

**RETURN BIDS TO:**

## RETOURNER LES SOUMISSIONS À:

**Bid Receiving Public Works and Government  
Services Canada/Réception des soumissions  
Travaux publics et Services gouvernementaux  
Canada**

**1713 Bedford Row**

**Halifax, N.S./Halifax, (N.É.)**

**B3J 1T3**

## Nova Scotia

**Bid Fax: (902) 496-5016**

## Request For a Standing Offer Demande d'offre à commandes

### Regional Individual Standing Offer (RISO)

### Offre à commandes individuelle régionale (OCIR)

Canada, as represented by the Minister of Public Works and Government Services Canada, hereby requests a Standing Offer on behalf of the Identified Users herein.

Le Canada, représenté par le ministre des Travaux Publics et Services Gouvernementaux Canada, autorise par la présente, une offre à commandes au nom des utilisateurs identifiés énumérés ci-après.

## Comments - Commentaires

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

**Issuing Office - Bureau de distribution**

Atlantic Region Acquisitions/Région de l'Atlantique  
Acquisitions  
1713 Bedford Row  
Halifax, N.S./Halifax, (N.É.)  
B3J 3C9  
Nova Scot

<b>Title - Sujet</b> Repairs-Water Distribution Systems	
<b>Solicitation No. - N° de l'invitation</b> W010C-170029/A	<b>Date</b> 2017-09-29
<b>Client Reference No. - N° de référence du client</b> W010C-17-0029	<b>GETS Ref. No. - N° de réf. de SEAG</b> PW-\$HAL-219-10207
<b>File No. - N° de dossier</b> HAL-7-79062 (219)	<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 2017-10-17</b>	<b>Time Zone</b> <b>Fuseau horaire</b> Atlantic Daylight Saving Time ADT
<b>Delivery Required - Livraison exigée</b> See Herein	
<b>Address Enquiries to: - Adresser toutes questions à:</b> Richard, Linda K.	<b>Buyer Id - Id de l'acheteur</b> hal219
<b>Telephone No. - N° de téléphone</b> (902)496-5261 ( )	<b>FAX No. - N° de FAX</b> (902)496-5016
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b> DEPARTMENT OF NATIONAL DEFENCE SEE HEREIN HALIFAX NOVA SCOTIA B3K5X5 Canada	
<b>Security - Sécurité</b> This request for a Standing Offer does not include provisions for security. Cette Demande d'offre à commandes ne comprend pas des dispositions en matière de sécurité.	

**Instructions: See Herein**

**Instructions: Voir aux présentes**

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

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## **PART 1 - GENERAL INFORMATION**

### **1.1 Introduction**

The Request for Standing Offers (RFSO) is divided into seven parts plus attachments and annexes, as follows:

- |        |   |
|--------|---|
| Part 1 | General Information: provides a general description of the requirement;   |
| Part 2 | Offeror Instructions: provides the instructions applicable to the clauses and conditions of the RFSO;   |
| Part 3 | Offer Preparation Instructions: provides offerors with instructions on how to prepare their offer to address the evaluation criteria specified;   |
| Part 4 | Evaluation Procedures and Basis of Selection: indicates how the evaluation will be conducted, the evaluation criteria which must be addressed in the offer, and the basis of selection;   |
| Part 5 | Certifications and Additional Information: includes the certifications and additional information to be provided;   |
| Part 6 | Security, Financial and Insurance Requirements: includes specific requirements that must be addressed by offerors; and  |
| Part 7 | 7A, Standing Offer, and 7B, Resulting Contract Clauses:<br><br>7A, includes the Standing Offer containing the offer from the Offeror and the applicable clauses and conditions;<br><br>7B, includes the clauses and conditions which will apply to any contract resulting from a call-up made pursuant to the Standing Offer. |

The Annexes include the Requirement, the Basis of Payment, the Electronic Payment Instruments, the Federal Contractors Program for Employment Equity - Certification and any other annexes

### **1.2 Summary**

- 1.2.1 Work under this Standing Offer comprises the furnishing of all labour, material, tools, and equipment required to perform emergency and normal repairs to the water distribution systems, sanitary and storm sewer systems installation and repairs to French drainage systems, culverts, manholes, foundation draining systems, etc., including the excavation and backfilling at various locations of CFB Halifax.

The Standing Offer is from December 1, 2017 to November 30, 2018, with two option periods of one-year duration.

- 1.2.2 The requirement is subject to the provisions of the Canadian Free Trade Agreement (CFTA).
- 1.2.3 The requirement is subject to a preference for Canadian goods and/or services.

### 1.3 Security Requirements

There are security requirements associated with the requirement of the Standing Offer. For additional information, see Part 6 - Security, Financial and Insurance Requirements, and Part 7 - Standing Offer and Resulting Contract Clauses. For more information on personnel and organization security screening or security clauses, offerors should refer to the [Contract Security Program](http://www.tpsgc-pwgsc.gc.ca/esc-src/introduction-eng.html) of Public Works and Government Services Canada (<http://www.tpsgc-pwgsc.gc.ca/esc-src/introduction-eng.html>) website.

### 1.4 Debriefings

Offerors may request a debriefing on the results of the request for standing offers process. Offerors should make the request to the Standing Offer Authority within 15 working days of receipt of the results of the request for standing offers process. The debriefing may be in writing, by telephone or in person.

## PART 2 - OFFEROR INSTRUCTIONS

### 2.1 Standard Instructions, Clauses and Conditions

All instructions, clauses and conditions identified in the Request for Standing Offers (RFSO) by number, date and title are set out in the [Standard Acquisition Clauses and Conditions Manual](https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual) (<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>) issued by Public Works and Government Services Canada.

Offerors who submit an offer agree to be bound by the instructions, clauses and conditions of the RFSO and accept the clauses and conditions of the Standing Offer and resulting contract(s).

The [2006](#) (2017-04-27) Standard Instructions - Request for Standing Offers - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the RFSO.

### 2.2 Submission of Offers

Offers must be submitted only to Public Works and Government Services Canada (PWGSC) Bid Receiving Unit by the date, time and place indicated on page 1 of the Request for Standing Offers.

### 2.3 Enquiries - Request for Standing Offers

All enquiries must be submitted in writing to the Standing Offer Authority no later than five (5) calendar days before the Request for Standing Offers (RFSO) closing date. Enquiries received after that time may not be answered.

Offerors should reference as accurately as possible the numbered item of the RFSO to which the enquiry relates. Care should be taken by offerors to explain each question in sufficient detail in order to enable Canada to provide an accurate answer. Technical enquiries that are of a proprietary nature must be clearly marked "proprietary" at each relevant item. Items identified as "proprietary" will be treated as such except where Canada determines that the enquiry is not of a proprietary nature. Canada may edit the question(s) or may request that offerors do so, so that the proprietary nature of the question(s) is eliminated, and the enquiry can be answered to all offerors. Enquiries not submitted in a form that can be distributed to all offerors may not be answered by Canada.

## 2.4 Applicable Laws

The Standing Offer and any contract resulting from the Standing Offer must be interpreted and governed, and the relations between the parties determined, by the laws in force in Nova Scotia.

Offerors may, at their discretion, substitute the applicable laws of a Canadian province or territory of their choice without affecting the validity of their offer, by deleting the name of the Canadian province or territory specified and inserting the name of the Canadian province or territory of their choice. If no change is made, it acknowledges that the applicable laws specified are acceptable to the offerors.

## PART 3 - OFFER PREPARATION INSTRUCTIONS

### 3.1 Offer Preparation Instructions

Canada requests that offerors provide their offer in separately bound sections as follows:

Section I: Technical Offer (2 hard copies)

Section II: Financial Offer (1 hard copy)

Section III: Certifications (1 hard copy)

Prices must appear in the financial offer only. No prices must be indicated in any other section of the offer.

Canada requests that offerors follow the format instructions described below in the preparation of their offer.

- (a) use 8.5 x 11 inch (216 mm x 279 mm) paper;
- (b) use a numbering system that corresponds to that of the Request for Standing Offers.

In April 2006, Canada issued a policy directing federal departments and agencies to take the necessary steps to incorporate environmental considerations into the procurement process [Policy on Green Procurement](http://www.tpsgc-pwgsc.gc.ca/ecologisation-greening/achats-procurement/politique-policy-eng.html) (<http://www.tpsgc-pwgsc.gc.ca/ecologisation-greening/achats-procurement/politique-policy-eng.html>). To assist Canada in reaching its objectives, offerors should:

- 1) use 8.5 x 11 inch (216 mm x 279 mm) paper containing fibre certified as originating from a sustainably-managed forest and containing minimum 30% recycled content; and
- 2) use an environmentally-preferable format including black and white printing instead of colour printing, printing double sided/duplex, using staples or clips instead of cerlox, duotangs or binders.

#### Section I: Technical Offer

In their technical offer, offerors should explain and demonstrate how they propose to meet the requirements and how they will carry out the Work.

#### Section II: Financial Offer

Offerors must submit their financial offer in accordance with Annex B, Basis of Payment.

### 3.1.1 Electronic Payment of Invoices - Offer

If you are willing to accept payment of invoices by Electronic Payment Instruments, complete Annex "D" Electronic Payment Instruments, to identify which ones are accepted.

If Annex "D" Electronic Payment Instruments is not completed, it will be considered as if Electronic Payment Instruments are not being accepted for payment of invoices.

Acceptance of Electronic Payment Instruments will not be considered as an evaluation criterion.

### Section III:

**Certifications** Offerors must submit the certifications and additional information required under Part 5.

## PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

### 4.1 Evaluation Procedures

- (a) Offers will be assessed in accordance with the entire requirement of the Request for Standing Offers including the technical and financial evaluation criteria.
- (b) An evaluation team composed of representatives of Canada will evaluate the offers.
- (c) The evaluation team will determine first if there are two or more offers with a valid Canadian Content certification. In that event, the evaluation process will be limited to the offers with the certification; otherwise, all offers will be evaluated. If some of the offers with a valid certification are declared non-responsive, or are withdrawn, and less than two responsive offers with a valid certification remain, the evaluation will continue among those offers with a valid certification. If all offers with a valid certification are subsequently declared non-responsive, or are withdrawn, then all the other offers received will be evaluated.

#### 4.1.1 Technical Evaluation

##### 4.1.1.1 Mandatory Technical Criteria

A bid must meet all of the mandatory requirements stated below to be considered compliant. Bids not meeting all of the mandatory requirements below will be deemed non-responsive and be given no further consideration.

MANDATORY requirement at solicitation closing date:

1. Experience: Offerors must possess a minimum of 5 years related experience in the repairs to water distribution systems, sanitary and storm sewer systems. List three major projects/contracts in the last five (5) years that show experience with projects similar to what is contained in the statement of work.

2. References: Include 3 letters of reference from the above requested 3 major projects (one from each project). Each reference should be verifiable and include the following:
  - a. The name of the client organization
  - b. Name, title, telephone number, facsimile and e-mail of contact person.
3. The Bidder must hold a valid (as per clause 1 of the security clauses – example: Designated Organization Screening (DOS) issue by the Canadian Industrial Security Directorate (CISD), Public Works and Government Services Canada (PWGSC), at bid closing. Failure to comply with this requirement will render the bid non-compliant and no further consideration will be given to the Bid.

#### **4.1.2 Financial Evaluation**

The price of the offer will be evaluated in Canadian dollars, Applicable Taxes excluded, FOB destination, Canadian customs duties and excise taxes included.

#### **4.2 Basis of Selection**

An offer must comply with the requirements of the Request for Standing Offers and meet all mandatory technical evaluation criteria to be declared responsive. The responsive offer with the lowest evaluated price will be recommended for issuance of a standing offer.

### **PART 5 – CERTIFICATIONS AND ADDITIONAL INFORMATION**

Offerors must provide the required certifications and additional information to be issued a standing offer.

The certifications provided by offerors to Canada are subject to verification by Canada at all times. Unless specified otherwise, Canada will declare an offer non-responsive, will have the right to set-aside a standing offer, or will declare a contractor in default if any certification made by the Offeror is found to be untrue whether made knowingly or unknowingly during the offer evaluation period, during the Standing Offer period, or during the contract period.

The Standing Offer Authority will have the right to ask for additional information to verify the Offeror's certifications. Failure to comply and to cooperate with any request or requirement imposed by the Standing Offer Authority will render the offer non-responsive, result in the setting aside of the Standing Offer or constitute a default under the Contract.

#### **5.1 Certifications Required with the Offer**

Offerors must submit the following duly completed certifications as part of their offer.

##### **5.1.1 Integrity Provisions - Declaration of Convicted Offences**

In accordance with the Integrity Provisions of the Standard Instructions, all offerors must provide with their offer, **if applicable**, the declaration form available on the [Forms for the Integrity Regime](http://www.tpsgc-pwgsc.gc.ca/ci-if/declaration-eng.html) website (<http://www.tpsgc-pwgsc.gc.ca/ci-if/declaration-eng.html>), to be given further consideration in the procurement process.



## 5.2 Certifications Precedent to the Issuance of a Standing Offer and Additional Information

The certifications and additional information listed below should be submitted with the offer, but may be submitted afterwards. If any of these required certifications or additional information is not completed and submitted as requested, the Standing Offer Authority will inform the Offeror of a time frame within which to provide the information. Failure to provide the certifications or the additional information listed below within the time frame provided will render the offer non-responsive.

### 5.2.1 Integrity Provisions – Required Documentation

In accordance with the section titled Information to be provided when bidding, contracting or entering into a real procurement agreement of the [Ineligibility and Suspension Policy](http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html) (<http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html>), the Offeror must provide the required documentation, as applicable, to be given further consideration in the procurement process.

### 5.2.2 Federal Contractors Program for Employment Equity - Standing Offer Certification

By submitting an offer, the Offeror certifies that the Offeror, and any of the Offeror's members if the Offeror is a Joint Venture, is not named on the Federal Contractors Program (FCP) for employment equity "FCP Limited Eligibility to Bid" list ) available at the bottom of the page of the [Employment and Social Development Canada-Labour's](https://www.canada.ca/en/employment-social-development/programs/employment-equity/federal-contractor-program.html#s4) website (<https://www.canada.ca/en/employment-social-development/programs/employment-equity/federal-contractor-program.html#s4>).

Canada will have the right to declare an offer non-responsive, or to set-aside a Standing Offer, if the Offeror, or any member of the Offeror if the Offeror is a Joint Venture, appears on the "FCP Limited Eligibility to Bid" list at the time of issuing of a Standing Offer or during the period of the Standing Offer.

## PART 6 - SECURITY, FINANCIAL AND INSURANCE REQUIREMENTS

### 6.1 Security Requirements

1. At the Request for Standing Offers closing date, the following conditions must be met:
  - (a) the Offeror must hold a valid organization security clearance as indicated in Part 7A - Standing Offer;
  - (b) the Offeror's proposed individuals requiring access to classified or protected information, assets or sensitive work sites must meet the security requirements as indicate in Part 7A - Standing Offer;
  - (c) the Offeror must provide the name of all individuals who will require access to classified or protected information, assets or sensitive work sites;
2. For additional information on security requirements, offerors should refer to the [Contract Security Program](http://www.tpsgc-pwgsc.gc.ca/esc-src/introduction-eng.html) of Public Works and Government Services Canada (<http://www.tpsgc-pwgsc.gc.ca/esc-src/introduction-eng.html>) website.

## 6.2 Insurance Requirements

The Offeror must provide a letter from an insurance broker or an insurance company licensed to operate in Canada stating that the Offeror, if issued a standing offer as a result of the request for standing offer, can be insured in accordance with the Insurance Requirements specified in Annex E.

If the information is not provided in the offer, the Standing Offer Authority will so inform the Offeror and provide the Offeror with a time frame within which to meet the requirement. Failure to comply with the request of the Standing Offer Authority and meet the requirement within that time period will render the offer non-responsive.

## PART 7 - STANDING OFFER AND RESULTING CONTRACT CLAUSES

### A. STANDING OFFER

#### 7.1 Offer

**7.1.1** The Offeror offers to perform the Work in accordance with the Statement of Work at Annex "A".

#### 7.2 Security Requirements

**7.2.1** The following security requirements (SRCL and related clauses provided by the Contract Security Program) apply and form part of the Standing Offer.

1. The Contractor/Offeror must, at all times during the performance of the Contract/Standing Offer, hold a valid Designated Organization Screening (DOS), issued by the Canadian Industrial Security Directorate (CISD), Public Works and Government Services Canada (PWGSC).
2. The Contractor/Offeror personnel requiring access to sensitive work site(s) must EACH hold a valid RELIABILITY STATUS, granted or approved by CISD/PWGSC.
3. Subcontracts which contain security requirements are NOT to be awarded without the prior written permission of CISD/PWGSC.
4. The Contractor/Offeror must comply with the provisions of the:
  - a. Security Requirements Check List and security guide (if applicable), attached at Annex C;
  - b. Industrial Security Manual (Latest Edition).

#### 7.3 Standard Clauses and Conditions

All clauses and conditions identified in the Standing Offer and resulting contract(s) by number, date and title are set out in the [Standard Acquisition Clauses and Conditions Manual](https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual) (<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>) issued by Public Works and Government Services Canada.

