

**SECOND AMENDMENT
PROFESSIONAL SERVICES AGREEMENT
BY AND BETWEEN
COUNTY OF HUMBOLDT
AND LOCHNER/ARMSTRONG CONSULTANTS, INC.**

**PROJECT NAME: CALIFORNIA REDWOOD COAST-HUMBOLDT COUNTY
AIRPORT (ACV) RECONSTRUCT/RELOCATE TAXIWAY A (DESIGN)**

This Second Amendment to California Redwood Coast-Humboldt County Airport (ACV) Reconstruct/Relocate Taxiway A (Design) Professional Services Agreement (the "Agreement") dated September 10, 2024, by and between the County of Humboldt, a political subdivision of the State of California, hereinafter referred to as "COUNTY," and Armstrong Consultants, Inc., hereinafter referred to as "CONSULTANT," is entered this _____ day of June, 2026.

WHEREAS, on September 10, 2024, COUNTY and CONSULTANT entered into a Professional Services Agreement regarding final design for the reconstruction/relocation of ACV Taxiway A; and

WHEREAS, COUNTY and CONSULTANT now desires to amend CONSULTANT's scope of work to include final design, manage bidding and construction period services, and conduct project closeout; and

WHEREAS, COUNTY and CONSULTANT now desire to amend the Agreement to extend the term set forth therein; and

WHEREAS, COUNTY and CONSULTANT now desires to amend the Agreement to increase the compensation for additional services.

NOW THEREFORE, the parties mutually agree as follows:

Section 1 - DESCRIPTION OF SERVICES is hereby amended to read as follows:

1. DESCRIPTION OF SERVICES

CONSULTANT hereby agrees to provide the services described in Exhibit A – Scope of Services and Schedule of Rates, which is attached hereto and incorporated herein by reference as if set forth in full. In providing such services, CONSULTANT agrees to fully cooperate.

Section 2 - TERM is hereby amended to read as follows:

2. TERM: This Agreement shall begin upon September 10, 2024, as noted above, and shall remain in full force and effect up to and including June 30, 2027, unless sooner terminated as provided herein.

Section 4 – COMPENSATION is hereby amended to read as follows:

4. COMPENSATION

- A. Maximum Amount Payable. The maximum amount payable by COUNTY for any and all services provided, and costs and expenses incurred, pursuant to the terms and conditions of this Agreement in the total amount of One Million Nine Hundred Seventy Thousand Six Hundred Thirty-One Dollars (\$1,970,631.00). In no event shall the maximum amount paid under this Agreement exceed this amount.
- B. The original agreement signed September 10, 2024, for design services was Nine Hundred Three Thousand Five Hundred Forty Dollars (\$903,540.00).

The second amendment to this agreement for final design, manage bidding and construction period services, and conduct project closeout is One Million Sixty-Seven Thousand Ninety-One Dollars (\$1,067,091.00).

CONSULTANT hereby agrees to perform any and all services required by this Agreement for an amount not to exceed such maximum dollar amount. However, if local, state or federal funding or allowance rates are reduced or eliminated, COUNTY may, by amendment, reduce the maximum amount payable hereunder or terminate this Agreement as set forth herein.

- D. Schedule of Rates. The specific rates and costs applicable to this Agreement are set forth in Exhibit A – Scope of Services and Schedule of Rates, attached hereto and incorporated herein by reference as if set forth in full.

[SIGNATURES ON FOLLOWING PAGE]

IN WITNESS WHEREOF, the parties hereto have entered into this Second Amendment as of the first date written above.

TWO SIGNATURES ARE REQUIRED FOR CORPORATIONS:

*(1) CHAIRPERSON OF THE BOARD, PRESIDENT, OR VICE PRESIDENT; AND
(2) SECRETARY, CHIEF FINANCIAL OFFICER OR ASSISTANT TREASURER.*

LOCHNER/ARMSTRONG CONSULTANTS, INC.

By: Erik Vliek
Erik Vliek (Jun 30, 2026 13:44:06 MDT)

Date: 06/30/2026

Name: Erik Vliek

Title: Business / Operations Manager

By: _____

Date: _____

Name: _____

Title: _____

COUNTY OF HUMBOLDT:

By: 
Justin Hopman (Jun 30, 2026 12:24:32 PDT)

Date: 06/30/2026

Director of Aviation

(Pursuant to the authority delegated by the
Humboldt County Board of Supervisors on
September 10, 2024, Item 24-1295)

**EXHIBIT A – SCOPE OF SERVICES
OF THE
PROFESSIONAL SERVICES AGREEMENT
BETWEEN SPONSOR AND ENGINEER**

FURTHER DESCRIPTION OF SERVICES OF ENGINEER

1. This Attachment is made a part of and incorporated by reference into the Professional Services Agreement between **COUNTY OF HUMBOLDT, CALIFORNIA (Sponsor)** and **LOCHNER (Engineer)** providing for professional engineering services. The Services of Engineer as described in the Agreement are amended or supplemented as indicated below and the time periods for the performance of certain services are stipulated as indicated below.

2. **LOCATION** – California Redwood Coast – Humboldt County Airport (ACV) – Arcata, California

3. **WORK PROGRAM** – Attached

Element 1 – Reconstruct/Relocate Taxiway A (construct)

4. **FEES** - The fees will be as noted below. (All lump sums)

Element 1 – Project Development & Administration \$50,200.00

Element 1 – Preliminary Design (Not Used)

Element 1 – Final Design (Not Used)

Element 1 - Bidding Services \$14,520.00

Element1 - Construction Period Services

A. Construction Administration Services \$107,120.00

B. Construction Observation Services \$441,570.00

Element 1 - Project Closeout \$23,600.00

Element I – Special Services

Acceptance Testing \$286,741.00

Rare Plant Salvage, Propagule Procurement, and Installation Services \$40,744.00

Biological Resources Impact Assessment and Mitigation Plan \$22,500.00

Electrical Engineering Const. Admin. \$80,096.00

Engineering Total **\$1,067,091.00**

SPONSOR:
COUNTY OF HUMBOLT, CALIFORNIA

ENGINEER:
LOCHNER


Justin Hopman (Jun 30, 2026 12:24:32 PDT)
Justin Hopman, Director of Aviation


Erik Vliek (Jun 30, 2026 13:44:06 MDT)
Erik Vliek, Business Manager

I. ELEMENT I - PROJECT DEVELOPMENT AND ADMINISTRATION

The project development and administration phase is intended to complete the necessary preliminary actions required to initiate and manage the project in accordance with established Federal, State and Local policies and procedures.

