



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
Bid Fax: (902) 496-5016

Revision to a Request for a Standing Offer

Révision à une demande d'offre à commandes

Regional Individual Standing Offer (RISO)
Offre à commandes individuelle régionale (OCIR)

The referenced document is hereby revised; unless otherwise indicated, all other terms and conditions of the Offer remain the same.

Ce document est par la présente révisé; sauf indication contraire, les modalités de l'offre demeurent les mêmes.

Comments - Commentaires

THIS DOCUMENT CONTAINS A SECURITY
REQUIREMENT

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

Title - Sujet Repair & Replace Windows and Doors	
Solicitation No. - N° de l'invitation W6837-155525/A	Date 2015-12-09
Client Reference No. - N° de référence du client W6837-15-5525	Amendment No. - N° modif. 001
File No. - N° de dossier HAL-5-75161 (220)	CCC No./N° CCC - FMS No./N° VME
GETS Reference No. - N° de référence de SEAG PW-\$HAL-220-9703	
Date of Original Request for Standing Offer Date de la demande de l'offre à commandes originale 2015-12-09	
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2016-01-19	
Address Enquiries to: - Adresser toutes questions à: Dunphy, Nancy	Buyer Id - Id de l'acheteur hal220
Telephone No. - N° de téléphone (902) 496-5481 ()	FAX No. - N° de FAX (902) 496-5016
Delivery Required - Livraison exigée	
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction:	
Security - Sécurité This revision does not change the security requirements of the Offer. Cette révision ne change pas les besoins en matière de sécurité de la présente offre.	

Instructions: See Herein

Instructions: Voir aux présentes

Acknowledgement copy required	Yes - Oui	No - Non
Accusé de réception requis	<input type="checkbox"/>	<input type="checkbox"/>
The Offeror hereby acknowledges this revision to its Offer. Le proposant constate, par la présente, cette révision à son offre.		
Signature	Date	
Name and title of person authorized to sign on behalf of offeror. (type or print) Nom et titre de la personne autorisée à signer au nom du proposant. (taper ou écrire en caractères d'imprimerie)		
For the Minister - Pour le Ministre		

Department of National Defence



Specification

Standing Offer Agreement

Repair/Replace Windows and Doors

CFB Halifax, NS

Job No.W6837-15-5525

2015-04-16

<u>Section</u>	<u>Title</u>	<u>Pages</u>
<u>Division 01 - General Requirements</u>		
01 11 00	General Instructions	8
01 35 30	Health and Safety Requirements	0
01 35 35	DND Fire Safety Requirements	0
01 35 36	Security, Safety and Fire Regulations CFAD Bedford, NS	0
01 35 37	Access to DRDC Atlantic Complex	0
01 61 00	Common Product Requirements	0
01 74 11	Cleaning	2
<u>Division 08 - Openings</u>		
08 50 00	Windows and Doors	5

PART 1 - GENERAL

- 1.1 RELATED SECTIONS .1 Section 01 61 00 Common Product Requirements.
- .2 Section 08 50 00 Windows and Doors.
- 1.2 DESCRIPTION OF WORK .1 Work under this Standing Offer Agreement comprises the furnishing of all labour, materials, tools, equipment, transportation and supervision required to carry out repairs or replacement of windows and doors to various buildings of CFB Halifax as specified herein.
- 1.3 ENGINEER .1 All reference to the Engineer in this specification refers to the Contract Inspector which is representing the Real Property Operations Unit (Atlantic).
- .2 The Engineer will provide the Contractor with a list of his / her authorized representatives at the pre-job meeting.
- 1.4 WORK INCLUDED .1 Work included in this Standing Offer Agreement includes but not limited to the following:
- .1 the repair / replacement of various types of windows as required;
 - .2 the repair / replacement of various types of doors as required, to include:
 - .1 automatic door openers and associated controls;
 - .3 hardware replacement as required;
 - .4 as required, perform necessary modifications to accommodate new installs;
 - .5 refinish surfaces to match adjacent finishes;
 - .6 caulking of the doors and windows;
 - .7 remove and dispose waste and construction debris off DND property;
 - .8 provide an emergency repair service;
 - .9 for new installs, supply the Engineer with product data sheets and / or manufacturer's sheets; and
 - .10 cleanup.
-

1.5 WORK NOT
INCLUDED

- .1 The following types of work will not be requested under this Standing Offer Agreement:
- .1 overhead doors; and
 - .2 doors security access controls.

