

PART 1 - GENERAL

- 1.1 Description .1 In general, work under this contract consists of the furnishing of all plant, labour, equipment, and materials for the new boat ramp, at McEachern's Point, Northumberland County, NB. The work is to be completed in strict compliance with the plans and specifications as prepared for this project.
- 1.2 Scope of Work .1 In general, work under this Contract shall consist of, but not be limited to, the following:
- .1 The supply, installation and maintenance of a floating boom/silt curtain surrounding the area of work.
 - .2 The removal and disposal of in-situ excavated material and asphalt.
 - .3 The removal and reinstatement of existing boat ramp gate and posts, complete with concrete foundations.
 - .4 The relocation of a guiderail, shed and oil storage container.
 - .5 The design and construction of a temporary dyke or cofferdam and all dewatering as required to seal off area of work to carry out removal of asphalt, excavation of in-situ materials, backfilling and compaction of fills and the construction of the new cast-in-place concrete ramp in the dry.
 - .6 The removal and proper disposal of all existing asphalt from the present boat ramp.
 - .7 Paving of the transition from the top of the new ramp to the existing asphalt surface.
 - .8 The supply and installation of filter fabric.
 - .9 The supply and installation of R-50 random rip-rap, R-5 random rip-rap, structural fill, sub-base and base materials.
 - .10 Regrading and proof-rolling of in-situ granular fill in the area below the boat ramp.
 - .11 The removal and reinstallation of existing armour stone and rip-rap slope protection in order to install new work.
 - .12 Reshaping and resetting of armour stone and rip-rap on adjacent embankment slopes as

- .13 required to accommodate new work.
 - .13 Location and protection of all electrical and buried services in the area of the new work.
 - .14 The transportation and proper disposal of all excavated materials.
 - .15 The construction of a cast-in-place reinforced ramp slab with curbs in the dry.
 - .16 All materials, equipment and labour for excavation, backfilling and compaction as required to complete the work.
 - .17 All material removals, relocation work, reinstallation work, and patching to extent shown and as necessary to complete the work of this Contract.
 - .18 The appropriate disposal of all existing materials removed from the work and not designated by the Departmental Representative to be reinstalled or salvaged.
- .2 Work under this Contract is divided into descriptive sections which are not intended to identify absolute contractual limits. The Contractor is responsible for organizing division of labour and supply of materials and equipment necessary to complete the project in all its parts as established in the Articles of the Agreement.
- .3 All work under this Contract to be performed in such a manner as to meet all Environmental and Health and Safety requirements.
- 1.3 Schedule of Work
- .1 The work to be carried out under this contract must be completed within the time limits set out in the terms of the Contract.
 - .2 Immediately upon award of contract, the Contractor will submit a schedule of work to the Departmental Representative, showing anticipated progress stages and final completion of work within time required by contract documents. All entries contained in unit price table will be entered on schedule using a horizontal bar graph method.
 - .3 Should Contractor find that he cannot maintain schedule as originally intended, he will immediately submit a

revised schedule without being requested to do so by Departmental Representative and take the necessary action to have the project back on schedule.

1.4 Work Commencement .1

Contractor is to commence work as soon as possible after award and in accordance with the Articles of Agreement.

.2 The Contractor is to make every effort to ensure that sufficient material and equipment is delivered to site at the earliest possible date after award.

1.5 Familiarization with Site .1

Parties intending to tender for this work are advised to visit the site and make their own estimates of facilities and difficulties attending execution of work, actual site and soil conditions, severity, fishing activities, exposure and uncertainty of weather and all other contingencies.

.2 Obtain prior permission from the Departmental Representative before carrying out such site inspection.

.3 Bidders are required to review the list of potential site hazards provided in Section 01 35 29 - Health and Safety Requirements.

.4 Bidders are required to wear all appropriate personal protective equipment and take all precautionary measures necessary to ensure their safety during any pre-tender site visit.

.5 Contractor shall make own assessment of the site conditions, existing wharf structure and the difficulties in carrying out the work as specified.

.6 Bidders are advised to consult the Tide Tables issued by Fisheries and Oceans as a guide to the tidal conditions affecting the work.

1.6 Contractor's Use of Site .1

The Contractor is advised that the demolition/ construction operations, including storage of materials for this contract, must not interfere with the fishing activities and/or the operations at the wharf. Plan and execute work to minimize interferences. Consult harbour authority and follow their directions. The contact person is: Ernest Robichaud, phone number

(506) 779-4771.

- .2 The Contractor will be solely responsible for arranging the storage and stockpiling of materials on or off the site. 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 the Departmental Representative.
 - .3 Exercise care so as not to obstruct or damage public and private property in the area.
 - .4 The contractor is advised that the wharf facilities and the access to the site may be used by other contractors and users.
- 1.7 Protection of Existing Services and Facilities
- .1 It will be the responsibility of the Contractor to become fully acquainted with the existing services and take necessary steps to protect the services during construction operations.
 - .2 Contractor will take adequate precautions to protect existing concrete decks on adjacent structures and asphalt surfaces designated to remain undisturbed when operating tracked equipment.
 - .3 At completion of work, restore area to its original condition. Damage to the structure and property will be repaired by Contractor. Remove all construction materials, residue, excess, etc., and leave work site, adjacent access roads and wharf structures in pre-construction conditions.
- 1.8 Codes and Standards
- .1 Perform work in accordance with the National Building Code of Canada and any other code of provincial or local application including all amendments up to project tender closing date provided that in any case of conflict or discrepancy, the more stringent requirements shall apply.
 - .2 Materials and workmanship must meet or exceed requirements of specified standards, codes and referenced documents.
- 1.9 Interpretation of
- .1 Supplementary to the Order of Precedence article of the

<u>Documents</u>		General Conditions, the Division 01 Sections take precedence over the technical division sections of these Specifications.
<u>1.10 Term Engineer</u>	.1	Unless specifically stated otherwise, the term Engineer when used in the Specifications and on the Drawings shall mean the Departmental Representative as defined in the General Conditions of the Contract.
<u>1.11 Setting Out Work</u>	.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.
	.5	Setting out the work, mobilization, demobilization, and other costs associated with the work but not included as part of specific bid items will be considered as incidental to the Construction/Demolition/Mob/Demob pay item in Section 31 11 00 Site Work, Preparation and Removal.
<u>1.12 Dewatering</u>	.1	The design of all temporary works for the dewatering required to construct the work in the dry is the responsibility of the Contractor.
	.2	Method of dewatering to be submitted to Departmental Representative for review and approval.
	.3	Should the Contractor choose to construct a berm with a membrane liner in order to dewater the area of work using imported material, it shall consist of clean, crushed rock. Use of sandstone or pit-run gravels is not permitted. Upon completion of work, all material used for the berm construction is to be removed, dewatered, washed and, when free of contaminants, transported from site and disposed of.
	.4	Alternate methods of dewatering, including bladders or

sand bags, to be constructed and removed from the site upon completion. Materials and methods of installation and removal shall have no detrimental effect on the environment.

1.13 Measurement for Payment

- .1 Notify Departmental Representative sufficiently in advance of operations to permit required measurements for payment.
- .2 Items to be measured for payment are the following:
 - .1 Cast-in-Place Concrete Ramp Slab: Section 03 30 00 – Cast-in-Place Concrete.
 - .2 Construction/Demolition/Mob/Demob: Section 31 11 00 - Site Work Preparation and Demolition.
 - .3 Filter Fabric: Section 31 32 21 – Geotextiles.
 - .4 Floating Silt Curtain: Section 31 32 21 – Geotextiles.
 - .5 Random Rip-Rap (R-50): Section 31 37 10 – Random Rip-Rap.
 - .6 Random Rip-Rap (R-5): Section 31 37 10 – Random Rip-Rap.
 - .7 Structural Fill: Section 32 11 16 – Granular Sub-Base Materials.
 - .8 Granular Sub-Base: Section 32 11 16 – Granular Sub-Base Materials.
 - .9 Granular Base: Section 32 11 23 – Granular Base Materials.
 - .10 Asphalt Pavement: Section 32 12 16 – Asphalt Paving.
- .3 All costs associated with the temporary work for dewatering is to be the responsibility of the Contractor.
- .4 There will not be any separate payments made for the cost of snow and ice removal at the construction site, for access roads and storage sites or extra payment due to delays caused by ice movements and winter storms or because of interference by the operation of the harbour.
- .5 Pay applicable federal, provincial and municipal taxes.

1.14 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 Electrical Lock-Out
- .12 Fire Safety Hot Work Permit
- .13 Permits, Codes and Acts.
- .14 Waste Management Plan
- .15 Copy of New Brunswick Occupational Health and Safety Act.
- .16 Other documents as stipulated elsewhere in the Contract Documents, Drawings and these Specifications.

1.15 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 from above referenced authorities.

1.16 Existing Services

- .1 Before commencing work, establish location and extent of service lines and notify Departmental Representative of findings in writing.
- .2 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 lighting. Adhere to approved schedule and provide notice to affected parties.

