

## PART 1 - GENERAL

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| <u>1.1 Description</u>   | .1 | This section specifies requirements for the removal and temporary storage of materials to be reused in the work, or to remain property of the owner, removal or disposal by others, reinstatement of materials to be reused and the disposal of construction waste materials at approved disposal sites. The work includes: |
|                          | .1 | The partial demolition and off-site removal of the wharf Structures 406, 408, 409 and 411, to the lines and grades as shown on the plan.  |
|                          | .2 | The removal, transportation, temporary storage and stockpiling of items designated for salvage or reuse under 1.4 Construction/Demolition.  |
|                          | .3 | The removal/reinstatement of all existing material as may be required to properly install the new work of this contract.  |
| <u>1.2 Related Work</u>  | .1 | Section 01 10 10 General Instructions.  |
|                          | .2 | Section 01 14 10 Scheduling and Management of Work.   |
|                          | .3 | Section 01 35 44 Environmental Protection Procedures for Marine Work.   |
|                          | .4 | Section 01 74 21 Waste Management and Disposal, Construction/Demolition.  |
|                          | .5 | Section 05 50 00 Metal Fabrication.   |
|                          | .6 | Section 31 23 10 Excavation and Backfill.   |
|                          | .7 | Section 35 31 24 Rock Protection.   |
| <u>1.3 Salvage Items</u> | .1 | The following items are to remain the property of the Owner and are to be carefully removed from the existing work and stockpiled on site in area designated by the Departmental Representative.  |
|                          | .1 | Ladders on the harbour face of Structures 406 and 409.  |
|                          | .2 | Timber Fender piles on the harbour face of Structure 406, 409, or 411 that are selected by  |

- the Departmental Representative to be salvaged and remain the property of the Owner.
- .3 Steel Bollards or Mooring Cleats on the harbour face of Structures 406, 408 and 409 that are selected by the Departmental Representative to be salvaged and remain the property of the Owner.
- .4 Ballast Stone in existing Structures 406 and 409 designated by Departmental Representative to be of suitable quality for salvage.
  - .1 Contractor to sort out and stockpile best quality material for use as filter stone for slope protection.
  - .2 Material selected for re-use in the work to be approved by Departmental Representative.
  - .3 Quantity not re-used by Contractor for slope protection shall be placed at alternate location on site or stockpiled in area designated by the Departmental Representative.
  - .4 Existing armour stone on west slope of containment area at east end of Structure 409 to be salvaged for re-use as slope protection on new work. Remove and stockpile on site in area designated by Departmental Representative. Include the costs of this work under item 1.4.1 Construction/Demolition. Installation on slope of new work will be included in the Armour Stone pay item.
  - .5 All existing light, power poles and guy wires designated for removal to be taken down and set aside for pick-up by NB Power. Light fixtures to be removed by NB Power. Refer to Section 26 05 13 Electrical Removal for additional requirements.
- .2 All excess materials in item .1 above, not required by Departmental Representative, is to become the property of the Contractor, removed from site by the Contractor, transported and disposed of at an approved waste facility.

#### 1.4 Measurement Procedures .1

Construction/Demolition: The costs associated with the handling of removal, temporary storage of materials to be reused, salvage materials, reinstallation of the materials to be reused, including all labour, plant, equipment and necessary materials, will constitute a lump sum price, (LS), and will consist of, but not necessarily be limited to, the following:

##### .1 Removal:

- .1 The removal of the timber wheel guard, fender piles, bollards, mooring cleats, ladders and steel holdfasts where shown on plan.
- .2 The partial removal of the wharf cribwork and ballast rock where shown on plan and that interferes with the new work.
- .3 The removal, temporary storage and reinstatement of all material(s) and equipment that interferes with the installation of the new work.
- .4 Temporary services.
- .5 Cutting, removal and disposal of steel H-piles and wheel guard assemblies including timber guards, grab bars, holdfasts, chocks and ladder rungs on SSP sections.
- .6 All necessary excavation to complete work, not covered under other payment sections.
- .7 All necessary excavation of the harbour seabed bottom to complete the work.
  - .1 Contractor to make arrangements to remove and dispose of any excess harbour bottom material removed to allow for the installation of the new work. This item will not be measured and will be considered incidental to the work of this section.
- .8 Demolition and removal of the existing concrete in the deck of Structure 411 as required to install the new electrical conduits and watermain pipe.
- .9 The removal and disposal/recycling of all existing asphalt pavement to limits shown