1.6 LOCATIONS OF JOB
SITES

- .1 Areas covered under this specification include but not limited to the following locations:
- .1 Stadacona - Halifax, NS;
 - .2 Windsor Park - Halifax, NS;
 - .3 Willow Park - Halifax, NS;
 - .4 HMC Dockyard - Halifax, NS;
 - .5 Halifax Armoury - Halifax, NS;
 - .6 Royal Artillery (RA) Park - Halifax, NS;
 - .7 Damage Control Division - Herring Cove, NS;
 - .8 Dockyard Annex (NAD) - Dartmouth, NS;
 - .9 DRDC Atlantic - Dartmouth, NS;
 - .10 Wright's Cove Degaussing Range - Dartmouth, NS;
 - .11 12 Wing Shearwater - Eastern Passage, NS;
 - .12 Osbourne Head Gunnery Range - Cow Bay, NS;
 - .13 Hartlen Point Golf Course - Cow Bay, NS;
 - .14 CFAD Bedford - Bedford, NS;
 - .15 Bedford Rifle Range - Bedford, NS;
 - .16 Bedford Commons - Bedford, NS;
 - .17 Ferguson's Cove - Ferguson's Cove, NS;
 - .18 NRS Mill Cove - Mill Cove, NS;
 - .19 NRS Newport Corner - Newport Corner, NS;
 - .20 Windsor Armoury - Windsor, NS; and
 - .21 Debert and outlying areas - Debert, NS.

-
- 1.7 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.
- 1.8 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.
- 1.9 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.
- 1.10 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.
- 1.11 CONTRACTOR 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.
-

-
- 1.11 CONTRACTOR USE OF SITE (Cont'd)
- .4 The Engineer will brief the Contractor on access to restricted areas.
 - .5 Remove or alter existing work to prevent injury or damage to portions of existing work which remain.
 - .6 Repair or replace portions of existing work which have been altered during construction operations to match existing or adjoining work, as directed by Engineer.
 - .7 At completion of operations condition of existing work: equal to or better than that which existed before new work started.
- 1.12 PARKING
- .1 In limited areas, a parking space will be made available on site for Contractor vehicles to drop off equipment and supplies. The Contractor will maintain and administer this space as directed.
 - .2 The Contractor will have to pay for parking at the following locations:
 - .1 Stadacona - Halifax, NS;
 - .2 Windsor Park - Halifax, NS;
 - .3 Willow Park - Halifax, NS;
 - .4 RA Park - Halifax, NS;
 - .5 HMC Dockyard - Halifax, NS; and
 - .6 Dockyard Annex (NAD) - Dartmouth, NS.
- 1.13 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.
 - .2 Owner will occupy premises during entire construction period for execution of normal operations.
 - .3 Co-operate with Owner in scheduling operations to minimize conflict and to facilitate Owner usage.
- 1.14 CODES AND STANDARDS
- .1 Perform work in accordance with the latest edition of the National Building Code of Canada (NBC), Canadian Electrical Code Part 1, Canada Labour Code Part II, National Fire Code of Canada (NFCC) and any other provincial and local code applicable. In any case of conflict or discrepancy, the more stringent requirements will apply.
-

1.14 CODES AND
STANDARDS
(Cont'd)

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

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 Contract, provide temporary means to maintain security.
- .3 Provide temporary dust screens, barriers, warning signs in locations where renovation and alteration work is adjacent to areas used by public or government staff.
- .4 Use only elevators, existing in building for moving workers and material.
 - .1 Protect walls of passenger elevators, to approval of Engineer prior to use.
 - .2 Accept liability for damage, safety of equipment and overloading of existing equipment.

