

AMENDMENT FOUR TO AGREEMENT FOR ENGINEERING SERVICES
FOR
REPLACEMENT OF ST. HELENA CREEK BRIDGE AT WARDLAW STREET (14C-0035)
AND
REHABILITATION OF COOPER CREEK BRIDGE AT WITTER SPRINGS ROAD (14C-0102)
IN LAKE COUNTY, CALIFORNIA

THIS AMENDMENT TO AGREEMENT is made this 13th day of December, 2022, by and between the County of Lake, hereinafter referred to as "COUNTY", and Quincy Engineering, Inc., hereinafter referred to as "CONSULTANT".

WITNESSETH

WHEREAS, COUNTY and CONSULTANT have entered into an AGREEMENT dated June 2, 2015, Amendment One dated August 4, 2015, Amendment Two dated July 2, 2018, and Amendment Three dated December 18, 2018 to provide preliminary and final design, environmental services, right of way, bidding and construction assistance services in order to replace the St. Helena Creek Bridge at Wardlaw Street (14C-0035) and rehabilitate the Cooper Creek Bridge at Witter Springs Road (14C-0102); and

WHEREAS, COUNTY AND CONSULTANT now desire to amend said Agreement to allow for substitution of the sub-consultant for environmental services; and

WHEREAS, said substitution does not affect the agreed price; and

WHEREAS, Article XV, Section A, "MODIFICATION", of said Agreement allows that matters concerning scope of services which do not affect the agreed price may be modified by mutual written consent of CONSULTANT and COUNTY executed by Director of Public Works; and

WHEREAS, COUNTY AND CONSULTANT now desire to amend said Agreement to allow for said substitution.

NOW, THEREFORE, the parties hereto agree as follows:

1. **ARTICLE I, "SCOPE OF SERVICES", Section A**, is hereby modified to read as follows:
"CONSULTANT shall perform the services described in Exhibit "A" and hereby modified by Exhibit "C", attached hereto and incorporated herein by this reference hereinafter called Scope of Work. In the event of a conflict between this Agreement and Exhibits "A", and "C", the provisions of this Agreement shall control."
2. **ARTICLE VI, "COMPENSATION AND TERMS OF PAYMENT", Section B**, is hereby modified to read as follows:
Compensation: The method of payment for this contract will be based on Actual Cost-Plus-Fixed Fee. COUNTY will reimburse CONSULTANT for actual costs (including labor costs, employee benefits, travel, equipment rental costs, overhead and other direct costs) incurred by CONSULTANT in performance of the work set forth in Exhibit "B" as hereby modified by Exhibit "C". Direct Costs for Sub-

consultants will be billed as actual costs. No payment will be made prior to approval of any work, nor for any work performed prior to approval of this Agreement.

CONSULTANT will not be reimbursed for actual costs that exceed the estimated wage rates, employee benefits, travel, equipment rental, overhead, and other estimated costs set forth in the approved CONSULTANT'S Cost Proposal, unless additional reimbursement is provided for by contract amendment. In no event, will CONSULTANT be reimbursed for overhead costs at a rate that exceeds COUNTY's approved overhead rate set forth in the Cost Proposal. In the event, that COUNTY determines that a change to the work from that specified in the Cost Proposal and contract is required, the contract time or actual costs reimbursable by COUNTY shall be adjusted by contract amendment to accommodate the changed work.

For all services CONSULTANT shall be paid in accordance with the budget set forth in Exhibit "B" as hereby modified by Exhibit "C", provided however that the total payments to CONSULTANT shall not exceed \$630,920.45 for St. Helena Creek Bridge at Wardlaw Street (14C-0035), \$377,220.00 for Cooper Creek Bridge at Witter Springs Road (14C-0102), and a total of \$1,008,140.45 without prior written authorization by COUNTY and formal Amendment to this Agreement.

St. Helena Creek Bridge at Wardlaw Street (14C-0035); Phase 1 Only	\$494,246.46
St. Helena Creek Bridge at Wardlaw Street (14C-0035); Total	\$630,920.45
Cooper Creek Bridge at Witter Springs Road (14C-0102); Phase 1 Only	\$108,070.00
Cooper Creek Bridge at Witter Springs Road (14C-0102); Total	\$377,220.00

In addition to the allowable incurred costs, COUNTY will pay CONSULTANT a fixed fee of \$29,238.84 (\$21,243.36 for Phase 1 Only) for St. Helena Creek Bridge at Wardlaw Street and \$18,390.69 (\$6,973.87 for Phase 1 Only) for Cooper Creek Bridge at Witter Springs Road. The fixed fee is nonadjustable for the term of the contract, except in the event of a significant change in the scope of work and such adjustment is made by contract amendment.

Reimbursement for transportation and subsistence costs shall not exceed the rates specified in the approved Cost Proposal.

3. **Article XV, "MODIFICATION", Section A**, of the AGREEMENT dated June 2, 2015, allows that matters concerning scope of services which do not affect the agreed price may be modified by mutual written consent of CONSULTANT and COUNTY, executed by Director of Public Works.

The CONSULTANT and COUNTY wish to extend the term of the AGREEMENT. With the execution of this Amendment, the AGREEMENT shall continue in full force and effect until December 31, 2024. This Amendment shall not affect the agreed upon compensation.

Except as specifically modified herein, all other terms and conditions of the AGREEMENT dated June 2, 2015, Amendment One dated August 4, 2015, Amendment Two dated July 2, 2018, and Amendment Three dated December 18, 2018 shall remain in full force and effect.

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COUNTY and CONSULTANT have executed this Amendment to Agreement on the day and year first written above.

COUNTY OF LAKE:



Eddie Crandell (Dec 14, 2022 16:34 PST)

Chair, Board of Supervisors

Quincy Engineering, Inc.



Jason Jurrens, PE, California Regional Manager

ATTEST:

SUSAN PARKER
Clerk of the Board of Supervisors

APPROVED AS TO FORM:

ANITA L. GRANT
County Counsel



By: Johanna Delong (Dec 15, 2022 11:40 PST)

By:





October 25, 2022

Mr. John Everett, PE
Lake County Public Works Department
255 North Forbes, 3rd Floor
Lakeport, CA 95453

Re: St. Helena Creek Bridge at Wardlaw Street Replacement Project - Contract Amendment Request

Dear Mr. Everett:

We have prepared the attached information in support of a contract amendment for the subject projects. This amendment request focuses on the contract changes that are necessary to complete the NEPA and CEQA activities (Phase 1 Tasks as identified in the contract) for the St. Helena Creek Bridge at Wardlaw Street Replacement Project.

Our current contract is scoped for both phases 1 and 2, through final design and bidding tasks. Only Phase 1 has been authorized to date, and the following changes have been identified that will require a contract amendment to phase 1 tasks:

- Changes to the APE resulting from refinement of the design details. The APE limits were modified in 2019, after some of the field work and technical studies had been performed. Additional field work and revisions to the technical studies are required. In addition, the previous work will be updated based on the latest field conditions. The attached scope of work details which studies will be revised.
- Additional budget is needed to complete bridge design as escalation and project duration have greatly exceeded the original contract and subsequent amendments. Delays to the project have occurred as a result of fire events in the project area and county and due to Caltrans review and modifications required environmental technical studies.
- A stormwater control plan summarizing project impacts to water quality will be developed under a new sub-task. As will a temporary creek diversion memo and design. Both of these sub-tasks were added to support NEPA/CEQA activities during phase 1.

We would like to acknowledge that the scope and budget for Phase 2 tasks will also require additional amendment. These include additional parcel acquisitions and right of way engineering efforts and potential for additional geotechnical work based on foundation design requirements. We recommend a separate amendment at a time when the Phase 1 tasks are substantially complete, and any further changes to the Phase 2 scope and budget can be more completely identified.

Attached are a detailed scope of work and cost proposal for this phase 1 contract amendment. A breakdown of our contract budget and current request is as follows:

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	Wardlaw		Witter	
	Contract Budget	Fee	Contract Budget	Fee
Original Contract Phase 1	\$366,970	\$17,777.35	\$108,070	\$6,973.87
Amendments 1, 2 and 3	No Change	No Change	No Change	No Change
Amendment 4	\$127,276.46	\$3,466.01	No Change	No Change
Revised Totals	\$494,246.46	\$21,243.36	\$108,070	\$6,973.87

Please give me a call to discuss any questions or comments you may have on this proposed addendum. I can be reached at (916) 368-9181.

Sincerely,
Quincy Engineering, Inc.

A handwritten signature in blue ink that reads "Carolyn Davis".

