AKINAKA & ASSOCIATES, LTD.
Consulting Civil Engineers

June 26, 2024

Ms. Susan Kunz
County of Hawaii
Department of Housing and Community Development
1990 Kino'ole Street, Suite 102
Hilo, HI 96720

Subject: Notice to Providers of Professional Services
Fiscal Year 2024-2025

Please accept this letter of interest for the County of Hawaii, Department of Housing and Community Development, fiscal year 2024-2025. We are especially interested in applying for projects in the following categories:

GENERAL ENGINEERING (PROJECT MANAGER)

Please find attached our complete statement of qualification. If there are any questions or clarifications of our experience, please call the undersigned.

Very truly yours,

Ken C. Kawahara, P.E.
President

Enclosures:
1) SF330
2) Professional Licenses
3) Company Brochure
4) Staff Resumes

Alakea Corporate Tower • 1100 Alakea Street, Suite 1800 • Honolulu, Hawaii 96813
Phone: (808) 836-1900 • Fax: (808) 836-8852

PROFESSIONAL SERVICES QUALIFICATIONS

PART I - SPECIFIC QUALIFICATIONS

A. CONTRACT INFORMATION

1. PUBLIC NOTICE DATE	2. PROJECT CATEGORY
June 1, 2024	General Engineering (Project Manager)

B. POINT OF CONTACT

3. NAME AND TITLE

Ken C. Kawahara, P.E. – President

4. NAME OF FIRM

Akinaka & Associates, Ltd.

5. TELEPHONE NUMBER	6. FAX NUMBER	7. E-MAIL ADDRESS
808-836-1900	808-836-8852	kck@akinaka.com

E. RESUMES OF KEY PERSONNEL PROPOSED WHO WILL PROVIDE SERVICES FOR THIS PROJECT CATEGORY

(Complete one Section E for each key person.)

11. NAME	12. TITLE SERVICE PROVIDED	13. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Ken C. Kawahara, P.E.	President	33	14

14. FIRM NAME AND LOCATION (City and State)

Akinaka & Associates, Ltd. – Honolulu, Hawaii

15. EDUCATION (DEGREE AND SPECIALIZATION)	16. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)
University of Hawaii at Manoa, 1992, BS, Civil Engineering	State of Hawaii, P.E., License #9148, 1997

17. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

ACEC, APWA, ASCE, SWWA, HCES, HLPC, WEF

18. RELEVANT PROJECTS

	(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
a.	Makani Wind Pilot Project Waimea, Island of Hawaii, Hawaii	2014	Estimated 2019

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☒ Check if project performed with current firm

Civil engineering support as well as project management for Google Inc. to deploy a 600kw Airborne Wind Turbine prototype on land owned and operated by Parker Ranch. Project included 4 phases: Site selection & Environment Due Diligence, Investigation & Environmental Compliance, Design & Construction and Construction & Testing Support Services. Project Role: Principal project management

	(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
b.	Upcountry Maui Exploratory Potable Water Well Various Locations, Maui, Hawaii	2011	Estimated 2019

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☒ Check if project performed with current firm

Engineering services including site identification, preparation of environmental assessment, constructions plans and specifications, permits, and construction services for an exploratory well site in the Makawao or Pukalani Hydrological Sectors on the island of Maui. Project Role: Principal project management

	(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
c.	Waimea Stream Diversion Waimea, Kauai, Hawaii	2017	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☒ Check if project performed with current firm

Design modifications to stream diversion at the Koaie Stream, Waiahulu Stream, and Waimea River on Kauai. Preparation of conceptual designs to monitor stream & ditch flows and modify stream diversions as required at the Koaie and Waiahulu streams, and the Waimea Tailrace (release structure) downstream of the Mauka Hydroelectric Plant (MHP). Project Role: Principal project management

	(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
d.	Water-Energy Nexus Investigation Various Locations, Oahu, Hawaii	2015	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☒ Check if project performed with current firm

