

Since 1918



PALMDALE WATER DISTRICT

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Attorneys

October 29, 2015

***Agenda for a Meeting
of the Facilities Committee of the Palmdale Water District
Committee Members: Joe Estes-Chair, Vincent Dino
to be held at the District's office at 2029 East Avenue Q, Palmdale
Thursday, November 5, 2015
10:00 a.m.***

NOTE: To comply with the Americans with Disabilities Act, to participate in any Board meeting please contact Dawn Deans at 661-947-4111 x1003 at least 48 hours prior to a Board meeting to inform us of your needs and to determine if accommodation is feasible.

Agenda item materials, as well as materials related to agenda items submitted after distribution of the agenda packets, are available for public review at the District's office located at 2029 East Avenue Q, Palmdale (Government Code Section 54957.5). Please call Dawn Deans at 661-947-4111 x1003 for public review of materials.

PUBLIC COMMENT GUIDELINES: The prescribed time limit per speaker is three-minutes. Please refrain from public displays or outbursts such as unsolicited applause, comments, or cheering. Any disruptive activities that substantially interfere with the ability of the District to carry out its meeting will not be permitted and offenders will be requested to leave the meeting. (PWD Rules and Regulations, Appendix DD, Sec. IV.A.)

Each item on the agenda shall be deemed to include any appropriate motion, resolution, or ordinance to take action on any item.

- 1) Roll call.
- 2) Adoption of agenda.
- 3) Public comments.
- 4) Action Items: (The public shall have an opportunity to comment on any action item as each item is considered by the Committee prior to action being taken.)



- 4.1) Consideration and possible action on approval of minutes of regular meeting held October 1, 2015.
- 4.2) Consideration and possible action on Change Order No. 1 to Work Order No. 15-608 being the emergency repair of the Well 18/19 Reservoir. (Project Manager Thompson)
- 4.3) Discussion of 2016 Budget projects, vehicles, and equipment. (General Manager LaMoreaux/Assistant General Manager Knudson)
- 5) Information Items.
 - 5.1) Status report on all 2015 budgeted projects including timelines, milestones, project manager, and if the project is on schedule. (Chair Estes)
 - 5.2) Update on purchase of budgeted tools, equipment, and vehicles. (Facilities Manager Moore)
 - 5.3) Other.
- 6) Board members' requests for future agenda items.
- 7) Adjournment.



MATTHEW R. KNUDSON,
Assistant General Manager

DDL/MRK/dd

PALMDALE WATER DISTRICT BOARD MEMORANDUM

DATE: October 6, 2015 November 5, 2015
TO: FACILITIES COMMITTEE Facilities Committee Meeting
FROM: Mr. Peter Thompson, Project Manager
VIA: Mr. James Riley, Engineering/Grant Manager
Mr. Matthew Knudson, Assistant General Manager
Mr. Dennis LaMoreaux, General Manager
RE: ***AGENDA ITEM NO. 4.2 - CONSIDERATION AND POSSIBLE ACTION ON
CHANGE ORDER NO. 1 TO WORK ORDER NO. 15-608 BEING THE
EMERGENCY REPAIR OF THE WELL 18/19 RESERVOIR***

Recommendation:

Staff recommends ratification of Change Order No. 1.

Financial Impact:

Original Construction Contract Price:	\$ 32,500.00
Proposed Change Order No. 1:	<u>\$ 22,500.00</u>
Total Construction Contract Price:	\$ 55,000.00

Note: costs paid by funds available within Maintenance and Repair of Water Lines Budget

Background:

Abrasive blasting operations of the tank floor revealed the damage to the floor was extensive enough to necessitate full replacement rather than the spot repairs recommended pursuant to the initial inspection. Change Order No. 1 will consist of additional work specified in the attached proposal from Superior Tank Solutions. The cost of the work is less than the cost of a new tank (+/- \$70,000.00) and is anticipated to extend the service life of the tank by 25 to 50 years.

All work was necessary to restore this essential tank to service and was not included within the original contract scope.

Supporting Documents:

- Change Order No. 1
- Proposal from Superior Tank Solutions

Strategic Plan Element

Strategic Goal 3.1 – Plan for Improvements of the existing water delivery infrastructure.

CHANGE ORDER

No. 1

PROJECT: Emergency Repair of the Well 18/19 Reservoir

DATE OF ISSUANCE October 5, 2015 EFFECTIVE DATE October 5, 2015

OWNER Palmdale Water District

OWNER's Contract No. W.O. No. 15-608

CONTRACTOR Superior Tank Solutions. ENGINEER P.W.D.

You are directed to make the following changes in the Contract Documents.

