MUNICIPALITY OF WEST GREY

REQUEST FOR TENDER

FOR

REHABILITATION OF STRUCTURE 17

CONTRACT NO.: 5302-20     AUGUST, 2020

TRITON ENGINEERING SERVICES LIMITED
Consulting Engineers
The Old Post - 39 Elora Street South
P.O. Box 159
HARRISTON, Ontario   N0G 1Z0

PROJECT No. B5302A

Laura Johnston
Chief Administrative Officer/Deputy Clerk
Municipality of West Grey
402813 Grey Road 4, R.R. #2
DURHAM, Ontario   N0G 1R0
LOCATION AND SCOPE OF WORK

The work comprises of the Rehabilitation of Structure 17, along Concession 4 NDR between 30th Sideroad NDR and Mulock Road in the Former Township of Bentinck, Municipality of West-Grey as follows:

Replacement of a New 5588mm x 31115mm Timber Deck and Wearing Surface for motor vehicle use, Repair of Existing Substructure and all other work necessary for a complete job in accordance with the details set out more specifically hereafter and as shown on the accompanying Contract Plans.

DEFINITION OF OWNER AND CONTRACT ADMINISTRATOR

Wherever the word "Owner", "Corporation" or Authority appears in this Contract, it may be interpreted as meaning the "Municipality of West Grey".

Wherever the word "Contract Administrator" or "Engineer" appears in this Contract, it shall be interpreted as meaning the "Consulting Engineers, Triton Engineering Services Limited" or such other officers as may be authorized by the Corporation to act in any particular capacity.
FORM OF TENDER

FOR

MUNICIPALITY OF WEST GREY

REHABILITATION OF STRUCTURE 17

CONTRACT NO.: 5302-20

This Tender is Submitted by

Firm Name

Address

Telephone No. Date
**SCHEDULE OF UNIT PRICES**

**CONTRACT NO.: 5302-20**


<table>
<thead>
<tr>
<th>ITEM NO.</th>
<th>SPEC NO.</th>
<th>DESCRIPTION</th>
<th>EST. QTY.</th>
<th>UNIT</th>
<th>UNIT PRICE</th>
<th>TOTAL PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.01</td>
<td>S.P.</td>
<td>Mobilization and Demobilization</td>
<td>100%</td>
<td>L.S.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.02</td>
<td>S.P.</td>
<td>Remove and Dispose of Existing Timber Decking</td>
<td>100%</td>
<td>L.S.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.03</td>
<td>S.P.</td>
<td>Clean and Coat the Top Flange of the Floor Beams and Stringers (Provisional)</td>
<td>100%</td>
<td>L.S.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.04</td>
<td>S.P.</td>
<td>Access to Work Areas, Platforms and Scaffolding</td>
<td>100%</td>
<td>L.S.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.05</td>
<td>907 S.P.</td>
<td>Supply and Install New Nail Laminated Timber Deck (NLT)</td>
<td>100%</td>
<td>L.S.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.06</td>
<td>907 S.P.</td>
<td>Supply and Install New Timber Hearing Boards</td>
<td>100%</td>
<td>L.S.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**SUB-TOTAL – STRUCTURE 17**

$________

**CONTINGENCY ALLOWANCE**

$ 20,000.00

**TOTAL PRICE (Excluding H.S.T.)**

$________
SCHEDULE OF PROVISIONS, PLANS, STANDARD DRAWINGS, SPECIFICATIONS AND
GENERAL CONDITIONS

The work specified in this Contract will be performed in strict accordance with the following

Only the Municipal and Provincial common standards in OPS Volume 1 and 4 and the Municipal-
oriented specifications in OPS Volume 7 and 8 apply to the Contract, unless specified otherwise in
the Contract Drawings

Special Provisions

Special Provisions – Items

Plan

Drawing No. 01 - Plan and Details

General Conditions

Ontario Provincial Standard Specifications and Municipal-Oriented General Conditions of Contract,
November 2019 (OPSS.MUNI 100)

It will be the Contractor’s responsibility to obtain current copies of the General Conditions of
Contract, which form part of this Contract.
By my/our signature(s), hereunder, I/we hereby agree to complete this Contract in accordance with the terms contained herein.