Analyze by user size, costs, energy intensity the energy needed to produce water/wastewater and water needs to produce energy. Provide a benchmark for energy intensities and water intensities and identify opportunities and barriers to co-implement water and energy efficiency program. Project also involved making recommendations for the development of programs and policies to optimize water and wastewater systems. Project Role: Principal project management

	(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
e.	Upsizing of Lalamilo Well A Kamakoa, Island of Hawaii, Hawaii	2014	Estimated 2019

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☒ Check if project performed with current firm

Design improvements to a submersible 20 stage pump and motor or Line Shaft, 1,000 gpm pump and motor (replaces 700 gpm pump and motor), new piping and appurtenances to accommodate larger pump and motor, new control building, access road and sidewalks, site grading and demolition of existing building. Project Role: Principal project management

E. RESUMES OF KEY PERSONNEL PROPOSED WHO WILL PROVIDE SERVICES FOR THIS PROJECT CATEGORY

(Complete one Section E for each key person.)

11. NAME	12. TITLE SERVICE PROVIDED	13. YEARS EXPERIENCE	
		a. TOTAL6	b. WITH CURRENT FIRM
Scott A. Kunioka, P.E.	Project Manager	37	7

14. FIRM NAME AND LOCATION (City and State)

Akinaka & Associates, Ltd. – Honolulu, Hawaii

15. EDUCATION (DEGREE AND SPECIALIZATION)	16. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)
University of Hawaii at Manoa, 1986, BS, Civil Engineering	State of Hawaii, P.E., License #7257, 1991

17. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

American Society of Civil Engineers, Hawaii Water Environment Association, UH Engineering Alumni Association

18. RELEVANT PROJECTS

	(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
a.	Upcountry Maui Exploratory Potable Water Well Various Location, Maui, Hawaii	2011	Estimated 2018
	(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☒ Check if project performed with current firm Engineering services including site identification, preparation of environmental assessment, constructions plans and specifications, permits, and construction services for an exploratory well site in the Makawao or Pukalani Hydrological Sectors on the island of Maui. Project Role: Project manager		
	(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
b.	Waimea Stream Diversion Waimea, Kauai, Hawaii	2017	N/A
	(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☒ Check if project performed with current firm Design modifications to stream diversion at the Koaie Stream, Waiahulu Stream, and Waimea River on Kauai. Preparation of conceptual designs to monitor stream & ditch flows and modify stream diversions as required at the Koaie and Waiahulu streams, and the Waimea Tailrace (release structure) downstream of the Mauka Hydroelectric Plant (MHP). Project Role: Project manager		
	(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
c.	First Insurance Center Drainage Improvements Honolulu, Hawaii	2017	Estimated 2018
	(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☒ Check if project performed with current firm Design the replacement of sidewalk culverts at four locations around the property, preparation of all documents necessary to obtain permits. Project Role: Project manager		
	(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
d.	Kahului Airport MBR Scalping Kahului, Maui, Hawaii	2018	2020
	(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☒ Check if project performed with current firm Extract wastewater from the sewer system and produce R-1 water for end users. Provide grading, erosion and sediment control, laydown and staging areas, asphalt surfacing and chain link fencing, paving removal, and trenching for underground piping and surface restoration. Project Role: Project manager		
	(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
e.	EIS East Maui Water Lease Maui, Hawaii	2017	N/A
	(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☒ Check if project performed with current firm Provide technical support for the EIS regarding the surface waterer and ground waters in the HC&S field system, Upcountry and Naiku areas in Maui. Project Role: Project manager		

E. RESUMES OF KEY PERSONNEL PROPOSED WHO WILL PROVIDE SERVICES FOR THIS PROJECT CATEGORY

(Complete one Section E for each key person.)

11. NAME	12. TITLE SERVICE PROVIDED	13. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
W. Roy Hardy, P.E.	Senior Project Manager	36	3

14. FIRM NAME AND LOCATION (City and State)

Akinaka & Associates, Ltd. – Honolulu, Hawaii

15. EDUCATION (DEGREE AND SPECIALIZATION)	16. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)
Santa Clara University, 1986, B.S. Civil Engineering; University of Hawaii at Manoa, 1987, M.S. Civil Engineering Water Resources	State of Hawaii, #7548, PE

17. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

18. RELEVANT PROJECTS

a.

