

**TOWNSHIP OF SOUTH GLENGARRY**  
**GLEN WALTER ELEVATED WATER STORAGE TANK**  
**CONTRACT NO. 122083**

**ADDENDUM NO. 2**

The Contractor's attention is drawn to the following questions and responses (in red) which amend the Contract Documents. See attached revised pages 3-1 and 4-1 to 4.4 of the Form of Tender.

1. Drawing SP1 – is there a specification for the Construction Fence?

*Add the following note to Drawing SP1:*

*Construction fence is to be 1.8 m high, free-standing, interlocking system, using welded metal panels. Contractor is to add gates as necessary. Construction fencing is to be maintained for the duration of the contract. Tender price for temporary construction security fence is to be entered in the Form of Tender under "Addendum 2 – Temporary Construction Fence (see revised page 4-4 attached).*

2. Section 13105.1.4.1 states PLC panel & programming to be provided by Owner's System Integrator. However, it does not name whom that is. Who is the Owner's current System Integrator?

*Add the following to Section 13105:*

*The Township is currently using Excelpro for system integration.*

3. The Bid Form requires Item #1 to be broken down to provide Totals for the various Divisions. However, we are not required to provide the breakdown of the Divisions until 48 hours post bid, as such the Division Totals will not be final until then. In order to provide the most accurate pricing breakdown we request a **single Lump Sum Price** be entered in this location with the breakdown of this Lump Sum price being 48 hours post bid. Will this be acceptable?

*Add the following note #6 to page 3-1 of the Form of Tender:*

6. *At time of tendering, the Bidder is to enter the Total Lump Sum Tender Price (Item 1+2+3) at the bottom of the Table. The totals for each Division and the totals for each Section of each Division are to be provided 48 hours after close of Tender.*

4. Form of Tender – Provisional Items. Although these Units will be deleted if unused, they add unnecessary costs to the Bid Total. We suggest these items be removed as they are not applicable to the project scope of works.

*Amend the following Provisional items in the Table on page 4-1 of the Form of Tender:*

*Delete Excavation (iii) Up to 6.0 m deep, 100m<sup>3</sup>*

*Revise the quantity of Rock excavation from 50 m<sup>3</sup> to 5 m<sup>3</sup>*

*Revise the quantity of Asphalt Item (i) HL8 from 50 tonnes to 5 tonnes*

*Revise the quantity of Asphalt item (ii) HL3 from 50 tonnes to 5 tonnes*

5. Form of Tender – Provisional Items. Although these Units will be deleted if unused, they add unnecessary costs to the Bid Total. We suggest the quantity of this item be greatly reduced to 10m<sup>2</sup> since the Base Bid has about 1,200 m<sup>2</sup> of sodding making an additional 1,000 m<sup>2</sup> of sodding doubtful.

*Amend the Provisional Sodding Item quantity from 1000m<sup>3</sup> to 10 m<sup>3</sup>*

6. Form of Tender – Provisions Items – Watermain Insulation \$/m – we will need a detail showing both the vertical and horizontal dimensions of the insulation in order to adequately price. Alternatively, this item can be revised to \$/m<sup>2</sup>. Can a detail be provided, or the item description be revised?

*Amend the Provisional Watermain insulation item to read 50 m<sup>2</sup>. OPSD 1109.03 will be used for installation purposes.*

7. Form of Tender – Provisions Items – Removal of Unsuitable Fill, 200 m<sup>3</sup>. Can you confirm for the purpose of the Bid we can assume this unsuitable fill material is simply surplus material meeting Table 2.1 criteria (non hazardous)?

*Although the designation of “non hazardous” cannot be confirmed, the Township will accept all excess excavated native soils from the site. The Township’s municipal site is within 10 km from the Tank site.*

8. Section 02911 – there has been no testing on the existing topsoil. Can you confirm for the purpose of the bid that we can assume the existing topsoil will be suitable for reuse without the need for any topsoil amendment?

*Add the following to Section 02911 Item 3.1:*

*.6 Existing topsoil will be suitable for reuse. However, additional approved topsoil may be required if there is insufficient existing topsoil on site.*

9. Section 02940 – we do not see a Plant List on any of the site plans. Can you confirm Section 02940 Planting is not applicable to this contract?

*There are no plantings on this Contract. Delete Section 02940.*

10. Drawing SP1 Note 4 – can you confirm the limits of existing gravel restoration is limited to the area within the proposed construction fence only?

