ADDENDUM NO. 1

COUNTY OF KAUA‘I
DEPARTMENT OF WATER

PLANS, PROPOSAL, SPECIFICATIONS
CONTRACT AND BOND
FOR

JOB NO. 09-01, K-01, K-12
KALĀHEO WATER SYSTEM IMPROVEMENTS
PACKAGE A – 0.5 MG YAMADA RESERVOIR
PACKAGE B – 0.1 MG CLEARWELL RESERVOIR
PACKAGE C – WATER MAIN INSTALLATION
KALĀHEO, KAUA‘I, HAWAI‘I

NOTICE TO PROSPECTIVE PROPOSERS

This addendum is hereby made a part of the PLANS, PROPOSAL, SPECIFICATIONS, CONTRACT AND BOND for the subject project and it shall amend the said contract documents in the following respects:

Item 1

Receipt of Questions/Comments/Material Substitutions.

End of Addendum No. 1

If there are any questions, please contact Michael K. Hinazumi by email at mhinazumi@kauaiwater.org.

Joseph E. “Joe” Tait
Manager and Chief Engineer
April 11, 2022

ACKNOWLEDGEMENT OF RECEIPT OF ADDENDUM NO. 1

Receipt Acknowledged:

Organization

Received by

Date

Title

(Please sign and return this acknowledgement.)
**Item No. 1**

**QUESTION:** Is there a specification section for the booster pump system?

**ANSWER:** The specification section for the booster pump system can be found in Section SP-15 - Hydropneumatic Booster Pump Package in Appendix O: Special Provisions.

**QUESTION:** The Invitation For Bids states that bids will be received in the Admin Office of Department of Water and it also states to submit the offer through Public Purchase. Please clarify which one.