### 7.3.1 General Conditions

2005 2017-06-21 General Conditions - Standing Offers - Goods or Services, apply to and form part of the Standing Offer.

### 7.3.2 Standing Offers Reporting

The Offeror must compile and maintain records on its provision of goods and services to Canada under contracts resulting from the Standing Offer. This data must include all purchases done by Canada, including those acquired and paid for by Canada acquisition cards.

The Offeror must provide this data in accordance with the reporting requirements detailed in annex F entitled "Standing Offers Usage Reporting ". If some data is not available, the reason must be indicated in the report. If no goods or services is provided during a given period, the Offeror must provide a "nil" report.

The data must be submitted on a *quarterly basis* to the Standing Offer Authority.

The quarterly reporting periods are defined as follows:

- first quarter: April 1 to June 30
- second quarter: July 1 to September 30
- third quarter: October 1 to December 31
- fourth quarter: January 1 to March 31

The data must be submitted to the Standing Offer Authority no later than 15 calendar days after the end of the reporting period.

## 7.4 Term of Standing Offer

### 7.4.1 Period of the Standing Offer

The period for making call-ups against the Standing Offer is from December 1, 2017 to November 30, 2018.

### 7.4.2 Extension of Standing Offer

If the Standing Offer is authorized for use beyond the initial period, the Offeror offers to extend its offer for an additional 2 one-year periods, under the same conditions and at the rates or prices specified in the Standing Offer, or at the rates or prices calculated in accordance with the formula specified in the Standing Offer.

The Offeror will be advised of the decision to authorize the use of the Standing Offer for an extended period by the Standing Offer Authority before the expiry date of the Standing Offer. A revision to the Standing Offer will be issued by the Standing Offer Authority.

### **7.4.3 Delivery Points**

Delivery of the requirement will be made to delivery point(s) specified at Annex "A" of the Standing Offer.

## **7.5 Authorities**

### **7.5.1 Standing Offer Authority**

The Standing Offer Authority is:

Name: Linda Richard  
Title: Supply Specialist  
Public Works and Government Services Canada  
Acquisitions Branch  
Address: 1713 Bedford Row  
Halifax, NS B3J 3C9  
  
Telephone: 902-402-9059  
Facsimile: 902-496-5261  
E-mail address: linda.k.richard@pwgsc.gc.ca

The Standing Offer Authority is responsible for the establishment of the Standing Offer, its administration and its revision, if applicable. Upon the making of a call-up, as Contracting Authority, he is responsible for any contractual issues relating to individual call-ups made against the Standing Offer by any Identified User.

### **7.5.2 Project Authority**

The Project Authority for the Standing Offer is identified in the call-up against the Standing Offer.

The Project Authority is the representative of the department or agency for whom the Work will be carried out pursuant to a call-up against the Standing Offer and is responsible for all the technical content of the Work under the resulting Contract.

### **7.5.3 Offeror's Representative**

Name:  
Title:  
Business Name:  
Procurement Business Number:  
Address:

Telephone:  
Facsimile:  
E-mail:

## 7.6 Proactive Disclosure of Contracts with Former Public Servants

By providing information on its status, with respect to being a former public servant in receipt of a [Public Service Superannuation Act](#) (PSSA) pension, the Contractor has agreed that this information will be reported on departmental websites as part of the published proactive disclosure reports, in accordance with [Contracting Policy Notice: 2012-2](#) of the Treasury Board Secretariat of Canada.

## 7.7 Identified Users

The Identified User authorized to make call-ups against the Standing Offer is: Real Property Operations Sector – Halifax (RPOS-H), CFB Halifax, Halifax, NS.

## 7.8 Call-up Instrument

The Work will be authorized or confirmed by the Identified User(s) using the duly completed forms or their equivalents as identified in paragraphs 1 and 2 below, or by using Canada acquisition cards (Visa or MasterCard) for low dollar value requirements.

1. Call-ups must be made by Identified Users' authorized representatives under the Standing Offer and must be for goods or services or combination of goods and services included in the Standing Offer at the prices and in accordance with the terms and conditions specified in the Standing Offer.
2. Any of the following forms could be used which are available through [PWGSC Forms Catalogue](#) website:
  - PWGSC-TPSGC 942 Call-up Against a Standing Offer
  - PWGSC-TPGSC 942-2 Call-up Against a Standing Offer - Multiple Delivery
  - PWGSC-TPSGC 944 Call-up Against Multiple Standing Offers (English version)
  - PWGSC-TPSGC 945 Commande subséquente à plusieurs offres à commandes (French version)

or

3. An equivalent form or electronic call-up document which contains at a minimum the following information:
  - standing offer number;
  - statement that incorporates the terms and conditions of the Standing Offer;
  - description and unit price for each line item;
  - total value of the call-up;
  - point of delivery;
  - confirmation that funds are available under section 32 of the Financial Administration Act;
  - confirmation that the user is an Identified User under the Standing Offer with authority to enter into a contract.

## 7.9 Limitation of Call-ups

Individual call-ups against the Standing Offer must not exceed \$40,000.00 (Applicable Taxes included).

## 7.10 Financial Limitation

The total cost to Canada resulting from call ups against the Standing Offer must not exceed the sum of \$700,000 (Applicable taxes excluded) unless otherwise authorized in writing by the Standing Offer Authority. The Offeror must not perform any work or services or supply any articles in response to call

ups which would cause the total cost to Canada to exceed the said sum, unless an increase is so authorized.

The Offeror must notify the Standing Offer Authority as to the adequacy of this sum when 75 percent of this amount has been committed, or before the expiry date of the Standing Offer, whichever comes first. However, if at any time, the Offeror considers that the said sum may be exceeded, the Offeror must promptly notify the Standing Offer Authority.

#### **7.11 Priority of Documents**

If there is a discrepancy between the wording of any documents that appear on the list, the wording of the document that first appears on the list has priority over the wording of any document that subsequently appears on the list.

- a) the call up against the Standing Offer, including any annexes;
- b) the articles of the Standing Offer;
- c) the general conditions 2005 (2017-06-21), General Conditions - Standing Offers - Goods or Services
- d) the general conditions 2010C (2016-04-04); General Conditions – Services (Medium Complexity)
- e) Annex A, Requirement,
- f) Annex B, Basis of Payment;
- g) Annex C, Security Requirements Check List;
- h) Annex E, Insurance Requirements;
- i) the Offeror's offer dated \_\_\_\_\_ (*insert date of offer*)

#### **7.12 Certifications and Additional Information**

##### **7.12.1 Compliance**

Unless specified otherwise, the continuous compliance with the certifications provided by the Offeror with its offer or precedent to issuance of the Standing Offer (SO), and the ongoing cooperation in providing additional information are conditions of issuance of the SO and failure to comply will constitute the Offeror in default. Certifications are subject to verification by Canada during the entire period of the SO and of any resulting contract that would continue beyond the period of the SO.

#### **7.13 Applicable Laws**

The Standing Offer and any contract resulting from the Standing Offer must be interpreted and governed, and the relations between the parties determined, by the laws in force in Nova Scotia.

### **B. RESULTING CONTRACT CLAUSES**

The following clauses and conditions apply to and form part of any contract resulting from a call-up against the Standing Offer.

#### **7.1 Requirement**

The Contractor must perform the Work described in the call-up against the Standing Offer.

## **7.2 Standard Clauses and Conditions**

### **7.2.1 General Conditions**

2010C (2016-04-04), General Conditions - Services (Medium Complexity) apply to and form part of the Contract.

Section 13 Interest on Overdue Accounts, of 2010C (2016-04-04), General Conditions – Services (Medium Complexity) will not apply to payments made by credit cards.

### **7.2.2 SACC Manual Clauses**

SACC Manual Clause M3800C (2006-08-15) Estimates

## **7.3 Term of Contract**

### **7.3.1 Period of the Contract**

Work must be completed in accordance with the call-up against the Standing Offer.

## **7.4 Proactive Disclosure of Contracts with Former Public Servants**

By providing information on its status, with respect to being a former public servant in receipt of a [Public Service Superannuation Act](#) (PSSA) pension, the Contractor has agreed that this information will be reported on departmental websites as part of the published proactive disclosure reports, in accordance with [Contracting Policy Notice: 2012-2](#) of the Treasury Board Secretariat of Canada.

## **7.5 Payment**

### **7.5.1 Basis of Payment**

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid firm unit prices *as specified in Annex B*. Customs duties are excluded and Applicable Taxes are extra.

Canada will not pay the Contractor for any design changes, modifications or interpretations of the Work, unless they have been approved, in writing, by the Contracting Authority before their incorporation into the Work.

### **7.5.2 Limitation of Price**

SACC Manual clause C6000C (2017-08-17) Limitation of Price

### **7.5.3 Single Payment**

SACC Manual clause H1000C (2008-05-12) Single Payment

#### **7.5.4 SACC Manual Clauses**

SACC *Manual* clause A9117C (2007-11-30) T1204 - Direct Request by Customer Department

#### **7.5.5 Electronic Payment of Invoices – Call-up**

The Contractor accepts to be paid using any of the following Electronic Payment Instrument(s):

- a. Visa Acquisition Card;
- b. MasterCard Acquisition Card;
- c. Direct Deposit (Domestic and International);
- d. Electronic Data Interchange (EDI);
- e. Wire Transfer (International Only);
- f. Large Value Transfer System (LVTS) (Over \$25M)

#### **7.6 Invoicing Instructions**

1. The Contractor must submit invoices in accordance with the section entitled "Invoice Submission" of the general conditions. Invoices cannot be submitted until all work identified in the invoice is completed.
2. Invoices must be distributed as follows:
  - a. The original and one (1) copy must be forwarded to the following address for certification and payment.

Accounts Payable Section  
RPOS (H)  
Maritime Forces Atlantic PO Box 99000  
Station Forces, Willow Park Bldg. WL 7  
Halifax, NS B3K 5X5

Invoices must be submitted within 30 days of completion of Work.  
Each invoice will indicate the following information:

1. Contract number;
2. Work order/ serial number;
3. Requisition/order offer number;
4. Building number or location;
5. Dates during which the Work was accomplished;
6. A detailed description of the Work performed, with itemized list of materials & labour (a copy of the Contractor's invoice from his material supplier will also be included plus any other costs being charged), labour, overhead, profit and applicable taxes will be included separately on the invoice.

Labour costs are to be broken down by trade and sub-trade. Labour time sheets will also be provided upon request.

No invoices will be processed without proper information as outlined.



DND payments to Contractor will be done through direct deposit process. The Contractor will be required to provide the following to Accounts Payable:

1. banking information for direct deposit; and
2. email address

## **7.7 Insurance – Specific Requirements**

The Contractor must comply with the insurance requirements specified in Annex \_\_\_\_\_. The Contractor must maintain the required insurance coverage for the duration of the Contract. Compliance with the insurance requirements does not release the Contractor from or reduce its liability under the Contract.

The Contractor is responsible for deciding if additional insurance coverage is necessary to fulfill its obligation under the Contract and to ensure compliance with any applicable law. Any additional insurance coverage is at the Contractor's expense, and for its own benefit and protection.

The Contractor must forward to the Contracting Authority within ten (10) days after the date of award of the Contract, a Certificate of Insurance evidencing the insurance coverage and confirming that the insurance policy complying with the requirements is in force. For Canadian-based Contractors, coverage must be placed with an Insurer licensed to carry out business in Canada, however, for Foreign-based Contractors, coverage must be placed with an Insurer with an A.M. Best Rating no less than "A-". The Contractor must, if requested by the Contracting Authority, forward to Canada a certified true copy of all applicable insurance policies.

## **7.8 SACC Manual Clauses**

D5328C (2014-06-26) Inspection and Acceptance  
C0711C (2008-05-12) Time Verification  
B1501C (2006-06-16) Electrical Equipment  
A9062C (2011-05-16) Canadian Forces Site Regulations  
A0285C (2007-05-25) Workers Compensation

Solicitation No. - N° de l'invitation  
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Client Ref. No. - N° de réf. du client  
W010C-17-0029

Amd. No. - N° de la modif.  
File No. - N° du dossier  
hal-7-79062

Buyer ID - Id de l'acheteur  
HAL219  
CCC No./N° CCC - FMS No./N° VME

## **ANNEX "A"**

### ***REQUIREMENT***

Please refer to attached Specification – Standing Offer Agreement Repairs to Water and Sewer Systems

## ANNEX "B"

### BASIS OF PAYMENT

**Regular working hours:** Monday to Friday, 0730 - 1600 hrs.

**Outside regular working hours:** Includes all day Saturday, Sunday and statutory holidays.

Estimated quantity (B) for each item of this Basis of Payment is an estimate only for evaluation purposes and does not infer all the quantities for that item will be utilized or that the quantities may not be exceeded.

<b>Table 1</b> <b>Pricing Table – Year 1</b> <b>Dec 01, 2017 to Nov 30, 2018</b>					
Column A Item	Column B Description	Column C Unit of issue	Column D Rates	Column E Est. Qty	Column F Year 1 Unit Price (D x E)
<b>A.</b>	<b>Labour rates – Regular Working Hours</b> Includes travel time to and from the work site within and outside Halifax Regional Municipality.				
.1	Technical on-site supervisor	per hour	\$ _____	300	\$ _____
.2	Tradesperson	per hour	\$ _____	300	\$ _____
.3	Labourer	per hour	\$ _____	300	\$ _____
<b>B.</b>	<b>Labour rates – Outside Regular Working Hours</b> Includes travel time to and from the work site within and outside Halifax Regional Municipality.				
.1	Technical on-site supervisor	per hour	\$ _____	75	\$ _____
.2	Tradesperson	per hour	\$ _____	75	\$ _____
.3	Labourer	per hour	\$ _____	75	\$ _____
<b>C.</b>	<b>Equipment Rates</b> Includes operator and associated operating costs.				
.1	Backhoe, JD 710K or equivalent	per hour	\$ _____	150	\$ _____
.2	Mega Vac vacuum excavation truck	per hour	\$ _____	50	\$ _____
.3	Single axle dump truck	per hour	\$ _____	100	\$ _____
.4	Dump truck, tandem axle 18-20 cu yards	per hour	\$ _____	100	\$ _____
.5	Skid loader	per hour	\$ _____	50	\$ _____
.6	Front end loader, JD 544 or	per hour	\$ _____	100	\$ _____

	equivalent				
.7	Rock breaker / backhoe, JD 490 or equivalent	per hour	\$ _____	50	\$ _____
.8	Excavator, JD 200 LC or equivalent	per hour	\$ _____	75	\$ _____
.9	Jet rod truck	per hour	\$ _____	30	\$ _____
.10	Vibrator roller BW 172 D or equivalent	per hour	\$ _____	75	\$ _____
.11	Roller, walk behind	per hour	\$ _____	50	\$ _____
.12	Plate tamper	per hour	\$ _____	50	\$ _____
.13	Cut off saw, gas powered	per hour	\$ _____	30	\$ _____
.14	Portable generator, minimum 3 kW	per hour	\$ _____	50	\$ _____
.15	Sewer video camera inspection	per hour	\$ _____	30	\$ _____
.16	Water main sounding	per hour	\$ _____	50	\$ _____
.17	Backflow prevention valve testing	per hour	\$ _____	20	\$ _____
<b>D.</b>	<b>Approved backfill – as per Section 31 23 33.01 of Annex “A” REQUIREMENT</b>				
.1	Type 1 Gravel	per tonne	\$ _____	50	\$ _____
.2	Type 2 Gravel	per tonne	\$ _____	50	\$ _____
.3	Type 3 Surge	per tonne	\$ _____	50	\$ _____
.4	Type 4 Borrow	per tonne	\$ _____	50	\$ _____
.5	Type 5 Sand	per tonne	\$ _____	20	\$ _____
.6	Type 6 Clear stone	per tonne	\$ _____	10	\$ _____
.7	Type 7 Top soil	per tonne	\$ _____	30	\$ _____
<b>Table 1 – Year 1 Proposed Total Price</b>					\$ _____
<b>Note:</b>					
.1	Allowance for materials, specialty equipment at net cost, plus a mark-up of 10%.				
.2	Miscellaneous equipment such as boom trucks, post hole drills, signalling devices, etc., not listed on the equipment list above will not be on an hourly rate. They will be rented by the Contractor and paid out as per the rental invoice provided by the Contractor plus a mark-up of 10%.				
.3	Contaminated soil and tank removal will be at the above hourly rates.				
.4	Contaminated soil disposal (including transportation manifest) at a tipping fee.				

