

**Wall Restoration
Structure 1 and 1A
Project No. R.057268.001**

AMENDMENT NO. 2

Date: April 17, 2013

SECTION 1 GENERAL INFORMATION

This document is issued as Amendment No. 2 for PWGSC Project No. R.057268.001.

SECTION 2 SPECIFICATIONS

.1 SECTION 31 62 16.13 – STEEL SHEET PILES

Clause 1.7 - MEASUREMENT PROCEDURES:

Add:

.12 Removal and disposal of up to three (3) existing timber piles located in channel in front of Structure 1 will be measured as a lump sum."

SECTION 3 QUESTIONS

Question 01:

Timber piles in the riverbed appear to interfere with the SSP installation. The tender document has removal of conflicting piles inclusive with the driving price. Can this be a separate pay item?

Response 01:

Removal of existing timber piles that conflict with the new SSP dockwall at Structure 1 has been amended and will be measured for payment as a lump sum item in the tender form. The lump sum item provides for the removal of three timber piles using the contractor's pile driving /extraction equipment. In addition, the steel sheet pile dockwall alignment may be adjusted by up to 500 mm to minimize interference from the existing timber piles, as determined by the Departmental Representative. The adjusted SSP dockwall must remain in a generally straight line and the offset may be taken up at the junction wall at Structures 1 and 1A.

Question 02:

The drawings show an existing sanitary force main running parallel to the work along Structure 1 in the grassed area. Can we get this located in the field prior to the tender submission? Can we get some information on the depth of bury of this pipe, what type of pipe it is (transite, plastic, steel), how old the pipe is and if it can be isolated in the event that it is damaged?

Response 02:

The layout of the sewer forcemain is not being completed by the Departmental Representative. A drawing referencing the forcemain is attached to this amendment.

Question 03:

Access to the work area is limited and will have to be from 1st Ave. West, requiring the removal of 1 or 2 trees that are on the city right of way. They currently have Christmas lights strung all through them. Also 2 additional trees will likely be required to be removed to install the tie-backs.

Response 03:

Removal of trees along the street is not approved by the City. The two trees adjacent to the dockwall near Structure 1 may be removed as required for installation of the tie rod anchorage system.

Question 04:

Drawing MA-01, Structure 1: Who is responsible for removing the existing trees that are in line with the proposed tie-rods and anchor blocks?

Response 04:

The contractor is responsible for removal of trees adjacent to the dockwall to accommodate the tie rod anchorage system.

Question 05:

What are the requirements (specifications) for having these trees replaced?

Response 05:

Existing trees that are cut down shall be replaced on a two-for-one basis, with 50 mm diameter caliper trees of the same species and guaranteed for successful catch for one year.

Question 06:

- A. The specifications and drawings note that all excavated material is assumed to be petroleum contaminated. The site due to the area that we are confined to, doesn't allow for stockpiling any native material for backfilling. The bulk of the material will have to be trucked offsite, stockpiled and brought back for use as native backfill.
- B. There is mention of contaminated material on the site. Will a disposal site be recommended or will all the contaminated material be able to stay on site?

Response 06:

It is not assumed that all excavated material is contaminated. Only Borehole BH 12-1 located behind the south end of Structure 1A identified possible hydrocarbon contamination from depth 1.52 metres to 6.10 metres below grade.

Any excavated material found to be contaminated must be disposed of offsite at an approved disposal facility licensed to receive the contaminated material. Contractor shall exercise care with handling, stockpiling, loading and transporting of contaminated material.

Any non-contaminated excavated material to be reused as backfill may be temporarily stockpiled at the site if area is available and/or stockpiled off site at the available Structure 6 staging area.

Question 07:

Can we get an estimated quantity and unit price included in the Unit Price Table to properly dispose of petroleum contaminated excess soil?

Response 07:

No. The contractor shall make his own assessment of the estimated quantity of contaminated material and associated costs for disposal.

Question 08:

- A. Is there a staging area to provide for material storage and land or marine site access?
- B. Does the owner have a spot in the inner harbour to handle such material away from any possible run off that could enter the harbour? i.e. storm drains, swales, ditches etc.

Response 08:

Transport Canada has an area available adjacent to Structure 6 on the west side of the harbour which the contractor may use for storage, staging and site access, as required. There is no ramp at this location. The shore protection at Structure 6 is gabion stone wall of unknown capacity. This area at Structure 6 may be used for access to marine equipment. An access plan must be submitted by the contractor to the Departmental Representative in advance of the work on site and must include plan and layout, method of accessing floating plant, site security, environmental controls and site restoration following project completion.

