



Sutter Butte Flood Control Agency

Board of Directors Agenda Special Meeting, April 20, 2022, 1 p.m.
City of Yuba City – Council Chambers - 1201 Civic Center Blvd., Yuba City

MODIFIED BROWN ACT REQUIREMENTS IN LIGHT OF COVID-19

In Compliance with CA Executive Orders AB361 members of the Board of Directors and members of the public will participate in this meeting in person and by teleconference. The call in information for the Board of Directors and the public is as follows:

Zoom Meeting URL: https://us06web.zoom.us/webinar/register/WN_4M4kcMu3SjgaOK8nQxTuiA

Any member of the public on the telephone may speak during Public Comment or may email public comments to admin@sutterbutteflood.org and comments will be read from each member of the public. During this period of modified Brown Act Requirements, Sutter Butte Flood Control Agency will use best efforts to swiftly resolve requests for reasonable modifications or accommodations with individuals with disabilities, consistent with the Americans with Disabilities Act, and resolving any doubt whatsoever in favor of accessibility.

County of Sutter

Mat Conant
Mike Ziegenmeyer
Alt. Karm Bains
Alt. Nicholas Micheli

County of Butte

Bill Connelly
Tod Kimmelshue

City of Yuba City

Shon Harris
Wade Kirchner
Alt. Dave Shaw
Alt. Marc Boomgaarden

City of Live Oak

Lakhvir Ghag
Alt. Jeramy Chapdelaine

City of Gridley

Bruce Johnson

City of Biggs

Bo Sheppard
Alt. Chuck Nuchols

Levee District 1

Charlie Hoppin
Al Montna
Alt. Gary Marler
Alt. Drew Stresser

Levee District 9

Mike Morris
Chris Schmidl

AGENDA SUMMARY

REGULAR MEETING/CALL TO ORDER

- Roll Call
- Pledge of Allegiance

PUBLIC COMMENT

Members of the public will be allowed to address the Sutter Butte Flood Control Agency's Board of Directors on items of interest to the public that are within the subject matter jurisdiction of the Board. Any member of the audience who may wish to bring a matter before the Board that has not been placed on the agenda may do so at this time; however, State law provides that no action may be taken on any item not appearing on the posted Agenda.

CONSENT CALENDAR

The Consent Calendar groups together those items which are considered noncontroversial or for which prior policy direction has been given to staff and that require only routine action by the Board. The Chair will advise the audience that the matters may be adopted in total by one motion; however, the Board may, at its option or upon request of a member of the public, consider any matter separately.

1. Approval of the Minutes for the March 9, 2022 Board Meeting
2. Approve an Addendum to the Agency's 5-Year Capital Budget to incorporate the Lower Feather River Phase II Levee Repair Project (LFR Phase II) and authorize the Executive Director to approve associated task orders and amendment to professional services agreements for the design and permitting of the project
3. Approve and authorize the Executive Director to execute Task Order 26 Amendment No. 2 with HDR for services related to the closeout of the Feather River West Levee Project O&M Manual updates
4. Approval of Task Order 25 Amendment No. 2 with HDR for Engineering Services related to the Second Street Encroachments Removal Work
5. Continuing Brown Act Resolution

INFORMATIONAL AND POSSIBLE APPROVAL ITEMS

6. Presentation and File Monthly Financial Report
7. Presentation and File Program/Project Update

ADJOURNMENT

The next regularly scheduled Board of Directors meeting will be held on Wednesday, May 11, 2022 at 1 p.m.



Sutter Butte Flood Control Agency

Board of Directors Minutes Regular Meeting, March 9, 2022, 1 p.m.

MODIFIED BROWN ACT REQUIREMENTS IN LIGHT OF COVID-19

The Sutter Butte Flood Control Agency (Agency) Board of Directors (Board), State of California, met on the above date at 1 p.m. in Compliance with CA Executive Orders AB361 members of the Board of Directors and members of the public participated in this meeting by teleconference.

These minutes do not represent a transcript of the meeting and are intended to be a summary of the most important points. For a complete record, please refer to the video recording of the meeting, which is posted on SBFCA's website: <http://sutterbutteflood.org/board/meetings-agendas/>

MEMBERS PRESENT

County of Sutter:	Mat Conant, Mike Ziegenmeyer
County of Butte:	Tod Kimmelshue, Bill Connelly
City of Yuba City:	Wade Kirchner, Shon Harris
City of Biggs:	Bo Sheppard
City of Gridley:	Bruce Johnson
City of Live Oak:	Lakhvir Ghag
Levee District 9:	Mike Morris, Chris Schmidl
Levee District 1:	Charlie Hoppin, Drew Stresser

MEMBERS ABSENT: Al Montna

STAFF PRESENT: Michael Bessette, Executive Director; Agency Counsel; Scott Shapiro; Seth Wurzel, Budget Manager; Chris Fritz; and Terra Yaney, Board Clerk

MEETING/CALL TO ORDER

At 1:00 p.m., Director Wade Kirchner opened the meeting and led the group in the pledge of allegiance.

CONSENT CALENDAR

1. Approval of the Minutes for the February 9, 2022 Board Meeting
2. Authorize the Executive Director to submit a grant application and execute a funding agreement with California Department of Water Resources for Feather River Regional Flood Management Planning
3. Continuing Brown Act Resolution No. 2022-05

A motion to approve the Consent Calendar was made by Director Bo Sheppard and seconded by Director Chris Schmidl. The motion passed with no objection. The Consent Calendar was approved as follows:

- Mat Conant– yes
- Bill Connelly- yes
- Lakhvir Ghag– yes
- Shon Harris- yes
- Charlie Hoppin- Yes
- Bruce Johnson - yes
- Tod Kimmelshure- yes
- Wade Kirchner- yes
- Mike Morris - yes
- Bo Sheppard– yes
- Chris Schmidl - yes
- Drew Stresser- yes
- Mike Ziegenmeyer - yes

No public Comment

The entire discussion and presentation is available on the SBFCA website at:
<http://sutterbutterflood.org/board/meetings-agendas/>

PRESENTATION, DISCUSSION & ACTION ITEMS

4. Direction to Proceed on the Lower Feather River Phase 2 Levee Repair Project

Executive Director Michael Bessette provided background on the project. He reported that the remaining 1.6 miles of the Lower Feather River west levee will ultimately need to be repaired by SBFCA to ensure that the Feather River West Levee provides an appropriate level of protection for the community. SBFCA has identified this reach of levee as having priority for repair. It was explained that the State currently operates and maintains this levee through Maintenance Area 3 (MA3) and they have not expressed interest in cost sharing in repairs of this reach of levee at this time.

Mr. Bessette went onto present the reasons for advancing the project. It was reported that both of these areas are on SBFCA's critical repairs list. SBFCA has the funding to advance both projects for design/permitting, and both efforts will take at least two years to complete and be ready for construction. He explained that having two projects "shovel-ready" will increase likelihood to acquire funding for construction. This is the approach that staff believes is the most prudent to advance SBFCA's Strategic Plan

Staff recommends that the Board direct the Executive Director to negotiate task orders with the FRWLP 1 engineering design and environmental teams for the design, permitting and environmental review of the 1.6-mile Lower Feather River Phase 2 Levee Repair Project and bring those task orders back to the board for approval.

A motion to provide direction to Executive Director to negotiate task orders and then bring back to the board for approval was made by Director Charlie Hoppin and seconded by Director Mat Conant. The motion passed with no objection. The Consent Calendar was approved as follows:

- Mat Conant– yes
- Bill Connelly- yes
- Lakhvir Ghag– yes
- Shon Harris- yes
- Charlie Hoppin- Yes
- Bruce Johnson - yes
- Tod Kimmelshure- yes
- Wade Kirchner- yes
- Mike Morris - yes
- Bo Sheppard– yes
- Chris Schmidl - yes
- Drew Stresser- yes
- Mike Ziegenmeyer - yes
-

No public Comment

The entire discussion and presentation is available on the SBFCA website at:
<http://sutterbutterflood.org/board/meetings-agendas/>

INFORMATIONAL AND POSSIBLE APPROVAL ITEMS

5. Presentation and File Monthly Financial Report

Budget Manager Seth Wurzel presented the monthly financial reports for January and answered questions regarding operating revenue of advanced funding. The entire report, along with a PowerPoint presentation is available on the SBFCA website at: <http://sutterbutterflood.org/board/meetings-agendas/>

6. Presentation and File Program/Project Update

Executive Director Michael Bessette gave a presentation outlining the recent and ongoing activities of the agency. He provided an update on the Feather River West Levee Project (FRWLP). He reported that the design team continues to process encroachment permits as well as coordinating with USACE on the review and approval of the O&M manuals for the FRWLP levee improvements. Staff continues to hold monthly coordination meetings with USACE in order to advance this review and approval process. A public meeting was held at Levee District One to work with second street land owners on encroachment permits.

Mr. Bessette went on to report on the Sutter Bypass Critical Repairs. He reported that staff continues to actively pursue funding through DWR. A draft scope of work was sent to DWR for review. A meeting was scheduled last week to discuss the proposed local cost share for the project and to address comments on the scope of work.

SBFCA staff continues to coordinate with Sutter County and City of Yuba City staff regarding future FEMA accreditation and floodplain remapping. We are waiting on as-built drawings from USACE, a meeting was held yesterday. It is anticipated that SBFCA, in coordination with the City and County, will submit the 100-year accreditation package for the southern Feather River west levee to FEMA in early summer of 2022.

The entire report is available on the SBFCA website at: <http://sutterbutterflood.org/board/meetings-agendas/>

PUBLIC COMMENT

Yuba City Resident Heather Escmann provided public comment on the Sutter Bypass East Levee Project and Development Impact Fee.

ADJOURNMENT

With no further business coming before the Board, the meeting was adjourned at 1:47 p.m.

ATTEST BY: _____

Terra Yaney, Board Clerk

Board Chair



Sutter Butte Flood Control Agency

A Partnership for Flood Safety

April 20, 2022

TO: Board of Directors

FROM: Michael Bessette, Executive Director
Chris Fritz, Director of Engineering

SUBJECT: Approve an Addendum to the Agency's 5-Year Capital Budget to incorporate the Lower Feather River Phase II Levee Repair Project (LFR Phase II) and authorize the Executive Director to approve associated task orders and amendment to professional services agreements for the design and permitting of the project.

Recommendation

It is recommended that the Board of Directors approve the following:

1. An addendum to the approved 5-Year Capital Budget to incorporate a new capital program, the design and permitting of the Lower Feather River Phase II Levee Repair Project (LFR Phase II);
2. HDR Task Order 27;
3. ECORP Consulting (ECORP) Task Order 9.

Background

In August of 2011, SBFCA prepared and finalized a Pre-Design Formulation Report (PFR) for the Feather River West Levee Project. The PFR included preliminary investigations and analyses and provided alternatives and recommendations for improvements to the Feather River West Levee (FRWL) from the Feather River confluence with the Sutter Bypass to the Thermalito Afterbay. A preferred alternative was then selected, and 30% designs were prepared in 2012. The segment of the FRWL between the Sutter Bypass confluence and Highway 99 was then placed on hold as designs for other segments of the FRWL were developed and constructed.

The intent of the above recommended actions is to complete the design and permitting of the Feather River West Levee Project 2 (FRWLP2), which is the remaining segment of the FRWL needing improvement (between the Sutter Bypass confluence and Highway 99). SBFCA staff is prepared to begin work on the design and permitting of the project, and has been coordinating with HDR and ECORP to develop specific task orders for completing the work. In order for the Board to award the proposed task orders, the Board must first appropriate funds for the project by approving modifications to the current approved Capital Budget.

Requested Budget Addendum

Attachment A to this report includes a resolution for the Board's consideration approving an addendum to Exhibit 1C of the current effective budget resolution adopted by the Board on June 9, 2021 (Resolution 2021-04). Approval of the attached resolution would approve and appropriate funds for a new Capital Program (Capital – Lower Feather River Phase II Repair Project: 731-99-7072) to complete the design and permitting for the proposed project. The requested expenditure appropriations will be funded by the Capital Fund (funding consultant expenses) and transfers of budget from the Operational Fund to fund SBFCA staff time. The SBFCA staff time costs have no net budgetary impact as 100% of SBFCA staff costs have already been budgeted within the approved amended 5-Year budget.

- The total additional Expenditures budgeted within the addendum is \$1,611,345. Net impact is an increase of \$1,461,345 in expenditures for the following:
 - \$890,845 are consultant expenditures associated with HDR’s Task Order 27 for design of the project;
 - \$345,500 are consultant expenditures associated with ECORP’s Task Order 9 for environmental and permitting support;
 - \$75,000 is budgeted for application and permit fees;
 - \$150,000 is budgeted for contingency
- Additionally, there is no net impact on the final approved amended budget for the following item:
- \$150,000 is budgeted for SBFCA staff related project management and agency engineering expenditures;

In order to implement the approved scope of work, additional consultant work related to design and environmental compliance will be required. The following provides additional information regarding the requested Task Order approvals.

HDR - Task Order 27 – Engineering Services

The work outlined in HDR’s Task Order 27 includes the following activities for completing the design of FRWLP2. The HDR Team will utilize the previously prepared 30% plans including previous topographic and right-of-way information, geotechnical boring information, analyses, and recommendations for finishing the design and preparing the construction documents. HDR will perform these tasks under the direction of SBFCA’s Executive Director and Director of Engineering.

- Design Team Management
- Data Review and Site Visit
- Supplemental Geotechnical Analysis
- Design Development (preparation of the 65%, 90%, and 100% plans, specs and cost estimates)
- Preparation of Bid Documents
- Right-of-Way Support
- Team Coordination

ECORP Consulting - Task Order 9 – Environmental and Permitting Services

The work associated with ECORP’s Task Order 9 includes the efforts necessary for compliance with CEQA and for regulatory agency approval. The work consists of conducting the required baseline technical studies, preparation of the anticipated Environmental Impact Report (EIR), and preparation of the agency permit applications. As part of the work under Task Order 9 ECORP will perform the following activities:

- Preparation of the Biological Resources Assessment and Aquatic Resources Delineation Reports
- Cultural Resources AB52 Support
- Cultural Resources Inventory and Evaluation Documentation
- Section 106 National Historic Preservation Act Coordination
- Development of the Notice of Preparation and CEQA Environmental Document
- USACE Clean Water Act Section 404 Permit Support
- Application for Regional Water Quality Control Board 401 Water Quality Certification
- U.S. Fish and Wildlife Section 7 Consultation Support
- National Marine Fisheries Section 7 Consultation Support
- Application for California Department of Fish and Wildlife Incidental Take Permit

- Application for California Department of Fish and Wildlife Streambed Alteration Agreement
- Central Valley Flood Protection Board Encroachment Permit Support
- USACE 408 Permission Support

Other Services

Additional agency related services for the project will include:

- Legal review and support, as well as environmental compliance and project implementation strategy to be provided by Downey Brand under its existing operational and capital services contract.
- Project management and hydraulic engineering support to be provided by R&F Engineering (R&F) under its existing operational and capital services contract.
- Accounting and financial support to be provided by Larsen Wurzel & Associates (LWA) under its existing operational and capital services contract.

SBFCA's current contracts with Downey Brand, R&F, and LWA include scopes of work that allow the consultants to provide needed services on a time and materials basis. If it is determined that additional budget is needed to support the FRWLP2 efforts, staff will present contract amendments to augment the respective budgets in the future.

Fiscal Impact

The recommended action requests that the Board approve an addendum to the current approved Amended 5-Year Budget. The net fiscal impact of the addendum approves and appropriates a new expenditure amount of \$1,461,345.

The recommended action also requests the approval of two new task orders, one with HDR and one with ECORP Consulting. Approval of the recommended Task Orders will require that SBFCA pay the related consultant costs up to the approved Task Order limits.

Attachments:

- Attachment A: Resolution Approving an Addendum to the Capital Budget
Exhibit 1 – 2022-07: Lower Feather River Phase II Levee Repair Project (Project 731-99-7072 Budget)
- Attachment B: HDR Task Order 27 Scope and Fee
- Attachment C: ECORP Consulting Task Order 9 Scope and Fee

**SUTTER BUTTE FLOOD CONTROL AGENCY
RESOLUTION NO 2022-07**

**A RESOLUTION OF THE BOARD OF DIRECTORS OF THE SUTTER BUTTE FLOOD CONTROL
AGENCY APPROVING AN ADDENDUM TO THE "FINAL AMENDED 2020-24 BUDGET"
INCORPORATING THE LOWER FEATHER RIVER PHASE 2 LEVEE REPAIR PROJECT**

WHEREAS, the Sutter Butte Flood Control Agency ("Agency") is a Joint Powers Authority created in 2007 to plan, finance and construct levee improvements in the Sutter Basin; and

WHEREAS, the Agency's Board of Directors, after consideration of public testimony at a noticed public hearing, on June 9, 2021, adopted Resolution No. 2021-04 approving the Final Amended Budgets for fiscal years 2020-21, 2021-22, 2022-23 and 2023-24, the "Final Amended 2020-24 Budget," and

WHEREAS, after receiving information from staff regarding the Lower Feather River Phase 2 Levee Repair Project ("Project"), the Board directed the Executive Director to negotiate task orders with the FRWLP 1 engineering design and environmental teams for the design, permitting and environmental review of the 1.6-mile Lower Feather River Phase 2 Levee Repair Project and bring those task orders back to the Board for approval.

WHEREAS, the Agency's Executive Director has presented a proposal to incorporate an addendum to the Final Amended 2020-24 Budget, **Exhibit 1**, to incorporate and appropriate funds for Project.

NOW, THEREFORE, BE IT RESOLVED THAT:

- A) The above recitals are true and correct; and
- B) A new Budget Category, "Capital – Lower Feather River Phase II Levee Repair Project" is hereby established; and
- C) **Exhibit 1** attached hereto is approved and incorporated into **Exhibit 1** of Resolution 2021-04 thereby approving and appropriating funds for the Capital – Lower Feather River Phase II Levee Repair Project.

