



601-2015 ADDENDUM 1

CONTRACT 2 – HIGH RATE CLARIFIER AND GRIT REMOVAL STRUCTURAL CONCRETE & MISCELLANEOUS WORKS – SOUTH END WATER POLLUTION CONTROL CENTRE (SEWPCC) UPGRADING/EXPANSION PROJECT

ISSUED: September 4, 2015
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URGENT

**PLEASE FORWARD THIS DOCUMENT TO
WHOEVER IS IN POSSESSION OF THE BID
OPPORTUNITY**

**THIS ADDENDUM SHALL BE INCORPORATED
INTO THE BID OPPORTUNITY AND SHALL
FORM A PART OF THE CONTRACT
DOCUMENTS**

Template Version: A20150806

Please note the following and attached changes, corrections, additions, deletions, information and/or instructions in connection with the Bid Opportunity, and be governed accordingly. Failure to acknowledge receipt of this Addendum in Paragraph 10 of Form A: Bid may render your Bid non-responsive.

PART A – BID SUBMISSION

Replace: 601-2015 Bid Submission with 1 Addendum 1- Bid Submission. The following is a summary of changes incorporated in the replacement Bid Submission:

- Form B(R1): Revised unit of payment - Item A.9
- Form B(R1): Revised unit of payment – Item B.6
- Form B(R1): Add Items No. C.6, No. D.4, and D.5.

Page numbering on some forms may be changed as a result.

PART E – SPECIFICATIONS

Revise: E1.3 to read: Add the following Appendices:

- Appendix E 601-2015 Sketch No 1 – Backfill Limits
- Appendix F As-Built Shoring Drawings
- Appendix G Bid Opportunity 333-2014 Drawings Provided For Information

Revise: NMS Division 01
Section 01 11 00

Clause 1.2.B.3 to read: **Backfill and rough grading for the High Rate Clarifier and Vortex Grit Removal areas. Backfill elevation for the High Rate Clarifier area shall be 232.7. Backfill elevation for the Vortex Grit Removal area shall be 233.4. Backfill elevation west of High Rate Clarifier shall be 229.3. Backfill shall have a 4:1 slope from backfill elevations to the elevation of the remaining excavation. See Appendix E 601-2015 Sketch No 1 – Backfill Limits and Appendix F As-Built Shoring Drawings.**

Revise: NMS Division 01

Section 01 11 00

Clause 1.2.B.20 to read: Removal of shoring to facilitate construction of HRC and Vortex Grit Removal structures. **Shoring in the HRC and Vortex Grit Removal areas shall be removed to the extent possible as backfill is completed.**

Add: NMS Division 01
Section 01 11 00
Clause 1.2.B.37

Contractor shall responsible for protecting their work areas, including the High Rate Clarifier and Grit Removal areas, from frost penetration and the potential impact to piles.

Add: E14 **Frost Protection Insulated Tarp Cover.**

E14.1 Refer to the following Drawings located in Appendix G for location of frost protection:

1-0102-SFDW-R001-R05- Bioreactor/Blower Building Overall Piling Plan

1-0102-SFDW-R002-R05- Bioreactor/Blower Building Overall Part Piling Plan (1)

1-0102-SFDW-R003-R05- Bioreactor/Blower Building Overall Part Piling Plan (2)

1-0102-SFDW-R004-R05- Bioreactor/Blower Building Overall Part Piling Plan (3)

1-0102-SFDW-S001-R02- Secondary Clarifier 4 Piling Plan

1-0102-SFDW-S002-R02- Secondary Clarifier 5 Piling Plan

1-0102-SFDW-S003-R04- Secondary Clarifiers Storage, Pump and Mechanical Room – Piling Plan

1-0102-SFDW-C001-R03 Chemical/Electrical Building Piling Plan

1-0102-CGAD-A003-001-R02 Overall Site Excavation and Stockpile Location Plan

E14.2 The work shall include the supply, installation, maintenance and removal of insulated poly tarpaulins and ballast to cover the piles and surrounding soils located within the BNR, Secondary Clarifier and Chemical/Generator building excavations with the objective to reduce frost penetration into the soil.

E14.3 Insulated Tarpaulins shall have UV resistant rip-stop woven polyethylene shell, minimum of R7.5 closed cell polyethylene or polypropylene foam insulation, and Grommets along all edges.

E14.4 Works associated with **Frost Protection Insulated Tarp Cover** will be paid from Cash Allowance identified in FORM B (R1): PRICES.