- and as required to install the work of this contract.
- .10 All demolition and removal as required for the construction of the structure.
  - .11 The removal of the dredged spoils that interfere with the new work and disposal in the containment cell located on site.
  - .12 The temporary removal, relocation and reinstallation of electrical services such as wires/cables/conduit/receptacle outlets, power poles and any other services to allow for new work.
  - .13 All work as per Environmental requirements.
  - .14 Snow/ice removal, if required, to allow access to, and work on site.
- .2 Concrete Deck Slab and Beam Removal: Removal and disposal of the concrete deck and beams will be measured for payment in cubic metres, (M<sup>3</sup>), of material disposed of at an approved waste processing facility, based on the dimensions specified. Included will be the cost for transportation, handling and tipping fee to dispose of the waste material at the approved disposal site. The Contractor must provide copies of the weight slips from the land fill site to the Departmental Representative with the requests for payment.
- .1 This item consists of all precast and cast-in-place concrete components of the deck systems on Structures 406 and 409 including all bollard and mooring cleat bases, and concrete wheel guard.
  - .2 This item includes the removal of the two transition deck slabs at each end of Structure 411.
  - .3 Salvage of the existing precast Structure 409 for re-use by the Contractor off-site is an acceptable alternative to demolition and disposal.
- .3 Treated Timber Disposal: The disposal of the treated timber will be measured for payment in tonnes, (Tonnes), of material disposed of at an approved land fill disposal site. Included will be the cost for transportation, handling and tipping fee to dispose of the waste material

at the approved disposal site. The Contractor must provide copies of the weight slips from the land fill site to the Departmental Representative with the request for payments.

- .4 The Contractor, if requested by the Departmental Representative, must provide the locations of the disposal sites and confirmation of approval that the sites will receive these materials, before the start of demolition.
- .5 Mobilization and demobilization: There will not be any separate item for payment for mobilization and demobilization. Include the cost for this work in the above item 1.4.1 Construction/Demolition for payment.
- .6 Temporary Facilities: There will not be any separate item for payment for the provision and maintenance of temporary office for the Departmental Representative, contractors on site office, equipment storage facility, portable toilets, etc. Include the cost for this work in the above item 1.4.1 Construction/Demolition for payment.
- .7 Barriers/Security Devices: There will not be any separate measurement for payment for the provision and maintenance of barriers and security devices. Include the cost for this work in the above item 1.4.1 Construction/Demolition.

PART 2 - PRODUCTS NOT APPLICABLE

### PART 3 - EXECUTION

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| <u>3.1 Execution</u> | .1 Inspect site and verify with Departmental Representative materials and designated for removal.  |
| <u>3.2 Removal</u>   | .1 Remove in their entirety all materials and objects specified for removal including all fastenings. Carefully remove materials designated to be reused, or to be salvaged and store or stockpile on site in areas designated by the Departmental Representative. |
|                      | .1 Any material that the Contractor salvages which   |

are to be recycled for re-use will be properly cleaned, and have all spikes or any other fasteners removed. The material will be neatly stockpiled on site in strapped bundles.

- .2 Do not disturb adjacent work designated to remain in place.
- .3 Verify with Departmental Representative items to be reused in the work.

3.3 Stockpiling

- .1 Obtain the approval of the Department Representative for the use of a storage site for the material to be re-used in the work.

3.4 Concrete Deck

- .1 The concrete deck is to be disposed of at an approved land fill 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.