

1.1 SCOPE

- .1 The work covered under this contract consists of the furnishing of all plant, labour, equipment and material for Site Remediation at Cape Pine Light Station, Newfoundland and Labrador, in strict accordance with specifications and accompanying drawings and subject to all terms and condition of contract.

1.2 DESCRIPTION OF WORK

- .1 In general, work under this contract will consist of, but will not necessarily be limited to,
- .1 Removal & treatment/disposal of leachable lead impacted soil & sod to a Provincially approved facility.
 - .2 Removal and disposal of leachable lead paint to a certified destruction facility contained on wood siding, trims and concrete foundation surfaces.
 - .3 Removal and reinstatement of wood siding and trims on two dwellings as specified.
 - .4 Supply and installation of concrete walkway to one dwelling as specified.
 - .5 Supply, placement, grading and compaction of Class "A" material on the roadway as specified.
 - .6 Supply and placement of geotextile and gravel fill in areas as specified.
- .2 The following report is enclosed as Appendix B for review by the Contractor:
- .1 Additional Remediation and Updated Remedial Action Plan/Risk Management Plan, DFO Light Station, Cape Pine, NL, Stantec, March 31, 2013.

Note that quantities and estimates in the reference report are to be used only as a guide. There will be no compensation to the Contractor for any errors, omissions, or discrepancies in the report. The Departmental

Representative accepts no responsibility for the accuracy of the information provided in the report. Work will be completed only as outlined on the drawings and herein specified.

1.3 FAMILIARIZATION
WITH SITE

- .1 Before submitting a bid, it is recommended that bidders visit the site and its surroundings to review and verify the form, nature and extent of the work, materials needed for the completion of the work, the means of access to the site, severity, exposure and uncertainty of weather, soil conditions, any accommodations they may require, and in general shall obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect their bid or costs to do the work. No allowance shall be made subsequently in this connection on account of error or negligence to properly observe and determine the conditions that will apply.
- .2 Contractors, bidders or those they invite to site are to review specification Section 01 35 28 - Health and Safety Requirements before visiting site. Take all appropriate safety measures for any visit to site, either before or after acceptance of bid.
- .3 Obtain prior permission from the Departmental Representative before carrying out such site inspection.

1.4 CODES AND
STANDARDS

- .1 Perform work in accordance with the following codes and legislative requirements:
 - .1 Environment Act of the Province of Newfoundland and Labrador.
 - .2 Environmental Control (Water and Sewer) Regulations of the Province of

Newfoundland and Labrador.

.3 Waste Material Disposal Act of the Province of Newfoundland and Labrador.

.4 Canadian Environmental Protection Act.

.5 Transportation Dangerous Goods Act.

.6 Canadian Fisheries Act.

.7 Canadian Council of Ministers of the Environment (CCME). National Guidelines for Decommissioning Industrial Sites.

.8 Canada Labour Code Occupational Health and Safety Standards.

.9 National Building Code of Canada, latest edition.

.10 National Fire Code of Canada, latest edition.

.11 Newfoundland Occupational Health and Safety Act and Regulations.

.12 The Storage and Handling of Gasoline and Associated Products Regulations by the Province of Newfoundland and Labrador.

.13 Any other Federal, Provincial, Municipal and Local Code, Standard, Regulation, Guideline, By-Law or Ordinance having jurisdiction.

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

1.5 TERMS

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

1.6 SETTING OUT WORK

.1 Set grades and layout work in detail from control points and grades established by Departmental Representative.

.2 Assume full responsibility for and execute complete layout of work to locations, lines and elevations indicated or as directed by Departmental Representative.

- .3 Provide devices needed to layout and construct work.
- .4 Supply such devices as straight edges and templates required to facilitate Departmental Representative's inspection of work.
- .5 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.
- .2 Upon approval by Departmental Representative, cost breakdown will be used as basis for progress payment.
- .3 All work items not designated in the unit price table as a measurement for payment, are to be included in the lump sum arrangement, as noted on the Bid and Acceptance Form.

1.8 WORK SCHEDULE

- .1 Submit within 7 work days of notification of acceptance of bid, a construction schedule showing commencement and completion of all work within the time stated on the Bid and Acceptance Form and the date stated in the bid acceptance letter.
- .2 Provide sufficient details in schedule to clearly illustrate entire implementation plan, depicting efficient coordination of tasks and resources, to achieve completion of work on time and permit effective monitoring of work progress in relation to established milestones.

- .3 As a minimum, work schedule to be prepared and submitted in the form of Bar (GANTT) Charts, indicating work activities, tasks and other project elements, their anticipated durations and planned dates for achieving key activities and major project milestones provided in sufficient details and supported by narratives to demonstrate a reasonable plan for completion of project within designated time. Generally Bar Charts derived from commercially available computerized project management system are preferred but not mandatory.
- .4 Submit schedule updates on a minimum monthly basis and more often, when requested by Departmental Representative, due to frequent changing project conditions. Provide a narrative explanation of necessary changes and schedule revisions at each update.
- .5 The schedule, including all updates, shall be to Departmental Representative's approval. Take necessary measures to complete work within approved time. Do not change schedule without Departmental Representative's approval.
- .6 All work on the project will be completed within the time indicated on the Bid and Acceptance Form.

1.9 SITE
OPERATIONS

- .1 Arrange for sufficient space adjacent to project site for conduct of operations, storage of materials and so on. The Departmental Representative will make final decision in this regard. Exercise care so as not to obstruct or damage tenant or public property in area. Do not interfere with normal day-to-day operations in progress at site. All

arrangements for space and access will be made by Contractor. Execute work with least possible interference or disturbance to tenant operations and with maximum consideration and emphasis on safety for circulating vehicles, occupants and public.

