



195-2024 ADDENDUM 3

MACLEAN REGIONAL PUMP STATION VALVE HOUSE ELECTRICAL UPGRADE

URGENT

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

ISSUED: May 10, 2024
BY: Cole Lange
TELEPHONE NO. 204 453-2301 x4021

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

Template Version: Add 2024-02-01

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

APPENDICES

Replace: 195-2024_Appendix_G with 195-2024_Addendum_3_Appendix_G

NMS SPECIFICATIONS

Section 26 05 00 Common Work Results for Electrical

Revise: 1.11.1.1 to read: Valve House: Category 2 (NEMA 4X equipment rating required) corrosive environment containing various chlorine compounds (e.g. chlorides, chloramines, etc.) where exposed to the reservoir, Ordinary (NEMA 12 equipment rating required) otherwise.

Section 26 50 00 Lighting

Add: 2.3.5.2 The following approved equals submitted in accordance with B7 of the Tender:

Add: 2.3.5.2.1 Type 1: Columbia Lighting Cat. No. CVT4-LSCS-MV.

Add: 2.3.5.2.2 Type 2: Columbia Lighting Cat. No. CRN2-1-LSCS-EDU.

Add: 2.3.5.2.3 Type 3: EXO Lighting Cat. No. SG1-10-5K7-FT-UNV-DBT-PCU.

QUESTIONS AND ANSWERS

Q1: Can you provide further clarification on the rating requirements for the electrical equipment within the Valve House? Is 3R acceptable for the MCC, and will 3R be acceptable for other electrical equipment?

A1: The electrical classifications for the space within the MacLean Valve House shall be changed to the following: NEMA 12 for the main MCC room, NEMA 12 for the lower level, NEMA 4X for the overflow channel room, and NEMA 4X for the pumping room. For clarity, the spaces rated for NEMA 4X are directly exposed to the reservoir.

Q2: Is a Gantt Chart/Schedule required at the time of tender, or can this be provided once awarded?

A2: A Detailed Work Schedule is to be provided prior to commencement of any Work on the Site. It is not required to be submitted with the Bid. Further details are available in Tender D16.

Q3: Can the LAV and LRV pit drawings be provided?

A3: Yes. See the additional drawings in Appendix G.

Q4: Does temporary equipment for the valve house temp power need to be Category 2 / NEMA 4X or can it be NEMA 12 for wet area only, as it is temporary?

A4: There is no requirement for temporarily installed equipment.

Q5: Per site tour, the existing underground conduits we are to use seem to be full. As we must provide a new fibre connection and PLC integration before replacing the MCC, is there an alternative to utilizing this conduit?

A5: There are no alternative conduits outside of the four entering into the lower level of the Valve House. The fibre optic cabling can be run alongside the control cabling.

Q6: There is no note to remove or replace existing cable trays. Are these to be demolished? Are new cable trays required or can we install strut racking instead?

A6: The cable tray does not need to be replaced.

Q7: Is any portion of the LAV-1, LAV-2, LRV-1, LRV-2, wiring to be replaced in the Valve House?

A7: It is not expected that any portion of the wiring will need to be replaced.

Q8: Can you please confirm that existing wiring in slab (i.e. lighting circuitry) should be acceptable to be maintained and re-used?

A8: Where wiring is run within conduit in the slab, the wiring should be replaced, per Drawings.

Q9: Is there information available on all of the existing valve actuators? (shop drawings, O&M manuals), they at least need the model numbers of the existing to cross reference.

A9: Due to the age of the actuators, information is available in limited capacities. The following information is from various records; however, the successful Bidder shall review, measure, and confirm information on site prior to any design or supply:

LSV-1, LSV-2, and LSV-3 are equipped with Limitorque Control Units, Type SMA, Size 00, Ratio 57:6 V-8; and Peerless Electric Motors, ½ HP, 1750 RPM, Frame P12C, Volts 550, Amperes 0.9, Phase 3, Frequency 60 Hz, Torque 7.5 lb-ft.

LAV-1 uses a IQ20B4 WT actuator c/w IW9R960 gearbox. Max rating of 142 Nm actuator, 54,065 Nm combination, Actuator Speed 115 RPM, Operating Time (combination) 125 seconds, Max bore 30mm actuator, 178mm gearbox, Voltage 575V/3P/60Hz, Amperage 3.8A rated torque, 15.5A locked rotor, Gearbox ratio 960, mech. advantage 380.

Q10: With the (3) pedestal units, can you provide clarification that the existing extensions and pedestals can be used or if new ones are required?

A10: New pedestals are required and are to be provided in accordance with NMS Section 25 30 02 Valve Actuators. The existing extensions are to be re-used.

Q11: With the (3) pedestal units, can you provide clarification on pedestal mounting flange dimensions/bolt pattern, and extension diameter, if existing are being used?

A11: Per A10, above, new pedestals are to be installed with re-use of the existing extensions.

Q12: With the (4) valve pit units, can you provide clarification that the requirement is for actuator and gear replacement?

A12: Yes, replacement is for the actuators and gearbox.

Q13: [cont. from Q12] If so, complete details on the valve torque requirements at the expected pressure differential for each valve are required. Also, valve top works drawing or details on the valve nameplate are required to determine mounting adaption.

A13: Additional details for the existing actuators has been provided in A9, above. Existing mounting details, and shop drawing, for LAV-1 has been included at the end of Appendix G. The City will work with the successful bidder to provide further information should it be required.