1.16 EXISTING
SERVICES

- .1 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. Carry out work at times as directed by governing authorities with minimum of disturbance to pedestrian and tenant operations.
- .2 Provide alternative routes for personnel, pedestrian and vehicular traffic.
- .3 Establish location and extent of service lines in area of work before starting Work. Notify Engineer of findings.
- .4 Submit schedule to and obtain approval from Engineer for any shutdown or closure of active service or facility. Adhere to approved schedule and provide notice to affected parties.
- .5 Provide temporary services when directed by Engineer to maintain critical building and tenant systems.
- .6 Where unknown services are encountered, immediately advise Engineer and confirm findings in writing.
- .7 Protect, relocate or maintain existing active services. When inactive services are encountered, cap off in manner approved by authorities having jurisdiction.

1.17 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 Contractor's 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.

1.18 CUTTING, FITTING
AND PATCHING

- .1 Execute cutting, 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 existing work.
- .3 Obtain Engineer's approval before cutting, boring or sleeving load-bearing members.
- .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. If power and water cannot be provided by DND, it will be the Contractor's responsibility to provide his / her own power and water to perform the Work under this Standing Offer Agreement.
- .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.

-
- 1.19 POWER AND WATER SUPPLY
(Cont'd)
- .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
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 surface;
 - .4 provide ambient temperatures and humidity levels for storage, installation and curing of materials;
 - .5 provide adequate ventilation to meet health regulations for safe working environment.
- .2 Maintain strict supervision of operation of temporary heating and ventilating equipment to:
- .1 conform with applicable codes and standards;
 - .2 enforce safe practices;
 - .3 prevent abuse of services;
 - .4 prevent damages to finishes;
 - .5 vent direct-fired combustion units to outside.
- 1.21 EMERGENCY AND SERVICE CALL-UPS
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 hour, 7 days per week basis. If the request for the 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: 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.
-

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

- .1 (Cont'd)
- .1 (Cont'd)
- .1 Standard response times: ASAP - maximum 2 hours.
- .2 Routine: 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: 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.

1.22 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.

1.23 REPORTING
IRREGULARITIES

- .1 The Contractor must notify the Engineer of irregularities in the work area, such as 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 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
 - .3 most recent amendments to the National Building Code of Canada, Part 8 and National Fire 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.
 - .5 The following disciplinary measures will be taken for any violations of safety under this Standing Offer Agreement:
 - .1 **First Violation:** 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, DCC or PWGSC).
 - .2 **Second Violation:** Written warning to Contractor for second violation of a safety regulation (Violation will be documented on Standing Offer file, copy to Contractor, DCC or PWGSC).
 - .3 **Third Violation:** 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 Unit (Atlantic) contracts (Documented to Standing Offer file, copies to Contractor, DCC or PWGSC).
-

1.2 HAZARD
ASSESSMENTS
(Cont'd)

- .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 AND
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;
 - .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;

-
- 1.4 HAZARDOUS MATERIAL SPILL (Cont'd)
- .2 (Cont'd)
 - .5 (Cont'd)
 - .2 company; and
 - .3 telephone number.
 - .6 contain the spill;
 - .7 isolate the area as required;
 - .8 contact the Engineer; and
 - .9 clean up minor spills using appropriate protective equipment and supplies.
- 1.5 FASTENING DEVICES EXPLOSIVE ACTUATED
- .1 Explosive actuated devices must not be 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 Dockyard fire hall at 427-3500.
 - .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.
-

1.7 CONFINED SPACES
(Cont'd)

- .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.