*Amend Note 3 on Drawings SP1 to read as follows:*

*3. Existing gravel surfaces are to be reinstated with 100 mm of Granular A and graded to existing grades. If the surfaces of the roadway and the existing parking lot are disturbed as a result of construction traffic and/or watermain installation, those areas are to be reinstated.*

11. Section 11700, Item 2.3.3.1 specifies a minimum wall thickness of 300 mm for the Concrete Support Structure. The minimum 300 mm will most likely exceed our design requirements. Typically, the pedestal thickness is determined by the tank manufacturer. Can the

specification be revised to have the pedestal wall thickness determined by the tank manufacturer?

Revise the first sentence in Section 11700 Item 2.3.3.1 to read as follows:

“The concrete support structure shall have a wall thickness which is to be determined by the Manufacturer. Design calculations are to be submitted for review.”

12. Section 11700, Item 2.3.3.4 specifies a hand rub of the bottom 4.0 m of the exterior support pedestal. Our architectural concreting procedures produce a finish where a hand rub is not required. Can the requirement for the hand rub finish be removed from the specification?

Delete Clause 2.3.3.5 of Section 11700.

13. Drawing P9 Overflow Weir Detail shows a requirement for 600 mm of freeboard below the painter's rail. Is this 600 mm of freeboard below the painters' rail only applicable at the weir cone location or is 600 mm of freeboard also required at the tank outer perimeter painters' rail?

Add the following Note to Drawing P9 – Typical Overflow Weir Detail:

“The tank shall be designed so that no structural roof components are in contact with water. Minimum freeboard of 600 mm is to be provided for all structural components”

14. Drawing P9 – HMS Section shows a 1219 mm target drawdown below the operating HWL. We are unsure of what the target volume is within this drawdown elevation range. Can you confirm we are to design our tank to suit the various storage volumes and their respective elevation ranges shown on Sheet P2?

Delete the target drawdown as shown on Drawing P9. Add the following note to the Suggested Hydrodynamic Mixing System detail:

“The Hydrodynamic Mixing System is to be designed to suit the storage volumes as provided on Drawing P2.”

15. Section 11700 and the Contract Drawing show the overflow level as 0.23m above the HWL, However, page 26 of Section 11700, Item 2.3.25.2 describes the overflow as being set at 100 mm above the HWL. Can you confirm Item 2.3.25.2 should also describe the overflow as 230 mm above the HWL?

Revise Section 11700 Item 2.3.25.2 to read 230 mm above HWL.

16. Section 11700, Item 2.3.25.6 describes water cresting as 150 mm above the overflow, but in no case over 300 mm over the HWL. If the overflow is set at 230 mm above the overflow the crest would be 380 mm above the HWL. Can you confirm this is acceptable?

Revise Section 11700 Item 2.3.25.6 to read “...380 mm above the TWL...”

17. Section 11700, Item 2.3.27 (page 27) the Inlet and Outlet Risers are specified as A312. Industry Standard is A778. Typically, A312 is reserved for applications such as pulp and paper mills, refineries, etc. where high temperatures and pressures are present. Using

A312 will add additional costs with no additional benefit. Will A778 be acceptable for the inlet and outlet risers?

A778 is acceptable. Revise Section 11700 Item 2.3.27 to read A778.

18. Drawing P6 describes stainless steel pipe support brackets. Typically, our standard detail would be to provide galvanized steel pipe support brackets. Stainless Steel only adds costs with no real benefit. Will galvanized steel components be acceptable for the pedestal interior pipe support brackets?

The detail on Drawing P7 for Support Brackets is to remain unchanged.

19. Drawing P5 shows the incoming waterline coming in through the foundation as Stainless Steel. However, Section 11700, Item 2.3.26 .1 describes all piping installed under the foundation shall be concrete pressure pipe. Can you confirm the piping installed under the foundation can be either Stainless Steel or Concrete Pressure Pipe?

Revise Section 11700 Clause 2.3.26.1 as follows:

“All piping installed under the foundation shall be stainless Steel pipe with restrained joints and shall be concrete encased.”

Will ductile iron piping also be considered as an option for the piping section being installed under the foundation?

Ductile Iron pipe will be considered following close of tender.

20. Drawing P9 – Steel Transition Section shows the inlet as SCH 10, 304 L Stainless Steel and shows the outlet as Schedule 40, Type 3604L. Neither of these align with Section 11700, which specifies Type 316L 10S Stainless Steel. Can you confirm we follow Section 11700 for the piping material?

Revise the outlet pipe and Section 11700 to Schedule 10, 316 L Stainless Steel pipe.

21. Drawing P 9 – Steel Transition Section – can confirm the limits of fusion bonded epoxy coating is only required on the portion of the steel pipe that penetrates the structural support slab?