Activities include:

1. Develop preliminary cost estimates and conceptual layout exhibits required for preliminary project actions such as scoping, grant applications, and other preliminary documents.
2. Develop and submit a detailed Scope of Work for review and approval. Upon submittal, the Engineer will solicit feedback from the Sponsor, State Aeronautics, and FAA and refine the detailed Scope of Work based on feedback received. This task assumes one round of edits based on Sponsor input and a separate round of edits based on FAA and State input.
3. Following approval of the detailed Scope of Work, the Engineer will prepare a detailed fee estimate showing an hourly breakdown of staff resources required for each task, including incidental expenses related to travel, printing, and/or shipping.
4. Coordinate fee proposals from any required subconsultants needed to perform services defined in the detailed Scope of Work. Work includes developing a request for proposal packet for each subconsultant service that clearly defines the activities required.
5. Prepare appropriate documents and assist the Sponsor with obtaining an Independent Fee Review based on the approved detailed Scope of Work.
6. Conduct fee negotiations with the Sponsor and assist in preparing a Record of Negotiations to document the independent fee review, if required, and any subsequent fee negotiations.
7. Incorporate final detailed Scope of Work and negotiated fees into a final Agreement for Professional Services and coordinate final approval and signature with the Sponsor.
8. Prepare Preliminary FAA Grant Application and submit to Sponsor for signature and submittal. Application packet will include the following:
 - a. Prepare Preliminary Grant Application Checklist (CA ONLY)
 - b. Form 424, Application for Federal Assistance
 - c. Form 5100-100
 - d. Program Narrative
 - e. Project Cost Estimate
 - f. Airport Sponsor Assurances
 - g. Project Sketch clearly identifying major work items
 - h. Exhibit "A" Property Map
 - i. Standard DOT Title VI Assurance
 - j. Sponsor Certification for Project Plans and Specifications
 - k. Sponsor Certification for Selection of Consultants
 - l. Sponsor Certification for Disclosure of Potential Conflicts of Interest
 - m. Sponsor Certification for Equipment and Construction Contracts
 - n. Current listing of FAA Advisory Circulars for AIP/PFC Projects
 - o. Sponsor Certification for Drug-Free Workplace
 - p. Title VI Pre-award Sponsor Checklist

9. Prepare monthly invoicing and FAA grant drawdown packets. In addition to the Engineer's invoices, the Engineer will incorporate other eligible projects expense invoices provided by the Sponsor in the packet. The Sponsor will be required to complete the payment reimbursement through the FAA e-invoicing system and the State process.
10. Project Management and Administration. Project management and administration includes coordination between Engineer staff, Sponsor, State, and FAA that isn't related to a specific task but is essential to the project process. This work includes:
 - a. Weekly internal progress meetings with the design team.
 - b. Conduct regular coordination meetings with Sponsor, State, and FAA. It is anticipated that these meetings will be held monthly, last approximately 1 hour, and be conducted via videoconference.
 - c. Drafting project correspondence for Sponsor's use in coordination with State and FAA.
 - d. Perform the business aspects of the project.
 - e. Perform the grant administration for the project.
11. Prepare and Coordinate Subconsultant Agreements. Work includes coordinating on-site subconsultant tasks with the appropriate Sponsor representative.

II. ELEMENT I - PRELIMINARY DESIGN (NOT USED)

III. ELEMENT I - FINAL DESIGN (NOT USED)

IV. ELEMENT I - BIDDING SERVICES

****This was not captured in the Design Phase Scope of Services – capturing in this scope of work***

During the bidding phase of the project, the Engineer will assist the Sponsor in advertising and letting the project for bid. Engineer will assist in dialogue with potential bidders to quantify bidder questions assist Sponsor in attaining economic bids. Activities outlined below and the fees listed on pages 1-2 cover one iteration of the bidding process. Preparing multiple bid processes, packages, or re-bidding may incur additional or repeated services.

Activities include:

1. Assist the Sponsor with advertising and interpretation of the project requirements. Plans and specifications will be available via the website of Lochner. The Sponsor, State, and FAA will be given a digital copy of the final plans, specifications and contract documents.
2. Provide technical assistance and recommendations to the Sponsor during construction bidding.
3. Attend and assist with pre-bid conference. Answer Contractor questions and issue necessary clarifications and addenda. The pre-bid conference will be held in-person by the Project Manager and Design Engineer.
4. Provide technical assistance as requested by the Sponsor during the bid opening process (virtual).
5. Prepare an abstract of bids, perform necessary review of the bids to determine responsiveness, and prepare award recommendation letter.
6. Update preliminary Federal Grant Application prepared during Project Development phase based on bids. The Engineer will submit the application to the Sponsor for approval and signatures.

7. Assist in award notification to successful bidder and assist in notification to unsuccessful bidders. The DBE goal and all bidding requirements will be reviewed for responsiveness. Any issues or concerns that arise from the bidding documents will be brought to the attention of the Sponsor for clarification.

V. ELEMENT I – CONSTRUCTION PERIOD SERVICES

During the construction phase of the project, the Engineer will assist the Sponsor with monitoring, documenting progress for quality and cost control and overall grant administration during construction.

Activities include:

A. Construction Administration Services

1. Coordinate construction contract documents for successful bidder, including contract agreement, bond forms, certificates of inclusion, and Notice to Proceed. Review Contractor's bonds, insurance certificates, construction schedules. Review Contractor's sub-contracts.
2. Provide Sponsor and FAA with digital copies of the Contract Documents, Specifications, and Construction Plans. Provide Contractor with a digital copy of the Contract Documents, Specifications, and Construction Plans; complete with all addenda.
3. Review and accept the Contractor's Safety Plan Compliance Documents prior to issuing the Notice to Proceed.
4. Coordinate a Construction Management Plan with the Contractor prior to paving operations commencing.
5. Conduct pre-construction conference. The pre-construction conference will be held on-site and will be attended by the Project Manager, Design Engineer, and Resident Project Representative (RPR). RPR's fee will be covered in Section B. Construction Observation Services.
6. Identify local survey control points used for project design and layout. Engineering staff will assist, as necessary, the RPR and Contractor's surveyor during construction by compiling and sending supplemental information regarding issues arising related to construction surveying. Work may include developing alternative survey control based on site conditions discovered during construction and/or findings of the Contractor's surveyor.
7. Provide technical assistance and recommendations to the Sponsor during construction. This item also includes daily construction coordination from the office that does not fit in another item such as phone calls to and from the Contractor, RPR and Owner for project updates, questions, and instructions. This is based primarily on 4-hours per week for Project Manager, 2-hours per week for design engineer.
8. Construction Site Visits. This item includes four (4) additional trip for Element 1 to the job site for on-site clarification by the Project Manager.
9. Conduct pre-paving conference to review Contractor's laydown, testing and surveying plans. Meeting will be held via video conference and will be attended by Project Manager, Design Engineer, and RPR. RPR's fee will be covered in Section B. Construction Observation Services.
10. Prepare change orders and supplemental agreements, if required, including appropriate cost/price analysis. All coordination of change orders will be provided by the Engineer.

11. Review and certify monthly Contractor payment requests. Pay requests will be reviewed for accuracy with the Contractor and RPR.
12. Conduct weekly construction coordination meetings with Contractor, Airport, and Engineer. The Engineering team will include Project Manager, Design Engineer, and RPR. RPR's fee will be covered in Section B. Construction Observation Services.

B. Construction Administration Services

1. Provide review and approval of all submittals for materials to be used on the project. Review all shop drawings items as required during construction.
2. Provide a full time Resident Project Representative (RPR) and 1/3-time Senior RPR to monitor and document construction progress, confirm conformance with schedules, plans and specifications, measure and document construction pay quantities, document significant conversations or situations, document input or visits by local authorities, etc. Maintain daily log of construction activities. Conduct interviews of the Contractor's and Subcontractor's employees regarding Davis Bacon wage rates and the review of their weekly payroll reports.
3. Provide full-time RPR and 1/3-time Senior RPR for 14-days of night operations to meet operational and CSPP requirements.
4. Prepare and submit weekly inspection reports. Reports will be submitted to the FAA and Sponsor.
5. Conduct final project inspection with the Sponsor, FAA, and the Contractor. Any punch list items will be noted and coordinated with the Contractor for necessary action. The final inspection will be held on-site and will be attended by the Project Manager, Senior RPR, and RPR.