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.
- .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 CAN/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 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 fourteen (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

3.1 NOT USED .1 Not used.

PART 1 - GENERAL

- 1.1 EMERGENCY REPORTING
- .1 Telephone numbers:
 - .1 Base phone: dial 9-1-1;
 - .2 cell phone: 902-427-3333.
- 1.2 FIRE SAFETY ENFORCEMENT
- .1 Within the confines of 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 (NFCC), including all subsequent revisions issued by the National Research Council of Canada.
 - .3 The Engineer reserves the right to require the dismissal from site of persons deemed careless or otherwise in violation of the fire safety requirements.
- 1.3 FIRE SAFETY BRIEFING
- .1 Prior to commencement of work under this Standing Offer, 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.
 - .2 The Engineer will provide direction for reporting of fire including the emergency telephone number for fire reporting and location of fire alarms within or adjacent to work area.
- 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 Dockyard Fire Hall at the time of issuance of the hot work permit.
- 1.5 FIRE EXTINGUISHERS
- .1 Supply fire extinguishers, as prescribed 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.
-

1.6 SMOKING
PRECAUTIONS
(Cont'd)

- .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 and 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 Persons activating fire alarm box will remain at box to direct Fire Department to the scene of fire.
- .3 When reporting fire by telephone, give location of fire, name or number of building and be prepared to direct Fire Department to the scene of 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 firefighting 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 Base Fire Chief, erecting of barricades and digging of trenches.

1.10 RUBBISH AND
WASTE MATERIALS

- .1 Storage:
 - .1 Where it is necessary to store oily waste in work areas exercise extreme care to ensure maximum cleanliness and safety.
 - .2 Deposit greasy or oily rags and materials subject to spontaneous combustion in approved receptacles approved by the Base Fire Chief and remove as directed by the Engineer.
- .2 Burning of rubbish is prohibited.
- .3 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 45 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 45 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 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.
- .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 , 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 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:** 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:** 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:** 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:** 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:** 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:
-

1.9 PROHIBITED
ARTICLES
(Cont'd)

- .1 (Cont'd)
- .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 (e.g. 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
REGULATIONS

- .1 **Smoking:** Is strictly prohibited in explosive areas.
- .2 **Buildings:** Smoking is prohibited in all buildings.
- .3 **Safety Precautions Electrical / Electronic Equipment:** All personnel operating or maintaining electrical / electronic equipment involving the use of voltage higher than 50V 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:** 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.
-

1.11 TRAFFIC
REGULATIONS
(Cont'd)

- .1 (Cont'd)
- .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.
- .7 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:** 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:** 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 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 RELATED REQUIREMENTS
- .1 Section 01 11 00 General Instructions.
 - .2 Section 08 50 00 Windows and Doors.
- 1.2 QUALITY
- .1 Products, materials, equipment and articles incorporated in Work must be new, not damaged or defective, and of best quality for purpose intended. If requested, furnish evidence as to type, source and quality of products provided.
 - .2 Defective products, whenever identified prior to completion of Work, will be rejected, regardless of previous inspections. Inspection does not relieve responsibility, but is precaution against oversight or error. Remove and replace defective products at own expense and be responsible for delays and expenses caused by rejection.
 - .3 Should disputes arise as to quality or fitness of products, decision rests strictly with Engineer based upon requirements of Standing Offer documents.
 - .4 Unless otherwise indicated in specifications, maintain uniformity of manufacture for any particular or like item throughout building.
 - .5 Permanent labels, trademarks and nameplates on products are not acceptable in prominent locations, except where required for operating instructions, or when located in mechanical or electrical rooms.
- 1.3 AVAILABILITY
- .1 Immediately upon signing Contract, review product delivery requirements and anticipate foreseeable supply delays for items. If delays in supply of products are foreseeable, notify Engineer of such, in order that substitutions or other remedial action may be authorized in ample time to prevent delay in performance of Work.
 - .2 In event of failure to notify Engineer at commencement of Work and should it subsequently appear that Work may be delayed for such reason, Engineer reserves right to substitute more readily available products of similar character, at no increase in Contract Price or Contract Time.
- 1.4 STORAGE, HANDLING AND PROTECTION
- .1 Handle and store products in manner to prevent damage, adulteration, deterioration and soiling and in accordance with manufacturer's instructions when applicable.
-