- .3 Be aware that the Harbour Facilities must be kept operational for the full duration of Work of this Contract. Services to areas used by the public, fishermen and harbour users must also be maintained at all times as directed.
- .4 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.
- .5 Removal and reinstatement of pipes, services, utilities, poles, etc., (in accordance with service providers' or owners' requirements) will be incidental to the Work.
- 1.17 Chart Datum .1 All elevations used in this specification and accompanying drawings are referred to the chart datum which is Lowest Normal Tides (L.N.T.) for the purpose of the contract. The value of the benchmark (B.M.) as shown on the drawings indicates elevations above chart datum.
- 1.18 Cutting, Fitting and Patching .1 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.
- 1.19 Existing Soil Conditions .1 The Contractor must make his own evaluation of soil conditions.
- .2 Geotechnical report prepared for this project is available in Annex 'A'.
- 1.20 Ice and Snow Removal .1 Assume full responsibility for snow and ice removal to gain access to the construction site, access to the wharf and storage areas, if required.

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- 1.1 Submittals .1 Upon award of contract and prior to commencement of work, submit to Departmental Representative the following work management documents:
- .1 Work Schedule as specified herein.
 - .2 Shop Drawing Submittal Schedule specified in section 01 33 00.
 - .3 Special Procedures on Lockout Procedures specified in section 01 35 25.
 - .4 Health and Safety Plan specified in section 01 35 29.
- 1.2 Work Schedule .1 The contractor will coordinate his work with the Harbour Authority's directives.
- .2 Upon acceptance of bid submit:
- .1 Detailed work schedule within 7 calendar days of contract award.
 - .2 Schedule to indicate all calendar dates from commencement to completion of all work within the time stated in the accepted bid.
 - .3 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 Work schedule content to include as a minimum the following:
- .1 Bar (GANNT) Charts, indicating all work activities, tasks and other project elements, their anticipated durations, planned dates for achieving key activities and major project milestones.
- .4 Work schedule must take into consideration and reflect the work phasing, and operational restrictions as indicated on drawings.
- .5 Schedule work in cooperation with the Departmental Representative. Incorporate within Work Schedule,

items identified by Departmental Representative during review of schedule.

- .6 Completed schedule shall be approved by Departmental Representative. When approved, take necessary measures to complete work within scheduled time. Do not change schedule without Departmental Representative's approval.
- .7 Ensure that all sub trades and subcontractors are made aware of the work restraints and operational restrictions specified.
- .8 Schedule Updates:
 - .1 Submit on a weekly basis or as otherwise directed by Departmental Representative.
 - .2 Provide information and pertinent details explaining reasons for necessary changes to implementation plan.
 - .3 Identify problem areas, anticipated delays, impact on schedule and proposed corrective measures to be taken.
- .9 Departmental Representative will make interim reviews and evaluate progress of work based on approved schedule. Frequency of such reviews will be as decided by Departmental Representative. Address and take corrective measures on items identified by reviews and as directed by Departmental Representative. Update schedule accordingly.
- .10 In every instance, change or deviation from the Work Schedule, no matter how minimal the risk or impact on safety or inconvenience to tenant or public might appear, will be subject to prior review and approval by the Departmental Representative.

1.3 Operational Restrictions .1

The Contractor must recognize that harbour activities and occupants will be affected by implementation of this Contract. The Contractor must perform the work with utmost regard to the safety and convenience of all harbour users. All work activities must be planned and scheduled with this in mind. The Contractor will not be

permitted to disturb any portion of the harbour without providing temporary facilities as necessary to ensure safe and direct passage through disturbed or otherwise affected areas.

- .2 Facility circulation maintained:
 - .1 Ensure that entrances, roadways, loading zones and other circulation routes are maintained free and clear providing safe and uninterrupted passage for Facility users and public at all times during the entire Work.

1.4 Project Meetings

- .1 Departmental Representative will arrange project meetings.
- .2 Departmental Representative will assume responsibility for setting times and recording minutes.
- .3 All project meetings will take place on site of work unless otherwise directed by the Departmental Representative.
- .4 The Contractor's superintendent and sub-contractors are to be present at all project meetings.

1.5 Work Coordination

- .1 The General Contractor is responsible for coordinating the work of the various trades and predetermining where the work of such trades interfaces with each other.
 - .1 Designate one person from own employ having overall responsibility to review contract documents and shop drawings, plan and manage such coordination.
- .2 Work Cooperation:
 - .1 Ensure cooperation between trades in order to facilitate the general progress of the work and avoid situations of spatial interference.
 - .2 Ensure that each trade provides all other trades reasonable opportunity for the completion of the work and in such a way as to prevent unnecessary delays, cutting, patching and the need to remove and replace completed work.
- .3 No extra costs to the Contract will be considered by the

Departmental Representative as a result of Contractor's failure to effectively coordinate all portions of the 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 to be resolved at own cost.

1.6 Other Contracts

- .1 Further contracts may be let during the period that this Contract is in progress.
- .2 Cooperate with other Contractors in carrying out their respective work and carry out all instructions from the Departmental Representative in this regard.
- .3 Connect properly and coordinate work with that of other Contractors.

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- 1.1 Related Sections .1 Section 01 78 00 Closeout Submittals.
- 1.2 Submittal General Requirements .1 Submit to Departmental Representative for review requested submittals specified in various sections of the Specifications including shop drawings, samples, permits, compliance certificates, test reports, work management plans and other data required as part of the work.
- .2 Submit with reasonable promptness and in orderly sequence so as to allow for Departmental Representative's review and not cause delay in Work. Failure to submit in ample time will not be considered sufficient reason for an extension of Contract time and no claim for extension by reason of such default will be allowed.
- .3 Do not proceed with work until relevant submissions have been reviewed.
- .4 Present shop drawings, product data, samples and mock-ups in SI Metric units.
- .5 Where items or information is not produced in SI Metric units, converted values are acceptable.
- .6 Review, stamp, sign and date submittals prior to submission to Departmental Representative. This review represents that necessary requirements have been determined and verified, or will be, and that each submittal has been checked and co-ordinated with requirements of Work and Contract Documents. Submittals not stamped, signed, dated and identified as to specific project will be returned without being examined and shall be considered rejected.
- .7 Verify that field measurements and affected adjacent Work are coordinated.
- .8 Notify Departmental Representative, in writing at time

of submission, identifying deviations from requirements of Contract Documents stating reasons for deviations. Identify variations from Contract Documents and product or system limitations, which may be detrimental to successful performance of the complete Work.

- .9 Contractor's responsibility for errors, omissions or deviations in submission from requirements of Contract Documents is not relieved by Departmental Representative's review of submission, unless Departmental Representative gives written acceptance of specific deviations.
- .10 Make changes or revision to submissions which Departmental Representative may require, consistent with Contract Documents and resubmit as directed by Departmental Representative. When resubmitting, identify in writing of any revisions other than those requested.
- .11 Keep one reviewed copy of each submittal document on site for duration of Work.

1.3 Shop Drawings and
Product Data

- .1 The term "shop drawings" means drawings, diagrams, illustrations, schedules, performance charts, technical product data, brochures and other data to be provided by Contractor to illustrate details of a portion of Work.
- .2 Shop Drawing Submittal Schedule:
 - .1 Submit, within 10 working days of contract award, in format acceptable to Departmental Representative, a submittal schedule listing all shop drawings to be submitted for project as specified in various sections of the Specifications.
 - .2 Schedule to indicate proposed submission date for each item, status of review and anticipated product delivery date to site. Track all submissions for entire project.
 - .3 As work progresses, revise schedule identifying items which have been reviewed and finalized and indicating those outstanding.
 - .4 Update schedule at stipulated dates or project

time intervals predetermined and agreed upon with Departmental Representative at commencement of Work.

- .3 Shop Drawing Quantities: submit sufficient copies required by the General Contractor and sub-contractors plus 3 copies which will be retained by Departmental Representative.
- .4 Shop Drawings Format:
 - .1 Opaque white prints or photocopies of original drawings or standard drawings modified to clearly illustrate work specific to project requirements. Maximum sheet size to be 1000 x 700 mm.
 - .2 Product Data from manufacturer's standard catalogue sheets, brochures, literature, performance charts and diagrams, used to illustrate standard manufactured products, to be original full colour brochures, clearly marked indicating applicable data and deleting information not applicable to project.
 - .3 Non or poorly legible drawings, photocopies or facsimiles will not be accepted and returned not reviewed.
- .5 Shop Drawings Content:
 - .1 Indicate materials, methods of construction and attachment or anchorage, erection diagrams, connections, explanatory notes and other information necessary for completion of Work. Where items or equipment attach or connect to other items or equipment, confirm that all interrelated work have been coordinated, regardless of section or trade from which the adjacent work is being supplied and installed.
 - .2 Supplement manufacturer's standard drawings and literature with additional information to provide details applicable to project.
 - .3 Delete information not applicable to project on all submittals.
- .6 Allow 14 calendar days for Departmental

Representative's review of each submission.

