

Part 1 **GENERAL**

1.1 Summary

- .1 Complete removal and disposal of the existing creosote and treated timber cribwork and ballast structures 301 and 406 as indicated on the drawings.

1.2 Related Requirements

- .1 Section 01 33 00 – Submissions and Shop Drawings.
- .2 Section 02 41 16 – Sitework, Demolition and Removal.
- .3 Section 01 35 44 – Environmental Protection Procedures for Marine Work.
- .4 Section 31 23 10 – Excavating and Backfilling.

1.3 Price And Payment Procedures

- .1 Complete removal and disposal of the treated and creosote cribwork structure and ballast not reused in the new work, will be paid in a lump sum payment.
 - .1 Removed ballast can be reused as core material, see section 35 31 23.13 – Rock Protection.
 - .2 Complete removal and disposal of pressure treated and creosote timber from the existing structure 301 and 406. Disposal must be done at a New Brunswick Registered Disposal Site. Disposal slips must be scanned and sent to the *Departmental Representative*.
 - .1 For bidding purposes, the Contractor will assume that all timber to be removed is creosote timber.
 - .3 Includes all excavation, loading, hauling, disposal.
 - .4 Contractor shall obtain and pay for all necessary permits and disposal fees at an approved waste disposal site.
 - .5 Included in this bid item is the Contractor's submittal of a stamped demolition plan by a structural engineer registered in the Province of New Brunswick, required prior any work is to commence.

1.4 Reference Standards

- .1 Department of Justice Canada (Jus)
 - .1 Canadian Environmental Assessment Act (CEAA), 2012
 - .2 Canadian Environmental Protection Act (CEPA), 2012
 - .1 SOR/2003-2, On-Road Vehicle and Engine Emission Regulations
 - .2 SOR/2006-268, Regulations Amending the On-Road Vehicle and Engine Emission Regulations
 - .3 Transportation of Dangerous Goods Act (TDGA), 1992, c. 34
 - .4 Motor Vehicle Safety Act (MVSA), 1995
 - .5 Hazardous Materials Information Review Act, 1985
- .2 U.S. Environmental Protection Agency (EPA)
 - .1 EPA CFR 86.098-10, Emission standards for 1998 and later model year Otto-cycle heavy-duty engines and vehicles

- .2 EPA CFR 86.098-11, Emission standards for 1998 and later model year diesel heavy-duty engines and vehicles
 - .1 EPA 832/R-92-005, Storm Water Management for Construction Activities: Developing Pollution Prevention Plans and Best Management Practices

1.5 Administrative Requirements

- .1 Pre-Demolition Meetings.
 - .1 Convene pre-installation meeting 1 week before beginning work of this Section, with *Departmental Representative*, Small Craft Harbour Representative and the Miller Brook Harbour Authority Representative. Contact information will be provided at the start-up meeting.
 - .1 Verify project requirements.
 - .2 Verify existing site conditions adjacent to demolition work, and it's condition prior to starting construction.
 - .3 Coordinate with other construction sub trades
 - .4 Waste reporting requirements
 - .2 Ensure key personnel, site supervisor, project manager, subcontractor representatives attend.

1.6 Action And Informational Submittals

- .1 Action Submittals: Provide the following submittals before starting any work of this Section:
 - .1 Shop Drawings: Submit drawings stamped and signed by professional engineer registered or licensed in Province of New Brunswick, Canada as follows:
 - .1 Submit for review and approval selective site demolition drawings, diagrams or details showing sequence of selective site demolition.
 - .2 Submit in accordance with Section 01 33 00 – Submissions and Shop Drawings.
 - .3 Landfill Records: Indicate receipt and acceptance of wastes by a landfill facility licensed to accept hazardous wastes.

1.7 Quality Assurance

- .1 Regulatory Requirements: ensure Work is performed in compliance with CEPA, CEAA, TDGA, and applicable Provincial regulations.
- .2 Comply with hauling and disposal regulations of Authority Having Jurisdiction.

1.8 Site Conditions

- .1 Environmental protection:
 - .1 Ensure Work is done in accordance with Section 01 35 44 – Environmental Protection Procedures for Marine Work.
 - .2 Ensure Work does not adversely affect adjacent watercourses, groundwater and wildlife, or contribute to excess air and noise pollution.
 - .3 Fires and burning of waste or materials is not permitted on site.
 - .4 Burying of rubbish waste materials is not permitted.
 - .5 Disposal of waste of volatile materials including but not limited to, mineral spirits, oil, petroleum-based lubricants, or toxic cleaning solutions into watercourses, storm or sanitary sewers, is not permitted.

- .6 Ensure proper disposal procedures are maintained throughout the project.
- .2 Pumping of water containing suspended materials into watercourses, storm or sanitary sewers or onto adjacent properties, is not permitted.
- .3 Control disposal or runoff of water containing suspended materials or other harmful substances in accordance with authorities having jurisdiction.

1.9 Existing Structure

- .1 Old Cribwork – Structure 301
 - .1 The Wharf structure to be demolished is in an advanced state of deterioration and is not considered safe for use as a working platform.
 - .1 There is continuous pieces of timber and ballast that are washing out resulting in materials scattered around the original structure. The work under this item includes picking up any pieces washed ashore and any material still around the structure on the bottom ocean floor.
 - .2 Site elements that will be demolished are based on their condition on date that tender is accepted, at time of examination prior to tendering.

