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Tender Addendum No. 2

This Addendum consists of **20** pages and **84** Attachment pages, including drawings, plus **3** Excel files

Date	January 26, 2016	**Project No.**	MSA143810.0062
Project	Alma St. Wastewater Pretreatment Facility Upgrades		
To	All Tenderers		

Please confirm that you have received this Addendum by emailing Stephen Gendron at steve.gendron@rjburnside.com.

Please make the following changes/additions to the Bid Documents and complete the addendum table on the first page of the Bid Form (Document B).

DRAWINGS

1.0 Replace Drawings

Replace Multiple Drawings as follows with the attached revised drawings:

i. C001 - Proposed Site Plan
ii. C003 - Civil Details
iii. T001 - Traffic Control Plan
iv. A100 - Architectural Matrix, Wall, Door & Room Finish Schedules
v. A101 - Architectural Main Floor Plan
vi. A102 - Architectural Elevations
vii. A103 - Architectural Building Sections
viii. A104 - Architectural Building Sections
ix. A105 - Architectural Building Sections
x. SD02 - Structural Typical Details
xi. S101 - Structural Foundation Plan
xii. S102 - Structural Main Floor Framing & Support
xiii. S103 - Structural Roof Framing & Support
xiv. S104 - Structural Foundation Details
xv. S105 - Structural Foundation Details
xvi. S106 - Structural Details
xvii. P106 - Equalization Tank Plan and Sections
xviii. E106 - Lighting & Distribution Panels Layout Schedules
xix. I101 - Equalization Tank And Instrumentation Mounting Details
xx. I103 - Process Main Level Floor Plan

xxi. I119 - Network Diagram
xxii. I120 - Network Core Closet
xxiii. A200 - Schedules and Details
xxiv. A201 - Architectural Foundation Floor Plan
xxv. A202 - Architectural Main Floor Plan
xxvi. S202 - Structural Main Floor Support
xxvii. I201 - Public Works Building Main Floor I&C Plan

FRONT END

2.0 Schedule of Unit Prices

Document B – Bid, Appendix C – Schedule

Clarification:

Completion of Appendix C is optional. The award decision is based on the completion date specified in the Bid Documents. If the successful Bidder has completed Schedule C, the proposed adjustments may be considered by the owner post award.

Document B – Bid, Appendix G, General Notes, Section iii

Add the following:

OR

Bidders may opt to complete and submit only Schedule E and the Schedule of Unit Prices/Summary (Page 21 of Document B) by the Bid Closing Time. Bidders are required to submit the fully completed Schedule of Unit Prices within 48 hours of the Bid Closing Time (should this 48 hour period encroach on a weekend, the time between midnight Friday and midnight Sunday shall be considered "zero" hours for the purposes of determining when the breakdown is due). The full breakdown submitted within 48 hours of the Bid Closing Time will be reviewed for reasonable balance by the Contract Administrator. The full breakdown must total to the original Total Bid Price submitted prior to the Bid Closing Time. Should the detailed submission of the successful Bidder be deemed by the Contractor Administrator to potentially negatively impact the Owner's best interests due to pricing imbalance or extension errors in the price breakdown, the successful Bidder will be required to revise and resubmit the price breakdown in order to satisfy the Contract Administrator (in consultation with the Owner). Should this process fail to yield a satisfactory price breakdown in the sole judgement of the Contract Administrator (in consultation with the Owner), or in the event the successful Bidder fails to submit any price breakdown, then the Contract Administrator will develop what he deems to be a

fair price breakdown. The resulting price breakdown will then be imposed upon the successful Bidder who shall then be required to enter into a Contract with the Owner on this basis. There shall be no recourse if the successful Bidder is dissatisfied with the Contract Administrator's price breakdown as all Bidders, by the virtue of their submission of a Bid without a full price breakdown, agree that the Contract Administrator's decision (in consultation with the Owner), is FINAL with respect to the aforementioned matter. This approach does NOT constitute a two-staged bid close nor shall it be interpreted as such.

Document B – Bid, Appendix G, Schedule C Item C38 and Schedule D Item D16

Clarification:

The Bidder is responsible for including prices for all parts of the project. The Bidder should include prices under the most applicable item. If no applicable item is apparent, the Bidder is to include the costs under line Items C38 and D16.

Document B – Bid, Appendix G, Schedule C Item C40 and Schedule D Item D4

Change:

The method of payment for these items shall be changed to lump sum. The combined lump sums for Item C40 and Item D4 will include all labour, materials and equipment to supply and install all the bollards shown on the Contract Drawings.