Add: E15 **Frost Protection Glycol Heating System.**

E15.1 Refer to the following Drawings located in Appendix G for location of frost protection:

1-0102-SFDW-R001-R05- Bioreactor/Blower Building Overall Piling Plan

1-0102-SFDW-R002-R05- Bioreactor/Blower Building Overall Part Piling Plan (1)

1-0102-SFDW-R003-R05- Bioreactor/Blower Building Overall Part Piling Plan (2)

1-0102-SFDW-R004-R05- Bioreactor/Blower Building Overall Part Piling Plan (3)

1-0102-SFDW-S001-R02- Secondary Clarifier 4 Piling Plan

1-0102-SFDW-S002-R02- Secondary Clarifier 5 Piling Plan

1-0102-SFDW-S003-R04- Secondary Clarifiers Storage, Pump and Mechanical Room – Piling Plan

1-0102-SFDW-C001-R03 Chemical/Electrical Building Piling Plan

1-0102-CGAD-A003-001-R02 Overall Site Excavation and Stockpile Location Plan

- E15.2 The work shall include the supply, installation, maintenance and removal of Frost Protection Glycol Heating System including but not limited to equipment, pipe loops, insulated poly tarpaulins, appurtenances and ballast to cover the piles and surrounding soils for the BNR, Secondary Clarifier and Chemical/Generator building excavations with the requirement to eliminate frost penetration into the soil, to prevent pile jacking.
- E15.3 Insulated Tarpaulins shall have UV resistant rip-stop woven polyethylene shell, minimum of R7.5 closed cell polyethylene or polypropylene foam insulation, and Grommets along all edges.
- E15.4 Contractor shall provide all design works, layout drawings and installation of materials and equipment and quality control for verifying soil temperature. Contractor shall warranty against frost penetration into the soil.
- E15.5 Contractor shall provide labor, materials and equipment as may be required for maintenance to glycol heating system.
- E15.6 All works associated with the **Frost Protection Glycol Heating System** shall be removed as directed by Contract Administrator. Contractor shall dewater the excavations continuously from snow melt and/or rain as required for preventing frost penetration into the soil.
- E15.7 The **Frost Protection Glycol Heating System** shall be in operation between December1, 2015 to April 1, 2016. Removal shall be completed within 3 weeks from time of notification by the Contract Administrator.
- E15.8 Payment for the **Frost Protection Glycol Heating System** will be Lump Sum as per FORM B (R1): PRICES. The Contractor shall note that the price for the supply and installation of Insulated Tarpaulins shall be included in the Lump Sum Price for the Work described in E15.

Add: E16 **Frost Protection Glycol Heating System Ancillary Equipment and Materials**

- E16.1 The work shall include the supply, installation, maintenance and removal of natural gas piping and electrical equipment necessary to the operation of the Frost Protection Glycol Heating System.
- E16.2 The South End Water Pollution Control Centre has 6 lb natural gas running full length of the plant on the roof. The Contractor shall obtain the necessary permits to tie into the existing natural gas piping and supply and install all natural gas piping, valves, meters, and regulators required for the glycol system heating units.
- E16.3 Power for heating equipment utilized shall be obtained from the nearest available existing panel(s). The Contractor shall obtain the necessary permits, tie into the existing panels, and supply and install all electrical conduits, conductors, and breakers necessary to energize the glycol system equipment.
- E16.4 All works associated with the **Frost Protection Glycol Heating System Ancillary Equipment and Materials** shall be removed as directed by Contract Administrator.
- E16.5 Payment for the **Frost Protection Glycol Heating System Ancillary Equipment and Materials** will be from Cash Allowance identified in FORM B (R1): PRICES.

DRAWINGS

Replace: 601-2015_Drawing_1-0102-AGAD-G011-R00 with 601-2015_Addendum_1-Drawing_1-0102- AGAD-G011-R01

QUESTIONS AND ANSWERS

Q1: For the cash allowances identified in item D.1 in Form B Prices, who is responsible if the costs exceed the allowed amounts for the cash allowances? If it costs \$150,000 for the Road and Parking area Maintenance, who pays for the additional \$50,000?

A1: Should the required Work exceed the Cash Allowance, a Contract Change Notice will be issued to the Contractor for pricing the additional work. If accepted by the City an Authorization for Contract Change will be issued to the Contractor prior to proceeding with the work.

Q2: The Contract documents indicate that we are to install the HRC Bridge, HRC Bridge grating and handrails. The shop drawings have been provided, but the location has not been indicated on the plan? Where is this to be installed? In addition is the other FRP grating shown on the drawings to be supplied by the City of Winnipeg? If the Contractor is to supply, can you provide a specification?

A2: Please see Drawing 0102-PGAD-K002. The bridge and associated grating and handrails are located between Gridlines 5k and 6k. All other FRP grating shown on the drawings are to be Supplied and Installed as part of Bid Op 601-2015.

Q3: In section 01 11 00 summary of work, it indicates that the fill concrete in the settling tanks is to be completed by others. However, are we required to install the 50mm concrete topping over the fill concrete as part of this contract as shown on drawing SGAD-K007?

A3: No

Q4: It would appear that backfilling the concrete structure is to be included in the scope of Contract 2. However, there has been no specification provided. Can you please provide?

A4: Structural drawings show the backfill requirements. Also, please the City of Winnipeg Standard Construction Specifications, which are applicable to Bid Op 601-2015. Specifically, please see CW 2030 and CW 3170

Q5: The precast double tees shown on drawing SGAD-K004 (attached) are shown at 8' widths. Is there an opportunity to alter the widths of these to 12'? Cost savings come in less production time, less freight to site. If 12' does not work, 10' widths are also an option. Would altering the widths affect other components of the design?

A5: Precast double tees shown on drawing 1-0102-SGAD-K004 may be provided in an alternative width up to 3.7m as requested. HVAC opening in tees shall remain at the location originally shown. Please consider overall installed costs and availability of a crane with adequate capacity for installation at the construction site in pursuing this option.