Question 09:

A note in specification references that no holes are to be drilled in SSP. Is there a repair specification if the contractor needs holes to handle the sheets?

Response 09:

Temporary holes may be cut in the top of piles for lifting only. Any holes must be structurally repaired after pile installation in accordance with Section 31 62 16.13, Clause 3.3 of the specifications.

Question 10:

The existing cope wall at the south limit of wall 1A is damaged. How is this to be repaired?

Response 10:

The top of the existing concrete copewall at Structure 1A shall be removed in the damaged area and re-cast with a new reinforced concrete top similar to Detail 4 shown on Dwg. No. MA-04. Payment will be included in the applicable pay items in the unit price table.

Question 11:

- A. The existing concrete sidewalk in Area 1A must be removed in order to install the tie back anchors. How is the sidewalk to be reinstated?
- B. Drawing MA-03, Section B - What is the backfill requirement under the proposed sidewalk? If full depth granular, will the quantity be covered by the unit rate for granular A?

Response 11:

The existing sidewalk at Structure 1A is to be replaced with new concrete sidewalk as shown in Dwg. No. MA-04 and measured for payment under Item 14 of the unit price table. The new sidewalk will be cast in panels with surface finish to match the existing sidewalk. Excavated areas under the sidewalk to be backfilled with compacted Granular A as required. Payment of Granular A material is included in Item 5 of the unit price table.

Question 12:

Is there a drawing with recent soundings for the Harbour?

Response 12:

The most recent bathymetric survey of the southern portion of the harbour conducted in August 2012 is attached to the amendment.

Question 13:

Site restoration is described in Section 31 62 16.13 Item 1.7.8, for tie rod installation. What is the requirement for restoration?

Response 13:

Area surface restoration is 100 mm of topsoil with number 1 nursery sod including site maintenance for a successful catch (30 days).

Question 14:

Reference Drawing MA-09, Detail 4 - What pipe material is to be used for the storm sewer extension?

Response 14:

The sewer outfall extension at Structure 1 is reinforced cast-in-place concrete. The reinforcing for the copewall extends through the section above the storm sewer outfall. Surface reinforcing on all faces of the headwall is 15M bars at 300 mm spacing each way.

Question 15:

The ladders, posts and chains on the Harbour Front wall are painted black now. Are you wanting the new ladders, posts and chains to be yellow as indicated in 2.1.5 Materials?

Response 15:

Ladders are to be painted yellow. Chains, bollards and decorative posts are to be painted black.

Question 16:

We are having difficulty finding matching posts. Are posts made by Toronto Fabricating & Mfg. Co., 1021 Rangeview Rd., Mississauga, ON L5E 1H2 acceptable?

Response 16:

The Departmental Representative will review submissions and shop drawings submitted by the contractor. The posts must be similar in size, dimension and style to the existing posts but need not be identical. The named supplier may have similar posts.

Question 17:

Drawing MA-04, Detail 4 and 6 - Can you please clarify the copewall details with regards to placement of the concrete inside the SSP pans. Is there concrete on the water side of the SSP wall or just on the land side? A horizontal section of the copewall would be beneficial.

Response 17:

The sheet piling only has concrete poured behind it and into the inpanels of the piles. There is no concrete on the water side of the piling. At the top of the installed piles, the outer face of the copewall on top of the pile cap extends into the harbour beyond the face of the piling, as shown on the drawings.

Question 18:

Does the item for Cast-In-Place Sidewalk include the Granular 'A' under the sidewalk or will it be paid under item # 5 Granular 'A' backfill?

Response 18:

The pay item for Cast-In-Place Concrete - Sidewalk in the unit price table represents only the concrete poured in place in the new sidewalk. The Granular 'A' backfill under the sidewalk will be measured for payment under Item # 5 - Granular 'A'.

SECTION 4 DRAWINGS

- .1 The following reference drawings for the existing sewers and forcemain are attached:
 - Drawing 6860-Z102: Tenth St West Reconstruction Sta. 24+00 to Sta. 14+00 June 1971
 - Drawing 6860-Z103: Tenth St West Reconstruction Sta. 14+00 to Sta. 7+00 June 1971
 - Drawing No 11: West Side Intercepting Sewer – 1st Ave. West, January 1962
 - Drawing No 12: West Side Intercepting Sewer - Syphon, Sewers, and Forcemain, January 1962

- .2 The following reference bathymetric drawing for harbour bottom soundings is attached:
 - Drawing : 2012 Bathymetric Survey, Riggs Engineering, Three files attached.

END OF AMENDMENT NO. 2