ADOPTED as a resolution of the Board of Directors of the Sutter Butte Flood Control Agency at a special meeting duly held on the 20th day of April 2022.

CHAIRMAN

APPROVED AS TO FORM:

AGENCY COUNSEL

STATE OF CALIFORNIA)
COUNTY OF SUTTER)
SUTTER BUTTE FLOOD CONTROL AGENCY)

I, Terra Yaney, Clerk of the Board of Directors of the Sutter Butte Flood Control Agency, do hereby certify that the foregoing is a true and correct copy of Resolution No. 2022-___ adopted by the Board of Directors of the Sutter Butte Flood Control Agency, California, at a special meeting thereof, held on the 20th day of April 2022 by the following vote:

AYES:

NOES:

ABSENT:

BOARD CLERK

SBFCA CAPITAL FUND - LOWER FEATHER RIVER PHASE II LEVEE REPAIR PROJECT (731-7072)
PROPOSED AMENDED 2020 THRU 2024 BUDGET - 2020-21, 2021-22, 2022-23 & 2023-24
Proposed Amended 4/20/2022

<u>Account Number</u>	<u>Line Item Description</u>	<u>FINAL 2021-22 Budget</u>	<u>FINAL 2022-23 Budget</u>	<u>FINAL 2023-24 Budget</u>	<u>Proposed 2020-24</u>	<u>Discussion</u>
Revenues:						
	Total Capital Revenues	-	-	-	-	
99-7072	Lower Feather River Phase II Levee Repair Project					
67620	Project Management [1] SBFCA Staff R&F LWA Downey Brand Overhead Other	25,000	75,000	50,000	150,000	
67621	Environmental & Permitting Support [1] ECORP TO9 Other		230,333	115,167	345,500	
67623	Design [1] HDR TO27 Other		593,897	296,948	890,845	
67624	Application & Permit Fees [1] TBD Other Contingency		50,000	25,000	75,000	
			100,000	50,000	150,000	
	Subtotal Lower Feather River Phase II Levee Repair Project Related Expenses	25,000	1,049,230	537,115	1,611,345	
	Sub-Total Professional Services	25,000	1,049,230	537,115	1,611,345	
	Tools, Supplies & Equip. < \$5,000					
	Sub-Total Materials, Supplies & Services	25,000	1,049,230	537,115	1,611,345	
	Equipment					
	Sub-Total Capital/Small Equipment Items					
	Sub-Total-Soft Costs					
	Sub-Total-Projects	-	-	-	-	
	Total Capital Expenditures	25,000	1,049,230	537,115	1,611,345	
	Transfer in fm Oper Fd to Support Capital Soft Costs					
	Transfer out to Support Operations					
	Transfer in fm EIP to Support Capital Costs					
	Capital Revenues Over <Under> Expenditures	25,000	1,049,230	537,115	1,611,345	
	Working Capital - Beginning of Period	-	(25,000)	(1,074,230)	-	
	Working Capital - End of Period	(25,000)	(1,074,230)	(1,611,345)	(1,611,345)	
	Variance	(25,000)	(1,049,230)	(537,115)	(1,611,345)	

[1] Subitems listed below each account are descriptive of the types of costs expected to be incurred.



March 31, 2022

Michael Bessette
Sutter Butte Flood Control Agency
Via email: m.bessette@sutterbutteflood.org

RE: Scope and Fee Estimate for Engineering Services for Task Order 27 Feather River West Levee Project 2 – Sutter Bypass to Highway 99 Analysis and Design

Dear Mr. Bessette,

The HDR Team prepared and finalized a Pre-Design Formulation Report (PFR) in August of 2011. The PFR included preliminary investigations and analyses and provided alternatives and recommendations for improvements to the Feather River West Levee (FRWL) from the Feather River confluence with the Sutter Bypass (Station 10+00) to the Thermalito Afterbay (Station 2368+26). A preferred alternative was then selected, and 30% designs were prepared in 2012. The segment of the FRWL between Station 10+00 and approximate Station 100+00, near State Route (SR) 99 (southern end of a USACE PL84-99 Project), was then placed on hold as designs for other segments of the FRWL were developed and constructed.

Sutter Butte Flood Control Agency (SBFCA) now wishes to progress design of the remaining segment of the FRWL. In support of this, the HDR Team has prepared the following scope and fee for supplemental analysis and design for the portion of the FRWL between Station 10+00 and approximate Station 100+00.

This scope assumes that improvements will be prepared consistent with the recommendation in the PFR, which identified cutoff walls as the preferred levee remediation alternative.

Scope of Work

The work outlined in this scope has been divided into tasks in accordance with the work break down structure shown below and in the attached fee summary. The work outlined in this scope includes activities that fall within the following tasks:

- Project Management
- Data Review and Site Visit
- Supplemental Geotechnical Analysis
- Design Development
- Right-of-Way Support
- Team Coordination

2 – Project Management

HDR's project manager will manage the contract scope, schedule, and budget for this Task Order. Project management will also occur at the task level by each team lead and by subconsultants to accomplish the various aspects of the work outlined below. HDR will document Quality Control reviews and track the status of the reviews of key deliverables.

HDR's project manager will also participate in weekly design management meetings with SBFCA, provide status updates, note any issues or concerns, coordinate with SBFCA as needed.

HDR will prepare monthly invoices and document project activities by task and team progress.

Assumptions:

- Work will be completed by February 2023.
- HDR's project manager will follow the existing Project Management Plan for other SBFCA FRWL project Task Orders.

Deliverables:

- Invoices and progress reports.
- Agendas and notes for design management meetings.

2 – Data Review and Site Visit

The HDR Team will compile previously collected data for this segment of the FRWL including previous topographic and right-of-way information, geotechnical boring information, analysis, recommendations, and other information pertinent to the design. This information will be utilized for supplemental analyses and development of designs and construction documents.

The HDR Team will also conduct a site visit to assess field conditions and note any changes to the levee and surrounding areas since the PFR was prepared.

Assumptions:

- A one-day site visit to include up to four HDR Team members.

Deliverables:

- Field notes highlighting any changes that may impact the recommendations made in the PFR, if applicable.
- Site photos, if requested.

3 – Supplemental Geotechnical Analysis

Following the site visit and a review of existing geotechnical information, the HDR Team will assess additional subsurface exploration data needed for analysis and design and will prepare a field

investigation plan and Drilling Program Plan (DPP). Following approval of the DPP, the HDR Team will complete field investigation and laboratory testing and prepare a Geotechnical Data Report.

The HDR Team will update existing plan and profile (PNP) sheets with the latest subsurface information and develop longitudinal profiles along the alignment. The updated PNP sheets will be used to identify reaches and critical cross sections for analysis. Geotechnical analysis of existing conditions will be conducted in accordance with industry standards to assess compliance with through-seepage, underseepage, stability, and rapid drawdown criteria. The results of the existing conditions analysis will be reviewed, and appropriate upgrading works proposed for review and selection by the HDR Team. Analysis of upgraded conditions will be performed to demonstrate compliance with design criteria. A Geotechnical Evaluation Report will be prepared addressing past performance issues and presenting the results of analysis and recommended upgrading works.

Assumptions:

- An additional 13 explorations will be required to meet industry standards for spacing of explorations for design purposes.
- Three geotechnical analysis cross sections will be analyzed as part of the Geotechnical Evaluation Report.

Deliverables:

- Draft and Final Geotechnical Data Report (PDF).
- Draft and Final Geotechnical Evaluation Report (PDF).

4 – Design Development

4.1 – 65% Design

A 65% design submittal will be prepared that includes the plans, specifications, Basis of Design Report (BODR), and Opinion of Probable Construction Costs (OPCC).

The 65% plans will show the general layouts and configurations of the existing levee and planned improvements identified in the PFR and refined under Task 3 above (anticipated to be cutoff walls). Additionally, the Hamatani Ranch pipe crossing (two 18-inch and one 20-inch pipes) crosses the levee at station 52+24.96 and will be removed and replaced as a part of this project.

The following types of sheets are anticipated at the 65% submittal stage:

- General sheets including title, sheet index, site layout, survey, construction limit, and access.
- Plan and profile sheets depicting levee improvements.
- Typical details sheets.
- Cutoff wall profile sheets.

- Levee sections sheets.
- Utilities plan sheets and typical details.

Technical specifications will be prepared in support of the 65% design and will include all applicable Division 1 and above specification sections. Specifications will be prepared following UFGS format and be consistent with previous design packages prepared for other segments of the FRWL. SBFCA General Provision will be used as the front-end specifications.

A 65% BODR will be prepared and include project background and purpose, summary of design criteria, engineering standards, and guides used for development of designs, summary of existing penetrations and encroachments impacted by design, borrow approach discussion, and summary of quantities calculations.

A 65% OPCC will be prepared as a part of this task. Quantity take-off calculations and cost estimates will be prepared in a Microsoft Excel spreadsheet and based on the 65% designs.

The 65% Design package will be submitted for concurrent review by SBFCA and stakeholders.

Assumptions:

- Previously prepared plans for this segment of the FRWL will be utilized to supplement and support development of the 65% plans prepared as a part of this task.
- One set of plans will be prepared for all improvements.
- Development of designs and plans for modification to SR 99, bridge, and abutment are not anticipated nor included.
- Development of a borrow-specific plans is not anticipated nor included. Identification of a borrow source will be a construction contract requirement.
- The 65% specifications will not include SBFCA Standard Forms nor Bid Proposal Form. These forms will be provided at the 90% submittal stage.
- The 65% OPCC will include contingency consistent with AACE No. 18R-97.
- Stakeholder review is anticipated to include USACE, DWR, and the CVFPB. HDR will coordinate routing for reviews with SBFCA.

Deliverables:

- 65% Plans, Specifications, BODR, and OPCC (PDFs).

4.2 – 90% Design

A 90% Design submittal will be prepared that includes the plans, specifications, BODR, and OPCC. The 90% Design submittal will build upon designs prepared as a part of Task 4.1 and address applicable comments received on the 65% Design submittal.

The 90% Design submittal will include applicable plan sheets, General and Technical Specifications, Supplemental Conditions, and SBFCA Standard and Proposal forms. The BODR and OPCC will be updated to the 90% level.

The 90% Design package will be submitted for concurrent review by SBFCA and stakeholders.

Assumptions:

- Assumptions outlined for Task 4.1 are applicable to this task.

Deliverables:

- 90% Plans, Specifications, BODR, and OPCC (PDF).
- Geotechnical Data Report (PDF) – Prepared as part of Task 3.

4.3 – 100% Design

A 100% Design submittal will be prepared that includes the plans, specifications, BODR, and OPCC. The 100% Design submittal will build upon designs prepared as a part of Task 4.2 and address applicable comments received on the 90% Design submittal.

The 100% Design submittal will include all applicable plans sheets, General and Technical Specifications, Supplemental Conditions, and SBFCA Standard and Proposal forms. The BODR and OPCC will be updated to the 100% level.

The 100% submittal is anticipated to be a final submittal for closeout of review comments and will be submitted to SBFCA and stakeholders.

Assumptions:

- Assumptions outlined for Task 4.1 are applicable to this task.

Deliverables:

- 100% Plans, Specifications, BODR, and OPCC (PDF).
- Geotechnical Data Report (PDF) – Prepared as part of Task 3.

4.4 – Bid Documents

The HDR Team will prepare Bid Documents after closeout of 100% Design submittal review comments. This submittal will include bid-ready plans, complete specifications, and a final OPCC.

This submittal will be provided to SBFCA for the purpose of soliciting bids from construction contractors.

Assumptions:

- Assumptions outlined for Task 4.1 are applicable to this task.
- A BODR submittal is not required at this submittal stage.

Deliverables:

- Bid-ready Plans and Specifications including Geotechnical Data Report (PDF).
- Final OPCC (PDF).

4.5 – Project Description

HDR will prepare a Project Description identifying levee improvements, approximate project work limits, anticipated construction equipment that may be used, approximate material quantities, and estimated truck trips to and from points of uses and to the project site. The Project Description will be provided for SBFCA team review and use in developing supporting environmental documentation.

Assumptions:

- Air quality calculations will be performed by others.
- The Project Description will be prepared concurrent with the development of 65% designs. As such, HDR will use the best available information, in coordination with the SBFCA team, to prepare the Project Description.
- Up to four 2-hour coordination meetings with SBFCA and the environmental team. Meetings will be attended by up to two HDR Team members.

Deliverables:

- Project Description (PDF).
- Construction Limits (DWG).

4.6 – Bid Support

HDR will support SBFCA during the bid phase of this project including responding to technical questions submitted by potential bidders and preparing/providing addenda when appropriate. The HDR team will attend a pre-bid conference at the request of SBFCA.

Assumptions:

- One 2-hour Pre-bid conference attended by up to three HDR Team members.
- Up to two addenda will be required during the bid phase. Addenda would include revisions to appropriate plan sheets, specifications, and an addendum tracking form.

Deliverables:

- Up to two addenda.

5 – Right-of-Way Support

5.1 – Base Map Preparation

The HDR Team will update previously developed survey information, such as record maps and surveys, vesting deeds and easement documents, and information contained in preliminary title reports (to be updated by SBFCA). It has been approximately 10 years since an initial base map was prepared for this area. This record information, along with field-located information to include survey monuments and boundary evidence, will be used to generate a LandNET reflecting the position of the temporary acquisitions and property boundary lines within the Project Area. Temporary easement acquisition lines will also be included on the base mapping.

LandNET packages are not anticipated to require Geodetic Branch approval.

Assumptions:

- Seven parcels will be mapped from APN 25-27 and APN 25-29-15 through APN 25-29-17-53 through APN 25-17-57.

Deliverables:

- Updated Base Map with Temporary Easement Lines.

5.2 – Prepare Plats and Legal Descriptions

The HDR Team will prepare a Plat and Legal Description for each parcel for which temporary easements are required to complete the work.

Assumptions:

- Plats and Legal Descriptions will be prepared for seven parcels located at APN 25-27 and APN 25-29-15 through APN 25-29-17-53 and through APN 25-17-57.

Deliverables:

- Plat and Legal Descriptions for seven parcels.

5.3 – ROW Team Coordination

The HDR Team will coordinate with the SBFCA ROW team to facilitate acquisition of temporary easements in support of the project.

Assumptions:

- Coordination is anticipated to occur via a combination of phone conferences and in person meetings as needed and as requested by the SBFCA ROW team.
- No new field surveys are anticipated as part of this task.

Deliverables:

- None.

6 – Team Coordination

The HDR team will coordinate with other members of the SBFCA team (including environmental and other SBFCA consultants) as needed and as directed by SBFCA to discuss design issues, meet program needs, and to help facilitate project approvals. Additionally, the HDR team will coordinate with agencies (USACE and DWR) as needed and as directed by SBFCA to discuss design issues, meet program needs, and to help facilitate project approvals.

Assumptions:

- A Central Valley Flood Protection Board permit application is not included in this effort.
- Up to eight 4-hour meetings attended by up to three HDR Team members.

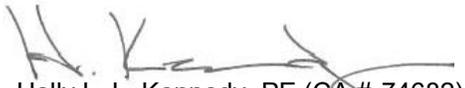
Deliverables:

- Meeting notes.

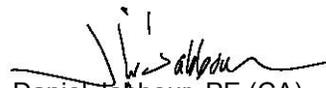
Fee Estimate

Attached please find HDR's fee estimate for the scope of work described herein for Task Order 27.

Sincerely,
HDR Engineering, Inc.



Holly L. L. Kennedy, PE (CA # 74682)
Senior Vice President



Daniel Jabbour, PE (CA)
Project Manager

HDR Engineering Inc.

Task Order 27

Feather River West Levee Project 2

This Task Order is associated with the Master Agreement between the Sutter Butte Flood Control Agency and HDR Engineering Inc., dated July 14, 2010.

Scope of Work

See attached scope dated March 31, 2022.

Schedule

The assumed schedule is included in the scope referenced above.

Budget

The budget for this amendment is not-to-exceed \$890,845 based on the provisions of the Master Agreement. An assumed breakdown of work effort is provided in the attached Fee Summary table dated March 31, 2022.

Special Provisions

None

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be duly executed as of the day and year first written above.

SUTTER BUTTE FLOOD CONTROL AGENCY

HDR ENGINEERING INC.

