

**CITY OF WATSONVILLE**  
**Public Works and Utilities Department**

**CONTRACT CHANGE ORDER No.**                          2      

**Contract No.** 2601

**Project Name:**            **Amesti Water Reservoir Interior Coating**

**City Project No.** WA-22-14826

**Contractor:**            **Top Line Engineers, Inc.**

**Description of Work:**

The condition of the interior roof rafter mounts at the tank perimeter were significantly more corroded than originally anticipated. Contractor and structural engineer devise a plan to weld the rafters to the tank roof to increase system strength, negating the need to replace the roof rafters. Though this resulted in a significant increase in the amount of welding and grinding, replacing the rafters would have cost significantly more (in the likely range of more than \$500,000) and significantly extended the schedule. Additional metal was also required to be welded to the bottom rafter web at the tank wall as corrosion had reduced the thickness below the minimum required for strength.

B-4 Additional weld grinding: 485 ft @ \$95/ft	\$46,075.00
B-5 Additional welding: 953 ft @ \$230/ft	\$219,190.00

The exterior shell bottom repair was originally anticipated to require minimal spot repairs. However, once the corrosion was removed, it was determined that through-wall deterioration exceeded the allowed 25% of wall thickness in most areas, requiring welding a steel band around the entire circumference of the tank. The contractor originally quoted \$1350 per foot for this repair, assuming a quantity of no more than 20 feet of repair would be needed. Due to the significantly increased quantity (220 additional feet), the contractor revised his unit cost to \$460 per foot. Additional exterior spot coating repair was also required.

B-1 Shell bottom repair: 220 ft @ \$460/ft	\$101,200.00
A-4 Exterior spot coating repair: 395 ft <sup>2</sup> @ \$52/ft <sup>2</sup>	\$20,540.00

The tank floor contained several more corroded areas requiring repair (6 additional plates required).

B-2 Tank bottom repair: 6 plates @ \$6200/plate	\$37,200.00
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The original contract included 5 units for repair of the shell, which are not required.

B-3 Shell plate repair: 0 plates at \$5700/plate credit	\$0.00
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Caulking was applied to seal the bottom of the tank exterior, preventing water ingress under the tank to reduce the chance of further corrosion to the tank bottom.

Caulking	\$4,850.00
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Asphalt repair was included in the original contract. However, there was additional repair required for work previously done by Watsonville, which was not included in the original contract.

Asphalt repair: 325 ft <sup>2</sup> @ \$14/ft <sup>2</sup>	\$4,550.00
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**Total Amount of Change Order:        \$433,605.00**

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By reason of this order the time of completion will be adjusted as follows: 30 Days

This change order constitutes full and complete compensation for all labor, equipment, materials, overhead, profit, any and all indirect costs and time adjustment required to perform the above described change. All work shall be completed in accordance with the applicable provisions of the Contract Documents.

**Accepted By Contractor:** DocuSigned by: Everardo H. Gutierrez 4/9/2024 | 1:08 PM PDT  
Top Line Engineers, Inc. Date

**City Approval:**

<u>Project Manager</u>	<u>Date</u>	<u>Director Public Works &amp; Utilities</u>	<u>Date</u>
<i>If Cumulative Change Order Percentage is Greater Than 15% the Following Signatures are also required:</i>			
<u>Director of Administrative Service</u>	<u>Date</u>	<u>City Manager</u>	<u>Date</u>

**Contract Summary:**

The Original Contract Sum:	\$700,500.00
Net Change by Previously Authorized Change Orders	\$136,471.75
The Contract Sum Prior to this Change Order:	\$836,971.75
<b>Amount of this Change Order:</b>	<b>\$433,605.00</b>
<b>The New Contract Sum Including this Change Order:</b>	<b>\$1,270,576.75</b>
<b>Cumulative Change Order Percentage Increase</b>	<b>81%</b>