VI. ELEMENT I - CLOSEOUT

During the project closeout phase of the project, the Engineer will assist the Sponsor with compiling all of the reports, documents, and other items necessary to successfully close out the associated grant and provide an accurate historical record for the project.

Activities include:

1. Prepare Summary of Tests report to document the acceptance testing performed on the project.
2. Assist the Sponsor with completing all necessary grant closeout certifications and forms, including final SF425, SF271, draft grant closeout request letter.
3. Update Airport Layout Plan and Terminal Area Drawing to reflect as-built conditions.
4. Prepare record drawings, indicating changes made to the design during construction. The FAA, State, and Sponsor will each receive drawings in pdf format. AutoCAD files can be provided upon request.
5. Prepare Final Engineers Report. The final report will follow the current FAA AIP Final Report guidance.

VII. ELEMENT I - SPECIAL SERVICES

Special Services are those services that aren't considered "basic" services such as those listed above. When a Special Service is needed that we do not provide in-house, we will contract with other firms that provide those services. The following are activities that are included in this project that fall under Special Service tasks.

Activities include:

In-house:

None

Subconsultant Services:

1. **Acceptance Testing:** Will be conducted by a subconsultant hired by the Engineer in accordance with the requirements listed in the technical specifications developed for the project for the following items:

P-152, 207/8, 401, 610 Item P-401 Plant Mix Bituminous Pavement (see Proposal)

2. **Biological Resources Impact Assessment and Mitigation Plan:** Preparation of a botanical resources impact assessment and mitigation plan to support airport development activities at the Arcata-Eureka Airport (ACV), including field surveys, mapping, assessment of impacts to special-status plant species (checkerbloom/Sidalcea), identification of suitable transplant and restoration areas, preparation of emergency permit documentation, development of mitigation recommendations, and preparation of summary and final technical reports with supporting GIS mapping and restoration guidance.
3. **Rare Plant Salvage, Propagule Procurement, and Installation Services:** Salvage, collection, propagation, and reinstallation of special-status checkerbloom (*Sidalcea* spp.) plant materials impacted by airport development activities at Arcata-Eureka Airport (ACV), including rhizome salvage, seed collection and storage, contract nursery grow-out of propagated plant stock, and future installation of restored plant populations at designated on-airport mitigation locations.
4. **Electrical Engineering:** Provide construction administration support services including project management, preconstruction conference, submittal review, field and change directives, RFI review, site inspections, weekly progress meetings, and final inspection. Includes travel expenses.

Detailed Engineering Fee Breakout

AIRPORT: California Redwood Coast-Humboldt County Airport (ACV)

PROJECT NUMBER 22795

LOCATION: Arcata, CA

DATE: 5/28/26

AIP GRANT NO.: 3-06-0010-0xx-2026

REV. NO:

PROJECT DESCRIPTION: Reconstruct/Relocate TW A (Const)

Note: This spreadsheet is provided to show how the lump sum totals for each phase have been established. The monthly billing will be a simple percentage of each phases total lump sum amount.

	Proposed Fee	Independent Fee Analysis	Negotiated Fee
I ELEMENT I - PROJECT DEVELOPMENT & ADMINISTRATION	\$50,200.00		
II ELEMENT I - PRELIMINARY DESIGN (NOT USED)	\$0.00		
III ELEMENT I - FINAL DESIGN (NOT USED)	\$0.00		
IV ELEMENT I - BIDDING SERVICES	\$14,520.00		
V ELEMENT I - CONSTRUCTION PERIOD SERVICES			
A. CONSTRUCTION ADMINISTRATION SERVICES	\$107,120.00		
B. CONSTRUCTION OBSERVATION SERVICES	\$441,570.00		
VI ELEMENT I - PROJECT CLOSEOUT	\$23,600.00		
VII ELEMENT I - SPECIAL SERVICES			
Acceptance Testing	\$286,741.00		
Rare Plant Salvage, Propagule Procurement, and Installation Services	\$40,744.00		
Biological Resources Impact Assessment and Mitigation Plan	\$22,500.00		
Electrical Engineering Const. Admin.	\$80,096.00		
TOTAL ENGINEERING SERVICES (ELEMENT 1)	\$1,067,091.00	\$0.00	\$0.00

I ELEMENT I - PROJECT DEVELOPMENT & ADMINISTRATION

Item No.	Principal	Project Manager	Senior Design Engineer	Design Engineer	Design Technician	Administrative Assistant	Total	Cost
PROJECT DEVELOPMENT PHASE	\$353.00	\$331.13	\$328.01	\$221.79	\$168.69	\$165.56	Hours	Summary
1 Develop Prelim Cost Estimates and Concept Layouts		2		1			3	\$884.05
2 Develop Detailed SOW	1	8					9	\$3,002.03
3 Develop Detailed Fee Estimate	1	4					5	\$1,677.51
4 Coordinate Subconsultant Fee Proposals		12		4			16	\$4,860.73
5 Prepare Documents and Assist with IFE		2					2	\$662.26
6 Conduct Fee Negotiations and Prepare RON		2					2	\$662.26
7 Prepare Final Agreement and Coordinate Final Approval and Signatures		2					2	\$662.26
8 Prepare Prelim FAA Grant Application		2		1		1	4	\$1,049.62
9 Prepare Monthly Invoicing and FAA Grant Drawdown Packets		2		4		16	22	\$4,198.47
10 Project Management and Administration								
a. Internal Progress Meetings	2	8		12	4	8	34	\$8,015.82
b. Conduct Coordination Meetings	2	12		6			20	\$6,010.31
c. Project Correspondence	1	8		4			13	\$3,889.21
d. Perform Business Aspects of Project	2	16					18	\$6,004.06
e. Perform Grant Admin		8		8		4	20	\$5,085.64
11 Prepare and Coordinate Subconsultant Agreements		8		4			12	\$3,536.21
Estimated Total Man-hours	9	96	0	44	4	29	182	
Summary Costs	\$3,176.97	\$31,788.40	\$0.00	\$9,758.94	\$674.75	\$4,801.37		\$50,200.43
Reimbursables								
Total Project Development Phase:								\$50,200.43

use \$50,200.00

II ELEMENT I - PRELIMINARY DESIGN (NOT USED)

Total Prelim Design Phase:	\$0.00
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use \$0.00

III ELEMENT I - FINAL DESIGN (NOT USED)

Total Final Design Phase:	\$0.00
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use \$0.00

