



**SAN BERNARDINO COUNTY
DEPARTMENT OF PUBLIC WORKS - SPECIAL DISTRICTS**

**ADDENDUM NO. 1
TO THE BIDDING REQUIREMENTS &
CONTRACT DOCUMENTS FOR
CSA 70 – SCREW PRESS SLUDGE DEWATERING PROJECT**

May 14, 2021

The Contract Documents for the above referenced project are hereby amended in the following manner and the following manner only:

- I. All provisions of this Addendum No. 1 are hereby incorporated into the Contract documents, and Bidders shall account for all provisions pursuant to this Addendum No. 1 in submitting their bid proposals. **Each Bidder shall include a dated and signed copy of this Addendum with their sealed bid proposal.**

1. ITEM NO. 1: BID OPENING

A. Opening of Bids: Due to the Covid-19 pandemic and to ensure compliance with social distancing requirements, the bid opening will be conducted virtually via GoToMeeting. Bids (both paper and ePro) shall be opened and read aloud at the place and time set in the Advertisement For Bids. The Call In Number, Access Code, and link information for this bid opening are below: •

- a. **Call In Number:** (872) 240-3412
- b. **Access Code:** 596-533-925#
- c. **Link:** <https://global.gotomeeting.com/join/596533925>

2. ITEM NO. 2: MODIFY DRAWING SHEET C-07

District shall provide the 4” Motor Activated Plug Valve. See attached Drawing Sheet C-07.

3. ITEM NO.3: MODIFY DRAWING SHEET S-03

Delete platform for the WAS diversion structure. See attached Drawing Sheet S-03.

**4. ITEM NO. 4: MODIFY TECHNICAL SPECIFICATION – SECTION 467600 – RESIDUALS
DEWATERING EQUIPMENT**

A. Change Section 2.3 Item A, 1:

Original - “Sludge dewatering press shall be manufactured from AISI 304L stainless steel shapes (rods, angles, and channels), pipes, and sheets. In particular, wedge wire basket, screw, shaft, covers; support legs, fasteners and anchor bolts shall be made of this material.”

Revised – “Sludge dewatering press shall be manufactured from AISI 304L stainless steel shapes (rods, angles, and channels), pipes, and sheets. In particular, wedge wire basket, screw, shaft, covers, all support legs, complete support frame, complete housing, fasteners and anchor bolts shall be made of this material.”

B. Change Section 2.3 Item A, 2:

Original – “Wipers for helical screw flights shall be of wear resistant polyurethane (PU) material. Wipers must have a basket contact width of at least .315 in (8 mm). The wiper shall be held in place by stainless steel clamps and set screws which can be easily removed. The wiper shall have a self-contained a dampening mechanism to maintain constant contact with the basket while limiting wear. Wiper self-contained dampening mechanism shall compensate for up to 4mm of radial wiper wear. Brushes or wipers without this functionality shall not be accepted.”

Revised - “Wipers for helical screw flights shall be of wear resistant polyurethane (PU) material. Wipers must have a basket contact width of at least .315 in (8 mm) to provide sufficient basket cleaning. The wiper is held in place by stainless steel clamps and set screws, which can be easily removed. The wiper shall have a self-contained a dampening mechanism to maintain constant contact with the basket while limiting wear. Wiper self-contained dampening mechanism shall compensate for up to 4mm of radial wiper wear. Equipment using brushes or wipers without this functionality shall provide service trips and replacement parts for the first two (2) brush or wiper replacements to account for additional maintenance time. Equipment without wipers or brushes shall provide four (4) replacement baskets and augers to account for additional equipment wear.”

C. Change Section 2.3 Item B, 1:

Original – “The screw press shall be installed inclined (at 15°). Dewatering of the sludge must occur in a fabricated screening basket consisting of three sections of wedge wire baskets. The overall basket length shall be 86 in (2,250 mm). The basket diameter shall be 17 in (440 mm)”

Revised – “The screw press shall be installed inclined (at 15°). Horizontal units, if supplied, shall provide a diverter chute to prevent wet material from discharging into the downstream process during startup. Dewatering of the sludge takes place in a basket, which consists of three sections of wedge wire baskets. Basket openings shall vary in each of the three sections, from wider openings to tighter openings, to facilitate optimum release of water from the sludge. The overall basket length shall be 86 in (2,250 mm). The basket diameter shall be 17 in (440 mm). Baskets with constant basket opening sizes must provide a minimum basket length of 138 in (3,500 mm) to facilitate additional detention time in the unit for water release.