(1) TITLE AND LOCATION *(City and State)*: 2019 Hawaii Water Plan, Water Resources Protection Plan

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: | CONSTRUCTION *(If applicable)*:

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☐ Check if project performed with current firm

Guided the establishment of Commission approved updated sustainable yields using latest and best information available for recharge estimates and appropriate numerical and analytical models and monitoring network data as defined in the 2019 WRPP.

b.

(1) TITLE AND LOCATION *(City and State)*: Irrigation Water Requirement Estimation Decision Support System

(2) YEAR COMPLETED: 10 — PROFESSIONAL SERVICES: | CONSTRUCTION *(If applicable)*:

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☐ Check if project performed with current firm

Guided the establishment of the Commission approved original and update to its Irrigation Water Requirement Estimation Decision Support System to estimate crop irrigation requirements for consumptive use permitting in Hawaii. This ArcGIS tool was developed in conjunction with the University of Hawaii Manoa Collage of Tropical Agriculture and Human Resources.

c.

(1) TITLE AND LOCATION *(City and State)*: RAM2 Model and the Determination of Sustainable Yields of Hawaii Basal Aquifers

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: | CONSTRUCTION *(If applicable)*:

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☐ Check if project performed with current firm

Guided the update to the original Robust Analytical Model (RAM) approved by the Commission in 1992, in conjunction with the University of Hawaii Manoa Water Resource Research Center. Used to help set sustainable yields statewide where sufficient deep monitor well data exists.

d.

(1) TITLE AND LOCATION *(City and State)*: Hawaii Well Construction and Pump Installation Standards

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: | CONSTRUCTION *(If applicable)*:

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☐ Check if project performed with current firm

Updated the original 1997 HWCPIS and assisted in the development for the goal of ensuring the safe and sanitary maintenance and operation of wells, the prevention of waste, and the prevention of contamination and protection of the public trust of ground water aquifer resources.

e.

(1) TITLE AND LOCATION *(City and State)*: Regulatory Permitting of Ground Water Production and Monitoring Wells

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: | CONSTRUCTION *(If applicable)*:

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☐ Check if project performed with current firm

In charge of permitting program for well construction, pump installation, and ground water use permit applications. For a time also concurrently managed the Stream Protection and Management Branch responsible for stream diversions, stream channel alterations, and setting instream flow standards.

E. RESUMES OF KEY PERSONNEL PROPOSED WHO WILL PROVIDE SERVICES FOR THIS PROJECT CATEGORY

(Complete one Section E for each key person.)

11. NAME	12. TITLE SERVICE PROVIDED	13. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Gavin M. Ganal, P.E.	Project Engineer	22	22

14. FIRM NAME AND LOCATION (City and State)

Akinaka & Associates, Ltd. – Honolulu, Hawaii

15. EDUCATION (DEGREE AND SPECIALIZATION)	16. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)
University of Hawaii at Manoa, 2005, BS, Civil Engineering	State of Hawaii, P.E., License #14527, 2011

17. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

American Water Works Association

18. RELEVANT PROJECTS

	(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
a.	Water Main Replacement at Various Street Honolulu, Hawaii	2011	2016
	(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☒ Check if project performed with current firm Water main replacements for various streets including installation of pipe locator devices along pipeline alignment when pipe material is PVC pipe, traffic control plans for work with City jurisdiction, NPDES permit. Project Role: Project engineer		
b.	(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
	Kakaina Subdivision Waimanalo, Hawaii	2011	2016
	(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☒ Check if project performed with current firm Design of a 45-lot subdivision. Improvements included relocation of a 20" Board of Water Supply CCP main located partially on Department of Hawaiian Homelands land, design of an underground detention system on an infill subdivision to maximize the number of lots and connection of drain system to an existing concrete lined channel. Project Role: Project engineer		
c.	(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
	Maunawili Elementary Campus Replace Waterlines Maunawili, Kailua, Hawaii	2012	Estimated 2018
	(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☒ Check if project performed with current firm Replacement of waterlines and analyzing fire protection and coordinating with the fire department. Project Role: Project engineer		
d.	(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
	Waimanalo Elementary Miscellaneous R&M Waimanalo, Hawaii	2012	2017
	(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☒ Check if project performed with current firm Replacement of existing waterline, existing ceiling fans and existing fire alarm system. Project Role: Project engineer		
e.	(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
	Waiola Subdivision Phase 1, 2 & 3 Waiola, Kauai, Hawaii	2010	On-going
	(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☒ Check if project performed with current firm Design of subdivision including lot/road layout, grading, utility design, erosion control and sewer pump station design. Project Role: Project engineer		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS SERVICE CATEGORY