Carolyn Davis, P.E.
Project Manager

Attachments: Scope of Work for Amendment 4
Hours and Cost Breakdown for Amendment 4
Quincy and Subconsultant 10H Forms

Cc: Scott De Leon, PE Lake County Public Works Department
Jason Jurrens, PE – Principal-in-Charge

EXHIBIT “C”

AMENDMENT FOUR TO

AGREEMENT FOR ENGINEERING SERVICES

FOR

REPLACEMENT OF ST. HELENA CREEK BRIDGE AT WARDLAW STREET (14C-0035)

AND

REHABILITATION OF COOPER CREEK BRIDGE AT WITTER SPRINGS ROAD (14C-0102)

IN LAKE COUNTY, CALIFORNIA



October 25, 2022

Mr. John Everett, PE
Lake County Public Works Department
255 North Forbes, 3rd Floor
Lakeport, CA 95453

Re: St. Helena Creek Bridge at Wardlaw Street Replacement Project - Contract Amendment Request

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- Additional budget is needed to complete bridge design as escalation and project duration have greatly exceeded the original contract and subsequent amendments. Delays to the project have occurred as a result of fire events in the project area and county and due to Caltrans review and modifications required environmental technical studies.
- A stormwater control plan summarizing project impacts to water quality will be developed under a new sub-task. As will a temporary creek diversion memo and design. Both of these sub-tasks were added to support NEPA/CEQA activities during phase 1.

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Attached are a detailed scope of work and cost proposal for this phase 1 contract amendment. A breakdown of our contract budget and current request is as follows:

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	Wardlaw		Witter	
	Cost Reimbursement Budget	Fee	Cost Reimbursement Budget	Fee
Original Contract Phase 1	\$366,970	\$25,772.83	\$108,070	\$18,390.69
Amendments 1, 2 and 3	No Change	No Change	No Change	No Change
Amendment 4	\$123,810.45	\$3,466.01	No Change	No Change
Revised Totals	\$490,780.45	\$29,238.84	\$108,070	\$18,390.69

Please give me a call to discuss any questions or comments you may have on this proposed addendum. I can be reached at (916) 368-9181.

Sincerely,
Quincy Engineering, Inc.

A handwritten signature in blue ink that reads "Carolyn Davis".

Carolyn Davis, P.E.
Project Manager

Attachments: Scope of Work for Amendment 4
Hours and Cost Breakdown for Amendment 4
Quincy and Subconsultant 10H Forms

Cc: Scott De Leon, PE Lake County Public Works Department
Jason Jurrens, PE – Principal-in-Charge



11017 Cobble Rock Drive, Suite 100, Rancho Cordova, CA 95670

P: 916.368.9181 | F: 916.368.1308 | www.quincyeng.com

County of Lake - Public Works Department
255 N. Forbes Street, Room 309
Lakeport, CA 95453
Attn: John Everett

Quincy Engineering Inc.
11017 Cobble Rock Drive
Suite 100
Rancho Cordova, CA 95670

Contract Budget Summary Phase 1

Project: St. Helena Creek Bridge at Wardlaw Street
Quincy Project No: L01-505
Amendment 4 Request Breakdown 10/26/22

QUINCY TASKS

Task	Description	Budget Amount	Amend 4 Request	Rev Budget with Amend 4	Billed through 8/31/22	% Billed
1	Quincy - Project Initiation	\$8,212.75		\$8,212.75	\$8,414.10	102.5%
2	Quincy - Project Management	\$12,670.51	\$10,365.00	\$23,035.51	\$19,135.93	83.1%
3	Quincy - Preliminary Engineering	\$49,825.54		\$49,825.54	\$49,864.92	100.1%
4	Quincy - Environmental Studies	\$14,415.21	\$3,564.30	\$17,979.51	\$10,853.67	60.4%
5	Quincy - Final Design Engineering	\$67,116.47	\$20,730.83	\$87,847.30	\$62,641.25	71.3%
6	Quincy - Permits	\$0.00		\$0.00	\$0.00	
7	Quincy - Right of Way Services	\$15,893.08		\$15,893.08	\$0.00	0.0%
8	Quincy - Utilities	\$9,639.90		\$9,639.90	\$272.76	2.8%
9	Quincy - Bidding Assistance	\$0.00		\$0.00	\$0.00	
10	Quincy - Construction Support	\$0.00		\$0.00	\$0.00	
11	Quincy - As-Builts	\$0.00		\$0.00	\$0.00	
Quincy Labor Sub Totals		\$177,773.46	\$34,660.13	\$212,433.59	\$151,182.63	85.04%
90	Quincy - Other Direct Costs	\$3,097.80		\$3,097.80	\$941.00	30.4%
Quincy Labor & ODC Sub Totals		\$180,871.26	\$34,660.13	\$215,531.39	\$152,123.63	84.11%

SUB CONSULTANT TASKS

Task	Description	Budget Amount	Amend 4 Request	Rev Budget with Amend 4	Billed through 8/31/22	% Billed
1	Project Initiation	\$1,609.47		\$1,609.47	\$1,391.46	86.5%
2	Project Management	\$6,978.04		\$6,978.04	\$7,974.74	114.3%
3	Preliminary Engineering	\$47,522.72		\$47,522.72	\$46,653.24	98.2%
4	Environmental Studies	\$77,238.58	\$52,786.00	\$130,024.58	\$35,581.42	27.4%
5	Final Design Engineering	\$3,482.98	\$36,364.32	\$39,847.30	\$3,715.59	9.3%
6	Permits	\$0.00		\$0.00	\$0.00	0.0%
7	Right of Way Services	\$0.00		\$0.00	\$0.00	0.0%
8	Utilities	\$0.00		\$0.00	\$0.00	0.0%
9	Bidding Assistance	\$0.00		\$0.00	\$0.00	0.0%
10	Construction Support	\$0.00		\$0.00	\$0.00	0.0%
11	As-Builts	\$0.00		\$0.00	\$0.00	0.0%
90	Other Direct Costs	\$31,489.60		\$31,489.60	\$19,875.29	63.1%
Sub Consultant Sub Totals		\$168,321.39	\$89,150.32	\$257,471.71	\$115,191.74	68.44%

	Budget Amount	Amend 4 Request w/out fee	Rev Budget with Amend 4 w/out fee	Billed through 8/31/22	% Billed
Project Sub Totals	\$349,192.65	\$123,810.45	\$473,003.10	\$267,315.37	76.55%

FIXED FEE

	Total Fixed Fee	Amend 4 Request (Fee)	Rev Budget with Amend 4 (Fee)	Fee Billed to Date	% Complete
FIXED FEE Quincy	\$17,777.35	\$3,466.01	\$21,243.36	\$10,666.43	60.00%
Fixed Fee Sub Totals		\$3,466.01	\$21,243.36	\$10,666.43	60.00%

Cumulative Billing Status					
	Budget Amount	Amend 4 Request	Rev Budget with Amend 4	Billed to Date	% Billed
Project Totals	\$366,970.00	\$127,276.46	\$494,246.46	\$277,981.80	75.75%



Exhibit A

St. Helena Creek Bridge at Wardlaw Replacement Project – Amendment #4 – Scope of Work

The following scope of work describes the changes to the original contract scope of work for St. Helena Creek at Wardlaw Street Project (14C-0035) made under this amendment. The Task structure follows the original contract and only includes those sub-tasks in Phase 1 that are modified as part of this amendment.

This amendment includes references to project schedule delays and extensions. To date, Quincy has not requested any escalation of costs. Delays outside the consultant team's control include:

- ✓ Shortly after beginning the project there were devastating fires in and around the project site. As a result, project team was not comfortable pushing residents for rights of entry, etc. and the project was put on hold (not obtained for 2 years following contract execution).
- ✓ Challenging hydraulic constraints have resulted in a more out of the box solution which the project team has documented in the Type Selection Report
- ✓ Bridge type selection needing to be determined prior to proceeding with environmental impact analysis and documentation including revising the APE limits.
- ✓ Evaluation of Historically Eligible Resource and public involvement as part of the process has taken longer than expected due to extended review periods for the various cultural resource documents – including 7 revisions to the Finding of Effect Document between July 2019 and August 2020

Task 2 - [Project Management](#)

Task 2.1 - Project Management

Additional project management effort is required due to the additional scope of work covered in this amendment and project duration extending beyond what was anticipated in the original contract and subsequent amendments. Additional effort for project duration only covers additional effort that is a result of delays outside of the consultant's control.

Assumptions:

- One additional project team meeting in Lake County is included for up to three staff from the Quincy team.