- .7 Adjustments or corrections made on shop drawings by Departmental Representative are not intended to change Contract Price. If adjustments affect value of Work, advise Departmental Representative in writing prior to proceeding with Work.
- .8 If upon review by Departmental Representative, no errors or omissions are discovered or if only minor corrections and comments are made, fabrication and installation may proceed upon receipt of shop drawings. If shop drawings are rejected and noted to be Resubmitted, do not proceed with that portion of work until resubmission and review of corrected shop drawings, through same submission procedures indicated above.
- .9 Be advised that costs and expenses incurred by Departmental Representative to conduct more than one review of incorrectly prepared shop drawing submittal for a particular material, equipment or component of work may be assessed against the Contractor in the form of a financial holdback to the Contract.
- .10 Accompany each submissions with transmittal letter containing:
 - .1 Date.
 - .2 Project title and project number.
 - .3 Contractor's name and address.
 - .4 Identification and quantity of each shop drawing, product data and sample.
 - .5 Other pertinent data.
- .11 Submissions shall include:
 - .1 Date and revision dates.
 - .2 Project title and project number.
 - .3 Name and address of:
 - .1 Subcontractor.
 - .2 Supplier.
 - .3 Manufacturer.
 - .4 Contractor's stamp, signed by Contractor's authorized Representative certifying approval of

- submissions, verification of field measurements and compliance with Contract Documents.
- .5 Cross references to particular details of Contract Drawings and Specifications section number for which shop drawing submission addresses.
 - .6 Details of appropriate portions of Work as applicable:
 - .1 Fabrication.
 - .2 Layout, showing dimensions, including identified field dimensions, and clearances.
 - .3 Setting or erection details.
 - .4 Capacities.
 - .5 Performance characteristics.
 - .6 Standards.
 - .7 Relationship to adjacent work.
 - .12 After Departmental representative's review, distribute copies.
 - .13 The review of shop drawings by Public Works and Government Services Canada (PWGSC) or its authorized Consultant is for sole purpose of ascertaining conformance with general concept. This review shall not mean that PWGSC approves the detail design inherent in the shop drawings, responsibility for which shall remain with Contractor submitting same, and such review shall not relieve Contractor of responsibility for errors or omissions in shop drawings or of responsibility for meeting all requirements of the construction and Contract Documents. Without restricting generality of foregoing, Contractor is responsible for dimensions to be confirmed and correlated at job site, for information that pertains solely to fabrication processes or to techniques of construction and installation and for co-ordination of Work of all sub-trades.
- 1.4 Samples
- .1 Submit for review samples as specified in respective specification sections. Label samples with origin and intended use.
 - .2 Deliver samples to Departmental Representative's office or to other address as directed. Do not drop off samples

at construction site unless pre-approved.

- .3 Notify Departmental Representative in writing, at time of submission, of deviations in samples from requirements of Contract Documents.
- .4 Adjustments made on samples by Departmental Representative are not intended to change Contract Price. If adjustments affect value of Work, state such in writing to Departmental Representative prior to proceeding with Work.
- .5 Make changes in samples which Departmental Representative may require, consistent with Contract Documents.
- .6 Reviewed and accepted samples will become standard of workmanship and material against which installed Work will be verified.

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- 1.1 Related Sections .1 Section 01 35 29 Health and Safety Requirements.
- 1.2 Section Includes .1 Fire Safety Requirements.
- .2 Hot Work Permit.
- 1.3 References .1 Fire Protection Standards issued by Fire Protection Services, Labour Program Division of Service Canada:
- .1 FCC No. 301-June 1982 Standard for Construction Operations.
- .2 FCC No. 302-June 1982 Standard for Welding and Cutting.
- .3 FCC standards, may be viewed at the Regional Fire Protection Services' office (previously known as the Fire Commissioner of Canada) located at 99 Wyse Road, 8th Floor, Dartmouth, NS, Tel: (902) 426-6053.
- 1.4 Definitions .1 Hot Work defined as:
- .1 Welding work.
- .2 Cutting of materials by use of torch or other open flame devices.
- .3 Grinding with equipment, which produces sparks.
- .4 Use of open flame torches.
- 1.5 Submittals .1 Submit copy of Hot Work Procedures and sample of Hot Work permit to Departmental Representative for review, within 14 calendar days after contract award.
- 1.6 Fire Safety Requirements .1 Implement and follow fire safety measures during Work. Comply with following:
- .1 National Fire Code.
- .2 Fire Protection Standards FCC 301 and FCC 302.
- .3 Federal and Provincial Occupational Health and Safety Acts and Regulations.
- .2 In event of conflict between any provisions of above authorities the most stringent provision will apply. Should a dispute arise in determining the most stringent

requirement, Departmental Representative will advise on the course of action to be followed.

- 1.7 Hot Work Authorization
- .1 Obtain Departmental Representative's written "Authorization to Proceed" before conducting any form of Hot Work on site.
 - .2 To obtain authorization submit to Departmental Representative:
 - .1 Contractor's typewritten Hot Work Procedures to be followed on site as specified below.
 - .2 Description of the type and frequency of Hot Work required.
 - .3 Sample Hot Work Permit to be used.
 - .3 Upon review and confirmation that effective fire safety measures will be implemented and followed during performance of hot work, Departmental Representative will give authorization to proceed as follows:
 - .1 Issue one written "Authorization to Proceed" covering the entire project for duration of work or;
 - .2 Subdivide the work into pre-determined, individual activities, each activity requiring a separately written authorization to proceed.
 - .4 Requirement for individual authorization will be based on:
 - .1 Nature or phasing of work;
 - .2 Risk to Facility operations;
 - .3 Quantity of various trades needing to perform hot work on project or;
 - .4 Other situation deemed necessary by Departmental Representative to ensure fire safety on premises.
 - .5 Do not perform any Hot Work until receipt of Departmental Representative's written "Authorization to Proceed" for that portion of work.
- 1.8 Hot Work Procedures
- .1 Develop and implement safety procedures and work practices to be followed during the performance of Hot Work.

- .2 Hot Work Procedures to include:
 - .1 Requirement to perform hazard assessment of site and immediate work area before hand for each hot work event in accordance with Safety Plan specified in section 01 35 29.
 - .2 Use of a Hot Work Permit system with individually written permit issued by Contractor's Superintendent to specific worker or subcontractor granting permission to proceed with Hot Work.
 - .3 Permit required for each Hot Work event.
 - .4 Designation of a person on site as a Fire Safety Watcher responsible to conduct a fire safety watch for a minimum duration of 60 minutes immediately following the completion of the Hot Work.
 - .5 Compliance with fire safety codes, standards and occupational health and safety regulations specified.
- .3 Generic procedures, if used, must be edited and supplemented with pertinent information tailored to reflect specific project conditions. Label document as being the Hot Work Procedures for this contract.
- .4 Procedures shall clearly establish responsibilities of:
 - .1 Worker performing hot work,
 - .2 Person issuing the Hot Work Permit,
 - .3 Fire Safety Watcher,
 - .4 Subcontractor(s) and Contractor.
- .5 Brief all workers and subcontractors on Hot Work Procedures and of Permit system. Stringently enforce compliance.
- .6 Failure to comply with fire safety procedures may result in the issue of a Non-Compliance notification as specified in Section 01 35 29.

1.9 Hot Work Permit

- .1 Hot Work Permit to include the following:
 - .1 Project name and project number;
 - .2 Area where hot work will be performed;
 - .3 Date of issue;

- .4 Description of hot work type needed;
 - .5 Special precautions to be followed, including type of fire extinguisher needed;
 - .6 Name and signature of permit issuer.
 - .7 Name of worker to which the permit is issued.
 - .8 Permit validity period not to exceed 8 hours. Indicate start time/date and termination time/date.
 - .9 Worker's signature with time/date of hot work completion.
 - .10 Stipulated time period of safety watch.
 - .11 Fire Safety Watcher's signature with time/date.
- .2 Permit to be typewritten form. Industry Standard forms shall only be used if all data specified above is included on form.
- .3 Each Hot Work Permit to be completed in full, signed and returned to Contractor's Superintendent for safe keeping on site.
- 1.10 Documents on Site
- .1 Keep Hot Work Permits and Hazard assessment documentation on site for duration of Work.
 - .2 Upon request, make these available to Departmental Representative or to authorized safety Representative for inspection.

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<u>1.1</u>	<u>Related Sections</u>	.1	Section 01 35 29 Health and Safety Requirements.
<u>1.2</u>	<u>Description</u>	.1	Procedures to isolate and lockout includes electrical facility or other equipment from energy source.
<u>1.3</u>	<u>References</u>	.1	CSA C22.1-2002 - Canadian Electrical Code, Part 1, Safety Standard for Electrical Installations.
		.2	CSA C22.3 No. 1-M87 (R2001) - Overhead Systems.
		.3	CSA C22.3 No. 7-94 (R2000) - Underground Systems.
		.4	COSH, Canada Occupational Health and Safety Regulations made under Part II of the Canada Labour Code.
<u>1.4</u>	<u>Definitions</u>	.1	Electrical Facility: means any system, equipment, device, apparatus, wiring, conductor, assembly or part thereof that is used for the generation, transformation, transmission, distribution, storage, control, measurement or utilization of electrical energy, and that has an amperage and voltage that is dangerous to persons.
		.2	Guarantee of Isolation: means a guarantee by a competent person in control or in charge that a particular facility or equipment is isolated.
		.3	De-energize: in the electrical sense, that a piece of equipment is isolated and grounded, e.g. if the equipment is hot grounded, it cannot be considered de-energized (DEAD).
		.4	Guarded: means that an equipment or facility is covered, shielded, fenced, enclosed, inaccessible by location, or otherwise protected in a manner that, to the extent that is reasonably practicable, will prevent or reduce danger to any person who might touch or go near such item.
		.5	Isolate: means that an electrical facility, mechanical

equipment or machinery is separated or disconnected from every source of electrical, mechanical, hydraulic, pneumatic or other kind of energy that is capable of making it dangerous.