D. Change Section Item 2.3, B, 6:

Original – “A screw drive shall be provided at the sludge feed side of the press. The nominal motor power shall be 2.0 HP. The motor speed shall be controlled with a VFD. The drive unit shall be directly coupled to the screw shaft through a gearbox.”

Revised – “A screw drive shall be provided at the sludge feed side of the press. The nominal motor power shall be 2.0 HP. The motor shall be a Permanent Magnet, IE4 rated motor in order to run the screw speed down to 10% for

optimal performance and offer 25% higher efficiency compared to an asynchronous motor. Non-Permanent Magnet motors without IE4 classification will not be allowed. The motor speed shall be controlled with a VFD. The drive unit shall be directly coupled to the screw shaft through a gearbox.”

E. Change Section 2.3 Item B, 8:

Original - “Spray water supply shall be designed for a minimum flow of 28 GPM (can be filtered non-potable water, allowed particle size 500 microns at maximum 200 ppm) at minimum pressure of 70 PSI. Water pressure at each nozzle of the spray bar shall be a minimum of 70 PSIG. Average spray water consumption shall not exceed 21 Gallons at 70 PSIG per wash cycle. The basket shall rotate with maximum speed as mentioned in”

Revised - “**Spray water supply shall be designed for a minimum flow of 28 gpm (can be filtered non-potable water, allowed particle size 800 microns at maximum 200 ppm) at a minimum pressure of 70 psig. Water pressure at each nozzle of the spray bar shall be a minimum of 70 psig. Average spray water consumption shall not exceed 21 Gallons at 70 psig per wash cycle. Spray washing systems that operate at pressures less than 70 psig shall provide any necessary basket cleaning services at the owner’s request for the first 10 years of operation to account for insufficient cleaning of the basket.**”

F. Change Section 2.3 Item B, 10:

Original - “Sludge cake shall be automatically discharged through a rectangular sludge discharge opening. The discharge height shall be minimum 37.5 in above floor level.”

Revised - “**Sludge cake shall be automatically discharged through a rectangular sludge discharge opening. The discharge height shall be minimum 37 in above floor level. Designs with standard discharge heights lower than this minimum level must include provisions to interface properly with downstream equipment. They must include structural supports certified by an engineer registered in the state of California and a fixed platform to allow proper service access to the equipment around all sides of the equipment. The platform must be at the same height as the raised screw press support legs.**”

G. Add Section 2.3 Item B, 11:

“The screw press shall not exceed 3,800lb in operational weight”

H. Change Section 2.5, Item B:

Original - “The gear reducer shall be driven by a 1,680 rpm, 3-phase, 60 Hertz, 230/460 volt, continuous-duty motor with a conduit box suitable for outdoor operation. The motor power shall be 2.0 hp.”

Revised - “**The gear reducer shall be driven by a 1,680 rpm, 3-phase, 60 Hertz, 230/460 volt, continuous-duty motor with a conduit box suitable for outdoor operation. Permanent Magnet, IE4 rated motor in order to run the auger speed down to 10% for optimal performance and offer 25% higher efficiency compared to an asynchronous motor. Non-Permanent Magnet motors without IE4 classification will not be allowed.**”

The above items modify the bid documents in the manner prescribed and in that manner only. All other contract items will remain as originally intended. Contractor will sign/date this addendum and submit with their bid as acknowledgement of receiving and complying with this addendum.

ISSUE DATE: May 14, 2021

Date Acknowledged by Bidder: _____

By: *Nelson Sarti* _____

Nelson Sarti, Project Manager
Department of Public Works – Special Districts
Project Management Division