IV ELEMENT I - BIDDING SERVICES

Item No.	Principal	Project Manager	Senior Design Engineer	Design Engineer	Design Technician	Administrative Assistant	Total	Cost
BIDDING PHASE	\$353.00	\$331.13	\$328.01	\$221.79	\$168.69	\$165.56	Hours	Summary
1 Assist Sponsor with Advertising Invitation for Bids	1	2		1		1	5	\$1,402.61
2 Provide technical assistance during bidding		3		1		1	5	\$1,380.75
3 Attend and assist with prebid meeting (1 trip)		8		8		1	17	\$4,588.95
4 Provide technical assistance during bidding		2		2		1	5	\$1,271.41
5 Prepare abstract of bids		1		1		2	4	\$884.05
6 Update FAA grant application		1				2	3	\$662.26
7 Assist in Award Notification		3				1	4	\$1,158.95
Estimated Total Man-hours	1	20	0	13	0	9	43	
Summary Costs	\$353.00	\$6,622.58	\$0.00	\$2,883.32	\$0.00	\$1,490.08		\$11,348.98
Reimbursables								
Meals and Incidental Expenses Per Diem		2		2		4 Days	\$68.00	\$272.00
Lodging Per Diem		1		1		2 Days	\$110.00	\$220.00
Rental Car		1		0		1 Days	\$150.00	\$150.00
Mileage		50		0		50 Miles	\$0.725	\$36.25
Airfare		1		1		2 Trips	\$1,250.00	\$2,500.00
Misc Expenses						\$ - Actual Cost		\$0.00
Total Bidding Phase:								\$14,527.23

use \$14,520.00

Detailed Engineering Fee Breakout

AIRPORT: California Redwood Coast-Humboldt County Airport (ACV)

PROJECT NUMBER 22795

LOCATION: Arcata, CA

DATE: 5/28/26

AIP GRANT NO.: 3-06-0010-0xx-2026

REV. NO:

V ELEMENT I - CONSTRUCTION PERIOD SERVICES

A. CONSTRUCTION ADMINISTRATION SERVICES

Item No.		Principal	Project Manager	Senior Design Engineer	Design Engineer	Construction Observer (CA)	Administrative Assistant	Total	Cost	
CONSTRUCTION ADMINISTRATION		\$353.00	\$331.13	\$328.01	\$221.79	\$231.17	\$165.56	Hours	Summary	
1	Coordinate Const Contract Documents		8		8			16		\$4,423.39
2	Provide Sponsor and FAA with Contract Documents		1					1		\$331.13
3	Review and Accept Contractor SPCD	1	4		8	0		13		\$3,451.87
4	Coordinate Construction Management Plan	1	4		8	0		13		\$3,451.87
5	Conduct Pre-Construction Conference (1 trip)		8		8	0		16		\$4,423.39
6	Identify local survey control points				3			3		\$665.38
7	Provide Technical Assistance During Construction	2	80		40		2	124		\$36,399.22
8	Construction Site Visits (4 trip)		32					32		\$10,596.13
9	Conduct Pre-Paving Conference (1 trip)		16		16	0		32		\$8,846.77
10	Prepare Change Orders and Supplemental Agreements		8		16			24		\$6,197.74
11	Review and Certify Monthly Contractor Pay Requests		4		16			20		\$4,873.22
12	Weekly coordination meetings with Contractor, Airport, and Engineer = calendar weeks x 1 meeting each week		20		20			40		\$11,058.46
Estimated Total Man-hours		4	185	0	143	0	2	334		
Summary Costs		\$1,411.98	\$61,258.89	\$0.00	\$31,716.55	\$0.00	\$331.13			\$94,718.56
Reimbursables										
Meals and Incidental Expenses Per Diem			6		2		8 Days	\$68.00		\$544.00
Lodging Per Diem			6		2		8 Days	\$110.00		\$880.00
Rental Car			6		0		6 Days	\$150.00		\$900.00
Mileage			120		0		120 Miles	\$0.725		\$87.00
Airfare			6		2		8 Trips	\$1,250.00		\$10,000.00
Misc Expenses							\$ - Actual Cost			\$0.00
Total Construction Admin Phase:										\$107,129.56
Contract Construction Days (calendar)		140						use		\$107,120.00
Calendar Weeks		20								

B. CONSTRUCTION OBSERVATION SERVICES

Item No.		Principal	Project Manager	Senior Design Engineer	Design Engineer	Senior Construction Observer	Construction Observer (CA)	Administrative Assistant	Total	Cost	
CONSTRUCTION OBSERVATION		\$353.00	\$331.13	\$328.01	\$221.79	\$262.40	\$231.17	\$165.56	Hours	Summary	
1	Provide Review of Submittals		4		16		8		28	\$6,722.55	
2	Provide Full-time RPR					300	1200		1500	\$356,120.04	
3	Provide Full-time RPR (night operations) 14 Cal Days					30	120		150	\$35,612.00	
4	Prepare and Submit Weekly Inspection Reports		4		8		20		32	\$7,722.18	
5	Conduct Final Inspection (1 trip)		8						8	\$2,649.03	
Estimated Total Man-hours		0	16	0	24	330	1348	0	1718		
Summary Costs		\$0.00	\$5,298.07	\$0.00	\$5,323.06	\$86,593.40	\$311,611.28	\$0.00		\$408,825.81	
Contract Construction Days (calendar)		140									
Reimbursables											
Meals and Incidental Expenses Per Diem			1			35	140	176 Days	\$68.00	\$11,968.00	
Lodging Per Diem			1			35	140	176 Days	\$110.00	\$19,360.00	
Rental Car			1				0	1 Days	\$150.00	\$150.00	
Mileage			30				0	30 Miles	\$0.725	\$21.75	
Airfare			1				0	1 Trips	\$1,250.00	\$1,250.00	
On-site Cell Phone and Internet Costs							0	0 Months	\$100.00	\$0.00	
Misc Expenses							0	\$ - Actual Cost		\$0.00	
		Total Construction Observation:								\$441,575.56	
										use	\$441,570.00

VI ELEMENT I - PROJECT CLOSEOUT

Item No.		Principal	Project Manager	Design Technician	Design Engineer	Construction Observer (CA)	Administrative Assistant	Total	Cost
PROJECT CLOSEOUT		\$353.00	\$331.13	\$168.69	\$221.79	\$231.17	\$165.56	Hours	Summary
1	Prepare Summary of Tests		4		8			12	\$3,098.87
2	Assist Sponsor with Grant Closeout Docs		8		4		1	13	\$3,701.77
3	Update ALP to reflect As-built Conditions			8	2			10	\$1,793.10
4	Prepare Record Drawings		4	24	4		1	33	\$6,425.78
5	Prepare Final Report		4		32		1	37	\$8,587.49
Estimated Total Man-hours		0	20	32	50	0	3	93	
Summary Costs		\$0.00	\$6,622.58	\$5,398.03	\$11,089.70	\$0.00	\$496.69		\$23,607.01
Reimbursables									
Total Project Closeout:									\$23,607.01
									use \$23,600.00

VII ELEMENT I - SPECIAL SERVICES

Item No.	Principal	Project Manager	Airport Planner	Environment al Scientist	Design Technician	Administrative Assistant	Total	Cost
SPECIAL SERVICES - In House	\$353.00	\$331.13	\$249.91	\$199.93	\$168.69	\$165.56	Hours	Summary
Estimated Total Man-hours	0	0	0	0	0	0	0	
Summary Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
SPECIAL SERVICES - Subconsultant								
Acceptance Testing								\$286,741.00
Rare Plant Salvage, Propagule Procurement, and Installation Services								\$40,744.00
Biological Resources Impact Assessment and Mitigation Plan								\$22,500.00
Electrical Engineering Const. Admin.								\$80,096.00

March 25, 2026

Lochner
Attn: Kerek Kuntz
715 Horizon Drive Suite 225
Grand Junction, CO 81506
Derek.kuntz@hwlochner.com