1.4 STORAGE,
HANDLING AND
PROTECTION
(Cont'd)

- .2 Store packaged or bundled products in original and undamaged condition with manufacturer's seal and labels intact. Do not remove from packaging or bundling until required in Work.
- .3 Store products subject to damage from weather in weatherproof enclosures.
- .4 Store sheet materials and lumber on flat, solid supports and keep clear of ground. Slope to shed moisture.
- .5 Store and mix paints in heated and ventilated room. Remove oily rags and other combustible debris from site daily. Take every precaution necessary to prevent spontaneous combustion.
- .6 Remove and replace damaged products at own expense and to satisfaction of Engineer.
- .7 Touch-up damaged factory finished surfaces to Engineer's satisfaction. Use touch-up materials to match original. Do not paint over name plates.

1.5 TRANSPORTATION

- .1 Pay costs of transportation of products required in performance of Work.
- .2 Transportation cost of products supplied by Owner will be paid for by Engineer. Unload, handle and store such products.

1.6 MANUFACTURER'S
INSTRUCTIONS

- .1 Unless otherwise indicated in specifications, install or erect products in accordance with manufacturer's instructions. Do not rely on labels or enclosures provided with products. Obtain written instructions directly from manufacturers.
- .2 Notify Engineer in writing, of conflicts between specifications and manufacturer's instructions, so that Engineer will establish course of action.
- .3 Improper installation or erection of products, due to failure in complying with these requirements, authorizes Engineer to require removal and re-installation at no increase in Contract Price or Contract Time.

1.7 CO-ORDINATION

- .1 Ensure co-operation of workers in laying out Work. Maintain efficient and continuous supervision.
- .2 Be responsible for coordination and placement of openings, sleeves and accessories.

- 1.8 REMEDIAL WORK .1 Perform remedial work required to repair or replace parts or portions of Work identified as defective or unacceptable. Co-ordinate adjacent affected Work as required.
- .2 Perform remedial work by specialists familiar with materials affected. Perform in a manner to neither damage nor put at risk any portion of Work.
- 1.9 LOCATION OF FIXTURES .1 Consider location of fixtures, outlets, and mechanical and electrical items indicated as approximate.
- .2 Inform Engineer of conflicting installation. Install as directed.
- 1.10 FASTENINGS .1 Provide metal fastenings and accessories in same texture, colour and finish as adjacent materials, unless indicated otherwise.
- .2 Prevent electrolytic action between dissimilar metals and materials.
- .3 Use non-corrosive hot dip galvanized steel fasteners and anchors for securing exterior work, unless stainless steel or other material is specifically requested in affected specification Section.
- .4 Space anchors within individual load limit or shear capacity and ensure they provide positive permanent anchorage. Wood, or any other organic material plugs are not acceptable.
- .5 Keep exposed fastenings to a minimum, space evenly and install neatly.
- .6 Fastenings which cause spalling or cracking of material to which anchorage is made are not acceptable.
- 1.11 PROTECTION OF WORK IN PROGRESS .1 Prevent overloading of parts of building. Do not cut, drill or sleeve load bearing structural member, unless specifically indicated without written approval of Engineer.
- 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 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 Dispose of waste materials and debris off site.
- .5 Clean interior areas prior to start of finishing work, and maintain areas free of dust and other contaminants during finishing operations.
- .6 Store volatile waste in covered metal containers, and remove from premises at end of each working day.
- .7 Provide adequate ventilation during use of volatile or noxious substances. Use of building ventilation systems is not permitted for this purpose.
- .8 Use only cleaning materials recommended by manufacturer of surface to be cleaned, and as recommended by cleaning material manufacturer.
- .9 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 Prior to final review remove surplus products, tools, construction machinery and equipment.
 - .4 Remove stains, spots, marks and dirt from decorative work, electrical and mechanical fixtures, furniture fitments, walls, and floors.
 - .5 Inspect finishes, fitments and equipment and ensure specified workmanship and operation.
-