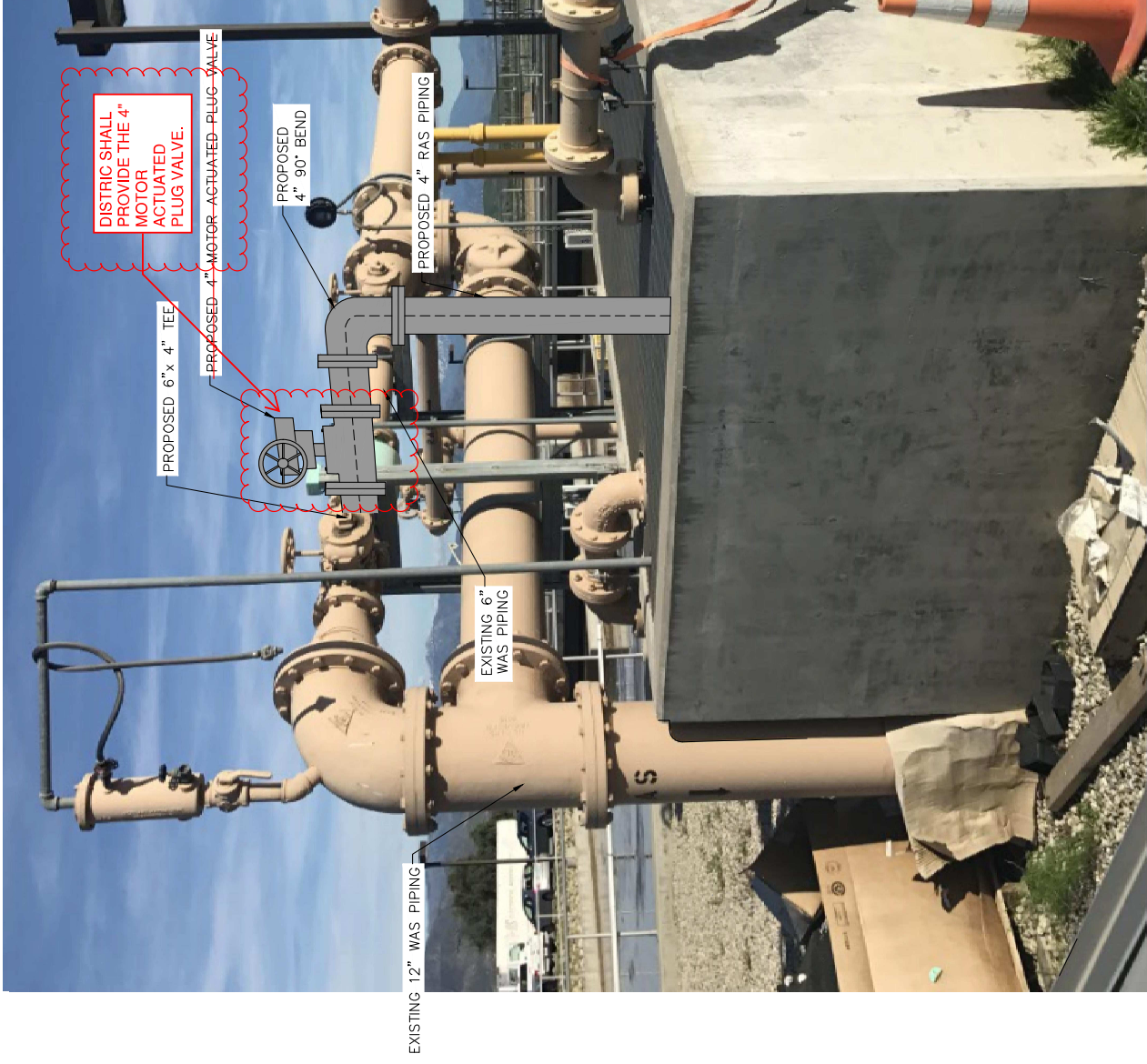
By: _____

Bidders Company Name

Bidders Signature

Attachments

ADDENDUM NO. 1



EXISTING 12" WAS PIPING

EXISTING 6" WAS PIPING

PROPOSED 4" RAS PIPING

PROPOSED 4" 90° BEND

PROPOSED 6" x 4" TEE

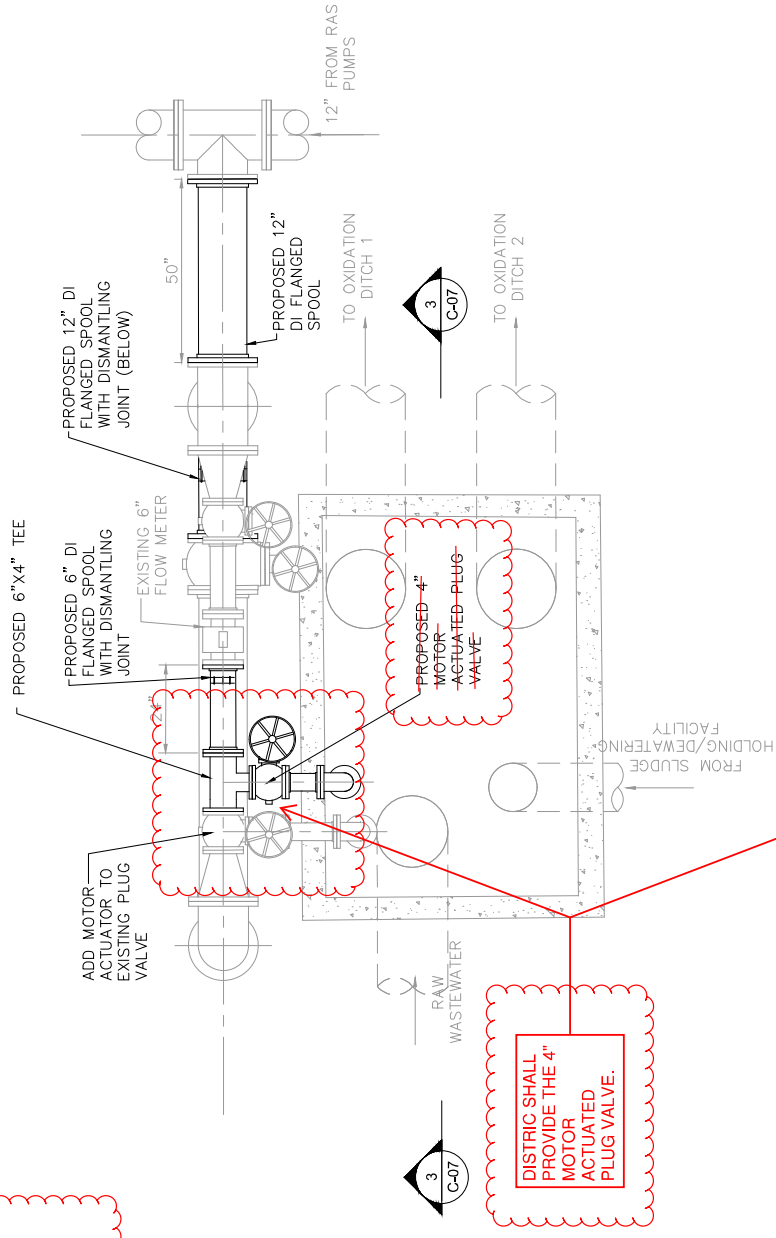
DISTRICT SHALL PROVIDE THE 4" MOTOR ACTUATED PLUG VALVE.

PROPOSED 4" MOTOR ACTUATED PLUG VALVE

