CITY OF COLUSA

425 Webster Street
Colusa, Ca 95932

BID OPENS
August 26, 2025 at 2:00 PM

BID ADDENDUM #4

City of Colusa
Colusa New Water Production Well, Pilot Testing, Upgrades to Wells Nos 4, 5 & 6, Abandon Wells 2 & 3 & Walnut Ranch Wells 1 & 2

TO ALL BID DOCUMENT HOLDERS:

The following are clarifications and answers along with some additional information to current bidders.

1. Where is the location of the MCC and Panel CL at Well 9? Relocate ATS outside in an 3R enclosure. Locate MCC where minipower center is shown. Combine panel L and WR9 in the MCC. Combine panel CL and S9 and mount it where S9 is shown on the drawings. The motor starters to be included in the MCC.
2. Which motor feeders are to be tapped E2 Note 1? Note 1 on sheet E2 to be deleted
3. Which Elect. Service is it referring to next to splice box Note 1? 600 amp, freestanding NEMA 3R on a concrete pad.
4. Is pvc coated rigid and stainless steel equipment required in the chemical building and treatment control building? PVC conduit in chemical building, in treatment and control building-GRC
5. The chlorine and chemical feed bid items with a quantity of 1ea have been changed to Chemical Pump, Hypochlorite, Appurtenances with a quantity of 2ea. The electrical drawings show two sets of Polyphosphate and NaOCl skids, however only one shows electrical connections to pumps. Please advise on how many systems to install. Tank for Polyphosphate and bin for chlorine tablets, only 1 set, others are future. Bid Schedule updated
6. The updated addendum 3 bid table added two each chemical tanks to each well site. Please provide a specification for size, type, material, etc to bid to. Bid Schedule updated
7. Addendum 3 question 46 calls for the contractor to submit on the compressed air system. Is the contractor to design this system? The Contractor shall be responsible for the complete design and installation of the compressed air system to serve all pneumatic actuators and air-powered equipment required for treatment plant operation. The design shall include air compressors, filters, receivers, regulators, distribution piping, and all accessories. The Owner and Engineer have not performed this design. The Contractor shall submit the complete compressed air system as part of the overall treatment plant design package and shall coordinate all requirements with equipment suppliers and SCADA integration. The system shall be engineered to support reliable, automated operation of the plant

8. Addendum 3 questions 39 and 40 direct us to the SCADA drawings for Flow Control Valves and Pneumatic Control Valve sizes and locations. It is unclear where this information is located on the SCADA Drawings. As the bid items were derived from the 3 individual Loprest system, please indicate on sheets D3 and D4 which valves go to the pneumatic control valve bid item and which go to the Flow Control Valve Bid item as no valves are labeled as stated or called out as pneumatically operated. See response to 7 above, based on filter manufacturer, it may vary.
9. Given the recent outstanding questions, and number of critical questions still coming in from subcontractors and suppliers, please extend the bid date two weeks to allow for additional questions and answers so we may get sub/supplier coverage on the bid. We're unable to accommodate this request.
10. There are several conduits missing but most can be figured out by looking at the panel schedule. The only big one that stands out is on well #9, addendum #3 states new 235HP well pump but the one line shows 1.5" conduit with 3 - #3 conductors. Should be more like 3" conduit with 300 or 350s. Yes
11. How many flowmeters are there on this project and what are their sizes? Only one flow meter, additional system specific flow meters to be by filter manufacturer. Bid schedule updated.
12. Will we be removing programming from the contractor scope of work and adding to the engineering? The new PLC at well 9, to be programmed by contractor, other sites are to be reprogrammed for the filters by the contractors.
13. How many pressure transmitters and DP transmitters are required on this project? 1 DP transmitter per filter group, 1 filter group per site, based on manufacturer supply package it may vary.

Backwash Tank:

14. Is a coated carbon steel, welded (AWWA D100) tank the preferred tank type? Yes
15. What is the desired tank volume? Well 9: 60k Gallon, Well 5 &6: 40k Gallon

Filter Supplier:

16. After reviewing the specifications, I don't see any specifics on the pressure vessel design or the requirements. Can you please provide those? Plans show option for a single multi-cell tank or 3 individual pressure tanks. Place on reinforced concrete pad with seismic anchorage (per CBC). Ensure hoisting/lifting access for initial installation and future media replacement. Ensure clearance above for media loading and manway entry.