<b>Table 2</b> <b>Pricing Table – Year 2</b> <b>Dec 01, 2018 to Nov 30, 2019</b>					
Column A Item	Column B Description	Column C Unit of issue	Column D Rates	Column E Est. Qty	Column F Year 2 Unit Price (D x E)
<b>A.</b>	<b>Labour rates – Regular Working Hours</b> Includes travel time to and from the work site within and outside Halifax Regional Municipality.				
.1	Technical on-site supervisor	per hour	\$ _____	300	\$ _____
.2	Tradesperson	per hour	\$ _____	300	\$ _____
.3	Labourer	per hour	\$ _____	300	\$ _____
<b>B.</b>	<b>Labour rates – Outside Regular Working Hours</b> Includes travel time to and from the work site within and outside Halifax Regional Municipality.				
.1	Technical on-site supervisor	per hour	\$ _____	75	\$ _____
.2	Tradesperson	per hour	\$ _____	75	\$ _____
.3	Labourer	per hour	\$ _____	75	\$ _____
<b>C.</b>	<b>Equipment Rates</b> Includes operator and associated operating costs.				
.1	Backhoe, JD 710K or equivalent	per hour	\$ _____	150	\$ _____
.2	Mega Vac vacuum excavation truck	per hour	\$ _____	50	\$ _____
.3	Single axle dump truck	per hour	\$ _____	100	\$ _____
.4	Dump truck, tandem axle 18-20 cu yards	per hour	\$ _____	100	\$ _____
.5	Skid loader	per hour	\$ _____	50	\$ _____
.6	Front end loader, JD 544 or equivalent	per hour	\$ _____	100	\$ _____
.7	Rock breaker / backhoe, JD 490 or equivalent	per hour	\$ _____	50	\$ _____
.8	Excavator, JD 200 LC or equivalent	per hour	\$ _____	75	\$ _____
.9	Jet rod truck	per hour	\$ _____	30	\$ _____
.10	Vibrator roller BW 172 D or equivalent	per hour	\$ _____	75	\$ _____
.11	Roller, walk behind	per hour	\$ _____	50	\$ _____

.12	Plate tamper	per hour	\$ _____	50	\$ _____
.13	Cut off saw, gas powered	per hour	\$ _____	30	\$ _____
.14	Portable generator, minimum 3 kW	per hour	\$ _____	50	\$ _____
.15	Sewer video camera inspection	per hour	\$ _____	30	\$ _____
.16	Water main sounding	per hour	\$ _____	50	\$ _____
.17	Backflow prevention valve testing	per hour	\$ _____	20	\$ _____
D.	<b>Approved backfill – as per Section 31 23 33.01 of Annex “A” REQUIREMENT</b>				
.1	Type 1 Gravel	per tonne	\$ _____	50	\$ _____
.2	Type 2 Gravel	per tonne	\$ _____	50	\$ _____
.3	Type 3 Surge	per tonne	\$ _____	50	\$ _____
.4	Type 4 Borrow	per tonne	\$ _____	50	\$ _____
.5	Type 5 Sand	per tonne	\$ _____	20	\$ _____
.6	Type 6 Clear stone	per tonne	\$ _____	10	\$ _____
.7	Type 7 Top soil	per tonne	\$ _____	30	\$ _____
<b>Table 2 – Year 2 Proposed Total Price</b>					\$ _____
<b>Note:</b> .1 Allowance for materials, specialty equipment at net cost, plus a mark-up of 10%. .2 Miscellaneous equipment such as boom trucks, post hole drills, signalling devices, etc., not listed on the equipment list above will not be on an hourly rate. They will be rented by the Contractor and paid out as per the rental invoice provided by the Contractor plus a mark-up of 10%. .3 Contaminated soil and tank removal will be at the above hourly rates. .4 Contaminated soil disposal (including transportation manifest) at a tipping fee.					

<b>Table 3</b> <b>Pricing Table – Option Year 1</b> <b>Dec 01, 2019 to Nov 30, 2020</b>					
Column A Item	Column B Description	Column C Unit of issue	Column D Rates	Column E Est. Qty	Column F Option Year 1 Unit Price (D x E)
A.	<b>Labour rates – Regular Working Hours</b> Includes travel time to and from the work site within and outside Halifax Regional Municipality.				
.1	Technical on-site supervisor	per hour	\$ _____	300	\$ _____

.2	Tradesperson	per hour	\$ _____	300	\$ _____
.3	Labourer	per hour	\$ _____	300	\$ _____
<b>B.</b>	<b>Labour rates – Outside Regular Working Hours</b> Includes travel time to and from the work site within and outside Halifax Regional Municipality.				
.1	Technical on-site supervisor	per hour	\$ _____	75	\$ _____
.2	Tradesperson	per hour	\$ _____	75	\$ _____
.3	Labourer	per hour	\$ _____	75	\$ _____
<b>C.</b>	<b>Equipment Rates</b> Includes operator and associated operating costs.				
.1	Backhoe, JD 710K or equivalent	per hour	\$ _____	150	\$ _____
.2	Mega Vac vacuum excavation truck	per hour	\$ _____	50	\$ _____
.3	Single axle dump truck	per hour	\$ _____	100	\$ _____
.4	Dump truck, tandem axle 18-20 cu yards	per hour	\$ _____	100	\$ _____
.5	Skid loader	per hour	\$ _____	50	\$ _____
.6	Front end loader, JD 544 or equivalent	per hour	\$ _____	100	\$ _____
.7	Rock breaker / backhoe, JD 490 or equivalent	per hour	\$ _____	50	\$ _____
.8	Excavator, JD 200 LC or equivalent	per hour	\$ _____	75	\$ _____
.9	Jet rod truck	per hour	\$ _____	30	\$ _____
.10	Vibrator roller BW 172D or equivalent	per hour	\$ _____	75	\$ _____
.11	Roller, walk behind	per hour	\$ _____	50	\$ _____
.12	Plate tamper	per hour	\$ _____	50	\$ _____
.13	Cut off saw, gas powered	per hour	\$ _____	30	\$ _____
.14	Portable generator, minimum 3 kW	per hour	\$ _____	50	\$ _____
.15	Sewer video camera inspection	per hour	\$ _____	30	\$ _____
.16	Water main sounding	per hour	\$ _____	50	\$ _____
.17	Backflow prevention valve testing	per hour	\$ _____	20	\$ _____

D.	Approved backfill – as per Section 31 23 33.01 of Annex “A” REQUIREMENT				
.1	Type 1 Gravel	per tonne	\$_____	50	\$_____
.2	Type 2 Gravel	per tonne	\$_____	50	\$_____
.3	Type 3 Surge	per tonne	\$_____	50	\$_____
.4	Type 4 Borrow	per tonne	\$_____	50	\$_____
.5	Type 5 Sand	per tonne	\$_____	20	\$_____
.6	Type 6 Clear stone	per tonne	\$_____	10	\$_____
.7	Type 7 Top soil	per tonne	\$_____	30	\$_____
Table 3 – Option Year 1 Proposed Total Price					\$_____
<b>Note:</b> .1 Allowance for materials, specialty equipment at net cost, plus a mark-up of 10%. .2 Miscellaneous equipment such as boom trucks, post hole drills, signalling devices, etc., not listed on the equipment list above will not be on an hourly rate. They will be rented by the Contractor and paid out as per the rental invoice provided by the Contractor plus a mark-up of 10%. .3 Contaminated soil and tank removal will be at the above hourly rates. .4 Contaminated soil disposal (including transportation manifest) at a tipping fee.					

<b>Table 4</b> <b>Pricing Table – Option Year 2</b> <b>Dec 01, 2020 to Nov 30, 2021</b>					
Column A Item	Column B Description	Column C Unit of issue	Column D Rates	Column E Est. Qty	Column F Option Year 2 Unit Price (D x E)
A.	<b>Labour rates – Regular Working Hours</b> Includes travel time to and from the work site within and outside Halifax Regional Municipality.				
.1	Technical on-site supervisor	per hour	\$_____	300	\$_____
.2	Tradesperson	per hour	\$_____	300	\$_____
.3	Labourer	per hour	\$_____	300	\$_____
B.	<b>Labour rates – Outside Regular Working Hours</b> Includes travel time to and from the work site within and outside Halifax Regional Municipality.				
.1	Technical on-site supervisor	per hour	\$_____	75	\$_____
.2	Tradesperson	per hour	\$_____	75	\$_____



.3	Labourer	per hour	\$ _____	75	\$ _____
<b>C.</b>	<b>Equipment Rates</b> Includes operator and associated operating costs.				
.1	Backhoe, JD 710K or equivalent	per hour	\$ _____	150	\$ _____
.2	Mega Vac vacuum excavation truck	per hour	\$ _____	50	\$ _____
.3	Single axle dump truck	per hour	\$ _____	100	\$ _____
.4	Dump truck, tandem axle 18-20 cu yards	per hour	\$ _____	100	\$ _____
.5	Skid loader	per hour	\$ _____	50	\$ _____
.6	Front end loader, JD 544 or equivalent	per hour	\$ _____	100	\$ _____
.7	Rock breaker / backhoe, JD 490 or equivalent	per hour	\$ _____	50	\$ _____
.8	Excavator, JD 200 LC or equivalent	per hour	\$ _____	75	\$ _____
.9	Jet rod truck	per hour	\$ _____	30	\$ _____
.10	Vibrator roller BW 172 D or equivalent	per hour	\$ _____	75	\$ _____
.11	Roller, walk behind	per hour	\$ _____	50	\$ _____
.12	Plate tamper	per hour	\$ _____	50	\$ _____
.13	Cut off saw, gas powered	per hour	\$ _____	30	\$ _____
.14	Portable generator, minimum 3 kW	per hour	\$ _____	50	\$ _____
.15	Sewer video camera inspection	per hour	\$ _____	30	\$ _____
.16	Water main sounding	per hour	\$ _____	50	\$ _____
.17	Backflow prevention valve testing	per hour	\$ _____	20	\$ _____
<b>D.</b>	<b>Approved backfill – as per Section 31 23 33.01 of Annex “A” REQUIREMENT</b>				
.1	Type 1 Gravel	per tonne	\$ _____	50	\$ _____
.2	Type 2 Gravel	per tonne	\$ _____	50	\$ _____
.3	Type 3 Surge	per tonne	\$ _____	50	\$ _____
.4	Type 4 Borrow	per tonne	\$ _____	50	\$ _____
.5	Type 5 Sand	per tonne	\$ _____	20	\$ _____
.6	Type 6 Clear stone	per tonne	\$ _____	10	\$ _____

.7	Type 7 Top soil	per tonne	\$_____	30	\$_____
<b>Table 4 – Option Year 2 Proposed Total Price</b>					\$_____
<b>Note:</b> .1 Allowance for materials, specialty equipment at net cost, plus a mark-up of 10%. .2 Miscellaneous equipment such as boom trucks, post hole drills, signalling devices, etc., not listed on the equipment list above will not be on an hourly rate. They will be rented by the Contractor and paid out as per the rental invoice provided by the Contractor plus a mark-up of 10%. .3 Contaminated soil and tank removal will be at the above hourly rates. .4 Contaminated soil disposal (including transportation manifest) at a tipping fee.					

<b>Table 5</b> <b>Pricing Table – Option Year 3</b> <b>Dec 01, 2021 to Nov 30, 2022</b>					
Column A Item	Column B Description	Column C Unit of issue	Column D Rates	Column E Est. Qty	Column F Option Year 3 Unit Price (D x E)
<b>A.</b>	<b>Labour rates – Regular Working Hours</b> Includes travel time to and from the work site within and outside Halifax Regional Municipality.				
.1	Technical on-site supervisor	per hour	\$_____	300	\$_____
.2	Tradesperson	per hour	\$_____	300	\$_____
.3	Labourer	per hour	\$_____	300	\$_____
<b>B.</b>	<b>Labour rates – Outside Regular Working Hours</b> Includes travel time to and from the work site within and outside Halifax Regional Municipality.				
.1	Technical on-site supervisor	per hour	\$_____	75	\$_____
.2	Tradesperson	per hour	\$_____	75	\$_____
.3	Labourer	per hour	\$_____	75	\$_____
<b>C.</b>	<b>Equipment Rates</b> Includes operator and associated operating costs.				
.1	Backhoe, JD 710K or equivalent	per hour	\$_____	150	\$_____
.2	Mega Vac vacuum excavation truck	per hour	\$_____	50	\$_____
.3	Single axle dump truck	per hour	\$_____	100	\$_____
.4	Dump truck, tandem axle 18-20 cu yards	per hour	\$_____	100	\$_____

.5	Skid loader	per hour	\$ _____	50	\$ _____
.6	Front end loader, JD 544 or equivalent	per hour	\$ _____	100	\$ _____
.7	Rock breaker / backhoe, JD 490 or equivalent	per hour	\$ _____	50	\$ _____
.8	Excavator, JD 200 LC or equivalent	per hour	\$ _____	75	\$ _____
.9	Jet rod truck	per hour	\$ _____	30	\$ _____
.10	Vibrator roller BW 172AD or equivalent	per hour	\$ _____	75	\$ _____
.11	Roller, walk behind	per hour	\$ _____	50	\$ _____
.12	Plate tamper	per hour	\$ _____	50	\$ _____
.13	Cut off saw, gas powered	per hour	\$ _____	30	\$ _____
.14	Portable generator, minimum 3 kW	per hour	\$ _____	50	\$ _____
.15	Sewer Video Inspection	per hour	\$ _____	30	\$ _____
.16	Water main sounding	per hour	\$ _____	50	\$ _____
.17	Backflow prevention valve testing	per hour	\$ _____	20	\$ _____
<b>D.</b>	<b>Approved backfill – as per Section 31 23 33.01 of Annex “A” REQUIREMENT</b>				
.1	Type 1 Gravel	per tonne	\$ _____	50	\$ _____
.2	Type 2 Gravel	per tonne	\$ _____	50	\$ _____
.3	Type 3 Surge	per tonne	\$ _____	50	\$ _____
.4	Type 4 Borrow	per tonne	\$ _____	50	\$ _____
.5	Type 5 Sand	per tonne	\$ _____	20	\$ _____
.6	Type 6 Clear stone	per tonne	\$ _____	10	\$ _____
.7	Type 7 Top soil	per tonne	\$ _____	30	\$ _____
<b>Table 5 – Option Year 3 Proposed Total Price</b>					\$ _____
<b>Note:</b> .1 Allowance for materials, specialty equipment at net cost, plus a mark-up of 10%. .2 Miscellaneous equipment such as boom trucks, post hole drills, signalling devices, etc., not listed on the equipment list above will not be on an hourly rate. They will be rented by the Contractor and paid out as per the rental invoice provided by the Contractor plus a mark-up of 10%. .3 Contaminated soil and tank removal will be at the above hourly rates. .4 Contaminated soil disposal (including transportation manifest) at a tipping fee.					

Solicitation No. - N° de l'invitation

W010C-170029

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

W010C-17-0029

Amd. No. - N° de la modif.

File No. - N° du dossier  
hal-7-79062

Buyer ID - Id de l'acheteur

HAL219

CCC No./N° CCC - FMS No./N° VME

**Total bid pricing = Table (1 + 2 + 3 + 4 + 5)**

**Table 1 \$** \_\_\_\_\_

**Table 2 \$** \_\_\_\_\_

**Table 3 \$** \_\_\_\_\_

**Table 4 \$** \_\_\_\_\_

**Table 5 \$** \_\_\_\_\_

\_\_\_\_\_

**Total Bid Price: \$** \_\_\_\_\_

## SECURITY REQUIREMENTS CHECK LIST

Buyer ID - Id de l'acheteur  
HAL219  
CCC No./N° CCC - FMS No./N° VME

[illegible]

[illegible]

Buyer ID - Id de l'acheteur  
HAL219  
CCC No./N° CCC - FMS No./N° VME

Current:



## **ANNEX “D” to PART 3 OF THE REQUEST FOR STANDING OFFERS**

### **ELECTRONIC PAYMENT INSTRUMENTS**

The Offeror accepts to be paid by any of the following Electronic Payment Instrument(s):

- ☐ ( ) VISA Acquisition Card;
- ☐ ( ) MasterCard Acquisition Card;
- ☐ ( ) Direct Deposit (Domestic and International);
- ☐ ( ) Electronic Data Interchange (EDI);
- ☐ ( ) Wire Transfer (International Only);
- ☐ ( ) Large Value Transfer System (LVTS) (Over \$25M)

## ANNEX "E"

### INSURANCE REQUIREMENTS

1. The Contractor must obtain Commercial General Liability Insurance, and maintain it in force throughout the duration of the Contract, in an amount usual for a contract of this nature, but for not less than \$2,000,000 per accident or occurrence and in the annual aggregate.
2. The Commercial General Liability policy must include the following:
  - a. Additional Insured: Canada is added as an additional insured, but only with respect to liability arising out of the Contractor's performance of the Contract. The interest of Canada should read as follows: Canada, as represented by Public Works and Government Services Canada.
  - b. Bodily Injury and Property Damage to third parties arising out of the operations of the Contractor.
  - c. Products and Completed Operations: Coverage for bodily injury or property damage arising out of goods or products manufactured, sold, handled, or distributed by the Contractor and/or arising out of operations that have been completed by the Contractor.
  - d. Personal Injury: While not limited to, the coverage must include Violation of Privacy, Libel and Slander, False Arrest, Detention or Imprisonment and Defamation of Character.
  - e. Cross Liability/Separation of Insureds: Without increasing the limit of liability, the policy must protect all insured parties to the full extent of coverage provided. Further, the policy must apply to each Insured in the same manner and to the same extent as if a separate policy had been issued to each.
  - f. Blanket Contractual Liability: The policy must, on a blanket basis or by specific reference to the Contract, extend to assumed liabilities with respect to contractual provisions.
  - g. Employees and, if applicable, Volunteers must be included as Additional Insured.
  - h. Employers' Liability (or confirmation that all employees are covered by Worker's compensation (WSIB) or similar program)
  - i. Broad Form Property Damage including Completed Operations: Expands the Property Damage coverage to include certain losses that would otherwise be excluded by the standard care, custody or control exclusion found in a standard policy.
  - j. Notice of Cancellation: The Insurer will endeavour to provide the Contracting Authority thirty (30) days written notice of policy cancellation.
  - k. If the policy is written on a claims-made basis, coverage must be in place for a period of at least 12 months after the completion or termination of the Contract.
  - l. Owners' or Contractors' Protective Liability: Covers the damages that the Contractor becomes legally obligated to pay arising out of the operations of a subcontractor.
  - m. Non-Owned Automobile Liability - Coverage for suits against the Contractor resulting from the use of hired or non-owned vehicles.
  - n. All Risks Tenants Legal Liability - to protect the Contractor for liabilities arising out of its occupancy of leased premises.
  - o. Sudden and Accidental Pollution Liability (minimum 120 hours): To protect the Contractor for liabilities arising from damages caused by accidental pollution incidents.
  - p. Litigation Rights: Pursuant to subsection 5(d) of the [Department of Justice Act](#), S.C. 1993, c. J-2, s.1, if a suit is instituted for or against Canada which the Insurer would, but for this clause, have the right to pursue or defend on behalf of Canada as an Additional Named Insured under the insurance policy, the Insurer must promptly contact the

Attorney General of Canada to agree on the legal strategies by sending a letter, by registered mail or by courier, with an acknowledgement of receipt.