Document B – Bid, Appendix G, Schedule C Item C17 and C27

Change:

Remove reference to Automatic Transfer Switch from description of Item C27. Pricing for the supply, installation, configuration, and testing of the Automatic Transfer Switch should be included under Line Item C17. Contractor is responsible for ensuring all costs are carried for the Automatic Transfer Switch.

3.0 Liquidated Damages

Document C – General Conditions of Contract, Section C.2.3.29

Delete this clause and replace with the following:

Replace GC 8.02.09.01 Liquidated Damages with the following:

.01 It is agreed by the parties to the Contract that if all the Work associated with the Pretreatment Facility is not completed by the interim completion date of March 31, 2017, as extended in accordance with GC 3.07 or

*elsewhere in the Contract, the Owner will sustain a loss or damage. The parties hereto agree that the Contractor will pay to the Owner the sum of [**Two Thousand Dollars ($2,000.00)**] + HST] as liquidated damages for each and every calendar day delay in completing the Pretreatment Facility related work beyond March 31, 2017. Liquidated damages are not to be construed as a penalty but as a reasonable genuine pre-estimate of the damages expected to be incurred by the Owner as a result of late completion.*

4.0 Contract Time

Document D – General Requirements, Section D.1.1 Contract Time

Delete this clause and replace with the following:

All Works associated with The Alma St. Pretreatment Facility Upgrades under this Contract shall be completed by March 31, 2017. The liquidated damages clause (C.2.3.29) shall attach to this interim completion date. All Works associated with the Public Works Building under this Contract shall be completed by September 30, 2017. The stipulated overall contract substantial performance date is also September 30, 2017. The preceding completion dates are contingent upon Acceptance occurring within three (3) weeks of the Bid Closing Time. The completion dates will be adjusted accordingly should Acceptance occur beyond the three (3) week period following the Bid Closing Time. Weather conditions will not constitute a basis for extension of the completion dates unless, in the sole opinion of the Contract Administrator, conditions have varied substantially from what is reasonably considered normal for the season(s) (i.e., in the event of abnormal inclement weather).

GENERAL

5.0 Dewatering - Permit To Take Water

Section 02141 – Dewatering, Part 1.8

Clarification:

A PTTW is not anticipated to be necessary for this project, per the findings of the Geotechnical report. If a PTTW is required for dewatering purposes, then the impact on project cost and schedule will be discussed at that time, and a Change Order issued as appropriate.

6.0 Shoring and Bracing - Watertightness

Section 02151 – Shoring and Bracing, Part 1.8.2ii

Clarification:

This clause does not apply to Slide Rail Trench Box used in the Ministry ROW. The contractor is responsible for all labour, materials and equipment associated with any necessary dewatering.

7.0 Backfilling

Section 02220 and 02222

Clarification:

Footings and slabs are to be founded on undisturbed native material or bedrock. Where necessary, grade is to be raised with compacted granular material compacted to 100% SMPDD. Where it is necessary to raise the grade of bedrock, lean concrete is to be used. Lean concrete fill is to be used at the locations noted on the drawings. Backfill around structures is to be in accordance with the contract specifications and references OPSS.

8.0 Traffic Control Plan

Clarification:

Contractors are required to allow for all costs associated with the provision of Traffic Control.

Drawing T001

Add the following note:

One - 1.2 by 2.4 metre TC-64 sign to be installed in advance of the construction 100 m east of Wellington Road 32 and one 1.2 by 2.4 metre TC-64 sign to be installed in advance of construction 100 m west of Wellington Road 44 on Highway 7, including the following wording:
HIGHWAY 7,
LANE RESTRICTIONS
NEAR FALL STREET
month/day/year to month/day/year

Clarification:

Temporary concrete barrier has been removed from Drawing T001 and no longer forms part of the traffic control plan. The TC- 54 barrels are to be removed at the end of the workday and road open to 2 lane traffic at night. The revised traffic control plan is shown on T001 (revised)

Clarification:

The temporary pedestrian access ways are to include 1.8 High Modu-Loc pedestrian fence on each side of the walkway. The extent and location is shown on drawing T001 (revised).

Drawing C003

Revision:

For the reinstatement for Highway 7 MTO the Granular B is changed from Type I to Type III (C003 Revised)

The sections showing the road cross section during the lane closures have been revised to clarify the required lane widths, pedestrian fencing and cover requirements for temporary piping (C003 Revised)

Drawing C001:

Clarification:

MH 98 is not to be removed as part of this project. The existing forcemain is to be redirected to MH100 prior to entering MH98. The existing forcemain passing through Manhole 98 is to be removed and the manhole wall repaired. A Slide Rail type Trench Box is required for installation of the forcemain on Highway 7.

