

1.1 DESCRIPTION OF WORK

- .1 In general, work under this contract consists of selected demolitions and replacements at the CFIA Laboratory, in Dartmouth, N.S. The work is generally described as follows:
 - .1 Removal of the existing metal composite wall panels on the barrel vault roof and on exterior walls where indicated on the architectural drawings, and replacement with new metal composite panel cladding.
 - .2 Removal of existing PVC roof assembly on the flat roof and replacement with new PVC roof assembly.
 - .3 New structural steel framed canopy over loading dock area.
 - .4 Provision of new, larger capacity emergency generator, including:
 - .1 Installation of new concrete slab-on-grade for new generator and associated electrical equipment.
 - .2 Installation of new concrete retaining wall.
 - .3 Associated landscape work and re-grading in area of new generator and new slab-on-grade.
 - .4 Removal of existing emergency generator, and associated electrical equipment, from inside the building once the new generator is commissioned and operating.
 - .5 Infill of opening in the interstitial floor space above the emergency generator (which is being removed).
 - .4 Renovations to the vacated generator room to convert the space to a Maintenance Workshop, including but not limited to new cabinetwork, new epoxy flooring and other new finishes.
 - .5 Commissioning of the new replacement generator and associated electrical equipment.
 - .6 Including all other work indicated on the drawings and/or required in the specifications.
- .2 Site of Work is at: 1992 Agency Drive, Dartmouth, N.S.

1.2 FAMILIARIZATION WITH SITE

- .1 Before submitting a bid, bidders are required to visit the site to review and verify the form, nature and extent of the work, materials needed, the means of access and the temporary facilities required to perform the Work.
- .2 A mandatory, escorted site visit for bidders will be scheduled during the tendering period. The date and time for the mandatory site visit will be advertised to all registered bidders.
- .3 No other visits to the site by bidders will be permitted due to Facility security

1.3 CODES AND STANDARDS

- .1 Perform work in accordance with the 2010 National Building Code of Canada and any other code of provincial or local application, including all amendments up to bid closing date, provided that in any case of conflict or discrepancy, the more stringent requirement(s) shall apply.

- .2 Materials and workmanship must meet or exceed requirements of specified standards, codes and referenced documents.

1.4 INTERPRETATION OF DOCUMENTS

- .1 Supplementary to the Order of Precedence article of the General Conditions of the Contract, the Division 01 sections take precedence over the technical specification sections in other Divisions of the Specification Manual.

1.5 TERM ENGINEER

- .1 Unless specifically stated otherwise, the term Engineer or Architect where used in the Specifications and on the Drawings shall mean the Departmental Representative as defined in the General Conditions of the Contract.

1.6 SETTING OUT WORK

- .1 Assume full responsibility for and execute complete layout of work to locations, lines and elevations indicated.
- .2 Provide devices needed to lay out and construct work.
- .3 Supply such devices as straight edges and templates required to facilitate Departmental Representative's inspection of work.
- .4 Supply stakes and other survey markers required for laying out work.

1.7 COST BREAKDOWN

- .1 Before submitting first progress claim submit breakdown of Contract price in detail as directed by Departmental Representative and aggregating contract price.
 - .1 Cost Breakdown to clearly separate costs attributed to each of the three major areas of the project work.
 - .2 Indicate CFIA's project numbers for each of the three areas of work:
 - .1 H0013 - Wall Cladding Replacement,
 - .2 H0014 - Generator Replacement.
 - .3 H0015 - Roof Replacement.
 - .3 Required forms will be provided for application of progress payment.
- .2 Together with the Contract Cost Breakdown, provide a Cash Flow Projection in MS Project or Excel which identified the total contract price and monthly cash flow projection over the duration of the contract.
 - .1 Ensure the Cash Flow Projection follows the attribution of costs to the three major areas of the project work identified in Item 1.7.1 above.
- .3 List items of work numerically following the same division/section number system of the specification manual and thereafter sub-divide into major work components and building systems as directed by Departmental Representative.

- .4 Upon approval, cost breakdown will be used as basis for progress payment.

1.8 DOCUMENTS REQUIRED

- .1 Maintain at job site, one copy each of the following:
 - .1 Contract Drawings.
 - .2 Specifications.
 - .3 Addenda.
 - .4 Reviewed Shop Drawings.
 - .5 List of outstanding Shop Drawings.
 - .6 Change Orders.
 - .7 Other modifications to Contract.
 - .8 Field Test Reports.
 - .9 Copy of Approved Work Schedule.
 - .10 Health and Safety Plan and other safety related documents.
 - .11 Other documents as stipulated elsewhere in the Contract Documents.

1.9 PERMITS

- .1 In accordance with the General Conditions, obtain and pay for building permit, certificates, licenses and other permits as required by municipal, provincial and federal authorities.
- .2 Provide appropriate notifications of project to municipal and provincial inspection authorities.
- .3 Obtain compliance certificates as prescribed by legislative and regulatory provisions of municipal, provincial and federal authorities as applicable to the performance of work.
- .4 Submit to Departmental Representative, copy of application forms and approval documents received for above referenced authorities.