Task 4 - [Environmental Studies](#)

Task 4.1 - Prepare Project Description and APE Map

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Quincy will provide an updated APE map. These updates are to gain more room downstream to the north for a possible stream diversion and slope protection. The east APE boundary will also be expanded slightly to allow for a possible drainage ditch that may be necessary to help satisfy stormwater requirements. Lastly, the aerial photo will be updated since the structure locations have changed after the fire.

Stantec will update the project description and provide comments on revised version of the area of potential effects (APE) maps to reflect updates to the preferred alternative.

Task 4.2 - NEPA/CEQA Technical Studies

Sub-Task 4.2.1 - Prepare Natural Environmental Study (NES) Report

Stantec will update the NES report to reflect the latest preferred project and to conform to the current Caltrans NES template that was updated on May 3, 2018. Stantec assumes that field work previously conducted for the project in 2016 is dated, thus Stantec will conduct a new site visit to verify if habitat conditions within the Biological Study Area (BSA) have changed due to fire damage. The updated information will be included in the NES.

Sub-Task 4.2.2 - Prepare Wetland Delineation Report

Stantec will update the wetland delineation report to reflect the latest preferred project and to conform to the current Corps delineation requirements. Stantec assumes that field work previously conducted for the project in 2015 is dated and will conduct a new site visit to ensure that jurisdictional water conditions within the BSA have not changed. The updated information will be included in a revised wetland delineation, if necessary.

Sub-Task 4.2.3 - Prepare Archaeological Survey Report/Historical Properties Survey report

Far Western, as a subcontractor to Stantec, will conduct an updated record search at the Northwest Information Center at Sonoma State University since the prior record search was conducted in 2015. Far Western will also complete an updated Native American outreach effort, consisting of an initial request of interested Native American contacts from the Native American Heritage Commission (NAHC) and sending follow-up letters, in coordination with Caltrans District 1, to the Native American tribal contacts provided by the NAHC. All other sub-tasks will be completed as described in the original scope of work.

Assumptions:

- Additional work required by Caltrans following their review of the ASR is excluded and would require an additional amendment. Potential triggers for additional Section 106 work may include discovery of known sites within APE or high sensitivity for buried deposits within the APE based on known records in the project area. There is potential that Caltrans could require additional work including (but not limited to) an extended Phase I/Phase II investigation, Environmentally Sensitive Area Action Plan, Finding of Effect, or Discovery plan.

Sub-Task 4.2.4 - Prepare Archaeological Survey Report/Historical Properties Survey report

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Additional effort by JRP Historical Consulting LLC (JRP) for coordination was required in support of the finding of effect (FOE) documentation and to complete the Memorandum of Agreement (MOA), due to extended project duration.

Task 5 - Final Design Engineering

Elements of bridge and roadway calculations and plans have been advanced in phase 1 in order to identify impact areas and complete project description for NEPA/CEQA.

Task 5.3 - Prepare Plans, Specifications, and Estimate

This task was originally budgeted based on assumed project durations and escalations from 2015. Additional budget is needed to complete remaining phase 1 bridge design tasks due to increased project costs as a result of the project exceeding the schedule assumptions in the original contract and subsequent amendments.

Task 5.4 - Stormwater Control Plan [New Task]

WRECO will prepare a Stormwater Control Plan summarizing the Project impacts to water quality, including documenting post-construction stormwater management measures. The study will only address the impacts from the roadway and bridge improvements. WRECO will evaluate the proposed impervious surface improvements and determine the required post-construction stormwater management requirements. The management measures will meet the criteria set by the Phase II Small MS4 Permit administered by Central Valley Regional Water Quality Control Board. The Stormwater Control Plan will describe the proposed work, summarize the impervious surface improvements, and present the management measures used to meet the stormwater requirements and design calculations associated with these measures.

Quincy will develop the plans, details, specifications, and estimate for the permanent stormwater measures to be included in the Contract plans for construction.

Assumptions:

- Project is required to comply with the Phase II Small Municipal Separate Storm Sewer System (MS4) Program (Water Quality Order NO. 2013-0001-DWQ)
- Any increase in stormwater run-off demand can be accommodated with the existing storm drain systems. Analysis of the existing storm drain systems/ditches for capacity or demands is not included in this scope of work.
- All road run-off will drain onto either adjacent land, into existing storm drain systems, or into newly installed stormwater BMP features before discharging into adjacent waterways.

Deliverables:

- Draft Stormwater Control Plan (PDF)
- Final Stormwater Control Plan (PDF)
- Updates to Drainage Plans, Drainage Profiles (if necessary), Drainage Details, and Drainage Quantities sheets for stormwater as part of the project plan set (PDF only)

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Task 5.5 - Temporary Creek Diversion System Sizing [New Task]

WRECO will calculate construction season flows for the creek during the summer months and provide a recommendation for a temporary culvert size, which will be incorporated into the temporary creek diversion design. The methodology and calculations used to determine the temporary creek diversion system sizing will be documented in a technical memorandum.

Quincy will develop a stream diversion plan for work within the creek (assuming water will be flowing in the creek). This exhibit will be utilized for communicating to the environmental resource agencies to address water quality.

Assumptions:

- The summer months for the temporary creek diversion system are from April 15th to October 15th. Sizing will be adjusted once the permit restriction dates have been made available.
- Temporary creek diversion system will be required for one construction season.

Deliverables:

- Draft Temporary Creek Diversion System Sizing Technical Memorandum (PDF only)
- Final Temporary Creek Diversion System Sizing Technical Memorandum (PDF only)
- Temporary Creek Diversion Plan included as part of the project plan set (PDF only)

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Project Number:		Project Name: Lake County - St. Helena Creek at Wardlaw Street Project (14C-0035) Amendment #4																								
		TASKS																								
No.	Initial Hourly Rate	Senior Project Manager	Senior Engineer	Associate Engineer	Engineering Designer II	Senior Engineer	Engineering Designer I	Associate Engineer	Engineering Designer I	Survey Manager	Project Surveyor	CAD Manager	CAD Tech	Project Manager Assistant	Senior Engineer	Student/Intern	Student/Intern	Quincy Total Hours	Quincy Total Labor Dollars	Quincy Labor	Quincy Profit	Quincy NLF Budget	Stanlec Far West	HDR WRECO		Subconsultant Subtotal
		CDD	MMW	AKM	MAD	GRY	AAZ	JBW	AKJ	SH	ADD	BRM	PSK	DVA	RGF	MAE	QLC		Direct Labor	Labor OPH Multiplier	Fee Multiplier	Actual Labor Multiplier				
2																		0	\$0	\$0	\$0.00	\$0				\$0
2.1		20	20	8														48	\$3,028	\$10,365	\$1,036.55	\$11,402				\$0
4																		0	\$0	\$0	\$0.00	\$0				\$0
4.1				8														8	\$559	\$1,478	\$147.81	\$1,624	\$1,727			\$1,727
4.2		2	8															10	\$781	\$2,088	\$208.80	\$2,297	\$20,229			\$20,229
5.0																		0	\$0	\$0	\$0.00	\$0				\$0
5.3		2	18					12				12	12					54	\$3,141	\$8,288	\$828.78	\$9,117				\$9
5.4		2	4	16	40		4											66	\$3,433	\$9,059	\$905.94	\$9,965			\$25,880	\$25,880
5.5			2	4	8								8					22	\$1,072	\$2,828	\$282.83	\$3,111			\$10,335	\$10,335
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		</																								

Exhibit 10-H1 Cost Proposal

Actual Cost-Plus-Fixed Fee Contracts



Prime Consultant



Subconsultant

Consultant

Quincy Engineering, Inc.

Project Name

Lake County - St. Helena Creek at Wardlaw Street Project (14C-I)

Project No.

Contract No.

