

RETURN BIDS TO:
RETOURNER LES SOUMISSIONS À:
Travaux publics et Services gouvernementaux
Canada
Place Bonaventure, portail Sud-Est
800, rue de La Gauchetière Ouest
7^e étage
Montréal
Québec
H5A 1L6
FAX pour soumissions: (514) 496-3822

INVITATION TO TENDER
APPEL D'OFFRES

**Tender To: Public Works and Government Services
Canada**

We hereby offer to sell to Her Majesty the Queen in right of Canada, in accordance with the terms and conditions set out herein, referred to herein or attached hereto, the goods, services, and construction listed herein and on any attached sheets at the price(s) set out therefor.

**Soumission aux: Travaux Publics et Services
Gouvernementaux Canada**

Nous offrons par la présente de vendre à Sa Majesté la Reine du chef du Canada, aux conditions énoncées ou incluses par référence dans la présente et aux annexes ci-jointes, les biens, services et construction énumérés ici et sur toute feuille ci-annexée, au(x) prix indiqué(s).

Comments - Commentaires

Vendor/Firm Name and Address
**Raison sociale et adresse du
fournisseur/de l'entrepreneur**

Issuing Office - Bureau de distribution
Travaux publics et Services gouvernementaux Canada
Place Bonaventure, portail Sud-Est
800, rue de La Gauchetière Ouest
7^e étage
Montréal
Québec
H5A 1L6

Title - Sujet Crane Refit	
Solicitation No. - N° de l'invitation 9F030-120045/B	Date 2012-09-21
Client Reference No. - N° de référence du client 9F030-120045	GETS Ref. No. - N° de réf. de SEAG PW-\$MTC-025-12152
File No. - N° de dossier MTC-2-35082 (025)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2012-10-23	
Time Zone Fuseau horaire Heure Avancée de l'Est HAE	
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: Couture, Danielle	Buyer Id - Id de l'acheteur mtc025
Telephone No. - N° de téléphone (514) 496-3863 ()	FAX No. - N° de FAX (514) 496-3822
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: AGENCE SPATIALE CANADIENNE DAVID FLORIDA LABORATORY 3701, AVE CARLING C.P.11490, SUCC H OTTAWA ONTARIO K2H 8S2 Canada	

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

Item Article	Description	Dest. Code Dest.	Inv. Code Fact.	Qty Qté	U. of I. U. de D.	Unit Price/Prix unitaire FOB/FAM	Destination	Plant/Usine	Delivery Req. Livraison Req.	Del. Offered Liv. offerte
1	Crane Refit	9F030	9F030	1	EA	\$	XXXXXXXXXXXX			

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Buyer ID - Id de l'acheteur

mtc025

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This bid solicitation cancels and supersedes previous bid solicitation number 9F030-120045/A dated 2012-07-31 with a closing of 2012-09-17 at 02:00 DST

INVITATION TO TENDER

IMPORTANT NOTICE TO BIDDERS

IMPORTANT CHANGES HAVE BEEN BROUGHT, refer to the Special Instructions to Bidders SI01 paragraphs 3 also Appendice 1 for requirements related to the Code of Conduct for Procurement.

CLAUSES REFERRED TO BY NUMBER (I.E. R2890D) CAN BE FOUND AT THE FOLLOWING WEB SITE

<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual/5/R>

LIMITATION OF LIABILITY

PWGSC is limiting the Contractor's first party liability for work in Low Rise, High Rise and Heritage Buildings. See changes to GC1.6 "Indemnification by the Contractor" of R2810D in the Supplementary Conditions.

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GENERAL INSTRUCTIONS TO BIDDERS (GI) - R2710T (2012-07-16)

The following GI's are included by reference and are available at the following Web Site

<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual/5/R>

GI01	Code of Conduct and Certification - Bid
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APPENDIX 1 - COMPLETE LIST OF EACH INDIVIDUAL WHO ARE CURRENTLY DIRECTORS OF THE BIDDER

SPECIAL INSTRUCTIONS TO BIDDERS (SI)

SI01 BID DOCUMENTS

1. The following are the bid documents:

- a. Invitation to Tender - Page 1;
- b. Special Instructions to Bidders;
- c. General Instructions to Bidders R2710T (2012-07-16); As amended by paragraph 3 below.
- d. Clauses & Conditions identified in "Contract Documents";
- e. Drawings and Specifications;
- f. Bid and Acceptance Form and related Appendice(s); and
- g. Any amendment issued prior to solicitation closing.