**ANSWER:** Please submit bids via [www.publicpurchase.com](http://www.publicpurchase.com).

**QUESTION:** Is there an engineering estimate for this project?

**ANSWER:** See attached.
**RECAPITULATION**

**OPINION OF PROBABLE COST**

**JOB NO. K-01, K-12**

**KALĀHEO WATER SYSTEM IMPROVEMENTS**

**PACKAGE A,B, C**

**KALĀHEO WATER SYSTEM**

**KALĀHEO, KAUA‘I, HAWAI‘I**

**RECAPITULATION**

<table>
<thead>
<tr>
<th>Package</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Package A</td>
<td>$7,024,643.00</td>
</tr>
<tr>
<td>Package B</td>
<td>$6,112,163.00</td>
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<tr>
<td>Package C</td>
<td>$8,124,625.00</td>
</tr>
<tr>
<td>Grand Total</td>
<td>$21,261,431.00</td>
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**SAY** $21,300,000.00
<table>
<thead>
<tr>
<th>Item No.</th>
<th>Estimated Quantity</th>
<th>Units</th>
<th>Description</th>
<th>Unit Price</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>LS</td>
<td>Mobilization &amp; Demobilization (Not to exceed 6% of the sum of all items excluding proposal price of this item)</td>
<td>$295,849</td>
<td>$295,849</td>
</tr>
<tr>
<td>2</td>
<td>14,000</td>
<td>CY</td>
<td>Site excavation, including clearing and grubbing, demolition, and hauling and disposal of excess material.</td>
<td>$80</td>
<td>$1,120,000</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Clearing and grubbing.</td>
<td>$282,000</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Demolition, including removal and disposal of existing structures and A.C. pavement</td>
<td>$20,000</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>350</td>
<td>LF</td>
<td>4-foot high chain-link fence, including DWS 2500 concrete footing and all appurtenances, in place complete.</td>
<td>$45</td>
<td>$15,750</td>
</tr>
<tr>
<td>4</td>
<td>730</td>
<td>LF</td>
<td>6-foot high chain-link fence topped with extension arm and three strands of barbed wire, including DWS 2500 concrete footing and all appurtenances, in place complete.</td>
<td>$60</td>
<td>$43,800</td>
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<tr>
<td>5</td>
<td>1</td>
<td>EA</td>
<td>20-foot wide double-swing 6-foot high chain-link gate topped with extension arm and three strands of barbed wire, including DWS 2500 concrete footing, sign, and all appurtenances, in place complete.</td>
<td>$5,500</td>
<td>$5,500</td>
</tr>
<tr>
<td>6</td>
<td>1,000</td>
<td>SY</td>
<td>2&quot; thick A.C. Pavement, Hot Mix Slate Design Mix V, for pavement restoration, driveway pavement, and site pavement, including base and subbase courses, in place complete.</td>
<td>$235</td>
<td>$235,000</td>
</tr>
<tr>
<td>7</td>
<td>200</td>
<td>CY</td>
<td>Aggregate base course for unpaved areas, in place complete.</td>
<td>$260</td>
<td>$52,000</td>
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<tr>
<td>8</td>
<td>381</td>
<td>LF</td>
<td>Reinforced Concrete Retaining Wall-A, in place complete.</td>
<td>$2,100</td>
<td>$800,100</td>
</tr>
<tr>
<td>9</td>
<td>243</td>
<td>LF</td>
<td>Reinforced Concrete Retaining Wall-B, in place complete.</td>
<td>$640</td>
<td>$155,520</td>
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<tr>
<td>10</td>
<td>300</td>
<td>LF</td>
<td>Concrete gutter, in place complete.</td>
<td>$80</td>
<td>$24,000</td>
</tr>
<tr>
<td>11</td>
<td>30</td>
<td>LF</td>
<td>12&quot; Ductile Iron Pipe Waterline; Cl. 53, including unclassified trench excavation, backfill, and all appurtenances, in place complete.</td>
<td>$280</td>
<td>$8,400</td>
</tr>
<tr>
<td>Item No.</td>
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</tr>
<tr>
<td>12</td>
<td>230</td>
<td>LF</td>
<td>12&quot; Ductile Iron Pipe Waterline; Cl. 52, including unclassified trench excavation, backfill, and all appurtenances, in place complete.</td>
<td>$275</td>
<td>$63,250</td>
</tr>
<tr>
<td>13</td>
<td>120</td>
<td>LF</td>
<td>8&quot; Ductile Iron Pipe Waterline; Cl. 52, including unclassified trench excavation, backfill, and all appurtenances, in place complete.</td>
<td>$230</td>
<td>$27,600</td>
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<tr>
<td>14</td>
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<td>LS</td>
<td>Ductile Iron Fittings (ANSI A-21.10 &amp; AWWA C110), including unclassified trench excavation and backfill, in place complete.</td>
<td>$50,000</td>
<td>$50,000</td>
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<tr>
<td>15</td>
<td>6</td>
<td>EA</td>
<td>12&quot; Gate Valve MJxMJ with C.I. Valve Box and Cover, including unclassified trench excavation, backfill, and all appurtenances, in place complete.</td>
<td>$6,000</td>
<td>$36,000</td>
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<tr>
<td>16</td>
<td>3</td>
<td>EA</td>
<td>8&quot; Gate Valve MJxMJ with C.I. Valve Box and Cover, including unclassified trench excavation, backfill, and all appurtenances, in place complete.</td>
<td>$4,100</td>
<td>$12,300</td>
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<tr>
<td>17</td>
<td>7</td>
<td>EA</td>
<td>2-1/2&quot; Brass Cleanout and Riser, including unclassified trench excavation, backfill, and all appurtenances, in place complete.</td>
<td>$4,000</td>
<td>$28,000</td>
</tr>
<tr>
<td>18</td>
<td>2</td>
<td>EA</td>
<td>12&quot; Check Valve Assembly, including check valve, vault, vault cover, unclassified trench excavation, backfill, and all appurtenances, in place complete.</td>
