No other business shall be conducted at this meeting. The public shall have an opportunity to address the Authority only with respect to items set forth in this agenda. Each individual or group will be limited to no more than five minutes. Prior to this time, speakers are requested to fill out a “Request to Speak” card and submit it to the Clerk of the Board.

I  **ROLL CALL** – Directors Atwal, Brown, Ledbetter, Lofton, Vasquez

II  **PUBLIC COMMUNICATIONS:** Any person may speak about any subject of concern within the jurisdiction of TRLIA which is not on today’s agenda. The total amount of time allotted shall be limited to a total of 15 minutes and each individual or group will be limited to no more than 5 minutes. Prior to this time, speakers are requested to fill out a “Request to Speak” card and submit it to the secretary.

III  **ACTION ITEMS**

   A. Approve meeting minutes of August 21, 2018.

   B. Approve Amendment No. 23 to GEI Contract for Engineering and Environmental Services for the Western Pacific Interceptor Canal 200-Year Standard project, 2018 FEMA certification, and ongoing engineering support of operation and maintenance of levee system; and authorize Executive Director to negotiate and execute final amendment upon review and approval of Counsel.

   C. Approve Contract Change Order #7 in the amount of $5,500, to include additional work by River Partners for maintenance at Feather River Elderberry Transplant area.

IV  **BOARD AND STAFF MEMBERS REPORT**

   A. Miscellaneous staff reports

V  **ADJOURN**
THREE RIVERS LEVEE IMPROVEMENT AUTHORITY

AUGUST 21, 2018

MINUTES

Call to order 2:12 p.m. with a quorum being present as follows: Directors Sardeep Atwal, Rick Brown, Doug Lofton, and Andy Vasquez. Director Gary Ledbetter was absent. Also present were Executive Director Paul Brunner, Counsel Andrea Clark, and Office Specialist Mary Pasillas. Vice Chair Vasquez presided.

I ROLL CALL – Directors Atwal, Brown, Ledbetter, Lofton, Vasquez – Director Ledbetter absent

II PUBLIC COMMUNICATIONS: None.

III CONSENT AGENDA

A. Approve meeting minutes of July 17, 2018.

MOTION: Move to approve
MOVED: Doug Lofton SECOND: Rick Brown
AYES: Rick Brown, Doug Lofton, Andy Vasquez
NOES: None ABSTAIN: None ABSENT: Sarbdeep Atwal, Gary Ledbetter

IV ACTION ITEMS

A. Approve amendment with HDR Inc., to extend contract termination date, and authorize Executive Director to execute. Executive Director Paul Brunner recapped contract and extension of contract to Dec. 31, 2021.

MOTION: Move to approve
MOVED: Rick Brown SECOND: Doug Lofton
AYES: Rick Brown, Doug Lofton, Andy Vasquez
NOES: None ABSTAIN: None ABSENT: Sarbdeep Atwal, Gary Ledbetter

B. Approve Amendment No. 15 to agreement with Bender Rosenthal, Inc. for Real Estate/Right of Way consulting services, and authorize Execute Director to execute. Executive Director Paul Brunner recapped agreement extension to June 30, 2020 and added cost of $220,000 which the State would pay 85%.

MOTION: Move to approve
MOVED: Doug Lofton SECOND: Rick Brown
AYES: Rick Brown, Doug Lofton, Andy Vasquez
NOES: None ABSTAIN: None ABSENT: Sarbdeep Atwal, Gary Ledbetter

C. Approve contract with George Sills Geotechnical Engineering Consultant, LLC for engineering consulting services, and authorize Executive Director to execute. Executive Director Paul Brunner recapped contract.

MOTION: Move to approve
MOVED: Rick Brown SECOND: Doug Lofton
AYES: Rick Brown, Doug Lofton, Andy Vasquez
D. Approve amendment to agreement with David T. Williams & Associates, Engineers, LLC for engineering services, and authorize Executive Director to execute. Executive Director Paul Brunner recapped agreement and extension to December 31, 2021.

