

**ADDENDUM #2
LIFT STATION NO. 45 PUMPING AND FORCEMAIN IMPROVEMENTS
CITY OF DULUTH
PROJECT NO. 0892SN
BID NO. 11-0446
NOVEMBER 10, 2011**

NOTICE

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This Addendum is issued to modify, explain or correct the original drawings, specifications and/or previous addendums and is hereby made a part of the Contract Documents. Please attach this Addendum to the specifications in your possession and note receipt of this Addendum on The Request For Bid. The bid date remains unchanged.

PROJECT SPECIFICATIONS

SPECIAL PROVISIONS

REPLACE item No.1 SP-9, description of the Lift Station No. 45 Improvements with the following:

“1) Lift Station No. 45 Improvements shall be paid for as lump sum item. This item includes mobilization, coordination of subcontractors and the City’s system integrator (In Control Systems), construction of the new control panel by the Contractor’s system integrator, removal of existing pumps and cables, electrical and control system modifications, installations of the Lakeside Interceptor Level Monitor at WLSSD manhole LS029, forcemain removal or abandonment where specified, forcemain installation, and associated restorations.”

REPLACE item No. 4 SP-9, description of the System Integrator Allowance with the following:

“4) System Integrator Allowance shall be paid for as a lump sum item. This allowance will contract Instrument Control Systems for control and SCADA related services currently contracted to the City of Duluth. The system integrator will provide programming, startup and training services, and O&M preparation.

DIVISION 01

REPLACE Section 01 21 00 Allowances, 2 Pages, with the attached Section 01 21 00.

DIVISION 26

REPLACE Section 26 90 01, Page 6, Part 2.01-A.1, with the following:

- A. The system integrator shall be a firm specializing in the integration of control systems with documented experience in the detailed design, construction, configuration, and maintenance of PLC based control systems and motor control centers for the water/wastewater utility market. This experience must include a minimum of five projects similar in nature to this project during the last five years.
- B. Acceptable system integrators include:
 - 1. Instrument Control Systems, Inc., 13005 16th Avenue North, suite 100, Plymouth, MN. 55441. Contact Travis Moran (Phone: 1-763-559-0568).
 - 2. Quality Control & Integration, Inc., 11975 Portland Ave. South, Suite 122, Burnsville, MN. 55337. Contact Bill Toennes Jr. (Phone: 1-952-808-5180).

DIVISION 26

ADD the following paragraphs to Section 26 90 01, Page 12, Part 2.03-C.

- 3. If communication from the Lakeside Interceptor Level Manhole fails for any reason the LS45 discharge rate needs to be limited to pump low speed discharge setting, however, two pumps can still run at the low speed. If the level communication is lost, any pump(s) called to run shall operate at the pump VFD minimum speed set point.
- 4. If the backup float is activated it shall limit the pump(s) VFD speed to the minimum set point. If the backup float is activated, it shall also trigger a high level alarm.

PROJECT PLANS

PLAN SHEET NO. P-2

ADD the following note to the General Notes.

- 4. Contractor shall include a minimum of four (4) 45-degree bends, associated pipe sections, and all necessary labor and equipment to install a deflection to allow the proposed 16-inch HDPE forcemain to be routed over or under an existing 15-inch VCP gravity sanitary sewer that may be in conflict near Gladstone Street.

PLAN SHEET NO. E5

ADD a backup float in the level sensing manhole, the float will be installed two feet below the manhole rim. Contractor shall add and an additional conduit, sized to accommodate the backup float cable. Future conduit shall not be used for installation of backup float and cable. If the backup float is activated it shall limit the pump(s) VFD speed to the minimum set point. If the backup float is triggered, it shall also trigger a high level alarm.

END OF ADDENDUM

1 SECTION 01 21 00

2
3 ALLOWANCES

4 PART 1 GENERAL

5 1.01 APPLICABLE PROVISIONS

6 A. Applicable provisions of Division 1 shall govern work of this section.

7 1.02 APPLICABLE PUBLICATIONS (NONE)

8 1.03 DESCRIPTION OF WORK

9 A. To provide adequate budget and bonding to cover items not precisely determined
10 prior to bidding, or previously quoted and bid work, include in the Contract Price the
11 costs or quantities described in this Section.

12 B. Adjustment of Cost:

13 1. If cost or quantity is more or less than the specified allowance, Contract Price
14 will be adjusted by Change Order, unless stated otherwise herein.

15 2. Submit documentation for engineer review for the actual costs or quantities
16 after completion of Work. Documentation shall include actual invoices or
17 billing statements and evidence of payment.

18 3. Contractor markup on allowance items is not permitted.

19 C. Designate in schedule of values costs and quantities required under each allowance.

20 1.04 RELATED WORK ELSEWHERE

21 A. Procurement and Contracting Requirements - Division 00 (All Sections)

22 1.05 SUBMITTALS (NONE)

23 1.06 OPERATION/MAINTENANCE MANUALS AND INSTRUCTIONS (NONE)

24 1.07 SPECIFIC ALLOWANCES

25 A. System Integrator Allowance

26 1. System Integrator Allowance shall be paid for as a lump sum item for
27 services rendered by the City of Duluth's selected system integrator,
28 Instrument Control Systems. For bidding purposes, the Contractor shall
29 include \$50,000.00 in his bid for the System Integrator cost. This allowance
30 will be adjusted to cover:

31 a. The actual costs of the control system integrator for the design,
32 programming, associated equipment, and start-up testing of the new
33 Lift Station No. 45 control and telemetry system. Contractor's
34 associated costs for furnishing and installing the new control panels
35 for Lift Station No. 45 (LS-45-1) and the Interceptor Control Panel

1 (LCP-45-2)are not included in lump sum System Integrator
2 Allowance, and shall be included in Contractors lump sum price for
3 the Lift Station No. 45 Improvements, Bid Item No. 1. Control
4 panels shall be in accordance with all technical specifications in
5 Division 26.

- 6 b. The actual costs of modifying the existing Lift Station No. 45 control
7 panel to make it suitable for relocation to Lift Station No. 16,
8 including programming, startup and training services, and O&M
9 preparation. Contractor shall be responsible for costs associated with
10 processing submittals from the System Integrator, coordination of
11 equipment and material deliveries to the site, installation, and
12 coordination of the sub-contractor(s). Contractor associated costs are
13 not included in lump sum System Integrator Allowance, and shall be
14 included in Contractors price for the Lift Station No. 16 bid item.

15 B. Electric Service Allowance

- 16 1. The Contractor shall coordinate a new electric service at Lift Station 16. For
17 bidding purposes, the Contractor shall include \$2,000 in his bid for electric
18 service. This cost shall cover installation/upgrade of new electric service to
19 the site.
20 2. The Contractor shall coordinate a new electric service at Level Monitoring
21 Manhole No. LS029 for electrical need to operate an ultrasonic level element
22 and transmitter. The Contractor shall include \$1,500 in his bid for electrical
23 service to this location. This cost shall also cover the necessary coordination
24 with the System Integrator to allow this site to be connected into the City's
25 SCADA system.

26 PART 2 PRODUCTS AND MATERIALS (N/A)

27 PART 3 CONSTRUCTION METHODS (N/A)

28 PART 4 MEASUREMENT AND PAYMENT (N/A)

29
30 END OF SECTION