<td>$10,000</td>
<td>$20,000</td>
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<tr>
<td>19</td>
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<td>EA</td>
<td>4&quot; Altitude Valve, including valve, vault, vault cover, unclassified trench excavation, backfill, and all appurtenances, in place complete.</td>
<td>$15,000</td>
<td>$15,000</td>
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<tr>
<td>20</td>
<td>1</td>
<td>EA</td>
<td>Special drain inlet for grass area 11.00' to 11.99' deep, including unclassified trench excavation and backfill, in place complete.</td>
<td>$15,000</td>
<td>$15,000</td>
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<tr>
<td>21</td>
<td>1</td>
<td>EA</td>
<td>County DPW shallow drain manhole detail D-18 for pavement areas with grated cover, 8.00' to 8.99' deep, including unclassified trench excavation and backfill, in place complete.</td>
<td>$10,000</td>
<td>$10,000</td>
</tr>
<tr>
<td>Item No.</td>
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<td>Description</td>
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<tr>
<td>22</td>
<td>2</td>
<td>EA</td>
<td>County DPW standard drain manhole detail D-22 for pavement areas with grated cover, 8.00' to 8.99' deep, in place complete.</td>
<td>$10,000</td>
<td>$20,000</td>
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<tr>
<td>23</td>
<td>1</td>
<td>EA</td>
<td>State standard drain manhole, Type A, for pavement areas, with grated cover, 19.00'-19.99', including unclassified trench excavation and backfill, in place complete.</td>
<td>$30,000</td>
<td>$30,000</td>
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<tr>
<td>24</td>
<td>270</td>
<td>LF</td>
<td>18&quot; Reinforced Concrete Pipe Drainline, Class III, including unclassified trench excavation, backfill, and all appurtenances, in place complete.</td>
<td>$320</td>
<td>$86,400</td>
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<tr>
<td>25</td>
<td>75</td>
<td>LF</td>
<td>18&quot; Corrugated High Density Polyethylene Drainline, including unclassified trench excavation, backfill, and all appurtenances, in place complete.</td>
<td>$260</td>
<td>$19,500</td>
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<tr>
<td>26</td>
<td>35</td>
<td>LF</td>
<td>12&quot; Ductile Iron Pipe Drainline, Cl. 53, including unclassified trench excavation, backfill, and all appurtenances, in place complete.</td>
<td>$280</td>
<td>$9,800</td>
</tr>
<tr>
<td>27</td>
<td>250</td>
<td>LF</td>
<td>6&quot; corrugated, perforated HDPE drain line, including unclassified trench excavation, backfill, and all appurtenances, in place complete.</td>
<td>$60</td>
<td>$15,000</td>
</tr>
<tr>
<td>28</td>
<td>15</td>
<td>LF</td>
<td>6&quot; corrugated HDPE drain line, including unclassified trench excavation, backfill, and all appurtenances, in place complete.</td>
<td>$60</td>
<td>$900</td>
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<tr>
<td>29</td>
<td>1</td>
<td>EA</td>
<td>CRM outlet headwall, inclusive of 4-foot high chain-link fence and concrete rubble pavement, in place complete.</td>
<td>$30,000</td>
<td>$30,000</td>
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<tr>
<td>30</td>
<td>1</td>
<td>EA</td>
<td>0.5 Million Gallon reinforced concrete reservoir tank, including all appurtenances, in place complete.</td>
<td>$1,850,000</td>
<td>$1,850,000</td>
</tr>
<tr>
<td>31</td>
<td>1</td>
<td>LS</td>
<td>Chlorination and flushing of water system, including removal of temporary risers and incidental work, all in accordance with the specifications.</td>
<td>$32,000</td>
<td>$32,000</td>
</tr>
<tr>
<td>Item No.</td>
<td>Quantity</td>
<td>Units</td>
<td>Description</td>
<td>Unit Price</td>
<td>Total</td>
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<tr>
<td>32</td>
<td>1</td>
<td>LS</td>
<td>Furnish and install electrical equipment, and wiring, including but not limited to providing trenching and backfill, pullboxes power, control and instrumentation ducts, cables, junction boxes, connections to power control and instrumentation devices, painting testing, and all appurtenant electrical work in place complete and in accordance with the plans and specifications.</td>
<td>$ 50,000</td>
<td>$ 50,000</td>
</tr>
<tr>
<td>33</td>
<td>1</td>
<td>LS</td>
<td>SCADA system, including but not limited to software programming of existing RTU; modifications to existing master SCADA; and all appurtenant SCADA work; in place complete, and accordance with the plans and specifications, ready for operation.</td>
<td>$ 50,000</td>
<td>$ 50,000</td>
</tr>
<tr>
<td>Subtotal</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>$ 5,226,669</td>
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<tr>
<td>Contingency @ 20%</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>$ 1,045,334</td>
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<tr>
<td>Subtotal</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>$ 6,272,003</td>
</tr>
<tr>
<td>Escalation @12% (to 2023)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>$ 752,640</td>
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<tr>
<td>TOTAL</td>
<td></td>
<td></td>
<td></td>
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<td>$ 7,024,643</td>
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</table>
**Opinion of Probable Construction Cost**