Part 2 PRODUCTS

Not Applicable

Part 3 EXECUTION

3.1 Examination

- .1 Survey existing conditions and correlate with requirements indicated to determine extent of selective site demolition required.
- .2 *Departmental Representative does not guaranty* that existing conditions are the same as those indicated in Project Record Documents.
- .3 Inventory and record the condition of items being removed and salvaged.

3.2 Preparation

- .1 Temporary Erosion and Sedimentation Control:
 - .1 Provide and install a silt boom around the structure prior to starting any demolition.
 - .2 Provide temporary erosion and sedimentation control measures to prevent soil erosion and discharge of soil-bearing water runoff or airborne dust to adjacent properties according to: requirements of authorities having jurisdiction, Contractor's sediment and erosion control plan, specific to site, that complies with EPA 832/R-92-005 or requirements of authorities having jurisdiction, whichever is more stringent.
 - .3 Inspect, repair, and maintain erosion and sedimentation control measures during demolition.
 - .4 Remove erosion and sedimentation controls and restore and stabilize areas disturbed during removal after completion of demolition work.
- .2 Remove and excavate all materials as indicated on the drawings.

3.3 Removal From Site

- .1 Remove all materials from site on a continuous manner to prevent any stockpiles to be in the way of the harbor users.

3.4 Restoration

- .1 Any zones including areas outside the construction zones that are disturbed or damaged during construction, must be restored to its original state or better.
 - .1 *Departmental Representative* will be the sole judge of what is deemed acceptable or not.

3.5 Cleaning

- .1 Progress Cleaning: clean in accordance with Section 01 74 11 – Cleaning.
 - .1 Leave Work area clean at end of each day.
 - .2 Remove debris, trim surfaces and leave work site clean, upon completion of Work
 - .3 Use cleaning solutions and procedures which are not harmful to health, are not injurious to plants, and do not endanger wildlife, adjacent water courses or ground water.
- .2 Final Cleaning: upon completion remove surplus materials, rubbish, tools and equipment in accordance with Section 01 74 11 – Cleaning.

END OF SECTION

Part 1 GENERAL

1.1 General Requirements

- .1 A Notice to Shipping is to be issued prior to commencement and upon completion of work.
- .2 During construction, any vessels or barges utilized must be marked in accordance with the provisions of the Canada Shipping Act Collision Regulations.
- .3 Upon completion of the project, a written Notice to Mariners must be issued.

1.2 Protection

- .1 Protect existing objects designated to remain. In event of damage, immediately replace or make repairs to approval of and at no additional cost to the *Departmental Representative*.
- .2 Remove all floating debris from water on a routine and timely basis.

1.3 Measurement for Payment

- .1 Removal and Reinstallation or disposal for construction operations will include:
 - .1 Mobilization and Demobilization of all equipment necessary to make work progress during the entire contract.
 - .2 Submittal of environmental mitigation plan and its implementation(s).
 - .3 Submittal of a Health and Safety Plan, including provision for Covid-19 protection and its implementation (s).
 - .4 Gain access to the construction zone.
 - .1 A temporary trestle can be constructed between the concrete structure and construction zone. If the Contractor chooses this option, a trestle construction plan stamped by a registered structural engineer from the Province of New Brunswick must be submitted for review.
 - .5 Displacing the existing Armour Stone to gain access to the existing material prior to starting the reconstruction of structure 301. If material is suitable to be reused as either core stone or filter stone material, the contractor will do as such, if not, the material will be removed and disposed of at a registered disposal facility, see section 02 41 13.
 - .6 Reshape the existing material as required, prior to adding new material.
 - .1 Contractor must reuse the existing material if deemed suitable, not displace the material outside the work zone. Rock material displaced outside the work zone is not subject to any payment unless it is disposed of at a registered disposal facility.
 - .7 Removal of all other items required for the progress of the work will not be measured separately for payment, it will be considered incidental to this contract.
 - .8 All necessary demolition to access the work areas, and complete restoration of the areas after reconstruction of structure 301 is completed.
 - .9 All necessary excavation will be included in this section.
 - .10 Supply, maintenance, and relocation as required of a silt boom to prevent any silt from entering the watercourse.
 - .2 All items listed under this section will be paid in a lump sum price.
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Part 2 PRODUCTS

NOT APPLICABLE

Part 3 EXECUTION

3.1 Execution

- .1 Inspect site and verify with *Departmental Representative* objects designated for removal.
- .2 Locate and protect utility lines. Preserve in operating condition active utilities traversing site.

3.2 Existing Structures

- .1 See section 02 14 13 – Selective Site Demolition.

3.3 Removal

- .1 Remove in their entirety all materials and objects specified for removal.
- .2 Do not disturb adjacent work designated to remain in place.

3.4 Disposal of Material

- .1 All demolished materials, except materials designated to be reused, will become property of contractor and will be removed from site and disposed of to satisfaction of *Departmental Representative* and in accordance with environmental guidelines. It is the sole responsibility of the contractor to dispose of all demolished materials at an approved disposal site. Ensure that disposal site is approved and willing to accommodate any materials disposed of from work site.
- .2 Contractor shall obtain and pay for all necessary permits and disposal fees for use of an approved waste disposal site.

3.5 Restoration

- .1 Upon completion of work, remove debris, trim surfaces, and leave work site in clean condition.
- .2 Reinstate areas and existing works outside areas of demolition to conditions that existed prior to commencement of work.

END OF SECTION