Subject: Proposal for Owner Quality Assurance Materials Testing Services
Schedule I: Relocate Taxiway A
HWL No. 22795 / AIP No. 3-06-0010-xxx-2026
California Redwood Coast Airport (ACV), Humboldt County, Arcata, California

Project Scope of Services

GeoStrata appreciates the opportunity to submit this proposal for quality assurance materials testing services for the proposed improvements to the California Redwood Coast Airport (ACV) located in Arcata, Humboldt County, California. We understand the project consists of one schedule with required Quality Assurance (QA) testing with an estimated 40 calendar days for completion, consisting of removing the existing pavement section to relocate Taxiway A to a new location which will include imported and recycled materials. Our scope of work for this project was estimated based on the provided request for proposal dated March 17, 2026, plans and specifications provided, email correspondence, and our experience on similar projects and work in Humboldt County, California. Our scope of work includes field and laboratory materials testing and general construction observations services for full-time and part-time testing as anticipated for the project. Based on our understanding, our requested services will include observation and testing of P-152, P-209 Aggregate Base Course (ABC), and P-401 asphalt and may include P-610 incidental concrete. We understand testing of hot mix asphalt (P-401) will be using Gyratory voids determination methods. Quality assurance acceptance on soils will consist of ASTM D6938 using Procedure A, the direct transmission method for nuclear density testing of P-152 and P-209 material at 100% of ASTM1557, modified Proctor, at frequencies of 1 test per 1,000 square yards (SY) and 2 tests per 1,000 SY, respectively. P-401c material will likely require moisture corrections at frequencies requested by the RPR. A reciprocity fee will be required for nuclear density gauge transportation into California for each project and per construction period of 180 days. We understand two construction periods may be separated by more days than this and two reciprocity fees may be required. Quality assurance testing on P-401 hot mix asphalt consists of field observations and voids per ASTM D3203 and D6925 Gyratory method and mat and joint density determination per ASTM D3665 and D2726 with core samples being retrieved by the Contractor. Due to anticipated quantities, multiple days of paving may constitute one Lot consisting of a minimum of three sublots of between 400 to 600 tons for P-401. Construction includes a control strip (1 lot of 3 sublots) prior to production paving. We assume two, one and one-half inch lifts for three inches of new asphalt for construction. A calibration cost for gyratory and concrete break equipment will be required per mobilization once our mobile laboratory is set up on the project. Due to anticipated shutdown two mobilizations and calibrations may be required for a fall 2026 start and fall 2027 completion. Quality Assurance testing will rely heavily on Contractor phasing, which is not known at this time and our estimate herein is conservative to accommodate potential changes. GeoStrata performed quality assurance testing in 2023 for runway improvements at the Arcata / Redwoods Airport which included understanding California prevailing wage requirements and mobilization costs for work in Humboldt County.

GeoStrata Advantage and Value Added

Testing will be performed from our AASHTO Accreditation Program (AAP) remote office and trailer for anticipated ASTM procedures for the project. Laboratory and field work will be overseen by our Materials Manager, Jacob O'Rear and Aviation Lead Principal, Scott Richards, a professional engineer (Colorado and Utah) and geologist (Utah). If required, GeoStrata engineering staff licensed as a Professional Engineer in the State of California may be consulted. Additional personnel provided for the proposed services will be qualified and properly trained and authorized for work at the airport. Our experience includes airport runways, taxiways, aprons, taxilanes, access roadways and infrastructure which include reclamation, rehabilitation and complete reconstruction methods performed in Colorado, Utah, Wyoming, Nevada, and California which provides us with the expertise to anticipate and solve many problems that may arise. Testing will be performed the day of sampling with results provided as soon as possible for project continuity. Asphalt test results will be provided the following day prior to that day of paving.

Field and Laboratory Procedures

All materials testing will closely follow project specifications for acceptance. Hot Mix Asphalt - HMA (P-401) will be sampled in accordance with ASTM D3665 and D979 procedures and tested in accordance with project FAA standards for quality assurance. Testing is to include percent air voids per ASTM D3203 utilizing sample preparation per ASTM D6925 Gyratory method. We understand testing for stability and flow per ASTM D6927 will not be required. The percent compaction of both the mat and joint density will be tested per ASTM D2726 utilizing cores sampled by the Contractor or the Contractor's QC. All required test results will be evaluated for acceptance per P-401. Depending on material used, P-401c may require specified testing to be determined during construction which may incur additional costs. An initial control strip is included in our costs, additional control strips and/or production days as a result of failing test results would incur an additional fee. Concrete as specified for P-610 will be tested if requested.

All materials incorporated in the work as requested by the RPR to be tested will be documented according to the project specifications. Records of all observations and tests will be furnished to the Project Superintendent and Project Engineer with weekly report summaries provided by project management. Additional testing services can be performed at the technician's time and laboratory fees for an additional cost.

Proposed Fees

Our services will be provided on a time and materials basis to provide general observations and to collect and transport material to our laboratory for testing. Lump sum costs for laboratory testing are also provided. Actual invoiced time will vary depending on project needs from the Contractor's schedule which is not known at this time. Our estimate includes two separate periods which would include a separate mobilization, setup and calibration of a mobile laboratory trailer for assistance in testing. Paving days are estimated based on paving three, 2-inch lifts for a total HMA thickness of 6-inches, with full-time observation and a sample runner to assist in expedited testing to be performed on-site in a mobile laboratory. One additional lab rental day is required after paving to perform final laboratory testing on asphalt placed the previous day. We anticipate one control strip with 3 sublots, and 10 production days of 3 sublots each, for a total of 33 sublots. Each subplot sample will be tested for Gyratory voids and Rice with subsequent core samples measured and tested for density, for a total cost of \$842 per subplot. Additional visits/hours requested over our estimates, including failed test strips, would incur additional costs. We anticipate P-154 and P-209 to be placed with

observations of mixing and processing and density testing after processing and compaction have been completed and QC testing performed. Per California law, travel time, lodging and per-diem costs will not be directly charged to the client. Observations and testing will be invoiced in accordance with California Prevailing Wage Rates for Group 3, technician for soils/asphalt testing, and Group 1, Lead Inspector for soils/asphalt testing. Project Management visits will be performed and invoiced under standard rates for professional services are exempt from prevailing wage requirements. We estimate the following cost to complete the project:

Fee Estimates

	Qty	Unit	Rate	Total
<u>Pre-Construction and Meeting Project Costs Included in Schedule I</u>				
Preconstruction Meeting (Virtual Meeting)	1	mtg.		\$ 505.00
QA/QC Workshop (On Site & Virtual Meeting)	1	mtg.		\$ 505.00
Weekly meetings (Virtual, min 2 staff)	8	mtgs.		\$ 4,040.00
Pre-Construction Items, Total cost:				\$ 5,050.00