Confirmed. Revise Drawing P9, Typical Steel Transition Section Inlet/Outlet Riser Pipe detail. Portion of steel pipes (inlet and outlet) are to be coated inside and out with fusion bonded epoxy. Related thrust collars are to be coated with fusion bonded epoxy.

22. Section 11700, item 2.3.18.2 (page 23 of 34) describes ladder in the concrete shaft as galvanized steel. However, Drawings A4 and A5 shows the ladders as FRP. Can you confirm the ladder material for these ladders as FRP?

- Ladder from grade to interior roof level.
- Ladder from grade to FRP platform.

All ladders are to be FRP. Revise Section 11700 item 2.3.18.2 to read FRP.

23. Drawing A5 shows the ladder from the interior roof level to the upper platform as FRP, however Drawing A6 shows that ladder as galvanized steel. Can you confirm the ladder from the interior roof level to the upper platform is galvanized steel?

Revise Drawing A6 to read FRP ladder.

24. Section 11700, item 2.3.18.4 (page 23 of 34) describes the intermediate landings as galvanized steel, however Drawing A8 shows FRP guard rail. Can you confirm ALL the components of the intermediate landings are galvanized steel?

All components of the intermediate landings are to be FRP. Revise Section 11700 item 2.3.18.4 to read FRP.

25. Section 11700, item 2.3.22.1 (page 25 of 34) describes the upper platform as galvanized steel, however Drawing A8 shows FRP guard rail (typ.) and Drawing A6 shows an FRP hinged hatch. Can you confirm ALL the components of the upper platform are galvanized steel?

All components of the intermediate landings are to be FRP. Revise Section 11700 item 2.3.22.1 to read FRP.

26. Section 11700, item 2.3.18.4 (page 23 of 34) describes the intermediate landings as being spaced a maximum of 9 m apart. This would result in 3 intermediate platforms. Drawing A8 shows 2 intermediate platforms at specific elevations. Can you confirm the number of intermediate platforms as 3 to meet the maximum 9m spacing requirement?

Revise Drawing A8 to provide a maximum of 9 m between intermediate landings. Delete all reference to "rest seat".

27. Drawing A8 shows the depth to the **top** of the raft foundation as exceeding the frost depth. The geotechnical report describes the frost depth as 1.7m and describes the foundation as bearing at that depth or lower. Can you confirm the bottom of foundation, not the top of foundation, is to be a minimum of 1.7 m below grade?

Confirmed. Revise Drawing A8 to show minimum buried depth to underside of foundation as 1.7 m below grade.

28. Section 11700, Item 2.2.7 lists **custom** load combinations. The load combinations are overly conservative that do not result in a safer structure. Following the load combinations in Item 2.2.7 will add significant costs with no benefit. Can you confirm we are to design to the load combinations listed in Item 2.2.8.?

Add the following to Item 2.2.7 of Section 11700:

The tank design engineer shall check all the load combinations and choose the governing case to satisfy the requirements of the Ontario Building Code (OBC) and the Occupational Health and Safety Act (OHSA). The tank design engineer shall make reasonable adjustments based on the calculated results to best suit the project.

29. Section 11700, Item 2.2 – can you confirm there is no Item 2.2.5?

Confirmed.

30. Section 13111, Item 2.1 – Will Corrosion Service be considered an approved equivalent?

We note that Corrosion Service is named in Item 2.1.

31. Section 11268 – Hydrodynamic Mixing System please confirm the system shall be manufactured using stainless steel pipe and fittings per Part 9 of this Section.

Confirmed. See Part 9 – Stainless Steel Pipe and Fittings, Item .3

32. Section 11268 – Part 9 specifies the HMS pipe material as Type 304 – the piping within the pedestal is Type 316 – please confirm all pipe material as Type 316?

Confirmed. All Stainless teel pipe I to be Type 316 L Schedule 10.

33. Section 11100, Item 2.20 - Stainless Steel Ball Valves, please confirm that they are to be NSF61 certified.

Confirmed. Revise Section 11100 Item 2.20 to add NSF61 certification is required.

34. Section 11700, Item 2.3.22 describes a full span upper platform, 2.4 m in width, Drawing A6 shows a “half-span” upper platform. Can you clarify the requirement for a full span upper platform?

Agreed. Revise Section 11700 Item 2.3.22 to provide a half-span upper platform as shown on Drawing A6.

35. With the upper platform being full span, is a 2.4 m wide platform necessary? With this small of a diameter pedestal an over width upper landing will interfere with the piping the extends to the center access tube location. Will a standard 1.2m wide, full span upper platform be acceptable?