MOTION: Move to approve
MOVED: Doug Lofton SECONd: Rick Brown
AYES: Rick Brown, Doug Lofton, Andy Vasquez
NOES: None ABSTAIN: None ABSENT: Sarbdeep Atwal, Gary Ledbetter

E. Approve contract amendment with Sage Engineers Inc., for engineering services, and authorize Executive Director to execute. Executive Director Paul Brunner recapped contract amendment extending the contract to December 31, 2019

MOTION: Move to approve
MOVED: Rick Brown SECONd: Doug Lofton
AYES: Rick Brown, Doug Lofton, Andy Vasquez
NOES: None ABSTAIN: None ABSENT: Sarbdeep Atwal, Gary Ledbetter

2:20 p.m. Director Atwal joined the meeting in progress.
2:21 p.m. Director Vasquez left the meeting. Director Atwal presided the meeting.

V CLOSED SESSION: The Board retired into closed session at 2:21 p.m. and returned at 2:49 p.m. with all members present as indicated above. The Chair announced there was nothing to report.

1. Conference with Legal Counsel – Pending litigation pursuant to Government Code §54956.9. Richard G. Wilbur vs TRLIA (Yuba County Superior Court Case No. CVPT 18-000798)

VI BOARD AND STAFF REPORTS:

Executive Director Paul Brunner
- Floodplain Management Association (FMA) Conference- September (4) 5-7, 2018 –Reno, Nevada
- Federal Emergency Management Agency (FEMA) Certification
- Goldfields update on key dates

VII ADJOURN 2:55 P.M.

__________________________________________
Chair

ATTEST: RACHEL FERRIS
CLERK OF THE BOARD OF SUPERVISORS

__________________________________________
Approved:
TO: Three Rivers Levee Improvement Authority Board  
FROM: Paul Brunner, Executive Director

SUBJECT: Approve Amendment 23 to GEI Contract for Engineering and Environmental Services for the WPIC 200-Year Standard Project, 2018 FEMA Certification, and Ongoing Engineering in Support of O&M

Recommended Action
Approve Amendment 23 to the existing contract with GEI for additional engineering and environmental services for the Western Pacific Interceptor Canal (WPIC) 200-Year Standard Project, 2018 FEMA certification, and ongoing engineering in support of operation and maintenance of the levee system; and authorize the Executive Director to negotiate, sign and execute the final amendment upon review by General Counsel.

Discussion
GEI continues to provide environmental and engineering support on several TRLIA projects. Amendment 23 provides new scope and budget for GEI to perform engineering services in support of 2018 FEMA certification and operation and maintenance of the Feather and Bear levees.

Additionally, Amendment 23 provides additional budget (~$123,000) to offset the cost overrun associated with Native American monitoring of construction along the WPIC west levee. The original budget for Native American monitoring of the WPIC construction was approximately $23,000. The actual cost of the monitoring was nearly $250,000. However, GEI’s biological and cultural resources effort on the WPIC, as well as cultural resources effort on other projects was less than originally anticipated. Therefore unused budget on these other tasks can be applied towards the WPIC cultural resources task to offset nearly half of the Native American monitoring cost overrun. Following application of the unused budget toward the WPIC cultural resources task, a budget deficit of approximately $123,000 remains. This amount is included in the amendment.

Lastly, Amendment 23 extends the GEI contract to 2020. Future amendments are anticipated to provide scope and budget for construction monitoring of the Goldfields 200-Year project and for 200-Year certification of the RD 784 levee system.
**Fiscal Impact**
This amendment would increase the GEI contract by an amount not to exceed $274,319 for services on a time and expenses basis, to a maximum amount not exceeding a total contract of $24,712,806. GEI is using 2015 GEI rates and will waive any mark up on sub-consultants with this amendment. The WPIC effort is cost-shared with State (70%) under the UYLIP EIP funding agreement. FEMA certification and ongoing engineering in support of operation and maintenance is not a cost-shared effort and is 100% TRLIA funded.

**ATTACHMENT**
1. Amendment No. 23 (with Exhibit A, GEI letter)
AMENDMENT NO. 23

AGREEMENT FOR PROFESSIONAL SERVICES
FOR
PHASE 4 FEATHER RIVER LEVEE REPAIRS
BETWEEN
THREE RIVERS LEVEE IMPROVEMENT AUTHORITY AND
BOOKMAN-EDMONSTON/GEI CONSULTANTS

THIS 23rd AMENDMENT TO AGREEMENT is made effective ____________________,
by and between Three Rivers Levee Improvement Authority ("TRLIA") and Bookman-
Edmonston/GEI Consultants, a division of GEI Consultants, Inc. ("Contractor"), who
agree as follows:

1. **Recitals.** This Amendment is made with reference to the following background recitals:

1.1. Effective December 13, 2005, the parties entered into the Agreement for Professional Services relating to TRLIA’s Phase 4 Feather River Levee project with a contract value of $1,439,400.