Fee Estimate – P-152, P-207/8, P-401, P-610 Lab Costs

Lump Sum Anticipated Costs

Laboratory Mobilization (2 construction seasons)	4	Mob	\$21,000.00	\$ 84,000.00
Laboratory Set-Up and Calibration (after each mobilization)	2	Item	\$10,000.00	\$ 20,000.00
Accreditation Fee, PM Verification	1	Item	\$ 9,000.00	\$ 9,000.00
Laboratory Rental (Estimated 30 days)	30	days	\$ 245.00	\$ 7,350.00
Nuke Reciprocity (1 per season)	2	Fee	\$ 2,000.00	\$ 4,000.00
P-401, Sublot Cost (33 Sublots @ \$842/sublot)	33	Ea	\$ 842.00	\$ 27,786.00
P-152, P-209 Classification/Proctor	2	Ea	\$ 600.00	\$ 1,200.00
P-610, 3 pours (5 cylinders/pour @ \$29/cyl)	15	Ea	\$ 29.00	\$ 435.00
Total Lump Sum cost:				\$ 153,771.00

Field Time Costs (P-401, GROUP 1, \$261.79/\$293.48OT, GROUP 3, \$235.48/\$262.33OT)

G-1 Lead Inspector/Materials (11 days @ 8hrs/day std time)	88	Hours	\$261.79	\$23,037.52
G-1 Lead Inspector/Materials (11 days @ 4hrs/day OT)	44	Hours	\$293.48	\$12,913.12
G-3 Field Technician (11 days @ 8hrs/day std time)	88	Hours	\$235.48	\$20,722.24
G-3 Field Technician (11 days @ 4hrs/day OT)	44	Hours	\$262.33	\$11,542.52
PM Data Review/Report (1hr per paving day, standard rate)	11	Hours	\$170.00	\$ 1,870.00
Senior Project Management (Site visit and report review)	40	Hours	\$225.00	\$ 9,000.00
Total Hours-PW & Professional cost:				\$79,085.40

Field Time Costs (P-152, 207 and 610, GROUP 1, \$261.79, GROUP 3, \$235.48)

G-1 Lead Inspector/Materials (12 days @ 8hrs/day std time)	96	Hours	\$261.79	\$25,131.84
G-3 Field Technician (6 days @ 8hrs/day std time)	48	Hours	\$235.48	\$11,303.04
PM Data Review/Report (1hr per day, standard rate)	20	Hours	\$170.00	\$ 3,400.00
Senior Project Management (Site visit and report review)	40	Hours	\$225.00	\$ 9,000.00
Total Hours-PW & Professional cost:				\$48,834.88

Total cost for QA Services: \$286,741.28

We will efficiently schedule our services to the degree possible to minimize cost to the project. The client will only be invoiced for requested visits which may be less than the estimate provided. Any additional services or additional visits due to failing control strip or production days would be billed upon your authorization at the rates shown above and according to the GeoStrata 2026 rate schedule for time, lab testing and remote lab rental. It would be the Client's responsibility to pass through any costs to the Contractor incurred due to failing test results or poor performance.

We appreciate the opportunity to prepare this proposal for you and look forward to providing you with our services for this project. If you have any questions regarding any aspects of our proposal, please call our office at 801-501-0583.

Respectfully submitted,

GeoStrata



Scott W Richards, P.E., P.G.
Principal – Aviation Lead

Attachments: 2026 Rate Sheets (Standard Rates for Professional Time and Lab Tests)

Client agrees to the Scope of Work described in this Proposal and Cost Estimate.

By: _____
(signed)

Title: _____

(printed)

Date: _____



2026 Rate Schedule and Lab Charges

The compensation to GeoStrata for our professional geotechnical engineering, geologic, and environmental services is based upon the following elements:

Personnel

Expert Witness (per hour)	\$270.00
Senior Consultant (per hour)	\$225.00
Principals (per hour)	\$225.00
Senior Engineers (per hour)	\$190.00
Senior Geologists (per hour)	\$190.00
Project Engineers (per hour)	\$170.00
Project Geologists (per hour)	\$170.00
Staff Engineers (per hour)	\$150.00
Staff Geologists (per hour)	\$150.00
Environmental Scientist (per hour) including asbestos inspections, soil sampling, ground water sampling	\$150.00
GIS/Auto CAD Operator (per hour)	\$100.00
Project Manager (per hour)	\$110.00
Word Processing and Clerical (per hour)	\$70.00
Assistant Professionals (per hour)	\$100.00
Senior Field/Laboratory Technicians (per hour)	\$80.00
Field/Laboratory Technician (per hour)	\$70.00
Building Inspector (per hour)	\$100.00
Welding Inspector (per hour)	\$100.00
ICC Special Inspector (per hour) Structural Steel, Bolting, Epoxy Structural Masonry, EIFS, Reinforced Concrete, Post Tension Concrete, Suspended Ceilings, Fire Proofing	\$95.00

Miscellaneous Expenses

Letter of Subrogation	price per job
In-House printing (per page)	\$0.15
Plotting (per plot)	\$55.00

Equipment

Company Vehicle (per day)	\$74.00
Mileage (per mile)	\$1.00
Per diem (per day)	Price per job
Mobilization/Demobilization	Price per job
Truck Mounted Drill Rig (per hour)	Cost plus 20%
Tracked Excavator (per hour)	Cost plus 20%
Rubber Tired Backhoe (per hour)	Cost plus 20%
Core Rig Rental (per day)	\$100.00
Generator Rental (per day)	\$70.00
Soils Laboratory Rental (per day)	\$160.00
Asphalt Laboratory Trailer Rental (per day)	\$245.00
Tieback/Soil nails testing (per day)	\$138.00
Consumables (Dye Penetrant, Magnetic Particle, etc.)	Cost plus 20%
Ultrasonic Examination and Magnetic Particle, Torque Wrench (per hour)	\$100.00
Continuous Soil Sampling (additional per hour)	\$30.00
Soil Sample Containers (per container)	\$22.00
Sand Cone (per test)	\$45.00
Vibration Monitoring (per day)	\$280.00
Inclinometer Measurement (per day)	\$255.00
SSRI-Sealed Single Ring Infiltrometer (per day per ring)	\$35.00
GIS/Auto CAD 7 Terrain modeling software (per hour)	\$45.00
Geophysics-Seismic, Televiwer, ER IP, etc. (per day)	Cost plus 20%
Sub-contracted work and other Costs incurred with outside services, equipment or consumables	Cost plus 20%
Environmental sampling pumps	Cost plus 20%
Environmental consumable field supplies	Cost plus 20%
Quality Control Plan	\$320.00

**2026 Rate Schedule and Lab Charges****Asphalt**

Burn/Gradation and oil content	\$250.00
Rice	\$125.00
Field Marshall (set of 3 pucks)	\$450.00
Stability & Flow	\$100.00
Gyro Pucks (per set)	\$620.00
Marshall Design	\$4,325.00
SHRP Design	\$7,785.00
Immersion Compression	\$675.00
Density & thickness of AC Core	\$74.00
Thickness only of AC Core	\$42.00
Oven Correction (5 Samples)	\$680.00

Aggregate/Soils

Proctor	\$230.00
Specific Gravity Rock Correction	\$110.00
Gradation (Sieve analysis)	\$110.00
LL/PI (Atterberg limits)	\$110.00
Plastic Limit	\$55.00
Liquid Limit	\$55.00
Soils Analysis (Proctor, Gradation, Atterberg, Rock Correction, AASHTO Class)	\$600.00
California Bearing Ratio (CBR)	\$425.00
LA Abrasion	\$425.00
Coarse Aggregate Specific Gravity	\$100.00
Fine Aggregate Specific Gravity	\$100.00
Specific Gravity of Soil	\$132.00
Sodium Soundness	\$430.00
Clay Lumps & Friable Particles	\$85.00
Flat and Elongated	\$135.00
Fine Aggregate Angularity	\$74.00
Fractured Face Count	\$101.00
Sand Equivalent (set of 3)	\$157.00
Unit Weight	\$22.00
Organic Impurities	\$74.00
Moisture only	\$22.00
Lightweight pieces	\$135.00
Flakiness Index	\$100.00
Stripping	\$135.00

