

City of Calistoga

Staff Report

TO: Honorable Mayor and City Council
FROM: Derek Rayner, Senior Civil Engineer
VIA: Dan Takasugi, Public Works Director/City Engineer
DATE: February 1, 2011
SUBJECT: Consideration of a Resolution Approving Amendment No. 2 to the Professional Services Agreement with Tetra Tech, Inc. in an Amount Not to Exceed \$32,501 for Additional Design and Related Services for the 1.5 Million Gallon Water Storage Tank on the Mount Washington Property and Authorizing the City Manager to Execute the Agreement

APPROVAL FOR FORWARDING:


Richard D. Spitler, City Manager

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2 **ISSUE:**
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4 Consideration of a Resolution Approving Amendment No. 2 to the Professional Services
5 Agreement with Tetra Tech, Inc. in an Amount Not to Exceed \$32,501 for Additional
6 Design and Related Services for the 1.5 Million Gallon Water Storage Tank on the Mount
7 Washington Property and Authorizing the City Manager to Execute the Agreement.
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9 **RECOMMENDATION:**
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11 Adopt the Resolution.
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13 **BACKGROUND:**
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15 The City is required to provide sufficient treated water storage capacity to meet
16 Department of Public Health water system requirements by meeting the daily demands of
17 customers, satisfying peak fire flow requirements, and providing an emergency reserve in
18 the event of an interruption in the supply or transmission of potable water. Although the
19 City maintains a 1 million gallon storage tank at Feige Canyon, this tank does not provide
20 enough storage to meet the current population's water storage requirements. In addition,

21 the existing water tank is due to be taken out of service for cleaning, repair, and re-
22 coating. The City's need for additional water storage capacity was identified in the Water
23 Facilities Master Plan, which was adopted by the Council in 2000.

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25 An extensive site selection process and preliminary design analysis resulted in the
26 selection of a site on Mount Washington for the construction of a water storage tank, to
27 be located at the same elevation as the Feige Canyon tank. Mount Washington is a
28 small knoll located within the City limits along Silverado Trail, approximately 1,500 feet
29 southeast of Brannan Street. By early 2006, the City of Calistoga reached a final
30 agreement for the purchase of the Mount Washington property.

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32 **DISCUSSION:**

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34 *Existing Budgets & Current Status:*

35 On February 7, 2006 the City Council approved a Professional Services Agreement with
36 Tetra Tech in the amount of \$317,440 for preliminary design, final design, and design
37 services during construction, and on April 1, 2008 the City Council approved Amendment
38 No. 1 in the amount of \$21,147 for additional geotechnical and design work.

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40 The final design is presently at the 90% completion level, and the next design package
41 (the Final Design) is expected within the next few weeks.

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43 *Description of Additional Services:*

44 This amendment (Amendment No. 2) is the result of the following additional services:

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- 46 • Delay's related to funding, staff availability and changes
 - 47 • Additional comments (above and beyond what's normally expected @ 90%)
 - 48 • California Building Code Change
 - 49 • Storm Water Pollution Prevention Plan (SWPPP) - report, permit, and plans

50 A major reason for the project's delay has been staff's effort to obtain project funding and
51 availability. \$3.75 million in low interest loan funding with the U.S. Department of
52 Agriculture was not finalized until late in 2009. Without this low interest rate loan, the
53 project would have placed a much higher burden on City ratepayers. City staff availability
54 was also significantly reduced due to litigation workload and active construction projects.

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56 As the project schedule considerably lengthened, staff changes took place (both City staff
57 and Tetra Tech's design team). These changes caused some disruption to the process
58 which translated into some increases in the design costs. However, please note that
59 Tetra Tech has taken responsibility for the extra costs associated with delays that are
60 their own responsibility.

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62 The delay in project schedule allowed City staff to leverage additional review comments
63 by West Yost, DYK (the Tank manufacturer), and internally. These additional comments
64 will improve the quality of the design for a more successful project, but have added some
65 additional work and costs not normally anticipated at this stage in the design process.
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67 Amendment No. 2 also includes additional work/costs related to a building code change.
68 The California Building Code (CBC) has been modified twice since the time of the
69 geotechnical engineer's original work. The changes were made to the seismic
70 parameters, mainly ground acceleration responses for re-characterized fault
71 zones/magnitudes (peak ground motions). As a result, the soils engineer had to provide
72 updated seismic design values and Tetra Tech's structural engineer's had to re-analyze
73 and modify the design of the tank plans and specifications.
74

75 Tetra Tech's scope of work was also increased to include the addition of a Storm Water
76 Pollution Prevention Plan (SWPPP report), permit, and erosion control plans. This work
77 dictates how the construction contractor is to reduce construction storm water pollution
78 throughout construction activities. Originally, the construction contractor was going to
79 produce this information, which use-to-be common practice but since then, it is typical to
80 provide this information as part of the design package. Staff requested that Tetra Tech
81 complete the SWPPP report, permit and erosion control plans as part of their work.
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83 *Conclusion:*

84 Staff worked extensively with Tetra Tech to reduce their original amendment proposal
85 and recommends approving Amendment No. 2 to the Professional Services Agreement
86 in the amount of \$32,501 for a total contract of \$371,088.00.
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88 **NEXT STEPS:**
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90 As stated previously, the Final Design package will be completed by the end of February
91 2011. Staff requested and received approval from the City Council on June 17, 2008 to
92 proceed with a request for bids for construction upon completion of the Design. Contract
93 award is anticipated in late April or early May.
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95 Staff received approval from the City Council on December 7, 2010 to award a contract to
96 Pacific Tree Care to complete the Tree Removal portion of the project. Tree removal
97 work has begun.
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99 Staff will seek Council approval in April or May to award a Consultant Services
100 Agreement for Project Inspection services. Construction Management will be performed
101 in-house by our Senior Engineer.
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104 **FISCAL IMPACT:**

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106 Funds are available in the FY 10/11 Capital Improvements – Water Distribution Budget,
107 Account No. 12-5232-4905, to complete the design of the Water Tank.

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109 **ATTACHMENTS**

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111 1. Resolution
112 2. Amendment No. 2 with proposal