1.2. Effective April 25, 2006, the parties entered into Amendment No. 1 to the Agreement for Professional Services relating to TRLIA’s Phase 4 Feather River Levee Repair design in the amount of $3,082,240 for a total contract value of $4,521,640.

1.3. Effective June 27, 2006, the parties entered into Amendment No. 2 to the Agreement for Professional Services relating to TRLIA’s Phase 4 Feather River Levee Repair design in the amount of $32,700 for a total contract value of $4,554,340.

1.4. Effective October 30, 2006, the parties entered into Amendment No. 3 to the Agreement for Professional Services relating to TRLIA’s Phase 4 Feather River Levee Repair design in the amount of $262,500 for a total contract value of $4,816,840.

1.5. Effective January 16, 2007, the parties entered into Amendment No. 4 to the Agreement for Professional Services relating to TRLIA’s Phase 4 Feather River Levee Repair design in the amount of $115,000 for a total contract value of $4,931,840.

1.6. Effective April 3, 2007, the parties entered into Amendment No. 5 to the Agreement for Professional Services relating to TRLIA’s Phase 4 Feather River Setback Levee design in the amount of $5,860,244 for a total contract value of $10,792,084.

1.7. Effective September 18, 2007, the parties entered into Amendment No. 6 to the Agreement for Professional Services relating to TRLIA’s Phase 4 Feather River Setback Levee design in the amount of $1,963,660 for a total contract value of $12,755,744.
1.8. Effective April 15, 2008, the parties entered into Amendment No. 7 to the Agreement for Professional Services relating to TRLIA’s Phase 4 Feather River Setback Levee design in the amount of $636,300 for a total contract value of $13,392,044.

1.9. Effective June 17, 2008, the parties entered into Amendment No. 8 to the Agreement for Professional Services relating to TRLIA’s Phase 4 Feather River Setback Levee design in the amount of $5,671,000 for a total contract value of $19,065,044.

1.10. Effective September 8, 2008, the parties entered into Amendment No. 9 to the Agreement for Professional Services relating to TRLIA’s Phase 4 Feather River Setback Levee design in the amount of $358,200 for a total contract value of $19,421,244.

1.11. Effective November 18, 2008, the parties entered into Amendment No. 10 to the Agreement for Professional Services relating to TRLIA’s Phase 4 Feather River Setback Levee design in the amount of $536,764 for a total contract value of $19,958,008.

1.12. Effective July 9, 2009, the parties entered into Amendment No. 11 to the Agreement for Professional Services relating to TRLIA’s Phase 4 Feather River Setback Levee design in the amount of $829,986 for a total contract value of $20,787,994.

1.13. Effective May 18, 2010, the parties entered into Amendment No. 12 to the Agreement for Professional Services relating to TRLIA’s Phase 4 Feather River Setback Levee design in the amount of $860,948 for a total contract value of $21,648,942.

1.14. Effective May 17, 2011, the parties entered into Amendment No. 13 to the Agreement for Professional Services relating to TRLIA’s Phase 4 Feather River Setback Levee design in the amount of $668,980 for a total contract value of $22,317,922 and to extend the contract termination date to December 31, 2013.

1.15. Effective December 18, 2012, the parties entered into Amendment No. 14 to the Agreement for Professional Services relating to TRLIA’s Phase 4 Feather River Setback Levee design in the amount of $433,813 for a total contract value of $22,751,735.

1.16. Effective January 21, 2014, the parties entered into Amendment No. 15 to the Agreement for Professional Services relating to TRLIA’s Phase 4 Feather River Levee Improvement Project to extend the contract termination date to December 31, 2014.

1.17. Effective February 17, 2015, the parties entered into Amendment No. 16 to the Agreement for Professional Services relating to TRLIA’s Phase 4 Feather River Levee Improvement Project to extend the contract termination date to December 31, 2016.