Permeability Testing

Falling Head, standard 2.5" diameter	\$165.00
Constant Head, standard 2.5" diameter	\$300.00
Back Pressure, Constant Head	\$425.00
Large Diameter Permeability (9.6 in. (Aggregate))	\$370.00

Concrete and Masonry

Cylinders	\$29.00
Grout Cylinders	\$39.00
Mortar Cylinders	\$39.00
Composite Prisms	\$110.00
Cores (compressive strength)	\$55.00
Beams	\$85.00
Density & Absorption of Cores (set of 3)	\$129.00
Concrete Shrinkage Test (set of 3)	\$385.00
Concrete Design	\$1,855.00
Trial Batch (per hour/per person)	\$85.00
Core Rig (Daily)	\$110.00
Generator (Daily)	\$75.00
Potential Alkali-Silica Reactivity (ASR Mortar Bar-ASTM C-284 or C1260)	\$710.00
Petrographic Analysis	Cost plus 20%
Lightweight Particles	\$165.00

Soils: Basic Index Testing

Crumb Test	\$45.00
Moisture Content	\$22.00
Moisture & Density (standard samples or rings)	\$34.00
Organic Content	\$74.00
Pinhole Dispersion Test (include sample preparation)	\$244.00
Phase Relationships computations (per sample)	\$45.00
Shrinkage Limit	\$80.00
GSD Standard (up to 1 quart bag)	\$85.00
Percent Fines (passing No. 200 sieve)	\$51.00
Percent Fines Bulk Sample (passing No. 200 sieve)	\$74.00
GSD Bulk (requires split, type1 gallon bag)	\$110.00
Hydrometer Analysis (does not include specific gravity)	\$125.00
USCS or AASHTO Classification	\$34.00
USDA Classification (does not include grain-size distribution or hydrometer)	\$34.00

GeoStrata

2026 Rate Schedule and Lab Charges

Exhibit A

Compressibility Tests

Percent Swell Collapse (seating + specified load + inundation)	\$135.00
1-D Consolidation 10 loads + rebound (does not include Gs)	\$165.00
1-D Consolidation 10 loads + rebound + collapse/swell	\$175.00
Secondary Curves (per load per day)	\$40.00
1-D Consolidation (timed readings, and rebound)	\$165.00
Constant rate of strain consolidation	By project
Free Swell	\$135.00

Strength Testing

Direct Shear (CD), 3 points, 2.5" OD Max	\$375.00
Residual Shear (CD), per pt., 5 cycles	\$740.00
Point Load Test, per test	\$55.00
Pocket Penetrometer, per test	\$30.00
Torvane, per test	\$30.00
Unconfined Compression	\$100.00
Consolidated Undrained Triaxial	\$925.00
Unconsolidated Undrained Triaxial	\$370.00

Other

Reliance Letter	\$620.00
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Tech Charges

2150-Soil Density Testing	\$70.00
3350-Concrete Sampling/Testing	\$80.00
3375-Sample Pickup	\$70.00
2200-Visual Soil Observations	\$70.00
2425-HMA Sampling	\$80.00
2450-HMA Density	\$80.00
2475-Asphalt Testing	\$80.00

Other Special Tests

Soluble Chloride	\$70.00
Corrosion package (includes resistivity, pH, Soluble Sulfates, Soluble Chloride)	\$255.00
NaSO4 Soundness	\$305.00
pH (Potentiometer, Method A)	\$60.00
Resistivity, Moisture Conditioned Multi-Point	\$122.00
Resistivity, at Existing Moisture Content	\$70.00
Soluble Sulfates	\$70.00
Environmental lab fees-including asbestos,	Cost plus 20%

Notes:

All pricing subject to change.

I. Pricing for testing not described herein will be provided upon request.

II. Pricing assumes samples do not contain hazardous materials. Testing fees for contaminated samples will be at a negotiated fee.

III. Costs include storage of samples for up to 7 days after completion of testing. Samples will be discarded unless client makes prior arrangements.

IV. Additional storage will be at a negotiated fee.

V. Rush service available at an additional surcharge, please call for details.

VI. Daily rates are available upon request.

Arcata Airport - Taxiway A Reconstruct - Construction Support Services**4/28/2026****I. Labor Cost:****1**

Submitted By: Lean Technology Corporation Labor Title Category: Proposed Rate:	Engineer V (Doron Lean)	Engineer IV (Jeff Anderson, Liet Le)	Engineer II (Freddy Sepulveda, Kat Virzi)	Subtotal Task
	\$345.00	\$309.23	\$160.00	
Construction Support Services				
Ongoing Project Management (4 Months * 2 hrs)	8			\$2,760
Pre-Construction Conference/Meetings (Virtual)		4		\$1,237
Contractor Submittal Review	4	32	40	\$17,675
Field and Change Directives	4	8	40	\$10,254
RFI Review	8	16	24	\$11,548
Site Inspections (1 per phase) total of 3 phases		48		\$14,843
Project Meetings (16 Weeks @ 1 hour per week) Virtual		8	16	\$5,034
Substantial Completion Site Visits and Punchlists (On-Site)		32		\$9,895
Travel Expenses (Airfare = \$740, Per Diem = \$250, Taxi = \$75, Car = \$75/day)				\$6,850
Subtotal Hours	24	148	120	
Subtotal Fee	\$8,280.00	\$45,766.15	\$19,200.00	\$80,096.15



May 26, 2026

Arcata/Eureka ACV Airport
ATTN: Justin Hopman, Interim Director of Aviation
County of Humboldt

RE: PROPOSED COST FOR THE CALIFORNIA REDWOOD COAST HUMBOLDT COUNTY AIRPORT (ACV) RARE PLANT SALVAGE, PROPAGULE PROCUREMENT, AND INSTALLATION

Below are the estimated costs for Samara Restoration to amplify the *Sidalcea ssp.* population at the Eureka/Arcata Airport.

1. Salvage Plant Materials (rhizomes) at the California Redwood Coast Humboldt County Airport (ACV) to be grown out (~200-500 containers) in the nursery for future planting on site (2026) = \$5,880
2. Seed Collection, processing, and storage of *Sidalcea ssp.* (Checker Bloom) from the existing populations at the airport in summer 2026 = \$7,380
3. Contract grow of 2,000 *Sidalcea ssp.* (Checker Bloom) plant bands from the previous years seed collection for planting on site in 2027 = \$10,800
Note: This includes taxes and delivery. A contract grow is required and would require a 50% deposit upon initiation of agreement.
4. Plant installation of contract grown material in 2027/2028 = \$12,980

TOTAL COST FOR RARE PLANT SALVAGE AND PROPAGULE PROCUREMENT = \$37,040

Please let me know if you have any questions.