- | | | |
|--------------------------------------------------|----|-------------------------------------------------------------------------------------------------------------------------------|
| <u>1.2 FINAL CLEANING
(Cont'd)</u> | .6 | Broom clean and wash exterior walks, steps and surfaces; rake clean other surfaces of grounds. |
| | .7 | Remove dirt and other disfiguration from exterior surfaces. |
| | .8 | Sweep and wash clean paved areas. |
| <u>1.3 WASTE
MANAGEMENT AND
DISPOSAL</u> | .1 | Do not bury rubbish or waste materials. |
| | .2 | Do not dispose of waste, volatile materials, mineral spirits, oil or paint thinner inot waterways, storm, or sanitary sewers. |
| | .3 | Remove materials from deconstruction as deconstruction / disassembly Work progresses. |
| | .4 | Handle waste materials not reused, salvaged, or recycled in accordance with appropriate regulations and codes. |

PART 2 - PRODUCTS

- | | | |
|---------------------|----|-----------|
| <u>2.1 NOT USED</u> | .1 | Not used. |
|---------------------|----|-----------|

PART 3 - EXECUTION

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

PART 1 - GENERAL

- 1.1 RELATED REQUIREMENTS .1 Section 01 11 00 General Instructions.
.2 Section 01 61 00 Common Product Requirements.
- 1.2 REFERENCES .1 CSA International
.1 CSA A440/A440.1, A440, Windows / Special Publication, A440.1, User Selection Guide to CSA Standard A440.
.2 CSA A440.4, Window, Door and Skylight Installation.
.2 National Fire Protection Association (NFPA)
.1 NFPA 80, Standard for Fire Doors and other Opening Protectives.
.3 Canadian Steel Door Manufacturer's Association (CSDMA).
- 1.3 GENERAL STEEL DOOR INSTALLATION .1 Install labelled steel fire rated doors and frames to NFPA 80 except where specified otherwise.
.2 Install doors and frames to CSDMA Installation Guide.
- 1.4 PERMITS .1 The Contractor must obtain any permits required by any other non-DND authority that are necessary to complete the Work.
.2 The Contractor must pay all costs associated with permits required.
- 1.5 SUBMITTALS .1 The Contractor must submit a written request in advance of cutting or alteration which affects:
.1 structural integrity of any element of the project;
.2 visual qualities of sight-exposed elements;
.3 work of owner or separate Contractor;
.4 description of proposed work, and products to be used;
.5 alternatives to cutting and patching;
.6 written permission of affected separate Contractor; and
-

<u>1.5 SUBMITTALS</u> <u>(Cont'd)</u>	.1	(Cont'd)
	.7	date and time work will be executed.
<u>1.6 COLOURS AND</u> <u>SAMPLES</u>	.1	Provide samples of all materials proposed for the work, in finish and colours specified, as requested by the Engineer.
	.2	Colours must be as indicated on the PWGSC 942 "Call-up Against a Standing Offer".
<u>PART 2 - PRODUCTS</u>		
<u>2.1 MATERIALS</u>	.1	Materials: To CSA A440/A440.1 supplemented as follows:
	.1	All windows by same manufacturer.
<u>2.2 ENAMEL COATING</u>	.1	Enamel coating: In accordance with CSA A440/A440.1, including appendices, supplemented as follows:
	.1	Standard colour to match aluminum or steel doors and frames, colour to match Engineer's sample.
<u>2.3 VINYL FINISHES</u>	.1	Vinyl finishes: In accordance with CSA A440/A440.1, including appendices, supplemented as follows:
	.1	Colour to match Engineer's sample.
<u>2.4 ISOLATION COATING</u>	.1	Primers, paints and coatings: In accordance with manufacturer's recommendations for surface conditions.
	.2	Isolate aluminum from following components, by means of isolation coating:
	.1	dissimilar metals except stainless steel, zinc, or white bronze of small area;
	.2	concrete, mortar and masonry; and
	.3	wood.
<u>2.5 GLAZING</u>	.1	Glaze windows in accordance with CSA A440/A440.1.
<u>2.6 WINDOW</u> <u>HARDWARE</u>	.1	Hardware: Stainless steel or white bronze sash locks and aluminum handles to provide security and permit easy operation of units.