1.10 PROJECT
MEETINGS

- .1 Departmental Representative will arrange project meetings and assume responsibility for setting times and recording minutes.
- .2 Project meetings will take place on site of work unless so directed by the Departmental Representative.
- .3 Departmental Representative will assume responsibility for recording minutes of meetings and forwarding copies to all parties present at the meetings.
- .4 Have a responsible member of firm present at all project meetings.

1.11 PROTECTION

- .1 Store all materials and equipment to be incorporated into work to prevent damage by any means.
- .2 Repair or replace all materials or equipment damaged in transit or storage to the satisfaction of Departmental Representative and at no cost to Canada.

1.12 EXISTING
SERVICES

- .1 Where work involves breaking into or connecting to existing services, carry out work at times directed by governing authorities, with minimum of disturbance to site operations, vehicular and tenant operations. Arrange with Departmental Representative to facilitate execution of work and abide by all direction from Departmental Representative in this regard

(this includes disconnections of existing services).

- .2 Before commencing work, establish location and extent of service lines in area of work and notify Departmental Representative of findings.
- .3 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 dwellings. Adhere to approved schedule and provide notice to affected parties. Shut down or closure of active services, as needed to perform work, must be planned ahead of time and coordinated with Departmental Representative.
- .4 Provide temporary services when directed by Departmental Representative to maintain critical facility systems.
- .5 Provide adequate bridging over trenches which cross walkways or roads to permit normal traffic.
- .6 Where unknown services are encountered, immediately advise Departmental Representative and confirm findings in writing.
- .7 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.

1.13 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 Site specific Health and Safety Plan and other safety related documents
- .11 Other documents as stipulated elsewhere in the Contract Documents.

1.14 PERMITS

- .1 Obtain and pay for all permits, certificates and licenses as required by Municipal, Provincial, Federal and other 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 submissions and approval documents received for above referenced authorities.
- .5 Comply with all requirements, recommendations and advice by all regulatory authorities unless otherwise agreed in writing by Departmental Representative. Make requests for such deviations to these requirements sufficiently in advance of related work.

1.15 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, cut, patch and make good to match existing work. This includes patching of openings in existing work resulting from removal of existing services.
- .3 Do not cut, bore, or sleeve load-bearing members.
- .4 Make cuts with clean, true, smooth edges. Make patches inconspicuous in final assembly.

1.16 LOCATION OF
WORK

- .1 Location of work specified shall be considered as approximate. Actual location shall be as required to suit conditions. Obtain approval of Departmental Representative prior to initiating work.
- .2 Locate equipment, 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.

1.17 ACCEPTANCE

- .1 Prior to the issuance of the Certificate of Substantial Performance, in company with Departmental Representative, make a check of all work. Correct all

discrepancies before final inspection and acceptance.

1.18 WORKS
COORDINATION

- .1 Responsible for coordinating the work of the various trades, where the work of such trades interfaces with each other.
- .2 Convene meetings between trades whose work interfaces and ensure that they are fully aware of the areas and the extent of where interfacing is required. Provide each trade with the specifications of the interfacing trade, as required, to assist them in planning and carrying out their respective work.
- .3 Canada will not be responsible for or held accountable for any extra costs incurred as a result of the failure to carry out coordination work. Disputes between the various trades as a result of their not being informed of the areas and extent of interface work shall be the sole responsibility of the General Contractor and shall be resolved at no extra cost to Canada.

1.19 CONTRACTOR'S
USE OF SITE

- .1 Construction operations, including storage of materials for this contract, not to interfere with public, private or tenant operations at this site.
- .2 Responsible for arranging the storage of materials on or off site, and any materials stored at the site which interfere with any of the day to day activities at or near the site will be moved promptly at the Contractor's expense, upon request by Departmental Representative.
- .3 Contractor will take adequate precautions to protect existing concrete and asphalt

when operating tracked equipment. Repair damage to grounds outside work area, caused by the Contractor's equipment, at no cost to Canada.

- .4 Exercise care so as not to obstruct or damage public or private property in the area.
- .5 At completion of work, restore area to its original condition. Damage to ground and property will be repaired by Contractor. Remove all construction materials, residue, excess, etc., and leave site in a condition acceptable to Departmental Representative.

1.20 WORK
COMMENCEMENT

- .1 Mobilization to project site is to commence immediately after acceptance of bid and submission of Site Specific Safety Plan and insurance documentation, unless otherwise agreed by Departmental Representative.
- .2 Project work on site is to commence as soon as possible, with a continuous reasonable work force, unless otherwise agreed by Departmental Representative.
- .3 Weather conditions, delivery challenges and the location of the work site may require the use of longer working days and additional work force to complete the project within the specified completion time.
- .4 Make every effort to ensure that sufficient material and equipment is delivered to site at the earliest possible date after acceptance of bid and replenished as required.

1.21 FACILITY

- .1 Comply with "no smoking" restrictions.

SMOKING ENVIRONMENT

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| 1.22 CONSTRUCTION
<u>EQUIPMENT AND PLANT</u> | .1 | On request, prove to the satisfaction of Departmental Representative that the construction equipment and plant are adequate to manufacture, transport, place and finish work to quality and production rates specified. If inadequate, replace or provide additional equipment or plant as directed. |
| | .2 | Maintain construction equipment and plant in good operating order. Prevent oil and other contaminant leaks. Should any contaminant leak onto ground or into the water, take immediate and appropriate measures to contain, cleanup and dispose in an environmentally responsible manner. |