Submission of a bid constitutes acknowledgement that the Bidder has read and agrees to be bound by these documents.

2. General Instructions to Bidders is incorporated by reference and is set out in the Standard Acquisition Clauses and Conditions (SACC) Manual, issued by Public Works and Government Services Canada (PWGSC). The SACC Manual is available on the PWGSC Web site:

<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>

3. Code of Conduct Certifications - Certifications Required Precedent to Contract Award

a. The text under Subsection 4 of GI01 - Code of Conduct and Certifications - Bid of R2710T referenced above is replaced by:

4. Bidders should provide, with their bid or promptly thereafter, a complete list of names of all individuals who are currently directors of the Bidder. If such a list has not been received by the time the evaluation of bids is completed, Canada will inform the Bidder of a time frame within which to provide the information. Failure to provide such a list within the required time frame will render the bid non-responsive. Bidders must always submit the list of directors before contract award.

Canada may, at any time, request that a Bidder provide properly completed and Signed Consent Forms (Consent to a Criminal Record Verification form - PWGSC-TPSGC 229) for any or all individuals named in the aforementioned list within a specified delay. Failure to provide such Consent Forms within the delay will result in the bid being declared non-responsive.

b. The text under Subsection 5 of GI01 - Code of Conduct and Certifications - Bid of R2710T referenced above is replaced by:

5. The Bidder must diligently maintain the list up-to-date by informing Canada in writing of any change occurring during the validity period of the bid, and must also provide Canada, when requested, with the corresponding Consent Forms. The Bidder will also be required to diligently maintain the list and when requested, provide Consent Forms during the period of any contract arising from this bid solicitation.

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SI02 ENQUIRIES DURING THE SOLICITATION PERIOD

1. Enquiries regarding this bid must be submitted in writing to the Contracting Officer named on the Invitation to Tender - Page 1 as early as possible within the solicitation period. Except for the approval of alternative materials as described in G116 of R2710T "General Instructions to Bidders", enquiries should be received no later than five (5) calendar days prior to the date set for solicitation closing to allow sufficient time to provide a response. Enquiries received after that time may not result in an answer being provided.
2. To ensure consistency and quality of the information provided to Bidders, the Contracting Officer shall examine the content of the enquiry and shall decide whether or not to issue an amendment.
3. All enquiries and other communications related to this bid sent throughout the solicitation period are to be directed ONLY to the Contracting Officer named on the Invitation to Tender - Page 1. Failure to comply with this requirement may result in the bid being declared non-responsive.

SI03 OPTIONAL SITE VISIT

There will be an optional site visit on October 2nd, 2012 at 10:00 a.m. Interested bidders are to meet at the Canadian Space Agency's - David Florida Laboratory, 3701 Carling Avenue, Ottawa, Ontario. The person responsible for the site visit is Mr. Magdi Farid.

SI04 REVISION OF BID

A bid may be revised by letter or facsimile in accordance with G111 of R2710T "General Instructions to Bidders". The facsimile number for receipt of revisions is (514) 496-3822.

SI05 BID RESULTS

- 1) A public bid opening will be held in the office designated on the Front Page "Invitation to Tender" for the receipt of bids shortly after the time set for solicitation closing.
- 2) Following solicitation closing, bid results may be obtained by calling the bid receiving office at Telephone No. (514) 496-3388.

SI06 INSUFFICIENT FUNDING

In the event that the lowest compliant bid exceeds the amount of funding allocated for the Work, Canada in its sole discretion may

- a) cancel the solicitation; or
- b) obtain additional funding and award the Contract to the Bidder submitting the lowest compliant bid; and/or
- c) negotiate a reduction in the bid price and/or scope of work of not more than 15% with the Bidder submitting the lowest compliant bid. Should an agreement satisfactory to Canada not be reached, Canada shall exercise option (a) or (b).

SI07 BID VALIDITY PERIOD

1. Canada reserves the right to seek an extension to the bid validity period prescribed in BA04 of the Bid and Acceptance Form. Upon notification in writing from Canada, Bidders shall have the option to either accept or reject the proposed extension.
2. If the extension referred to in paragraph 1. of SI07 is accepted, in writing, by all those who submitted bids, then Canada shall continue immediately with the evaluation of the bids and its approvals processes.
3. If the extension referred to in paragraph 1. of SI07 is not accepted in writing by all those who submitted bids then Canada shall, at its sole discretion, either
 - a. continue to evaluate the bids of those who have accepted the proposed extension and seek the necessary approvals; or
 - b. cancel the invitation to tender.
4. The provisions expressed herein do not in any manner limit Canada's rights in law or under GI12 of R2710T "General Instructions to Bidders ".