1.18. Effective May 19, 2015, the parties entered into Amendment No. 17 to the Agreement for Professional Services relating to TRLIA’s Phase 4 Feather River Levee Improvement Project in the amount of $311,270 for a total contract value of $23,063,005.
1.19. Effective November 17, 2015, the parties entered into Amendment No. 18 to the Agreement for Professional Services relating to the Feather River Levee Repair Project and Urban Levee Certification in the amount of $447,608 for a total contract value of $23,510,613.

1.20. Effective June 21, 2016, the parties entered into Amendment No. 19 to the Agreement for Professional Services relating to the Feather River Levee Repair Project and Urban Levee Certification in the amount of $149,902 for a total contract value of $23,660,515.

1.21. Effective September 20, 2016, the parties entered into Amendment No. 20 to the Agreement for Professional Services relating to TRILIA's Phase 4 Feather River Levee Improvement Project to extend the contract termination date to December 31, 2018.

1.22. Effective February 28, 2017, the parties entered into Amendment No. 21 to the Agreement for Professional Services relating to Goldfields 200-Year Project in the amount of $598,868 for a total contract of $24,259,383. The parties now desire to amend the Professional Services Agreement to add additional tasks and increase the contract budget.

1.23. Effective June 6, 2017, the parties entered into Amendment No. 22 to the Agreement for Professional Services relating WPIC 200-Year Standard Project and the Feather River Setback Conservation Bank in the amount of $179,104 for a total contract of $24,438,487. The parties now desire to amend the Professional Services Agreement to add additional tasks, increase the contract budget, and extend the contract termination date.

2. **Twenty Third Amendment to Agreement.** The Professional Services Agreement is hereby amended as follows:

2.1. The scope of services (Attachment A to the Agreement for Professional Services between TRILIA and B-E/GEI, dated December 13, 2005) is amended to expand the scope of work and budget as described by letter dated September 24, 2018 (Exhibit A) to support the WPIC 200-Year Standard Project, 2018 FEMA Certification, and Ongoing Engineering in Support of Operations and Maintenance of the Feather and Bear river levees.

2.2. The contract termination date is revised to December 31, 2020.

2.3. The payment, budget, and not-to-exceed amounts (Professional Services Agreement, dated December 13, 2005, Attachment B) are amended by the attached Exhibit A to include the additional amount of $274,319 for a total contract of $24,712,806.

3. **No Effect on Other Provisions.** Except for the amendments in Section 2, the remaining provisions of the Professional Services Agreement shall be unaffected and remain in full force and effect.
IN WITNESS WHEREOF, the parties hereto have executed this Agreement on

THREE RIVERS LEVEE IMPROVEMENT
AUTHORITY OF YUBA COUNTY

Paul G. Brunner
Executive Director

BOOKMAN-EDMONSTON,
A DIVISION OF GEI
CONSULTANTS, INC.

Dan Wanket
Vice President, West Region
Operations Manager

ATTEST:

Rachel Ferris
Clerk of the Board, TRLIA

APPROVED AS TO FORM:

Andrea P. Clark
General Counsel, TRLIA
September 24, 2018
050115

Mr. Paul Brunner, Executive Director
Three Rivers Levee Improvement Authority
1114 Yuba Street, Suite 218
Marysville, CA 95901

Re: Agreement for Professional Services on Three Rivers Levee Improvement Authority’s Phase 4 Feather River Levee Repair Project – Request for Amendment No. 23

Dear Mr. Brunner:

In follow up to recent conversations with Mr. Ric Reinhardt, TRLIA Program Manager, the purpose of this letter is to present a scope of work and cost estimate for addressing requested work items for continued support for TRLIA’s levee repair program.

We understand TRLIA has decided to pursue FEMA re-accreditation of the Reclamation District (RD) 784 levee system to include incorporation of the Yuba Goldfields levee segment and is requesting GEI’s support in preparation of an accreditation package for the levee system. GEI supported TRLIA in its previous levee accreditation effort, with work performed in 2009 and early 2010 leading to FEMA accreditation of the then-existing levee system in May 2010. Subsequently, in 2015 and early 2016 GEI supported TRLIA in the preparation of a Substantial Evidence Engineer’s Report, Urban Level of Protection (Engineer’s Report) for levees of the RD 784 Levee System. The Engineer’s Report supported a finding that Adequate Progress has been made towards an Urban Level of Flood Protection.