By: _____

By: _____

DATED: _____

DATED: _____

**FEATHER RIVER WEST LEVEE PROJECT 2
ANALYSIS DESIGN - STA 10+00 to STA 100+00
TOTAL FEE SUMMARY - TASK ORDER 27**

No.	Task Description	HDR	AECOM	WR	MHM	Total Costs
Engineering and Closeout						
1 Project Management						
1.1	Project Management, Invoicing, and Progress Reports	\$ 38,487	\$ 28,203	\$ 8,726	\$ 5,292	\$ 80,707
		\$ -	\$ -	\$ -	\$ 5,462	\$ 5,462
	Subtotal Project Management	\$ 38,487	\$ 28,203	\$ 8,726	\$ 10,754	\$ 86,170
2 Data Review and Site Visit						
2.1	Data Review and Site Visit	\$ 4,188	\$ 13,865	\$ -	\$ 5,166	\$ 23,219
	Subtotal Data Review and Site Visit	\$ 4,188	\$ 13,865	\$ -	\$ 5,166	\$ 23,219
3 Supplemental Geotechnical Analyses						
3.1	Prepare Drilling Program Plan	\$ -	\$ 11,234	\$ -	\$ -	\$ 11,234
3.2	Additional Explorations and Laboratory Testing	\$ -	\$ 17,378	\$ -	\$ -	\$ 17,378
3.3	Geotechnical Data Report	\$ -	\$ 33,822	\$ -	\$ -	\$ 33,822
3.4	Geotechnical Analysis and Evaluation	\$ -	\$ 33,822	\$ -	\$ -	\$ 33,822
3.5	Geotechnical Evaluation Report	\$ -	\$ 28,940	\$ -	\$ -	\$ 28,940
	Subtotal Supplemental Geotechnical Analyses	\$ -	\$ 183,752	\$ -	\$ -	\$ 183,752
4 Design Development						
4.1	65% Design	\$ 98,231	\$ 17,794	\$ -	\$ 18,992	\$ 135,017
4.2	90% Design	\$ 118,488	\$ 17,794	\$ -	\$ 11,598	\$ 147,880
4.3	100% Design	\$ 85,502	\$ 7,595	\$ -	\$ 7,965	\$ 101,062
4.4	Bid Documents	\$ 21,927	\$ 7,595	\$ -	\$ 4,843	\$ 34,365
4.5	Project Description	\$ 17,023	\$ -	\$ -	\$ 1,722	\$ 18,745
4.6	Bid Support	\$ 22,409	\$ 17,794	\$ -	\$ 4,847	\$ 45,049
		\$ -	\$ -	\$ -	\$ -	\$ -
	Subtotal Design Development	\$ 363,579	\$ 68,571	\$ -	\$ 49,967	\$ 482,117
5 Right-of-Way Support						
5.1	Develop Base Map	\$ -	\$ -	\$ 48,905	\$ -	\$ 48,905
5.2	Prepare Plats and Legal Descriptions	\$ -	\$ -	\$ 17,866	\$ -	\$ 17,866
5.3	ROW Team Coordination	\$ 5,321	\$ -	\$ 8,622	\$ 4,082	\$ 18,025
	Subtotal Right-of-Way Support	\$ 5,321	\$ -	\$ 75,392	\$ 4,082	\$ 84,796
6 Team Coordination						
6.1	Team Coordination	\$ 13,303	\$ -	\$ -	\$ 6,124	\$ 19,426
		\$ -	\$ -	\$ -	\$ -	\$ -
	Subtotal Team Coordination	\$ 13,303	\$ -	\$ -	\$ 6,124	\$ 19,426
	Subconsultant Markup (2.5%)					\$11,365
	Subtotal Effort	\$424,878	\$294,391	\$84,118	\$76,094	\$879,480
	Subtotal Effort w/ Sub Markup	\$436,243	\$294,391	\$84,118	\$76,094	\$890,845

**FEATHER RIVER WEST LEVEE PROJECT 2
ANALYSIS DESIGN - STA 10+00 to STA 100+00
HDR FEE - TASK ORDER 27**

No.	Task Description	Labor											Acct	Clerical	Total Hours	Total Labor (\$)	Expenses	Total	
		E7	E6	E5	E4	E3	E2	E1	T4	T3	T2	T1							
	Rates	307.93	254.41	229.63	203.56	160.49	137.00	116.13	151.36	131.79	121.33	92.64	137.00	116.13				8%	
Engineering and Closeout																			
1	Project Management																		
1.1	Project Management, Invoicing, and Progress Reports	96											24	24	144	\$ 35,636	\$ 2,850.91	\$ 38,487	
	Subtotal Project Management	96	0	0	0	0	0	0	0	0	0	0	24	24	144	\$ 35,636	\$ 2,851	\$ 38,487	
2	Data Review and Site Visit																		
2.1	Data Review and Site Visit	4	4		8										16	\$ 3,878	\$ 310	\$ 4,188	
	Subtotal Data Review and Site Visit	4	4	0	8	0	0	0	0	0	0	0	0	0	16	\$ 3,878	\$ 310	\$ 4,188	
3	Supplemental Geotechnical Analyses																		
3.1	Prepare Drilling Program Plan														0	\$ -	\$ -	\$ -	
3.2	Additional Explorations and Laboratory Testing														0	\$ -	\$ -	\$ -	
3.3	Geotechnical Data Report														0	\$ -	\$ -	\$ -	
3.4	Geotechnical Analysis and Evaluation														0	\$ -	\$ -	\$ -	
3.5	Geotechnical Evaluation Report														0	\$ -	\$ -	\$ -	
	Subtotal Supplemental Geotechnical Analyses	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$ -	\$ -	\$ -	
4	Design Development																		
4.1	65% Design	80	80		100					160				12	432	\$ 90,954	\$ 7,276	\$ 98,231	
4.2	90% Design	80	140		100					180				16	516	\$ 109,711	\$ 8,777	\$ 118,488	
4.3	100% Design	80	100		40					120				24	364	\$ 79,168	\$ 6,333	\$ 85,502	
4.4	Bid Documents	24			20					40				24	108	\$ 20,303	\$ 1,624	\$ 21,927	
4.5	Project Description	40			8					12					60	\$ 15,762	\$ 1,261	\$ 17,023	
4.6	Bid Support	30	18		16					12				16	92	\$ 20,749	\$ 1,660	\$ 22,409	
	Subtotal Design Development	334	338	0	284	0	0	0	524	0	0	0	0	92	1,572	\$ 336,647	\$ 26,932	\$ 363,579	
5	Right-of-Way Support																		
5.1	Develop Base Map														0	\$ -	\$ -	\$ -	
5.2	Prepare Plats and Legal Descriptions														0	\$ -	\$ -	\$ -	
5.3	ROW Team Coordination	16													16	\$ 4,927	\$ 394	\$ 5,321	
	Subtotal Right-of-Way Support	16	0	0	0	0	0	0	0	0	0	0	0	0	16	\$ 4,927	\$ 394	\$ 5,321	
6	Team Coordination																		
6.1	Team Coordination	40													40	\$ 12,317	\$ 985	\$ 13,303	
	Subtotal Team Coordination	40	0	0	0	0	0	0	0	0	0	0	0	0	40	\$ 12,317	\$ 985	\$ 13,303	
TOTAL EFFORT		490	342	0	292	0	0	0	524	0	0	0	24	116	1,788	\$ 393,405	\$ 31,472	\$ 424,878	

**FEATHER RIVER WEST LEVEE PROJECT 2
ANALYSIS DESIGN - STA 10+00 to STA 100+00
AECOM FEE - TASK ORDER 27**

No.	Task Description	Labor											Acct	Clerical	Total Hours	Total Labor (\$)	Expenses	Total	
		E7	E6	E5	E4	E3	E2	E1	T4	T3	T2	T1							
	Rates	298.35	221.78	201.51	161.97	141.58	124.00	116.48	140.96	119.50	100.85	72.61	121.97	93.74				5%	
Engineering and Closeout																			
1	Project Management																		
1.1	Project Management, Invoicing, and Progress Reports	70											60			130	\$ 28,203	\$ -	\$ 28,203
	Subtotal Project Management	70	0	0	0	0	0	0	0	0	0	0	60	0		130	\$ 28,203	\$ -	\$ 28,203
2	Data Review and Site Visit																		
2.1	Data Review and Site Visit	20			20			40								80	\$ 13,865	\$ -	\$ 13,865
	Subtotal Data Review and Site Visit	20	0	0	20	0	0	40	0	0	0	0	0	0		80	\$ 13,865	\$ -	\$ 13,865
3	Supplemental Geotechnical Analyses																		
3.1	Prepare Drilling Program Plan	8			24		40									72	\$ 11,234	\$ -	\$ 11,234
3.2	Additional Explorations and Laboratory Testing	8			16		100									124	\$ 17,378	\$ 75,000	\$ 92,378
3.3	Geotechnical Data Report	8			16		100									124	\$ 17,378	\$ -	\$ 17,378
3.4	Geotechnical Analysis and Evaluation	24		48		120										192	\$ 33,822	\$ -	\$ 33,822
3.5	Geotechnical Evaluation Report	16		40		80				40						176	\$ 28,940	\$ -	\$ 28,940
	Subtotal Supplemental Geotechnical Analyses	64	0	88	56	200	240	0	0	40	0	0	0	0		688	\$ 108,752	\$ 75,000	\$ 183,752
4	Design Development																		
4.1	65% Design	16		40		40										96	\$ 17,794	\$ -	\$ 17,794
4.2	90% Design	16		40		40										96	\$ 17,794	\$ -	\$ 17,794
4.3	100% Design	8		16		16										40	\$ 7,595	\$ -	\$ 7,595
4.4	Bid Documents	8		16		16										40	\$ 7,595	\$ -	\$ 7,595
4.5	Project Description															0	\$ -	\$ -	\$ -
4.6	Bid Support	16		40		40										96	\$ 17,794	\$ -	\$ 17,794
	Subtotal Design Development	64	0	152	0	0	152	0	0	0	0	0	0	0		368	\$ 68,571	\$ -	\$ 68,571
5	Right-of-Way Support																		
5.1	Develop Base Map															0	\$ -	\$ -	\$ -
5.2	Prepare Plats and Legal Descriptions															0	\$ -	\$ -	\$ -
5.3	ROW Team Coordination															0	\$ -	\$ -	\$ -
	Subtotal Geotechnical Support Services	0	0	0	0	0	0	0	0	0	0	0	0	0		0	\$ -	\$ -	\$ -
6	Team Coordination																		
6.1	Team Coordination															0	\$ -	\$ -	\$ -
	Subtotal Team Coordination															0	\$ -	\$ -	\$ -
	TOTAL EFFORT	218	0	240	76	200	392	40	0	40	0	0	60	0		1,266	\$ 219,391	\$ 75,000	\$ 294,391

**FEATHER RIVER WEST LEVEE PROJECT 2
ANALYSIS DESIGN - STA 10+00 to STA 100+00
WR FEE - TASK ORDER 27**

No.	Task Description	Labor												Acct	Clerical	Total Hours	Total Labor (\$)	Expenses	Total		
		E7	E6	E5	E4	E3	E2	E1	T4	T3	T2	T1	Survey								
	Rates	266.02	234.36	221.69	209.02	190.01	164.69	152.01	145.67	126.68	101.34	82.83	320.00	120.33	95.01			2.5%			
Engineering and Closeout																					
1	Project Management																				
1.1	Project Management, Invoicing, and Progress Reports	12		24														36	\$ 8,513	\$ 213	\$ 8,726
	Subtotal Project Management	12	0	24	0	0	0	0	0	0	0	0	0	0	0	0	0	36	\$ 8,513	\$ 213	\$ 8,726
2	Data Review and Site Visit																				
2.1	Data Review and Site Visit																	0	\$ -	\$ -	\$ -
	Subtotal Data Review and Site Visit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$ -	\$ -	\$ -
3	Supplemental Geotechnical Analyses																				
3.1	Prepare Drilling Program Plan																	0	\$ -	\$ -	\$ -
3.2	Additional Explorations and Laboratory Testing																	0	\$ -	\$ -	\$ -
3.3	Geotechnical Data Report																	0	\$ -	\$ -	\$ -
3.4	Geotechnical Analysis and Evaluation																	0	\$ -	\$ -	\$ -
3.5	Geotechnical Evaluation Report																	0	\$ -	\$ -	\$ -
	Subtotal Supplemental Geotechnical Analyses	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$ -	\$ -	\$ -
4	Design Development																				
4.1	65% Design																	0	\$ -	\$ -	\$ -
4.2	90% Design																	0	\$ -	\$ -	\$ -
4.3	100% Design																	0	\$ -	\$ -	\$ -
4.4	Bid Documents																	0	\$ -	\$ -	\$ -
4.5	Project Description																	0	\$ -	\$ -	\$ -
4.6	Bid Support																	0	\$ -	\$ -	\$ -
	Subtotal Design Development	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$ -	\$ -	\$ -
5	Right-of-Way Support																				
5.1	Develop Base Map		16		40	120												40	\$ 47,712	\$ 1,193	\$ 48,905
5.2	Prepare Plats and Legal Descriptions		4		28	56												88	\$ 17,431	\$ 436	\$ 17,866
5.3	ROW Team Coordination	4		16		20												40	\$ 8,411	\$ 210	\$ 8,622
	Subtotal Right-of-Way Support	4	20	16	68	196	0	0	0	0	0	0	40	0	0			344	\$ 73,554	\$ 1,839	\$ 75,392
6	Team Coordination																				
6.1	Team Coordination																	0	\$ -	\$ -	\$ -
	Subtotal Team Coordination	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$ -	\$ -	\$ -
TOTAL EFFORT		16	20	40	68	196	0	0	0	0	0	0	40	0	0			380	\$ 82,066	\$ 2,052	\$ 84,118

**FEATHER RIVER WEST LEVEE PROJECT 2
ANALYSIS DESIGN - STA 10+00 to STA 100+00
MHM FEE - TASK ORDER 27**

No.	Task Description	Labor											Acct	Clerical	Total Hours	Total Labor (\$)	Expenses	Total			
		E7	E6	E5	E4	E3	E2	E1	T4	T3	T2	T1									
	Rates	243.00	201.00	180.00	167.00	160.00	139.00	132.00	139.00	125.00	111.00	97.00	138.00	111.00				5%			
Engineering and Closeout																					
1	Project Management																				
1.1	Project Management, Invoicing, and Progress Reports	18															6	24	\$ 5,040	\$ 252	\$ 5,292
		18															6	24	\$ 5,202	\$ 260	\$ 5,462
	Subtotal Project Management	36	0	0	0	0	0	0	0	0	0	0	6	6			48	\$ 10,242	\$ 512	\$ 10,754	
2	Data Review and Site Visit																				
2.1	Data Review and Site Visit	12			12													24	\$ 4,920	\$ 246	\$ 5,166
																		0	\$ -	\$ -	\$ -
	Subtotal Data Review and Site Visit	12	0	0	12	0	0	0	0	0	0	0	0	0			24	\$ 4,920	\$ 246	\$ 5,166	
3	Supplemental Geotechnical Analyses																				
3.1	Prepare Drilling Program Plan																	0	\$ -	\$ -	\$ -
3.2	Additional Explorations and Laboratory Testing																	0	\$ -	\$ -	\$ -
3.3	Geotechnical Data Report																	0	\$ -	\$ -	\$ -
3.4	Geotechnical Analysis and Evaluation																	0	\$ -	\$ -	\$ -
3.5	Geotechnical Evaluation Report																	0	\$ -	\$ -	\$ -
	Subtotal Supplemental Geotechnical Analyses	0	0	0	0	0	0	0	0	0	0	0	0	0			0	\$ -	\$ -	\$ -	
4	Design Development																				
4.1	65% Design	36	12		32			12										92	\$ 18,088	\$ 904	\$ 18,992
4.2	90% Design	18	8		24			8										58	\$ 11,046	\$ 552	\$ 11,598
4.3	100% Design	12	6		16			6										40	\$ 7,586	\$ 379	\$ 7,965
4.4	Bid Documents	8	4		8			4										24	\$ 4,612	\$ 231	\$ 4,843
4.5	Project Description	4			4													8	\$ 1,640	\$ 82	\$ 1,722
4.6	Bid Support	8			16													24	\$ 4,616	\$ 231	\$ 4,847
																		0	\$ -	\$ -	\$ -
	Subtotal Design Development	86	30	0	100	0	0	30	0	0	0	0	0	0			246	\$ 47,588	\$ 2,379	\$ 49,967	
5	Right-of-Way Support																				
5.1	Develop Base Map																	0	\$ -	\$ -	\$ -
5.2	Prepare Plats and Legal Descriptions																	0	\$ -	\$ -	\$ -
5.3	ROW Team Coordination																	16	\$ 3,888	\$ 194	\$ 4,082
	Subtotal Right-of-Way Support	16	0	0	0	0	0	0	0	0	0	0	0	0			16	\$ 3,888	\$ 194	\$ 4,082	
6	Team Coordination																				
6.1	Team Coordination	24																24	\$ 5,832	\$ 292	\$ 6,124
																		0	\$ -	\$ -	\$ -
																		0	\$ -	\$ -	\$ -
	Subtotal Team Coordination	24	0	0	0	0	0	0	0	0	0	0	0	0			24	\$ 5,832	\$ 292	\$ 6,124	
TOTAL EFFORT		174	30	0	112	0	0	30	0	0	0	0	6	6			358	\$ 72,470	\$ 3,624	\$ 76,094	

ECORP Consulting, Inc.

Task Order 9

SCOPE OF WORK

Feather River West Levee – Highway 99 to Sutter Bypass Project

Baseline Studies, Environmental Review, and Permitting

This task order is associated with the Master Agreement between the Sutter Butte Flood Control Agency (SBFCA) and ECORP Consulting, Inc. (Consultant). Below is a scope of work and estimated costs for the Feather River West Levee – Highway 99 to Sutter Bypass Project to remediate the remaining section of the west levee from Highway 99 to the Sutter Bypass. This scope covers anticipated efforts necessary to conduct baseline technical studies, prepare environmental documents, and prepare agency permit applications. The tasks below can be authorized wholly, or individually, as project requirements dictate. Each task's scope and/or budget may also be modified to reflect the required effort up to the total maximum authorized amount.

ASSUMPTIONS AND UNCERTAINTIES

The Consultant has made the following assumptions in developing the scope of work.

- The Project Study Area is defined as approximately 1.75 miles of the Feather River west levee from Highway 99 to the confluence with the Sutter Bypass. The Project Study Area includes a 100-foot buffer from the crown of the levee on either side of the levee (land and waterside). Additional survey buffers may be added depending on the surveys conducted and will be included in the survey assumptions described in the full scope of work.
- SBFCA will provide Consultant with the selected locations and alternatives for CEQA review prior to initiating the CEQA document, and no changes to the project description will occur after the initiation of the CEQA process without a contract change order, if necessary.
- Documentation from the Feather River West Levee Project (FRWLP) may be used as reference; however, this scope assumes standalone documentation will be prepared.
- All staging and access will occur within the Project Study Area.
- Does not include evaluation/permitting of any stockpile/borrow locations, haul routes, or staging areas outside of the Project Study Area.
- The extent of tribal involvement during environmental review and permitting cannot be anticipated at this time.