**For the province of Quebec, send to:**

*Director Business Law Directorate,  
Quebec Regional Office (Ottawa),  
Department of Justice,  
284 Wellington Street, Room SAT-6042,  
Ottawa, Ontario, K1A 0H8*

**For other provinces and territories, send to:**

*Senior General Counsel,  
Civil Litigation Section,  
Department of Justice  
234 Wellington Street, East Tower  
Ottawa, Ontario K1A 0H8*

A copy of the letter must be sent to the Contracting Authority. Canada reserves the right to co-defend any action brought against Canada. All expenses incurred by Canada to co-defend such actions will be at Canada's expense. If Canada decides to co-defend any action brought against it, and Canada does not agree to a proposed settlement agreed to by the Contractor's insurer and the plaintiff(s) that would result in the settlement or dismissal of the action against Canada, then Canada will be responsible to the Contractor's insurer for any difference between the proposed settlement amount and the amount finally awarded or paid to the plaintiffs (inclusive of costs and interest) on behalf of Canada.



Department of National Defence



Specification

Standing Offer Agreement

## **Repairs to Water and Sewer Systems**

CFB Halifax, NS

Job No.W010C-17-0029

2017-04-25

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PART 1 - GENERAL

- 1.1 DESCRIPTION OF WORK .1 Work under this Standing Offer Agreement comprises the furnishing of all labour, material, tools, equipment, transportation, and supervision required to perform emergency and normal repairs to the water distribution systems, sanitary and storm sewer systems, and the installation and repairs to drainage systems, including the excavation and backfilling at various locations of CFB Halifax.
- 1.2 ENGINEER .1 All reference to the Engineer in this specification, who is the Contract Inspector which is representing the Real Property Operations Section - Halifax.
- .2 The Engineer will provide the Contractor with a list of his / her authorized representatives at the pre-job meeting.
- 1.3 WORK INCLUDED .1 Work included in this Standing Offer Agreement includes but will not be limited to the following:
- .1 Conduct repairs and installs to the following systems:
- .1 water distribution systems;
- .2 sanitary and storm sewer systems;
- .3 drainage systems including:
- .1 french drainage;
- .2 manholes; and
- .3 foundation drainage.
- .2 Conduct excavation, trenching and backfilling works.
- .3 After repairs, installation and backfilling, restore surface to original condition as directed by Engineer.
- .4 Conduct sewer system video inspection.
- .5 Conduct watermain sounding.
- .6 Provide an emergency repair service available on a twenty-four (24) hour, seven (7) day per week basis.

1.3 WORK INCLUDED  
(Cont'd)

- .1 (Cont'd)
- .7 Clean up.

1.4 LOCATIONS OF JOB  
SITES

- .1 Areas covered under this specification include but not limited to the following locations:

- .1 Halifax Regional Municipality (HRM) area:
  - .1 Stadacona - Halifax, NS;
  - .2 Windsor Park - Halifax, NS;
  - .3 Willow Park - Halifax, NS;
  - .4 Halifax Armoury - Halifax, NS;
  - .5 Royal Artillery (RA) Park - Halifax, NS;
  - .6 HMC Dockyard - Halifax, NS;
  - .7 Damage Control Division - Herring Cove, NS;
  - .8 Ferguson's Cove - Ferguson's Cove, NS;
  - .9 12 Wing Shearwater - Eastern Passage, NS;
  - .10 Osbourne Head Gunnery Range - Cow Bay, NS;
  - .11 Naval Armament Depot (NAD) - Dartmouth, NS;
  - .12 DRDC Atlantic - Dartmouth, NS;
  - .13 Shannon Park - Dartmouth, NS;
  - .14 Wright's Cove Degaussing Range - Dartmouth, NS;
  - .15 CFAD Bedford - Bedford, NS;
  - .16 Bedford Armoury - Bedford, NS; and
  - .17 Bedford Rifle Range - Bedford, NS.
- .2 Outlying areas:
  - .1 NRS Mill Cove - Mill Cove, NS;
  - .2 NRS Newport Corner - Newport Corner, NS; and



1.4 LOCATIONS OF JOB  
SITES  
(Cont'd)

- .1 (Cont'd)
- .2 (Cont'd)
- .3 Windsor Armoury - Windsor, NS.

1.5 SITE ACCESS

- .1 Access to the site is under the direction of the Department of National Defence. All visitors entering areas issuing a daily pass will be aware of the requirement for search as a condition of issue.
- .2 While within the confines of CFB Halifax all employees and representatives of the Contractor must comply with all of the Standing Orders as promulgated by Base Authorities.

1.6 PRE-JOB MEETING

- .1 Immediately upon receipt of award of Standing Offer Agreement, the successful Contractor will contact the Engineer to arrange a pre-job meeting prior to commencement of any work.

1.7 CONTRACTOR  
QUALIFICATIONS

- .1 The Contractor must satisfy the Engineer that he / she has adequate and qualified staff to perform the service expected. This includes all service calls within an acceptable time period and having adequate parts on hand to meet the requirements of the job, both during silent and normal working hours.
- .2 Whenever the Contractor uses sub-contractors, they too must perform to and comply with all requirements of this Standing Offer Agreement.

1.8 WORKMANSHIP

- .1 Workmanship must be the best quality executed by workers experienced and skilled in the respective duties for which they are employed.
- .2 Do not employ any unfit person or anyone unskilled in their required duties. The Engineer reserves the right to require the dismissal from the site, workers deemed incompetent, careless, insubordinate or otherwise objectionable.
- .3 Decisions as to the quality or fitness of workmanship in cases of dispute rest solely with the Engineer whose decision is final.
- .4 The Contractor will employ a competent and experienced supervisor with the authority to speak on his behalf on day-to-day routine matters.

1.9 NORMAL WORKING HOURS

- .1 Normal working hours will be 0730 to 1600 hours, Monday to Friday. Any work carried out other than normal working hours must be authorized by the Engineer.

1.10 CONTRACTOR'S USE OF SITE

- .1 Contractor will be briefed on use of site by the Engineer.
- .2 Do not unreasonably encumber site with materials or equipment.
- .3 Move stored products or equipment which interferes with operations of Engineer or other Contractors.
- .4 The Engineer will brief the Contractor on access to restricted areas.
- .5 Obtain a properly completed excavation permit from the Engineer prior to carrying out any excavations on site.

1.11 PARKING

- .1 In limited areas, a parking space will be made available on site for Contractor vehicles to drop off equipment and supplies. Maintain and administer this space as directed.
- .2 The Contractor may have to pay for parking at the following locations:
  - .1 Stadacona - Halifax, NS;
  - .2 Windsor Park - Halifax, NS;
  - .3 Willow Park - Halifax, NS;
  - .4 Royal Artillery (RA) Park - Halifax, NS;
  - .5 Halifax Armoury - Halifax, NS;
  - .6 HMC Dockyard - Halifax, NS; and
  - .7 Naval Armament Depot (NAD) - Dartmouth, NS.

1.12 CODES AND STANDARDS

- .1 Perform work in accordance with the latest edition of the National Building Code of Canada (NBC), Canadian Electrical Code Part I, Canada Labour Code Part II, National Fire Code of Canada, NS Fall Protection and Scaffold Regulations, and any other applicable federal, provincial and municipal regulations and by-laws. In any case of conflict or discrepancy, the more stringent requirements will apply.

1.12 CODES AND  
STANDARDS  
(Cont'd)

- .2 Meet or exceed requirements of Standing Offer documents, specified standards, codes and referenced documents.

1.13 LICENSES AND PERMITS

- .1 The Contractor will be responsible for obtaining and paying for all licenses and permits required to perform the Work.

1.14 PROTECTION OF  
EXISTING FACILITIES

- .1 The Contractor must take all necessary precautions to ensure against damage to existing facilities. Any damage to such facilities as a result of the Contractors operations must be repaired or replaced by the Contractor at his / her own expense, as soon as is reasonably possible.
- .2 Special coverings and protection must be provided to protect plants, walls, projections and adjacent work where materials are being removed, installed or hoisted.
- .3 The Contractor must protect all occupant owned furnishings and equipment, and the building from damage during execution of this Standing Offer Agreement.
- .4 Where the Engineer considers it necessary, provide and erect warning signs and barriers.

1.15 ALTERATIONS,  
ADDITIONS OR REPAIRS  
TO EXISTING BUILDING

- .1 Execute work with least possible interference or disturbance to building operations, occupants, public and normal use of premises. Arrange with Engineer to facilitate execution of work.
- .2 Where security has been reduced by work of Standing offer Agreement, provide temporary means to maintain security.
- .3 Provide temporary dust control, barriers, warning signs in locations where renovation and alteration work is adjacent to areas used by public or government staff.

1.16 EXISTING SERVICES

- .1 Notify Engineer and utility companies of intended interruption of services and obtain required permission.
- .2 Where Work involves breaking into or connecting to existing services, give 24 hours notice for necessary interruption of mechanical or electrical service throughout course of work. Minimize duration of interruptions. Carry out work at times as directed by governing authorities with minimum disturbance to tenant operations.

1.16 EXISTING SERVICES  
(Cont'd)

- .3 Provide alternate routes for personnel, pedestrians and vehicular traffic.
- .4 Establish location and extent of service lines in area of work before starting Work. Notify Engineer of findings.
- .5 Submit schedule to and obtain approval from Engineer for any shut-down or closure of active service or facility. Adhere to approved schedule and provide notice to affected parties.
- .6 Provide temporary services when directed by Engineer to maintain critical building and tenant systems.
- .7 Provide adequate bridging over trenches which cross sidewalks or roads to permit normal traffic.
- .8 Where unknown services are encountered, immediately advise Engineer and confirm findings in writing.
- .9 Protect, relocate or maintain existing active services. When inactive services are encountered, cap off in manner approved by authorities having jurisdiction.
- .10 Record locations of maintained, re-routed and abandoned service lines.

1.17 LOCATION OF  
EQUIPMENT AND FIXTURES

- .1 Location of equipment, fixtures and outlets indicated or specified are to be considered as approximate.
- .2 Locate equipment, fixtures and distribution systems to provide minimum interference and maximum usable space and in accordance with manufacturer's recommendation for safety access and maintenance.
- .3 Inform Engineer of impending installation and obtain his / her approval for actual location.

1.18 CUTTING, FITTING AND  
PATCHING

- .1 Execute cutting (including excavation), fitting and patching required to make work fit properly.
  - .2 Where new work connects with existing and where existing work is altered, or cut, patch and make good to match.
  - .3 Obtain Engineer's approval before cutting, boring or sleeving load-bearing members.
-

1.18 CUTTING, FITTING AND  
PATCHING  
(Cont'd)

- .4 Make cuts with clean, true, smooth edges. Make patches inconspicuous in final assembly.

1.19 POWER AND WATER  
SUPPLY

- .1 DND may provide, free of charge, temporary electric power and water for construction purposes.
- .2 Engineer will determine delivery points and quantitative limits. Engineer's written permission is required before any connection is made. Connect to existing power supply in accordance with Canadian Electrical Code.
- .3 Provide, at no cost to DND, all equipment and temporary lines to bring these services to project site.
- .4 Supply of temporary services by DND is subject to DND requirements and may be discontinued by DND site representative at any time without notice, without acceptance of any liability for damage or delay caused by such withdrawal of temporary services.
- .5 After the temporary service lines are no longer required, the Contractor must remove all lines and equipment, restore the connection points to their original condition and return the land to its original contour.

1.20 HEATING AND  
VENTILATING

- .1 Provide temporary heat and ventilation as required to:
- .1 facilitate progress of work;
- .2 protect work and products against dampness and cold;
- .3 prevent moisture condensation on surfaces;
- .4 provide ambient temperatures and humidity levels for storage, installation and curing of materials; and
- .5 provide adequate ventilation to meet health regulations for safe working environment.
- .2 Maintaining strict supervision of operation of temporary heating and ventilating equipment to:
- .1 conform with applicable codes and standards;
- .2 enforce safe practices;

1.20 HEATING AND  
VENTILATING  
(Cont'd)

- .2 (Cont'd)
- .3 prevent abuse of services;
- .4 prevent damage to finishes; and
- .5 vent direct-fired combustion units to outside.

1.21 MANUFACTURER'S  
INSTRUCTIONS

- .1 Unless otherwise specified, obtain and comply with manufacturer's latest printed instructions for materials and installation methods.
- .2 Notify Engineer in writing of any conflict between these specifications and manufacturer's instructions. Engineer will designate which document is to be followed.
- .3 Provide a copy of appropriate manufacturer's instructions to the Engineer prior to installing materials or equipment.

1.22 EMERGENCY AND  
SERVICE CALL-UPS

- .1 The Contractor must maintain and provide the Engineer with contact numbers to be able to provide response to request for service from the Engineer or representative on a 24 hours, 7 days per week basis. If the request for service from the after hours Departmental Representative, the Contractor must, immediately upon completion of the service, report back to the Engineer describing the action taken to correct the problem. The following Work priorities and response time will apply:

.1 Emergency:

- .1 A priority of "Emergency" is defined as a deficiency or breakdown that requires immediate attention to reduce the potential for danger to occupants, the general public, the environment, or the facility. Maintenance and repairs identified with this priority must be responded to immediately and must be reported without delay to designated manager.

.1 Standard response times:

- .1 Urban / rural: ASAP - 2 hours.

.2 Routine:

1.22 EMERGENCY AND  
SERVICE CALL-UPS  
(Cont'd)

- .1 (Cont'd)
- .2 (Cont'd)
  - .1 A priority of "Routine" is defined as essential maintenance and repairs which should be rectified at the earliest possible opportunity. It is considered as deficiencies or breakdowns that do not impair current operations or pose any danger to the occupants, the general public, the environment, or the facility.
    - .1 Standard response times:
      - .1 Urban / rural: 4 hours.
- .2 The Contractor will be advised of the personnel authorized to request emergency service. Services undertaken at the request of unauthorized persons will be done at the Contractor's risk, with regards to payment.
- .3 Report service calls executed outside normal working hours to the Engineer, immediately on the next working day.

1.23 ACCEPTABILITY OF  
MATERIALS

- .1 After award of Work, requests for "acceptance of materials" by Contract documents need be provided to the Engineer.
- .2 Requests must be supported with sufficient product information to enable an assessment to be made for approval.

1.24 INSPECTION

- .1 All work and materials covered by this specification will be subject to inspection at any time by the Engineer or his / her representative.

1.25 REPORTING  
IRREGULARITIES

- .1 The Contractor must notify the Engineer of irregularities in the work area, such as accidents, spills, structural defects, mechanical and / or electrical problems and / or any beyond the scope of work.

PART 2 - PRODUCTS

2.1 NOT USED

- .1 Not used.

PART 3 - EXECUTION

3.1 NOT USED

- .1 Not used.

PART 1 - GENERAL

1.1 RELATED  
REQUIREMENTS

- .1 Precedence:
  - .1 Division 1 sections take precedence over technical specifications in other Divisions of this specification.

