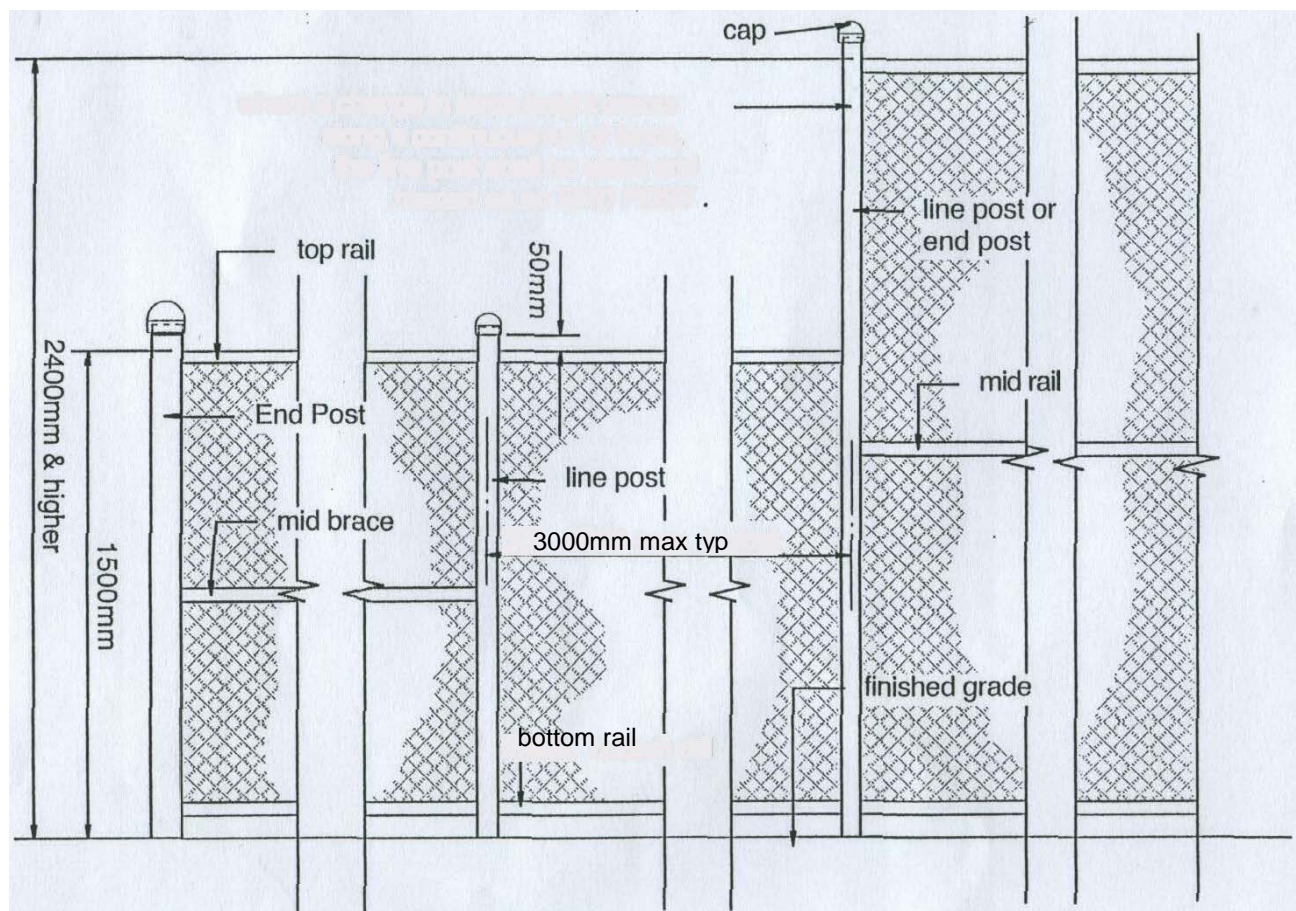
.1 Clean up all excess and waste material and remove from the site.

CHAIN LINK FENCE

FENCE CONSTRUCTION

Definition of Terms

- see tables in this section for sizes and gauges of components
- mid braces shall occur for a minimum one full panel, each side of a corner or bend
- where a change in fence height occurs along a continuous run of fence, the line post shall be sized and treated as an end post
- top rails, bottom rails and mid rails shall be continuous between line posts
- install a continuous mid rail on all fences equal to or greater than 2400mm high
- Post to be a maximum 2.1m spacing to suit maximum width of wire wall. Diagram below is only generic.



END OF SECTION 32 31 13



The following addendum supersedes information contained in drawings and specifications issued for the project to the extent referenced. This Addendum forms part of the Tender Documents and is subject to all of the conditions set out in the contract conditions.