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN SERVICE CATEGORY	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Austin K. Inouye	Engineer	5	4

15. FIRM NAME AND LOCATION (City and State)

Akinaka & Associates, Ltd. – 1100 Alakea Street, Suite 1800 – Honolulu, Hawaii 96813

16. EDUCATION (DEGREE AND SPECIALIZATION)	17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)
University of Hawaii at Hilo, 2020, BS, Geology	N/A

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

American Council of Engineering Companies of Hawaii, American Water Works Association

19. RELEVANT PROJECTS

a.

(1) TITLE AND LOCATION *(City and State)*

BWS Sanitary Survey
Various locations, Oahu

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
2020	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

☒ Check if project performed with current firm

Inspect facilities owned by the Board of Water Supply for significant deficiencies and recommendations. Site inspections along with photos were taken to document the items that needed to be addressed by the Board of Water Supply.
Project Role: Engineering support

b.

(1) TITLE AND LOCATION *(City and State)*

Repair Trench Drains at Pier 31 & 51-52
Honolulu, Hawaii

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
2010	On-going

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

☒ Check if project performed with current firm

The existing trenches require additional filtration to meet permanent BMP requirements. Selected existing trench drains and drain inlets shall have storm treatment filters installed within them to intercept pollutants & improve runoff charges.
Project Role: Engineering support

c.

(1) TITLE AND LOCATION *(City and State)*

Iwilei Area Sewer Improvements
Honolulu, Hawaii

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
2020	Estimated 2023

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

☒ Check if project performed with current firm

Construction 8-inch diameter sewer and abandon old sewer lines, replacement of sewer lines through and fronting Aala park on King Street, upsizing of sewer line and additional segments downstream to provide capacity for the redevelopment of the Mayor Wright housing.
Project Role: Engineering support

d.

(1) TITLE AND LOCATION *(City and State)*

Puako Waterline Replacement
Hilo, Island of Hawaii

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
2019	2022

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

☒ Check if project performed with current firm

Design of new waterline (8-inch and 12-inch) along Puako Beach Drive. The new waterline shall have external corrosion protections. Permits involved include SMA, NPDES and SHPD compliance.
Project Role: Engineering support

e.

(1) TITLE AND LOCATION *(City and State)*

Parker Ranch Non-Potable Water Study
Island of Hawaii

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
2019	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

☒ Check if project performed with current firm

Review and inventory of non-potable water system, review and evaluation of Parker Ranch's non-potable water study/analysis including review of water registrations, intakes and permits, evaluate current allotments and usage and provide recommendations/strategy on the prioritization of infrastructure and capital expenditures, and renewal of Parker Ranch's water registrations, intakes, and permits. Project role: Engineering support

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS SERVICE CATEGORY

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN SERVICE CATEGORY	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Kevin J. Meagher	Engineer	7	4

15. FIRM NAME AND LOCATION (City and State)

Akinaka & Associates, Ltd. – 1100 Alakea Street, Suite 1800 – Honolulu, Hawaii 96813

16. EDUCATION (DEGREE AND SPECIALIZATION)	17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)
University of California Los Angeles, 2016, B.S., Chemical Engineering	N/A

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

American Council of Engineering Companies of Hawaii, American Water Works Association

19. RELEVANT PROJECTS

a.