1.2 DEFINITIONS

- .1 Canadian Industrial Security Directorate (CISD):
  - .1 A government agency that developed the Industrial Security Manual.
- .2 Company Security Officer (CSO):
  - .1 The CSO is the organization's official point of contact with the Industrial Security Program (ISP). He or she is responsible for monitoring the organization's security profile, addressing security issues, and is accountable to the ISP and to the organization's designated Key Senior Official on all industrial security matters.
- .3 Contractor CSO:
  - .1 The employee of the Contractor's company who is the CSO.
- .4 Industrial Security Manual (ISM):
  - .1 The ISM is a ready and simple reference which tells Company Security Officers what they must know about Canadian government security standards and procedures and how to ensure that their organization meets these security requirements.
- .5 Industrial Security Program (ISP):
  - .1 The Industrial Security Program (ISP) helps industry to participate in Government of Canada and foreign government contracts. CISD provide security screening services needed for contractors before their employees can work with Protected or Classified information and assets.
- .6 Visit Clearance Request (VCR):



1.2 DEFINITIONS  
(Cont'd)

- .6 (Cont'd)
- .1 Is a form that is required to be filled out by an individual who requires access to sensitive DND property, personnel, information, assets and resources so they must be security screened at the appropriate level before commencement of their duties.
- .7 Restricted:
- .1 Refers to a situation where authorized persons only are allowed access to an area or information.
- .8 Security Requirements Check List (SRCL):
- .1 The Security Requirements Check List (SRCL) is a Treasury Board Secretariat (TBS) form used to define the security requirements for a contract. The SRCL represents an evaluation of security threats and risks that may arise through the contracting process.
- .9 Sensitive:
- .1 Records that are sensitive contain information that can cause different degrees of injury to an individual, a company, or the country if the information were disclosed in an unauthorized manner.

1.3 REFERENCE SITES

- .1 Public Services and Procurement Canada (PSPC) Industrial Security:
- .1 <http://ssi-iss.tpsgc-pwgsc.gc.ca/index-eng.html>

1.4 GENERAL

- .1 Security requirements must form part of the Contract between DND and industry when defined by a Security Requirement Check List (SRCL).
- .2 A Security Requirement Check List (SRCL) is a form that is used to define the security requirements associated with all contracts. The SRCL ensures that the appropriate security clauses are identified so they may be incorporated into the contract, thereby legally binding the parties to meet the contract's security requirements.
- .1 The SRCL must accompany all Contract documents including subcontracts that contain security requirements.

1.4 GENERAL  
(Cont'd)

- .3 If multiple levels of screening are required, a Security Classification Guide may have been provided along with the SRCL as a contractual document. This document will provide further information related to security requirements when dealing with multiple levels of clearances within the Contract.

1.5 PRIVATE SECTOR  
ORGANIZATION  
SCREENING AND  
CLEARANCES

- .1 Companies who will need access to or who will retain controlled goods, Protected or Classified property, information, assets or resources must be cleared as follows:
- .1 Companies must be cleared to safeguard the highest level of information and asset to be retained.
- .1 Designated Organization Screening (DOS) is required for access to Protected information, assets and secure work sites, as part of a Contract, and as long they need-to-know. (Reliability Status).
- .2 Facility Security Clearance (FSC) is required for access to Protected or Classified information, assets, and secure worksites, as part of a contract, and as long as they have a need-to-know (Secret status).
- .3 Document Safeguarding Capability (DSC) is required by contract to work on Protected and / or Classified information at their own worksite.
- .4 Companies who will electronically process and / or transmit sensitive electronic data on their information technology systems must have the Authority to Process IT and must obtain the mandatory IT written approval letter from the ISP for the level of security requested.

1.6 PERSONNEL SECURITY  
SCREENING

- .1 Contracts with DND may require employees of the Contractor to access Protected and / or Classified information, assets or work sites. In these cases, the personnel who must have access to information and / or work site must have their personnel security screening completed. Please refer to PSPC website for more information.
- .2 Refer to PSPC website for the process to obtain a security screening.

- 1.7 VISIT CLEARANCE REQUESTS (VCR) APPROVAL
- .1 All individuals (including subcontractors) who will have access to sensitive DND information, assets, resources, or work sites must be security screened before submitting a visit clearance request (VCR).
  - .2 The VCR process verifies that those who are permitted access onto DND property have the required clearance level as outlined within the Security Requirement Check List (SRCL) for the Contract.
  - .3 All employees of the successful bidder who will be working on the contract require a VCR. The Contractor's CSO must forward the completed form to the Engineer for processing.

- 1.8 RESPONSIBILITY
- .1 It is the responsibility of the Contractor to have no security breaches while undertaking the work for this Contract.

PART 2 - PRODUCTS

- 2.1 NOT USED
- .1 Not used.

PART 3 - EXECUTION

- 3.1 NOT USED
- .1 Not used.

PART 1 - GENERAL

1.1 WORK SAFETY  
MEASURES

- .1 Observe and enforce construction safety measures by complying with the requirements of the following statutes and authorities:
  - .1 Canada Labour Code Part II and the Canada Occupational Health and Safety Regulations;
  - .2 Nova Scotia Occupational Health and Safety Act and supporting Occupational General Safety Regulations as amended from time to time;
  - .3 most recent amendments to the National Building Code of Canada, Part 8 and National Fire Code of Canada.
- .2 Refer to Section 01 35 35. DND Fire Safety Requirements.
- .3 Engineer will provide a copy of any relevant special written instructions to be followed.
- .4 Before Work Begins
  - .1 Bidder / Tender to provide documentation if requested by the Crown, indicating all safety training attained for each person who will be involved with the Standing Offer Agreement.
- .5 The following disciplinary measures will be taken for any violations of safety under this Standing Offer Agreement:
  - .1 First Violation:
    - .1 Verbal warning issued to the Contractor for the first violation of a safety regulation (Violation will be documented on Standing Offer file, copy to Contractor and PSPC.).
  - .2 Second Violation:
    - .1 Written warning to Contractor for second violation of a safety regulation (Violation will be documented on Standing Offer file, copy to Contractor and PSPC.).
  - .3 Third Violation:

1.1 WORK SAFETY  
MEASURES  
(Cont'd)

.5

(Cont'd)

.3

(Cont'd)

.1

A third violation of a safety regulation may result in the termination of the Standing Offer with a recommendation to the Contracting Authority that the Contractor be denied access to Real Property Operations Section - Halifax (RPOS(H)) contracts (Documented to Standing Offer file, copies to Contractor and PSPC.).

.4

Serious Violation:

.1

For a serious violation of a safety regulation as deemed by a regulator, project manager or safety officer a recommendation will be made to the Contracting Authority to immediately terminate the Contract / Standing Offer (Violation documented on Standing Offer file, copy to Contractor and PSPC.).

.5

Charges Laid or Guilty Determination by Courts:

.1

Infractions of safety regulations that result in charges being laid by a regulator against the Contractor or the Contractor being found guilty by the courts may result in that Contractor being denied access to RPOS(H) contracts.

1.2 HAZARD ASSESSMENTS

.1

Contractor must implement and carry out a health and safety hazard assessment program as part of the Work. Program to include:

.1

Initial Hazard Assessment:

.1

Carried out upon notification of Contract award and / or prior to commencement of Work.

.2

On-going Hazard Assessments:

.1

Performed during the progress of Work identifying new or potential health risks and safety hazards not previously known. As a minimum, hazards assessments must be carried out when:

.1

new sub-trade work, new sub-contractor (s) or new workers arrive at the site to commence another portion of the Work;

1.2 HAZARD ASSESSMENTS  
(Cont'd)

- .1 (Cont'd)
- .2 (Cont'd)
  - .2 the scope of Work has been changed;
  - .3 Work conducted in confined spaces; and / or
  - .4 potential hazard or weakness in current health and safety practices are identified by the Engineer.
- .2 Hazard assessments will be project and site specific, based on review of Standing Offer documents and site.
- .3 Each hazard assessment to be made in writing. Keep copies of all assessments on site for duration of Work. Upon request, make available to Engineer.
- .4 The Contractor must notify the Engineer of suspected hazardous material during work and not apparent from drawings, specifications, or report pertaining to work (e.g. lead, asbestos etc.). Do not disturb such material pending instructions from the Engineer. The Engineer will make the necessary arrangements for testing the material as required.

1.3 ASBESTOS PRODUCT &  
ASBESTOS ACTIVITY

- .1 Within the confines of the Base, the provision of new products containing fibrous asbestos materials is prohibited.
- .2 Demolition or disturbance of spray or trowel-applied asbestos can be hazardous to health. Should material resembling spray or trowel-applied asbestos be encountered in course of work, stop work and notify Engineer immediately. Do not proceed until written instructions have been received from Engineer.

1.4 HAZARDOUS MATERIAL  
SPILL

- .1 The Contractor or sub-contractors must report to the DND Fire Hall and the Engineer for any incident or spill involving hazardous materials (HAZMAT).
- .2 In the event of a hazardous material spill, the following procedures for initial actions must be followed:
  - .1 ensure safety of all personnel;
  - .2 assess spill hazards and risks;

1.4 HAZARDOUS MATERIAL  
SPILL  
(Cont'd)

- .2 (Cont'd)
- .3 ventilate area if release is indoors and remove all sources of ignition;
- .4 stop the spill if safely possible (e.g. shut off pump, replace cap, tip drum upward, patch leaking hole etc.).
- .5 no matter the volume is, contact the DND Fire Hall and provide the following information:
- .1 time of the spill;
- .2 location;
- .3 special considerations:
- .1 personal safety;
- .2 environmental.
- .4 type and amount of spill;
- .5 person reporting the spill:
- .1 name;
- .2 company; and
- .3 telephone number.
- .6 contain the spill;
- .7 isolate the area as required;
- .8 provide Material Safety Data Sheets (MSDS) to DND Fire Hall and Engineer;
- .9 contact the Engineer; and
- .10 clean up minor spills using appropriate protective equipment and supplies.

1.5 FASTENING DEVICES  
EXPLOSIVE ACTUATED

- .1 Explosive actuated devices must not be used without the approval of the Engineer.
- .2 Operator must have the appropriate training before using the explosive actuated device.

1.5 FASTENING DEVICES  
EXPLOSIVE ACTUATED  
(Cont'd)

- .3 Follow the manufacturer's safety guidelines and ensure the applicable personal protective equipment is used.

1.6 HOT WORK

- .1 All hot work activity is to take place with Engineer's approval and written permission from the Base Fire Chief (hot work permit). Hot work permits and fire watch requirements will be provided by the Base Fire Chief.
- .2 The ventilation system in the area of any hot work is to be isolated to prevent migration of fumes / smoke and to reduce any possible spread of fire to other areas of the facility.
- .3 Contractor is to employ an employee trained in the use of fire extinguishers as fire watch during any hot work for a minimum of 30 minutes after activity has ceased.

1.7 CONFINED SPACES

- .1 All work in confined spaces will be carried out in compliance with the Canada Occupational Safety and Health Regulations, Part XI.
- .2 The Contractor to provide and maintain all equipment as required by any person to enter and / or perform work in a safe manner, in compliance with the Canada Occupational Safety and Health Regulations, Part XI.
- .3 The Contractor to provide and maintain training, as required by the Canada Occupational Safety and Health Regulations, Part XI.
  - .1 The Contractor and / or his employees must provide proof of training and qualifications when requested by the Engineer.
- .4 The Contractor to provide the Engineer with a copy of an "entry permit" for each and every entry into the confined space to ensure compliance with the Canada Occupational Safety and Health Regulations, Part XI.
- .5 The Contractor to have a hazard assessment of the confined space performed.
  - .1 The Contractor to provide the Engineer with a copy of the hazard assessment.
- .6 The Contractor must have a written rescue plan posted on site.



1.7 CONFINED SPACES  
(Cont'd)

- .7 Contractor must inform DND Fire Hall and Central Heating plant before entering any service tunnel.

1.8 FALL PROTECTION

- .1 All work carried out above the mandatory height restrictions, from unguarded structure and / or scaffolding, will be done in compliance with the Canada Occupational Safety and Health Regulations, Part XII, Section 12.10.
- .2 The components of a fall protection system must meet the standards as outlined in the Canada Occupational Safety and Health Regulations, Part XII, Section 12.10 (2).
- .3 The Contractor is to ensure fall protection equipment is maintained, inspected and tested by a qualified technician as required by the Canada Occupational Safety and Health Regulations, Part XII, Section 12.3.

1.9 ARC FLASH

- .1 The Contractor is to ensure all electrical equipment such as switchboards, panel boards, motor control centres and meter socket enclosures be marked to warn persons of potential electric shock and arc flash hazards. This labeling is required for all new and modified installations.
- .2 The warning label must also include information regarding "arc flash hazard category (0 to 4)" and the "Flash Protection Boundary" as defined in NFPA 70E. All projects specifications must include short circuit study and flash hazard analysis.
- .3 In accordance with the CSA Standards Z462 Workplace Electrical Safety, electrical Contractors are required to perform a shock and flash hazard analysis to select the appropriate PPE to wear. Electrical contractors are required arc-rated personal protective equipment while troubleshooting and diagnostic testing that cannot be performed unless the electrical conductor or circuit part is energized. All Contractor work practices must protect each employee from arc flash and from contact with live parts directly with any part of the body or indirectly through some other conductive object.

1.10 SAFETY

- .1 It is the Contractor's responsibility to be familiar with all applicable safety acts, regulations, codes and Standing Offer requirements. These must be identified and addressed in the safety plan, by identifying Standard Operating Procedures (SOP) and safe work practices (SWP) which incorporate clear and specific control measures, applicable rules, procedures and practices, all of which will become mandatory.

1.10 SAFETY  
(Cont'd)

- .2 The Contractor must ensure all workers and authorized persons entering the work site are notified of and abide by the posted safety plan, safety rules, procedures, safe work practices and applicable safety acts, regulations, and codes. Any person not complying with these will not be permitted on the site.
- .3 Contractor must ensure that all applicable personal protective equipment (PPE) is used.
  - .1 All personnel are required to wear hard hats, in accordance with CSA Z94.1, Industrial Protective Headwear.
  - .2 All personnel are required to wear safety footwear, in accordance with CSA Z195, Protective Footwear.
  - .3 All personnel are required to wear eye and face protection, in accordance with CSA Z94.3.1, Selection, Use, and Care of Protective Eyewear.
  - .4 When and where noise level is above 85 decibels; all personnel are required to wear hearing protection, in accordance with CSA Z94.2, Hearing Protection Devices - Performance, Selection, Care and Use.
  - .5 Where toxic or noxious gas fumes, or oxygen deficiency or excessive dust may occur, so as to create a hazard to life, safety or health; all personnel are required to wear respiratory protection, in accordance with CAN/CSA Z94.4, Selection, Use, and Care of Respirators.
- .4 The Engineer will coordinate arrangements for the Contractor to be briefed on site safety within 14 days of award of Standing Offer Agreement.

1.11 SITE SIGNS AND  
NOTICES

- .1 Safety and instruction signs and notices:
  - .1 Signs and notices for safety and instruction must be in both official languages. Graphic symbols must conform to latest version of "Signs and Symbols for the Workplace".

PART 2 - PRODUCTS

2.1 NOT USED

- .1 Not used.

PART 3 - EXECUTION

<u>3.1 NOT USED</u>	.1	Not used.
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PART 1 - GENERAL

- 1.1 EMERGENCY REPORTING .1 Telephone numbers for emergency reporting will be provided by the Engineer at the fire safety briefing.
- 1.2 FIRE SAFETY ENFORCEMENT .1 Within the confines the Base, the prescription and enforcement of mandatory fire safety measures will be exercised under the authority of the Base Fire Chief.
- .2 Comply with and enforce compliance by all Contractor personnel with all requirements of this specification section, and with the most recent edition of the National Building Code of Canada (NBC) and the National Fire Code of Canada (NFC), including all subsequent revisions issued by the National Research Council of Canada.
- 1.3 FIRE SAFETY BRIEFING .1 Prior to commencement of work under this Standing Offer Agreement, the Engineer will arrange a meeting of all parties concerned to review and clarify requirements for fire safety measures. This may involve a briefing by the Base Fire Chief.
- 1.4 FIRE WATCH .1 For hot work activity, the Contractor will provide the service of fire-watch persons on a scale and schedule as prescribed by the Base Fire Chief at the time of issuance of the hot work permit.
- 1.5 FIRE EXTINGUISHERS .1 Supply fire extinguishers, as scaled by the Base Fire Chief, necessary to protect work in progress and Contractor's physical plant on site.
- 1.6 SMOKING PRECAUTIONS .1 Smoking not permitted on DND property except in designated smoking areas. This includes smoking in passenger motor vehicles.
- .2 In accordance with these fire safety requirements particular to the work area and site, the Engineer and Base Fire Chief will designate hazardous areas as well as non-restricted areas where smoking may be permitted.
- .3 Smoking is prohibited in all buildings.
- .4 In all other areas, exercise care and comply with written or oral directives of the Engineer for the use of smoking materials.

1.7 REPORTING FIRES

- .1 Report immediately all fire incidents as follows:
  - .1 activate nearest fire alarm box; or
  - .2 dial 9-1-1 or designated number given at the time of briefing; and
  - .3 telephone the Engineer.
- .2 Person activating fire alarm must remain at the alarm to direct the Fire Department to the scene of the fire.
- .3 When reporting fire by telephone, give location of fire, name and number of building and be prepared to direct the Fire Department to the scene of the fire.