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Estimated Quantity</th>
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</thead>
<tbody>
<tr>
<td>34</td>
<td>1</td>
<td>LS</td>
<td>Mobilization and Demobilization. (Not to exceed 6% of the sum of all items excluding proposal price of this item)</td>
<td>$ 260,000</td>
<td>$ 260,000</td>
</tr>
<tr>
<td>35</td>
<td>2,254</td>
<td>CY</td>
<td>Site excavation, including hauling and disposal of excess material</td>
<td>$ 310.00</td>
<td>$ 698,740</td>
</tr>
<tr>
<td>36</td>
<td>315</td>
<td>LF</td>
<td>6-foot high chain-link fence topped with extension arm and three strands of barbed wire, including DWS 2500 concrete footing, all appurtenances, in place complete.</td>
<td>$ 60</td>
<td>$ 18,900</td>
</tr>
<tr>
<td>37</td>
<td>1</td>
<td>EA</td>
<td>16-foot wide double-swing 6-foot high chain-link gate topped with extension arm and three strands of barbed wire, including DWS 2500 concrete footing, sign, and all appurtenances, in place complete.</td>
<td>$ 5,000</td>
<td>$ 5,000</td>
</tr>
<tr>
<td>38</td>
<td>1,385</td>
<td>SY</td>
<td>6&quot; Thick Concrete Pavement for pavement restoration, driveway pavement, and site pavement in place complete.</td>
<td>$ 240</td>
<td>$ 332,400</td>
</tr>
<tr>
<td>39</td>
<td>760</td>
<td>SY</td>
<td>2&quot; Thick AC Pavement Hot Mix State Design Mix IV for site pavement in place complete.</td>
<td>$ 130</td>
<td>$ 98,800</td>
</tr>
<tr>
<td>40</td>
<td>360</td>
<td>CY</td>
<td>Aggregate base course for Access Road and Paved Area, in place complete</td>
<td>$ 500</td>
<td>$ 180,000</td>
</tr>
<tr>
<td>41</td>
<td>29,700</td>
<td>SF</td>
<td>Cellular confinement construction access, for a complete job.</td>
<td>$ 32.00</td>
<td>$ 950,400</td>
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<tr>
<td>42</td>
<td>1</td>
<td>EA</td>
<td>Reinforced Concrete Retaining Wall, in place complete</td>
<td>$ 350</td>
<td>$ 350</td>
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<tr>
<td>43</td>
<td>135</td>
<td>LF</td>
<td>Concrete swale, in place complete.</td>
<td>$ 54</td>
<td>$ 7,290</td>
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<tr>
<td>44</td>
<td>960</td>
<td>LF</td>
<td>Concrete curb and gutter, in place complete.</td>
<td>$ 75</td>
<td>$ 72,000</td>
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<tr>
<td>45</td>
<td>50</td>
<td>LF</td>
<td>Concrete header, in place complete.</td>
<td>$ 55</td>
<td>$ 2,750</td>
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<tr>
<td>46</td>
<td>3</td>
<td>EA</td>
<td>Gutter diversion, in place complete.</td>
<td>$ 3,800</td>
<td>$ 11,400</td>
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<tr>
<td>47</td>
<td>2</td>
<td>EA</td>
<td>GRP transition, in place complete.</td>
<td>$ 1,600</td>
<td>$ 3,200</td>
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<tr>
<td>48</td>
<td>1,275</td>
<td>LF</td>
<td>8&quot; Ductile Iron Pipe Waterline; Cl. 52, including undeclassified trench excavation, backfill, and all appurtenances, in place</td>
<td>$ 230</td>
<td>$ 293,250</td>
</tr>
<tr>
<td>49</td>
<td>40</td>
<td>LF</td>
<td>8&quot; Ductile Iron Pipe Waterline; Cl. 53, including undeclassified trench excavation, backfill, and all appurtenances, in place</td>
<td>$ 240</td>