SI08 CONSTRUCTION DOCUMENTS

The successful contractor will be provided with one paper copy of the sealed and signed drawings, the specifications and the amendments upon acceptance of the offer. Additional copies, up to a maximum of five (5), will be provided free of charge upon request by the contractor. Obtaining more copies shall be the responsibility of the contractor including costs.

SI09 TRANSMISSION OF THE BID BY FACSIMILE OR EMAIL

Bids transmitted by facsimile or email are not accepted.

SI10 WEB SITES

The connection to some of the Web sites in the solicitation documents is established by the use of hyperlinks. The following is a list of the addresses of the Web sites:

Treasury Board Appendix L, Acceptable Bonding Companies
<http://www.tbs-sct.gc.ca/pol/doc-eng.aspx?id=14494§ion=text#appL>

Contracts Canada (Buy and Sell) <https://www.achatsetventes-buyandsell.gc.ca/eng/welcome>

Canadian economic sanctions <http://www.international.gc.ca/sanctions/index.aspx?lang=eng>

Contractor Performance Evaluation Report (Form PWGSC-TPSGC 2913)
<http://www.tpsgc-pwgsc.gc.ca/app-acq/forms/documents/2913.pdf>

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Bid Bond (form PWGSC-TPSGC 504) <http://www.tpsgc-pwgsc.gc.ca/app-acq/forms/documents/504.pdf>

Performance Bond (form PWGSC-TPSGC 505)

<http://www.tpsgc-pwgsc.gc.ca/app-acq/forms/documents/505.pdf>

Labour and Material Payment Bond (form PWGWSC-TPSGC 506)

<http://www.tpsgc-pwgsc.gc.ca/app-acq/forms/documents/506.pdf>

Certificate of Insurance (form PWGSC-TPSGC 357)

<http://www.tpsgc-pwgsc.gc.ca/app-acq/forms/documents/357.pdf>

SACC Manual

<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>

Schedules of Wage Rates for Federal Construction Contracts

http://www.rhdcc-hrsdc.gc.ca/eng/labour/employment_standards/contracts/schedule/index.shtml

PWGSC, Industrial Security Services <Http://ssi-iss.tpsgc-pwgsc.gc.ca/index-eng.html>

PWGSC, Code of Conduct and Certifications

<Http://www.tpsgc-pwgsc.gc.ca/app-acq/cndt-cndct/index-eng.html>

SUPPLEMENTARY CONDITIONS (SC)

SC01 LIMITATION OF LIABILITY

GC1.6 of R2810D is deleted and replaced with the following:

GC1.6 Indemnification by the Contractor

- 1) The Contractor shall indemnify and save Canada harmless from and against all claims, demands, losses, costs, damages, actions, suits, or proceedings whether in respect to losses suffered by Canada or in respect of claims by any third party, brought or prosecuted and in any manner based upon, arising out of, related to, occasioned by, or attributable to the activities of the Contractor in performing the Work, provided such claims are caused by the negligent or deliberate acts or omissions of the Contractor, or those for whom it is responsible at law.
- 2) The Contractor's obligation to indemnify Canada for losses related to first party liability shall be limited to:
 - a) In respect to each loss for which insurance is to be provided pursuant to GC10.1 "Insurance Contracts" of R2900D, the Commercial General Liability insurance limit for one occurrence as referred to in the "Insurance Terms" of R2910D.
 - b) In respect to losses for which insurance is not required to be provided in accordance with GC10.1 "Insurance Contracts" of R2900D, the greater of the Contract Amount or \$5,000,000, but in no event shall the sum be greater than \$20,000,000.

The limitation of this obligation shall be exclusive of interest and all legal costs and shall not apply to any infringement of intellectual property rights or any breach of warranty obligations.

- 3) The Contractor's obligation to indemnify Canada for losses related to third party liability shall have no limitation and shall include the complete costs of defending any legal action by a third party. If requested by Canada, the Contractor shall defend Canada against any third party claims.
- 4) The Contractor shall pay all royalties and patent fees required for the performance of the Contract and, at the Contractor's expense, shall defend all claims, actions or proceedings against Canada charging or claiming that the Work or any part thereof provided or furnished by the Contractor to Canada infringes any patent, industrial design, copyright trademark, trade secret or other proprietary right enforceable in Canada.
- 5) Notice in writing of a claim shall be given within a reasonable time after the facts, upon which such claim is based, became known.