2.6 WINDOW
HARDWARE
(Cont'd)

- .2 Locks: Provide operating sash with spring loading locking device, to provide automatic locking in closed position.
- .3 Where windows latching devices are located in excess of 1900 mm above floor level:
 - .1 Equip horizontal or vertical sliding units with hardware or design sash to permit pole opening.
 - .2 Equip projected or casement units with underscreen stay bar assembly and roto operators with locking handle.

2.7 AIR BARRIER AND
VAPOUR RETARDER

- .1 Equip window frames with factory and site installed air barrier and vapour retarder material for sealing to building air barrier and vapour retarder as follows:
 - .1 Material: Identical to, or compatible with, building air barrier and vapour retarder materials to provide required air tightness and vapour diffusion control throughout exterior envelope assembly.
 - .2 Material width: Adequate to provide required air tightness and vapour diffusion control to building air barrier and vapour retarder from interior.

PART 3 - EXECUTION

3.1 PREPARATION

- .1 Inspect existing conditions, including elements subject to damage or movement during cutting and patching.
- .2 After uncovering, inspect conditions affecting performance of work.
- .3 Beginning of cutting or patching means acceptance of existing conditions.
- .4 Provide supports to assure structural integrity of surroundings; provide devices and methods to protect other portions of project from damage.

3.2 WINDOW AND
DOOR INSTALLATION

- .1 Install in accordance with CSA A440/A440.1 and CSA A440.4.
- .2 Arrange components to prevent abrupt variation in colour.
- .3 Fit several parts together to integrate with other work.
- .4 Execute cutting, fitting, and patching to complete work.
- .5 Uncover work to install ill-timed work.

3.2 WINDOW AND
DOOR INSTALLATION
(Cont'd)

- .6 Remove and replace defective and non-conforming work.
- .7 Remove samples of installed work for testing if directed by Engineer.
- .8 Provide openings in non-structural elements for penetrations of mechanical and electrical work.
- .9 Execute work by methods to avoid damage to other work, and which will provide proper surfaces to receive patching and finishing.
- .10 Employ original installer to perform cutting and patching for moisture-resistant elements, and sight-exposed surfaces.
- .11 Cut rigid materials using masonry saw or core drill. Pneumatic or impact tools are not allowed on masonry work without prior approval.
- .12 Restore work with new products in accordance with requirements of Contract documents.
- .13 Fit work to pipes, sleeves, ducts, conduit, and other penetrations through surfaces to the satisfaction of Engineer.
- .14 At penetration of fire rated wall, ceiling or floor construction, completely seal voids with firestopping material, full thickness of the construction element.
- .15 Refinish surfaces to match adjacent finishes;
 - .1 Continuous surfaces: Refinish to nearest intersection.
 - .2 For an assembly: Refinish entire unit.
- .16 Caulking:
 - .1 Caulk perimeter of doors and windows between frame and adjacent material.

3.3 REJECTED WORK

- .1 Remove defective work, whether result of poor workmanship, use of defective products or damage and whether incorporated in work or not, which has been rejected by Engineer as failing to conform to Standing Offer documents.
- .2 Make good other Contractor's work damaged by such removals or replacements promptly.

3.3 REJECTED WORK
(Cont'd)

- .3 If in the opinion of Engineer it is not expedient to correct defective work or work not performed in accordance with Standing Offer documents, owner may deduct from Contract price difference in value between work performed and that called for by Contract documents, amount of which will be determined by Engineer.

3.4 PROTECTION

- .1 Protect installed products and components from damage during construction.
- .2 Repair damage to adjacent materials caused by window or door installation.