<td>$ 9,600</td>
</tr>
<tr>
<td>50</td>
<td>225</td>
<td>LF</td>
<td>1-1/2&quot; Copper Pipe Waterline; Type K, including undeclassified trench excavation and backfill, fittings, and all appurtenances, in place complete.</td>
<td>$ 75</td>
<td>$ 16,875</td>
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<tr>
<td>Item No.</td>
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</tr>
<tr>
<td>51</td>
<td>1</td>
<td>LS</td>
<td>Ductile Iron Fittings (ANSI A-21.10 &amp; AWWA C110), included unclassified trench excavation and backfill, in place complete.</td>
<td>$40,000</td>
<td>$40,000</td>
</tr>
<tr>
<td>52</td>
<td>8</td>
<td>EA</td>
<td>8&quot; Gate valve MJ x MJ with C.I. valve box and cover, including unclassified trench excavation, backfill, and all appurtenances, in place complete.</td>
<td>$4,100</td>
<td>$32,800</td>
</tr>
<tr>
<td>53</td>
<td>1</td>
<td>EA</td>
<td>1&quot; Air/Vacuum Relief Valve, including all appurtenances, in place complete.</td>
<td>$4,500</td>
<td>$4,500</td>
</tr>
<tr>
<td>54</td>
<td>1</td>
<td>LS</td>
<td>Connection for New 8&quot; D.I. Water line to existing 8&quot; Asbestos Concrete Water line, including unclassified excavation, transition coupling, and appurtenances, in place complete.</td>
<td>$20,000</td>
<td>$20,000</td>
</tr>
<tr>
<td>55</td>
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<td>EA</td>
<td>County DPW standard drain inlet, Type G-2, for pavement area, 4.00' to 4.99', including unclassified trench excavation and backfill, in place complete.</td>
<td>$10,700</td>
<td>$10,700</td>
</tr>
<tr>
<td>56</td>
<td>1</td>
<td>EA</td>
<td>County DPW standard drain inlet, Type G-2, for pavement area, 5.00' to 5.99', including unclassified trench excavation and backfill, in place complete.</td>
<td>$10,700</td>
<td>$10,700</td>
</tr>
<tr>
<td>57</td>
<td>130</td>
<td>LF</td>
<td>6&quot; corrugated, perforated HDPE drain line, including unclassified trench excavation, backfill, and all appurtenances, in place complete.</td>
<td>$60</td>
<td>$7,800</td>
</tr>
<tr>
<td>58</td>
<td>25</td>
<td>LF</td>
<td>6&quot; corrugated HDPE drain line, including unclassified trench excavation, backfill, and all appurtenances, in place complete.</td>
<td>$60</td>
<td>$1,500</td>
</tr>
<tr>
<td>59</td>
<td>25</td>
<td>LF</td>
<td>12&quot; Ductile Iron Drainline, including unclassified trench excavation, backfill, and all appurtenances, in place complete.</td>
<td>$280</td>
<td>$7,000</td>
</tr>
<tr>
<td>60</td>
<td>90</td>
<td>LF</td>
<td>12&quot; PVC Drainline, including unclassified trench excavation, backfill, and all appurtenances, in place complete.</td>
<td>$230</td>
<td>$20,700</td>
</tr>
<tr>
<td>61</td>
<td>1</td>
<td>EA</td>
<td>CRM headwall, inclusive of 4-foot high chain-link fence, in place complete.</td>
<td>$30,000</td>
<td>$30,000</td>
</tr>
<tr>
<td>62</td>
<td>13</td>
<td>LF</td>
<td>4-feet high chain link fence on top of headwall, including all appurtenances, in place complete.</td>
<td>$45</td>
<td>$585</td>
</tr>
<tr>
<td>63</td>
<td>1</td>
<td>LS</td>
<td>0.1 Million Gallon reinforced concrete reservoir tank, including all appurtenances, in place complete.</td>
<td>$905,000</td>
<td>$905,000</td>
</tr>
</tbody>
</table>
### Opinion of Probable Construction Cost