- Does not include implementation of permit conditions or mitigation measures during construction, such as preconstruction surveys, monitoring, or other mitigation.

TASK 1 – BIOLOGICAL RESOURCES TECHNICAL STUDIES

1.1 Biological Resources Assessment

Consultant will prepare a Biological Resources Assessment (BRA) for the Study Area. Consultant will conduct a review of existing biological information in the region and documentation specific to the project, including a literature review. The literature review will include available information including aerial photography and database queries of the California Department of Fish and Wildlife (CDFW) California Natural Diversity Database (CNDDDB), California Native Plant Society (CNPS), U.S. Fish and Wildlife Service (USFWS), and National Marine Fisheries Services (NMFS) for potentially occurring special-status species in the vicinity of the Study Area. Consultant will conduct a pedestrian field reconnaissance concurrent with Task 1.2 (Aquatic Resource Delineation) to assess the onsite existing biological resources/constraints. As part of the BRA survey, the following will be conducted:

- Giant Garter Snake Habitat Assessment for the Study Area and 200-foot buffer;
- Valley Elderberry Longhorn Beetle (VELB) Habitat Assessment (elderberry shrub survey) for the Study Area and 165-foot buffer; and
- Yellow-billed Cuckoo Habitat Assessment for the Study Area and 500-foot buffer.

A summary of the findings will be incorporated into the BRA report, with potential Waters of the U.S. (see Task 1.2), results of the habitat assessments, and special status species data. The report will provide the regulatory context, which is also necessary for incorporation into the California Environmental Quality Act (CEQA) review document, as well as the methods, results, and recommendations for appropriate findings and mitigation measures. The report will also indicate any further studies that may be required to support the CEQA document, based on the outcome of the inventory.

Assumptions:

- This BRA does not include determinate-level surveys in accordance with Agency-approved special-status species' survey protocols.
- This scope of work includes a maximum of one round of revisions to the draft BRA report following client review.

1.2 Aquatic Resources Delineation to Support Clean Water Act Permitting

An aquatic resources delineation will be conducted for the Study Area in accordance with the Corps of Engineers Wetlands Delineation Manual (Environmental Laboratory 1987), Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region, Version 2.0 (U.S. Army Corps of Engineers 2008), U.S. Army Corps of Engineers Sacramento District's Minimum Standards for Acceptance of Aquatic Resources Delineation Reports (U.S. Army Corps of Engineers 2016). Potential Waters of the

U.S., including wetlands, will be mapped in the field using a global positioning system (GPS) unit capable of submeter accuracy (e.g., Trimble GeoXT) and/or georectified aerial photography.

The aquatic resources delineation will be conducted under current field conditions. This cost estimate is based upon the assumption that the "routine" aquatic resources delineation methods are utilized and that site conditions are of relatively unaltered terrain that has not been recently farmed, tilled, irrigated, leveled, denuded, treated with herbicide, or other significant land alteration. If the site has been altered to the extent that "routine" methodology is no longer applicable, a change order agreement will be prepared.

This aquatic resources delineation does not evaluate onsite aquatic features pursuant to guidance provided by U.S. Army Corps of Engineers (USACE) and the Environmental Protection Agency (EPA) following the Supreme Court's decision in the consolidated cases of *Rapanos v. United States* and *Carabell v. United States*. If the client requests a Rapanos Evaluation, an additional cost estimate will be prepared. A Rapanos Evaluation is conducted by the USACE whenever the applicant requests an Approved Jurisdictional Determination. Approved Jurisdictional Determinations are typically requested only when features not subject to USACE jurisdiction ("isolated") are identified on-site. Although the Rapanos Evaluation is conducted by the USACE, the applicant (or the applicant's agent) is frequently asked to provide information for this evaluation to expedite the review.

Assumptions:

- A report and delineation map of the findings will be submitted to the client and will include a description of existing site conditions, field methods, and aquatic resources identified onsite.
- This scope of work includes a maximum of one round of revisions to the draft Aquatic Resources Delineation following client review. Upon approval from the client, the report and map may be submitted to the USACE for verification, if requested.
- This scope of work does not include requests for additional information, revisions to the report or map nor a site visit with the USACE, if requested by USACE.

TASK 2 CULTURAL RESOURCES AND TRIBAL CONSULTATION

2.1 AB 52 Support to Support CEQA

The Consultant's cultural resources staff will assist SBFCA in consulting with California Native American tribes under Assembly Bill 52 (AB 52). Consultant will draft all notification and consultation letters, coordinate tribal meetings, maintain the AB 52 administrative record, provide technical support in determining whether or not Tribal Cultural Resources will be significantly impacted by the project, and will review the Tribal Cultural Resources sections for CEQA documents. Consultant will document the consultation process and comments discussed and advise the lead agency on how to come to a conclusion to the consultation, as specified by AB 52.

Assumptions:

- This cost estimate is provided on a time and materials, “best efforts” basis. If the consultation requests from the tribes will require more effort that will exceed the budget provided herein, then a contract change order would be required to complete the scope and AB 52 consultation.

2.2 Cultural Resources Inventory and Evaluation Documentation

Consultant will carry out a cultural resources inventory of the CEQA study area. The inventory will be conducted by or under the direct supervision of a Registered Professional Archaeologist who meets the Secretary of the Interior’s Professional Qualifications Standards for prehistoric and historical archaeologist. This study will be conducted pursuant to the requirements of the California Environmental Quality Act (CEQA) and Section 106 of the National Historic Preservation Act for the identification of cultural resources. The scope of work includes a records search (0.5-mile radius), a field survey and inventory when weather and ground conditions permit, recording of up to three sites, evaluation of up to one non-archaeological cultural resource, and one confidential technical report (not for public distribution). This budget will accommodate one tribal monitor from UAIC to accompany the field survey.

Assumptions:

- The USACE does not request underwater archaeological investigation.
- No more than three sites will be identified, and all can be evaluated using survey-level data alone.
- Assumes that there will be no significant resources that will be impacted and that would require mitigation; or that the project design could be modified to avoid significant resources, if present.

2.3 Section 106 NHPA Coordination to Support Clean Water Act Permitting

During the course of its review of the project documentation and consultation under Section 106, the USACE or SHPO may require clarification, additional supporting documentation, project meetings or site tours, and other information. This task budget will allow Consultant to respond to any such requests for information, assuming no new analysis is required, and will only be used if requested by the USACE or SHPO for miscellaneous requests for information.

TASK 3 CEQA ENVIRONMENTAL DOCUMENTATION

It is likely that an Environmental Impact Report (EIR) will be required for the Project given the potential for cultural resources in the Project area. A Subsequent EIR from existing CEQA documentation for the Project area will be prepared, or a new EIR will be prepared for the Project utilizing information from past CEQA documentation for the Project area. Tasks to complete an EIR are described below.

3.1 Project Description and Notice of Preparation

Consultant will coordinate with SBFCA to develop and clarify the project description. Coordination for this task will be by telephone and/or email. Development of the project description will establish the critical elements of the site plan. The project description will also describe the maintenance activities anticipated. The project description shall include a description of the project's regional and local location, environmental setting, local transportation system, land use designations, and surrounding land uses. Maps showing the regional and specific location of the projects will be included in this section. The project description will also include a description of the project's history, the goals, objectives, and need for the projects, as well as the project construction schedule and sequencing and site layout. Site layout maps shall be provided by the project engineer in .pdf format. The project description will also include a list of uses of the EIR, including a list of project approvals required by other agencies.

Consultant will identify key stakeholders within the community that should be notified regarding the Proposed Project. Once compiled, this information will be placed in a stakeholder database for review by SBFCA. Consultant will update and maintain the database throughout the life of the Proposed Project.

Consultant will prepare a Notice of Preparation (NOP) for submission to SBFCA for review and comment. Because it has already been determined that an EIR will be prepared for the Project, the NOP will not include an Initial Study (IS).

SBFCA comments on the Draft NOP will be incorporated into a final version and distributed by Consultant for public review, including filing the NOP at the State Clearinghouse and with the County Clerk.

Consultant will advertise and conduct one (1) public scoping meeting. The session will be conducted by Consultant's Project Manager with the assistance of the SBFCA and project applicant. SBFCA will be responsible for providing a brief presentation describing the proposed project and project objectives. The session will be conducted at a suitable location within the County. Consultant will review oral comments from the scoping session and written comments on the NOP and will provide a memorandum to SBFCA listing any and all substantive issues raised that merit consideration in the EIR.

Consultant will conduct an informal consultation with appropriate agencies to define agency concerns and expectations pertaining to the proposed project and environmental review process. Agencies to be contacted include, but are not limited to, the Bureau of Reclamation, USACE, NMFS, USFWS, State Water Resources Control Board (SWRCB), California State Lands Commission, and CDFW.

Assumptions:

- A draft and final NOP will be prepared along with the mailing list.
- An NOP will be circulated to the mailing list recipients as well as posted with the State Clearinghouse and County Clerk. An Initial Study will not be included with the NOP.
- Scoping meeting presentation materials and a scoping memorandum will be prepared.

3.2 Administrative Draft EIR

An Administrative Draft EIR (ADEIR) will include all sections required by CEQA, including: (1) summary of impacts and mitigation measures; (2) project objectives (3) project description; (4) setting [existing condition discussions for both the physical environment and regulatory context], impacts and their significance both before and after implementation of identified mitigation, and mitigation measures [project-specific and cumulative] for each environmental issue; (5) CEQA-required sections; and (6) alternatives analyses. Each individual technical section contains a description of the methods of analyses and standards of significance used to determine the significant of each identified impact, including a discussion of the specific cumulative context for each issue item.

Project Description. Consultant will prepare a clear, concise description of project elements relying on information provided by SBFCA

Environmental Setting/Impact Analyses/Mitigation Measures. The setting sections of the EIR will focus on site-specific information describing the conditions at the project site and will summarize, as appropriate, regional setting information obtained from existing documentation and appropriate site reconnaissance. The setting discussions will have descriptions of the regulatory context, as applicable, for each technical issue. Relevant County General Plan and any applicable regional plan policies will be presented in the Setting sections or consolidated into separate appendices. Any inconsistencies of the proposed projects and relevant land use policies will be identified. It will be assumed for the purpose of the analysis that the project will comply with all applicable federal, state, and county standards, regulations and ordinances.

Cumulative Impacts. The review of all technical issue areas will include an evaluation of cumulative impacts of implementation of the proposed project in combination with other reasonably foreseeable development activities. The EIR will include a review of the County General Plan, and any other relevant planning documents to provide an adequate context for the evaluation of cumulative impacts that will meet the requirements of CEQA.

Alternatives Analysis. The EIR will include a comparative analysis of a reasonable range of alternatives to the proposed project. A table that compares impacts of the proposed project to each alternative will be provided and included in the Summary of Impacts and Mitigation Measures chapter of the EIR. In addition to the proposed project, up to two additional alternatives will be evaluated, not including the No Project Alternative.

Included in the alternatives assessment will be a discussion of alternatives that were considered but eliminated from full review in the EIR. This section will briefly describe each of these alternatives, list screening criteria used to eliminate these alternatives from further review in accordance with CEQA Guidelines and explain why the alternative was appropriate for elimination.

Other Sections Required by CEQA. The EIR will include other sections as required by the guidelines including a summary of growth inducing impacts and any unavoidable significant impacts.

Summary Chapter. Consultant will prepare a Project Summary Chapter in accordance with CEQA Guidelines and include a brief description of the project, potential areas of controversy, project alternatives, and a summary table of impacts and mitigation measures identified in the ADEIR.

Technical studies required to support the CEQA document are included in Tasks 1 above, and will be included as appendices to the EIR (with the exception of the cultural report with confidential information).

Assumptions:

- One first draft ADEIR will be prepared and submitted in PDF file format and Word file format.
- Up to two additional alternatives will be evaluated, in addition to the No Project Alternative and proposed Project.

3.3 Draft EIR

Following SBFCA's review of the ADEIR, Consultant will coordinate with SBFCA staff to review comments, receive direction, and discuss revisions. SBFCA will be responsible for consolidating all staff comments on the ADEIR. Consultant will revise the ADEIR and submit an electronic version of a "second administrative draft" EIR to SBFCA for final review. We anticipate the review of the second administrative draft will result in minor changes. These revisions will be incorporated into a DEIR ready for public circulation. Consultant will prepare a circulation list for the DEIR. Consultant will prepare the required Notice of Availability (NOA) and send copies to all parties that have provided written requests for copies. Consultant will prepared the Notice of Completion (NOC) and will file it with the County Clerk and State Clearinghouse. Consultant will be responsible for publishing the NOA in a local newspaper.

Consultant's Project Manager and selected technical specialists as needed will make a presentation and accept comments at a public hearing to be held within the County during the public comment period if SBFCA requires.

Assumptions:

- One electronic copy of the second ADEIR and one electronic copy of the DEIR will be prepared and submitted.
- One electronic copy of the NOA and NOC will be filed with the State Clearinghouse and County Clerk and State Clearinghouse.
- One newspaper ad will be published.
- One public hearing can be attended if requested.

3.4 Administrative Final EIR

After the public comment period has closed, Consultant will bracket and number all substantive comments contained within all comment letters received on the DEIR. Consultant will prepare draft written responses to those comments and submit the comment letters and draft responses to SBFCA staff for review and comment. It is assumed that there will be approximately 25 comment letters with at least five containing substantive comments requiring a moderate level of effort to provide defensible responses.

Consultant will incorporate SBFCA staff revisions, as appropriate, to draft responses to comments and prepare an Administrative Final EIR (AFEIR). The AFEIR will include a list of commenters, responses to comments, summary of DEIR text changes, a project summary, and revised summary table.

The AFEIR will also include a draft Mitigation Monitoring and Reporting Program (MMRP) for review. Consultant will prepare the MMRP to include mitigation measures identified in the AFEIR. The MMRP will include the mitigation measures, assignment of responsibility, and relationship to project phasing, implementation timing, and reporting procedure.

CEQA findings, including any required Statements of Overriding Considerations, will be prepared.

Assumptions:

- One electronic copy of a draft and final responses to comments and Administrative Final EIR as well as the MMRP will be prepared and submitted.
- One draft and one final CEQA Findings, including any required Statements of Overriding Considerations, will be prepared and submitted.

3.5 Final EIR

Consultant will attend one public hearing for certification of the EIR. Consultant will be prepared to respond to questions, make presentations, and/or participate in an advisory capacity. Consultant, if so requested, will immediately prepare written responses to questions and comments raised at hearing. Consultant's Project Manager will attend the hearing, as will technical staff members on the Consultant team, if needed.

Following the hearing to certify the EIR, Consultant will prepare the Final EIR and file the Notice of Determination (NOD) with the County Clerk and State Clearinghouse.

Assumptions:

- Presentation materials and attendance at one public hearing as necessary.
- One electronic copy of the Final EIR.

- Filing of the Notice of Determination with the State Clearinghouse and County Clerk.

TASK 4 REGULATORY DOCUMENTATION AND PERMITS

4.1 USACE Clean Water Act Section 404 Permit

Previous segments of the FRWLP that impacted Waters of the U.S. received authorization under Nationwide Permit 3 Maintenance. The extent of impacts to Waters of the U.S. are unknown at this time; however, it is anticipated that Nationwide Permit 3 or another application Nationwide Permit can be used to obtain Clean Water Act Section 404 authorization for impacts to Waters of the U.S. ECORP will prepare the pre-construction notification (PCN) for the Project. Upon client review and approval, the PCN will be submitted to the USACE.

Assumptions:

- The scope assumes that there will be no changes to the original project boundary or impact limits provided in AutoCAD format to Consultant at the start of preparation and includes one round of compiled edits to the draft PCN.
- This scope assumes electronic submittal of the PCN to the USACE.

4.2 Regional Water Quality Control Board (RWQCB) Clean Water Act Section 401 Water Quality Certification

ECORP will prepare an application for Water Quality Certification (i.e., application) pursuant to Clean Water Act Section 401 and the Porter-Cologne Water Quality Control Act. The application will be prepared in accordance with the SWRCB's Procedures for Discharges of Dredged and Fill Material to Waters of the State (Procedures). It is anticipated that the Project may require a Tier 2 Alternatives Analysis. Information to support the Tier 2 analysis (onsite alternatives analysis) will be included in the application and it is assumed the alternatives from the EIR can be used to support the Tier 2 analysis. After client comments are received and incorporated into the document, a submittal copy will be generated, and with client approval, submitted to the RWQCB.

Assumptions:

- The scope assumes no changes to the original project boundary or impact limits provided in AutoCAD format to Consultant at the start of preparation, and one round of compiled edits to the Draft application.
- This task does not include preparation of an offsite alternatives analysis. If the Project requires a Tier 3 Alternatives Analysis, a change order will be prepared.
- Consultant will make one round of compiled edits to the draft application and will submit an electronic final application to the RWQCB.

- The cost does not include RWQCB application fees or dredge and fill fees.

4.4 USFWS ESA Section 7 Consultation

Consultant will prepare a biological assessment (BA) in support of Endangered Species Act (ESA) Section 7 consultation with the USFWS.

Consultant will prepare a BA per USFWS guidelines to support ESA Section 7 consultation process regarding potential project-related effects to federally listed or candidate species under the jurisdiction of the USFWS. The BA will include an evaluation of the potential effects to federally listed threatened, endangered, or petitioned species and critical habitat that are known to or may occur within the action area, which will likely include, giant garter snake, VELB, and yellow-billed cuckoo.

A list of potentially affected federally listed species and the nearest location(s) of critical habitat will be acquired via the USFWS species list website (<http://ecos.fws.gov/ecp/report/table/critical-habitat.html>) for the appropriate United States Geological Service (USGS) quadrangle map(s) on which the project occurs; CDFW's CNDDDB; and additional relevant occurrence data. Detailed species accounts and status summaries will be provided for those federally listed species that have the potential to be affected by the proposed project.