1.8 INTERIOR AND  
EXTERIOR FIRE  
PROTECTION AND  
ALARM SYSTEMS

- .1 Notify Base Fire Chief at least 48 hours prior to scheduling any work that may require fire alarm and / or protection systems to be:
  - .1 obstructed in any way;
  - .2 shut-off; and / or
  - .3 left inactive at end of working day or shift without authorization from Base Fire Chief.
- .2 Do not commence any such work until Engineer confirms approval and direction by the Base Fire Chief.
- .3 Fire hydrants, standpipes and hose systems will not be used for other than fire fighting purposes unless authorized by the Engineer and the Base Fire Chief.

1.9 BLOCKAGE OF ACCESS  
FOR FIRE APPARATUS

- .1 Advise Base Fire Chief of work that would impede fire apparatus response. This includes violation of minimum overhead clearance, as prescribed by the Base Fire Chief, erecting of barricades and digging of trenches.

1.10 RUBBISH AND WASTE  
MATERIALS

- .1 Keep rubbish and waste materials at minimum quantities.
- .2 Storage:
  - .1 Where it is necessary to store oily waste in work areas exercise extreme care to ensure maximum possible safety and cleanliness.

1.10 RUBBISH AND WASTE  
MATERIALS

(Cont'd)

- .2 (Cont'd)
  - .2 Deposit greasy or oily rags and materials subject to spontaneous combustion in approved receptacles approved by the Base Fire Chief and removed as directed by the Engineer.
- .3 Burning of rubbish is prohibited.
- .4 Removal:
  - .1 Remove rubbish from work site at end of work day or shift or as directed by the Engineer.

1.11 FLAMMABLE AND  
COMBUSTIBLE LIQUIDS

- .1 Handling, storage and use of flammable and combustible liquids governed by current National Fire Code of Canada and guided by the requirements established by the Base Fire Chief.
- .2 Keep flammable and combustible liquids such as gasoline, kerosene and naphtha for ready use in quantities not exceeding 30 litres provided they are stored in approved safety cans bearing Underwriters' Laboratory of Canada or Factory Mutual seal of approval. Storage of quantities of flammable and combustible liquids exceeding 30 litres for work purposes requires permission of Base Fire Chief.
- .3 The Engineer reserves the right to require removal from the site any storage containers not acceptable to the Base Fire Chief.
- .4 Transfer of flammable and combustible liquids is prohibited within buildings or jetties.
- .5 Transfer of flammable and combustible liquids will not be carried out in vicinity of open flames or any type of heat producing devices.
- .6 Do not use flammable liquids having flash point below 38 degrees C such as naphtha or gasoline as solvents or cleaning agents.
- .7 Store flammable and combustible waste liquids, for disposal, in approved containers located in safe ventilated area. Keep quantities minimum and Base Fire Department is to be notified when disposal is required.

1.12 HAZARDOUS  
SUBSTANCES

- .1 Work entailing use of toxic or hazardous materials, chemicals and / or explosives, or otherwise creating hazard to life, safety or health, in accordance with National Fire Code of Canada, and measures prescribed by the Base Fire Chief.
- .2 Obtain from Base Fire Chief a "hot work" permit for work involving welding, burning or use of blowtorches and salamanders, in buildings or facilities.
- .3 When Work is carried out in dangerous or hazardous areas involving use of heat, provide fire watchers equipped with sufficient fire extinguishers. Determination of dangerous or hazardous areas along with level of protection necessary for fire watch is at discretion of Base Fire Chief. Contractors are responsible for providing fire watch service for work on scale established and in conjunction with Base Fire Chief at pre-work conference.
- .4 Provide ventilation where flammable liquids, such as lacquers or urethanes are used, eliminate sources of ignition. Inform Base Fire Chief prior to and at cessation of such work.

1.13 FIRE INSPECTION

- .1 Co-ordinate site inspections by Base Fire Chief through Engineer.
- .2 Allow Base Fire Chief unrestricted access to work site.
- .3 Co-operate with Base Fire Chief during routine fire safety inspection of work site.
- .4 Immediately remedy unsafe fire situations observed by Base Fire Chief.

PART 2 - PRODUCTS

2.1 NOT USED

- .1 Not used.

PART 3 - EXECUTION

3.1 NOT USED

- .1 Not used.

PART 1 - GENERAL

1.1 GENERAL

- .1 The Contractor must ensure that all their personnel are familiar with these regulations and requirements.
- .2 The following is a summary the security, safety and fire regulations Canadian Forces Ammunition Depot (CFAD) Bedford, as promulgated by the Base Commander of CFB Halifax and administered by the Superintendent CFAD Bedford, NS.
- .3 Contractor's personnel will be subject to all of the regulations while working within confines of CFAD Bedford.

1.2 PRE JOB SECURITY AND SAFETY MEETING

- .1 Prior to commencement of Work, the Contractor must meet with the site security, safety and fire regulations officers. In accordance with direction of Engineer and these site officers, ensure that all employees of the Contractor are given thorough instructions on security, safety and fire precautions peculiar to an ammunition depot and that the regulations are fully complied with, at all times, by all Contractor personnel.

1.3 SECURITY PASSES

- .1 Contractors must report to the NCO I / C Commissionaires at building 153; submit names of all their personnel and description of all their vehicles to arrange the issue of the required temporary passes prior to proceeding to work within the confines of the Depot.

1.4 CONDITIONS FOR ACCESS

- .1 All visitors will be issued a daily and will be required to sign acknowledgement that they are aware of and consent to the following conditions for access.
- .2 The person to whom this pass is issued agrees to return the pass to the security guard at the gate when the Contract or employment at CFAD Bedford expires.
- .3 All vehicles entering and leaving CFAD Bedford may be searched to ensure that no prohibited articles are taken into nor contraband articles are taken out of the ammunition depot.



1.5 FIRE SERVICE CFAD  
BEDFORD

- .1 Fire service at CFAD Bedford is provided by the DND Fire Service from 0730 until 1600 hours, Monday to Friday. All Contract work will be ended by 1530 hours daily. Fire response at all other times is provided by HRM. Before any work is carried out during silent hours, the Dockyard Platoon Chief must be contacted at 427-0550, local 3500.

1.6 SEARCHES

- .1 The Canadian Corps of Commissionaires may conduct a personal search of individuals at any time within the Ammunition Depot. Vehicles entering or leaving the Depot may be searched to ensure that contraband articles are not taken into the explosives area and that property is not taken out without authorization.

1.7 ALARMS

- .1 Depot Alarms:
  - .1 A siren is sounded only in the event of an emergency such as a fire, explosion, thunderstorm or evacuation. A siren is also sounded to signify "All Clear".
- .2 Fire Emergency:
  - .1 A series of "Hi-Lo" sounds on the Depot alarm system signifies an emergency in the explosive area. Contractors must cease operations and proceed in their own vehicles to the nearest exit gate out of the explosive area. If no vehicle available proceed to the nearest "Fire Assembly Point" at buildings 169 or 143.
- .3 Thunder and Lightning:
  - .1 A series of "Beeps" on the Depot alarm system signifies a thunder / lightning storm warning. Contractors must cease operations and proceed in their own vehicles to the nearest exit gate out of the explosive area. If no vehicle available proceed to the nearest "Fire Assembly Point" at buildings 169 or 143.
- .4 Evacuation:
  - .1 A series of "Slow Whoops" on the Depot alarm system signifies that evacuation in the explosive area has been ordered by the Superintendent. The evacuation could be extended to include the non-explosive area as well as so ordered by the Superintendent.
- .5 All Clear:

1.7 ALARMS  
(Cont'd)

- .5 (Cont'd)  
.1 A continuous blast on the Depot alarm system signifies that the emergency situation is "All Clear".

1.8 REPORTING OF FIRES

- .1 All fires, regardless of whether they have been extinguished or not, must be reported immediately to the Base Fire Department.
- .2 All Contractors and employees must familiarize themselves with the locations of the nearest fire alarm box or telephone.
- .3 Fires may be reported by ringing the nearest street alarm box or by telephoning 9-1-1. Persons reporting the fire must remain at the alarm box or telephone until the Fire Department arrives and be prepared to direct fire fighters to the scene of the fire.

1.9 PROHIBITED ARTICLES

- .1 The following articles are prohibited and / or controlled from being taken inside the explosive area. Permission by the Superintendent may be granted for certain articles:
- .1 matches or other flame producing equipment (including vehicle lighters);
- .2 pipes, smoking appliances, tobacco products, or smoking materials in any form;
- .3 explosives or chemicals;
- .4 lights, lamps or electrical devices / tools which are not explosion proof;
- .5 cameras;
- .6 food and drink; and
- .7 radio transmitting devices (i.e. mobile radios, cellular phone phones, remote car starters, and garage door openers, etc).
- .2 No persons will introduce, possess or consume alcoholic beverages, narcotics or any intoxicant within the confines of the Ammunition Depot.
- .3 The site security officers will seize and hold at the gate, any such materials found by search.

1.10 SAFETY AND FIRE  
REGULATIONS

- .1 Smoking:
  - .1 Is strictly prohibited in explosive areas.
- .2 Buildings:
  - .1 Smoking is prohibited in all buildings.
- .3 Safety Precautions Electrical / Electronic Equipment:
  - .1 All personnel operating or maintaining electrical / electronic equipment involving the use of voltage higher than 50 V must brief the site safety and fire safety officers concerning all safety rules in the operating and instructional manuals covering the equipment.
- .4 Flammables, Explosives or Chemicals:
  - .1 As required, may be allowed into the explosive area provided that the Depot Safety Officer and the Depot Fire Department are made aware of this and that approval by the Superintendent is given. These items after approval may be transported by the Contractors provided the transportation route is known by the Depot Fire Department and adequate fire extinguishers are available.
- .5 Open Flame or Welding:
  - .1 Prior approval must be obtained before commencing any work involving cutting, welding or use of open flame appliances in or around buildings containing explosives. The Fire Safety Officer will check out the work area and ensure that adequate fire extinguishers and first aid appliances are available and that fire watchers have been posted.
- .6 Fuel Dispensing Containers:
  - .1 Contractors must ensure that all of their fuel dispensing containers meet or exceed the following standards:
    - .1 type II safety container, leakproof, Terne plate construction, UL listed and FM approved;
    - .2 container must have spring-operated spout cap which opens to allow vapours to escape and self closes on release of internal pressures;

1.10 SAFETY AND FIRE  
REGULATIONS  
(Cont'd)

- .6 (Cont'd)  
.1 (Cont'd)  
.3 container must have flexible or rigid built-in metal dispensing nozzle to prevent static sparks;  
.4 standard of Acceptance: Protectoseal, model nos. 247, 249, 8410 and 8420;  
.5 other acceptable products: Safe-T-Way; and  
.6 any other model must be approved by the BFC.  
.7 Violation of any of the above regulations will result in immediate cancellation of the offender's security pass and expulsion from the site.

1.11 TRAFFIC REGULATIONS

- .1 Vehicles:  
.1 All operators must adhere strictly to the following rules while proceeding through the Ammunition Depot:  
.1 drivers must not leave the motors of their vehicles running or leave the vehicles unattended when parked between buildings or traverses;  
.2 drivers must not drive vehicles in the direction opposite to that indicated by the "One-way" signs;  
.3 no one will operate a vehicle within the Depot area at a speed greater than 25 kilometres per hour at any time;  
.4 no one will operate a vehicle within the Depot area at a speed greater than 8 kilometres per hour at any time, while passing between blast walls and buildings;  
.5 no one will leave a vehicle unattended within 10 metres of a fire hydrant or within 30 metres of a building containing explosives; and  
.6 all vehicles must be equipped with a fire extinguisher of a suitable size and type so that it may be used to extinguish any fire originating in that vehicle.

1.11 TRAFFIC REGULATIONS  
(Cont'd)

- .1 (Cont'd)
  - .1 (Cont'd)
  - .2 Violation of any of the above regulations will result in immediate cancellation of the offender's vehicle pass and expulsion from the site.
- .2 Roadways:
  - .1 In the event of a fire or emergency all roads and buildings within CFAD Bedford must be accessible at all times. Contractors required to disrupt roadways during the course of their work, must ensure that at least one lane of each roadway is passable, at all times. Vehicles not required to transport personnel to the nearest exit gate must be parked on the side of the road and away from the nearest building.
- .3 Fueling:
  - .1 Fueling of vehicles within the explosive areas is prohibited. Small equipment (lawn mowers, chainsaws, etc.) may be re-fueled, but only at sites designated by the Safety Officer and Fire Safety Officer. Comply with all safety practices pertaining to re-fueling hot equipment. Provide adequate fire extinguishers of types prescribed by the Fire Safety Officer. Only approved safety dispensing containers, as specified at sub-paragraph 1.10.6, will be permitted within the confines of the Ammunition Depot.
- .4 Violation of any of the above regulations will result in immediate cancellation of the vehicle pass and expulsion of the offender from the site.

PART 2 - PRODUCTS

2.1 NOT USED

- .1 Not used.

PART 3 - EXECUTION

3.1 NOT USED

- .1 Not used.

PART 1 - GENERAL

- 1.1 SITE ACCESS .1 Contractor's personnel are required to report to the main desk each morning, sign the register and obtain an identification badge which must be displayed on their person at all times. Upon leaving the Complex at the end of the day, or at lunch time, the Contractor's personnel must report to the main desk, return the badge and be signed off the register.
- 1.2 PARKING .1 Contractor's vehicles will be allowed into the inner compound only under the following conditions; namely, for short periods of time, to load or unload equipment and supplies and then remove to the upper parking lot adjacent to Windmill Road or to the street. The site supervisor of the contracting firm will be allowed to park his / her vehicle, for short periods of time, in one of the visitor's parking slots or, if filled, he / she will be permitted to park in the inner compound while making periodic progress visits. It is emphasized that contractors' vehicles entering the inner compound can be subject to search by the Commissionaire on duty upon their departure. DRDC Atlantic reserves the right to limit the above-mentioned parking privileges if they are being abused.

PART 2 - PRODUCTS

- 2.1 NOT USED .1 Not used.

PART 3 - EXECUTION

- 3.1 NOT USED .1 Not used.

PART 1 - GENERAL

1.1 DEFINITIONS

- .1 Environmental Pollution and Damage:
  - .1 Presence of chemical, physical, biological elements or agents which adversely affect human health and welfare; unfavourably alter ecological balances of importance to human life; affect other species of importance to humans; or degrade environment aesthetically, culturally and / or historically.
- .2 Environmental Protection:
  - .1 Prevention / control of pollution and habitat or environment disruption during construction.

1.2 FIRES

- .1 Fires and burning of rubbish on site is not permitted.

1.3 DISPOSAL OF WASTE

- .1 Do not dispose of waste or volatile materials, such as mineral spirits, oil or paint thinner into waterways, storm or sanitary sewers.
- .2 Do not bury rubbish and waste materials on site.
- .3 All spills must be reported immediately to the Engineer and cleanup will be done at Contractor's expense.

1.4 DRAINAGE

- .1 Provide temporary drainage and pumping required to keep excavations and site free from water.
- .2 Ensure pumped water into waterways, sewer or drainage systems is free of suspended materials.
- .3 Control disposal or runoff of water containing suspended materials or other harmful substances in accordance with local authority requirements.

1.5 SITE CLEARING AND  
PLANT PROTECTION

- .1 Protect trees and plants on site and adjacent properties as indicated.
- .2 Wrap in burlap, trees and shrubs adjacent to construction work, storage areas and trucking lanes, and encase with protective wood framework from grade level to height of 2m minimum.

1.5 SITE CLEARING AND  
PLANT PROTECTION  
(Cont'd)

- .3 Protect roots of designated trees to dripline during excavation and site grading to prevent disturbance or damage. Avoid unnecessary traffic, dumping and storage of materials over root zones.
- .4 Minimize stripping of topsoil and vegetation.
- .5 Restrict tree removal to areas indicated or designated by Engineer.

1.6 WORK ADJACENT TO  
WATERWAYS

- .1 Construction equipment to be operated on land only.
- .2 Do not use waterway beds for borrow material.
- .3 Waterways to be free of excavated fill, waste materials and debris.
- .4 Design and construct temporary crossings to minimize erosion to waterways.
- .5 Do not skid logs or construction materials across waterways.
- .6 Avoid indicated spawning beds when constructing temporary crossings of waterways.

1.7 POLLUTION CONTROL

- .1 Maintain temporary erosion and pollution control features installed under this Contract.
- .2 Control emissions from equipment and plant in accordance with local authorities' emission requirements.
- .3 Prevent sandblasting and other extraneous materials from contaminating air and waterways beyond application area.
  - .1 Provide temporary enclosures where directed by Engineer.
- .4 Cover or wet down dry materials and rubbish to prevent blowing dust and debris. Provide dust control for temporary roads.

PART 2 - PRODUCTS

2.1 NOT USED

- .1 Not used.