<table>
<thead>
<tr>
<th>Item No.</th>
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<tr>
<td>64</td>
<td>1</td>
<td>LS</td>
<td>Chlorination and flushing of water system, including removal of temporary risers and incidental work, all in accordance with the specifications.</td>
<td>$ 32,000</td>
<td>$ 32,000</td>
</tr>
<tr>
<td>65</td>
<td>1</td>
<td>LS</td>
<td>Furnish and install electrical equipment, and wiring, including but not limited to trenching and backfill, pullboxes, power, control and instrumentation ducts, cables, junction boxes, connections to power, control and instrumentation devices, painting, testing, and all appurtenant electrical work in place complete and in accordance with the plans and specifications.</td>
<td>$ 85,000</td>
<td>$ 85,000</td>
</tr>
<tr>
<td>66</td>
<td>1</td>
<td>LS</td>
<td>Furnish and install telephone equipment, and wiring, including but not limited to trenching and backfill, pullboxes, testing, and all appurtenant electrical work in place complete and in accordance with the plans and specifications.</td>
<td>$ 54,000</td>
<td>$ 54,000</td>
</tr>
<tr>
<td>67</td>
<td>FA</td>
<td></td>
<td>Hawaiian Telcom (HTEL) cost sharing</td>
<td>$</td>
<td>$ 21,500</td>
</tr>
<tr>
<td>68</td>
<td>1</td>
<td>LS</td>
<td>SCADA system, including but not limited to software programming of existing RTU; modifications to existing master SCADA; and all appurtenant SCADA work; in place complete, and accordance with the plans and specifications, ready for operation.</td>
<td>$ 161,000</td>
<td>$ 161,000</td>
</tr>
<tr>
<td>69</td>
<td>1</td>
<td>LS</td>
<td>Control Building, in place complete.</td>
<td>$ 110,000</td>
<td>$ 110,000</td>
</tr>
<tr>
<td>70</td>
<td>1</td>
<td>LS</td>
<td>Hydroneumatic booster pump, in place complete.</td>
<td>$ 32,000</td>
<td>$ 32,000</td>
</tr>
</tbody>
</table>