- .6 Live/alive: means that an electrical facility produces, contains, stores or is electrically connected to a source of alternating or direct current of an amperage and voltage that is dangerous or contains any hydraulic, pneumatic or other kind of energy that is capable of making the facility dangerous to persons.

1.5 Compliance Requirements.

Perform lockouts in compliance with:

- .1 Canadian Electrical Code.
- .2 Federal and Provincial Occupational Health and Safety Acts and Regulations as specified in section 01 35 29.
- .3 Regulations and code of practice as applicable to mechanical equipment or other machinery being de-energized.
- .4 Procedures specified herein.

- .2 In event of conflict between any provisions of above authorities the most stringent provision will apply. Should a dispute arise in determining the most stringent requirement, the Departmental Representative will advise on the course of action to be followed.

1.6 Submittals

- .1 Submit copy of proposed Lockout Procedures and sample of lockout tags for review.
- .2 Submit documentation within 14 calendar days of contract award. Do not proceed with work until submittal has been reviewed by the Departmental Representative.
- .3 Submit above documents in accordance with the submittal - general requirements specified in section 01 33 00.
- .4 Resubmit Lockout Procedures with noted revisions as may result from the Departmental Representative's review.

- 1.7 Isolation of Existing Services
- .1 Obtain the Departmental Representative's written authorization prior to conducting work on an existing active, energized service or facility required as part of the work and before proceeding with lockout of such services or facility.
 - .2 To obtain authorization, submit to the Departmental Representative following documentation:
 - .1 Written Request for Isolation of the service or facility and;
 - .2 Copy of Contractor's Lockout Procedures.
 - .3 Make a Request for Isolation for each event, unless directed otherwise by the Departmental Representative, and as follows:
 - .1 Fill-out standard forms in current use at the Facility when so directed by the Departmental Representative or;
 - .2 Where no form exist at Facility, make request in writing identifying:
 - .1 Identification of system or equipment to be isolated, including its location;
 - .2 Time duration, indicating Start time & date and Completion time & date when isolation will be in effect.
 - .3 Voltage of service feed to system or equipment being isolated.
 - .4 Name of person making the request.
 - .4 Do not proceed until receipt of written notification from the Departmental Representative granting the Isolation Request and authorizing to proceed with the isolation of designated equipment or facility. The Departmental Representative may designate other individual at the Facility as the person authorized to grant the Isolation Request.
 - .5 Conduct safe, orderly shutdown of equipment or facilities, de-energize and isolate power and other sources of energy and lockout items in accordance with requirement of clause 1.8 below.

- .6 Determine in advance, as much as possible, in cooperation with the Departmental Representative, the type and frequency of situations which will require a Request for Isolation. Follow the Departmental Representative's directives in this regard.
 - .7 Plan and schedule shut down of existing services in consultation with the Departmental Representative and the Facility Manager. Minimize impact and downtime of facility operations.
 - .8 Conduct hazard assessment as part of the planning process of isolating existing equipment and facilities. Hazard Assessments to conform with requirements of Health and Safety Section 01 35 29.
- 1.8 Lockouts
- .1 De-energize, isolate and lockout electrical facility, mechanical equipment and machinery from all potential sources of energy prior to working on such items.
 - .2 Develop and implement clear and specific lockout procedures to be followed as part of the Work.
 - .3 Prepare typed written Lockout Procedures describing safe work practices, procedures, worker responsibilities and sequence of activities to be followed on site by work force to safely isolate an active piece of equipment or electrical facility and effectively lockout and tagout it's sources of energy.
 - .4 Include as part of the Lockout Procedures a system of lockout permits managed by Contractor's Superintendent or other qualified person designated by him/her as being "in-charge" at the site.
 - .1 A lockout permit shall be issued to specific worker providing a Guarantee of Isolation before each event when work must be performed on a live equipment or electrical facility.
 - .2 Duties of person managing the permit system to include:
 - .1 Issuance of permits and lockout tags to workers.
 - .2 Determining permit duration.

- .3 Maintaining record of permits and tags issued.
 - .4 Making a Request for Isolation to Departmental Representative when required as specified above.
 - .5 Designating a Safety Watcher, when one is required based on type of work.
 - .6 Ensuring equipment or facility has been properly isolated.
 - .7 Collecting and safekeeping lockout tags returned by workers as a record of the event.
-
- .5 Clearly establish, describe and allocate responsibilities of:
 - .1 Workers.
 - .2 Person managing the lockout permit.
 - .3 Safety Watcher.
 - .4 Subcontractor(s) and General Contractor.
 - .6 Generic procedures, if used, must be edited and supplemented with pertinent information to reflect specific project requirements.
 - .1 Clearly label the document as being the Lockout procedures applicable to work of this contract.
 - .7 Use energy isolation lockout devices specifically designed and appropriate for type of facility or equipment being locked out.
 - .8 Use industry standard lockout tags.
 - .9 Provide appropriate safety grounding and guards as required.
-
- 1.9 Conformance
- .1 Ensure that lockout procedures, as established for project on site, are stringently followed. Enforce use and compliance by all workers.
 - .2 Brief all persons working on electrical facilities, mechanical and other equipment fed by an energy source on requirements of this section.
 - .3 Failure to perform lockouts in accordance with

regulatory requirements or follow procedures specified herein may result in the issuance of a Non-Compliance Notification at the Departmental Representative's discretion with possible disciplinary measures imposed as specified in section 01 35 29.

- 1.10 Documents
- .1 Post Lockout Procedures on site in common on Site location for viewing by workers.
 - .2 Keep copies of Request for Isolation submitted to the Departmental Representative and lockout procedures issued to workers during the course of work for full project duration.
 - .3 Upon request, make such data available to the Departmental Representative or to authorized safety representative for inspection.

END OF SECTION

PART 1 - GENERAL

- 1.1 Definitions
- .1 COSH: Canada Occupational Health and Safety Regulations made under Part II of the Canada Labour Code.
 - .2 Competent Person: means a person who is:
 - .1 Qualified by virtue of personal knowledge, training and experience to perform assigned work in a manner that will ensure the health and safety of persons in the workplace, and;
 - .2 Knowledgeable about the provisions of occupational health and safety statutes and regulations that apply to the Work and;
 - .3 Knowledgeable about potential or actual danger to health or safety associated with the Work.
 - .3 Medical Aid Injury: any minor injury for which medical treatment was provided and the cost of which is covered by Workers' Compensation Board of the province in which the injury was incurred.
 - .4 PPE: personal protective equipment
 - .5 Work Site: where used in this section shall mean areas, located at the premises where Work is undertaken, used by Contractor to perform all of the activities associated with the performance of the Work.
- 1.2 Submittals
- .1 Make submittals in accordance with Section 01 33 00.
 - .2 Submit site-specific Health and Safety Plan prior to commencement of Work.
 - .1 Submit within 5 work days of notification of Bid Acceptance. Provide 3 copies.
 - .2 Departmental Representative will review Health and Safety Plan and provide comments.
 - .3 Revise the Plan as appropriate and resubmit within 5 work days after receipt of comments.
 - .4 Departmental Representative's review and comments made of the Plan shall not be construed as an endorsement, approval or implied warranty of any kind by Canada and

does not reduce Contractor's overall responsibility for Occupational Health and Safety of the Work.

.5 Submit revisions and updates made to the Plan during the course of Work.

.3 Submit name of designated Health & Safety Site Representative and support documentation specified in the Safety Plan.

.4 Submit building permit, compliance certificates and other permits obtained.

.5 Submit copy of Letter in Good Standing from Provincial Workers Compensation or other department of labour organization.

.1 Submit update of Letter of Good Standing whenever expiration date occurs during the period of Work.

.6 Submit copies of reports or directions issued by Federal, Provincial and Territorial health and safety inspectors.

.7 Submit copies of incident reports.

.8 Submit WHMIS MSDS - Material Safety Data Sheets.

1.3 Compliance Requirements

.1 Comply with Occupational Health and Safety Act for Province of New Brunswick, and General Regulations made pursuant to the Act.

.2 Comply with Canada Labour Code - Part II (entitled Occupational Health and Safety) and the Canada Occupational Health and Safety Regulations (COSH) as well as any other regulations made pursuant to the Act.