Well 9: Specifications	**Value**
Design Flow (per vessel)	600 gpm
Diameter	12 ft
Straight Side Shell Height	10–12 ft
Overall Height	~14–15 ft (includes dome & nozzles)
Surface Area	~113 ft²
Material	ASTM A36 or A516 Grade 70 carbon steel
Internal Lining	NSF 61-rated epoxy (e.g., 10–20 mils)
Exterior Coating	Epoxy primer + polyurethane or zinc
Design Pressure	100 psi minimum (ASME rated)
Access Ports	Top manway (20–24"), side cleanout
Connections	Flanged: influent, effluent, backwash, drain, air scour
Media Depth	~3 ft manganese greensand plus gravel underbed
Freeboard	~50% (to allow expansion during backwash)

Well 5 & 6 Specifications	Value
Design Flow per Unit	~333 gpm
Recommended Diameter	8.5 ft (conservative)
Straight Side Height	10–12 ft
Overall Height	~13–14 ft
Surface Area	~55–60 sf
Material	ASTM A36 or A516 Grade 70 carbon steel
Internal Lining	NSF 61 epoxy (10–20 mils thickness)
Exterior Coating	Zinc-rich primer + polyurethane topcoat
Design Pressure	100 psi minimum (ASME code stamped)
Connections	Flanged (inlet, outlet, backwash, drain, air scour)
Access	20–24" top manway + side port (min. 6")
Underdrain	Header-lateral or nozzle plate
Media	3 ft manganese greensand + 1 ft gravel
Freeboard	50% of vessel height

17. Please confirm that pipe sizes for the new filters will be as follows: Well #9/8-Inch, Well #5/12-Inch, and Well #6A/12-Inch, per plan sheet D3, Notes, #6? Well 9 and 6A: 12", Well 5: 8"

Painting:

18. Per spec page 273 of 593, II Construction Items, A. Filter Tank, 6. Finish painting of the tank exterior is to be shop applied by the tank fabricator in accordance with Owner's specifications. But under these same paragraphs, 8. Preparation, b) The tanks shall be finish coated upon arrival at the site. Main coating shall be shop applied at manufacturer facility and any blemishes as a result of construction shall be addressed in the field with like materials.
19. Will Prime Contractor need the filter tanks finish coated in the field, or will you have them finished in the shop? Please advise. See above
20. I cannot locate any spec information on the Generator Building, Well Head Building, or the Chem/Control Buildings…please advise if you will need any field painting at these structures? All wood structures will need to be painted.
21. Per spec sheets 291 of 593 and 292 of 593, l), m), n), o), and p)…do you anticipate any concrete floor coatings within any of the new buildings? Please advise. Yes, all new buildings shall receive epoxy coatings on the floors per the specifications.
22. Per spec sheet 292 of 593, q), 1, 2, and 3, do you anticipate needing to paint any existing piping on this project? Please advise. All piping shall be painted
23. I did not see any coatings needed in the Colusa Standard Specifications for the interior or exterior of the new SSMH's. No coatings in manholes, just grout at grade rings.

The undersigned has received and read this addendum. Bids submitted without a signed copy of this addendum may be considered non-responsive and may be rejected.

Contractor

Signature

Name (printed) Date

CONTRACTOR'S BID- UPDATED WITH ADDENDUM 4

Well No. 9

ITEM NO.	DESCRIPTION	QTY	UNIT	UNIT PRICE	BID COST
Earthwork and Site Preparation					
1	Clearing & Grubbing w/ 0.20' Clearing	0.3	AC		
2	Cut	484	CY		
3	Fill - Cost of Compaction (In Place)	242	CY		
4	Finish and cleanup	1	JOB		
Well Drilling and Pilot Study					
5	Drill 52-inch Borehole, furnish and install 40-inch OD x 3/8 inch wall ASTM A 139 Mild Steel Conductor Casing, Cement into Place	50	LF		
6	Drill 17.5 inch Pilot Bore Hole 50 ft to 800 feet	750	LF		
7	Provide Borehole Geophysical Surveys	800	LF		
8	Completing Well including test pumping, grouting, gravel well casing, screening and disinfecting.	800	LF		
9	Install Isolated Aquifer Zone Tool, Seals and Gravel Envelop, and Provide for Initial Development by Airlifting	4	EA		
10	Provide Temporary holding tanks, Temporary Conveyance piping, booster pumps and any other equipment necessary to provide for discharge routing to City SD.	1	LS		
11	Electrical Work – 3 110V Duplex Receptacles, VFD, Electrical Connection to PGE Power, Transformers and Panels, all electrical work to connect to SCADA and operate well site	1	EA		
12	Pump Isolated Aquifer Zones (est. 12 hrs per zone).	4	EA		
13	Connection of new well facilities to city water system 12" DI Pipe	4	EA		
14	Provide Isolated Aquifer Zone Test Laboratory Analysis		LS		
15	Ream Pilot Borehole to 34-inch 50 – 800 ft	750	LF		
16	Furnish and install 20-inch x 3/8" Wall ASTM A778 304L Stainless Steel Blank Casing +2 – 800 feet.	800	LF		