The purpose of this Amendment No. 23 is to conform the project scope and budget to the above project requirements. The scope of work as currently identified is described below. The cost estimate for the anticipated effort is included in Attachment 1. In summary, we estimate that a budget increase of $274,319 is needed to complete the work described below.

FEMA Certification

TRLIA has requested that GEI conduct certain evaluations and documentation for the levee reaches for which GEI prepared designs, i.e. Bear River Setback Levee and Feather
River Levee Segments 1, 2 and 3 (Feather River levee from the Bear River Setback Levee north to the Union Pacific railroad bridge adjacent to Highway 70). More specifically, we understand GEI is to provide Engineer Opinions for the following FEMA criteria and levee segments:

<table>
<thead>
<tr>
<th>Levee Segment</th>
<th>FEMA Criteria</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bear River Setback Levee</td>
<td>Embankment and Foundation Stability</td>
</tr>
<tr>
<td>Feather River East Levee Segment 1</td>
<td>Embankment and Foundation Stability</td>
</tr>
<tr>
<td>Feather River East Levee Segment 2</td>
<td>Embankment and Foundation Stability</td>
</tr>
<tr>
<td>Feather River East Levee Segment 3</td>
<td>Embankment and Foundation Stability</td>
</tr>
<tr>
<td>Bear River Setback Levee</td>
<td>Embankment Protection</td>
</tr>
<tr>
<td>Feather River East Levee Segment 1</td>
<td>Embankment Protection</td>
</tr>
<tr>
<td>Feather River East Levee Segment 2</td>
<td>Embankment Protection</td>
</tr>
<tr>
<td>Feather River East Levee Segment 3</td>
<td>Embankment Protection</td>
</tr>
<tr>
<td>Bear River Setback Levee</td>
<td>Settlement</td>
</tr>
<tr>
<td>Feather River East Levee Segment 1</td>
<td>Settlement</td>
</tr>
<tr>
<td>Feather River East Levee Segment 2</td>
<td>Settlement</td>
</tr>
<tr>
<td>Feather River East Levee Segment 3</td>
<td>Settlement</td>
</tr>
</tbody>
</table>

We understand MBK Engineers will package and submit the necessary documentation to FEMA for Letter of Map Revision (LOMR) and to support FEMA accreditation of the levee system and will coordinate with FEMA during the review period to address any questions they may have and expedite the review process. The required documentation to be submitted to FEMA includes documentation prepared during design and construction of levee repairs including but not limited to the following:

- *Geotechnical data report summarizing the available geotechnical data*
- *Design report summarizing the geotechnical analyses performed in support of the levee evaluations*
- *Record drawings*
- *Hydraulic analysis, water surface profiles, and top of levee profiles*
- *Interior drainage plan*
- *Pre- and post-project floodplain inundation maps*
- *Operation and maintenance plan*
- *Construction quality control records from levee construction projects*
- *FEMA filing fees*

To provide a basis for the required Engineer Opinions, GEI will perform due diligence for its assigned levee segments including but not limited to the following:

- Site visit/levee inspection.
• Review of levee performance records for the period 2010-2018.
• Modifications of the levee system occurred since 2010, if any.
• Planned modifications of the levee system, if any.
• Identification of any recent improvements (occurred after the 2010 FEMA accreditation event) along the landside toe of the levee, if any, and evaluation of potential impacts on levee performance.
• Review of current O&M manual for the levee system.
• Meeting with RD 784 staff to review levee performance records and/or observations.
• Review of correspondence regarding levee performance issues between TRLIA or RD 784 and the CVFPB, DWR, USACE, or other regulatory agencies.
• Review of available levee crown survey and current 100-year water surface profile.
• Review of instrumentation data (piezometers, inclinometers, settlement monuments) for the period 2010-2018.
• Review of relief well performance data collected during high water events for the period 2010-2018.
• Review of relief well pump test data obtained during the period 2010-2018.
• Review of monitoring data obtained by RD 784 for the reach of Segment 1 levee where a crack was repaired.
• Review of transect data for erosion sites for the period 2010-2018.
• Evaluation of penetrations along the subject reaches of levee. This evaluation will use the geophysical surveys, data and evaluations performed for TRLIA’s ULDC compliance documentation as a basis. We have assumed that the inspections performed by GEI in 2015 can still be considered to be current and there will not be a need to inspect the interiors of pipes and culvert penetrations. However, observed performance occurrences will be discussed with RD 784, and, if appropriate, penetration Owner personnel will be contacted to gain an understanding of their pipeline operation, maintenance, and monitoring activities.
• Prepare concise memorandum that presents findings of the site visits, data reviews, and inspections. The memorandum will indicate whether any potential deficiencies have been identified that would need to be further evaluated or addressed to meet the requirements for FEMA accreditation. If appropriate recommendations would be provided for addressing potential deficiencies.
• Support TRLIA in Preparing FEMA Accreditation Summary Report. We understand TRLIA will prepare an accreditation summary document similar in format to the May 2010 TRLIA FEMA Accreditation Summary Report. GEI will support TRLIA in preparing the report by providing reviews of draft reports and preparing specific text inserts for the evaluations performed by GEI as needed.