.1 The Canada Labour Code can be viewed at:
<https://laws.justice.gc.ca/eng/acts/L-2/index.htm>

.2 COSH can be viewed at:
<https://laws-lois.justice.gc.ca/eng/regulations/so-r-86-304/index.html>

.3 A copy may be obtained at: Canadian Government Publishing Ottawa, Canada, K1A 0S9 Tel: (819) 956-4800 (1-800-635-7943)

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- .3 Observe construction safety measures of:
 - .1 Part 8 of National Building Code.
 - .2 Municipal by-laws and ordinances.
 - .4 In case of conflict or discrepancy between above specified requirements, the more stringent shall apply.
 - .5 Maintain Workers Compensation Coverage in good standing for duration of Contract. Provide proof of clearance through submission of Letter in Good Standing.
 - .6 Medical Surveillance: Where prescribed by legislation or regulation, obtain and maintain worker medical surveillance documentation.
- 1.4 Responsibility
- .1 Be responsible for health and safety of persons on site, safety of property on site and for protection of persons and environment adjacent to the site to extent that they may be affected by conduct of Work.
 - .2 Comply with and enforce compliance by all workers, sub-contractors and other persons granted access to Work Site with safety requirements of Contract Documents, applicable federal, provincial, and local by-laws, regulations, and ordinances, and with site-specific Health and Safety Plan.
- 1.5 Site Control and Access
- .1 Control the Work and entry points to Work Site. Approve and grant access only to workers and authorized persons. Immediately stop and remove non-authorized persons.
 - .1 Departmental Representative will provide names of those persons authorized by Departmental Representative to enter onto Work Site and will ensure that such authorized persons have the required knowledge and training on Health and Safety pertinent to their reason for being at the site, however, Contractor remains responsible for the health and safety of authorized persons while at the Work Site.

- .2 Isolate Work Site from other areas of the premises by use of appropriate means.
 - .1 Erect fences, hoarding, barricades and temporary lighting as required to effectively delineate the Work Site, stop non-authorized entry, and to protect pedestrians and vehicular traffic around and adjacent to the Work and create a safe environment.
 - .2 Post signage at entry points and other strategic locations indicating restricted access and conditions for access.
 - .3 Use professionally made signs with bilingual message in the 2 official languages or international known graphic symbols.
 - .3 Provide safety orientation session to persons granted access to Work Site. Advise of hazards and safety rules to be observed while on site.
 - .4 Ensure persons granted site access wear appropriate PPE. Supply PPE to inspection authorities who require access to conduct tests or perform inspections.
 - .5 Secure Work Site against entry when inactive or unoccupied and to protect persons against harm.
- 1.6 Protection
- .1 Give precedence to safety and health of persons and protection of environment over cost and schedule considerations for Work.
 - .2 Should unforeseen or peculiar safety related hazard or condition become evident during performance of Work, immediately take measures to rectify situation and prevent damage or harm. Advise Departmental Representative verbally and in writing.
- 1.7 Filing of Notice
- .1 File Notice of Project with pertinent provincial health and safety authorities prior to beginning of Work.
 - .1 Departmental Representative will assist in locating address if needed.
- 1.8 Permits
- .1 Post permits, licenses and compliance certificates.

- .2 Where a particular permit or compliance certificate cannot be obtained, notify Departmental Representative in writing and obtain approval to proceed before carrying out applicable portion of work.
- 1.9 Hazard Assessments
 - .1 Perform site specific health and safety hazard assessment of the Work and its site.
 - .2 Carryout initial assessment prior to commencement of Work with further assessments as needed during progress of work, including when new trades and subcontractors arrive on site.
 - .3 Record results and address in Health and Safety Plan.
 - .4 Keep documentation on site for entire duration of the Work.
- 1.10 Project/Site Conditions
 - .1 Following are potential health, environmental and safety hazards at the site for which Work may involve contact with:
 - .1 Existing hazardous and controlled products stored on site:
 - .1 Waste oil storage tank.
 - .2 Existing hazardous substances or contaminated materials:
 - .1 Creosoted and Copper Chromate Arsenic (CCA) treated timbers used in the adjacent wharf construction.
 - .3 Known latent site and environmental conditions:
 - .1 Marine Environment.
 - .1 Work above and in the water.
 - .2 Site exposed to waves.
 - .3 Site exposed to marine storms.
 - .2 Seasonal conditions:
 - Winter.
 - .1 Cold weather, freezing rain and snow.
 - .2 Working surfaces, equipment and materials covered in ice.
 - .3 Ice in harbour.
 - .4 Hypothermia.

- .3 Rusty nails, spikes, metal parts and bolts.
 - .4 Underground wires.
 - .4 Facility on-going operations:
 - .1 Vessel movement.
 - .2 Loading and unloading on wharf.
 - .3 Fishers attending their vessels.
 - .4 Site traffic.
 - .5 Construction conditions:
 - .1 Earth moving equipment.
 - .2 Truck hauling.
 - .3 Concrete placement.
 - .2 Above items shall not be construed as being complete and inclusive of potential health and safety hazards encountered during Work.
 - .3 Include above items in the hazard assessment of the Work.
 - .4 MSDS Data sheets of pertinent hazardous and controlled products stored on site can be obtained from Departmental Representative.
 - 1.11 Meetings
 - .1 Attend pre-construction health and safety meeting, convened and chaired by Departmental Representative, prior to commencement of Work, at time, date and location determined by Departmental Representative. Ensure attendance of:
 - .1 Superintendent of Work
 - .2 Designated Health & Safety Site Representative
 - .3 Subcontractors
 - .2 Conduct regularly scheduled tool box and safety meetings during the Work in conformance with Occupational Health and Safety regulations.
 - .3 Keep documents on site.
 - 1.12 Health and Safety Plan
 - .1 Prior to commencement of Work, develop written Health and Safety Plan specific to the Work. Implement, maintain, and enforce Plan for entire duration of Work and until final demobilization from site.
 - .2 Health and Safety Plan shall include the following

components:

- .1 List of health risks and safety hazards identified by hazard assessment.
 - .2 Control measures used to mitigate risks and hazards identified.
 - .3 On-site Contingency and Emergency Response Plan as specified below.
 - .4 On-site Communication Plan as specified below.
 - .5 Name of Contractor's designated Health & Safety Site Representative and information showing proof of his/her competence and reporting relationship in Contractor's company.
 - .6 Names, competence and reporting relationship of other supervisory personnel used in the Work for occupational health and safety purposes.
- .3 On-site Contingency and Emergency Response Plan shall include:
- .1 Operational procedures, evacuation measures and communication process to be implemented in the event of an emergency.
 - .2 Evacuation Plan: site and floor plan layouts showing escape routes, marshalling areas. Details on alarm notification methods, fire drills, location of firefighting equipment and other related data.
 - .3 Name, duties and responsibilities of persons designated as Emergency Warden(s) and deputies.
 - .4 Emergency Contacts: name and telephone number of officials from:
 - .1 General Contractor and subcontractors.
 - .2 Pertinent Federal and Provincial Departments and Authorities having jurisdiction.
 - .3 Local emergency resource organizations.
 - .5 Harmonize Plan with Facility's Emergency Response and Evacuation Plan. Departmental Representative will provide pertinent data including name of PWGSC and Facility Management contacts.
- .4 On-site Communication Plan:

- .1 Procedures for sharing of work related safety information to workers and subcontractors, including emergency and evacuation measures.
 - .2 List of critical work activities to be communicated with Facility Manager which have a risk of endangering health and safety of Facility users.
 - .5 Address all activities of the Work including those of subcontractors.
 - .6 Review Health and Safety Plan regularly during the Work. Update as conditions warrant to address emerging risks and hazards, such as whenever new trade or subcontractor arrive at Work Site.
 - .7 Departmental Representative will respond in writing, where deficiencies or concerns are noted and may request re-submission of the Plan with correction of deficiencies or concerns.
 - .8 Post copy of the Plan, and updates, prominently on Work Site.
- 1.13 Safety Supervision
- .1 Employ Health & Safety Site Representative responsible for daily supervision of health and safety of the Work.
 - .2 Health & Safety Site Representative may be the Superintendent of the Work or other person designated by Contractor and shall be assigned the responsibility and authority to:
 - .1 Implement, monitor and enforce daily compliance with health and safety requirements of the Work.
 - .2 Monitor and enforce Contractor's site-specific Health and Safety Plan.
 - .3 Conduct site safety orientation session to persons granted access to Work Site.
 - .4 Ensure that persons allowed site access are knowledgeable and trained in health and safety pertinent to their activities at the site or are escorted by a competent person while on the Work Site.

- .5 Stop the Work as deemed necessary for reasons of health and safety.
 - .3 Health & Safety Site Representative must:
 - .1 Be qualified and competent person in occupational health and safety.
 - .2 Have site-related working experience specific to activities of the Work.
 - .3 Be on Work Site at all times during execution of the Work.
 - .4 All supervisory personnel assigned to the Work shall also be competent persons.
 - .5 Inspections:
 - .1 Conduct regularly scheduled safety inspections of the Work on a minimum bi-weekly basis. Record deficiencies and remedial action taken.
 - .2 Ensure that there is a follow up and confirm that remedial actions were taken.
 - .6 Collaborate with the Health and Safety Site Representative, if the Departmental Representative has designated one.
 - .7 Maintain on site the safety inspection reports and the site activity documentation.
- 1.14 Training
- .1 Use only skilled workers on Work Site who are effectively trained in occupational health and safety procedures and practices pertinent to their assigned task.
 - .2 Maintain employee records and evidence of training received. Make data available to Departmental Representative upon request.
 - .3 When unforeseen or peculiar safety-related hazard, or condition occur during performance of Work, follow procedures in place for Employee's Right to Refuse Work in accordance with Acts and Regulations of Province having jurisdiction and advise Departmental Representative verbally and in writing.
- 1.15 Minimum Site
- .1 Notwithstanding requirement to abide by federal and

<u>Safety Rules</u>		provincial health and safety regulations; ensure the following minimum safety rules are obeyed by persons granted access to Work Site: <ol style="list-style-type: none">.1 Wear appropriate PPE pertinent to the Work or assigned task; minimum being hard hat, safety footwear, safety glasses and hearing protection..2 Immediately report unsafe condition at site, near-miss accident, injury and damage..3 Maintain site and storage areas in a tidy condition free of hazards causing injury..4 Obey warning signs and safety tags.
	.2	Brief persons of disciplinary protocols to be taken for non-compliance.
<u>1.16 Correction of Non-Compliance</u>	.1	Immediately address health and safety non-compliance issues identified by authority having jurisdiction or by Departmental Representative.
	.2	Provide Departmental Representative with written report of action taken to correct non-compliance of health and safety issues identified.
	.3	Departmental Representative will stop Work if non-compliance of health and safety regulations is not corrected in a timely manner.
<u>1.17 Incident Reporting</u>	.1	Investigate and report the following incidents to Departmental Representative: <ol style="list-style-type: none">.1 Incidents requiring notification to Provincial Department of Occupational Safety and Health, Workers Compensation Board or to other regulatory Agency..2 Medical aid injuries..3 Property damage in excess of \$10,000.00,.4 Interruptions to Facility operations resulting in an operational lost to a Federal department in excess of \$5000.00.
	.2	Submit report in writing.
<u>1.18 Hazardous Products</u>	.1	Comply with requirements of Workplace Hazardous Materials Information System (WHMIS).