DATED AT __________________________ this ______ day of ___________________________ 20____

Witness

Signature of Authorized Person
Signing for Contractor

H.S.T. Registration Number

Position

TENDER SUBMISSION

Sealed Tender, clearly marked Tender for Contract No. 5302-20, to be submitted to the Attention: Mr. Vance Czerwinski, Director of Infrastructure and Public Works.

Municipality of West Grey
Municipal Office
402813 Grey Road 4
R.R. #2
DURHAM, Ontario
N0G 1R0

By 2:00 p.m. (local time), Friday, September 11, 2020.

PROGRESS AND TIME FOR COMPLETION

All works are to be completed by December 18, 2020
SPECIAL PROVISION – ITEMS

MOBILIZATION/DEMOBILIZATION --- ITM NO. 1.01

a) Measurement for Payment

Measurement for payment shall be by the lump sum. No measurement of quantities will be made for this item.

b) Payment

Payment at the unit bid price shall be for the compensation of the costs associated with the transportation of labour, equipment, offices, conveniences, temporary facilities, construction plant and other items not required to form part of the permanent works and not covered by the other items.

Payment shall be made as follows:

50% payment shall be made under the first monthly progress payment certificate and the remaining 50% shall be made under the final monthly progress payment certificate.

REMOVE AND DISPOSE OF EXISTING TIMBER DECKING – ITEM NO. 1.02

a) Scope

Work under this Item shall conform with OPSS.MUNI 180, except as amended or extended herein.

Part of the Work in this Item shall include, but not be limited to, the following:

- Removal and disposal of the chip and tar coating on parts of the timber deck; and
- Removal and disposal of all timber and metal components in the deck include the nail laminated timber deck, curbs, flange/deck anchors and all fasteners.

NOTE: SVCA is aware of these works and is general agreement with the deck replacement methods. A permit will be obtained by the Municipality of West Grey. Deck removal works cannot commence until SVCA approval has been attained.

b) Construction

Removal shall take place in such a manner to not damage any components to be retained.

If excavators, backhoes or their devices are to be used to remove the deck timbers, the operating weight of said machines must not exceed the posted load limits.

Even if the machine weight does not exceed the posted load limits, the Contractor must still satisfy themselves of the ability of the existing timber deck to support wheel loads.

Prior to commencing removal, the Contractor shall install nets or tarps or other devices to collect debris of all nature that may fall from the deck during removal. This is paid under this Item unless there is a separate Item for payment. This method of operation must avoid any in-water activity.

All bidders shall visit the site and review the timber and complete any testing (drilling/sampling) to confirm if there are any preservative treatments which may affect the
cost of removing, hauling or disposal of the existing deck timbers. All disposal costs shall be borne by the successful Bidder.

When the timber decking has been fully removed, the Contractor shall arrange with the Contract Administrator an inspection to review if the provisional item (1.02) is required. No work can commence on the decking or hearing boards can commence until this review has been completed.

c) **Measurement for Payment**

There will be no measurement for payment for this lump sum (LS) tender Item.

d) **Basis of Payment**

Payment at the Contract price bid for this Item shall include all Labour, Materials and Equipment to complete the Work.

**CLEAN AND COAT THE TOP FLANGE OF THE FLOOR BEAMS AND STRINGERS (PROVISIONAL) - ITEM NO. 1.03**

a) **Scope**

Work under this Provisional Item shall conform with OPSS.MUNI 911, except as amended or extended in the following.

Part of the Work for this Item shall include, but not be limited to, the following:

- Use hand tools to clean the top flange of the stringers and floor beams;
- Apply two (2) brush applied coats of the coating material identified herein; and
- Undertake all environmental protection measures to ensure that the dust, corrosion product or coating does not enter the River.

b) **Construction**

The cleaning shall remove all loose corrosion product. Tightly adhering rust that cannot be removed with reasonable effort using a paint scrapper may remain.

The coating shall be applied to the top surface of all floor beams and stringers.