1.10 ALTERNATIONS, ADDITIONS OR REPAIRS TO EXISTING BUILDING

- .1 The building will be fully occupied and operational for the entire duration of the work. Execute work with least possible interference or disturbance to building operations, occupants, public and normal use of premises. Arrange with Departmental Representative to facilitate execution of work.
- .2 Schedule required access to interior spaces by arrangement with Departmental Representative.
- .3 Include in the site-specific Health & Safety Plan, specified in Section 01 35 29 – Health and Safety Requirements, provisions for protecting building occupants and the public from all potential hazards caused by the Work, including but not limited to, protection against falling objects, hoarding around hoisting equipment and other provisions as necessary to provide complete protection from all potential hazards.

- .4 Provide temporary weather-tight barriers and enclosures as necessary to ensure the complete weather-tightness of the exterior envelope at all times. Refer to Section 01 50 00 – Temporary Facilities.
- .5 Provide temporary dust screens, barriers, warning signs in locations where renovation and alteration work is adjacent to areas which will be operative during such work.
- .6 Contractor's use of the site for operations area and materials storage yard is limited to an area indicated on the Drawings. Refer to architectural drawings. Refer also to requirements described in Section 01 50 00 – Temporary Facilities.
- .7 Where security has been reduced by work of Contract, provide temporary means to maintain security.
- .8 Existing building elevators are not available for the Contractor's use.
- .9 Note that laboratories and office spaces adjacent to Areas of Work may have ongoing work that may be affected by dust, vibration, noise, power interruptions, etc. Coordinate work to be undertaken at the start of each week with Departmental Representative.

1.11 ROUGHING-IN

- .1 Be responsible for obtaining manufacturer's literature and for correct roughing-in and hook-up of equipment, fixtures and appliances.

1.12 CUTTING, FITTING AND PATCHING

- .1 Ensure that cutting and patching required by all trades is included in total bid price submitted for the work.
- .2 Execute cutting, fitting and patching required to make work fit properly.
- .3 Where new work connects with existing and where existing work is altered, cut, patch and make good to match existing work. This includes patching of openings in existing work resulting from removal of existing services.
- .4 Do not cut, bore, or sleeve load-bearing members, except where specifically approved by Departmental Representative.
- .5 Make cuts with clean, true, smooth edges. Make patches inconspicuous in final assembly.
- .6 Fit work airtight to pipes, sleeves ducts and conduits.

1.13 CONCEALMENT

- .1 Conceal pipes, conduits, wiring etc. in floor, wall and ceiling construction of finished areas except where indicated otherwise.

1.14 LOCATION OF FIXTURES

- .1 Location of equipment, fixtures and outlets, shown or specified shall be considered as approximate. Actual location shall be as required to suit conditions at time of installation and as is reasonable.
- .2 Locate equipment, fixtures and distribution systems to provide minimum interference and maximum usable space and in accordance with manufacturer's recommendations for safety, access and maintenance.
- .3 Inform Departmental Representative when impending installation conflicts with other new or existing components. Follow directives for actual location.
- .4 Submit field drawings to indicate relative position of various services and equipment when required by Departmental Representative.

1.15 EXISTING SERVICES

- .1 Maintain existing services to the building.
- .2 Notify the Departmental Representative and utility companies of intended interruption of services and obtain required permission.
- .3 Where work involves breaking into or connecting to existing services, carry out work at times directed by governing authorities, with minimum of disturbance to pedestrian, vehicular traffic, and tenant operations.
- .4 Before commencing work, establish location and extent of service lines in area of work and notify Departmental Representative of findings.
- .5 Submit schedule to and obtain approval from Departmental Representative for any shut-down or closure of active service or facility. This includes disconnection of electrical power and communication services to tenant's operational areas. Adhere to approved schedule and provide notice to affected parties.
- .6 Provide temporary services when directed by Departmental Representative to maintain critical building and tenant systems.
- .7 Provide adequate bridging over trenches which cross sidewalks, driveways or roads to permit normal traffic.
- .8 Where unknown services are encountered, immediately advise Departmental Representative and confirm findings in writing.
- .9 Protect, relocate or maintain existing active services as required. When inactive services are encountered, cap off in manner approved by authorities having jurisdiction over service. Record locations of maintained, re-routed and abandoned service lines.
- .10 Record locations of maintained, re-routed and abandoned service lines.

1.16 BILINGUAL NOTATIONS

- .1 Any items supplied and installed under this contract which have operating instructions on them and which can be expected to be used by the building tenants, must have such operating instructions in bilingual format – English and French.
- .2 Factory embossed or recessed symbols illustrating equipment operation is an acceptable alternate to lettering.
- .3 Items supplied with factory - embossed or recessed lettering in one official language with an applied sticker or decal representing the second official language is not acceptable unless the Departmental Representative gives prior approval before any such items are ordered.
- .4 Internationally recognized colour coding such as red and blue centre pieces for plumbing brass is acceptable.
- .5 No extra costs will be paid for re-stocking or re-ordering of materials and equipment due to Contractor's failure to fully meet bilingual signage requirements specified herein.
- .6 Ensure that all trades are made aware of above requirements.

1.17 BUILDING SMOKING ENVIRONMENT

- .1 Comply with smoking restrictions. No smoking on property.

1.18 ASBESTOS DISCOVERY

- .1 Demolition 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 Departmental Representative immediately. Do not proceed with relevant work until written instructions have been received from Departmental Representative.

END OF SECTION