- .2 Keep MSDS data sheets for all products delivered to site.
 - .1 Post on site.
 - .2 Submit copy to Departmental Representative.

- 1.19 Blasting .1 Blasting or other use of explosives is not permitted on site without prior receipt of written permission from Departmental Representative.

- 1.20 Powder Actuated Devices .1 Use powder actuated fastening devices only after receipt of written permission from Departmental Representative.

- 1.21 Confined Spaces .1 Abide by occupational health and safety regulations regarding work in confined spaces.

- 1.22 Site Records .1 Maintain on Work Site copy of safety related documentation and reports stipulated to be produced in compliance with Acts and Regulations of authorities having jurisdiction and of those documents specified herein.
 - .2 Upon request, make available to Departmental Representative or authorized Safety Officer for inspection.

- 1.23 Posting of Documents .1 Ensure applicable items, articles, notices and orders are posted in conspicuous location on Work Site in accordance with Acts and Regulations of Province having jurisdiction.
 - .2 Post other documents as specified herein, including:
 - .1 Site specific Health and Safety Plan.
 - .2 WHMIS data sheets.

END OF SECTION

PART 1 - GENERAL

- 1.1 Related Sections .1 Section 01 74 21 Waste Management and Disposal Construction/Demolition.
- 1.2 References .1 WHMIS: Workplace Hazardous Materials Information System, Health Canada.
- .2 Transportation of Dangerous Goods Act. Transport Canada, updated 2009-08-27.
- .3 Guidelines for the Use of Explosives In or Near Canadian Fisheries Waters, Department of Fisheries and Oceans Canada, 1998.
- .4 MBCA: Migratory Birds Convention Act, Environment Canada, 1994.
- .5 Canadian Coast Guard Regulations, Department of Fisheries and Oceans Canada.
- .6 Canadian Shipping Act, Transport Canada, 2001.
- .7 AWWA: American Wood Preserver Association.
- 1.3 Definitions .1 Hazardous Material: Product, substance, or organism that is used for its original purpose; and that is either dangerous goods or a material that may cause adverse impact to the environment or adversely affect health of persons, animals, or plant life when released into the environment.
- .2 Wetlands: land where the water table is at, near or above the surface or which is saturated for a long enough period to promote such features as wet-altered soils and water tolerant vegetation. Wetlands include organic wetlands or "peatlands," and mineral wetlands or mineral soil areas that are influenced by excess water but produce little or no peat.
- .3 Watercourse: refers to the bed and shore of a river, stream, lake, creek, pond, marsh, estuary or salt-water body that contains water for at least part of each year.

.4 Alien species: refers to a species or subspecies introduced outside its normal distribution whose establishment and spread threaten ecosystems, habitats or species with economic or environmental harm.

.5 Buffer zone: a vegetated land that protects watercourses from adjacent land uses. It refers to the land adjacent to watercourses, such as streams, rivers, lakes, ponds, oceans, and wetlands, including the floodplain and the transitional lands between the watercourse and the drier upland areas.

1.4 Transportation

.1 Transport hazardous materials and hazardous waste in compliance with Federal Transportation of Dangerous Goods Act.

.2 Do not overload trucks when hauling material. Secure contents against spillage.

.3 Maintain trucks clean and free of mud, dirt and other foreign matter.

.4 Avoid potential release of contents and of any foreign matter onto highways, roads and access routes used for the Work. Take extra care when hauling hazardous materials. Immediately clean any spillage and soils.

.5 Before commencement of work, advise the Departmental Representative of the existing roads and temporary routes proposed to be used to access work areas and to haul material to and from the site.

1.5 Hazardous Material
Handling

.1 Handle and store hazardous materials on site in accordance with WHMIS procedures and requirements.

.2 Store all hazardous liquids in location and manner to prevent their spillage into the environment.

.3 Maintain written inventory of all hazardous materials kept on site. List product name, quantity and storage date.

.4 Keep MSDS data sheets on site for all items.

- 1.6 Petroleum, Oil and Lubricants
- .1 Comply with Federal and Provincial laws, regulations, codes and guidelines for the storage of fuel and petroleum products on site.
 - .2 Do not place fuel storage tanks and store fuel or other petroleum products within a 30 metre buffer zone of watercourses and wetlands. Do not fuel or lubricate equipment within this 30 metre buffer zone. Obtain approval from Departmental Representative of acceptable location on site for fuel storage and equipment service.
 - .3 Do not dump petroleum products or any other deleterious substances on ground or in the water.
 - .4 Be diligent and take all necessary precautions to avoid spills and contaminate the soil and water (both surface and subsurface) when handling petroleum products on site and during fueling and servicing of vehicles and equipment.
 - .5 Maintain on site appropriate emergency spill response equipment consisting of at least one 250-litre (55 gallon) overpack spill kit for containment and cleanup of spills.
 - .6 Maintain vehicles and equipment in good working order to prevent leaks on site.
 - .7 In the event of a petroleum spill, immediately notify the Departmental Representative and the Canadian Coast Guard (CCG) at 1-800-565-1633 (24 hour report line). Perform clean-up in accordance with all regulations and procedures stipulated by authority having jurisdiction.
- 1.7 Disposal of Wastes
- .1 Do not bury rubbish, demolition debris and waste materials on site.
 - .2 Dispose and recycle demolition debris and waste materials in accordance with project waste management requirements specified in section 01 74 21.
 - .3 Do not dispose of hazardous waste, volatile materials (such as mineral spirits, paints, thinners etc.) and

petroleum products into waterways, storm or sanitary sewers or in waste landfill sites.

- .4 Dispose of hazardous waste in accordance with applicable federal and provincial laws, regulations, codes and guidelines.
- .5 Concrete waste:
 - .1 Do not discharge residual or rejected concrete on site.
 - .2 Immediately clean any accidental release of concrete on site prior to solidification.
 - .3 Do not wash and clean concrete vehicles on site.
 - .4 Perform dumping of residual material and truck cleaning operations only at the concrete plant. Follow environmental regulations and good practices as approved by the Provincial Department of the Environment and other authorities having jurisdiction.

1.8 Water Quality

- .1 Conduct dredging or excavation work of a watercourse or wetland in such a manner to limit turbidity and reduce sediment suspension in the water to an absolute minimum at all times.
 - .1 Maintain appropriate production speed and momentum of the dredging or excavation equipment. Make adjustments as required and as approved by the Departmental Representative.
 - .2 Strategically position the excavating equipment and haul vehicles to avoid over the water swings of excavated material whenever possible.
- .2 Where work may affect the water quality adjacent to water intake lines used by Lobster Holding Facilities, Fish Processing Facilities and other harbour users, schedule work in cooperation with the Harbour Authority as directed by Departmental Representative to minimize interference and impact to harbour users.
- .3 Visually monitor the water turbidity of the surrounding areas adjacent to the work and up to the established limit of 200 metres.
 - .1 Should excessive change occur in the turbidity

beyond the dredge limit which differs from existing conditions of the surrounding water bodies, such as a distinct color difference; notify the Departmental Representative to obtain appropriate mitigation measures to be followed.

- .4 Water quality during suction dredging:
 - .1 Minimize out-fall of the dredge material at the disposal site by placing the pipeline outfall at or near the water level surface.
 - .2 Restrict vessel traffic adjacent to the disposal site to an absolute minimum to avoid the re-suspension of dredged material from propeller wash.

 - .5 Water contamination by preservative treated wood:
 - .1 Preservative treated lumber and timber, whether plant or site treated, shall be cured for a minimum of 30 days from date of the treatment application before their installation in areas which will be in contact with the water.
 - .2 Do not cut treated wood lumber over the surface of a watercourse or wetland.
 - .3 Do not use liquid applied preservative products over the surface of a watercourse or wetland.
 - .4 Wood treated with Chromate Copper Arsenate (CCA) or Ammoniac Copper Zinc Arsenate (ACZA) must be CSA or AWWA approved.
 - .5 Do not use timber and lumber treated with creosote, petroleum and pentachlorophenol for any part of the Work.