Provide a half span, 2.4 m wide upper platform as shown on Drawing A6.

The Tenderer shall sign this Addendum in the space provided below, shall affix his seal hereto and submit this Addendum in the same envelope as his Tender. Except as and to the extent that they are amended by the foregoing, all terms and conditions of the Tender Documents remain in full force and effect.

Signature of Tenderer

SEAL OF TENDERER

Ainley & Associates Limited

Township of South Glengarry

**TO BE COMPLETED AND SUBMITTED WITH THE TENDER**

1. All items shall be in accordance with the Specifications and/or Drawings.
2. The Tenderer shall tender a total tender price for the works.
3. Provisional Items No. 2 is not to be spent unless approved by the Consultant and the Municipality.
4. All Items in the Summary of Tender Prices must be completed with a dollar value and submitted at the time of tender closing. Failure to comply will result in an incomplete bid.
5. The Contractor shall complete the divisional pricing table below in its entirety. Where no value is inserted on any given line, the Contractor shall be deemed to have included the amount for the applicable division in the total lump sum price. Failure to complete the table in its entirety may result in the disqualification of your submission by the Municipality
6. At time of tendering, the Bidder is to enter the Total Lump Sum Tender Price (Item 1+2+3) at the bottom of the Table. The totals for each Division and the totals for each Section of each Division are to be provided 48 hours after close of Tender.

**PRICING SUMMARY TABLE:**

<b>BID FORM</b>		
<b>ITEM NO.</b>	<b>DESCRIPTION</b>	<b>TOTAL PRICE</b>
<b>1</b>	<b>DIVISIONS 1 - 16</b>	
	Division 1 - General Requirements	\$
	Division 2 - Site Works	\$
	Division 3 - Concrete	\$
	Division 4 - Masonry	\$
	Division 5- Metals	\$
	Division 6- Wood and Plastics	\$
	Division 7- Thermal and Moisture Protection	\$
	Division 8- Doors and Windows	\$
	Division 9 - Finishes	\$
	Division 10 - Specialties	\$
	Division 11 - Equipment	\$
	Division 13 – Control and Instrumentation System	\$
	Division 15- Mechanical	\$
	Division 16 – Electrical	\$
<b>2.</b>	Provisional Items	\$
<b>3.</b>	Contingency Allowance	\$ 500,000
<b>TOTAL LUMP SUM TENDER PRICE (ITEM 1+2+3) excluding H.S.T.</b>		\$

The above stated Price includes fully for all increases, for whatever cause, in cost or price of labour, materials, products, equipment or consumables. Escalation shall not apply for the duration of the Contract. Tenderers acknowledge that the above Pricing Summary Table is for the purpose of Tender validity evaluation and that any discrepancies between the Pricing Summary Table and Lump Sum Tender Price shall not affect the Lump Sum Tender Price. The Municipality reserves the right to adjust the Pricing Summary Table to match the Lump Sum

Tender Price or to eliminate any unbalanced prices. No allowances or extra consideration on behalf of the Contractor will be allowed by the Owner by reason of additional costs, damages or other difficulties incurred by the Contractor for failure to have fully investigated and determined conditions affecting the Work.

**(FOR ITEMS INCLUDED IN ITEM NO. 2 OF THE SUMMARY OF LUMP SUM TENDER PRICE)**

All line items in the Summary of Tender Prices must be completed with a dollar value and submitted at the time of tender closing. Failure to comply will result in an incomplete bid.

Item No. and Description	Unit Price	Total
Excavation in all kinds of materials including shoring removal and disposal of all surplus water and incidentals as specified		
(i) Up to 2.0m deep, 100m <sup>3</sup>		
(ii) Up to 4.0m deep, 100m <sup>3</sup>		
Supply and compact to 100% SPMDD in Any excavation or as fill		
(i) Granular A, 100m <sup>3</sup>		
(ii) Granular B, 100m <sup>3</sup>		
Rock excavation, 5m <sup>3</sup>		
Sodding, 10m <sup>2</sup>		
Watermain insulation, 50m		
Hot-Mix Asphalt including supply, place and compacting		
(i) HL8, 5 tonnes		
(ii) HL3, 5 tonnes		
Concrete in place as specified including formwork and finishing but excluding reinforcing steel		
30 mPa Concrete, 5m <sup>3</sup>		
1.5 mPa unshrinkable fill, 5m <sup>3</sup>		
Supply and placement of reinforcing steel, 5T		
Removal and disposal of unsuitable fill material from the Work site, 200m <sup>3</sup>		
Equipment as specified complete with excavation, backfilling, reinstatement, concrete, site and process piping, valves, fittings, instrumentation and controls and all other equipment and accessories as shown on the Contract Drawings and as specified to provide a complete system.		