Description: Time and material required for additional work scope as follows: See attached

Reason for Change Order: Additional work was necessary and not included within the original project scope.

Attachments: W.O. No. 15-608 Extra Work Proposal from Superior Tank Solutions

CHANGE IN CONTRACT PRICE:	CHANGE IN CONTRACT TIMES:
Original Contract Price \$ <u>32,500.00</u>	Original Contract Times Completion: <u>N/A</u> Days
Net Changes from previous Change Orders No. <u>0</u> to No. <u>0</u> \$ <u>0.00</u>	Net Changes from previous Change Orders No. <u>0</u> to No. <u>0</u> <u>N/A</u> Days
Contract Price prior to this Change Order \$ <u>32,500.00</u>	Contract Times prior to this Change order Completion: <u>N/A</u> Days
Net Increase (decrease of this Change Order) \$ <u>22,500.00</u>	Net Increase (decrease of this Change Order) <u>N/A</u> Days
Contract Price with all approved Change Orders \$ <u>55,000.00</u>	Contract Times with all approved Change Orders Completion: <u>N/A</u>

RECOMMENDED:

By: _____
PWD, Project Manager

Date: _____

APPROVED:

By: _____
PWD, General Manager

Date: _____

ACCEPTED:

By: _____
Contractor (Authorized Signature)

Date: _____



PALMDALE WATER DISTRICT

Well 18/19 Tank Emergency Repair

Background:

In February, 2015, Superior Tank Solutions performed an inspection of the Well 18/19 Bolted Steel Tank and reported the findings to the District. The report identified that the tank was relatively intact with the exception of a couple of side wall corrosion issues and corrosion around the circumference of the tank at the floor/side wall interface. The side wall corrosion areas had been previously patched with plate steel that was seal welded into place. The circumferential joint between the side wall and the floor was aggressively corroding. The floor surfaces that were not adjacent to the side wall joint appeared to be intact with no evidence of corrosion on the top side of the floor plates.

At the time of this inspection, it was unknown that extremely thin (1/16") plate steel was used during the original installation of the welded steel floor. This condition, in association with the corrosion penetrations around the circumference of the tank, allowed water to pool under the tank and accelerate the corrosion process on the underside of the floor plate.

Immediately upon initiation of the abrasive blasting operation as part of the original tank renovation proposal, the floor began to disintegrate. Additional spot blasting was performed around the tank floor and the determination was made that the floor was not salvageable. On this basis, a new work scope was developed that included the complete replacement of the floor along with some additional considerations that are detailed in the following section.

Tank Rehabilitation Work Scope:

Prior to initiating the abrasive blasting and coating operation as previously proposed, the floor will be replaced with a 3/16" welded steel floor that will be installed in accordance with the AWWA D.100 recommendations. The floor replacement work scope will include the removal of the lowest 6" of the interior side wall bolt tracks followed by the installation of a 3/16" x 6" band of carbon steel surrounding the bottom interior circumference of the tank. Floor plates will then be inlaid over the existing floor with a barrier of rock/sand between the two surfaces. The floor plates will be seal welded in place and secured to the 6" circumferential band via seal welding. Voids at the roof to side wall transition areas will also be plated and seal welded in place. All areas of previous weld repairs on the side wall of the tank will be inspected and repaired as necessary. The end result will be a leak free and properly sealed tank.

The originally proposed work scope included the abrasive blasting and coating application operation using a 100% solids polyurethane coating system on the lower 8' of the side shell and the existing floor. The new work scope will include the abrasive blasting and coating application as originally proposed on all side shell and floor surfaces.

Final cleaning of the tank and tank site along with the disinfection of the tank will be in accordance with the original STS proposal.

Schedule:

The floor installation work scope is anticipated to span 4-5 work days. Following the completion of this work and the ancillary patch welding on the side shell, the blasting operation will be initiated and is expected to span 2 days. The coating application operation will be completed in one day. In the event that a significant concentration of epoxy patching is required prior to the application of the urethane coating system, a second day may be required to complete the coating application operation. The coating cure times should approximate 36 hours to 48 hours (depending on ambient temperatures). The clean-up and disinfection operation will be completed in one day.

Project Costs:

The previously proposed costs to provide all equipment, material, labor and supplies to satisfactorily perform the previously detailed work scope is \$32,500.00. The new all inclusive cost (including floor replacement) is \$55,000.

Note: this \$55,000 cost is derived from the original cost of \$32,500 for the base coating work plus an additional \$22,500 to install the floor and extend the interior coating operation to the top of the side shell. All minor ancillary costs for additional side shell patching are also included in this total cost.