Subtotal: $4,547,740

Contingency @ 20%: $909,548

Subtotal: $5,457,288

Escalation @12% (to 2023): $654,875

TOTAL: $6,112,163
<table>
<thead>
<tr>
<th>Item No</th>
<th>Estimated Quantity</th>
<th>Description</th>
<th>Unit Price</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>71</td>
<td>1 LS</td>
<td>Mobilization &amp; Demobilization (not to exceed 6% of the sum of all items excluding proposal price of this item)</td>
<td>$30.00</td>
<td>$300,000.00</td>
</tr>
<tr>
<td>72</td>
<td>1 LS</td>
<td>Clearing and Grubbing</td>
<td>$225.00</td>
<td>$7,630.00</td>
</tr>
<tr>
<td>73</td>
<td>10000 SY</td>
<td>Cold Planing Existing A.C. Pavement</td>
<td>$275.00</td>
<td>$632,500.00</td>
</tr>
<tr>
<td>74</td>
<td>35 SY</td>
<td>4&quot; Thick Concrete Pavement for trench pavement restoration and driveway pavement, including base and subbase courses, in place complete.</td>
<td>$250.00</td>
<td>$207,500.00</td>
</tr>
<tr>
<td>75</td>
<td>2300 SY</td>
<td>2&quot; Thick A.C. Pavement Hot Mix State Design Mix V for trench pavement restoration and driveway pavement, including base and subbase courses, in place complete.</td>
<td>$85.00</td>
<td>$850,000.00</td>
</tr>
<tr>
<td>76</td>
<td>10000 SY</td>
<td>2&quot; Thick A.C. Pavement Hot Mix State Design Mix V for pavement resurfacing, in place complete.</td>
<td>$230.00</td>
<td>$1,655,310.00</td>
</tr>
<tr>
<td>77</td>
<td>830 LF</td>
<td>12&quot; Ductile Iron Pipe Waterline; Cl. 52, including unclassified trench excavation, backfill, and all appurtenances, in place complete.</td>
<td>$250.00</td>
<td>$207,500.00</td>
</tr>
<tr>
<td>78</td>
<td>7197 LF</td>
<td>8&quot; Ductile Iron Pipe Waterline; Cl. 52, including unclassified trench excavation, backfill, and all appurtenances, in place complete.</td>
<td>$230.00</td>
<td>$1,655,310.00</td>
</tr>
<tr>
<td>Item No</td>
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</tr>
<tr>
<td>---------</td>
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<td>----------------------------------------------------------------------------------------------------------------------------------------------</td>
<td>------------</td>
<td>---------</td>
</tr>
<tr>
<td>79</td>
<td>3500 LF</td>
<td>6&quot; Ductile Iron Pipe Waterline; Cl. 52, including unclassified trench excavation, backfill, and all appurtenances, in place complete.</td>
<td>$210.00</td>
<td>$735,000.00</td>
</tr>
<tr>
<td>80</td>
<td>34 LF</td>
<td>3&quot; Ductile Iron Pipe Waterline; Cl. 52, including unclassified trench excavation, backfill, and all appurtenances, in place complete.</td>
<td>$180.00</td>
<td>$8,568.00</td>
</tr>
<tr>
<td>81</td>
<td>1 LS</td>
<td>Ductile Iron Fittings (ANSI A-21.10 &amp; AWWA C110), in place complete.</td>
<td></td>
<td>$140,000.00</td>
</tr>
<tr>
<td>82</td>
<td>5 Ea.</td>
<td>12&quot; Gate Valve MJxMJ with C.I. Valve Box and Cover, including all appurtenances, in place complete.</td>
<td>$6,000.00</td>
<td>$30,000.00</td>
</tr>
<tr>
<td>83</td>
<td>5 Ea.</td>
<td>8&quot; Gate Valve MJxMJ with C.I. Valve Box and Cover, including all appurtenances, in place complete.</td>
<td>$4,100.00</td>
<td>$20,500.00</td>
</tr>
<tr>
<td>84</td>
<td>5 Ea.</td>
<td>6&quot; Gate Valve MJxMJ with C.I. Valve Box and Cover, including all appurtenances, in place complete.</td>
<td>$3,000.00</td>
<td>$15,000.00</td>
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<tr>
<td>85</td>
<td>9 Ea.</td>
<td>6&quot; Gate Valve MJxFE with C.I. Valve Box and Cover, including all appurtenances, in place complete.</td>
<td>$3,000.00</td>
<td>$27,000.00</td>
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<tr>
<td>86</td>
<td>1</td>
<td>3&quot; Gate Valve MJxMJ with C.I. Valve Box and Cover, including all appurtenances, in place complete.</td>
<td>$3,000.00</td>
<td>$3,000.00</td>
</tr>
<tr>
<td>87</td>
<td>15 Ea.</td>
<td>1&quot; Air/Vacuum Relief Valve, including all appurtenances, in place complete.</td>
<td>$4,500.00</td>
<td>$67,500.00</td>
</tr>
<tr>
<td>Item No</td>
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<td>Description</td>
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<td></td>
<td></td>
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<tr>
<td>88</td>
<td>17</td>
<td>Single Service Lateral and assembly, including all appurtenances, in place complete.</td>
<td>$ 4,400.00</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td><strong>$ 74,800.00</strong></td>
<td></td>
</tr>
<tr>
<td>89</td>
<td>8</td>
<td>Double Service Lateral and assembly, including all appurtenances, in place complete.</td>
<td>$ 6,500.00</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td><strong>$ 52,000.00</strong></td>
<td></td>
</tr>
<tr>
<td>90</td>
<td>7</td>
<td>Fire Hydrant, including all appurtenances, in place complete.</td>
<td>$ 6,000.00</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td><strong>$ 42,000.00</strong></td>
<td></td>
</tr>
<tr>
<td>91</td>
<td>4</td>
<td>2-1/2&quot; Brass Cleanout and Riser, including all appurtenances, in place complete.</td>
<td>$ 4,000.00</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td><strong>$ 16,000.00</strong></td>
<td></td>
</tr>
<tr>
<td>92</td>
<td>1</td>
<td>Connection of New 3&quot; Ductile Iron Waterline to Existing 3&quot; PVC Waterline at WL C Sta. 56+71.0 ± o/s 2.1' ± RT, including all appurtenances, in place complete.</td>
<td>$ 12,500.00</td>
<td></td>
</tr>
<tr>
<td>93</td>
<td>1</td>
<td>Connection of New 6&quot; Ductile Iron Waterline B to Existing 6&quot; Asbestos-Cement Waterline at WL B Sta. 11+61.3±, including all appurtenances, in place complete.</td>
<td>$ 25,000.00</td>
<td></td>
</tr>
<tr>
<td>94</td>
<td>1</td>
<td>Connection of New 12&quot; Ductile Iron Waterline C to New 12&quot; Ductile Iron Waterline at WL C Sta. (,) 0+3.7± , including all appurtenances, in place complete.</td>
<td>$ 20,000.00</td>
<td></td>
</tr>
</tbody>
</table>
## OPINION OF PROBABLE COST