N/A

Date

7/8/2022

DIRECT LABOR

Classification/Title	Name	Initials	Range	Hours	Initial Hourly Rate	Total
Senior Project Manager	Davis, Carolyn	CDD	\$60-\$120	26	\$ 92.70	\$ 2,410.20
Senior Engineer *	Vaggione, Matthew	MMV	\$50-\$120	50	\$ 75.73	\$ 3,786.50
Associate Engineer	Mitchell, Andrew	AKM	\$40-\$85	36	\$ 69.92	\$ 2,517.12
Engineering Designer II	Dixon, Mark	MAD	\$36-\$66	48	\$ 42.08	\$ 2,019.84
Senior Engineer	Young, Gregory	GRY	\$50-\$120	0	\$ 88.20	\$ -
Engineering Designer I	Zubarev, Aleksandr	AAZ	\$30-\$50	4	\$ 35.70	\$ 142.80
Associate Engineer	Wilson, Jared	JBW	\$40-\$85	12	\$ 53.05	\$ 636.60
Engineering Designer I	Johnson, Anna	AKJ	\$30-\$50	0	\$ 41.59	\$ -
Survey Manager	Irish, Seth	SHI	\$60-\$90	0	\$ 84.00	\$ -
Project Surveyor	Dabu, Alfonso	ADD	\$40-\$70	0	\$ 50.61	\$ -
CAD Manager	Maechler, Bob	BRM	\$34-\$70	12	\$ 54.25	\$ 651.00
CAD Tech	Kenny, Patrick	PSK	\$25-\$60	20	\$ 38.00	\$ 760.00
Project Manager	Acol, Desiree	DVA	\$27-\$55	0	\$ 38.46	\$ -
Senior Engineer	Ferguson, Robert	RGF	\$50-\$120	0	\$ 78.75	\$ -
Student Intern	Edgar, Mahala	MAE	\$18-\$26	0	\$ 21.00	\$ -
Student Intern	Clark, Olivia	OLC	\$18-\$26	0	\$ 21.00	\$ -
				208		\$ 12,924.06

LABOR COSTS

a) Subtotal Direct Labor Costs

\$12,924.06

b) Estimated Salary Increases for Multi-Year Project

\$210.25

(see calculation page attached)

c) TOTAL DIRECT LABOR COSTS [(a) + (b)] \$13,134.31

INDIRECT COSTS

d) Fringe Benefits (Rate: 39.00%):

e) Total Fringe Benefits [(c) x (d)] \$5,122.38

f) Overhead (Rate: 124.89%):

g) Overhead [(c) x (f)] \$16,403.44

h) General Administration (Rate: 0.0%):

i) Gen & Admin [(c) x (h)] \$0.00

j) TOTAL INDIRECT COSTS [(e) + (g) + (i)] \$21,525.82

FIXED FEE

k) Fixed Fee (10.0%):

l) TOTAL FIXED FEE [(c) + (j)] x (k) \$3,466.01

CONSULTANT'S OTHER DIRECT COSTS (ODC)

Travel (@ active IRS mileage rate)

miles @ \$0.585 \$0.00

Pier Diem/ Hotel

days @ \$150.00 \$0.00

Delivery

0 @ \$20.00 \$0.00

Vendor Reproduction

Vellum	@	\$0.00
8 1/2 X 11 Reproduction	@	\$0.00
11 X 17 Reproduction	@	\$0.00
Mounting Boards for Presentations	@	\$0.00
Newsletters (Translation and printing)	@	\$0.00

Subtotal Vendor Reproduction \$0.00

Title Report

0 @ \$0.00 \$0.00

Miscellaneous

\$0.00

m) TOTAL OTHER DIRECT COSTS \$0.00 \$0.00

n) SUBCONSULTANT COSTS (attach detailed cost proposal for each subconsultant)

Stantec | Far West

\$52,786.00

HDR | WRECO

\$36,364.32

0

\$0.00

0

\$0.00

0

\$0.00

0

\$0.00

0

\$0.00

0

\$0.00

0

\$0.00

\$89,150.32

\$89,150.32

o) TOTAL COST [(c) + (j) + (l) + (m) + (n)] \$127,276.46

NOTES:

- Key personnel marked with an asterisk (*).
- Employees subject to prevailing wage marked with two asterisks (**).
- Anticipated salary increases calculation (Item "b") on attached page.
- Note: Invoices will be based upon actual QEI hourly rates plus overhead at 142.95% plus prorated portion of fixed fee. Subconsultant and Direct Costs will be billed at actual cost. The overhead rate (ICR) shall remain fixed for the contract duration or until both parties agree to modify the rate in writing.

EXHIBIT 10-H1 COST PROPOSAL

PAGE 2 OF 3

**ACTUAL COST-PLUS-FIXED FEE CONTRACTS
(CALCULATIONS FOR ANTICIPATED SALARY INCREASES)**Consultant Quincy Engineering, Inc.Contract No. N/ADate 7/8/2022Ielena Creek at Wardlaw Street Project (14C-01)**1. Calculate Average Hourly Rate for 1st year of the contract (Direct Labor Subtotal divided by total hours)**

Direct Labor Subtotal per Cost Proposal	Total Hours per Cost Proposal		Avg Hourly Rate	5 Year Contract Duration
\$ 12,924.06	208	=	\$62.13	Year 1 Avg Hourly Rate

2. Calculate hourly rate for all years (Increase the Average Hourly Rate for a year by proposed escalation %)

Proposed Escalation =		5.0%			
Avg Hourly Rate		Proposed Escalation			
Year 1 \$62.13	+	2.5%	=	\$63.69	Year 1 Avg Hourly Rate
Year 2 \$63.69	+	5.0%	=	\$66.87	Year 2 Avg Hourly Rate
Year 3 \$66.87	+	5.0%	=	\$70.21	Year 3 Avg Hourly Rate
Year 4 \$70.21	+	5.0%	=	\$73.72	Year 4 Avg Hourly Rate
Year 5 \$73.72	+	5.0%	=	\$77.41	Year 5 Avg Hourly Rate

3. Calculate estimated hours per year (Multiply estimate % each year by total hours)

	Estimated % Completed Each Year		Total Hours per Cost Proposal		Total Hours per Year	
Year 1	35.00%	*	208.0	=	72.8	Estimated Hours Year 1
Year 2	65.00%	*	208.0	=	135.2	Estimated Hours Year 2
Year 3	0.00%	*	208.0	=	0.0	Estimated Hours Year 3
Year 4	0.00%	*	208.0	=	0.0	Estimated Hours Year 4
Year 5	0.00%	*	208.0	=	0.0	Estimated Hours Year 5
Total	100%		Total	=	208.0	

4. Calculate Total Costs including Escalation (Multiply Average Hourly Rate by the number of hours)

	Avg Hourly Rate (calculated above)		Estimated hours (calculated above)		Cost per Year	
Year 1	\$62.13	*	73	=	\$4,523.42	Estimated Hours Year 1
Year 2	\$63.69	*	135	=	\$8,610.89	Estimated Hours Year 2
Year 3	\$66.87	*	0	=	\$0.00	Estimated Hours Year 3
Year 4	\$70.21	*	0	=	\$0.00	Estimated Hours Year 4
Year 5	\$73.72	*	0	=	\$0.00	Estimated Hours Year 5
Total Direct Labor Cost with Escalation				=	\$13,134.31	
Direct Labor Subtotal before Escalation				=	\$12,924.06	
Estimated total of Direct Labor Salary Increase				=	\$210.25	Transfer to Page 1

NOTES:

- This assumes that an average of one half year will be worked at the rate on the cost proposal.

EXHIBIT 10-H1 COST PROPOSAL PAGE 3 OF 3


Certification of Direct Costs:

I, the undersigned, certify to the best of my knowledge and belief that all direct costs identified on the cost proposal(s) in this contract are actual, reasonable, allowable, and allocable to the contract in accordance with the contract terms and the following requirements:

- 1 Generally Accepted Accounting Principles (GAAP)
- 2 Terms and conditions of the contract
- 3 Title 23 United States Code Section 112 - Letting of Contracts
- 4 48 Code of Federal Regulations Part 31 - Contract Cost Principles and Procedures
- 5 23 Code of Federal Regulations Part 172 - Procurement, Management and Administration of Engineering and Design Related Service
- 6 48 Code of Federal Regulations Part 9904 - Cost of Accounting Standards Board (when applicable)

All costs must be applied consistently and fairly to all contracts. All documentation of compliance must be retained in the project files and be in compliance with applicable federal and state requirements. Costs that are noncompliant with the federal and state requirements are not eligible for reimbursement. Local governments are responsible for applying only cognizant agency approved or Caltrans accepted Indirect Cost Rate(s).

