

2ND July 2015ADDENDUM #1

- 1.0 PRECEDENCE**
- .1 This addendum, Addendum #1 shall be read in conjunction with all Bear Lake Water System Upgrade Tender and Contract Documents. Where conflicts or discrepancies between those documents and this addendum arise, this addendum shall take precedence.
- 2.0 SCOPE**
- .1 Addendum #1 is issued as a clarification to questions arising from the on-site mandatory meeting held on Friday, the 26th June.
- .2 Addendum #1 states additional requirements to the SECTION 15000-Packaged Equipment specification.
- .3 Addendum #1 comprises 5 pages.
- 3.0 QA/QC**
- .1 This item clarifies a question from the site meeting on the 26th June 2015.
- .2 The Contractor is responsible for Quality Control, as indicated by Definition 1.57 of the MMCD General Conditions of Contract.
- .3 The Engineer will periodically require Quality Assurance checks as indicated by Definition 1.56 of the MMCD General Conditions of Contract. Where such checks are performed, they will be dealt with as described in the Supplementary General Conditions of Contract, SGC 2, Item 4.12.4.
- 4.0 WATERMAIN ALIGNMENT**
- .1 This item clarifies a question from the site meeting on the 26th June 2015.
- .2 The watermain alignment shall in the first instance be taken as shown on the contract drawings. The Engineer may make minor field adjustments as he sees fit at the time of construction, if such adjustments will benefit the outcome of the constructed works.
- .3 The Engineer may make adjustments to both the horizontal as well as vertical alignments. In the case of Cub Street, there is the potential for the water table to be higher than the minimum watermain depth of bury. In such cases, the Engineer will likely adjust the vertical alignment of the watermain to be above the water table

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and require the pipe to be insulated. It is not intended at the tender stage that the Contractor make provision for dewatering to install the main.

5.0 GROUND DISTURBANCE

- .1 This item clarifies a question from the site meeting on the 26th
- .2 The Contractor shall strip and stockpile topsoil in order to install and backfill the watermain. The topsoil shall be re-used for reinstatement, as provided for in the Supplementary General Conditions of Contract SGC 8, Item **2.1-Stripping** of the Measurement and Payment section.
- .3 Should reinstatement be required because of disturbance occurring outside of the designated work areas, these shall be rectified by the Contractor, including providing the necessary reinstatement materials, at no additional cost to the Regional District.
- .4 The Contractor shall be responsible for reinstatement to equal or better condition than that which exists, which, in the case of non-driving surfaces shall include the spreading, growth and maintenance of grass seed.

6.0 WATER SERVICE INTERRUPTIONS

- .1 This item clarifies a question from the site meeting on the 26th
- .2 Refer to Section 02666-Waterworks, Clause 1.7-Scheduling of the Work.
- .3 The Contractor should be aware that the water supply is to a reservoir which has less than 24 hours storage for supplying the mill and the community.

7.0 WATERMAIN CONNECTIONS

- .1 This item clarifies a question from the site meeting on the 26th
- .2 Existing watermain in the community is predominantly Asbestos Cement (AC). The Contractor shall plan for the tie-in connections accordingly.

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- .3 The Contractor shall be responsible for disposing of AC pipe at an authorized disposal facility (Prince George).
- .4 The Regional District does not have a water utility division so that the Contractor will be responsible for all connections and the fittings and work associated therewith.

8.0 CHLORINATION INJECTION POINT CONNECTION

- .1 This item clarifies a question from the site meeting on the 26th
- .2 It is acceptable for the chlorine injection point to be made through a service saddle into the existing pipe in the pump house. Refer to Section 15000-Packaged Equipment, 3.2 HYPO DISINFECTION SYSTEM, 4. Ancillary Components, third bullet. The Contractor may propose an alternate method.

9.0 ADJUSTMENTS TO TECHNICAL SPECIFICATIONS

- .1 Refer to SECTION 15000 – Packaged Equipment, 3.0 PRODUCTS, **3.1 PRESSURE SUSTAINING STATION**
- .2 Referring to **.6 Piping and Fittings**, Paragraph .6 Bolting, delete Paragraph .6 Bolting in its entirety and replace with:

.6 Bolting

Flange assembly bolts shall match piping materials ASTM A 193-B7 studs and ASTM A 194-2H nuts or A193-B8 studs and ASTM A194-8 nuts installed with anti-seize lubricant. Where different materials are in contact (e.g. CS to SS), install phenolic bolt isolation kits (washers/stud sleeves). The exception is butterfly valves, where ASTM A 193-B7 bolts shall be threaded into lugs. Bolt identification stamps shall not be removed and be easily verified in the field for inspection by the engineer. Stud threads shall protrude a minimum of 2 threads, but not more than 12mm past the end of the nut. Assembly and torque of bolts shall be in accordance with AWWA M11 and ASME PCC-1.

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.3 To Item **.6 Pipe and Fittings**, add paragraph .8, as follows:

.8 Victaulic materials may be replaced with welded if:

- Contractor to submit weld procedures to the engineer and weld inspector to suit ASME B31.3
- Welder to be pre-qualified to ASME B31.3, and accepted by BC safety authority
- 10% X-ray of daily welds. 100% visual inspection, Hydro-statically pressure-test welded spools to 31 bar (450psi) for 60mins with zero leak
- Hydro test shall be performed in shop conditions (>15°C), with two certified pressure gauges and non-witness tests shall have a chart recorder with temperature/pressure.
- X-ray to be inspected to ASME B31.3
- All welds to be inspected by a 3rd party certified weld inspector prior to blasting and coatings. Written reports and digital photos shall be submitted to the engineer prior to epoxy coating.
- Tyrod industries or Westpower equipment approved.

.4 To item **.11 Testing**, Clause .2, to “The required Inspection and Testing” add another bullet as follows:

- 100% holiday free coating inspection

.5 To Item **.11 Testing**, add a Clause .5, as follows:

- .5 Manufactured valves, fittings and couplings suppliers shall submit the following prior to commissioning
- Certified holiday free test results
 - Certified hydrostatic test results

10.0 ADJUSTMENTS TO TECHNICAL SPECIFICATIONS

.1 Refer to SECTION 15000 – Packaged Equipment, 3.0 PRODUCTS, **3.2 HYPO DISINFECTION SYSTEM**

.2 Referring to **.1 General**, delete paragraph .6 and replace with the following:

- .6 The disinfection system shall be Grundfos DDA or Prominent Delta, or approved equal.

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.3 Referring to **.5 Eyewash Station**, add a clause .5, as follows:

.5 The Eyewash shall comply with ANSI Z358.1-2014

****** END ADDENDUM #1 ******