**JOB NO. K-01, K-12 – PHASE II**  
**KALĀHEO WATER SYSTEM IMPROVEMENTS**  
**PACKAGE C – WATER MAIN INSTALLATION**  
**KALĀHEO WATER SYSTEM**  
**KALĀHEO, KAUAʻI, HAWAIʻI**

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>95</td>
<td>1</td>
<td>Connection of New 12&quot; Ductile Iron Waterline C to Existing 6&quot; Cast Iron Waterline at WL C Sta. 19+92.39 o/s 13.4' ± LT, including all appurtenances, in place complete.</td>
<td>$</td>
<td>20,000.00</td>
</tr>
<tr>
<td>96</td>
<td>1</td>
<td>Connection of New 6&quot; Ductile Iron Waterline D to Existing 6&quot; Cast Iron Waterline at WL D Sta. 0+00, including all appurtenances, in place complete.</td>
<td>$</td>
<td>15,000.00</td>
</tr>
<tr>
<td>97</td>
<td>1</td>
<td>Connection of New 6&quot; Ductile Iron Waterline D to Existing 6&quot; Ductile Iron Waterline at WL D Sta. 33+43.3±, including all appurtenances, in place complete.</td>
<td>$</td>
<td>15,000.00</td>
</tr>
<tr>
<td>98</td>
<td>1</td>
<td>Connection of New 12&quot; Ductile Iron Waterline E to New 12&quot; Ductile Iron Waterline at WL E Sta. 0+00 , including all appurtenances, in place complete.</td>
<td>$</td>
<td>20,000.00</td>
</tr>
<tr>
<td>99</td>
<td>1</td>
<td>Connection of New 8&quot; Ductile Iron Waterline F to New 8&quot; Ductile Iron Waterline at WL F Sta. 0+00 , including all appurtenances, in place complete.</td>
<td>$</td>
<td>20,000.00</td>
</tr>
<tr>
<td>100</td>
<td>1</td>
<td>Connection of New 8&quot; Ductile Iron Waterline F to Existing 8&quot; Asbestos-Cement Waterline at WL F Sta.0+16.3±, including all appurtenances, in place complete.</td>
<td>$</td>
<td>25,000.00</td>
</tr>
</tbody>
</table>
## OPINION OF PROBABLE COST

### JOB NO. K-01, K-12 – PHASE II

**KALĀHEO WATER SYSTEM IMPROVEMENTS**

**PACKAGE C – WATER MAIN INSTALLATION**

**KALĀHEO WATER SYSTEM**

**KALĀHEO, KAUA‘I, HAWAI‘I**

<table>
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<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>101</td>
<td>1</td>
<td>LS</td>
<td>Connection of New 8&quot; Ductile Iron Waterline G to New 8&quot; Ductile Iron Waterline at WL G Sta. 0+00, including all appurtenances, in place complete.</td>
<td>$20,000.00</td>
</tr>
<tr>
<td>102</td>
<td>1</td>
<td>LS</td>
<td>Connection of New 8&quot; Ductile Iron Waterline G to Existing 8&quot; Existing Asbestos-Cement Waterline at WL G Sta.0+13.5±, including all appurtenances, in place complete.</td>
<td>$25,000.00</td>
</tr>
<tr>
<td>103</td>
<td>1</td>
<td>LS</td>
<td>Chlorination and flushing of water pipelines, including removal of temporary risers and incidental work, all in accordance with the specifications.</td>
<td>$210,000.00</td>
</tr>
<tr>
<td>104</td>
<td>580</td>
<td>LF</td>
<td>Tree Root Barrier, in place complete</td>
<td>$35.00</td>
</tr>
</tbody>
</table>

Subtotal

(Items 73 to 106, inclusive)

$6,045,108.00

Contingency, 20%

$1,209,021.60

Subtotal

$7,254,129.60

### Escalation@12% (to 2023)

870,495.55

### Total Bid

8,124,625.15