Prime Consultant or Subconsultant Certifying:

Name: R. Brent Lemon, P.E. Title *: Principal Engineer
Signature:  Date of Certification (mm/dd/yyyy): 01/04/2021
Email: brentl@quincyeng.com Phone Number: 916.368.9181
Address: 11017 Cobblerock Drive Suite 100 Rancho Cordova, CA 95670

*An individual executive or financial officer of the consultant's or subconsultant's organization at a level no lower than a Vice President or a Chief Financial Officer, or equivalent, who has authority to represent the financial information utilized to establish the cost proposal for the contract

List services the consultant is providing under the proposed contract:

List services here

EXHIBIT 10-H1 COST PROPOSAL PAGE 1 OF 2
ACTUAL COST-PLUS-FIXED FEE OR LUMP SUM (FIRM FIXED PRICE) CONTRACTS
(DESIGN, ENGINEERING AND ENVIRONMENTAL STUDIES) AMENDMENT #2

Note: Mark-ups are Not Allowed

☐ Prime Consultant
 ☒ Subconsultant
 ☐ 2nd Tier Subconsultant
Consultant Stantec Consulting Services Inc.Project No. Wardlaw Street at St Helena Cr Bridge, Lake C Contract No. DRLO-5914(088) Date 9/16/2022**DIRECT LABOR**

Classification/Title	Hours	Actual Hourly Rate	Total
Principal-In-Charge (Billing Level 17)	0	\$ 95.40	\$0.00
Sr. Project Manager (Billing Level 16)	12	\$ 87.25	\$1,047.00
Principal Professional (Billing Level 15)	30	\$ 80.72	\$2,421.60
Senior Professional II (Billing Level 14)	2	\$ 68.90	\$137.80
Senior Professional I (Billing Level 13)	12	\$ 55.39	\$664.68
Project Professional II (Billing Level 12)	8	\$ 53.00	\$424.00
Project Professional I (Billing Level 11)	6	\$ 45.75	\$274.50
Assoc. Project Professional (Billing Level 10)	24	\$ 39.73	\$953.52
Staff Professional II (Billing Level 9)	46	\$ 37.10	\$1,706.60
Assoc. Staff Professional (Billing Level 8)	0	\$ 31.64	\$0.00
Technician (Billing Level 7)	8	\$ 29.68	\$237.44
			\$0.00

LABOR COSTSTotal hours: 148a) Subtotal Direct Labor Costs \$7,867.14b) Anticipated Salary Increases (see page 2 for sample) \$213.83c) **TOTAL DIRECT LABOR COSTS [(a) + (b)]** \$8,080.97**FRINGE BENEFITS**d) Fringe Benefits (Rate 29.00%)e) **Total Fringe Benefits**[(c) x (d)] \$2,343.48**INDIRECT COSTS**f) Overhead (Rate: 89.00%)g) Overhead [(c) x (f)] \$7,192.06h) General and Administrative (Rate: 29.00%)i) Gen & Admin [(c) x (h)] \$2,343.48j) **Total Indirect Costs [(e) + (g) + (i)]** \$11,879.02**FEE (Profit)**q) (Rate: 10.0%)k) **TOTAL FIXED PROFIT [(c) + (j)] x (q)]** \$1,996.00**OTHER DIRECT COSTS (ODC)**

Description	Unit(s)	Unit Cost	Total
l) Travel/Mileage Costs (supported by consultant actual costs) (Itemized below)			\$710.00
m) Equipment Rental and Supplies (itemized below)			\$184.45
n) Escalation on Existing Remaining Budget (2019-2022)			\$4,488.72
o) Subconsultant Costs (detailed cost proposal attached for each subconsultant)			\$25,446.83

p) **Total Other Direct Costs [(l) + (m) + (n) + (o)]** \$30,830.00**TOTAL COST [(c) + (j) + (k) + (p)]** \$52,785.99

Note: The rates shown are through December 31, 2022 and we will apply an escalation rate of 3% for subsequent years.

ITEMIZATION - OTHER DIRECT COSTS (ODC)**Description**

l) Travel/Mileage Costs (supported by consultant actual costs)			
	Unit(s)	Unit Cost	Total
Mileage	400	\$0.575	\$230.00
Per Deim	3	\$150.000	\$450.00
Delivery	3	\$10.000	\$30.00
			\$0.00
			\$0.00
			\$0.00
			\$0.00
Subtotal (l)			\$710.00
m) Equipment Rental and Supplies (itemize)			
	Unit(s)	Unit Cost	Total
Black and white copies (8.5 x 11)	100	\$0.060	\$6.00
Black and white copies (11 x 17)	20	\$0.110	\$2.20
Color copies (8.5 x 11)	25	\$0.750	\$18.75
Color copies (11 x 17)	25	\$1.500	\$37.50
Graphics (Poster Boards)	0	\$45.000	\$0.00
Other Direct Cost, Info Center	0	\$250.000	\$0.00
Submeter GPS Usage (per day)	2	\$60.000	\$120.00
Miscellaneous			
Subtotal (m)			\$184.45
n) Permit Fees (itemize)			
	Unit(s)	Unit Cost	Total
	0	\$0.00	\$0.00
	0	\$0.00	\$0.00
	0	\$0.00	\$0.00
Subtotal (n)			\$0.00
o) Subconsultant Costs			
	Unit(s)	Unit Cost	Total
Far Western	T&M	\$	15,138.23
JRP Historical Consulting LLC	T&M	\$	10,308.60
	T&M		
	T&M		
	T&M		
Subtotal (o)			\$25,446.83

EXHIBIT 10-H COST PROPOSAL
ACTUAL COST-PLUS-FIXED FEE OR LUMP SUM (FIRM FIXED PRICE) CONTRACTS
 (CALCULATIONS FOR ANTICIPATED SALARY INCREASES)

Consultant Stantec Consulting Services Inc. Contract No. BRLO-5914(088) Date 9/16/2022
 Prime Consultant

1. Calculate Average Hourly Rate for 1st year of the contract (Direct Labor Subtotal divided by total hours)

Direct Labor <u>Subtotal</u> per Cost Proposal	Total Hours per Cost Proposal		Avg Hourly Rate	5 Year Contract Duration
\$7,867.14	148	=	\$53.16	Year 1 Avg Hourly Rate

2. Calculate hourly rate for all years (Increase the Average Hourly Rate for a year by proposed escalation %)

	Avg Hourly Rate		Proposed Escalation			
Year 1	\$53.16	+	3%	=	\$54.75	Year 2 Avg Hourly Rate
Year 2	\$54.75	+	3%	=	\$56.39	Year 3 Avg Hourly Rate
Year 3	\$56.39	+	3%	=	\$58.09	Year 4 Avg Hourly Rate
Year 4	\$58.09	+	3%	=	\$59.83	Year 5 Avg Hourly Rate

3. Calculate estimated hours per year (Multiply estimate % each year by total hours)

	Estimated % Completed Each Year		Total Hours per Cost Proposal		Total Hours per Year	
Year 1	30.00%	*	148.0	=	44.4	Estimated Hours Year 1
Year 2	50.00%	*	148.0	=	74.0	Estimated Hours Year 2
Year 3	20.00%	*	148.0	=	29.6	Estimated Hours Year 3
Year 4	0.00%	*	148.0	=	0.0	Estimated Hours Year 4
Year 5	0.00%	*	148.0	=	0.0	Estimated Hours Year 5
Total	100%		Total	=	148.0	

4. Calculate Total Costs including Escalation (Multiply Average Hourly Rate by the number of hours)

	Avg Hourly Rate (calculated above)		Estimated hours (calculated above)		Cost per Year	
Year 1	\$53.16	*	44	=	\$2,360.14	Estimated Hours Year 1
Year 2	\$54.75	*	74	=	\$4,051.58	Estimated Hours Year 2
Year 3	\$56.39	*	30	=	\$1,669.25	Estimated Hours Year 3
Year 4	\$58.09	*	0	=	\$0.00	Estimated Hours Year 4
Year 5	\$59.83	*	0	=	\$0.00	Estimated Hours Year 5
Total Direct Labor Cost with Escalation				=	\$8,080.97	
Direct Labor Subtotal before Escalation				=	\$7,867.14	
Estimated total of Direct Labor Salary Increase				=	\$213.83	Transfer to Page 1

EXHIBIT 10-H1 COST PROPOSAL**Certification of Direct Costs:**

I, the undersigned, certify to the best of my knowledge and belief that all direct costs identified on the cost proposal(s) in this contract are actual, reasonable, allowable, and allocable to the contract in accordance with the contract terms and the following requirements:

1. Generally Accepted Accounting Principles (GAAP)
2. Terms and conditions of the contract
3. Title 23 United States Code Section 112 - Letting of Contracts
4. 48 Code of Federal Regulations Part 31 - Contract Cost Principles and Procedures
5. 23 Code of Federal Regulations Part 172 - Procurement, Management, and Administration of Engineering and Design Related Service
6. 48 Code of Federal Regulations Part 9904 - Cost Accounting Standards Board (when applicable)

All costs must be applied consistently and fairly to all contracts. All documentation of compliance must be retained in the project files and be in compliance with applicable federal and state requirements. Costs that are noncompliant with the federal and state requirements are not eligible for reimbursement.

Local governments are responsible for applying only cognizant agency approved or Caltrans accepted Indirect Cost Rate(s).