CONTRACT DOCUMENTS (CD)

1. The following are the contract documents:
 - a. Contract Page when signed by Canada;
 - b. Duly completed Bid and Acceptance Form and any Appendices attached thereto;
 - c. Drawings and Specifications;
 - d. General Conditions and clauses

GC1 General Provisions	R2810D	(2012-07-16);
<u>As amended</u> <u>by paragraph 5 below.</u>		
GC2 Administration of the Contract	R2820D	(2012-07-16);
GC3 Execution and Control of the Work	R2830D	(2010-01-11);
GC4 Protective Measures	R2840D	(2008-05-12);
GC5 Terms of Payment	R2850D	(2010-01-11);
GC6 Delays and Changes in the Work	R2860D	(2012-07-16);
GC7 Default, Suspension or Termination of Contract	R2870D	(2008-05-12);
GC8 Dispute Resolution	R2880D	(2012-07-16);
GC9 Contract Security	R2890D	(2012-07-16);
GC10 Insurance	R2900D	(2008-05-12);
Supplementary Conditions		
Insurance Terms	R2910D	(2008-12-12);
Fair Wages and Hours of Labour - Labour Conditions	R2940D	(2012-07-16);
Allowable Costs for Contract Changes Under GC6.4.1	R2950D	(2007-05-25);
 - e. Any amendment issued or any allowable bid revision received before the date and time set for solicitation closing;
 - f. Any amendment incorporated by mutual agreement between Canada and the Contractor before acceptance of the bid; and
 - g. Any amendment or variation of the contract documents that is made in accordance with the General Conditions.
2. The documents identified by title, number and date above are incorporated by reference and are set out in the Standard Acquisition Clauses and Conditions (SACC) Manual, issued by Public Works and Government Services Canada (PWGSC). The SACC Manual is available on the PWGSC Web site:
<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>
3. Schedules of Wage Rates for Federal Construction Contracts is included by reference and may be accessed from the Web site:
http://www.rhdcc-hrsdc.gc.ca/eng/labour/employment_standards/contracts/schedule/index.shtml.
4. The language of the contract documents is the language of the Bid and Acceptance Form submitted.
5. General Condition GC1, General Provisions (R2810D) add subsection GC1.20 "Code of Conduct and Certifications - Contract" as follows.

GC1.20 Code of Conduct and Certifications - Contract

-
1. The Contractor agrees to comply with the Code of Conduct for Procurement and to be bound by its terms. In addition to complying with the Code of Conduct for Procurement, the Contractor must also comply with the terms set out in this section.
 2. The Contractor further understands that, to ensure fairness, openness and transparency in the procurement process, the commission of certain acts or offences may result in a termination for default under the Contract. If the Contractor made a false declaration in its bid, makes a false declaration under the Contract, fails to diligently maintain up to date the information herein requested, or if the Contractor or any of the Contractor's parent companies, subsidiaries and affiliates fail to remain free and clear of any acts or convictions specified herein during the period of the Contract, such false declaration or failure to comply may result in a termination for default under the Contract. Canada may verify the information provided by the Contractor, including the information relating to the acts or convictions specified herein, through independent research, use of any government resources or by contacting third parties. The Contractor understands that a termination for default will not restrict Canada's right to exercise any other remedies that may be available against the Contractor and agrees to immediately return any advance payments.
 3. For the purpose of this section, business concerns, organizations and individuals are Contractor's affiliates if:
 - a. directly or indirectly either one controls or has the power to control the other, or
 - b. a third party has the power to control both.

Indicia of control, include, but are not limited to, interlocking management or ownership, identity of interests among family members, shared facilities and equipment, common use of employees, or a business entity created following the acts or convictions specified in this section which has the same or similar management, ownership, or principal employees, as the case may be.
 4. During the entire period of the Contract, the Contractor must diligently update, by written notice to the Contracting Authority, the list of names of all individuals who are directors of the Contractor whenever there is a change. As well, whenever requested by Canada, the Contractor must provide the corresponding Consent Forms.
 5. The Contractor certifies being aware, and that its parent companies, subsidiaries and affiliates are aware, that Canada may verify the information provided by the Contractor, including the information relating to the acts or convictions specified herein through independent research, use of any government resources or by contacting third parties.
 6. The Contractor certifies that neither the Contractor nor any of the Contractor's parent companies, subsidiaries or affiliates have directly or indirectly, paid or agreed to pay, and will not, directly or indirectly, pay a contingency fee to any individual for the solicitation, negotiation or obtaining of the Contract if the payment of the fee would require the individual to file a return under section 5 of the *Lobbying Act*.
 7. The Contractor certifies that except for those offences where a criminal pardon or a record suspension has been obtained, capacities restored by the Governor in Council, or leniency granted as further described in subsection 8 herein, neither the Contractor nor any of

the Contractor's parent companies, subsidiaries or affiliates has ever been convicted of an offence under any of the following provisions:

- a. section 45 (*Conspiracies, agreements or arrangements between competitors*), section 46 (*Foreign directives*), section 47 (*Bid rigging*), section 49 (*Agreements or arrangements of federal financial institutions*), section 52 (*False or misleading representation*), section 53 (*Deceptive notice of winning a prize*) under the Competition Act, or
- b. section 121 (*Frauds on the government and Contractor subscribing to election fund*), section 124 (*Selling or Purchasing Office*), section 380 (*Fraud*) for fraud committed against Her Majesty or section 418 (*Selling defective stores to Her Majesty*), section 462.31 (*Laundering proceeds of crime*) or sections 467.11 to 467.13 (*Participation in activities of criminal organization*) of the Criminal Code of Canada, or
- c. paragraph 80(1)(d) (*False entry, certificate or return*), subsection 80(2) (*Fraud against Her Majesty*) or section 154.01 (*Fraud against Her Majesty*) of the Financial Administration Act, or
- d. section 239 (*False or deceptive statements*) of the Income Tax Act, or
- e. section 327 (*False or deceptive statements*) of the Excise Tax Act, or
- f. section 3 (*Bribing a foreign public official*) of the Corruption of Foreign Public Officials Act, or
- g. section 5 (*Trafficking in substance*), section 6 (*Importing and exporting*), or section 7 (*Production of substance*) of the Controlled Drugs and Substance Act.

8. In circumstances where a criminal pardon or a record suspension has been obtained, capacities restored by the Governor in Council, or leniency granted pursuant to a formal program (similar to the Competition Bureau's Leniency Program) for offences other than sections 121, 124, 380 for fraud committed against Her Majesty and 418 of the Criminal Code of Canada or offences under the Financial Administration Act, the Contractor must provide a certified copy of confirming documentation from an official source.

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BID AND ACCEPTANCE FORM (BA)

BA01 IDENTIFICATION

As described in the specifications and the Addendum no. 1, demolish, remove and replace an existing 15 Ton Industrial overhead bridge crane with a new 25 Ton micro-movement overhead bridge crane at the Canadian Space Agency's David Florida Laboratory, 3701 Carling Avenue, Ottawa, Ontario.

BA02 BUSINESS NAME AND ADDRESS OF BIDDER

Name: _____

Address: _____

Telephone: _____ Fax: _____ PBN: _____

BA03 THE OFFER

The Bidder offers to Canada to perform and complete the Work for the above named project in accordance with the Bid Documents for the Total Bid Amount of

\$ _____ excluding GST/HST.
(amount in numbers)

BA04 BID VALIDITY PERIOD

The bid shall not be withdrawn for a period of **30 days** following the date of solicitation closing.

BA05 ACCEPTANCE AND CONTRACT

Upon acceptance of the Contractor's offer by Canada, a binding Contract shall be formed between Canada and the Contractor. The documents forming the Contract shall be the contract documents identified in Contract Documents (CD).

BA06 CONSTRUCTION TIME

The Contractor shall perform and complete the Work **between August 1st, 2013 and September 30, 2013** from the date of notification of acceptance of the offer.

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BA07 BID SECURITY

The Bidder is enclosing bid security with its bid in accordance with GI09 - Bid Security Requirements of R2710T - General Instructions to Bidders.