Item No. and Description	Unit Price	Total
<b>Additional labour requirements (labour rates to include payroll, burden, overhead and profit)</b>		
Foreman, 10 hours		
Skilled Labourer, 10 hours		
Common Labourer, 10 hours		
Heavy Equipment Operator, 10 hours		
Carpenter, 10 hours		
Electrical Foreman, 10 hours		
Electrical Journeyman, 10 hours		
Plumber, 10 hours		
Pipe Fitter, 10 hours		
Painter, 10 hours		
Site Security Personnel, 10 hours		

**SUB TOTAL NO. 2**

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The Contractor agrees that they are not entitled to payment of Provisional Items except for additional work carried out by them in accordance with the Contract as directed by the Owner and/or Engineer and only to the extent of such additional work as directed by the Owner and/or Engineer.

## FORM OF TENDER

### BREAKDOWN OF TOTAL LUMP SUM TENDER PRICE

(FOR ITEMS INCLUDED IN ITEM NO. 1 OF THE SUMMARY OF LUMP SUM TENDER PRICE)

**THIS SCHEDULE SHALL BE COMPLETED AND SUBMITTED BY THE TWO LOWEST TENDERERS WITHIN 48 BUSINESS HOURS OF THE TENDER CLOSING**

1. If, in the opinion of the Engineer, the breakdown contains prices which are unbalanced, the Contractor will be required to submit data to substantiate his prices. In any event, the Engineer reserves the right to adjust the breakdown to correct any unbalanced prices.

<b>SCHEDULE OF ITEMS AND PRICES</b>		
<b>SECTION</b>	<b>DESCRIPTION</b>	<b>TOTAL PRICE</b>
<b>Division 1 – General Requirements</b>		
01000	50% Performance Bond and 50% Labour and Material Bond and Insurance	
01000	Mobilization and demobilization	
01000	General Requirements – all Permits	
01110	Summary of Work	
01200	Alternatives	
01310	Project Management and Coordination	
01320	Construction Progress and Documentation	
01330	Submittal Procedures	
01351	Health and Safety	
01353	Special Procedures - Traffic Control	
01420	References	
01450	Quality Control	
01510	Temporary Utilities	
01520	Construction Facilities	
01561	Environmental Protection	
01610	Basic Product Requirement	
01720	Preparation	
01740	Cleaning	
01750	Disinfection of Water Retaining Structures, and Process Piping	
01760	Warranty Work	
01770	Closeout Procedures	
01780	Closeout Submittals	
01810	Testing and Commissioning	
01820	Demonstration and Training	
<b>Total Tendered Price for Division 1 (Transfer to Page 3-1)</b>		<b>\$</b>
<b>Division 2 – Site Work</b>		

<b>SCHEDULE OF ITEMS AND PRICES</b>		
<b>SECTION</b>	<b>DESCRIPTION</b>	<b>TOTAL PRICE</b>
02140	Dewatering	
02150	Bracing and Shoring	
02231	Clearing and Grubbing	
02232	Tree Pruning	
02233	Preservation of Topsoil	
02300	Earthwork and Related Work	
02311	Site Grading	
02315	Excavating, Trenching and Backfilling	
02316	Rock Removal	
02317	Roadway Excavation, Embankment and Compaction	
02362	Dust Control	
02379	Preservation of Water Courses	
02511	Watermains	
02555	Telethermic – Cathodic Protection	
02610	Hydrostatic Testing Water Retaining Structures	
02701	Aggregates – General	
02721	Granular Base	
02723	Granular Sub-Base	
02725	Hot Mix Asphalt	
02821	Chain Link Fence and Gates	
Addendum 2	Temporary Construction Fence	
02911	Topsoil and Finish Grading	
02933	Sodding	
<b>Total Tendered Price for Division 2 (Transfer to Page 3-1)</b>		<b>\$</b>
<b>Division 3 – Concrete</b>		
03100	Concrete Formwork and Accessories	
03200	Concrete Reinforcement	
03300	Cast-in-Place Concrete	
03345	Concrete Curing and Finishing	
<b>Total Tendered Price for Division 3 (Transfer to Page 3-1)</b>		<b>\$</b>
<b>Division 4 – Masonry</b>		
04051	Masonry Procedures	
04060	Masonry and Masonry Grout	
04080	Masonry Reinforcement and Connectors	
04090	Masonry Accessories	
04220	Concrete Masonry Units	
<b>Total Tendered Price for Division 4 (Transfer to Page 3-1)</b>		<b>\$</b>