1. DRAWINGS – MECHANICAL

1.1 Drawing No.: SM07& WM07

.1 Delete:

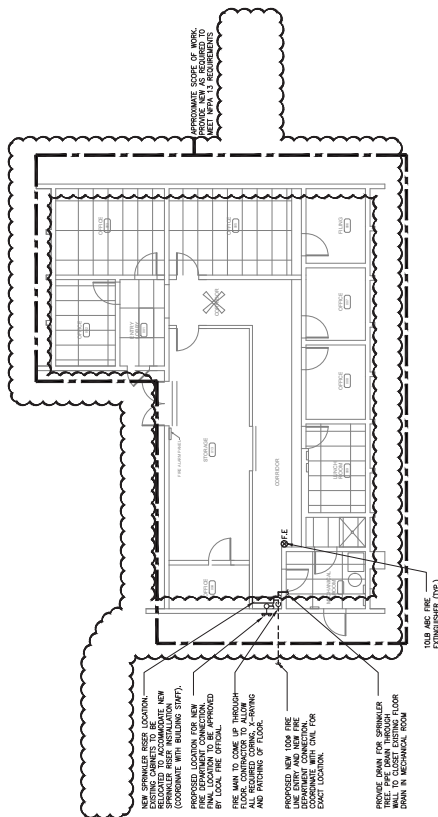
- .1 Delete 150mm Ø footing drain from site services building scope of work. See attached sketches for details

END OF MECHANICAL ADDENDUM NO. 2



FIRE PROTECTION NOTES:

1. FIRE SUPPRESSION SYSTEM INFORMATION. SHOWN ON THE CONTRACT DOCUMENTS, THE SYSTEM IS A COMMERCIAL RISK REDUCING SYSTEM. THE SYSTEM IS A TYPE OF RISK REDUCING SYSTEM THAT IS USED IN A SPECIFIC AREA OF SMALL BUILDING AND IS NOT REQUIRED IN ACCORDANCE WITH NFPA-13 REQUIREMENTS.
2. THE DESIGN BOARD CONTRACTOR SHALL OBTAIN A PROFESSIONAL ENGINEER IN THE PROVINCE OF ONTARIO, WITH A MINIMUM OF 10 YEARS OF EXPERIENCE IN COMPLIANCE WITH ALL CODES AND STANDARDS. THE PROFESSIONAL ENGINEER SHALL BE A REGISTERED PROFESSIONAL OF RECORD FOR THE ENTIRE DURATION OF THE PROJECT (PART 5 OF THE CRITERIA OF ASSURANCE).
3. THE MAINLINE COLE BOARD FORMER AN INTEGRAL PART OF THE CONTRACTOR'S SCOPE OF WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DETAILS IN PARTICULAR TO THE AREA OF WORK. SPRINKLER HEADS ARE TO BE COORDINATED WITH LIGHTING.
4. THE CONTRACTOR SHALL ADVISE THE OWNER AND THE DESIGN BOARD OF ANY DEFICIENCIES AND DEFECTS REQUIRED TO MEET THE STANDARDS EXPOSED AS SPECIFIED IN THE PAVING SPECIFICATIONS.
5. LOCATION OF FIRE EXTINGUISHERS TO BE PRIOR TO INSTALLATION.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE QUALITY WORK IN REMEDIATION CATEGORISED TO BE DIRECTED BY THE AUTHORITIES HAVING JURISDICTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE OTHER CONTRACTS, INCLUDING PLUMBING, ELECTRICAL, CEILING, AND FLOORING (FLOORING SHALL BE IN PLACE).



1 SITE SERVICES BUILDING FIRE PROTECTION PLAN

Category	Item	Score	Comments
Mathematics	1. Addition and Subtraction	85%	Good understanding of basic operations.
	2. Multiplication and Division	78%	Needs more practice with long division.
	3. Fractions and Decimals	92%	Excellent grasp of fraction concepts.
	4. Geometry and Measurement	88%	Strong knowledge of shapes and units.
Science	1. Life Science (Plants and Animals)	80%	Good knowledge of basic biology.
	2. Earth Science (Weather and Climate)	75%	Needs to review weather patterns.
	3. Space and Planets	90%	Excellent knowledge of the solar system.
	4. Environmental Science	82%	Good understanding of ecosystems.
Language Arts	1. Reading Comprehension	88%	Strong ability to understand text.
	2. Writing Skills (Grammar and Punctuation)	79%	Needs improvement in sentence structure.
	3. Vocabulary and Spelling	91%	Excellent word knowledge.
	4. Creative Writing	85%	Good imagination and storytelling skills.

Client/client

Project Site/Type du projet
5071 WEST SAANICH ROAD
VICTORIA, BC, CANADA

**NRC HERZBERG
ASTRONOMY AND ASTROPHYSICS
ATP INTEGRATION FACILITY**

Confidential - Significant Only

Designed by/Concept par

Drawn by/Dessiné par
J. M.

EWINGSC Project Manager/Adm

Regional Manager, Archdiocese of
Columbus, Ohio

Drawing title/live du dessin

SITE SERVICES BUILDING FIRE PROTECTION PLAN

Revision no. no. Revision	3
Sheet/ Feuille	WM07 OF 11
Project No./No. du projet	R.077596.001