Prime Consultant or Subconsultant Certifying:Name: Jim GrastyTitle*: Senior Vice PresidentSignature: James W. Grasty
Digitally signed by James W. Grasty
Date: 2022.09.19 06:59:26 -07'00'Date of Certification: 9/19/2022Email: jim.grasty@stantec.comPhone Number: (916) 669-5960Address: 555 Capitol Mall, Suite 650, Sacramento, CA 95814-4583

*An individual executive or financial officer of the consultant's or subconsultant's organization at a level no lower than a Vice President or a Chief Financial Officer, or equivalent, who has authority to represent the financial information utilized to establish the cost proposal for the contract.

List services the consultant is providing under the proposed contract:

Subconsultant to implement CEQA/NEPA process, technical studies, and permitting.

EXHIBIT 10-H1 SAMPLE COST PROPOSAL Page 1 of 3
ACTUAL COST-PLUS-FIXED FEE OR LUMP SUM (FIRM FIXED PRICE) CONTRACTS
 (DESIGN, ENGINEERING, AND ENVIRONMENTAL STUDIES)

Note: Mark-ups are Not Allowed

☐ Prime Consultant ☐ Subconsultant ☒ 2nd Tier Subconsultant
Subconsultant Far Western Anthropological Research Group, Inc.Project No. Wardlaw Street at St. Helena Creek Bridge RepContract No. TBDDate 12/2/21**DIRECT LABOR***Regular Employees*

Classification/Title	Name	Hours	Actual Hourly Rate	Total
Principal Investigator	Siskin, Barb	11	\$69.55	\$ 765.05
Principal Investigator	DeBaker, Cassidy	54	\$55.00	\$ 2,970.00
Principal Investigator	Scher, Naomi	4	\$51.50	\$ 206.00
GIS Supervisor	DeArmond, Shannon	1	\$55.00	\$ 55.00
GIS Senior Analyst	Karthauser, Chelsea	14	\$33.00	\$ 462.00
Production Director	Pardee, Michael	3	\$38.00	\$ 114.00
Production Specialist	Kramm, Jacqueline	6	\$30.56	\$ 183.36
Senior Archaeologist	Darcangelo, Mike	8	\$38.00	\$ 304.00
Staff Archaeologist	Ziogas, Eleni	8	\$30.00	\$ 240.00
Project Accountant	Chavez, Monika	6	\$36.00	\$ 216.00
Project Accountant	Green, Christina	2	\$27.82	\$ 55.64

LABOR COSTS (REGULAR EMPLOYEES)

a) Subtotal Direct Labor Costs

\$ 5,571.05

b) Anticipated Salary Increases (see page 2 for sample)

\$ 66.85

c) **TOTAL DIRECT LABOR COSTS [(a) + (b)]** \$ 5,637.90**FRINGE BENEFITS (REGULAR EMPLOYEES)**

d) Fringe Benefits Rate: 65.21%

e) **TOTAL FRINGE BENEFITS**

[(c) x (d)]

\$ 3,676.48

INDIRECT COSTS (REGULAR EMPLOYEES)

f) Overhead Rate: 32.03%

g) Overhead [(c) x (f)]

\$ 1,805.82

h) General and Administrative Rate: 32.83%

i) Gen & Admin [(c) x (h)]

\$ 1,850.92

j) **TOTAL INDIRECT COSTS [(e) + (g) + (i)]** \$ 7,333.22**FIXED FEE**k) **TOTAL FIXED PROFIT [(c) + (j) x fixed fee 10.00%]** \$ 1,297.11**l) CONSULTANT'S OTHER DIRECT COSTS (ODC) - ITEMIZE (Add additional pages if necessary)**

Description of Item	Quantity	Unit	Unit Cost	Total
Vehicle Rental (Day)	1	Day	\$70.00	\$ 70.00
Gasoline	--	At Cost	At Cost	\$ 50.00
Communication	--	At Cost	At Cost	\$ 150.00
Record Search	--	At Cost	At Cost	\$ 500.00
Reproduction	--	At Cost	At Cost	\$ 100.00

l) **TOTAL OTHER DIRECT COSTS** \$ 870.00m) **SUBCONSULTANT'S COSTS (Add additional pages if necessary)**m) **TOTAL SUBCONSULTANT'S COSTS** \$ -n) **TOTAL OTHER DIRECT COSTS [(l) + (m)]** \$ 870.00**TOTAL COST [(c) + (j) + (k) + (n)]** \$ 15,138.23**NOTES:**

- Key personnel must be marked with an asterisk (*) and employees that are subject to prevailing wage requirements must be marked with two asterisks (**). All Costs must comply with the Federal cost principles. Subconsultants will provide their own cost proposals.
- The cost proposal format shall not be amended. Indirect cost rates shall be updated on an annual basis in accordance with the consultant's annual accounting period and established by a cognizant agency or accepted by Caltrans.
- Anticipated salary increase calculation (page 2) must accompany.

EXHIBIT 10-H1 SAMPLE COST PROPOSAL Page 2 of 3
ACTUAL COST-PLUS-FIXED FEE OR LUMP SUM (FIRM FIXED PRICE) CONTRACTS
 (CALCULATIONS FOR ANTICIPATED SALARY INCREASES)

Subconsultant Far Western Anthropological Research Group, Inc.Contract No. TBDDate December 2, 2021**1. Calculate Average Hourly Rate for 1st year of the contract (Direct Labor Subtotal divided by total hours)**

Direct Labor	Total Hours	Avg. Hourly	5 Year Contract
Subtotal	per Cost Proposal	Rate	Duration
per Cost Proposal	117		Year 1 Avg Hourly Rate
\$5,571.05	=	\$47.62	

2. Calculate hourly rate for all years (Increase the Average Hourly Rate for a year by proposed escalation %)

	Avg Hourly Rate		Proposed Escalation			
Year 1	\$47.62	+	0%	=	\$47.62	Year 1 Avg Hourly Rate
Year 2	\$47.62	+	3%	=	\$49.04	Year 2 Avg Hourly Rate
Year 3	\$49.04	+	3%	=	\$50.52	Year 3 Avg Hourly Rate
Year 4	\$50.52	+	3%	=	\$52.03	Year 4 Avg Hourly Rate
Year 5	\$52.03	+	3%	=	\$53.59	Year 5 Avg Hourly Rate

3. Calculate estimated hours per year (Multiply estimate % each year by total hours)

	Estimated %		Total Hours		Total Hours	
	Completed Each		per Cost Proposal		per Year	
Year 1	60%	0	117	=	70.2	Estimated Hours Year 1
Year 2	40%	*	117	=	46.8	Estimated Hours Year 2
Year 3	0%	*	117	=	0.0	Estimated Hours Year 3
Year 4	0%	*	117	=	0.0	Estimated Hours Year 4
Year 5	0%	*	117	=	0.0	Estimated Hours Year 5
Total	100%		Total	=	117.0	

4. Calculate Total Costs including Escalation (Multiple Average Hourly Rate by the number of hours)

	Avg Hourly Rate		Estimated Hours		Cost per Year	
	(calculated above)		(calculated above)			
Year 1	\$47.62	*	70	=	\$3,342.63	Estimated Hours Year 1
Year 2	\$49.04	*	47	=	\$2,295.27	Estimated Hours Year 2
Year 3	\$50.52	*	0	=	\$0.00	Estimated Hours Year 3
Year 4	\$52.03	*	0	=	\$0.00	Estimated Hours Year 4
Year 5	\$53.59	*	0	=	\$0.00	Estimated Hours Year 5
			Total Direct Labor Cost with Escalation	=	\$5,637.90	
			Direct Labor Subtotal before Escalation	=	\$5,571.05	
			Estimated Total of Direct Labor Salary Increase	=	\$66.85	Transfer to Page 1

Notes:

1. This is not the only way to estimate salary increases. Other methods will be accepted if they clearly indicate the % increase, the # of years of the contract, and a breakdown of the labor to be performed each year.
2. An estimation that is based on direct labor multiplied by salary % multiplied by salary increase % multiplied by the # of years is not acceptable. (i.e., \$250,000 x 2% x 5 yrs = \$25,000 is not an acceptable methodology)
3. This assumes that one year will be worked at the rate on the cost proposal before salary increases are granted.
4. Calculations for anticipated salary escalation must be provided.