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
Kulani Correctional Facility Water Study Hilo, Island of Hawaii	2019	2022

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☒ Check if project performed with current firm

Repair of a leak within the water distribution system, evaluate and improve the existing roof top catchment system, evaluate and improve the existing storage system with the facility as well as evaluate and recommend options to increase treatment of potable water for the facility Project Role: Engineering support

b.

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
1234 Matlock Avenue Honolulu, Hawaii	2021	On-going

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☒ Check if project performed with current firm

Construction of site improvements including grading and water, sewer and drainage related infrastructure. Drainage design includes the design of erosion control measures during construction, design of water quality BMPs, coordination with DPP for plan review and approval and preparation of a Storm Water Quality Report.
Project Role: Engineering support

c.

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
BWS Kalawahine 180' Reservoir Honolulu, Hawaii	2018	On-going

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☒ Check if project performed with current firm

Design of a reinforced concrete reservoir, instrument house, 24" transmission main, irrigation access road improvements, retaining rock wall, installation of a new curb ramps and modifications of existing curb ramps. The waterline design crossed over a stream, which lead to horizontal drilling.
Project Role: Engineering support

d.

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
Waimea Steam Diversion Waimea, Kauai, Hawaii	2017	NA

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☒ Check if project performed with current firm

Design modifications to stream diversions at the Koaie Stream, Waiahulu Stream, and Waimea River on Kauai. Preparation of conceptual designs to monitor stream & ditch flows and modify stream diversions as required at the Koaie and Waiahulu streams, and the Waimea Tailrace (release structure) downstream of the Mauka Hydroelectric Plant (MHP).
Project Role: Engineering support

e.

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
Kanalani Street Extension Island of Hawaii	2018	2022

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☒ Check if project performed with current firm

Construction of a new roadway that would allow for the development of a 40-acre land parcel. Sewer, water and fire hydrants constructed as part of the new roadway, design of a two-lane roadway with traffic in both directions installation of catch basin filters and inlet along with installation of waterline and fire protection.
Project role: Engineering support

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS SERVICE CATEGORY

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN SERVICE CATEGORY	14. YEARS EXPERIENCE	
Bryson T. Tamaye	Junior Engineer	a. TOTAL 3	b. WITH CURRENT FIRM 2

15. FIRM NAME AND LOCATION (City and State)
Akinaka & Associates, Ltd. – 1100 Alakea Street, Suite 1800 – Honolulu, Hawaii 96813

16. EDUCATION (DEGREE AND SPECIALIZATION)	17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)
University of Portland, 2022, BS, Civil Engineering	N/A

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)
ESCP Coordinator Certification, Fall Protection Certified

19. RELEVANT PROJECTS

a.

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
BWS Kalawahine 180' Reservoir Honolulu, Oahu	2018	

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☒ Check if project performed with current firm

Design of a reinforced concrete reservoir, instrument house, 24" transmission main, irrigation, access road improvements, retaining rock wall, installation of new curb ramps and modifications of existing curb ramps. The waterline design crossed over a stream, which lead to horizontal drilling.
Project role: Engineering support

b.

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
Lalamilo 10MG Reservoir Kailua-Kona, Island of Hawaii	2018	On-going

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☒ Check if project performed with current firm

Construction of a 10-million gallon reinforced concrete reservoir and related appurtenances including necessary site improvements, topographic survey, preliminary grading and site layout plan, geotechnical report for the purpose of constructing a 1o MG reinforced concrete reservoir, energy analysis/report for the Lalamilo System with the added storage capacity, conducting an environmental assessment for the project in accordance with the requirements of Chapter 343, HRS and Title 11, Chapter 200, HAR and other related requirements, and review of requests for substitutions, requests for information, change order of proposals, etc.
Project Role: Engineering support

c.

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
North Kohala Water System Improvements Kohala, Island of Hawaii	2018	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☒ Check if project performed with current firm

Planning, design and construction services regarding the North Kohala Water System. Design of an exploratory well that could potentially provide water for agricultural use.
Project Role: Engineering support

d.

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
BWS Sanitary Survey Various locations, Oahu	2024	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☒ Check if project performed with current firm

Inspections of the Board of Water Supply water locations and apputerances.
Project Role: Engineering support

e.