As shown on Table 1 and detailed in Table 2 in Attachment 1, the estimated cost of GEI’s scope to support TRLIA’s FEMA accreditation documentation is $97,880. GEI’s scope will not include evaluations for freeboard, O&M Manual, closures and interior drainage system, which we understand will be covered by others in the TRLIA team.
We estimate that performing the FEMA certification services outlined above will take a minimum of approximately two months from the date we receive a Notice to Proceed. We will work closely with MBK Engineers to advance the Engineer Opinions and completion of the FEMA Accreditation Summary Report in parallel with the due diligence efforts described above as much as practical.

**Deliverables:**
- Draft and final memorandum summarizing the site visit, inspection, data reviews, and evaluations performed.
- Engineer Opinions for TRLIA's FEMA Accreditation Summary Report.

**Continued Engineering and O&M Support**
TRLIA has requested GEI's continued engineering support in addressing as-needed project and O&M support. This support could include:

- Historical design support for issues related to the Feather River Levee and Bear River Setback Levee
- Support to TRLIA for Feather River Setback Area land use issues
- Support to TRLIA in assisting RD 784 with levee O&M matters
- Project management support
- Other miscellaneous support issues as requested

As shown on Table 1 and detailed in Table 2 in Attachment 1, the estimated cost of GEI's continued engineering and O&M support is $53,672.

**Key Assumptions:**
- Miscellaneous project support as requested by TRLIA
- Allowance of 8 hours per month of miscellaneous project engineering support (up to 128 hours) through 2019
- Allowance of 80 hours for as-needed O&M support

**Deliverables:**
- Input to the monthly invoice and progress report will be coordinated with GEI's ongoing environmental tasks.

**Environmental Compliance Support**
The extent of Native American monitoring required during construction of the Western Pacific Interceptor Canal (WPIC) 200-Year Standard Project significantly exceeded the level of effort and budget allocated under Contract Amendment 18 (Task 7002). The total budget for Task 7002 was $138,312, including $23,400 for native American monitoring, but the actual cost of Native American monitoring alone was nearly $250,000. Efficiencies in project management, other GEI cultural resources work, and biological resources tasks have greatly reduced the impact of the significantly greater required amount of Native American monitoring.
We have estimated the level of effort required to complete the remaining biological resources tasks for the WPIC project (including surveys and monitoring for fence installation, post-construction vegetation monitoring, and agency reporting) and other tasks associated with Amendments 19 and 22, and propose the following budget re-allocation (note that only tasks with re-allocated budgets are shown):

<table>
<thead>
<tr>
<th>Task</th>
<th>Current Budget</th>
<th>Revised Budget</th>
<th>Difference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Task 7002 - Cultural Resources Consultation Services for Western Pacific Interceptor Canal</td>
<td>$138,312</td>
<td>$329,140.59</td>
<td>-$190,828.59</td>
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<td>Task 7001 - Cultural Resources Consultation Services for Yuba Goldfields 100 Year</td>
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<td>Task 7003 - Cultural Resources Consultation Services for Feather River setback Mitigation Bank</td>
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<tr>
<td>Task 7014 – WPIC Post-Construction Biological Monitoring and Reporting</td>
<td>$54,536</td>
<td>$45,483.66</td>
<td>$9,052.34</td>
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</tbody>
</table>

Total Budget Deficit / Amount of Required Change $122,815

As shown above and in Attachment 1, we estimate that we need an additional $122,815 to complete the construction and post-construction biological monitoring for WPIC. While additional budget is needed to address the additional Native American monitoring requirements that were incurred during construction, we have identified efficiencies in other cultural monitoring tasks performed by GEI staff. In addition, based on the first year of post-construction monitoring at WPIC, we have refined our approach and believe the required level of effort can be reduced from what we originally assumed.