Two (2) brush applied coats shall be provided following the coating manufacturer’s recommendations. The total build thickness for the coating shall meet the manufacturer’s recommendation (4.0 – 8.0 mils).

The coating product shall be BAR-Rust 235 (Devoe High Performance Coating 5) by AkzoNobel.

The Contractor shall provide all environmental protection and all access required to complete the Work under this tender Item in accordance with OPSS.MUNI 911.

c) **Measurement for Payment**

There will be no measurement for this lump sum (LS) Item.
d) **Basis of Payment**

Payment at the Contract price bid for this Item shall include all Labour, Materials and Equipment to complete the Work. This Item is Provisional and may be deleted in whole by the Owner with no claim for loss of overhead or profit.

**ACCESS TO WORK AREAS, PLATFORMS AND SCAFFOLDING - ITEM NO. 1.04**

a) **Scope**

Work under this Item shall conform with the requirements of OPSS.MUNI 928.04.03, except as amended or extended herein.

Part of the Work in this Item shall include, but not be limited to, the following:

- Ensuring by Engineered calculations that the proposed access, as may be suspended or attached to the existing bridge, does not extend the capacity of the bridge during construction; and
- Design and submit working drawings for all access to work areas, platforms and scaffolding.
- The general contractor must provide, install and maintain appropriate signage and/or barrier of passage (buoys) to recreational use of the watercourse during construction.

**Construction**

No access may be placed in whole or in part within the water of the River without the Saugeen Valley Conservation Authority’s approval.

All access to work areas must be removed prior to re-opening the bridge to traffic.

The access may not be within 2000 mm of the normal water surface (elevation) to permit the passage of recreational water traffic.

b) **Measurement for Payment**

There will be no measurement for this lump sum (LS) Item.

c) **Basis of Payment**

Payment at the Contract price bid for this Item shall include all Labour, Materials and Equipment to complete the Work.

**WOOD IN NAIL LAMINATED DECK – ITEM NO. 1.05**

**WOOD IN HEARING BOARDS – ITEM NO. 1.06**

a) **Scope**

OPSS 907 shall apply to these Items except as amended or extended in this Special Provision.

Clause 907.01 of OPSS 907 is amended by the addition of the following:
This specification also covers the construction requirements for supply and installation of all timber including the Nail Laminated Timber Deck.

b) Definitions

Clause 907.03 of OPSS 907 is amended by the addition of the following:

**Manufacturer:** means the manufacturer and treater of the timber laminations.

**NLT Deck:** Nail Laminated Timber Deck are site fabricated by stacking timber lamination edge to edge and fastening them together with nails.

**Clip Plates:** Shop fabricated steel plates installed on site to fasten the girder to the NLT Deck.

c) 907.05 Materials

**907.05.03.05 Nails and Spikes**

Clause 907.05.03.05 of OPSS 907 is amended by the addition of the following:

Nails between lamination in the NLT decks shall be 4 inch (20d) common nails galvanized to ASTM A123 or approved equivalent.

**907.05.08 Clip Plates**

Clip Plates shall be fabricated of steel confirming to the requirements of CSA G40.20/G40/21, Grade 300W.

d) Construction

**907.07.04.02 Nailing for Laminated Decks**

Clause 907.07.04.02 of OPSS 907 is amended by the addition of the following:

Individual timber laminations shall be treated prior to nailing. The NLT laminations shall be incised and pressure treated, using Chromated Copper Arsenate (CCA) conforming to CSA 080 and AWPA Standards M1, M2, and M4.

Horizontal nailing between laminations shall be completed with common nails used to fasten each lamination to the preceding one at intervals as shown on the drawings. The nails shall be of sufficient length to pass through two (2) laminates and at least halfway through the third. The nails shall be driven alternately near the top and bottom edges. At least one nail shall be placed within 100 mm of the end of each lamination.

**907.07.06.02 Laminated Wood Deck**

To Clause 907.07.06.02 of OPSS 907 is amended by the addition of the following:

The Contractor shall install the deck-to-girder Clip Plates as detailed in the Contract Drawings.

Following the installation of the NLT deck, the Contractor shall install the wearing timbers as detailed in the Contract Drawings.
DRAWING