BA08 SIGNATURE

Name and title of person authorized to sign on behalf of Bidder (Type or print)

Signature

Date

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APPENDIX 1 - COMPLETE LIST OF EACH INDIVIDUAL WHO ARE CURRENTLY DIRECTORS OF THE BIDDER

NOTE TO BIDDERS

WRITE DIRECTOR'S SURNAMES AND GIVEN NAMES IN BLOCK LETTERS

SURNAME

NAME

TITLE

_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____



Addendum No. 1

Project: Bay 3 Crane Replacement - CSA12-G2

Section 01 00 10 – General Instructions:

1. Modify Sentence 1.7.4 to “Demolition and removal off site of the existing 15 Ton overhead bridge crane. **Manufacturer - Provincial Crane, Year of Construction: 1985, 20HP Hoist (approx. weight: 350 kg, speed: 0.006/0.1 meters per second), two (2) ½ HP Bridge (approx. weight: 240 kg, speed: 0.02/0.1 meters per second), and two (2) ½ HP Trolley (approx. weight: 240 kg, speed: 0.02/0.1 meters per second).**”
2. **Refer to attached crane as-built to help estimate weight of existing crane.**

Section 01 32 16 – Construction Progress Schedule Bar (GANTT) Chart

1. Delete “ – **January 3, 2013**” from Sentence 1.2.1.5.
2. Delete “ – **March 14, 2013**” from Sentence 1.2.1.6.

Section 01 74 21 – Construction Demolition Waste Management and Disposal

1. Delete the following Sentences: 1.4.12, 1.4.13, 1.4.14, 1.5.1.1 and 1.5.1.3, 1.
2. Delete the following Paragraphs: 1.6, 1.7, 1.9, 1.10, 1.12, 3.4, 3.6, 3.7 and 3.8.
3. Modify Sentence 1.5.1.4 to “**Schedule B completed for project.**”

Section 41 22 13 – Bridge Cranes

In sentence 3.5.3.2.1.1 modify the following “Record speed measurements and compare recorded values with design specifications ~~or manufacturer’s recommended values.~~” Remainder of the sentence remains unmodified.

Add the following sentences:

1. 3.5.3.4 “**Provide written, signed reports following each test listed below.**”
2. 3.5.3.5 “**Factory Testing:**”
3. 3.5.3.5.1 “**Test operation of motors (i.e. operating speeds, direction), upper and lower hoist limits, brakes, power cutoff switch, set and calibrate initial set points on VFD drives etc.**”
4. 3.5.3.5.2 “**Check all crane components (including but not limited to rope, drum, wire rope, hook, load blocks and sheaves etc.) for proper assembly, alignment and tolerances.**”
5. 3.5.3.5.3 “**Check operation of pendant push button station.**”
6. 3.5.3.5.4 “**Check operation of frequency modulated remote control system.**”
7. 3.5.3.6 “**Site testing:**”

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8. 3.5.3.6.1 **“After installation of each part of the system and completion of electrical hook-up, perform tests to confirm correct installation and functioning of equipment.”**
 9. 3.5.3.7 **“Pre Start-up testing to include but not limited to:”**
 10. 3.5.3.7.1 **“Visually inspect all wiring connections, welds, crane wheels etc.”**
 11. 3.5.3.7.2 **“Proper lubrication, balancing, levelling, alignment of crane on rails etc.”**
 12. 3.5.3.8 **“Start-up testing to include but not limited to:”**
 13. 3.5.3.8.1 **“With all electric power off, check each circuit with an Ohm meter to ground observing no continuity.”**
 14. 3.5.3.8.2 **“Verify correct voltage, phase and cycles.”**
 15. 3.5.3.8.3 **“Check motor for smooth operation.”**
 16. 3.5.3.8.4 **“Check current draw on each leg of each motor.”**
 17. 3.5.3.8.5 **“Verify proper operation of VFD drives.”**
 18. 3.5.3.8.6 **“Verify proper operation of pendant push button station, including retraction of operator to a 3m height.”**
 19. 3.5.3.8.7 **“Verify proper operation of frequency modulated remote control system.”**
 20. 3.5.3.8.8 **“etc.”**
 21. 3.5.3.9 **“Final Commissioning:”**
 22. 3.5.3.9.1 **“Provide test weights to be used for commissioning with the following capacities of rated loads: 20%, 40%, 60% 80%, 100% and 125% of rated load. Weights are to be left onsite for use by Departmental Representative for two (2) week test period.”**
 23. 3.5.3.9.2 **“For each of the following capacities no load, 20%, 40%, 60% 80%, 100% and 125% of rated load perform the following:”**
 24. 3.5.3.9.2.1 **“Operational, Overload, Deflection and Brake Tests.”**
 25. 3.5.3.9.2.2 **“Calibrate and adjust control points on VFD drives.”**
 26. 3.5.3.9.2.3 **“All safety tests including, upper and lower trip settings, VFD reset upon loss of power, loss of signal from frequency modulated remote control system.”**

END OF ADDENDUM