STRUCTURAL/ARCHITECTURAL

9.0 Additional Specifications

Specification sections 03450, 06200, 07120, 07130, 07541, 09200, 09300 and 09650 have been added, and are attached to this Addendum.

10.0 Bricks

Clarification:

Bricks are to be standard metric modular (90 mm x 57 mm x 190 mm). Brick from Brampton Brick Limited or other approved manufacturer. Colour to be selected by owner.

11.0 Finish Schedules

Clarification:

Floor finishes are to be sealed concrete as per the finish schedule.

12.0 Preformed Metal Siding and Sheet Metal Roofing

Section 07465 and 07610

Clarification:

Profile CL7040 is to be used for walls and CL840 is to be used for roofs.

13.0 Preformed Metal Siding

Section 07465 – Pre-formed Metal Siding, Part 2.1.1.1

Clarification:

WeatherX has been updated to WeatherXL. References to WeatherX in the specifications are to be changed to WeatherXL.

Section 07465 – Pre-formed Metal Siding, Part 3.2.2

Revision:

Insulation is to be rigid insulation as per wall type W2, and not Spray Polyurethane Foam Insulation as noted in the specifications.

14.0 Fire Resistance Rating

Drawing A100

Clarification:

Wall type W1 has a fire-resistance rating of 60 minutes in accordance with OBC SB-2 Section 2.3.

15.0 Door Schedule

Drawings A200 and A202

Clarification:

Each door panel is to be 915 mm wide; the full door (2 panels) is to be 1,830 mm wide.

16.0 Handrail and stair

Drawing A202 – Stairs and Handrail

Note that handrails have been added to both sides of stairs.

Add the following note:

Stairs are to be designed for a live load of 4.8 kPa and shop drawings are to be provided for review. Handrail is to conform to OBC Subsection 9.8.7.

Remove the following:

Closet with shelf and rod and shower curtain rod are to be removed from the contract.

17.0 Sectional Metal Doors

Section 08362 – Sectional Metal Doors, Part 2.4.3.2

Revision:

Omit requirement for specific size of torsion shaft. Counter balance assembly to be rated by manufacturer as being compatible with size and weight of door.

Section 08362 – Sectional Metal Doors, Part 2.4.7

Clarification:

Hinges for pre-treatment plant overhead door to be stainless steel. Hinges for garage overhead doors on Public Works building may be galvanized steel.

Section 08362 – Sectional Metal Doors, Part 2.5.4.2

Revision:

Omit requirement for outside handles

Section 08362 – Sectional Metal Doors, Part 2.7.1.2

Revision:

All overhead doors to have power openers. Note that electrical equipment located in the Process Room, including door openers, must be rated for operation in a Class 1 Zone 1 environment.

18.0 Design Loading

Design loads are as follows:

Pre-treatment Plant

Post-disaster importance

Dead Load (suspended slab): 7.2 kPa

Snow Load:

Balanced: 2.25 kPa (ULS); 1.62 kPa (SLS)

Unbalanced: 2.64 kPa (ULS); 1.90 kPa (SLS)

Wind Load:

Roof uplift: 1.05 kPa (ULS); 0.63 kPa (SLS)

Live Load: 4.8 kPa

Public Work Building

Normal importance

Dead Load:

Roof: 0.58 kPa

Floor: 0.72 kPa

Snow Load:

Balanced: 1.80 kPa (ULS) 1.62 kPa (SLS)

Unbalanced: 2.05 kPa (ULS); 1.84 kPa (SLS)

Wind Load:

Roof uplift: 0.68 kPa (ULS); 0.51 kPa (SLS)

Live Load:

Garage floor area: 2.4 kPa

Other floor areas: 4.8kPa

19.0 Post-Disaster Structure/Normal Importance Structure

Clarification:

Pre-treatment plant is to be designed to Part 4 as a post-disaster structure. The Public Works Building is to be designed to Part 4 as normal importance structure.