The BA will include a description of the project location, purpose of the project, the action area (i.e., adjacent habitat outside the project boundary that may be directly or indirectly affected by the proposed project), existing site conditions, project impacts and mitigation measures, project-related effects (i.e., direct, indirect, and cumulative affects to federally listed species), and a discussion of project alternatives.

Assumptions:

- The scope of work assumes one electronic copy of the draft BA review and one electronic copy of the final BA to be submitted to the USACE.
- Consultant will address one round of comments on the draft BA.
- The scope assumes no changes to the original project boundary or impact limits provided in AutoCAD format to Consultant at the start of preparation.
- This task will utilize existing available information and data, and does not include focused surveys (e.g., protocol-level presence/absence surveys).

4.3 NMFS ESA Section 7 Consultation

Because the lower Feather River supports populations of three anadromous fish species that are listed as threatened under the federal Endangered Species Act (ESA), critical habitat for these species, and essential fish habitat (EFH) for Chinook salmon, Consultant will prepare a BA in support of ESA Section 7 and Magnuson-Stevens Act (MSA) consultation with NMFS.

The project occurs within the Feather River, which supports the following fish and habitat resources under the management jurisdiction of NMFS:

- Central Valley spring-run Chinook salmon (threatened) and its critical habitat;
- California Central Valley steelhead (threatened) and its critical habitat;
- Green sturgeon (threatened) and its critical habitat; and
- Essential Fish Habitat (EFH) for Chinook salmon.

Detailed species accounts, life histories, and status summaries will be provided for each of the three federally listed fish species that have the potential to be affected by the proposed project. The BA will include a description of the project locations, purpose of the project, the action area (i.e., adjacent habitat outside the project boundary that may be directly or indirectly affected by the proposed project), existing site conditions, project impacts and mitigation measures, a determination of project-related effects (i.e., direct, indirect, and cumulative effects to federally listed species), and a discussion of project alternatives.

Assumptions:

- The scope of work assumes one electronic copy of the draft BA for review and one electronic copy of the final BA to be submitted to the USACE.
- Consultant will address one round of comments on the draft BA.
- The scope assumes no changes to the original project boundary or impact limits provided in AutoCAD format to Consultant at the start of preparation.
- This task will utilize existing available information and data, and does not include focused surveys (e.g., protocol-level presence/absence surveys).

4.5 CDFW Incidental Take Permit (ITP)

It is likely that the Proposed Project could result in take of state-listed species. These may include giant garter snake, Central Valley spring-run ESU Chinook salmon, Swainson's hawk (*Buteo swainsoni*), and yellow-billed cuckoo.

If potential take of state-listed species is anticipated, ECORP will prepare an application for an ITP for take authorization. In accordance with CDFW's ITP application guidelines, ECORP will prepare a draft and final ITP application detailing the applicant's contact information, a complete description of the Project, location (including maps) of project impacts, an analysis of the potential take and adverse impacts on state-listed species, including a jeopardy analysis for the population, proposed mitigation and monitoring measures, applicant certification, and documentation of CEQA compliance.

Assumptions:

- The scope of work assumes one electronic copy of the draft application for review and one electronic copy of the final application to be submitted to CDFW.
- Consultant will address one round of comments on the draft application.
- The scope assumes no changes to the original project boundary or impact limits provided in AutoCAD format to Consultant at the start of preparation, and one round of compiled edits to the draft application.
- This cost does not include the CDFW application fees for the ITP.
- This task will utilize existing available information and data, and does not include focused surveys (e.g., protocol-level presence/absence surveys).

4.6 CDFW 1602 Streambed Alteration Agreement Notification

A Streambed Alteration Notification (i.e., application) will be prepared for the Project. The application will be prepared using CDFW's Environmental Permitting Information Management System (EPIMS) Online Portal.

Assumptions:

- The scope of work assumes electronic copy of the draft application for review and submittal of the application using EPIMS.
- Consultant will address on round of comments on the draft Notification.
- The scope assumes no changes to the original project boundary or impact limits provided in AutoCAD format to Consultant at the start of preparation.
- The cost does not include the CDFW 1602 application fee.

4.7 Environmental Support for Central Valley Flood Protection Board (CVFPB) Encroachment Permit and USACE 408 Permission

ECORP will provide environmental support for the CVFPB Encroachment Permit and USACE 408 Permission. Support will include completing the CVFPB Form 3615a (Environmental Questionnaire) for the Project.

TASK 5 TECHNICAL SUPPORT/MEETINGS

This task will allow the Consultant to participate in project meetings, conference calls, and field visits with SBFCA, generally manage the project, and provide services as requested. This is a time and materials, best efforts task, that will be used as needed throughout the remainder of this task order. Amendments may be necessary if additional effort is required (particularly with respect to agency liaison).

BUDGET

The budget for the tasks above is based on the provisions of the Master Agreement. A breakdown of work effort is provided on Table 1.

Task Number	Task Description	Budget
Task 1	Biological Resources Technical Studies	
1.1	Biological Resources Assessment	\$22,500
1.2	Aquatic Resources Delineation	\$10,500
<i>Task 1 Subtotal</i>		<i>33,000</i>
Task 2	Cultural Resources and Tribal Consultation	
2.1	AB 52 Support to Support CEQA	\$5,000
2.2	Cultural Resources Inventory and Evaluation	\$30,000
2.3	Section 106 NHPA Coordination to Support Clean Water Act Permitting	\$3,500
<i>Task 2 Subtotal</i>		<i>38,500</i>
Task 3	CEQA Environmental Documentation	
3.1	Project Description and Notice of Preparation	\$14,500
3.2	Administrative Draft EIR	\$45,000
3.3	Draft EIR	\$11,500
3.4	Administrative Final EIR	\$18,500
3.5	Final EIR	\$11,000
<i>Task 3 Subtotal</i>		<i>\$100,500</i>
Task 4	Biological and Regulatory Documentation and Permits	
4.1	USACE Clean Water Act 404 Permit	\$11,500
4.2	Regional Water Quality Control Board Clean Water Act Section 401 Water Quality Certification	\$22,000
4.3	USFWS ESA Section 7 Consultation	\$16,000
4.4	NMFS ESA Section 7 Consultation	\$14,000
4.5	CDFW Incidental Take Permit	\$15,000
4.6	CDFW 1602 Streambed Alteration Agreement Notification	\$10,000
4.7	Environmental Support for CVFPB Encroachment Permit/408 Permission	\$10,000
<i>Task 4 Subtotal</i>		<i>\$98,500</i>
Task 5	Technical Support/Meetings	
5.0	Agency Liaison, Meetings, Technical Support	\$75,000
<i>Task 5 Subtotal</i>		<i>\$75,000</i>
TOTAL		\$345,500

ESTIMATED APPLICATION/PERMIT FEES TO BE PAID DIRECTLY BY SBFCA (NOT INCLUDED IN BUDGETS ABOVE)

RWQCB 401 Certification: 2021/2022 RWQCB Category A Fill & Excavation Discharges

- \$21,544 per acre of discharge (includes permanent and temporary impacts)

1602 Notifications: 2022 Notification Fee Based on Total Cost of Project:

- Project Costs less than \$5,000: \$645.00
- Project Costs from \$5,000 to \$10,000: \$809.25
- Project Costs from \$10,000 to \$25,000: \$1,615.50
- Project Costs from \$25,000 to \$100,000: \$2,424.75
- Project Costs from \$100,000 to \$200,000: \$3,558.50
- Project Costs from \$200,000 to \$350,000: \$4,826.50
- Project Costs greater than \$350,000: \$5,748.75

CDFW ITP Application: 2022 ITP Application Fees:

- Project Costs less than \$100,000:
 - Mitigated at CDFW-approved bank: \$6,917.25, or
 - Not mitigated at CDFW-approved bank: \$8,646.50
- Project Costs from \$100,000 to \$500,000:
 - Mitigated at CDFW-approved bank: \$13,834.00, or
 - Not mitigated at CDFW-approved bank: \$17,292.50
- Project Costs from greater than \$500,000:
 - Mitigated at CDFW-approved bank: \$27,668.50, or
 - Not mitigated at CDFW-approved bank: \$34,585.25

CONTACTS

All deliverables discussed in this SOW shall be provided to as described above.

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be duly executed as of the day and year first written above.

SUTTER BUTTE FLOOD CONTROL AGENCY

CONSULTANT

By: _____

By: _____

MICHAEL BESSETTE

Executive Director, SBFCA

BJORN GREGERSEN

President, ECORP Consulting, Inc.



Sutter Butte Flood Control Agency

A Partnership for Flood Safety

April 20, 2022

TO: Board of Directors

FROM: Michael Bessette, Executive Director

SUBJECT: Approve and authorize the Executive Director to execute Task Order 26 Amendment No. 2 with HDR for services related to the closeout of the Feather River West Levee Project O&M Manual updates

Recommendation

It is recommended that the Board of Directors authorize the Executive Director to execute Task Order 26 Amendment No. 2 with HDR to provide services related to the closeout of the Feather River West Levee Project O&M Manual updates under the Master Services Agreement subject to legal counsel's final review and approval. Included with Staff's recommendation is a recommendation to augment the approved FY 2021/22 budget to cover the additional costs associated with this amendment.

Background

The HDR team, in support of the Sutter Butte Flood Control Agency, prepared designs for the Feather River West Levee Project (FRWLP), from Thermalito Afterbay to the north end of the Star Bend setback levee (Project Areas B, C and D – FRWLP Phase I). Designs and construction documents for FRWLP Phase I improvements were prepared between year 2013 and year 2014, then constructed from year 2013 to year 2020. The HDR team provided support to SBFCA and its construction manager during construction and has assisted with various closeout efforts including preparation of construction closeout reports, record drawings, FEMA accreditation packages, and Urban Levee Design Criteria (ULDC) certification. Improvements to the FRWL also necessitated updates to the existing USACE Operation and Maintenance (O&M) Manuals. The intent of the O&M Manual updates is to provide information related to the as-constructed facilities.

The intent of this Task Order Amendment No. 2 is to provide SBFCA with the continued services necessary for the final closeout of the O&M Manual updates. The HDR team previously prepared O&M Manual updates for Units 144, 148, and 152. Updates have not yet been approved by USACE and coordination is currently on-going. On December 15, 2021, USACE provided new comments on previously updated O&M Manuals for Units 144 and 148. The USACE is also still currently reviewing the Unit 152 O&M Manual. HDR will perform the tasks as listed in the scope with direction from SBFCA's Executive Director and it is anticipated that all tasks will be complete by March of 2023.

Fiscal Impact

Budget for the closeout of the FRWLP is included with the Board Approved FY 2021 through 2024 budget. Costs associated with the project are cost-shared with the State via SBFCA's Urban Flood Risk Reduction grant with the California Department of Water Resources. Approval of Task Order 26 Amendment No. 2 with HDR will obligate SBFCA to pay for the associated services delivered (which are provided on a time and materials basis) up to the task order budget limitation. With the Amendment, the total maximum limit for Task Order 26 will be increased by \$33,979 from \$538,853 to \$572,832. . The budget for this work is included within SBFCA Expenditure Account 731-99-5001/6001-67202, 68202 and 68802. The current budget for account 731-99-5001/6001-67202, 68202 and 68802 for FY's 2021/22 through 2022/23 is insufficient to cover the additional costs associated with Amendment 2 to HDR Task Order 26. With the Board's approval of staff's recommendation, the budget will be

increased by \$33,979 to cover the cost of the Amendment. There is sufficient fund balance with fund 731 to cover the additional costs of the Amendment.

Attachment: HDR Task Order 26 Amendment No. 2 Scope and Fee



March 30, 2022

Michael Bessette
Sutter Butte Flood Control Agency
Via email: m.bessette@sutterbutteflood.org

RE: Scope and Fee Estimate for Engineering Services for Task Order 26 – Amendment 2, Feather River West Levee Project O&M Manual Updates

Dear Mr. Bessette,

The HDR team, in support of the Sutter Butte Flood Control Agency (SBFCA), prepared designs for improvements to the Feather River West Levee (FRWL) from Thermalito Afterbay to the north end of the Star Bend setback levee (Project Areas B, C and D – FRWL Phase I - project station 512+00 to 1674+37 and station 1769+31 to 2368+36). Designs and construction documents were prepared between 2013 and 2014, then constructed between 2013 and 2019. Improvements to the FRWL necessitated updates to existing USACE Operation and Maintenance (O&M) Manuals. The intent of the updates is to provide operation and maintenance information related to the as-constructed facilities.

The HDR team previously prepared O&M Manual updates for Units 144, 148, and 152 and responded to the USACE comments. Updates have not yet been approved and coordination with USACE is currently on-going. On December 15, 2021, USACE provided new comments from a third USACE reviewer, Ryan Larson, on Units 144 and 148 O&M Manuals. There are approximately a dozen new comments on the Unit 144 Manual and Unit 148 Manual. The HDR team will continue to work with USACE and SBFCA and finalize Operations and Maintenance manuals for Units 144 and 148 in accordance with the USACE requirements. The HDR team will submit the referenced manuals to the USACE on behalf of SBFCA.

The following scope has been prepared to outline additional services related to updating the above referenced O&M Manuals.

Scope of Work

The work outlined in this scope has been divided into tasks in accordance with the work break down structure (WBS) shown below and in the attached fee summary. The work outlined in this scope includes activities that fall within the following tasks:

- Project Management
- USACE O&M Manual Updates

1 – Project Management

HDR's project manager will manage the contract scope, schedule, and budget for HDR's team project activities outlined for this Task Order amendment. HDR's project manager will follow the existing Project Management Plan for other SBFCA FRWL project Task Orders.

Assumptions:

- Work will be completed by March of 2023.

Deliverables:

- Invoices and progress reports.

2 – USACE O&M Manual Updates

The HDR team will continue working with the USACE and SBFCA to finalize the Unit 144, 148, and 152 O&M Manuals. The team will address new comments from USACE and revise the manuals accordingly. Manuals will also be formatted based on USACE's latest guidance and in accordance with ER 1110-2-401.

2.1 Units 144 and 148 Operations and Maintenance (O&M) Manuals

The HDR team will continue to work with USACE and SBFCA and finalize the O&M Manuals for Units 144 and 148 in accordance with the USACE requirements. The HDR team will submit the referenced manuals to the USACE on behalf of SBFCA.

Assumptions:

- The HDR team will address new comments and revise the Units 144 and 148 O&M Manuals and reformat them based on USACE's latest guidance and in compliance with ER 1110-2-401.
- The updated manuals will replace the existing O&M manuals for the entire reaches of Units 144 and 148.
- To the extent possible, the HDR team will use the information already gathered and included in the draft Units 144 and 148 Manuals.

Deliverables:

- Revised O&M manuals for Units 144 and 148 including all of the exhibits (PDFs).

2.2 Update Unit 152 O&M Manual

Per USACE the Unit 152 O&M Manual had not been officially updated to incorporate the FRWL Project in accordance with the new manual format. The work on the Unit 152 O&M Manual was put on hold in 2019 until an acceptable format, content, and organization could be established. Since then, the Unit 152 Manual has been updated and submitted to USACE for review. Additional

comments and coordinated are anticipated to finalize this manual. The HDR Team will address new comments from USACE and coordinate as required to facilitate approvals.

Assumptions:

- To the extent possible, the HDR team will use the information already gathered and included in the draft Unit 152 Manual.

Deliverables:

- Revised O&M manual including all the exhibits (PDFs).

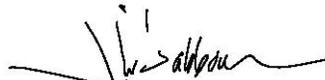
Fee Estimate

Attached please find HDR's fee estimate for the scope of work described herein for Task Order 26. Amendment2.

Sincerely,
HDR Engineering, Inc.



Holly L. L. Kennedy, PE (CA # 74682)
Senior Vice President



Daniel Jabbour, PE (CA)
Project Manager

**GROUNDWATER, MANUALS, ROW, FEMA SUPPORT
FEATHER RIVER WEST LEVEE PROJECT
TOTAL FEE SUMMARY - TASK ORDER 26 - Amendment 2**

No.	Task Description	HDR	WR	Total Costs
Engineering and Closeout				
1	Project Management and Design Management Meetings			
1.1	Project Management, Invoicing, and Progress Reports	\$ 3,732	\$ 1,525	\$ 5,257
1.2	Design Management Meetings	\$ -	\$ -	\$ -
	Subtotal Project Management and Design Management Meetings	\$ 3,732	\$ 1,525	\$ 5,257
2	Operation and Maintenance Manual Updates			
2.1	USACE O&M Manual Updates	\$ -	\$ 27,984	\$ 27,984
		\$ -	\$ -	\$ -
		\$ -	\$ 27,984	\$ 27,984
	Subconsultant Markup (2.5%)			\$738
	Subtotal Effort	\$3,732	\$29,509	\$33,241
	Subtotal Effort w/ Sub Markup	\$4,470	\$29,509	\$33,979

**HDR - GROUNDWATER, MANUALS, ROW, FEMA SUPPORT
FEATHER RIVER WEST LEVEE PROJECT
TOTAL FEE SUMMARY - TASK ORDER 26 - Amendment 2**

No.	Task Description	Labor											Acct	Clerical	Total Hours	Total Labor (\$)	Expenses	Total	
		E7	E6	E5	E4	E3	E2	E1	T4	T3	T2	T1							
	Rates	298.96	247.00	222.94	197.63	155.82	133.01	112.75	146.95	127.95	117.80	89.94	133.01	112.75				8%	
Engineering and Closeout																			
1	Project Management and Design Management Meetings																		
1.1	Project Management, Invoicing, and Progress Reports	8											8		16	\$ 3,456	\$ 276.46	\$ 3,732	
	Subtotal Project Management and Design Management Meetings	8	0	0	0	0	0	0	0	0	0	0	8	0	16	\$ 3,456	\$ 276	\$ 3,732	
2	Operation and Maintenance Manual Updates																		
2.1	USACE O&M Manual Updates														0	\$ -	\$ -	\$ -	
	Subtotal Operation and Maintenance Manual Updates	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$ -	\$ -	\$ -	
TOTAL EFFORT		8	0	8	0	16	\$ 3,456	\$ 276	\$ 3,732										

**Wood Rodgers - GROUNDWATER, MANUALS, ROW, FEMA SUPPORT
FEATHER RIVER WEST LEVEE PROJECT
TOTAL FEE SUMMARY - TASK ORDER 26 - Amendment 2**

No.	Task Description	Labor												Acct	Clerical	Total Hours	Total Labor (\$)	Expenses	Total		
		E7	E6	E5	E4	E3	E2	E1	T4	T3	T2	T1	Survey								
	Rates	274.00	241.39	228.34	215.29	195.71	169.63	156.57	150.04	130.48	104.38	85.31		123.94	97.86			2.5%			
Engineering and Closeout																					
1	Project Management and Design Management Meetings																				
1.1	Project Management, Invoicing, and Progress Reports	2	2	2													6	\$ 1,487	\$ 37	\$ 1,525	
	Subtotal Project Management and Design Management Meetings	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	6	\$ 1,487	\$ 37	\$ 1,525	
2 Operation and Maintenance Manual Updates																					
2.1	USACE O&M Manual Updates		10	10		100			15								8	143	\$ 27,302	\$ 683	\$ 27,984
	Subtotal Operation and Maintenance Manual Updates	0	10	10	0	100	0	0	15	0	0	0	0	0	0	8	143	\$ 27,302	\$ 683	\$ 27,984	
TOTAL EFFORT		2	12	12	0	100	0	0	15	0	0	0	0	0	8	149	\$ 28,789	\$ 720	\$ 29,509		

HDR Engineering Inc.
Task Order 26
Feather River West Levee

This Task Order is associated with the Master Agreement between the Sutter Butte Flood Control Agency and HDR Engineering Inc., dated July 14, 2010.