Key Assumptions:
- Remaining tasks associated with the WPIC project will be limited to biological surveys and monitoring for fence installation, post-construction vegetation monitoring, and agency reporting through 2020

Deliverables:
- Draft and final post-construction vegetation monitoring memoranda (2019 and 2020)
- Draft and final annual monitoring reports (2018-2020) and final mitigation report (2020) for submittal to the resource agencies

Summary

With Contract Amendment No.23, GEI’s remaining budget as of September 1, 2018 is approximately $627k. The following summarizes the activities to be performed under our current scope of work, including Amendment No. 23 budget augmentation:
- Remaining construction and post-construction biological monitoring = $51k
- Environmental Support for Goldfields 200-year Environmental Support = $362k
- Environmental Support for Feather Conservation Bank = $48k
- FEMA Certification Support = $98k
- Continued Engineering and O&M Support = $68k

We propose using our 2015 rate schedule to perform work under this amendment, which will result in a 10% cost reduction for TRLIA. In addition, GEI has reduced the mark-up on direct project expenses to 0% for this amendment. The GEI 2015 fee schedule is provided as Attachment 2.

The scope and budget adjustments contained herein represent our best estimate at this time to perform the activities discussed above. With this said, we strive to conduct our work as efficiently as possible. We will manage our efforts and strive to keep actual costs under the approved budget.

We are pleased with the opportunity to work with you and your staff during the final phase of this vitally important project. Please call me or Alberto Pujol if you have any questions.

Sincerely,
GEI Consultants,

[Signature]
Dan Wanket, P.M.P.
Project Manager

Attachments 1 and 2

C: Ric Reinhardt (TRLIA/MBK Engineers)
Steve Verigin and Alberto Pujol (GEI Consultants)
Attachment 1

Cost Estimate Table
# Table 1
Three Rivers Levee Improvement Authority
GEI Cost Estimate - Amendment No. 23
9/24/2018

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<th>Work Item</th>
<th>Estimated Costs</th>
<th>Comments/Assumptions</th>
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<tr>
<td>FEMA Accreditation Support</td>
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<tr>
<td>Continued Miscellaneous Engineering and O&amp;M Support</td>
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<tr>
<td>Task 7002: Cultural Resources Services - WPIC</td>
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<tr>
<td><strong>Total Estimated Cost</strong></td>
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<td>Project Manager Gr 8</td>
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<tr>
<td>Additional Environmental Support</td>
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<tr>
<td>Task 7011: Cultural Resources Services - Goldfields 100-Year</td>
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<td>120</td>
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<td>Task 7012: Cultural Resources Services - WPIG</td>
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<td>120</td>
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<td>Total</td>
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Attachment 2

GEI Fee Schedule
FEE SCHEDULE

Personnel Category                      Hourly Billing Rate $ per hour
Staff Professional – Grade 1           $ 104
Staff Professional – Grade 2           $ 114
Project Professional – Grade 3        $ 128
Project Professional – Grade 4        $ 141
Senior Professional – Grade 5          $ 167
Senior Professional – Grade 6          $ 190
Senior Professional – Grade 7          $ 225
Senior Consultant – Grade 8            $ 253
Senior Consultant – Grade 9            $ 312
Senior Principal – Grade 10            $ 312
Senior CADD Drafter and Designer       $ 126
CADD Drafter / Designer and Senior Technician $ 114
Technician, Word Processor, Administrative Staff $ 94
Office Aide                             $ 73

These rates are billed for both regular and overtime hours in all categories.
Rates will increase up to 5% annually, at GEI’s option, for all contracts that extend beyond twelve (12) months after the date of the contract. Rates for Deposition and Testimony are increased 1.5 times.

OTHER PROJECT COSTS

Subconsultants, Subcontractors and Other Project Expenses - All costs for subconsultants, subcontractors and other project expenses will be billed at cost plus a 10% service charge. Examples of such expenses ordinarily charged to projects are subcontractors; subconsultants: chemical laboratory charges; rented or leased field and laboratory equipment; outside printing and reproduction; communications and mailing charges; reproduction expenses; shipping costs for samples and equipment; disposal of samples; rental vehicles; fares for travel on public carriers; special fees for insurance certificates, permits, licenses, etc.; fees for restoration of paving or land due to field exploration, etc.; state sales and use taxes and state taxes on GEI fees.

