

**ADDENDUM #23
BID NO. 2009-T**

Issue Date: September 9, 2009

Project: South Columbia County Regional Wastewater Treatment Plant

Notice to all bidders is hereby given that the following modification is made to the Request for Bids referenced above:

Specification Revisions

The following revisions have been made to the project specifications:

Section 11377 Sequential Batch Reactor Equipment

Paragraph 2.09 A. Replace paragraph 2.09 A, in its entirety, with the following:

“Blower shall be 460 V/3Ø/60 Hz and made to deliver 360 scfm at 10 psig. Process blowers shall include angle frame table top, base, silencers, air filter, v-belt drive with guard, 20 HP electric motor and changeable pulleys.”

Paragraph 2.10 B. Replace paragraph 2.09 B, in its entirety, with the following:

“Circulation pumps shall be 460 V/3Ø/60 Hz and made to deliver 1,650 gpm at 22 feet TDH. The pumps shall be powered by 15 Hp electric motors.”

Paragraph 2.13 A. Add the following to the end of Paragraph 2.13 A:

5. Digester Blower
6. Sprayfield Pumps
7. Chemical Pumps
8. Chlorine Effluent Pumps”

SECTION 11360 Positive Displacement Blowers

Paragraph 2.03 B.1. Replace Paragraph 2.03 B.1, in its entirety, with the following:

“1. Two (2) control panels shall be provided to operate the three (3) new blowers for the SBR and the two (2) new blowers for the Digester. The control panels shall be complete with main circuit breaker, surge protection, relays, timers, hand switches, alarm and status indicators, enclosures, alarm flasher and audible alarm. The alarm beacon shall be Edwards Model 57R-AY Xenon Strobe-Type or equal.”

Paragraph 2.03 B.3. Replace Paragraph 2.03 B.3, in its entirety, with the following:

“3. The panel shall be suitable for 120-volt, 1-phase incoming power. Conduit entry to the panel shall be from the bottom only.”

Section 16110 Raceways and Fittings

Section 16110 has been added to the project specifications. Attached to this addendum is Specification Section 16110.

Each bid submitted in response to this Request for Bids shall include an acknowledgement of this addendum.

1 SECTION 16110

2
3 RACEWAYS AND FITTINGS

4
5
6 PART 1 - GENERAL

7
8 SCOPE OF WORK:

9
10 Furnish and install complete raceway systems as indicated on the Drawings and as specified
11 herein.

12
13 All electrical wiring shall be in conduit unless indicated otherwise on the drawings.

14
15 APPLICATIONS:

16
17 In general all above grade wiring shall be installed in Rigid Aluminum Conduit, unless otherwise
18 indicated in this specification or on the drawings. An exception to this requirement is conduits
19 leaving the lift station wet well which shall be schedule 40 PVC as shown on the Pump Control
20 Panel installation drawing.

21
22 All conduits installed below grade or embedded in concrete shall be Rigid Plastic Conduit unless
23 otherwise indicated on the drawings.

24
25 Duct banks installed below grade under roadways shall be concrete encased.

26
27 All expose conduits shall be Rigid Aluminum Conduit unless otherwise indicated on the
28 drawings.

29
30 All conduits installed in exposed in a highly corrosive atmosphere shall be Rigid Plastic Conduit.

31
32
33 PART 2 - PRODUCTS

34
35 GENERAL:

36
37 All conduit of a given type shall be the product of one manufacturer.

38
39 RIGID ALUMINUM CONDUIT AND FITTINGS:

40
41 Rigid aluminum conduit shall be fabricated of 6063 aluminum alloys with T-1 temper.

42
43 Rigid aluminum conduit shall be manufactured to Federal Specification WW-C-540c,
44 Underwriter's Laboratories UL-6 and the latest revision of American Standards Association C
45 80.5.

46
47 Coupling, fittings, pipe straps, spacers and unistrut shall be made of aluminum.

48
49 Fitting for rigid aluminum conduit shall be manufactured by Thomas & Betts or approved
50 equal.

1 FLEXIBLE METAL CONDUIT AND FITTINGS:

2
3 Fittings for flexible metal conduit shall be of the screw-in type as manufactured by RACO, Steel
4 City, or T&B.

5
6 Liquid tight flexible metal conduit shall be UL listed spiral wound galvanized steel with a PVC
7 outer jacket type.

8
9
10 PART 3 - EXECUTION

11
12 INSTALLATION:

13
14 No more than three (3) 90 degree bends shall be allowed in a conduit run. Pull boxes shall be
15 provided as required or directed.

16
17 Conduit smaller than 1/2-in electrical trade size shall not be used.

18
19 Wire shall not be pulled until the conduit system is complete in all details.
20 The ends of all conduits shall be tightly plugged to exclude dust and moisture during
21 construction.

22
23 Metal conduit terminating in knockouts shall have Meyers hubs with insulated bushings.

24
25 Rigid metal conduits shall be installed using threaded fittings and couplings.

26
27 Flexible, liquid-tight metal conduit shall be used for all motor terminations and other equipment
28 where vibration is present.

29
30 Transitions from rigid metal conduit to PVC conduit shall be made two to three inches above
31 finished grade. Finished grade shall be such that the conduit transition area shall not ever be
32 subject to puddles of standing water.

33
34 Conduit support shall be spaced at intervals of 8 ft. or less, as required to obtain rigid
35 construction.

36
37 Single conduits shall be supported by means of two-hole pipe straps approved for the purpose.

38
39 Provide expansion coupling every 100 feet for long runs of conduit and at concrete expansion
40 joints.

41
42 On metallic conduit with expansion couplings provide UL approved ground bounding around
43 each expansion coupling sized according to Table 250-95 of the NEC.

44
45 Set tops of conduits installed underground a minimum of two feet below finish grade unless
46 indicated otherwise on the drawings.

47
48 *** END OF SECTION ***