Scope of Work

See attached scope dated March 30, 2022.

Schedule

The assumed schedule is included in the scope referenced above.

Budget

The budget for this amendment is not-to-exceed \$33,979 based on the provisions of the Master Agreement. An assumed breakdown of work effort is provided in the attached Fee Summary table dated March 30, 2022.

Special Provisions

None

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be duly executed as of the day and year first written above.

SUTTER BUTTE FLOOD CONTROL AGENCY

HDR ENGINEERING INC.

By: _____

By: _____

DATED: _____

DATED: _____



Sutter Butte Flood Control Agency

A Partnership for Flood Safety

April 20, 2022

TO: Board of Directors

FROM: Michael Besette, Executive Director

SUBJECT: Approval of Task Order 25 Amendment No. 2 with HDR for Engineering Services related to the Second Street Encroachments Removal Work

Recommendation

It is recommended that the Board of Directors approve and authorize the Executive Director to execute Task Order 25 Amendment No. 2 with HDR in the amount of \$107,779 to provide engineering services for the Feather River West Levee Project under the Master Services Agreement subject to legal counsel's final review and approval. Included with Staff's recommendation is a recommendation to augment the approved FY 2021/22 budget to cover the additional costs associated with this amendment.

Background

The HDR team, in support of the Sutter Butte Flood Control Agency, prepared designs for improvements to the Feather River West Levee (FRWL) from Thermalito Afterbay to the north end of the Star Bend setback levee (Project Areas B, C and D – FRWLP Phase I). The segment of the FRWL in Yuba City along Second Street, between the Sutter County Airport and Sutter County offices, has existing residential homes and encroachments along the landside of the levee. Encroachments include fencing, trees, vegetation, and other above-ground features that may hinder levee inspections and limit the ability to observe levee landside conditions during high water events. SBFCA, working with local landowners, is required to remove the existing encroachments to provide clear lines of sight and access to the landside of the levee in order to meet State of California Urban Levee Design Criteria (ULDC) and USACE inspection requirements.

The intent of Task Order 25 Amendment No. 2 is to provide SBFCA with design and construction management services necessary for the encroachment removal work. HDR will perform the tasks as listed in the scope with direction from SBFCA's Executive Director. Work under Amendment No. 2 will be completed by MHM, Inc. as a subconsultant to HDR and includes the following:

- Project Management
- Preparation of the Engineering Design Plans, Specs, and Cost Estimates
- Right-of-Way and Landowner Coordination
- Preparation of Bid Documents
- Engineering Services during Construction
- Construction Management and Onsite Inspection Services

Fiscal Impact

Budget for Feather River West Levee Project Second Street encroachment work is included with the Board Approved FY 2021/22 through FY 2022/23 budgets. Costs associated with the project are cost-shared with the State via SBFCA's UFRR grant with the California Department of Water Resources. Approval of Task Order 25

Amendment No. 2 with HDR will obligate SBFCA to pay for the associated services delivered (which are provided on a time and materials basis) up to the task order budget limitation. With the Amendment, the total maximum limit for Task Order 25 will be increased from \$289,367 to \$397,146. The budget for this work is included within SBFCA Expenditure Account 731-99-5001/6001-65679. The current budget for account 731-99-5001/6001-65679 for FY's 2021/22 through 2022/23 is insufficient to cover the additional costs associated with Amendment 2 to HDR Task Order 25. With the Board's approval of staff's recommendation, the budget will be increased by \$107,779 to cover the cost of the Amendment. There is sufficient fund balance with fund 731 to cover the additional costs of the Amendment.

Attachment: HDR Task Order 25 Amendment No. 2 Scope and Fee

HDR Engineering Inc.
Task Order 25 – Amendment No. 2
Feather River West Levee

This Task Order is associated with the Master Agreement between the Sutter Butte Flood Control Agency and HDR Engineering Inc., dated July 14, 2010.

Scope of Work

See attached scope dated April 8, 2022.

Schedule

The assumed schedule is included in the scope referenced above.

Budget

The budget for this amendment is not-to-exceed \$107,779 based on the provisions of the Master Agreement. An assumed breakdown of work effort is provided in the attached Fee Summary table dated April 8, 2022.

Special Provisions

None

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be duly executed as of the day and year first written above.

SUTTER BUTTE FLOOD CONTROL AGENCY

HDR ENGINEERING INC.

By: _____

By: _____

DATED: _____

DATED: _____



April 8, 2022

Michael Bessette
Sutter Butte Flood Control Agency
Via email: m.bessette@sutterbutteflood.org

RE: Scope and Fee Estimate for Engineering Services for Task Order 25 – Amendment 2, Feather River West Levee Project Second Street Encroachments

Dear Mr. Bessette,

The HDR team, in support of the Sutter Butte Flood Control Agency (SBFCA), prepared designs for improvements to the Feather River West Levee (FRWL) from Thermalito Afterbay to the north end of the Star Bend setback levee (Project Areas B, C and D – FRWL Phase I - project station 512+00 to 1674+37 and station 1769+31 to 2368+36).

The segment of the FRWL in Yuba City, along 2nd Street, between Sutter County Airport and Sutter County offices, has existing residential homes and encroachments along the landside of the levee. Encroachments include fencing, trees, vegetation, and other above-ground features that may hinder levee inspections and limit the ability to observe levee landside conditions during flood fighting efforts. SBFCA, working with local landowners, wishes to remove existing encroachments to provide clear lines of sight and access to the landside of the levee.

The following scope has been prepared for design and construction management (CM) services in support of SBFCA's goal to address these existing encroachments.

Work under Task Order will be completed by MHM, Inc. as subconsultant to HDR.

Scope of Work

The work outlined in this scope has been divided into tasks in accordance with the work breakdown structure (WBS) shown below and in the attached fee summary. The work outlined in this scope includes activities that fall within the following tasks:

- Project Management
- Design and Engineering
- Engineering During Construction
- Construction Management

1 – Project Management and Meetings

1.1 Project Management

HDR's project manager will manage the contract scope, schedule, and budget for HDR's team project activities outlined for this Task Order amendment. HDR's project manager will follow the existing Project Management Plan for other SBFCA FRWL project Task Orders. In addition, the

Project Manager will coordinate with the Client, subconsultant teams, agencies, and stakeholders throughout the duration of the project.

HDR will prepare monthly invoices and document project activities by task and team progress.

Deliverables:

- Monthly invoices and progress reports (PDF).

Assumptions:

- Work will begin on May 1, 2022, and be completed on October 31, 2022.
- HDR's project manager will follow the existing Project Management Plan for other SBFCA FRWL project Task Orders.

1.2 Meetings

The HDR team will attend progress meetings with SBFCA as needed to facilitate project designs and approvals. These progress meetings will extend throughout the design contract.

Deliverables:

- Meeting notes.

Assumptions:

- Assumes up to six 1-hour progress meetings and up to six 30-minute conference calls.
- Meetings will be attended by the design lead. The Project Manager will attend as needed.

2 – Design and Engineering

The HDR team will conduct field surveys, prepare construction documents including plans, specifications, special provisions, an Opinion of Probable Construction Costs (OPCC), and Basis of Design Report (BODR). Work will be completed as outlined in the following subtasks.

2.1 Surveying and Mapping

Data from Unmanned Aircraft System (UAS) technology and field ground surveys will be used to generate a seamless three-dimensional model of existing ground to 1) prepare a contour map with 0.5-foot interval topography and, 2) produce georeferenced .tiff files. Contour and topographic files will be compatible for use with Geographic Information Systems (GIS) and AutoCAD software.

Surveys for control will be conducted utilizing an efficient combination of Global Positioning System (GPS) technology and conventional survey methods. Point data captured from control surveys will be evaluated, post processed, adjusted, and calibrated to the most current documentation of NAD83 and NAVD88 by the National Geodetic Survey.

Deliverables:

- Topographic Mapping (DWG).
- Aerial Imagery (.tiff).
- Survey Control Data Sheet.
- Digital Terrain Model (DTM).

Assumptions:

- Topographic information will be collected within the limits of work and will identify above-ground features such as rocks, trees, and tree driplines.
- The positional accuracy relative to project control, of the data collected will be a standard error of less than 0.10 ft on hard surface topography and less than 0.50 ft on soft surface topography.
- Right-of-way information including boundary surveys will be provided.

2.2 Right-of-Way and Surveys (Research, Boundary Surveys, Descriptions, and Plats)

Right-of-way (ROW) and boundary information prepared as part of the larger Feather River West Levee Program will be utilized to identify property limits and to place “show me” stakes in the field. The intent of the “show me” stakes is to identify and confirm limits of encroachments removals.

Deliverables:

- Boundary surveys (“show me” stakes).

Assumptions:

- Boundary information will be provided in AutoCAD format.
- Development of Plats and Legal Descriptions are not required nor included in this scope.

2.3 90-percent Design

The 90% construction documents will include plans, specifications, an OPCC, and a BODR.

Plans will be prepared on 11”x17” sheets utilizing AutoCAD software. The plans will include typical front-end sheets (title, sheet index, general layout, survey control), plan sheets depicting site features and encroachments to be removed, and appropriate detail and cross section sheets.

Technical specifications will be prepared and compiled into a specifications book that include SBFCA General Specifications, Special Provisions, Standard Forms, and a bid form. Technical specifications will cover requirements for the work shown on the plans.

An OPCC will be prepared that will include quantities and costs associated with the various work items listed in the bid schedule. the OPCC at the 90% level of design will include a contingency of 15% to 25%.

A BODR will be prepared that consist of a binder containing a design decision log, analyses, design calculations, quantity take-offs and geometric calculations, utility information, quality control reviews, and meeting notes.

Construction documents will be submitted to SBFCA for review. SBFCA will route documents to other stakeholders as appropriate.

Deliverables:

- 90% Plans and Specifications (PDF).
- 90% OPCC (PDF).
- 90% BODR (PDF).

Assumptions:

- Plans are anticipated to be for replacement of fencing and removal of vegetation. The plans will show limits of work and limits of clearing. Trees and vegetation to be saved will be marked in the field.
- Technical specifications will be prepared following Unified Field Guild Specification format consistent with previous SBFCA projects. The General Specifications and Special Provisions shall be prepared utilizing SBFCA's master format.
- Geotechnical, environmental, and permitting costs are not included in the scope of work.
- ROW acquisition is not included in the scope of work. SBFCA will obtain required ROW, although acquisition of new ROW as a part of this work is not anticipated.
- The OPCC will be prepared using Microsoft Excel spreadsheets.

2.4 100-Percent Design

Comments received on the 90% construction documents will be addressed and designs updated to the 100% level including plans, specifications, an OPCC, and a BODR. Comments will be responded to in writing. The OPCC and BODR prepared as part of Task 2.3 will be updated. The 100% design package will be submitted to SBFCA for review and close out of 90% comments.

Deliverables:

- 100% Plans and Specifications (PDF).
- 100% OPCC (PDF).
- 100% BODR (PDF).

Assumptions:

- SBFCA will route the 100% Design documents for review by other stakeholders (as appropriate).
- The 100% Design package is intended for closeout of comments. Changes to design approach are not anticipated at this submittal stage.

2.5 Bid Documents

Bid Documents will be prepared following closeout of the comments on the 100% Design submittal. Bid Documents will include plans with applicable sheets and details, full specifications book with updated bid schedule, and a revised OPCC.

Bid Documents will be provided to SBFCA for the purpose of soliciting construction costs from contractors.

Deliverables:

- Bid Documents (PDF).
- Final OPCC (PDF).

Assumptions:

- None.

2.6 Prebid Meeting and Bidding Support

The HDR team will attend a pre-bid meeting as requested by SBFCA. The intent of the pre-bid meeting is to provide an overview of the project to potential bidders and answer questions. In addition, the HDR team will support SBFCA during the bid phase of the project including responding to technical questions submitted by potential bidders and providing addenda when appropriate.

Deliverables:

- Addendum to bid documents for each bid package.

Assumptions:

- Up to two addenda will be required.
- One meeting is assumed for general coordination.
- Meetings will be attended by the design lead.

2.7 Conformed Plans and Specifications

Following the bid phase conformed construction documents will be prepared that include the plans and specifications. Conformed documents will incorporate addenda generated during the bid phase and will be used for construction.

Deliverables:

- Full-size and half-size Conformed Plans (PDF).
- Conformed specifications (PDF).

Assumptions:

- None.

3 – Engineering During Construction

3.1 Submittal and RFI Review

Construction contractor submittals and Requests for Information (RFIs) will be reviewed and responded to. Submittal and RFI comments will be compiled into one consolidated set of comments and will be provided to the CM team.

Deliverables:

- Written responses to Submittals and RFIs (PDF or email).
- Conformed specifications (PDF).

Assumptions:

- Up to 10 construction submittals will be required.
- Up to 15 requests for information will be submitted.

3.2 Engineering Inspections

Design inspections will be conducted on an as-needed basis and as requested by SBFCA. The intent of design inspections is to confirm that encroachment removals are being completed in accordance with the Construction Documents.

Deliverables:

- Field notes (PDF).

Assumptions:

- Up to six site visits.

3.3 On-Site Meetings

A representative from the design team will attend construction meetings with the Contractor, SBFCA, and the Construction Manager. The intent of the meetings will be to discuss comments provided on submittals, provide additional clarifications regarding RFIs, and coordinate with SBFCA, the Contractor, and the Construction Manager.

Deliverables:

- Meeting notes (PDF).

Assumptions:

- Up to four on-site meetings.

4 – Construction Management

4.1 Construction Management and Meetings

A CM team, including Resident Engineer, Inspector, and Construction Manager will support SBFCA during the construction phase of this project. The CM team will manage the construction contractor, monitor construction activities, conduct CM meetings, and will coordinate with and keep SBFCA informed on construction progress, issues, anticipated changes, and costs. The CM team will also assist through the bid phase including attendance at the pre-bid meeting.

CM meetings, including a pre-construction meeting, will be held on-site. Meeting agendas will be prepared and distributed prior to the start of the meetings. Meeting notes will be completed and distributed following the meetings. A full critical path schedule will be required from the contractor as part of the pre-construction meeting. The schedule will be reviewed to confirm compliance with the project requirements.

The intent of the CM meetings is to provide an overview of construction progress, discuss status of submittals and requests for information, review encountered issues, and to provide updates regarding upcoming work. A four-week look ahead schedule will be required and will be discussed during the CM meetings. Any conflicts noted between this four-week look ahead schedule and the full critical path schedule will be identified and discussed with the contractor.

A spreadsheet will be prepared to track project costs, potential construction change orders, and to aid in review of monthly construction progress payment requests. Construction change order requests, if any, will be evaluated for appropriateness and applicability to the work being performed.

Construction change orders will be coordinated with SBFCA for approval prior to issuing to the construction contractor.

Submittals and requests for information will be tracked and routed to the appropriate reviewer. Submittal comments and resubmittals will also be tracked and discussed at CM meetings. Responses to requests for information will be coordinated between the designer and construction contractor and discussed at CM meetings.

Reviews of construction contractor as-built documents will occur on a weekly basis to confirm that documents are properly maintained.

Deliverables:

- Meeting agendas and meeting notes (PDF).
- Project cost tracking spreadsheets (PDF).
- Submittal and RFI tracking spreadsheets (PDF).

Assumptions:

- Survey crew-days are anticipated to be 24-crew hours, including drive time.
- Up to 10 construction submittals will be required.
- Up to 15 requests for information will be submitted.
- Up to five contractor monthly progress payments will be evaluated and processed.
- Up to four contractor change orders will be evaluated and processed.
- Up to six field instructions will be issued.
- Up to four construction status meetings will be required during this project. Meetings will be up to 2-hours each.
- Construction will last for approximately four weeks (five days a week and eight hours per day).
- Up to 12 additional 1-hour meetings will be required to close out construction.
- A total of four Construction Control Monuments will be placed.