PART 3 - EXECUTION

<u>3.1 NOT USED</u>	.1	Not used.
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PART 1 - GENERAL

1.1 INSTALLATION AND  
REMOVAL

- .1 Provide temporary controls in order to execute Work expeditiously.
- .2 Remove from site all such work after use.

1.2 HOARDING

- .1 Erect temporary site enclosures using 38mm x 89mm construction grade lumber framing at 600mm centres and 1200mm x 2400mm x 13mm exterior grade fir plywood to CSA O121.
- .2 Maintain a one hour fire rating as required by Fire Marshall.
- .3 Apply plywood panels vertically as indicated flush and butt jointed.
- .4 Provide one lockable truck entrance gate and at least one pedestrian door as directed and conforming to applicable traffic restrictions on adjacent streets. Equip gates with lock and keys.
- .5 Erect and maintain pedestrian walkways including roof and side covers, complete with signs and electrical lighting as required by law.
- .6 Paint public side of site enclosure in selected colours with one coat primer and one coat exterior paint as per Master Painters Institute standards. Maintain public side of enclosure in clean condition.
- .7 Erect temporary site enclosure using new 1.2m high snow fence wired to rolled steel "T" bar fence post spaced at 2.4m on centre. Provide one lockable truck gate. Maintain fence in good repair.
- .8 Provide barriers around trees and plants designated to remain. Protect from damage by equipment and construction procedures.

1.3 GUARD RAILS AND  
BARRICADES

- .1 Provide secure, rigid guard rails and barricades around deep excavations, open shafts, open stair wells, open edges of floors and roofs.
- .2 Provide as required by governing authorities.

<u>1.4 WEATHER ENCLOSURES</u>	.1	Provide weather tight closures to unfinished door and window openings, tops of shafts and other openings in floors and roofs.
	.2	Close off floor areas where walls are not finished; seal off other openings; enclose building interior work for temporary heat.
	.3	Design enclosures to withstand wind pressure and snow loading.
<u>1.5 ACCESS TO SITE</u>	.1	Provide and maintain access roads, sidewalk crossings, ramps and construction runways as may be required for access to Work.
<u>1.6 PUBLIC TRAFFIC FLOW</u>	.1	Provide and maintain competent signal flag operators, traffic signals, barricades and flares, lights, or lanterns as required to perform Work and protect public.
<u>1.7 FIRE ROUTES</u>	.1	Maintain access to property including overhead clearances for use by emergency response vehicles.
<u>1.8 PROTECTION FOR OFF-SITE AND PUBLIC PROPERTY</u>	.1	Protect surrounding private and public property from damage during performance of Work.
	.2	Be responsible for damage incurred.
<u>1.9 PROTECTION OF BUILDING FINISHES</u>	.1	Provide protection for finished and partially finished building finishes and equipment during performance of Work.
	.2	Provide necessary screens, covers, and hoardings.
	.3	Confirm with Engineer locations and installation schedule 3 days prior to installation.
	.4	Be responsible for damage incurred due to lack of or improper protection.
<u>PART 2 - PRODUCTS</u>		
<u>2.1 NOT USED</u>	.1	Not used.

PART 3 - EXECUTION

<u>3.1 NOT USED</u>	.1	Not used.
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PART 1 - GENERAL

1.1 PROJECT CLEANLINESS

- .1 Maintain Work in tidy condition, free from accumulation of waste products and debris, other than that caused by Owner or other Contractors.
- .2 Remove waste materials from site at daily regularly scheduled times or dispose of as directed by Engineer. Do not burn waste materials on site.
- .3 Make arrangements with and obtain permits from authorities having jurisdiction for disposal of waste and debris.
- .4 Solid waste materials that are generated within Halifax Regional Municipality (HRM) and do not require specialized out of county disposal sites must be disposed of within the boundaries of the HRM at a licensed or approved facility as per bylaw S-600.
- .5 Store volatile waste in covered metal containers, and remove from premises at end of each working day.
- .6 Provide adequate ventilation during use of volatile or noxious substances. Use of building ventilation systems is not permitted for this purpose.
- .7 Use only cleaning materials recommended by manufacturer of surface to be cleaned, and as recommended by cleaning material manufacturer.
- .8 Schedule cleaning operations so that resulting dust, debris and other contaminants will not fall on wet, newly painted surfaces nor contaminate building systems.

1.2 FINAL CLEANING

- .1 When Work is Substantially Performed remove surplus products, tools, construction machinery and equipment not required for performance of remaining Work.
- .2 Remove waste products and debris other than that caused by others, and leave Work clean and suitable for occupancy.
- .3 Inspect finishes, fitments and equipment and ensure specified workmanship and operation.
- .4 Broom clean and wash exterior walks, steps and surfaces; rake clean other surfaces of grounds.
- .5 Remove dirt and other disfiguration from exterior surfaces.

1.2 FINAL CLEANING  
(Cont'd) .6 Sweep and wash clean paved areas.

PART 2 - PRODUCTS

2.1 NOT USED .1 Not used.

PART 3 - EXECUTION

3.1 NOT USED .1 Not used.

## PART 1 - GENERAL

### 1.1 REFERENCES

- .1 American Society for Testing and Materials International (ASTM)
  - .1 ASTM C117, Standard Test Method for Material Finer than 0.075 mm (No. 200) Sieve in Mineral Aggregates by Washing.
  - .2 ASTM C136, Standard Test Method for Sieve Analysis of Fine and Coarse Aggregates.
  - .3 ASTM ADJD0422, Test Method for Particle-Size Analysis of Soils.
- .2 Canadian Standards Association (CSA International)
  - .1 CAN/CSA-A3000, Cementitious Materials Compendium (Consists of A3001, A3002, A3003, A3004 and A3005).
  - .2 CSA-A23.1/A23.2, Concrete Materials and Methods of Concrete Construction / Methods of Test and Standard Practices for Concrete.
- .3 Standard Specification for Municipal Services, compiled by the Joint Committee of Nova Scotia Road Builders Association and Nova Scotia Consulting Engineers Association.

### 1.2 DEFINITIONS

- .1 Risk Based Corrective Action (RBCA):
  - .1 Hydrocarbon contaminated soil will be managed using the Atlantic RBCA protocol. Atlantic RBCA is a tiered approach where increasing site-specific detail can be used to derive remedial criteria that are progressively more specific to the site and less reliant on generic assumptions.
- .2 Topsoil:
  - .1 Material capable of supporting good vegetative growth and suitable for use in top dressing, landscaping and seeding.
  - .2 Material reasonably free from subsoil, clay lumps, brush, objectionable weeds, and other litter. and free from cobbles, stumps, roots, and other objectionable material larger than 25 millimeters (1 inch) in any dimension.

1.2 DEFINITIONS  
(Cont'd)

- .3 Waste material:
- .1 Excavated material unsuitable for use in Work or surplus to requirements.
- .4 Borrow material:
- .1 Material obtained from locations outside area to be graded, and required for construction of fill areas or for other portions of Work.

1.3 SOIL TESTING

- .1 The Contractor must provide DND unlimited access at all times to the floors and walls of excavations for verification soil sampling in conformance with environmental procedures and federal and provincial policies and regulations. If the floor or walls of an excavation are contaminated, the Engineer can request the Contractor to proceed with additional excavation of the designated soil.

1.4 EXCAVATION PERMIT

- .1 Obtain a properly completed excavation permit from the Engineer prior to carrying out any excavations on site.
- .2 The excavation permit must be signed by all applicable shops and departments and approved by the Engineer prior to doing any excavation work.

1.5 CONTAMINATED SOIL

- .1 During excavation activities, if evidence of contaminated soil or material is encountered, the Contractor must inform the Engineer. Contaminated soil or material must be separated from clean soil and tarped to prevent contamination of the surrounding environment. The Engineer will assess or have a certified professional assess the soil and any further handling of the contaminated soil or material will be directed by the Engineer.

1.6 CONTAMINATED SOIL  
TRANSPORTATION  
MANIFEST

- .1 The Engineer must supply and fill out the "Point of Departure" section of the manifest and hand over to the truck driver for completion of "Destination" section at the disposal site. Client copy of manifest and copy of delivery slip to be returned to Engineer.

1.7 WEIGH BILLS

- .1 The Contractor must supply two (2) copies of the weigh bill to the Engineer for backfill and materials supplied.



## PART 2 - PRODUCTS

### 2.1 MATERIALS

- .1 Type 1 and type 2 gravel:
  - .1 Crushed, pit run or screened stone, gravel or sand consisting of hard durable particles free from clay lumps, organic material, frozen material and other deleterious materials and in accordance with NSDOT&C specifications.
  - .2 Gradations to be within limits specified when tested to ASTM C136 and ASTM C117. Sieve sizes as per references.
- .2 Type 3 gravel (surge):
  - .1 Pit run material removed from a pit approved by the Nova Scotia Department of Transportation.
  - .2 Gradations to be less than 20% passing 75mm (#200 sieve) and maximum size to be 150mm (6 inches).
- .3 Type 4 fill (borrow):
  - .1 Selected material from excavation or other sources, approved by Engineer for use intended, unfrozen and free from rocks larger than 75 mm, cinders ashes sods refuse or other deleterious materials.
- .4 Type 5 fill (sand):
  - .1 Hard, granular, sharp material, well graded from coarse to fine, free of impurities, chemicals or organic matter, and graded as follows:
    - .1 Sieve Designation / Cum. % Passing
      - .1 5mm / 100
      - .2 0.16mm / 0-5
- .5 Type 6 fill (clear stone):
  - .1 Crushed and screened, hard, durable stone, free from clay and organic matter, and graded as follows:
    - .1 Sieve Designation / Cum. % Passing
      - .1 28mm / 95-100

## 2.1 MATERIALS

<u>(Cont'd)</u>	.5	(Cont'd)
	.1	(Cont'd)
	.2	14mm / 25-60
	.3	5mm / 0-10
	.6	Type 7 fill (topsoil):
	.1	Topsoil for seeded or sodded areas to be a mixture of particulates, micro organisms and organic matter which provide suitable medium for supporting intended plant growth.
	.2	Soil texture based on the Canadian System of Soil Classification, to consist of 20 to 70% sand, minimum 7% clay, and contain 2 to 10% organic matter by weight.
	.3	Contain no toxic elements or growth inhibiting materials.
	.4	Finished surface free from:
	.1	debris and stones over 50mm diameter;
	.2	coarse vegetative material, 10mm diameter and 100mm length, occupying more than 2% of soil volume.
	.5	Consistence: Friable when moist.

## PART 3 - EXECUTION

<u>3.1 TEMPORARY EROSION AND SEDIMENTATION CONTROL</u>	.1	Provide temporary erosion and sedimentation control measures to prevent soil erosion and discharge of soil-bearing water runoff or airborne dust to adjacent properties and walkways, according to requirements of authorities having jurisdiction.
	.2	Inspect, repair, and maintain erosion and sedimentation control measures during construction until permanent vegetation has been established.
	.3	Remove erosion and sedimentation controls and restore and stabilize areas disturbed during removal.
<u>3.2 SITE PREPARATION</u>	.1	Remove obstructions, ice and snow, from surfaces to be excavated within limits indicated.

3.2 SITE PREPARATION  
(Cont'd)

- .2 Cut pavement or sidewalk neatly along limits of proposed excavation in order that surface may break evenly and cleanly.

3.3 PREPARATION /  
PROTECTION

- .1 Protect existing features in accordance with Section 01 56 00 - Temporary Barriers and Enclosures and applicable local regulations.
- .2 Keep excavations clean, free of standing water, and loose soil.
- .3 Where soil is subject to significant volume change due to change in moisture content, cover and protect to Engineer's approval.
- .4 Protect natural and man-made features required to remain undisturbed. Unless otherwise indicated or located in an area to be occupied by new construction, protect existing trees from damage.
- .5 Protect buried services that are required to remain undisturbed.

3.4 STRIPPING OF TOPSOIL

- .1 Begin topsoil stripping of areas as directed by Engineer after area has been cleared of brush, weeds and grasses and removed from site.
- .2 Strip topsoil to depths as directed by Engineer.
  - .1 Do not mix topsoil with subsoil.
- .3 Stockpile in locations as directed by Engineer.
  - .1 Stockpile height not to exceed 2m and should be protected from erosion.
- .4 Dispose of unused topsoil off site.

3.5 STOCKPILING

- .1 Stockpile fill materials in areas designated by Engineer.
  - .1 Stockpile granular materials in manner to prevent segregation.
- .2 Protect fill materials from contamination.
- .3 Implement sufficient erosion and sediment control measures to prevent sediment release off construction boundaries and into water bodies.

3.6 COFFERDAMS,  
SHORING, BRACING AND  
UNDERPINNING

- .1 Maintain sides and slopes of excavations in safe condition by appropriate methods and in accordance with Section 01 35 30 - Health and Safety Requirements and the Health and Safety Act for the Province of Nova Scotia.
  - .1 Where conditions are unstable, Engineer to verify and advise methods.
- .2 Obtain permit from authority having jurisdiction for temporary diversion of water course.
- .3 Construct temporary Works to depths, heights and locations as directed by Engineer.
- .4 During backfill operation:
  - .1 Unless otherwise indicated or directed by Engineer, remove sheeting and shoring from excavations.
  - .2 Do not remove bracing until backfilling has reached respective levels of such bracing.
  - .3 Pull sheeting in increments that will ensure compacted backfill is maintained at elevation at least 500mm above toe of sheeting.
- .5 When sheeting is required to remain in place, cut off tops at elevation as indicated.
- .6 Upon completion of substructure construction:
  - .1 Remove cofferdams, shoring and bracing.
  - .2 Remove excess materials from site and restore watercourses as directed by Engineer.

3.7 DEWATERING AND  
HEAVE PREVENTION

- .1 Keep excavations free of water while Work is in progress.
- .2 Protect open excavations against flooding and damage due to surface run-off.
- .3 Dispose of water in accordance with Section 01 35 43 - Environmental Procedures to approved collection or runoff areas and in manner not detrimental to public and private property, or portion of Work completed or under construction.

3.7 DEWATERING AND  
HEAVE PREVENTION  
(Cont'd)

- .4 Provide flocculation tanks, settling basins, or other treatment facilities to remove suspended solids or other materials before discharging to storm sewers, watercourses or drainage areas.

3.8 STORAGE

- .1 Store non-contaminated soil only on the surfaces of the job site that are non-contaminated. Identify proposed storage sites for non-contaminated soil. Protect non-contaminated soil from all contact with drainage water, contaminated groundwater and contaminated soil.

3.9 EXCAVATION

- .1 Excavate to lines, grades, elevations and dimensions as required to perform the Work in compliance with governing authorities.
- .2 Excavation must not interfere with bearing capacity of adjacent foundations.
- .3 For trench excavation, unless otherwise authorized by Engineer in writing, do not excavate more than 30m of trench in advance of installation operations and do not leave open more than 15m at end of day's operation.
- .4 Keep excavated and stockpiled materials safe distance away from edge of trench as directed by Engineer.
- .5 Restrict vehicle operations directly adjacent to open trenches.
- .6 Dispose of surplus and unsuitable excavated material in approved location off site.
- .7 Do not obstruct flow of surface drainage or natural watercourses.
- .8 Earth bottoms of excavations to be undisturbed soil, level, free from loose, soft or organic matter.
- .9 Notify Engineer when bottom of excavation is reached.
- .10 Obtain Engineer approval of completed excavation.
- .11 Remove unsuitable material from trench bottom including those that extend below required elevations to extent and depth as directed by Engineer.

3.10 BEDDING AND  
SURROUND OF  
UNDERGROUND  
SERVICES

- .1 Place and compact granular material for bedding and surround of underground services as indicated.
- .2 Place bedding and surround material in unfrozen condition.

3.11 EXCAVATION OF  
ADDITIONAL  
CONTAMINATED SOIL

- .1 The excavation of contaminated soil is not limited to the designated excavation areas. It may also be required at other locations within the job site. The Engineer has the authority, at any time, to request the Contractor to excavate and remove additional contaminated soil in the manner described in these technical specifications.

3.12 BACKFILLING

- .1 Do not proceed with backfilling operations until completion of following:
  - .1 Engineer has inspected and approved installations;
  - .2 Engineer has inspected and approved of construction below finish grade;
  - .3 inspection, testing, approval, and recording location of underground utilities;
  - .4 removal of concrete formwork; and / or
  - .5 removal of shoring and bracing; backfilling of voids with satisfactory soil material.
- .2 Areas to be backfilled to be free from debris, snow, ice, water and frozen ground.
- .3 Do not use backfill material which is frozen or contains ice, snow or debris.
- .4 Compact the following materials to 95% Standard Proctor density:
  - .1 Type 1, 2 and 5 fill:
    - .1 Place backfill material in uniform layers not exceeding 150mm compacted thickness up to grades indicated. Compact each layer before placing succeeding layer.
  - .2 Type 3 fill:
    - .1 Place backfill material in uniform layers not exceeding 300mm compacted thickness up to grades indicated. Compact each layer before placing succeeding layer.