Thanks,

Eric Johnson
CEO/Senior Restoration Ecologist
(707) 834-4379

Add 10% to
estimate per
Eric Johnson in
the field -
\$40,744



Justin Hopman C.M., ACE
Interim Director of Aviation
County of Humboldt

May 20, 2026

RE: Proposal for a Botanical Resources Impact Assessment and Mitigation Plan for the Taxiway A Relocation Project at the Arcata-Eureka Airport in McKinleyville, Humboldt County, California

Dear Justin,

Thank you for requesting a scope of work and cost estimate to prepare a Botanical Resources Impact Assessment and Mitigation Plan for the Taxiway A Relocation Project at the Arcata-Eureka Airport (ACV) in McKinleyville, Humboldt County, California. This work is needed to assist the County of Humboldt (County) with the permitting process for the project. It is expected that impacts on a special status plant that is growing in the new taxiway alignment will be unavoidable and will require mitigation. In this proposal, I present my understanding of the work that is needed at this time based on the discussion we had at last Friday's meeting, which was attended by representatives of the County, the California Department of Fish and Wildlife (CDFW), Lochner, and Samara Restoration.

1. Project Background

At ACV, Taxiway A needs to be moved approximately 100 feet from its current location to meet Federal Aviation Administration safety standards. Construction will involve removal of the existing taxiway pavement and the placement of new pavement in the designated taxiway alignment. Material will be hauled on existing paved routes, and a construction staging area will be placed at a location that is already paved. Construction work is scheduled for late summer 2026. An Emergency Permit is needed now to allow the project to proceed on schedule. A full permit will be processed at a later date.

CDFW staff have identified the presence of a special status plant, checkerbloom (*Sidalcea*), in the new taxiway alignment where impacts on the plant will be unavoidable. There is an urgent need to assess the level of impact and to take measures to mitigate impacts on

checkerbloom while it is still early in the growing season and before project construction. Proposed mitigation includes salvaging plants located in the construction footprint, propagating them at a local nursery, and transplanting them in Spring 2027 at suitable locations at ACV. A survey of the entire checkerbloom population at ACV was completed by CDFW staff in 2009-2010.

2. Proposed Scope of Work

As requested, we are proposing to assess the impacts of Taxiway A relocation on botanical resources at ACV and to prepare a mitigation plan to address unavoidable impacts. We will work in collaboration with County staff, CDFW staff, and Samara Restoration staff. Tasks will include: 1) Field Assessment and 2) Report Preparation, as discussed below.

2.1 Field Assessment

Within the project footprint, we will assess impacts on botanical resources following CDFW (2018) guidelines. We have queried the CDFW California Natural Diversity Database RareFind 5. Checkerbloom is the only special status plant that has been recorded previously at ACV. Nonetheless, to ensure that no other special status plants will be impacted, our field survey will be floristic in nature, meaning that all plants encountered in impact areas will be identified to a taxonomic level that allows determination of rarity. We will also identify vegetation types using the California Native Plant Society's (CNPS) (2026) online *Manual of California Vegetation* and note the presence of any sensitive natural communities following CDFW 2025.

We will map all checkerbloom found in impact areas. We will estimate the number of plants present, the percent of plants that are flowering or fruiting, associated plant species, and relevant habitat characteristics. We will look for and map suitable checkerbloom transplant locations at ACV. Optimal transplant locations are places that have native, undisturbed soils and share other habitat characteristics with the places where checkerbloom is currently growing.

We will take a look at the existing taxiway to be removed and discuss options for restoration of the area following taxiway removal. We will consider the need for soil remediation, techniques for soil preparation, the most suitable plant species for planting, and the best methods for revegetation including seeding and planting container plants. The plant palette will be selected in consultation with all project partners. Ideally, the plants selected will be low maintenance, low-growing native species.

2.1 Report Preparation

To address the urgency of the need for an Emergency Permit for the Taxiway A Relocation Project, we are proposing a phased approach that will result in the preparation of two reports. The first will be a summary report to be completed soon after our field assessment. It will be suitable for inclusion with the Emergency Permit. It will contain the results of our field survey, including a map of checkerbloom in project impact areas, data about the plants

found, and a brief description of other plants and vegetation types found. The summary report will include a checkerbloom mitigation plan, outlining all the steps needed to salvage plants growing in impact areas, grow them out at the nursery, and transplant them to suitable ACV locations at a later time. The summary report will also include recommendations for how best to restore the area where the existing taxiway will be removed.

The second report will be a full report, to be prepared in Fall 2026 following construction. It will be suitable for use later in the permitting process for the project. The full report will include the results of our CNDDDB and CNPS queries, a table with information about special status plants with potential to grow in habitats found at ACV, more details about the methods we used to perform our assessment, and a full list of all the plants we found during our field survey. The full report will document the steps that were taken to mitigate unavoidable impacts on checkerbloom.

3. Deliverables

Deliverables will include:

1. Summary Report. Suitable for Emergency Permit. See Task 2.1 "Report Preparation" for details of what will be included in the summary report.
2. Full Report. See Task 2.1 "Report Preparation" for details of what will be included in the full report.
3. Maps. A map of checkerbloom distribution in impact areas and a map of suitable checkerbloom transplant locations will be submitted in both pdf and ArcGIS formats.

4. Schedule

Fieldwork will be performed on May 28, 2026, or soon thereafter. The summary report and maps will be submitted by June 30, 2026. A draft full report will be submitted by November 15, 2026, and a final full report will be prepared within three weeks following receipt of comments from project partners.

5. Cost

Our cost estimate for the current proposed scope of work is \$22,500.

6. Future Work

At our meeting last Friday, we briefly discussed the need for an airport-wide ACV Checkerbloom Management Plan. We have not included the preparation of this management plan in our current proposed scope of work because it would be best to spend more time and give more attention to the components of the plan through future meetings with County and CDFW staff. In general, preparation of an ACV Checkerbloom Management Plan would involve surveys in Spring 2027 to map and collect data on the full checkerbloom population at ACV and the development of recommendations for appropriate management actions to safeguard and enhance the viability of the population while allowing ACV to maintain airport activities as needed and to function safely.

7. References

California Department of Fish and Wildlife. 2018. Protocols for surveying and evaluating impacts to special status native plant populations and natural communities. Sacramento, CA. 12 pp.

California Department of Fish and Wildlife. 2025. California sensitive natural communities. February 2025.

California Native Plant Society. 2026. A Manual of California Vegetation, Online Edition. <http://www.cnps.org/cnps/vegetation/>. California Native Plant Society, Sacramento, CA.

We appreciate your consideration of our proposal. Please contact me if you would like any more information or clarification of the information presented here.

Sincerely,



Annie Eicher, Senior Plant Ecologist
Pacific Coast Fish, Wildlife & Wetlands Restoration Association
P.O. Box 4574
Arcata, CA 95518
707-496-9627
annie@pcfwwra.org

ACV TWY A Lochner 2nd Amendment

Final Audit Report

2026-06-30

Created:	2026-06-30
By:	Melissa Stelzig (mstelzig@co.humboldt.ca.us)
Status:	Signed
Transaction ID:	CBJCHBCAABAAzKCzTp8YfUAZLOEFYBqqETZRqvwGX-2

"ACV TWY A Lochner 2nd Amendment" History

-  Document created by Melissa Stelzig (mstelzig@co.humboldt.ca.us)
2026-06-30 - 7:22:40 PM GMT
-  Document emailed to Erik Vliek (evliek@hwlochner.com) for signature
2026-06-30 - 7:22:49 PM GMT
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