17	Furnish and install 20-inch x 5/16-inch Wall ASTM A778 304L Stainless Steel Ful-Flo louvered Well Screen with 0.060 inch slots 206' – 228' and 265' – 302' and 410' – 430' and 740-780.	119	LF		
18	Furnish and install two (2) 3-inch Sch. 40 304L Stainless Steel Gravel Feed Pipes +1 – 760'	760	LF		
19	Furnish and install 4-inch Sch. 40 304L Stainless Steel Camera Access Tube and 8-foot connection box +1-800 ft.	800	LF		
20	Furnish and install 2 inch SCH 40 Stainless Steel sounding Tube and 2 foot connection box. +1-800 ft.	800	LF		
21	Furnish and install Engineered Gravel Envelope and #60 Fine Transition Sand	1	LS		
22	Furnish and install 10.3 – sack Sand Cement Slurry Annular Seal	1	LS		
23	Provide initial development by Swabbing and Focused Intake Pumping	1	LS		
24	Provide, Install, and Remove Development Test Pump	1	LS		
25	Provide Final Development by Pumping and Surging	1	LS		
26	Conduct Aquifer Pumping Tests (8-hr step drawdown, 24 hr. constant rate drawdown, and 4-hr recovery tests)	1	LS		
27	Provide Downhole Video Survey	1	EA		
28	Provide Plumbness and Alignment Surveys	1	EA		
29	Provide Well Disinfection	1	EA		
30	Iron And Manganese Pilot Study	1	LS		
31	Chlorination/Oxidation Pilot Study	1	LS		

Treatment System

32	12" PVC-C900 Water Line	180	LF		
33	12" Water Valve	6	EA		
34	12" Check Valve	1	EA		
35	1" Air Release/Vacuum Valve	2	EA		
36	2" Flow Meter	1	EA		
37	250 kW Generator	1	EA		
38	Backwash Tank w/ Pump	1	EA		
39	10' Dia. X 39' Multicell Filter Unit (or 3 Filter Units)	1	EA		
40	16" Vertical Turbine Production Pump	1	EA		
41	16" Bowl Units	6	EA		
42	Pump Systems/Controls/SCADA	1	EA		
43	Filter Surface Wash Pump	3	EA		
44	Pneumatic Control Valves	6	EA		
45	Flow Control Valves	3	EA		

46	Chemical Pump, Tablet Feed System, Appurtenances	1	EA		
47	Chemical Control Panel	1	EA		
48	Chemical Tank	1	EA		
49	Chemical Building	1	EA		
50	Treatment Control Building	1	EA		
51	Well Head Building	1	EA		
52	Generator Building	1	EA		

Paving and Site Work

53	10" (AB) Base, Class 2	8,000	SF		
54	18" Reinforced PCC	670	SF		
55	Trench Repair	20	LF		
56	Chain Link Fence	280	LF		
57	Man Gate	1	EA		
58	Vehicle Gate	1	EA		
59	Storm Drain Inlet	1	EA		
60	12" HDPE Type S- Storm Drain	60	LF		
61	4" Backwash Line	135	LF		
62	8" SDR-35 Sanitary Sewer Main	935	LF		
63	48" Diameter Sewer Manhole	3	EA		