20.0 Concrete Mixes

A list of Classes of concrete and locations for use is provided in the following:

Class N; 25MPa

- strip footings (both buildings)
- blower room slab-on-grade
- Public Works building basement slab-on-grade

Class F-1

- Public Works building foundation walls, except as specified as C-1 below
- Class C-2
- Public Works building garage slab-on-grade
- Public Works building ramp
- sidewalks

Class C-1

- Public Works building foundation walls along south side of building and around garage
- Public Works building exterior stairs
- Pretreatment plant foundation walls around chemical room and blower room (except adjacent to process room)
- chemical room slab-on-grade

Class A-1

- process room foundation walls and slab-on-grade
- walls and base slabs of process channels and tanks
- meter/valve room walls and slab
- wet well walls and slab
- suspended slabs above wet wells and meter/valve room

21.0 Items to be Included/Excluded from the Contract

Clarification of items to be included/excluded from contract:

To be included in contract:

kitchen cabinets and counter-top including sink

washroom fixtures including sink and toilet

shower

laundry tub

Not to be included in contract:

office furniture

kitchen table

all appliances

bench (in room 107)

lockers (in room 107)

PROCESS/MECHANICAL/EQUIPMENT

22.0 Portable Lifting Davit and Sockets

Section 14100, Drawing P102

Clarification:

Two (2) sockets are to be provided at Wetwell #1 and Wetwell #2 for use with a Portable Davit. One (1) portable Davit Crane and one (1) Electric Chain Hoist are to be provided for use with the two (2) sockets at Wet Well #1 and Wetwell #2. The Davit located at the Equalization Tank is separate, and will be covered under the Equalization Tank supplier scope of supply.

23.0 Equalization Tank

Section 15603 – Equalization Tank, Part 2.8

Add clause:

.15 Acceptable Suppliers: H2Flow Tanks & Systems Inc. (Permastore), Greatario Engineered Storage Systems (Aquastore)

Clarification:

Equalization Tank Supplier Scope of Supply

- Tank
- Concrete base
- Venting
- Main top hatch, and blind flange access hatches (x2).
- Ladder c/w safety cage (see attached detail as reference)
- Upper platform
- Railings
- Walkway (non-skid surface tape)
- Lifting Davit (for tools and equipment, not intended to lift mixer) (see revised note on drawing P106)
- 50 mm diameter, schedule 10, S.S. pipe fastened to ladder, complete with camlock fittings as noted on drawing.
- 300 mm diameter, ductile iron supply / drain pipe, from tank to location of first flexible coupling (min. 400 mm beyond outer edge of base slab footing)
- 300 mm diameter, ductile iron overflow pipe, from flange connection (200 mm above base slab) to location of first flexible coupling (min. 400 mm beyond outer edge of base slab footing)

- Pipe / Conduit support brackets, where mounted to tank wall (both inside and outside of tank)
- Pipe support under elbow of 250 mm stainless steel aeration header, at end of overhead span of pipe.
- Appropriate penetration solutions for aeration header and mixer conduit, through tank roof.

Excluded from Tank Supplier Scope of Supply

- Mechanical mixer, including tripod, mounting hardware, benching, and power supply cables.
- Aeration piping, diffusers, and associated floor supports.
- Pressure probe and guide well.
- 300 diameter, stainless steel overflow pipe (from base flange to HWL)

24.0 Drawing P101 – Chemical Tank Containment

Drawing P101

Clarification:

The Chemical Tank is not to be provided with integral secondary containment as noted in the Process Schematic legend. Secondary containment for the Chemical tank will be provided by the depressed Chemical Room floor.

25.0 Drawing P106 – Equalization Tank Roof Access

Drawing P106

Clarification added pertaining to equalization tank roof walkway, as shown on revised drawing P106 attached and the following:

Grated platform projecting from the side of the equalization tank to be provided adjacent to the ladder.

Walkway from platform to peak of roof to be non-skid surface tape.

Railing to be provided around perimeter of platform, along south side of walkway, and along edge of tank, north of walkway (as illustrated on drawing P106, attached).

26.0 Fire Penetration Detail

Drawing M101, Fire Penetration Detail

Remove and replace:

Remove the notes 'Drywall or masonry' & 'Stud' and replace with a note 'Refer to Architectural drawings for wall details'

27.0 Wetwell Inlet Pipe Material

Clarification:

The 450 mm diameter Wetwell Inlet pipes shall be constructed of schedule 10s stainless steel.

ELECTRICAL

28.0 Power Diesel Generation

Section 16238 – Power Diesel Generation

Specification section 16238 Power Diesel Generation to be deleted and replaced with the attached specification.

Clarification:

The contractor shall provide all diesel fuel necessary to test and commission the new generator, Automatic Transfer Switch, and entire facility on standby power to the satisfaction of the Owner and Engineer. Refer to updated specification for details.