4.2 Field Inspection

Field inspection services will be provided as a part of this task and for the duration of construction. Inspectors will be on-hand during the various phases of the work to confirm compliance with the construction documents. Additionally, inspectors will perform Quality Assurance Surveys to confirm consistency with the construction documents. Construction inspection reports will be prepared daily and will include digital photos showing progress of work and/or special features. Progress reports will also list the equipment and personnel at the construction site. Force account work, if required, will be monitored and documented.

Field inspection personnel will coordinate with the Construction Manager and SBFCA, as required, to confirm progress of work and aid in resolving field issues.

Deliverables:

- Construction Inspection Reports (PDF).

Assumptions:

- On-site Inspector/Resident Engineer will be required for four weeks, five days per week, and for four hours per day.
- Construction Manager will be required on-site for four weeks and an average eight hours per week.

4.3 Construction Closeout

A construction walk-through will be conducted near the end of the construction phase. The walk-through will be with the contractor, CM team, SBFCA, and interested stakeholders with the intent of confirming that work has been completed in accordance with construction documents. Deficient items, or work not completed, will be identified on a Punch List. Input and comments will be obtained from attendees at the construction walk-through and a master Punch List will be prepared.

The master Punch List will be provided to the construction contractor for resolution. Punch List progress will be tracked, then a follow-up walk-through will be conducted to confirm that Punch List items have been addressed. Once Punch List items have been addressed, a Notice of Substantial Completion will be prepared. A project construction closeout package will be prepared that includes:

- Final Site Inspection Report.
- Punch List with resolution.
- Recommendation of final release of payment.
- Records, maps, plans maintained by during construction.
- Approved shop drawings, submittals, and manufacturer's literature maintained by the during construction.
- One set of annotated project progress photographs (bound and chronological).
- Field inspection reports and correspondence by category.
- One set of as-built drawings in neat red lines.

Deliverables:

- Construction closeout package (PDF).
- Punch Lists (PDF).

Assumptions:

- Up to two field meetings are required to confirm closeout of Punch List items.

4.4 Record Drawings

Record drawings will be prepared following completion of the construction phase. Record Drawings will depict changes from the Conformed Documents and will show the reported location of the work and significant changes made during the construction process.

Deliverables:

- Record Drawings and Specifications (PDF).

Assumptions:

- Record Drawings will be based on reported information provided by the Construction Contractor.
- Title sheet, standard details, demolition/staging, traffic control plans, and the horizontal control plans would not be modified as part of this task.

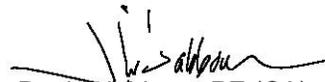
Fee Estimate

Attached please find HDR's fee estimate for the scope of work described herein for Task Order 25, Amendment 2.

Sincerely,
HDR Engineering, Inc.



Holly L. L. Kennedy, PE (CA # 74682)
Senior Vice President



Daniel Jabbour, PE (CA)
Project Manager

**FEATHER RIVER WEST LEVEE PROJECT
DESIGN AND CONSTRUCTION MANAGEMENT
TOTAL FEE SUMMARY - TASK ORDER 25 AMENDMENT 2**

No.	Task Description	HDR	MHM	Total Costs
Engineering and Closeout				
1	Project Management			
1.1	Project Management	\$ 1,922	\$ 2,242	\$ 4,164
1.2	Meetings	\$ -	\$ 3,384	\$ 3,384
	Subtotal Project Management	\$ 1,922	\$ 5,626	\$ 7,548
2	Design and Engineering			
2.1	Surveying and Mapping	\$ -	\$ 5,968	\$ 5,968
2.2	Right-of-Way Surveys	\$ -	\$ 4,399	\$ 4,399
2.3	90-Percent Design	\$ -	\$ 12,461	\$ 12,461
2.4	100-Percent Design	\$ -	\$ 6,403	\$ 6,403
2.6	Pre-Bid Meeting and Bidding Support	\$ -	\$ 3,498	\$ 3,498
2.7	Conformed Plans and Specifications	\$ -	\$ 979	\$ 979
	Subtotal Design and Engineering	\$ -	\$ 33,708	\$ 33,708
3	Engineering During Construction			
3.1	Submittal and RFI Review	\$ -	\$ 7,182	\$ 7,182
3.2	Engineering Inspections	\$ -	\$ 2,640	\$ 2,641
3.3	On-Site Meetings	\$ -	\$ 3,583	\$ 3,585
	Subtotal Engineering During Construction	\$ -	\$ 13,405	\$ 13,405
4	Construction Management			
4.1	Construction Management and Meetings	\$ -	\$ 10,796	\$ 10,796
4.2	Field Inspections	\$ -	\$ 33,950	\$ 33,950
4.3	Construction Closeout	\$ -	\$ 4,811	\$ 4,811
4.4	Record Drawings	\$ -	\$ 979	\$ 979
	Subtotal Construction Management	\$ -	\$ 50,536	\$ 50,536
	Subconsultant Markup (2.5%)			\$2,582
	Subtotal Effort	\$1,922	\$103,275	\$105,198
	Subtotal Effort w/ Sub Markup	\$4,504	\$103,275	\$107,779

**FEATHER RIVER WEST LEVEE PROJECT
DESIGN AND CONSTRUCTION MANAGEMENT
TOTAL FEE SUMMARY - TASK ORDER 25 AMENDMENT 2**

No.	Task Description	Labor												Acct	Clerical	Total Hours	Total Labor (\$)	Expenses	Total
		E7	E6	E5	E4	E3	E2	E1	T4	T3	T2	T1							
		Daniel J																	
		Nicole Koehella Gardenc																	
	Rates	307.93	254.41	229.63	203.56	160.49	137.00	116.13	151.36	131.79	121.33	92.64	137.00	116.13				8%	
Engineering and Closeout																			
1	Project Management																		
1.1	Project Management	4											4		8	\$ 1,780	\$ 142.38	\$ 1,922	
1.2	Meetings														0	\$ -	\$ -	\$ -	
	Subtotal Project Management	4	0	0	0	0	0	0	0	0	0	0	4	0	8	\$ 1,780	\$ 142	\$ 1,922	
2	Design and Engineering																		
2.1	Surveying and Mapping														0	\$ -	\$ -	\$ -	
2.2	Right-of-Way Surveys														0	\$ -	\$ -	\$ -	
2.3	90-Percent Design														0	\$ -	\$ -	\$ -	
2.4	100-Percent Design														0	\$ -	\$ -	\$ -	
2.6	Pre-Bid Meeting and Bidding Support														0	\$ -	\$ -	\$ -	
2.7	Conformed Plans and Specifications														0	\$ -	\$ -	\$ -	
	Subtotal Design and Engineering	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$ -	\$ -	\$ -	
3	Engineering During Construction																		
3.1	Submittal and RFI Review														0	\$ -	\$ -	\$ -	
3.2	Engineering Inspections														0	\$ -	\$ -	\$ -	
3.3	On-Site Meetings														0	\$ -	\$ -	\$ -	
	Subtotal Engineering During Construction	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$ -	\$ -	\$ -	
4	Construction Management																		
4.1	Construction Management and Meetings														0	\$ -	\$ -	\$ -	
4.2	Field Inspections														0	\$ -	\$ -	\$ -	
4.3	Construction Closeout														0	\$ -	\$ -	\$ -	
4.4	Record Drawings														0	\$ -	\$ -	\$ -	
	Subtotal Construction Management	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$ -	\$ -	\$ -	
TOTAL EFFORT		4	0	4	0	8	\$ 1,780	\$ 142	\$ 1,922										

**FEATHER RIVER WEST LEVEE PROJECT
DESIGN AND CONSTRUCTION MANAGEMENT
TOTAL FEE SUMMARY - TASK ORDER 25 AMENDMENT 2**

No.	Task Description	Labor											2-Man Survey	Acct	Clerical	Total Hours	Total Labor (\$)	Expenses	Total			
		E7	E6	E5	E4	E3	E2	E1	T4	T3	T2	T1										
	Rates	243.00	201.00	180.00	167.00	160.00	139.00	132.00	139.00	125.00	111.00	97.00	297.00	138.00	111.00			3.5%				
Engineering and Closeout																						
1	Project Management																					
1.1	Project Management	8															2	10	\$ 2,166	\$ 76	\$ 2,242	
1.2	Meetings	5			9													4	18	\$ 3,270	\$ 114	\$ 3,384
	Subtotal Project Management	13	0	0	9	0	0	0	0	0	0	0	0	4	2			28	\$ 5,436	\$ 190	\$ 5,626	
2	Design and Engineering																					
2.1	Surveying and Mapping		2		2					2							16	22	\$ 5,766	\$ 202	\$ 5,968	
2.2	Right-of-Way Surveys		6		4												8	18	\$ 4,250	\$ 149	\$ 4,399	
2.3	90-Percent Design	2	6		32		24			12								76	\$ 12,040	\$ 421	\$ 12,461	
2.4	100-Percent Design	2	4		16		12			4								38	\$ 6,186	\$ 217	\$ 6,403	
2.6	Pre-Bid Meeting and Bidding Support	2			14		4											20	\$ 3,380	\$ 118	\$ 3,498	
2.7	Conformed Plans and Specifications				4						2							6	\$ 946	\$ 33	\$ 979	
	Subtotal Design and Engineering	6	18	0	72	0	40	0	20	0	0	0	24	0	0			180	\$ 32,568	\$ 1,140	\$ 33,708	
3	Engineering During Construction																					
3.1	Submittal and RFI Review	10			27													37	\$ 6,939	\$ 243	\$ 7,182	
3.2	Engineering Inspections	5			8													13	\$ 2,551	\$ 89	\$ 2,640	
3.3	On-Site Meetings	6			12													18	\$ 3,462	\$ 121	\$ 3,583	
	Subtotal Engineering During Construction	10	0	0	27	0	0	0	0	0	0	0	0	0	0			68	\$ 6,939	\$ 243	\$ 13,405	
4	Construction Management																					
4.1	Construction Management and Meetings	12			45													57	\$ 10,431	\$ 365	\$ 10,796	
4.2	Field Inspections	2	6		12												98	118	\$ 32,802	\$ 1,148	\$ 33,950	
4.3	Construction Closeout	2	16		4						2							24	\$ 4,648	\$ 163	\$ 4,811	
4.4	Record Drawings				4						2							6	\$ 946	\$ 33	\$ 979	
	Subtotal Construction Management	16	22	0	65	0	0	0	4	0	0	0	98	0	0			205	\$ 48,827	\$ 1,709	\$ 50,536	
TOTAL EFFORT		45	40	0	173	0	40	0	24	0	0	0	122	4	2			481	\$ 93,770	\$ 3,282	\$ 103,275	

Sutter Butte Flood Control Agency

RESOLUTION NO. 2022-06

**AUTHORIZING REMOTE TELECONFERENCE MEETINGS OF SUTTER BUTTE
FLOOD CONTROL AGENCY PURSUANT TO THE BROWN ACT**

WHEREAS, Sutter Butte Flood Control Agency (“Agency”) is committed to preserving public access and participation in meetings of the Board of Directors; and

WHEREAS, all meetings of the Agency are open and public, as required by the Ralph M. Brown Act (Gov. Code, §§ 54950 – 54963) (“Brown Act”), so that any member of the public may attend, participate, and watch the Agency’s legislative body conduct its business; and

WHEREAS, Assembly Bill 361 added Government Code section 54953(e) to make provisions for remote teleconferencing participation in meetings by members of a legislative body, without compliance with the requirements of Government Code section 54953(b)(3), subject to the existence of certain conditions; and

WHEREAS, a required condition is that a state of emergency is declared by the Governor pursuant to Government Code section 8625, proclaiming the existence of conditions of disaster or of extreme peril to the safety of persons and property within the state caused by conditions as described in Government Code section 8558; and

WHEREAS, it is further required that state or local officials have imposed or recommended measures to promote social distancing, or, the legislative body determines that meeting in person would present imminent risks to the health and safety of attendees; and

WHEREAS, as a condition of extending the use of the provisions found in Section 54953(e), the Board of Directors must reconsider the circumstances of the state of emergency that exists in the District; and

WHEREAS, such conditions persist in the District, specifically, the March 4, 2020 State of Emergency Proclamation remains active in California due to the continued threat of COVID-19; and

WHEREAS, the Board of Directors does hereby find that meeting in person would present imminent risks to the health or safety of attendees; and

WHEREAS, the Board of Directors does hereby find that the Agency shall conduct its meetings without compliance with paragraph (3) of subdivision (b) of Government Code section 54953, as authorized by subdivision (e) of section 54953, and that the Board shall comply with the requirements to provide the public with access to the meetings as prescribed in paragraph (2) of subdivision (e) of section 54953; and

WHEREAS, all meeting agendas, meeting dates, times, and manner in which the public may participate in the public meetings of the Agency and offer public comment by telephone or internet-based service options including video conference are posted on the Agency website and physically outside of the Agency office.

NOW, THEREFORE, THE BOARD OF DIRECTORS OF SUTTER BUTTE FLOOD CONTROL AGENCY DOES HEREBY RESOLVE AS FOLLOWS:

Section 1. Recitals. The Recitals set forth above are true and correct and are incorporated into this Resolution by this reference.

Section 2. Risks to Health and Safety of Attendees. The Board hereby determines that meeting in person would present imminent risks to the health or safety of attendees.

Section 3. Remote Teleconference Meetings. Agency staff are hereby authorized and directed to take all actions necessary to carry out the intent and purpose of this Resolution, including conducting open and public meetings in accordance with Government Code section 54953(e) and other applicable provisions of the Brown Act.

Section 4. Effective Date of Resolution. This Resolution shall take effect immediately upon its adoption and shall be effective until the earlier of (i) April 11, 2022, or such time the Board of Directors adopts a subsequent resolution in accordance with Government Code section 54953(e)(3) to extend the time during which the Agency may continue to teleconference without compliance with paragraph (3) of subdivision (b) of section 54953.

PASSED AND ADOPTED by the Board of Directors of Sutter Butte Flood Control Agency, this 20th day of April, 2022, by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

Chair



Sutter Butte Flood Control Agency

A Partnership for Flood Safety

April 20, 2022

TO: Board of Directors

FROM: Michael Bessette, Executive Director
Seth Wurzel, Budget Manager

SUBJECT: Receive and File Monthly Financial Reports (February 2022)

Recommendation

Staff recommends that the Board receive and file the February 2022 Financial Reports and receive staff's monthly financial report update.

Background

Staff will provide a brief presentation of SBFCA's current financial position and financial activities at the Board meeting and will be prepared to answer any questions. For this report, staff is presenting financial information for February 2022. Staff's oral presentation will cover the financial activities of the Agency through February 2022.

The monthly financial reports include the following information:

- Current Working Capital Position: The reports provide an update as to the liquidity of the Agency and ability to cover current obligations. This information is presented within the monthly financial reports prepared in coordination with Yuba City finance staff. The current and past months' financial reports reflects the financial information as of February 2022. The information presented is compared to the Final Amended Final Budget for 2021/22.

Fiscal Impact

This is an informational item with no fiscal impact.

Attachments

(Note – The Monthly Financial Report is not available prior to the finalization of the Agenda Packet – the Monthly Financial Report will be provided and made available prior to the start of the Board Meeting)

Yuba City Finance Department Memorandum, April 20, 2022 re: Monthly Financial Report: February 2022



Sutter Butte Flood Control Agency

A Partnership for Flood Safety

April 20, 2022

TO: Board of Directors

FROM: Michael Bessette – Executive Director

SUBJECT: Receive and File Program/Project Update Report

Recommendation

Receive and file the April 2022 Program/Project update report and receive staff's monthly Program/Project presentation.

Background

The purpose of this report is to provide a regular, monthly update on SBFCA program and project activities:

Congressman Doug LaMalfa Briefing

On March 23 staff participated in the City of Biggs' meeting with Congressman Doug LaMalfa. At this meeting staff provided the Congressman with a briefing on SBFCA projects including; Sutter Bypass East Levee Project, Feather River West Levee Projects 1 & 2, 200-year levee certification, FEMA remapping of Butte County, upcoming FEMA remapping of Sutter County, Oroville Wildlife Area project (completed Unit D project and proposed Robinson's Riffle project), and coordination efforts with DWR on Cherokee Canal improvements. The meeting was very positive and staff followed up with a thank you letter to be hand delivered in Washington D.C. by Director James "Bo" Sheppard (see attached).

Feather River Regional Flood Management Planning

Staff is coordinating with DWR on their upcoming fourth round of funding for the Feather River Regional Planning. It has been proposed amongst the regional partner agencies that SBFCA be the lead agency for the State contract for this next phase of work. The RFMP team is advancing the flood management priorities of the region while at the same time collaborating with the State as they develop the 2022 Central Valley Flood Protection Plan (CVFPP) update. SBFCA's primary interests in the regional planning effort is to advance OMRR&R activities for Cherokee Canal, advance the multi-benefit OWA Robinson's Riffle project, advance critical repairs along the Sutter Bypass east levee, participate in FEMA National Flood Insurance Program reform, and identify and implement other regional flood risk reduction projects. These priorities for SBFCA will also be documented within the 2022 CVFPP. SBFCA has also been in coordination with member agency staff, such as City of Gridley, to help develop and identify funding for beneficial multi-benefit projects within the region.

Sutter Bypass Critical Repairs

Staff continues to coordinate funding through DWR for Sutter Bypass Critical Repairs. A draft scope of work was sent to DWR for their review and comment. Staff held a meeting with DWR on March 2 to discuss the proposed local cost share for the project and to address comments on the scope of work. Next steps will be to advance discussions toward a funding agreement to initiate design and permitting work. At the same time, we are utilizing the approved contract amendments to the Tudor Small Community Study and the Sutter Small Community study to advance our levee investigations (both geotechnical and environmental). Through this contract amendment

staff is advancing the work needed to conduct additional geotechnical soil borings which we hope to complete this year pending approval by the US Army Corps of Engineers.