WELL NO. 9 TOTAL BID COST: $_____

Well No. 5

ITEM NO.	DESCRIPTION	QTY	UNIT	UNIT PRICE	BID COST
	Earthwork and Site Preparation				
1	Clearing & Grubbing w/ 0.20' Clearing	0.07	AC		
2	Cut	100	CY		
3	Tree Removal	6	EA		
	Pilot Study				
4	Iron And Manganese Pilot Study	1	LS		
5	Chlorination/Oxidation Pilot Study	1	LS		
	Treatment System				
6	8" PVC-C900 Water Line	150	LF		
7	8" Water Valve	3	EA		
8	8" Check Valve	1	EA		
9	1" Air Release/Vacuum Valve	2	EA		
10	2" Flow Meter	1	EA		
11	Backwash Tank w/ Pump	1	EA		
12	8' Dia. X 24' Multicell Filter Unit (or 3 Filter Units)	1	EA		
13	3 110V Duplex Receptacles, VFD, Electrical Connection to PGE Power, Transformers and Panels, all electrical work to connect to SCADA and operate well site	1	Job		
14	Filter Surface Wash Pump	3	EA		
15	Pneumatic Control Valves	6	EA		
16	Flow Control Valves	3	EA		
17	Chemical Pump, Tablet Feed System, Appurtenances	1	EA		
18	Chemical Control Panel	1	EA		
19	Chemical Tank	1	EA		
20	Chemical Building	1	EA		
21	Treatment Control Building	1	EA		
	Paving and Site Work				
22	10" (AB) Base, Class 2	3,200	SF		
23	18" Reinforced PCC	670	SF		
24	Chain Link Fence	240	LF		
25	Man Gate	2	EA		
26	4" Backwash Line	35	LF		

WELL NO. 5 TOTAL BID COST: $_____

Well No. 6A

ITEM NO.	DESCRIPTION	QTY	UNIT	UNIT PRICE	BID COST
	Earthwork and Site Preparation				
1	Clearing & Grubbing w/ 0.20' Clearing	0.20	AC		
2	Cut	202	CY		
3	Demolish Existing Well Head Building	1	LS		
4	Tree Removal	4	EA		
	Treatment System				
5	12" PVC-C900 Water Line	150	LF		
6	12" Water Valve	3	EA		
7	12" Check Valve	1	EA		
8	1" Air Release/Vacuum Valve	2	EA		
9	12" Blowoff Valve	1	EA		
10	12" Flow Meter	2	EA		
11	150 kW Generator	1	EA		
12	Backwash Tank w/ Pump	1	EA		
13	10' Dia. X 39' Multicell Filter Unit (or 3 Filter Units)	1	EA		
14	Pump Systems/Controls/SCADA	1	EA		
15	Filter Surface Wash Pump	3	EA		
16	Pneumatic Control Valves	6	EA		
17	Flow Control Valves	3	EA		
18	Relocation of Chemical Feed System, VFD and Electrical Panel	1	EA		
19	Chemical Control Panel	1	EA		
20	Chemical Tank	1	EA		
21	Chemical Building	1	EA		
22	Treatment Control Building	1	EA		
23	Well Head Building	1	EA		
24	Generator Building	1	EA		
25	3 110V Duplex Receptacles, Electrical Connection to PGE Power, Transformers and Panels, all electrical work to connect to SCADA and operate well site	1	Job		
	Paving and Site Work				
26	10" (AB) Base, Class 2	6,600	SF		
27	18" Reinforced PCC	670	SF		
28	Trench Repair	20	LF		
29	Chain Link Fence	330	LF		
30	Man Gate	1	EA		
31	Vehicle Gate	1	EA		
33	4" Backwash Line	140	LF		

WELL NO. 6A TOTAL BID COST: $_____

Well No. 4

ITEM NO.	DESCRIPTION	QTY	UNIT	UNIT PRICE	BID COST
Treatment System					
1	Add VFD Unit to Pumping plant and integrate into well operations systems	1	EA		

WELL NO. 4 TOTAL BID COST: _____

Abandonment of Wells

ITEM NO.	DESCRIPTION	QTY	UNIT	UNIT PRICE	BID COST
Treatment System					
1	Abandon City Wells No. 2 (440' deep), 3(440' deep) & 6 (440' deep) and Walnut Ranch Wells 1&2 (450' deep) pursuant to Colusa County Env. Health Dept Standards.	5	EA		

ABANDONMENT OF WELLS TOTAL BID COST: $_____

TOTAL CONTRACT BID:

WELLS: 9, 5, 6, 4 & ABANDONMENT OF WELLS TOTAL BID COST:

$_____