 - .6 Do not wash down equipment within a 30 meter buffer zone of a wetland, watercourse or other identified environmentally sensitive area.
- 1.9 Socioeconomic
Restrictions
- .1 Abide by municipal and provincial regulations for any restrictions on work performed during the night time and on flood lighting of the site. Obtain applicable permits.
 - .2 Place flood lights in opposite direction of adjacent residential and business areas.

- .3 Equipment and machinery with purposely designed mufflers to reduce noise on site to lowest possible level. Maintain mufflers in good operating condition at all times.
- 1.10 Bird and Habitat
- .1 Become knowledgeable with abide by the Migratory Birds Convention Act (MBCA) in regards to the protection of migratory birds, their eggs, nests and their young encountered on site and in the vicinity.
 - .2 Minimize disturbance to all birds on site and adjacent areas during the entire course of the Work.
 - .3 Do not approach concentrations of seabirds, waterfowl and shorebirds when anchoring equipment, accessing wharves or ferrying supplies.
 - .4 During night time work, position flood lights in opposite direction of nearby bird nesting habitat.
 - .5 Do not use beaches, dunes and other natural previously undisturbed areas of the site to conduct work unless specifically approved by the Departmental Representative.
 - .6 Should nests of migratory birds in wetlands be encountered during work, immediately notify Departmental Representative for directives to be followed.
 - .1 Do not disturb nest site and neighboring vegetation until nesting is completed.
 - .2 Minimize work immediately adjacent to such areas until nesting is completed.
 - .3 Protect these areas by following recommendations of Canadian Wildlife Service.
- 1.11 Fish and Fish Habitat
- .1 Be aware of the risk for contamination of the fish habitat at the site as a result of alien species being introduced in the water.
 - .2 To minimize the possibility of fish habitat contamination, all construction equipment which will be immersed into the water of a watercourse, or has the possibility of

coming into contact with such water during the course of the work, must be cleaned and washed to ensure that they are free of marine growth and alien species.

- .1 Equipment shall include boats, barges, cranes, excavators, haul trucks, pumps, pipe lines and other all miscellaneous tools and equipment previously used in a marine environment.
- .3 Cleaning and washing of equipment shall be performed immediately upon their arrival at the site and before use in or over the body of water.
- .4 Conduct cleaning and washing operations as follows:
 - .1 Scrap and remove heavy accumulation of mud and dispose appropriately.
 - .2 Wash all surfaces of equipment by use of a pressurized fresh water supply.
 - .3 Immediately follow with application of a heavy sprayed coating of undiluted vinegar or other environmentally approved cleaning agent to thoroughly remove all plant matter, animals and sediments.
 - .4 Check and remove all plant, animal and sediment matter from the all bilges and filters.
 - .5 Drain standing water from equipment and let fully dry before use.
 - .6 Upon removal from the water, drain standing water from equipment and let fully dry before removal off the site.
- .5 Do not perform cleaning and wash down within a 30 metre buffer zone of a wetland, watercourse or other identified environmentally sensitive area.
- .6 Record of Assurance Logbook:
 - .1 Maintain an on-going log of past and present usage and wash downs of all equipment to illustrate mitigation measures undertaken against fish habitat contamination by alien species.
 - .2 Write data in a hard cover bound logbook,
 - .3 Include the following:
 - .1 Date and location where equipment was previously used in a watercourse or

- wetland;
- .2 Type of work performed.
- .3 Dates of wash down for each piece of equipment;
- .4 Cleaning method and cleaning agent(s) used.

- .7 Keep Record of Assurance Logbook updated from project to project. Upon request, submit logbook to Departmental Representative for review.

- .8 Abide by requirements and recommendations of the Federal Department of Environment and the Department of Fisheries and Oceans - Habitat Protection and Sustainable Development Branch in cleaning and wash down of equipment.

- 1.12 Air Quality .1 Keep airborne dust and dirt resulting from the work on site to an absolute minimum.
- .2 Apply dust control measures to roads, parking lots and work areas.
- .3 Spray surfaces with water or other environmentally approved product. Use purposely suited equipment or machinery and apply in sufficient quantity and frequency to provide effective result and continued dust control during the entire course of the work.
- .4 Do not use oil or any other petroleum products for dust control.

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

————— END OF SECTION —————

PART 1 - GENERAL

- 1.1 Inspection .1 Give timely notice requesting inspection of Work designated for special tests, inspections or approvals by Departmental Representative or by inspection authorities having jurisdiction.
- .2 In accordance with the General Conditions, Departmental Representative may order any part of Work to be examined if Work is suspected to be not in accordance with Contract Documents.
- .3 If Contractor covers or permits to be covered Work designated for special tests, inspections or approvals before such is made, uncover Work until particular inspections or tests have been fully and satisfactorily completed and until such time as Departmental Representative gives permission to proceed.
- .4 Pay costs to uncover and make good work disturbed by inspections and tests.
- 1.2 Testing .1 Tests on materials, equipment and building systems as specified in various sections of the Specifications is the responsibility of the Contractor except where stipulated otherwise.
- .2 Unspecified tests may also be made by Departmental Representative, at the discretion of the Departmental Representative. The costs of these tests will be paid for by the Departmental Representative.
- .3 Where tests or inspections reveal work not in accordance with contract requirements, Contractor shall pay costs for additional tests and inspections incurred by Departmental Representative as required to verify acceptability of corrected work.
- 1.3 Independent Inspection Agency .1 Departmental Representative may engage and Agencies for purpose of inspecting and testing portions of Work except for the following which remain part of Contractor's responsibilities:

- .1 Inspection and testing required by laws, ordinances, rules, regulations or orders of public authorities.
 - .2 Inspection and testing performed exclusively for Contractor's convenience.
 - .3 Tests as specified within various sections designated to be carried out by Contractor under the supervision of Departmental Representative.
- .2 Provide sufficient advance notice to Departmental Representative of time when the Work will be ready for testing by designated Testing Agency in order for Departmental Representative to make attendance arrangements with such Agency. When directed by Departmental Representative notify the Agency directly.
 - .3 When specified or directed, submit representative samples of materials, in required quantities, to Testing Agency for testing purposes. Submit with reasonable promptness and in an orderly sequence so as not to cause delay in Work.
 - .4 Provide labour and facilities to obtain, handle and deliver samples.
 - .5 Provide sufficient space on site for Testing Agency's exclusive use to store equipment and cure test samples.
 - .6 Employment of Independent Inspection and Testing Agencies by Departmental Representative does not relax responsibility to perform Work in accordance with Contract Documents.
- 1.4 Access to Work
- .1 Facilitate Departmental Representative's access to Work. If part of Work is being fabricated at locations other than construction site, make preparations to allow access to such Work whenever it is in progress.
 - .2 Furnish labour and facility to provide access to the work being inspected and tested.
 - .3 Co-operate to facilitate such inspections and tests.

- 1.5 Rejected Work
- .1 Remove and replace defective Work, whether result of poor workmanship, use of defective or damaged products and whether incorporated in Work or not, which has been identified by Departmental Representative as failing to conform to Contract Documents.
 - .2 Make good damages to new and existing construction and finishes resulting from removal or replacement of defective work.

END OF SECTION

PART 1 - GENERAL

- 1.1 Requirements of Regulatory Agencies .1 Prior to use, have weigh scales certified as meeting requirements of Statutes of Canada, Chapter 36, Weights and Measures Act 1970-71-72 and subsequent amendments. Display certificate in a prominent position.
- 1.2 Measurement Procedures .1 Include costs of certification, installation, maintenance and removal of scales or use of local commercial scales in items of work to be measured by mass.
- 1.3 Equipment .1 Weigh scales: electronic truck scale of sufficient capacity to weigh loaded vehicles in a single operation.
- .2 Existing certified commercial scales may be utilized if available and approved by Departmental Representative.
- .3 The supply of labor, materials, tools, equipment, protection, transportation, administration fees, profits and necessary financing, etc., to complete the work stipulated in this project, shall be included in each of the items at the locations.
- 1.4 Scale House .1 To enclose mass indicator and in which Departmental Representative's representative can perform work and maintain records.
- .2 To be weatherproof and have minimum 750 lx of illumination, one sliding window facing scale platform, one other window for cross ventilation, shelf desk at least 0.6 x 1.8 m, and heat to maintain inside temperature at 20°C. The entrance door is not to face onto scale platform.
- 1.5 Operation .1 Departmental Representative's inspector at scales will monitor weighing of materials when available.
- .2 Provide sufficient number of weigh tickets in triplicate, with consecutive serial numbers. Obtain Departmental Representative's approval of design.
- .3 Weigh slips to be signed by the Departmental Representative's inspector at time of delivery.

- 1.6 Maintenance
- .1 Maintain scale platform and scale mechanism clean and free from gravel, asphalt, snow, ice and debris.
 - .2 Maintain approach and exit ramps in good condition free from sags and ruts.
 - .3 Have scales recertified if requested by Departmental Representative.