3.12 BACKFILLING  
(Cont'd)

- .4 (Cont'd)
  - .2 (Cont'd)
- .5 Use fill of types as indicated or specified below. Densities are percentages of maximum compaction densities obtained from corrected maximum dry density, unless otherwise indicated.
  - .1 Exterior side of perimeter walls:
    - .1 Use type 4 fill to subgrade level. Compact to 95%.
  - .2 Pavement substructures:
    - .1 Proof roll exposed subgrade to 100% Standard Proctor.
    - .2 Place type 1 base as indicated. Compact to 100%.
  - .3 Place type 3 fill in areas indicated. Compact to:
    - .1 85% under landscaped areas;
    - .2 95% under paved areas.
  - .4 Place type 6 fill (clear stone) in areas indicated. Compact to 70% relative density.
- .6 Backfilling around installations:
  - .1 Place bedding and surround material as specified elsewhere.
  - .2 Do not backfill around or over cast-in-place concrete within 24 hours after placing of concrete.
  - .3 Place layers simultaneously on both sides of installed Work to equalize loading.
  - .4 Where temporary unbalanced earth pressures are liable to develop on walls or other structures:
    - .1 Permit concrete to cure for minimum 14 days or until it has sufficient strength to withstand earth and compaction pressure and approval obtained from Engineer.
    - .2 If approved by Engineer, erect bracing or shoring to counteract unbalance, and leave in place until removal is approved by Engineer.

3.12 BACKFILLING  
(Cont'd)

- .6 (Cont'd)  
.4 (Cont'd)  
.7 Place unshrinkable fill in areas as indicated.  
.8 Consolidate and level unshrinkable fill with internal vibrators.  
.9 Install drainage, filter system in backfill as directed by Engineer.

3.13 COMPACTION TESTING

- .1 Contractor to allow access to the site for compaction testing by qualified third party contractor.  
.2 DND will pay the cost of compaction testing if the test is positive. If the test fails, the Contractor will pay for the cost of correcting the failure plus the cost of the initial test and additional testing until the test is positive.

3.14 HYDROCARBON  
IMPACTED MATERIAL  
REMOVAL AND DISPOSAL

- .1 Excavate, transport and dispose of hydrocarbon contaminated silt, sediment, organic matter and tank sludge to an approved site in accordance with Nova Scotia Environment regulations.  
.2 Separate contaminated soil from reusable soil. Supply non-porous tarp or equivalent to stockpile and / or cover contaminated soil from leaching into surrounding soils.  
.3 Where hydrocarbon has migrated into soil under existing roadway or wherever roadway needs to be removed to access contaminated soils, supply unit price for replacement of compacted gravel base course and roadway finish.  
.4 All trucks used in the transportation of hydrocarbon impacted material to have tail gates with seals in good working order so as to prevent leakage of sludge or liquid material from truck.  
.5 Contractor must ensure that truck box is watertight and no leakage occurs prior to or during transportation of material. Any vehicles failing to meet these requirements will be rejected.  
.6 In lieu of any spill during transportation, the Contractor will be responsible for the immediate clean-up and must notify the Engineer and appropriate authorities.  
.7 All trucks transporting hydrocarbon impacted material must be tarped using a Nicolow tarp (asphalt tarp) or approved equal.  
.8 All trucks must be cleaned at the soil disposal facility if not returning for reloading.



3.14 HYDROCARBON  
IMPACTED MATERIAL  
REMOVAL AND DISPOSAL  
(Cont'd)

.9 Contractor to be responsible for cleaning their own equipment.

3.15 RESTORATION

.1 Upon completion of Work, remove waste materials and debris, trim slopes, and correct defects as directed by Engineer.

.2 Replace topsoil as directed by Engineer.

.3 Reinstall lawns to elevation which existed before excavation.

.4 Reinstall pavements and sidewalks disturbed by excavation to thickness, structure and elevation which existed before excavation.

.5 Clean and reinstall areas affected by Work as directed by Engineer.

.6 Use temporary plating to support traffic loads over unshrinkable fill for initial 24 hours.

.7 Protect newly graded areas from traffic and erosion and maintain free of trash or debris.

PART 1 - GENERAL

1.1 REFERENCES

- .1 American National Standards Institute / American Water Works Association (ANSI/AWWA)
- .1 AWWA C104/A21.4, Cement-Mortar Lining for Ductile-Iron Pipe and Fittings for Water.
- .2 AWWA C105/A21.5, Polyethylene Encasement for Ductile-Iron Pipe Systems.
- .3 AWWA C110/A21.10, Ductile-Iron and Gray-Iron Fittings.
- .4 AWWA C111/A21.11, Rubber-Gasket Joints for Ductile-Iron Pressure Pipe and Fittings.
- .5 AWWA C150/A21.50, Thickness Design of Ductile-Iron Pipe.
- .6 AWWA C151/A21.51, Ductile-Iron Pipe, Centrifugally Cast, for Water.
- .7 AWWA C153/A21.53, Ductile-Iron Compact Fittings.
- .8 AWWA C200, Steel Water Pipe - 6 in. (150 mm) and Larger.
- .9 AWWA C203, Coal-Tar Protective Coatings and Linings for Steel Water Pipe.
- .10 AWWA C205, Cement-Mortar Protective Lining and Coating for Steel Water Pipe, 4 in. (100 mm) and Larger, Shop Applied.
- .11 AWWA C206, Field Welding of Steel Water Pipe.
- .12 AWWA C207, Steel Pipe Flanges for Waterworks Service, Sizes 4 in. Through 144 Inch (100 mm through 3,600 mm).
- .13 AWWA C208, Dimensions for Fabricated Steel Water Pipe Fittings.
- .14 AWWA C300, Reinforced Concrete Pressure Pipe, Steel-Cylinder Type.
- .15 AWWA C301, Prestressed Concrete Pressure Pipe, Steel-Cylinder Type.

1.1 REFERENCES  
(Cont'd)

- .1 (Cont'd)
  - .16 AWWA C303, Concrete Pressure Pipe, Bar-Wrapped, Steel-Cylinder Type.
  - .17 AWWA C500, Metal-Seated Gate Valves for Water Supply Service.
  - .18 AWWA C504, Rubber-Seated Butterfly Valves.
  - .19 AWWA C600, Installation of Ductile-Iron Water Mains and Their Appurtenances.
  - .20 AWWA C602, Cement-Mortar Lining of Water Pipelines - 4 in. (100 mm) and Larger.
  - .21 AWWA C651, Disinfecting Water Mains.
  - .22 AWWA C800, Underground Service Line Valves and Fittings.
  - .23 AWWA C900, Polyvinyl Chloride (PVC) Pressure Pipe and Fabricated Fittings, 4 in. Through 60 in. (100 mm Through 1,500 mm).
- .2 American Society for Testing and Materials International (ASTM)
  - .1 ASTM A53/A53M, Standard Specification for Pipe, Steel, Black and Hot Dipped, Zinc Coated, Welded and Seamless.
  - .2 ASTM A123/A123M, Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products.
  - .3 ASTM A307, Standard Specification for Carbon Steel Bolts, Studs, and Threaded Rod 60000 PSI Tensile Strength.
  - .4 ASTM B88M, Standard Specification for Seamless Copper Water Tube (Metric).
  - .5 ASTM C14M, Standard Specification for Nonreinforced Concrete Sewer, Storm Drain, and Culvert Pipe (Metric).
  - .6 ASTM C76M, Standard Specification for Reinforced Concrete Culvert, Storm Drain, and Sewer Pipe (Metric).
  - .7 ASTM C443M, Standard Specification for Joints for Concrete Pipe and Manholes, Using Rubber Gaskets (Metric).

1.1 REFERENCES

<u>(Cont'd)</u>	.2	(Cont'd)
	.8	ASTM C478M, Standard Specification for Circular Precast Reinforced Concrete Manhole Sections (Metric).
	.9	ASTM D3034, Standard Specification for Type PSM Poly (Vinyl Chloride) (PVC) Sewer Pipe and Fittings.
	.10	ASTM D3350, Standard Specification for Polyethylene Plastics Pipe and Fittings Materials.
	.11	ASTM F714, Standard Specification for Polyethylene (PE) Plastic Pipe (SDR-PR) Based on Outside Diameter.
	.3	American Water Works Association (AWWA) / Manual of Practice
	.1	AWWA M9, Concrete Pressure Pipe.
	.2	AWWA M11, Steel Water Pipe - A Guide for Design and Installation.
	.3	AWWA M17, Fire Hydrants: Installation, Field Testing, and Maintenance.
	.4	Canadian Standards Association (CSA International)
	.1	CSA A257 Series, Standards for Concrete Pipe and Manhole Sections.
	.2	CSA A3000, Cementitious Materials Compendium (Consists of A3001, A3002, A3003, A3004 and A3005).
	.3	CAN/CSA-B137 Series, Thermoplastic pressure piping compendium.
	.4	CSA B1800, Thermoplastic Nonpressure Piping Compendium.
	.5	CSA G30.18, Carbon steel bars for concrete reinforcement.
	.5	Department of Justice Canada (Jus)
	.1	Canadian Environmental Protection Act, 1999 (CEPA).
	.6	The Master Painters Institute (MPI)
	.1	Architectural Painting Specification Manual - current edition.

**1.1 REFERENCES**

**(Cont'd)**

- .7 Transport Canada (TC)
  - .1 Transportation of Dangerous Goods Act, 1992 (TDGA).
- .8 Underwriters' Laboratories of Canada (ULC)
  - .1 CAN/ULC-S520, Standard for Fire Hydrants.

**1.2 WORKMANSHIP**

- .1 All Work must be performed by skilled tradespersons and supervised by a competent supervisor at all times.

**1.3 SCHEDULING OF WORK**

- .1 Schedule Work to minimize interruptions to existing services.
- .2 Submit schedule of expected interruptions for approval and adhere to interruption schedule as approved by Engineer.
- .3 Notify Engineer minimum of 24 hours in advance of interruption in service.
- .4 Notify fire department of planned or accidental interruption of water supply to hydrants.
- .5 Provide and post "Out of Service" sign on hydrant not in use.
- .6 Advise military police department of anticipated interference with movement of traffic.

**1.4 GENERAL PIPING**

- .1 The type and size of pipes, valves and fittings will be shown on the drawings or as indicated by the Engineer.
- .2 All piping will match existing in quality and size unless otherwise indicated in writing by the Engineer.

**1.5 LICENSING AND  
CERTIFICATION**

- .1 The Backflow Prevention Device (BFD) testing will be done by a licensed BFD tester approved by the Halifax Regional Water Commission. The BFD device tester's license must be renewed on an annual basis.

PART 2 - PRODUCTS

2.1 PIPE, JOINTS AND  
FITTINGS

- .1 Ductile iron pipe:
  - .1 To AWWA C150/A21.50, AWWA C151/A21.51, and AWWA C153/A21.53, cement mortar lined to AWWA C104/A21.4.
- .2 Joints and fittings for ductile iron pipe:
  - .1 Joints:
    - .1 Push-on joints:
      - .1 To AWWA C111/A21.11.
    - .2 Rubber gasket for mechanical pipe joints:
      - .1 To AWWA C111/A21.11.
    - .3 Rubber gasket for flange pipe joints 1.6 mm thick:
      - .1 To AWWA C111/A21.11.
    - .4 Bolts, nuts, hex head with washers:
      - .1 To ASTM A307, heavy series.
    - .5 Ensure electrical conductivity across joints.
  - .2 Fittings:
    - .1 Mechanical joint cast iron and ductile iron fittings NPS 3 and larger:
      - .1 To AWWA C110/A21.10.
    - .2 Flanged cast iron fittings NPS 3 and larger: to
      - .1 To AWWA C110/A21.10.
    - .3 Compact Fittings:
      - .1 To AWWA C153/A21.53.
- .3 Polyvinyl chloride pressure pipe:

2.1 PIPE, JOINTS AND  
FITTINGS  
(Cont'd)

- .3 (Cont'd)
  - .1 Water distribution piping must conform to AWWA C900 DR 18 (Windsor Park). Fittings and joints to be compatible with piping system.
- .4 Polyvinyl chloride gravity sewer pipe:
  - .1 To ASTM D3034 SDR 28.
- .5 Reinforced concrete pipe:
  - .1 To CSA A257 Series.
  - .2 Pipe joints:
    - .1 Flanged to AWWA C207, push-on joints with performance requirements to AWWA C111/A21.11.
  - .3 Fitting joints:
    - .1 Flanged to AWWA C207, push-on joints with performance requirements to AWWA C111/A21.11.
  - .4 Pipe fittings:
    - .1 Reinforced concrete to AWWA C301 and AWWA C303.

2.2 PIPE PROTECTION

- .1 Provide means of protection for iron pipe in corrosive soils in accordance with local practices and authorities having jurisdiction.

2.3 VALVES AND VALVE  
BOXES

- .1 Valves to open counter clockwise .
- .2 Gate valves:
  - .1 To AWWA C500, valves with non-rising stems for buried and rising stems for above ground installation.
- .3 Underground type indicator valve where indicated. Indicator post to accurately indicate valve open or closed.
- .4 Any new valves installed underground must be equipped with compatible valve boxes.

2.3 VALVES AND VALVE  
BOXES  
(Cont'd)

- .4 (Cont'd)  
.1 Top of box to be marked "WATER"/"EAU". Top section must be adjustable to suit final grade.

2.4 BACKFILL MATERIAL

- .1 As indicated and in accordance with Section 31 23 33.01 - Excavating, Trenching and Backfilling.

PART 3 - EXECUTION

3.1 PREPARATION

- .1 Clean pipes, fittings, valves, hydrants, and appurtenances of accumulated debris and water before installation.  
.1 Inspect materials for defects to approval of Engineer.  
.2 Remove defective materials from site as directed by Engineer.

3.2 HYDROSTATIC AND  
LEAKAGE TESTING

- .1 Do tests in accordance with AWWA C600.  
.2 Provide labour, equipment and materials required to perform hydrostatic and leakage tests hereinafter described.  
.3 Notify Engineer at least 24 hours in advance of proposed tests.  
.1 Perform tests in presence of Engineer.  
.4 Where section of system is provided with concrete thrust blocks, conduct tests at least 5 days after placing concrete or 2 days if high early strength concrete is used.  
.5 Test pipeline in sections not exceeding 365 m in length, unless otherwise authorized by Engineer.  
.6 Upon completion of pipe laying and after Engineer has inspected Work in place, surround and cover pipes between joints with approved granular material placed as directed by Engineer.  
.7 Leave hydrants, valves, joints and fittings exposed.  
.8 When testing is done during freezing weather, protect hydrants, valves, joints and fittings from freezing.  
.9 Strut and brace caps, bends, tees, and valves, to prevent movement when test pressure is applied.



3.2 HYDROSTATIC AND  
LEAKAGE TESTING

(Cont'd)

- .10 Open valves.
- .11 Expel air from main by slowly filling main with potable water.
  - .1 Install corporation stops at high points in main where no air-vacuum release valves are installed.
  - .2 Remove stops after satisfactory completion of test and seal holes with plugs.
- .12 Thoroughly examine exposed parts and correct for leakage as necessary.
- .13 Examine exposed pipe, joints, fittings and appurtenances while system is under pressure.
- .14 Remove joints, fittings and appurtenances found defective and replace with new sound material and make watertight.
- .15 Repeat hydrostatic test until defects have been corrected.

3.3 PIPE SURROUND

- .1 Upon completion of pipe laying and after Engineer has inspected Work in place, surround and cover pipes as indicated.
- .2 Hand place surround material in uniform layers not exceeding 150 mm compacted thickness as indicated.
- .3 Place layers uniformly and simultaneously on each side of pipe.
- .4 Do not place material in frozen condition.
- .5 Compact each layer from pipe invert to mid height of pipe to at least 95% of corrected maximum dry density.

3.4 BACKFILL

- .1 Place backfill material, above pipe surround, in uniform layers not exceeding 150 mm compacted thickness up to grades as indicated.
- .2 Do not place backfill in frozen condition.
- .3 Under paving and walks, compact backfill to at least 95% corrected maximum dry density.
  - .1 In other areas, compact to at least 90% corrected maximum dry density.

- |                                 |    |   |
|---------------------------------|----|---|
| <u>3.5 HYDRANT FLOW TESTS</u>   | .1 | Conduct flow tests on every hydrant to determine fire flows prior to painting hydrant caps and ports.               |
| <u>3.6 PAINTING OF HYDRANTS</u> | .1 | After installation, paint hydrants red.   |
|                                 | .2 | After hydrant flow tests, paint caps and ports to meet colour selections approved by authority having jurisdiction. |
| <u>3.7 SURFACE RESTORATION</u>  | .1 | After installing and backfilling over water mains, restore surface to original condition as directed by Engineer.   |
| <u>3.8 CLEANING</u>             | .1 | Proceed in accordance with Section 01 74 11 Cleaning.   |
|                                 | .2 | Perform cleaning after installation to remove construction and accumulated environmental dirt.                      |
|                                 | .3 | Upon completion of installation, remove surplus materials, rubbish, tools and equipment barriers.                   |