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
Deep Monitor Wells Kailua-Kona, Island of Hawaii	2020	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☒ Check if project performed with current firm

This project involved several tasks pertaining to the Keopu Deep Monitor Well (DMW) in West Hawaii including review and analysis of field data provided by client, preparation and submittal of well permits, construction support for the repair of the Keopu Deep Monitor Well, topographic survey, maps and descriptions for each easement, and construction support for the repair /deepening of up to three wells.
Project Role: Engineering support

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE FIRM'S QUALIFICATIONS FOR THIS SERVICE CATEGORY

(Present no more than 10 projects, with emphasis on previous City projects. Complete one Section F for each project.)

21. TITLE AND LOCATION *(City and State)*	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
Waimea District Park Master Plan Waimea, Big Island, Hawaii	2008	

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
County of Hawaii, Department of Parks & Recreation	N/A	N/A

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS SERVICE CATEGORY *(Include scope, size, and cost)*

This project involved the master planning of the new Waimea District Park.

Project Highlights:

- Assess existing drainage, water, and sewer systems
- Assess grading, access, and parking lot constraints
- Evaluate three alternative layouts
- Civil improvements included grading, site drainage, water system, sewer system, and parking lot
- Schematic plan development

Akinaka & Associates, Ltd. was chosen as the prime civil consultant for the design and construction of the Waimea District Park in 2014.

25. FIRMS INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE
a.	Akinaka & Associates Ltd.	Honolulu, Hawaii	Civil Engineer / Sub-consultant
b.	PBR Hawaii	Honolulu, Hawaii	Prime Consultant
c.			
d.			
e.			
f.			

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE FIRM'S QUALIFICATIONS FOR THIS SERVICE CATEGORY

(Present no more than 10 projects, with emphasis on previous City projects. Complete one Section F for each project.)

21. TITLE AND LOCATION *(City and State)*	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
Waiola Subdivision (Phase 1 & 2) Lihue, Kauai, Hawaii	2005	2021

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Grove Farm Properties	David Hinazumi	(808) 245-3202

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS SERVICE CATEGORY *(Include scope, size, and cost)*

The project provides civil engineering services during the construction of the Waiola I & Waiola II Subdivisions.

Project Highlights:

- Attend pre-construction meeting
- Review of shop drawings
- Review and respond to RFIs
- Attend Owner-Contractor Meetings when required
- Prepare any necessary, post contract drawing changes
- Attend the pre-final and final inspection and prepare accompanying punch-list
- Preparation of as-built plans

25. FIRMS INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE
a.	Akinaka & Associates Ltd.	Honolulu, Hawaii	Prime/Civil Engineer
b.	Ronald NS Ho & Associates Inc.	Honolulu, Hawaii	Electrical Engineer
c.	Okuhara & Associates	Honolulu, Hawaii	Mechanical Engineer
d.	KAI Hawaii	Honolulu, Hawaii	Structural Engineer
e.	Project Design	Honolulu, Hawaii	Architect
f.			

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE FIRM'S QUALIFICATIONS FOR THIS SERVICE CATEGORY

(Present no more than 10 projects, with emphasis on previous City projects. Complete one Section F for each project.)

21. TITLE AND LOCATION *(City and State)*	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
Laiopua Village 4 Subdivision – Phase 2 Hema Kailua-Kona, Big Island, Hawaii	On-going	

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Department of Hawaiian Home Lands	Jeffrey Fujimoto	(808) 620-9274

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS SERVICE CATEGORY *(Include scope, size, and cost)*

This project included the design for a 125 residential lot subdivision. Work includes lot grading, design of six roadways, and subdivision infrastructure including sewer, water drainage, landscaping and electrical.