29.0 Gas Monitoring

Section 16901 – Instrumentation, Part 2.11

Delete clause 2.11 and replace with the following:

2.11 GAS MONITORING (TREATMENT PLANT)

.1 Suitable for Class 1 Division 1

.2 4-20 mA Outputs & Relay Outputs

.3 24 VDC Supply

.4 Transmitter will be able to operate within relative humidity ranges of 15 to 95 per cent and temperature ranges of -4 degree Fahrenheit to 104 degree Fahrenheit (-20°C to 40°C)

.5 Comes with dry contact relay outputs for Warning, HI, and HIHI

.6 Detector alarm levels are to be activated and the unit is to be installed in accordance with the following parameters:

TOXIC GASES	*FIRST ALARM SET POINT (TLV-TWA)*	*SECOND ALARM SET POINT (TLV-STEL)*	*MOUNTING HEIGHT*
Oxygen O_2	*19.5%*	*23.5%*	*900 mm – 1500 mm (3-5 feet) above the floor*
Hydrogen Sulfide (H_2S)	*10 ppm*	*15 ppm*	*300 mm (1 ft) above the floor*
COMBUSTIBLE GASES	*FIRST ALARM SETPOINT (25% LEL)*	*SECOND ALARM SETPOINT (50% LEL)*	*SENSOR LOCATION*
Methane (CH_4)	*1.25%*	*2.5%*	*300 mm (1 ft) below the ceiling*

Local Building Codes recommendations take precedence over these parameters. Coverage can differ depending on application

.7 Integrated LCD display

.8 Integrated LED display

.9 Provide one (1) calibration kit for each type and one (1) programmer controller module.

.10 For O2 and H2S provide XE series Gas Monitors. Quantities as indicated on the drawings.

.11 For LEL provide XIR series gas Monitors. Quantities as indicated on the drawings.

.12 All transmitter should be mounted at eye level for easy visualization and easy calibration

.13 Transmitter and sensor mounting as per the drawings and manufacturers recommendations.

.14 Unit will be certified to ANSI/UL 61010-1 label and CAN/CSA-C22.2 No. 61010-1. Transmitter must be manufactured in an ISO 9001-2000 production environment.

.15 Calibration lines to be installed and brought back to transmitters from sensors.

.16 Warning, HI Alarm, and Trouble relays need to be wired to RPU panel as per drawings as well as to control HVAC and alarm lights. The contractor shall supply, install, test, and commission a control panel to meet the design requirements for HVAC to accommodate these controls and submit as a shop drawing for review prior to construction. Gas monitors to be powered from this

new HVAC control panel complete with UPS backup and where required 24 VDC power. Include all necessary circuit breakers, terminal blocks, fusing, and other components including indicating lamps, motor controls, resets, lamacoids, Refer to 16902 for further details.

.17 Provide all required EYS seals for wiring between classified and non-classified areas

.18 Provide Intrinsically Safe Relays and barriers as required.

.19 Gas Monitoring for the Public Works Building by Division 15. Co-ordinate as required for all wiring, testing, and commissioning.

.20 Acceptable Manufacturers: MSA or approved equivalent.

30.0 Public Works Building Network Switch

Section 16826 – Communication Network Equipment & RPUs, Part 2.2.7

Refer to drawings released with this addendum with respect to communication cabling for the PoE IP cameras and the direct connection to the security system NVR. Delete clause 2.2.7 and replace with the following;

2.2.7 Public Works Building Network Switch

.1 Supply, install, test, and commission a quantity of one (1) Ethernet switch as follows;

- *.1 Switch to be installed within a rack mount system. Include all mounting hardware.*
- *.2 24 port managed switch*
- *.3 10/100/1000 MB/sec auto sensing ports*
- *.4 120 VAC power adapter to be included*
- *.5 19" rack mount, 1U*
- *.6 Switch to be capable of layer 3 routing and layer 2 switching management including but not limited to VLANs, QoS (IEEE 8021p), SNMP, IPv6, port management*
- *.7 Switch stacking capabilities for future expansion*
- *.8 Power Over Ethernet (PoE) enabled switch*
- *.9 Lifetime warranty to be in the name of the Township of Guelph/Eramosa*

.2 Contractor to configure network switch to provide the following minimum functionality;

- *.1 VLAN segregation for the ports assigned to the DVR and IP cameras to be tagged Security VLAN.*
- *.2 All remaining ports to be used for the data VLAN. Refer to network drawings for details.*
- *.3 QoS to give priority to security VLAN.*

.4 IP addressing and subnet addressing to be co-ordinated with the Engineer prior to configuration.