Proposition 68 Sediment Management Project

Both the Live Oak Boat Ramp project and the Yuba City Boat Ramp project have been completed and closed out. Staff is pursuing additional funding opportunities in order to remove additional sediment from the confluence of the Feather and Yuba Rivers (phase 2 work) and submitted a grant application to CDFW in March. In addition staff is coordinating with Senator Nielson and Assemblyman Gallagher to identify and secure \$10 million in directed state funding for the project. Existing environmental permits acquired for the phase 1 work would cover this additional phase 2 work and are valid through 2026. SBFCA staff also continues to coordinate with Yuba County staff to remove sediment at the Star Bend boat ramp.

Sutter Basin Flood Risk Management Project (federal project)

USACE's contractor, Forgen, continues to close out their contract with USACE on the 5-mile Cypress to Tudor levee improvement project including as-built drawings and addressing punch-list items identified by the design team and Local Maintaining agencies (Levee District 1 and State MA3). Ongoing coordination is taking place to ensure the contractor corrects the outstanding deficiency items. In addition, staff developed bid documents for the Levee District 1 fence and gate replacement project, put the project out to bid, opened bids on January 18, and issued a construction contract. The concrete blocks, which are incorporated as the fence replacement, have been installed and the security gates will be installed by early April. SBFCA staff continues to participate in frequent USACE project management team and construction coordination meetings in order to advance the project and is working with USACE on project crediting reports and other remaining project closeout items. These two items of work will continue to be a focus of discussion and coordination between SBFCA and USACE. The crediting reports are needed to perfect the credit established by SBFCA by advancing the levee improvements before the federal government appropriated funds for the project.

Engineering Design

The design team continues to process the encroachment permits for facilities (pipes, electrical, levee ramps, etc.) modified by the Feather River West Levee Project (FRWLP). Those permits are processed through the Central Valley Flood Protection Board after approval by the Corps of Engineers. The scoping work on developing the encroachment permits for the Second Street properties in Yuba City has been completed and informational letters have been sent to the property owners. An informational meeting was held with these property owners on March 29 whereat staff fully explained the encroachment permit process and the planned vegetation removal and fence installation project in order to comply with federal and state levee standards. Lastly, the design team is coordinating closely with USACE on the review and approval of the Operation and Maintenance manuals for the FRWLP levee improvements (3 separate manuals) which must be submitted to USACE for approval. We continue to hold monthly coordination meetings with USACE in order to advance this review and approval process.

The Design team has completed their work to produce the Urban Level of Protection EVD-1 Engineer's Report, which was presented to and approved by the Board in October 2021. Staff is coordinating with SBFCA's land-use member agencies so they take the necessary actions required by Senate Bill 5. In addition, the team is continuing to make progress on the low-risk/long-term items identified in the EVD-1 and USACE Periodic Inspection report that will require addressing later this year and into the future. USACE completed their "routine" levee inspection which started in June last year. We have been informed by USACE that we will receive the inspection results in the next several months. Once the results are received staff will coordinate a meeting with DWR to discuss next steps.

Environmental Documentation/Permitting/Monitoring/Mitigation

ECORP Consulting continues to provide environmental and cultural permit compliance monitoring and documentation for all active projects (OWA project, FRWLP closeout activities, Sutter Bypass project, and the USACE Cypress to Tudor levee improvement project as needed).

Work on the Star Bend and Mathews Property environmental mitigation sites continues. SBFCA staff and the Sacramento Valley Conservancy team continue to work on completing all the associated land transfers, easement establishments, regulatory reviews, and other associated activities required to establish and manage the mitigation sites in perpetuity. The revised draft management plan and associated easement documents were sent to California Department of Fish and Wildlife (CDFW) and the US Fish & Wildlife Service for their respective reviews and staff continues to coordinate toward final approval. Coordination calls have been held with the agencies to help closeout this process. Staff continues to coordinate with Levee District 1 on the required land transfer and ongoing maintenance cost reimbursement at Star Bend.

Right of Way

The Right of Way team recently updated the closeout schedule for right of way transfer to the State. Coordination with PG&E on the easements SBFCA was required to acquire for their relocated facilities is also taking place. DWR will cost share in these property easement acquisitions through SBFCA’s UFRR Funding Agreement. The SBFCA right-of-way team and DWR (real estate branch and geodetics group) continue to conduct monthly coordination meetings to streamline the real estate acquisition reimbursement process and ultimate transfer of property to the State by the end of this year.

Regional Development Impact Fee

At SBFCA’s August 2021 Board meeting the board unanimously approved the development of a Regional Development Impact Fee (DIF) Program to help fund implementation of the SBFCA Strategic Plan and directed staff to proceed on completing an AB1600 compliant Nexus Study. The DIF would be imposed on new development within the Sutter-Butte Basin, collected by the land-use agency members and the funds would be remitted to SBFCA to construct flood risk reduction projects. Staff prepared drafts of the Nexus Study and Collection Agreement and is coordinating review of the draft documents with member agency staff prior to presentation to SBFCA and the land-use agencies’ Councils/Boards for approval. Next steps are to finalize the draft documents and continue outreach to member land-use agencies. On April 5 the City of Yuba City Council approved the transfer of \$1.7 million in collected development impact fees to SBFCA. We anticipate this transfer to occur later this month.

Feather River West Levee Financing Authority (FRWLFA)

SBFCA staff continue to assist the FRWLFA with the development of a benefit assessment district to adequately fund the operations and maintenance activities of Levee Districts 1 and 9. The consultant team HDR/Willdan is working on Task Order 2 activities which consist of development of a Preliminary Engineer’s Report and implementation and execution of the public outreach strategy. The FRWLFA Board meeting in April will include the approval of the Proposition 218 procedures resolution and upcoming schedule.

State & Local Funding and Coordination

EIP / UFRR Agreement

SBFCA staff continues to work with DWR to process additional payments and reimbursement requests for various items of work. The last payment received and reported to the Board was in the amount of \$783,081.81 on June 4, 2021 for costs incurred during the 27th Quarter. SBFCA is currently requesting four payments totaling \$4.9 Million from DWR including a release of retention for Emergency Repair Work on Reaches 14-16 and reimbursements of costs incurred in the 28th, 29th, 30th, and 31st Quarters of the Project.

The table below presents the funding status of the Agency’s UFRR Grant.

FRWLP DWR EIP/UFRR Funding

	<u>Agreement</u>		
	<u>Design</u>	<u>Construction</u>	<u>Total</u>
Agreement No.	#4600009480	#4600010296	
Capital Outlay Amount	\$9,000,000	\$56,780,000	\$65,780,000

Amendment 1	\$0	[1]	\$0	[2]	\$0
Amendment 2	\$14,869,280	[3]	\$57,803,791	[4]	\$72,673,071
Amendment 3	\$0		\$43,861,587		\$43,861,587
Amendment 4	\$0		\$40,828,931		\$40,828,931
Amendment 5	-\$2,529,451	[5]	\$31,730,451	[5]	\$29,201,000
Amendment 6	\$0		\$0	[1]	\$0
Amendment 7	\$0		\$3,744,017	[6]	\$3,744,017
TOTAL FUNDING	\$21,339,829		\$234,748,777		\$252,344,589
Receipts					
Payments to Date	\$21,339,829		\$219,119,441		\$240,459,270
Pending	\$0		\$4,919,919		\$4,919,919
TOTAL PAYMENTS	\$21,339,829		\$224,039,361		\$245,379,190
GRANT BALANCE	\$0		\$10,709,416		\$10,709,416

- [1] Amendment 1 to the Design Agreement and Amendment 6 to the Construction Agreement amended the terms of the agreements (time extensions only).
- [2] Amendment 1 to the Construction Agreement amended the scope agreement to include the closure of gaps (at reaches 13 and 24) in Area C.
- [3] Amendment 2 to the Design Agreement increased the cost share from 50% to 76% State Cost Share and increased the State funding limit.
- [4] Amendment 2 to the Construction Agreement increased the scope to include Areas B & D2A and increased the State funding limit. It also incorporated many of the guideline provisions of the UFRR Program.
- [5] Reflects pending transfer of remaining design funding to the CFA and additional funding from DWR for emergency work (\$25,000,000 for R 14 – 16 and \$4,201,000 for emergency storm response).
- [6] Additional funding for other scope items (OWA) included in Amendment 7 are included in the above analysis.

OWA (CDFW & WCB) Grant Agreements

SBFCA staff is working with the WCB and CDFW to process payments for the ongoing OWA work. Recent payments were received for all of the WCB grants in the amount of \$7,358,542 to date and for the CDFW Berm, Canal & Bridges grant in the amount of \$5,386,984 through the 8th Quarter, with \$80,014 for the 9th Quarter submitted and pending payment. Payments on the CDFW Veg Planting grant for the first through fifth quarters were received in the sum amount of \$756,367 with \$0 currently pending. A 6th Quarter package is currently being formulated with submittal this coming month. SBFCA also presently has \$0 in pending payments due from all additional WCB packages that were recently resubmitted with modifications and updates at WCB's request.

The tables below present the funding status of the Agency’s WCB Grants and CDFW Grants, respectively.

OWA WCB Funding

Grant Agreement No.	<u>Agreement</u>				<u>Total</u>
	WC-1736BC	WC-1842AP	WC-1729SS	WC-1554MM	
Grant Amount	\$5,070,900	\$1,542,100	\$484,000	\$792,522	\$7,889,522
TOTAL FUNDING	\$5,070,900	\$1,542,100	\$484,000	\$792,522	\$7,889,522
<i>Payment Received</i>					
PMT 1	\$768,688	\$1,011,120	\$484,000		\$2,263,808
PMT 2	\$1,593,679				\$1,593,679
PMT 3	\$17,073				\$17,073
PMT 4	\$53,946				\$53,946
PMT 5	\$1,558,060				\$1,558,060
PMT 6	\$139,225				\$139,225
PMT 7	\$12,169				\$12,169
PMT 8	\$9,228				\$9,228
PMT 9	\$23,227				\$23,227
PMT 10	\$23,143				\$23,143
PMT 11	\$10,840			\$101,525	\$112,365
PMT 12	\$354,531				
Retention Release	\$507,090				
Previous Amounts Sum [1]				\$690,997	\$690,997
TOTAL PAYMENTS	\$5,070,900	\$1,011,120	\$484,000	\$792,522	\$7,358,542
GRANT BALANCE	\$0	\$530,980	\$0	\$0	\$530,980

[1] Amount includes payments 1 thru 10 for WC-1554MM grant.

OWA CDFW Funding

	<u>Agreement</u>		<u>Total</u>
Grant Agreement No.	P1796010	Q1996015	
Grant Amount	\$5,648,836	\$1,716,847	\$7,365,683
TOTAL FUNDING	\$5,648,836	\$1,716,847	\$7,365,683
 Receipts			
Received			
PMT 1	\$22,457	\$404,324	\$426,781
PMT 2	\$29,825	\$113,379	\$143,205
PMT 3a	\$3,253,250	\$56,180	\$3,309,430
PMT 3b	\$1,458,029		\$1,458,029
PMT 4	\$303,191	\$42,759	\$345,950
PMT 5	\$164,122	\$139,725	\$303,847
PMT 6	\$114,971		\$114,971
PMT 7	\$27,302		\$27,302
PMT 8	\$13,837		\$13,837
Pending			
PMT 9	\$80,014		\$80,014
 TOTAL PAYMENTS	 \$5,466,999	 \$756,367	 \$6,223,366
 GRANT BALANCE	 \$181,837	 \$960,480	 \$1,142,317

CNRA Proposition 68 Sediment Management Project

SBFCA staff finalized a grant with California Natural Resources Agency (CNRA) for Sediment Management along the Feather River in February 2020 for \$5,000,000. The first four invoice packages cover costs through March 31, 2021. All four packages have been submitted to CNRA for payment, with the first quarter payment of \$15,477 received and the remaining three packages for the 2nd through 4th Quarters pending. A fifth invoice package is being formulated and will be submitted in near time. Additional invoices for subsequent quarters will proceed in coming months. SBFCA has been in close contact with CNRA to process payments.

CNR Sediment Removal Funding

	<u>Agreement</u>	<u>Total</u>
Grant Agreement No.	R31866-0	
Grant Amount	\$5,000,000	\$5,000,000
TOTAL FUNDING	\$5,000,000	\$5,000,000
 Receipts		
Received		
PMT 1	\$15,477	\$15,477
Pending		
PMT 2	\$237,517	\$237,517
PMT 3	\$151,111	\$151,111
PMT 4	\$258,997	\$258,997

TOTAL PAYMENTS	\$647,625	\$647,625
GRANT BALANCE	\$4,352,375	\$4,352,375

Oroville Wildlife Area (OWA) Flood Stage Reduction Project

The project team is coordinating closely with CDFW and WCB on the documentation for closing out this project, including work on project closeout and on post-construction monitoring activities. Closeout for both remaining WCB grants is expected early this year. SBFCA staff also continues to coordinate with River Partners regarding their ongoing work on the invasive species removal and the new vegetation planting efforts.

With regards to funding, SBFCA staff has recently submitted three different grant applications for advancing the OWA Robinson’s Riffle Restoration Project. The first grant application was submitted to the State Parks Department on January 20 which requested approximately \$3M in funding for improvements at the Thermalito Afterbay boat ramp and campground. A second grant application was submitted to DWR’s Floodplain Management, Protection, and Risk Awareness Grant Program on February 9 which requested approximately \$1.4M in funding for the alternatives analysis, pre-design, and environmental work. The third application was submitted to CDFW’s Watershed Restoration Program on March 4 which requested approximately \$1.7M in funding for the alternatives analysis, design, and environmental work. SBFCA staff is expecting to hear something back on the submitted grant applications around June and continues to monitor for other potential grant opportunities to advance this important project.

FEMA/USACE National Levee Database and Risk Rating 2.0

On April 1 staff attended a briefing by FEMA and USACE on FEMA’s new Risk Rating 2.0 program and how the USACE National Levee Database is incorporated into that program. At the briefing, FEMA provided a more in-depth summary of the changes under Risk Rating 2.0 for four specific levee systems in the Central Valley, one of which was the Feather River Right Bank/Sutter Bypass East Bank system. Overall, FEMA reported that the average premium for a policy within the Feather River/Sutter Bypass system is increasing from approximately \$600 per year to \$700 per year under Risk Rating 2.0. The USACE also provided information on the levee data that is being used within the rating calculations. SBFCA learned that the data currently being used is based upon a levee screening and risk assessment which was completed by USACE in July of 2015, prior to completion of the cutoff wall work. SBFCA staff will continue to monitor and stay engaged in these efforts to ensure that USACE and FEMA are incorporating the latest and best available information.

Sutter County FEMA Accreditation

SBFCA staff continues to coordinate with Sutter County and City of Yuba City staff regarding future FEMA accreditation and floodplain remapping. SBFCA has finished with incorporating the updates to the post-FRWLP 100-year floodplain maps and continues to coordinate with City and County staff. SBFCA’s design team is actively preparing the Sutter County FEMA Accreditation Package and it is anticipated that SBFCA, in coordination with Sutter County and Yuba City, will submit the 100-year accreditation package for the southern Feather River west levee reaches to FEMA in summer of 2022 following the closeout of the Federal project. Following submittal, it is anticipated that the review and processing period with FEMA will take approximately 3 to 5 years before the proposed mapping changes become effective. SBFCA staff has also been in contact with Yuba County staff and their consultants to help coordinate the ongoing hydraulic modeling efforts and to maintain consistency with recent levee work performed by both SBFCA and Three Rivers Levee Improvement Authority.

Fiscal Impact

This is an informational item only with no fiscal impact to SBFCA.

ATTACHMENT: Letter to Congressman Doug LaMalfa



Sutter Butte Flood Control Agency

Post Office Box M
Yuba City, CA 95991
(530) 755-9859

sutterbutteflood.org

COUNTIES

Butte County
Sutter County

CITIES

City of Biggs
City of Gridley
City of Live Oak
City of Yuba City

LEVEE DISTRICTS

Levee District 1
Levee District 9

March 28, 2022

Congressman Doug LaMalfa
408 Cannon House Office Building
Washington, DC 20515

Dear Congressman LaMalfa:

Thank you for taking time to meet on March 23rd on site at the west Feather River levee. We appreciated the dedicated time and opportunity to update you on all that the Sutter Butte Flood Control Agency (SBFCA) has been able to accomplish, in large part because of your help. As we discussed, SBFCA has completed the 200-year levee modifications that protect the urban communities of Yuba City, Live Oak, Biggs, and Gridley. These communities are the first in the Central Valley to reach this 200-year level of protection, eliminating the need for mandatory flood insurance and restrictions on building.

As SBFCA redoubles its efforts to implement the remaining components of its strategic plan -- most significantly the promise of 100-year flood protections for properties in the southern end of the basin -- we would appreciate your support on two critical items:

- We are grateful for Congress' support of FEMA flood risk grant programs, pushing money to the states to implement risk reduction projects. Unfortunately, we've lost some opportunities to apply for these funds because the specific levee needing work within our region, the Sutter Bypass, is owned and maintained by the California Department of Water Resources. To date, the Department has not agreed to support our application for these grants. We would appreciate you contacting the Department to urge it to support our application for these grants to ensure California gets its fair share of these Federal funds and that we continue to reduce flood risk for our residents.
- Our region continues to seek changes to the National Flood Insurance Program that would ease the regulatory burden on agricultural operations in the floodplain. You have been a strong supporter of this effort, introducing bipartisan legislation with Congressman Garamendi and others that will help our farmers. This year we will again be seeking legislative action and we appreciate your continued support.

Your partnership has been essential to reduce flood risk for our residents and we are grateful for your steady leadership and support of our efforts.

Sincerely,

A handwritten signature in blue ink that reads "Michael W. Bessette".

Michael W. Bessette, P.E.
Executive Director