Project Highlights:

- 125 residential lot subdivision
- Lot grading
- Design of 5 roadways
- Subdivision infrastructure - sewer, water drainage & electrical

Sewer:

- 3,900 linear feet of 8" PVC sewer
- 20 man holes

Drain:

- 31 catch basins
- 17 dry wells
- 600 linear feet of 18" RCP

Water:

- 4,000 linear feet of 8" DI water main
- 8 fire hydrants
- Water system for subdivision on two separate water service zones

Permits:

- NPDES Form C
- UIC

25. FIRMS INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE
a.	Akinaka & Associates Ltd.	Honolulu, Hawaii	Prime/Civil Engineer
b.	Ronald N.S. Ho & Associates	Honolulu, Hawaii	Electrical Engineer
c.	Engineers Surveyors Hawaii	Honolulu, Hawaii	Surveyors
d.	Fewell Geotechnical	Honolulu, Hawaii	Geotechnical Engineer
e.	KAI Hawaii	Honolulu, Hawaii	Structural Engineer
f.			

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE FIRM'S QUALIFICATIONS FOR THIS SERVICE CATEGORY

(Present no more than 10 projects, with emphasis on previous City projects. Complete one Section F for each project.)

21. TITLE AND LOCATION *(City and State)*	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
Kumuhau Subdivision Waimanalo, Oahu, Hawaii	2009	2012

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Department of Hawaiian Home Lands	Jeffrey Fujimoto	(808) 620-9274

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS SERVICE CATEGORY *(Include scope, size, and cost)*

This project included the design of a 52 lot subdivision in Waimanalo, Hawaii. Improvements included lot grading, roadway design, design of drainage, water and sewer system to support subdivision. Major challenges included to accommodate the design of a subdivision on property within FEMA flood zones.

Project Highlights:

- Grading for 52 residential lots
- Design of a detention basin on site with outlet to an existing stream
- 1,400 linear feet of new roadway (2 roads)
- 2,230 linear feet of 8" & 10" VCP sewer main & 12 man holes
- 1,600 linear feet of 8" D.I. water main & 2 fire hydrants
- Horizontal directional drilling for fiber optic line
- 3 pads for USPS mailbox clusters
- 1,925 linear feet of 18" & 24" RCP drain line
- 20 catch basins
- 2 grate inlets
- 1 drain manhole

Applicable Permits:

- NPDES Form C
- DOH 401 Water Quality Certification
- Stream Channel Alteration Permit
- Army Corps 404 Permit

25. FIRMS INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE
a.	Akinaka & Associates Ltd.	Honolulu, Hawaii	Prime/Civil Engineer
b.	Fewell Geotechnical	Honolulu, Hawaii	Geotechnical Engineer
c.	ACE Surveying	Honolulu, Hawaii	Surveyors
d.	KAI Hawaii	Honolulu, Hawaii	Structural Engineer
e.			
f.			

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE FIRM'S QUALIFICATIONS FOR THIS SERVICE CATEGORY

(Present no more than 10 projects, with emphasis on previous City projects. Complete one Section F for each project.)

21. TITLE AND LOCATION *(City and State)*	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
Makani Pilot Project Waimea, Big Island, Hawaii	2014	2016

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Makani (Google Inc.)	Scot Johnson	(650) 793-2951

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS SERVICE CATEGORY *(Include scope, size, and cost)*

This project involved civil site improvements for the Makani (Google Inc.) Pilot Project in Waimea, Big Island.

Project Highlights:

- Construction managements
- Preparation of field reports
- Design of access road from entrance gate to project site
- Design of O&M tent
- Grading improvements
- Drainage improvements
- Grounding and Lightning Protection Plan
- Assist with transportation plan on transporting the kite from the pier to the project site
- Archaeological preservation plan
- Define appropriate agencies required to deploy the system
- Define the different stakeholders (government and private)
- Foundation design
- Electrical system/connection to quarry, study of existing system operating at quarry

25. FIRMS INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE
a.	Akinaka & Associates Ltd.	Honolulu, Hawaii	Civil Engineer – Prime Consultant
b.	KAI Hawaii	Honolulu, Hawaii	Electrical Engineer
c.	Fewell Geotechnical	Honolulu, Hawaii	Geotechnical Engineer
d.	ASM Affiliates	Honolulu, Hawaii	Archaeology Review
e.	Geometrician	Honolulu, Hawaii	Botanical Survey
f.	Rana Biological Consulting	Honolulu, Hawaii	Biological Survey (Renewable Fauna)

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE FIRM'S QUALIFICATIONS FOR THIS SERVICE CATEGORY

(Present no more than 10 projects, with emphasis on previous City projects. Complete one Section F for each project.)