.5 On site testing with the Engineer and security system provider required.

.6 PoE to be disabled.

.3 HP 2920-24G-PoE+ 370W Switch (J9727A) series or approved equivalent.

31.0 Fine Step Screen and Wash Press - Ultrasonic Transducer

Reference Documentation; Claro – Fine Step Screen & Wash Press – Technical Submittal (R0)

Change in equipment:

The cut sheets in the Reference Documentation show the Ultrasonic Transmitter from Endress+Hauser Prosonic S FMU90 and Ultrasonic Sensor from Endress+Hauser FDU90 for use with the Claro Fine Step Screen. These items have been replaced by Siemens SITRANS LUT420 Level controller and Ultrasonic Transducer XPS-10. They will still be provided by Claro as specified in their design and scope of supply through the Tender Document.

32.0 Electrical Drawing Updates

Drawings E102, E112, E113

The following drawings have been updated as part of this addendum and are to replace the tender drawings however copies will not be provided. Please note the following changes on the drawings.

i. E102- Plant Building – Outdoor Lighting Layout

Add to lighting fixture schedule the following;

Type	Manufacturer	Model	Remarks
A1	LITHONIA	DSX0 LED 20C 530 40K T3M MVOLT DLL 127F1.5JU	LED POLE MOUNTED OUTDOOR LIGHTING

ii. E112 – Control Schematic No. 4

This is a typical VFD control circuit. Add to the listing of typical motors that this schematic is applied to for PMP-321 and PMP-322.

iii. E113 – Control Schematic No. 5

This is a typical VFD control circuit. Delete from the listing of typical motors that this schematic is applied to for PMP-321 and PMP-322.

33.0 Electrical Studies

Section 16950

Clarification:

The Contractor shall provide the harmonic and grounding study. Grounding study to be completed prior to any connections to the hydro utility and the facility not powered. Contractor to also provide all information as necessary for the Engineer to complete the short circuit, co-ordination, and arc flash studies with final breaker settings updated by the Contractor based upon the final results of the studies.

MISCELLANEOUS

34.0 Existing Pretreatment Plant As-Built Drawings

A set of as-built drawings for the existing pretreatment plant are included with this Addendum for reference.

35.0 Bedrock Classification

The Geotechnical report included with the Tender Documents does not provide classification of the bedrock. Bidder's are to use the information available and their own judgement to determine costs associated with the bedrock.

36.0 Private Property Access

Clarification:

For the construction of the sewer parallel to the existing right of way, the contractor is expected to operate within the identified 6 m easement only. The identified reinstatement of the driveway extends beyond the identified easement. A temporary easement will be in place for the work associated with this reinstatement. At all times the Contractor is to maintain vehicle access to the town homes.

37.0 Existing Overflow Tank

Clarification:

Following removal of the existing overflow tank, the excavated area is to be reinstated with select native material in accordance with the provisions of the contract for general backfill.

38.0 Construction and Sewage Sequencing

A **sample** Construction and Sewage Sequencing plan related to the sewage works has been included with this Addendum for reference purposes only. Prior to construction the contractor shall prepare their own staging plan to determine the most efficient sequence for completing these tasks, along with the rest of the site work proposed under this contract.

Clarification:

The Valley Road Pump Station is located at 197 Valley Road, and the wetwell is 6.4 metres deep and 2.4 metres in diameter.

Manhole 98 is approximately 5.75 metres deep. The diameter is unconfirmed at this time, but assumed to be 1,200 mm.

Maximum existing sewer capacity downstream of manhole 98 is calculated to be approximately 37 L/s under surcharge conditions. Any bypass pumping operations discharging to this sewer should not exceed this rate.

Three (3) Excel files are included with this Addendum, showing the Valley Road Sewage Pumping Station flow data for the last 6 months, for reference purposes.

SWG:mp

Attachments for Addendum #2

1. Existing plant drawing set (1 @ 12 pages)
2. Revised Drawing Package (1 @ 27 pages)
3. Additional Specifications (1 @ 41 pages)
4. Attendance Record for Site Meeting (1 @ 3 pages)
5. Construction and Sewage Sequencing Plan Plan (1 Page)
6. Flow Data from Valley Rd Sewage Pumping Station (3 Excel files)

Total Attachment Pages 84 not including Attachment 14 (Excel Files)