Billing Rates for Specialized Technical Computer Programs – Computer usage for specialized technical programs will be billed at a flat rate of $10.00 per hour in addition to the labor required to operate the computer.

Field and Laboratory Equipment Billing Rates – GEI-owned field and laboratory equipment such as pumps, sampling equipment, monitoring instrumentation, field density equipment, portable gas chromatographs, etc. will be billed at a daily, weekly, or monthly rate, as needed for the project. expendable supplies are billed at a unit rate.

Transportation and Subsistence - Automobile expenses for GEI or employee owned cars will be charged at the rate per mile set by the Internal Revenue Service for tax purposes plus tolls and parking charges or at a day rate negotiated for each project. When required for a project, four-wheel drive vehicles owned by GEI or the employee will be billed at a daily rate appropriate for those vehicles. Per diem living costs for personnel on assignment away from their home office will be negotiated for each project.

PAYMENT TERMS

Invoices will be submitted monthly or upon completion of a specified scope of service, as described in the accompanying contract (proposal, project, or agreement document that is signed and dated by GEI and CLIENT).

Payment is due upon receipt of the invoice. Interest will accrue at the rate of 1% of the invoice amount per month, for amounts that remain unpaid more than 30 days after the invoice date. All payments will be made by either check or electronic transfer to the address specified by GEI and will include reference to GEI’s Invoice number.
October 23, 2018

TO: Three Rivers Levee Improvement Authority Board

FROM: Paul Brunner, Executive Director


**Recommended Action**

Authorize the Executive Director to approve a contract change order to include additional work by River Partners related to maintenance at the Feather River Elderberry Transplant (FRET) area. The amount of the change order shall be $5,500.00

**Background**

The Feather River Elderberry Transplant site, located in the setback area of the Feather River, was constructed by TRLIA to compensate for adverse impacts to the valley elderberry longhorn beetle. The site was constructed in 2010 and the installed vegetative plantings are well established. More recently, additional plantings have been made at the site to compensate for impacts from other projects (e.g., WPIC 200-Year Project). In general, maintenance of the site, including watering requirements, have been modest.

However, a fire occurred at the site in September 2018 (see attached photos) and damaged portions of the irrigation lines present at the site and increased watering will promote improved recovery of the plants. Therefore, the irrigation needs replacement. River Partners will install new irrigation as required to facilitate recovery of the plants at the site.

River Partners has been involved in planting and maintenance of the FRET site since 2010 through a contract executed July 27, 2010. This is the seventh change order to the contract.

**Fiscal Impact**

The contract amendment would increase the existing contract by $5,500.00 to a maximum amount not exceeding a total contract of $1,860,272.80. This work will be cost shared with the State under the Feather River Levee Improvement Project funding agreement.

**Attachment**

River Partners Change Order Number 7

Photos
Change Order

Date: 10/16/2018

Owner: Three Rivers Levee Improvement Authority
Contractor: River Partners
Project: Feather River Setback Mitigation & Planting
Change order number: 7

Original contract date: 7-15-10

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The original contract sum was: $1,199,747.00
Net amount of previous change orders: $655,025.80
Total original contract amount plus or minus net change orders: $1,854,772.80
Total amount of this change order: $5,500.00
The new contract amount including this change order will be: $1,860,272.80

Contractor:
John Carlon, President, River Partners
Contractor's Representative
580 Vallombrosa Ave.
Chico, CA 95926
City, State, Zip
Date
Signature

Owner:
Paul Brunner, Executive Director, TRLIA
Name
1114 Yuba Street
Address
Marysville, CA 95901
City, State, Zip
Date
Signature
Feather River Setback Mitigation Project

Scope of Work
Change Order #7

To assist TRLIA in building upon their successes and meet their mitigation obligations associated with the Feather River Elderberry Transplant (FRET) mitigation area, River Partners proposes the following:

- Replacement of irrigation system following September, 2018 fire at the Feather River Elderberry Transplant Mitigation Area.
### FRSMP: Messick Lake, Floodplain Drainage Swale, and Feather River Elderberry Transplants

River Partners Proposal

Jan 2018 - December 2019

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