EXHIBIT 10-H1 COST PROPOSAL Page 1 of 3
COST-PLUS-FIXED FEE OR LUMP SUM OR FIRM FIXED PRICE CONTRACTS
 (DESIGN, ENGINEERING, AND ENVIRONMENTAL STUDIES)

Note: Mark-ups are Not Allowed

☐

Prime Consultant

☒

Subconsultant

☐

2nd Tier Subconsultant

Consultant: JRP Historical Consulting, LLC

Project No. Federal Aid Project No. BRLO 5914 (088)

Contract No. _____ County of Lake _____

Date: 12/2/2021

Direct Labor

Classification/Title	Name	Hours	Actual Hourly Rate	Total
Principal*	Christopher McMorris	32.0	\$72.46	\$2,318.72
Historian / Architectural Historian*	Joseph Freeman	32.0	\$36.51	\$1,168.32
Research Assistant*	Abigail Lawton	8.0	\$25.00	\$200.00
GIS / Graphics Technician*	Rebecca Flores	8.0	\$29.02	\$232.16
Contracts Manager*	Kia Larson	2.0	\$30.59	\$61.18
Assistant Contracts Manager*	Jennifer Wilson	4.0	\$25.00	\$100.00
Total		86.0		\$4,080.38

LABOR COSTS

a) Subtotal Direct Labor Costs

\$4,080.38

b) Anticipated Salary Increases (see page 2 for calculation)

\$147.63

c) **TOTAL DIRECT LABOR COSTS** [(a)+(b)] \$4,228.01**INDIRECT COSTS**

d) Fringe Benefits (Rate):

49.910%

e) Total Fringe Benefits [(c) × (d)]

\$2,110.20

f) Overhead (Rate):

30.580%

g) Overhead [(c) × (f)]

\$1,292.92

h) General and Administrative (Rate)

40.420%

i) Gen & Admin [(c) × (h)]

\$1,708.96

j) **TOTAL INDIRECT COSTS** [(e) +(g) + (i)] \$5,112.08**FIXED FEE**k) **TOTAL FIXED PROFIT**

10%

\$934.01

[(c) + (j)] × Fixed Fee

l) **CONSULTANT'S OTHER DIRECT COSTS (ODC) - ITEMIZE (Add additional pages if necessary)**

Description of Item	Quantity	Unit	Unit Cost	Total
Photocopies	25	Each	\$0.18	\$4.50
Postage / Shipping	2	Each	\$15.00	\$30.00

l) **TOTAL OTHER DIRECT COSTS** \$34.50m) **SUBCONSULTANT'S COSTS (add additional pages if necessary)**

Subconsultant 1: _____

Subconsultant 2: _____

Subconsultant 3: _____

Tier Subconsultant 4: _____

m) **TOTAL 2nd TIER SUBCONSULTANT'S COSTS** \$0.00n) **TOTAL OTHER DIRECT COSTS INCLUDING 2nd TIER SUBCONSULTANTS** [(l) + (m)] \$34.50**TOTAL COST** [(c) + (j) + (k) + (n)] \$10,308.60**NOTES:**

- Key Personnel must be marked with an asterisk (*) and employees that are subject to prevailing wage requirements must be marked with two asterisks (**). All costs must comply with the Federal Cost Principles. Subconsultants will provide their own cost proposals.
- The cost proposal format shall not be amended. Indirect cost rates shall be updated on an annual basis in accordance with the consultant's annual accounting period and established by a cognized agency or accepted by Caltrans.
- Anticipated salary increases calculation (page 2) must accompany.

EXHIBIT 10-H COST PROPOSAL Page 2 of 3
COST-PLUS-FIXED FEE OR LUMP SUM OR FIRM FIXED PRICE CONTRACTS
 (CALCULATIONS FOR ANTICIPATED SALARY INCREASES)

1. Calculate Average Hourly Rate for 1st year of the contract (Direct Labor Subtotal divided by total hours)

Direct Labor Subtotal per Cost Proposal	Total Hours per Cost Proposal		Avg Hourly Rate	5 Year Contract Duration
\$4,080.38	86	=	\$47.45	Year 1 Avg Hourly Rate

2. Calculate hourly rate for all years (Increase the Average Hourly Rate for a year by proposed escalation %)

	Avg Hourly Rate		Proposed Escalation			
Year 1	\$47.45	+	3.00%	=	\$48.87	Year 2 Avg Hourly Rate
Year 2	\$48.87	+	3.00%	=	\$50.34	Year 3 Avg Hourly Rate
Year 3	\$50.34	+	3.00%	=	\$51.85	Year 4 Avg Hourly Rate
Year 4	\$51.85	+	3.00%	=	\$53.40	Year 5 Avg Hourly Rate

3. Calculate estimated hours per year (Multiply estimate % each year by total hours)

	Estimated % Completed Each Year		Total Hours per Cost Proposal		Total Hours per Year	
Year 1	0.00%	*	86.0	=	0.0	Estimated Hours Year 1
Year 2	80.00%	*	86.0	=	68.8	Estimated Hours Year 2
Year 3	20.00%	*	86.0	=	17.2	Estimated Hours Year 3
Year 4	0.00%	*	86.0	=	0.0	Estimated Hours Year 4
Year 5	0.00%	*	86.0	=	0.0	Estimated Hours Year 5
Total	100%		Total	=	86.0	

4. Calculate Total Costs including Escalation (Multiply Average Hourly Rate by the number of hours)

	Avg Hourly Rate (calculated above)		Estimated hours (calculated above)		Cost per Year	
Year 1	\$47.45	*	0.0	=	\$0.00	Estimated Hours Year 1
Year 2	\$48.87	*	68.8	=	\$3,362.23	Estimated Hours Year 2
Year 3	\$50.34	*	17.2	=	\$865.78	Estimated Hours Year 3
Year 4	\$51.85	*	0.0	=	\$0.00	Estimated Hours Year 4
Year 5	\$53.40	*	0.0	=	\$0.00	Estimated Hours Year 5
Total Direct Labor Cost with Escalation				=	\$4,228.01	
Direct Labor Subtotal before Escalation				=	\$4,080.38	
Estimated total of Direct Labor Salary Increase				=	\$147.63	Transfer to Page 1

NOTES:

- 1 This is not the only way to estimate salary increases. Other methods will be accepted if they clearly indicate the % increase, the # of years of the contract, and a breakdown of the labor to be performed each year.
- 2 An estimation that is based on direct labor multiplied by salary increase % multiplied by the # of years is not acceptable. (i.e. \$250,000 x 2% x 5 yrs = \$25,000 is not an acceptable methodology)
- 3 This assumes that one year will be worked at the rate on the cost proposal before salary increases are granted.
- 4 Calculations for anticipated salary escalation must be provided.

EXHIBIT 10-H1 COST PROPOSAL Page 3 of 3

Certification of Direct Costs:

I, the undersigned, certify to the best of my knowledge and belief that all direct costs identified on the cost proposal(s) in this contract are actual, reasonable, allowable, and allocable to the contract in accordance with the contract terms and the following requirements:

1. Generally Accepted Accounting Principles (GAAP)
2. Terms and conditions of the contract
3. [Title 23 United States Code Section 112](#) - Letting of Contracts
4. [48 Code of Federal Regulations Part 31](#) - Contract Cost Principles and Procedures
5. [23 Code of Federal Regulations Part 172](#) - Procurement, Management, and Administration of Engineering and Design Related Service
6. [48 Code of Federal Regulations Part 9904 - Cost Accounting Standards Board](#) (when applicable)

All costs must be applied consistently and fairly to all contracts. All documentation of compliance must be retained in the project files and be in compliance with applicable federal and state requirements. Costs that are noncompliant with the federal and state requirements are not eligible for reimbursement.

Local governments are responsible for applying only cognizant agency approved or Caltrans accepted Indirect Cost Rate(s).

Prime Consultant or Subconsultant Certifying:

Name: Christopher McMorris Title*: Principal

Signature:  Date of Certification (mm/dd/yyyy): 12/3/2021

Email: cmcmorris@jrphistorical.com Phone Number: 530-757-2521

Address: JRP Historical Consulting, LLC, 2850 Spafford Street, Davis, CA 95618

*An individual executive or financial officer of the consultant's or subconsultant's organization at a level no lower than a Vice President or a Chief Financial Officer, or equivalent, who has authority to represent the financial information utilized to establish the cost proposal for the contract.

List services the consultant is providing under the proposed contract:

Historic resources compliance documentation and services.