PROPOSED STAIRS AND RAILING NOT SHOWN FOR CLARITY. SEE STRUCTURAL SHEETS.

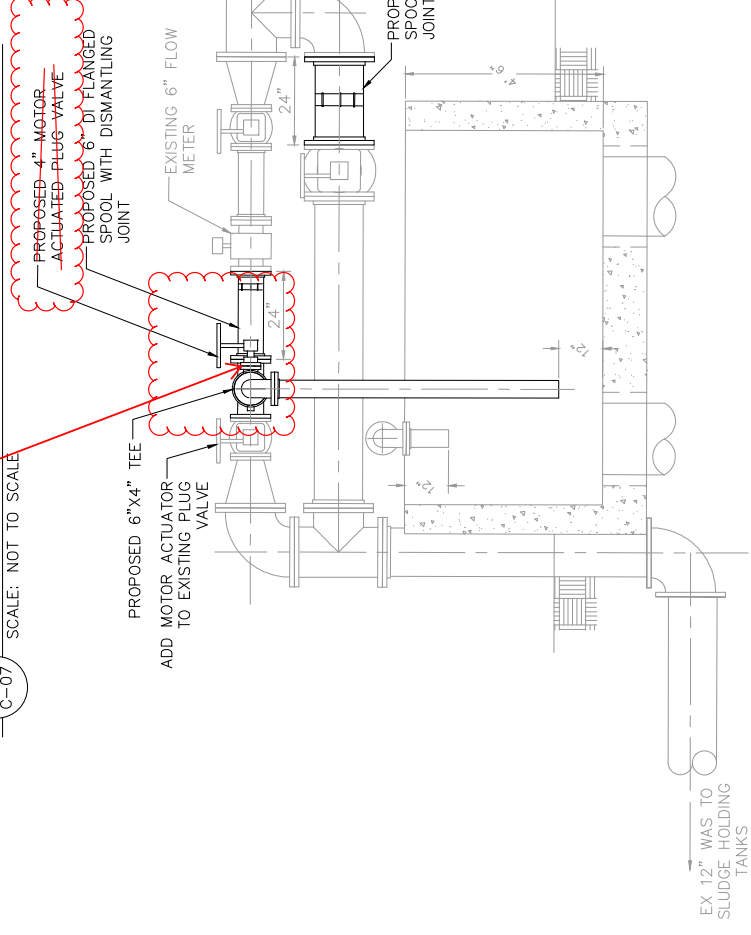
**RAS DIRECT CONNECT AT SPLITTER BOX
DETAIL**

1
C-07
SCALE: NOT TO SCALE



**RAS DIRECT CONNECT AT SPLITTER BOX
PLAN VIEW**

2
C-07
SCALE: NOT TO SCALE



**RAS DIRECT CONNECT AT SPLITTER BOX
SECTION VIEW**

3
C-07
SCALE: NOT TO SCALE