END OF SECTION

PART 1 - GENERAL

- 1.1 Site Access and Parking .1 Provide and maintain adequate access to project site.
- .2 If authorized to use existing roads for access to project site, maintain such roads for duration of contract and make good and repair damage resulting from Contractor's use of roads.
- 1.2 Site Office .1 Contractor will be responsible to provide and maintain a site office, if required, including electricity, heat, lights, telephone and internet. Locate site office as directed by Departmental Representative.
- .2 Provide all required facilities and shelter by legislation or code for use of workers and Departmental Representative and/or their identified field staff.
- .3 The Departmental Representative will pay for long distance charges.
- 1.3 Site Utilities .1 Provide sanitary facilities, fresh water and electricity, for work force and Departmental Representative and/or their identified field staff in accordance with governing regulations and ordinances. Contractor will make his own arrangements for utilities and they will be provided at Contractor's expense.
- .2 Post notices and take such precautions as required by local health authorities. Keep area and premises in sanitary condition.
- 1.4 Material Storage .1 Locate site storage trailers where directed by Departmental Representative. Place in location of least interference with existing Facility operations.
- .2 Material storage space on site is limited. Coordinate delivery to minimize storage period on site before being needed for incorporation into work.
- 1.5 Power .1 Arrange, pay for and maintain temporary electrical power supply in accordance with governing regulations and ordinances.

- .2 Supply and install all temporary facilities for power such as pole lines, meter socket, underground cables, etc. as required and to approval of local power supply authority.
- 1.6 Water Supply .1 Arrange, pay for and maintain temporary water supply in accordance with governing regulations and ordinances.
- 1.7 Construction Sign and Notices .1 Upon request by Departmental Representative, erect a self-supporting project sign in location indicated.
 - .2 Departmental Representative will provide a vinyl sign facing for installation by Contractor on sign framework. Sign frame to be plywood face of approximately 1200 mm x 2400 mm in size complete with required wood framing at 400 mm o.c. and support posts.
 - .3 Install sign plumb and level in neat wood framework and securely anchor in ground by posts to withstand wind pressure of 160 km/h.
 - .4 Contractor or subcontractor advertisement signboards are not permitted on site.
 - .5 Safety and Instruction Signs and Notices:
 - .1 Signs and notices for safety and instruction shall be in both official languages or commonly understood graphic symbols conforming to CAN3-Z321.
 - .6 Maintenance and Disposal of Site Signs:
 - .1 Maintain approved signs and notices in good condition for duration of project and dispose of off-site on completion of project or earlier if directed by Departmental Representative.
- 1.8 Removal of Temporary Facilities .1 Remove temporary facilities from site when work is completed.

END OF SECTION

PART 1 - GENERAL

- 1.1 General .1 Conduct cleaning and disposal operations to comply with local ordinances and anti-pollution laws.
- .2 Store volatile waste in covered metal containers, and remove from premises at end of each working day.
- 1.2 Cleaning During Construction .1 Maintain work site in a tidy condition, free from accumulations of waste material and debris. Clean areas on a daily basis.
- .2 Provide on-site containers for collection of waste materials and debris.
- .3 Use separate collection bins, clearly marked as to purpose, for source separation and recycling of waste and debris in accordance with waste management requirements specified.
- .4 Remove waste materials, and debris from site on a daily basis.
- 1.3 Final Cleaning .1 In preparation for acceptance of the project on an interim or final certificate of completion perform final cleaning.
- .2 Broom clean and wash exterior paved surfaces and walks; rake clean other surfaces of grounds.
- .3 Ensure work site and adjacent access and wharf structures are returned to pre-construction conditions.

————— END OF SECTION —————

PART 1 - GENERAL

- 1.1 Related Sections .1 Section 01 35 44 Environmental Protection Procedures for Marine Work.
- 1.2 General .1 Carry out work placing maximum emphasis on the areas of:
- .1 Waste reduction;
 - .2 Diversion of waste from landfill and;
 - .3 Material Recycling.
- 1.3 Waste Reduction .1 Develop waste reduction strategy for work.
- .2 Structure program to prioritize actions, with waste reduction as first priority, followed by salvage and recycling effort, then disposal as solid waste.
 - .3 Identify materials and equipment to be:
 - .1 Salvaged for resale by Contractor.
 - .2 Sent to recycling facility.
 - .3 Sent to waste processing/landfill site for their recycling effort.
 - .4 Disposed of in approved landfill site.
 - .4 Reduce construction waste during installation work. Undertake practices which will minimize waste and optimize full use of new materials on site, such as:
 - .1 Use of a central cutting area to allow for easy access to off-cuts;
 - .2 Use of off-cuts for blocking and bridging elsewhere.
 - .3 Use of effective and strategically placed facilities on site for storage and staging of left-over or partially cut materials (such as plywood, dimension timber, etc.) to allow for easy incorporation into work whenever possible avoiding unnecessary waste.
 - .5 Develop other strategies and innovative procedures to reduce waste.
- 1.4 Material Source Separation Process .1 Develop and implement material source separation process at commencement of work as part of

mobilization and waste management at site.

- .2 Provide on-site facilities to collect, handle and store anticipated quantities of reusable, salvageable and recyclable materials.
 - .3 Establish methods whereby hazardous and toxic waste materials, and their containers, encountered or used in the course work are properly isolated, stored on site and disposed in accordance with applicable laws and regulations from authorities having jurisdiction.
- 1.5 Disposal Requirements
- .1 Dispose of waste only at approved waste processing facility or landfill sites approved by authority having jurisdiction.
 - .2 Contact the authority having jurisdiction prior to commencement of work, to determine what, if any, construction waste materials have been banned from disposal in landfills. Take appropriate action to isolate such banned materials at site of work and dispose in strict accordance with provincial and municipal regulations.
 - .3 Collect, bundle and transport salvaged materials to be recycled in separated categories and condition as directed by recycling facility. Ship materials only to approved recycling facilities.
 - .4 Sale of salvaged items by Contractor to other parties not permitted on site.
- 1.6 Removal
- .1 Remove in their entirety all materials and objects specified for removal including all fastenings. Carefully remove materials designated to be reused.

END OF SECTION

PART 1 - GENERAL

- 1.1 Related Sections .1 Section 01 78 00 Closeout Submittals.
- 1.2 Description .1 Administrative procedures preceding inspection and acceptance of Work by Departmental Representative.
- 1.3 Inspection and Declaration .1 Contractor's Inspection: Coordinate and perform, in concert with subcontractors, an inspection and check of all Work. Identify and correct deficiencies, defects, repairs and perform outstanding items as required to complete work in conformance with Contract Documents.
- .1 Notify Departmental Representative in writing when deficiencies from Contractor's inspection have been rectified and that Work is deemed to be complete and ready for Departmental Representative's inspection of the completed work.
- .2 Departmental Representative's Inspection: Accompany Departmental Representative during all substantial and final inspections of the Work.
- .1 Address defects, faults and outstanding items of work identified by such inspections.
- .2 Advise Departmental Representative when all deficiencies identified have been rectified.
- .3 Note that Departmental Representative will not issue a Certificate of Substantial Performance of the work until such time that Contractor performs following work and turns over the specified documents:
- .1 The documents required as per Section 01 78 00 closeout submittals.
- .4 Correct all discrepancies before Departmental Representative will issue the Certificate of Completion.

END OF SECTION

PART 1 - GENERAL

- 1.1 Section Includes .1 Project Record Documents.
- 1.2 Project Records Documents .1 Departmental Representative will provide 2 white print sets of contract drawings and 2 copies of Specifications Manual specifically for "as-built" purposes.
 - .2 Maintain at site one set of the contract drawings and specifications to record actual as-built site conditions.
 - .3 Maintain up-to-date, real time as-built drawings and specifications in good condition and make available for inspection by the Departmental Representative upon request.
 - .4 As-Built Drawings:
 - .1 Record changes in red ink on the prints. Mark only on one set of prints and at completion of work, neatly transfer notations to second set (also by use of red ink).
 - .2 Submit both sets to Departmental Representative prior to application for Certificate of Substantial Performance.
 - .3 Stamp all drawings with "As-Built Drawings". Label and place Contractor's signature and date.
 - .4 Show all modifications, substitutions and deviations from what is shown on the contract drawings or in specifications.
 - .5 Record following information:
 - .1 Depths of various elements of foundation in relation to survey datum.
 - .2 Field changes of dimension and detail;
 - .3 Location of all capped or terminated services and utilities;
 - .4 All design elevations, sections, plans and details dimensioned and marked-up to consistently report finished installation conditions;
 - .5 Any details produced in the course of the contract by the Departmental Representative to supplement or to change existing design drawings;

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- .6 All change orders issued over the course of the contract must be documented on the finished as-built documents, accurately and consistently depicting the changed condition as it applies to all affected drawing details.

- .5 As-built Specifications: legibly mark in red each item to record actual construction, including:
 - .1 Manufacturer, trade name, and catalogue number of each product actually installed, particularly items substituted from that specified.
 - .2 Changes made by Addenda and Change Orders.
 - .3 Mark up both copies of specifications; stamp "as-built", sign and date similarly to drawings as per above clause.

- .6 Maintain As-built documents current as the contract progresses. Departmental Representative will conduct reviews and inspections of the documents on a regular basis. Failure to maintain as-built current and complete to satisfaction of the Departmental Representative shall be subject to financial penalties in the form of progress payment reductions and holdback assessments.

END OF SECTION