EXHIBIT 10-H1 COST PROPOSAL
COST-PLUS-FIXED-FEE OR LUMP SUM OR FIRM FIXED PRICE CONTRACTS
 (DESIGN, ENGINEERING AND ENVIRONMENTAL STUDIES)

Page 1 of 3

Note: Mark-ups are Not Allowed

☐ Prime Consultant ☒ Subconsultant ☐ 2nd Tier Subconsultant
Consultant: HDR Engineering, Inc.Project No.: Wardlaw Street over Saint Helena Creek
Bridge Replacement ProjectContract No.: _____ Date: 9/15/2022**DIRECT LABOR**

Classification/Title	Name	Range	Hours	Actual Hourly Rate	Total
Principal Engineer	Staff	\$105-125	7	\$ 115.39	\$ 807.73
Supervising Engineer	Staff	\$85-110	0	\$ 92.80	\$ -
Senior Engineer	Staff	\$50-90	77	\$ 56.49	\$ 4,349.73
Associate Engineer	Staff	\$35-65	93	\$ 51.30	\$ 4,770.90
Staff Engineer	Staff	\$30-50	0	\$ 47.50	\$ -
Senior Env. Scientist	Staff	\$45-55	0	\$ 52.50	\$ -
Env. Scientist II	Staff	\$35-50	0	\$ 46.25	\$ -
Env. Scientist I	Staff	\$25-40	54	\$ 39.30	\$ 2,122.20
Senior Engineering Geologist	Staff	\$75-90	0	\$ 86.25	\$ -
Senior Geotechnical Engineer	Staff	\$65-80	0	\$ 76.25	\$ -
Senior Geologist	Staff	\$45-75	0	\$ 67.50	\$ -
Geologist II	Staff	\$35-55	32	\$ 40.10	\$ 1,283.20
Geologist I	Staff	\$25-40	0	\$ 36.25	\$ -
Senior Technician	Staff	\$30-45	4	\$ 40.14	\$ 160.56
Technical Editor/Office Administrator	Staff	\$30-45	12	\$ 37.33	\$ 447.96
Project Coordinator/project Accountant	Staff	\$25-45	4	\$ 42.48	\$ 169.92

LABOR COSTS

a) Subtotal Direct Labor Costs

\$ 14,112.20

b) Anticipated Salary Increases (see page 2)

\$ 296.36

c) **TOTAL DIRECT LABOR COSTS [(a) + (b)]** \$ **14,408.56****INDIRECT COSTS**

d) Fringe Benefits Rate:

51.20%

e) Total Fringe Benefits [(c) x (d)]

\$ 7,377.18

f) Overhead Rate:

43.97%

g) Overhead [(c) x (f)]

\$ 6,335.44

h) General and Administrative Rate:

33.32%

i) Gen & Admin [(c) x (h)]

\$ 4,800.93

j) **TOTAL INDIRECT COSTS [(e) + (g) + (i)]** \$ **18,513.55****FIXED FEE**k) **TOTAL FIXED FEE [(c) + (j)]**

x fixed fee

10.00%

\$ **3,292.21****l) CONSULTANT'S OTHER DIRECT COSTS (ODC) – ITEMIZE (Add additional pages if necessary)**

Description of Item	Quantity	Unit(s)	Unit Cost	Total
Travel/Mileage/Vehicle (supported by consultant actual costs)	240	Miles	\$ 0.625	\$ 150.00
Reproductions		EA	\$ -	\$ -
Overnight Delivery/Shipments		EA	\$ -	\$ -
Laboratory Testing - Non-DBE		LS	\$ -	\$ -
Drilling and Field Sampling - Non-DBE		LS	\$ -	\$ -
Traffic Control Non-DBE		LS	\$ -	\$ -
Potholing & Roadway Patching		LS	\$ -	\$ -

l) **TOTAL OTHER DIRECT COSTS** \$ **150.00****m) SUBCONSULTANTS' COSTS (Add additional pages if necessary)**

Subconsultant 1:

\$ -

m) **TOTAL SUBCONSULTANTS' COSTS** \$ **-**n) **TOTAL OTHER DIRECT COSTS INCLUDING SUBCONSULTANTS [(l) + (m)]** \$ **150.00****TOTAL COST [(c) + (j) + (k) + (n)]** \$ **36,364.32****NOTES:**

1. Key personnel must be marked with an asterisk (*) and employees that are subject to prevailing wage requirements must be marked with two asterisks (**). All costs must comply with the Federal cost principles. Subconsultants will provide their own cost proposals.
2. The cost proposal format shall not be amended. Indirect cost rates shall be updated on an annual basis in accordance with the consultant's annual accounting period and established by a cognizant agency or accepted by Caltrans.
3. Anticipated salary increases calculation (page 2) must accompany.

EXHIBIT 10-H1 COST PROPOSAL

Page 2 of 3

COST-PLUS-FIXED-FEE OR LUMP SUM OR FIRM FIXED PRICE CONTRACTS

(CALCULATIONS FOR ANTICIPATED SALARY INCREASES)

1. Calculate Average Hourly Rate for 1st year of the contract (Direct Labor Subtotal divided by total hours)

Direct Labor Subtotal per Cost Proposal	Total Hours per Cost Proposal		Avg Hourly Rate	5 Year Contract Duration Year 1 Avg Hourly Rate
\$14,112.20	282.5	=	49.95	

2. Calculate hourly rate for all years (Increase the Average Hourly Rate for a year by proposed escalation %)

	Avg Hourly Rate		Proposed Escalation			
Year 1	\$49.95	+	3.5%	=	\$51.70	Year 2 Avg Hourly Rate
Year 2	\$51.70	+	3.5%	=	\$53.51	Year 3 Avg Hourly Rate
Year 3	\$53.51	+	3.5%	=	\$55.39	Year 4 Avg Hourly Rate
Year 4	\$55.39	+	3.5%	=	\$57.32	Year 5 Avg Hourly Rate

3. Calculate estimated hours per year (Multiply estimate % each year by total hours)

	Estimated % Completed Each Year		Total Hours per Cost Proposal		Total Hours per Year	
Year 1	40.0%	*	282.50	=	113.00	Estimated Hours Year 1
Year 2	60.0%	*	282.50	=	169.50	Estimated Hours Year 2
Year 3	0.0%	*	282.50	=	0.00	Estimated Hours Year 3
Year 4	0.0%	*	282.50	=	0.00	Estimated Hours Year 4
Year 5	0.0%	*	282.50	=	0.00	Estimated Hours Year 5
Total	100%		Total	=	282.5	

4. Calculate Total Costs including Escalation (Multiply Average Hourly Rate by the number of hours)

	Avg Hourly Rate (calculated above)		Estimated hours (calculated above)		Cost per Year	
Year 1	\$49.95	*	113.00	=	\$5,644.88	Estimated Hours Year 1
Year 2	\$51.70	*	169.50	=	\$8,763.69	Estimated Hours Year 2
Year 3	\$53.51	*	0.00	=	\$0.00	Estimated Hours Year 3
Year 4	\$55.39	*	0.00	=	\$0.00	Estimated Hours Year 4
Year 5	\$57.32	*	0.00	=	\$0.00	Estimated Hours Year 5
Total Direct Labor Cost with Escalation				=	\$14,408.57	
Direct Labor Subtotal before Escalation				=	\$14,112.20	
Estimated total of Direct Labor Salary Increase				=	\$296.37	Transfer to Page 1

NOTES:

1. This is not the only way to estimate salary increases. Other methods will be accepted if they clearly indicate the % increase, the # of years of the contract, and a breakdown of the labor to be performed each year.
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(i.e. \$250,000 x 2% x 5 yrs = \$25,000 is not an acceptable methodology)
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EXHIBIT 10-H1 COST PROPOSAL

Page 3 of 3

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I, the undersigned, certify to the best of my knowledge and belief that all direct costs identified on the cost proposal(s) in this contract are actual, reasonable, allowable, and allocable to the contract in accordance with the contract terms and the following requirements:

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2. Terms and conditions of the contract
3. [Title 23 United States Code Section 112 - Letting of Contracts](#)
4. [48 Code of Federal Regulations Part 31 - Contract Cost Principles and Procedures](#)
5. [23 Code of Federal Regulations Part 172 - Procurement, Management, and Administration of Engineering and Design Related Service](#)
6. [48 Code of Federal Regulations Part 9904 - Cost Accounting Standards Board \(when applicable\)](#)

All costs must be applied consistently and fairly to all contracts. All documentation of compliance must be retained in the project files and be in compliance with applicable federal and state requirements. Costs that are noncompliant with the federal and state requirements are not eligible for reimbursement.

Local governments are responsible for applying only cognizant agency approved or Caltrans accepted Indirect Cost Rate(s).

Prime Consultant or Subconsultant Certifying:Name: Han-Bin Liang, PhD, PE, QSD/PTitle: Vice PresidentSignature: Date of Certification (mm/dd/yyyy): 9/15/2022Email: hanbin.liang@hdrinc.comPhone Number: 925.395.9530Address: 1243 Alpine Road, Suite 108, Walnut Creek, CA 94596

*An individual executive or financial officer of the consultant's or subconsultant's organization at a level no lower than a Vice President or a Chief Financial Officer, or equivalent, who has authority to represent the financial information utilized to establish the cost proposal for the contract.

List services the consultant is providing under the proposed contract:

HDR will prepare Stormwater Control Plan and perform the temporary creek diversion system sizing for the project.