21. TITLE AND LOCATION *(City and State)*	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
Hanapepe Pipeline Hanapepe, Kauai, Hawaii	2015	Estimated December 2016

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
County of Kauai, Department of Water Supply	Kirk Saiki	(808) 245-5411

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS SERVICE CATEGORY *(Include scope, size, and cost)*

This project involved the reorganization of the water system and pipeline connecting Hanapepe and Ele'ele and Hanapepe 6" waterline replacement.

Project Highlights:

- Installation of new waterline along Kaumualii Highway to interconnect the Hanapepe and Ele'ele water systems
- Installation of 6-inch main replacement along Hanapepe Road
- Preparation of Preliminary Engineering Report (PER)
- Design of piping on bridge
- Design of emergency pump connection
- Approximately 2,600 l.f. of 12-inch waterline along Hanapepe Road, including bridge crossing
- Approximately 2,800 l.f. of 16-inch waterline along Kaumualii Highway

Permits Involved:

- NPDES
- Department of Army Nationwide Permit
- DOH 401 Water Quality
- DLNR Stream Channel Alteration
- SMA Permit

25. FIRMS INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE
a.	Akinaka & Associates, Ltd.	Honolulu, Hawaii	Prime Civil Engineer
b.	Geolabs, Inc.	Honolulu, Hawaii	Geotechnical Engineer
c.	Esaki Surveying	Lihue, Kauai	Surveying
d.	Ron Ho & Associates	Honolulu, Hawaii	Electrical Engineer
e.	Fung Associates	Honolulu, Hawaii	Historic Consultation
f.	Scientific Consultant Services	Honolulu, Hawaii	Archaeological

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE FIRM'S QUALIFICATIONS FOR THIS SERVICE CATEGORY

(Present no more than 10 projects, with emphasis on previous City projects. Complete one Section F for each project.)

21. TITLE AND LOCATION *(City and State)*	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
Kulani Correctional Facility Water Study Hilo, Hawaii	2019	Ongoing

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
State of Hawaii Department of Public Safety	Wayne Takara	(808) 587-3463

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS SERVICE CATEGORY *(Include scope, size, and cost)*

Project Highlights:

- Inventory existing conditions, research exiting information and record drawings at DPS, KCF, and DAGS, obtain new facility plot plan and property boundary from DPS. We understand DPS has recently had this done and will be used for the project reports and studies, field verify facility, its structure and their uses, inventory and assess the existing water system and its condition, and create a water system model of the existing system.
- Assess existing and future domestic and non-potable water and fire protection requirements and demands., obtain and compile existing water system usage and trucked water data, estimate existing domestic and non-potable water and fire protection requirements and demands, estimate projected domestic and non-potable water and fire protection requirements and demands.
- Investigate and provide recommendations to repair a suspected leak within the existing distribution system and prepare bid document to repair the leak based on findings.
- Provide construction management services for leak repair construction within the existing on-site water system
- Study ad provide recommendations to improve the existing storage system within the facility
- Assess the existing auxiliary catchment system located to the South of the facility. Propose and provide limited coordination with DLNR.
- Assess the existing condition of the Old Boys Home catchment, storage and distribution system
- Provide research and limited coordination to provide a water truck fill station closer to KCF, prepare construction plans and contract documents to bid and construct the fill station, process permits required to construct the fill station, provide construction management services during construction of the fill station.
- Investigate the potential to provide more catchment using the HELCO Powerline Road, discuss the potential for a new well source in the KCF area
- Prepare and submit a Draft Report
- Prepare and submit the Final Report

25. FIRMS INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE
a.	Akinaka & Associates Ltd.	Honolulu, Hawaii	Prime/Civil Engineer
b.	Ronald NS Ho & Associates Inc.	Honolulu, Hawaii	Electrical Engineer
c.	Waimea Water Services	Kamuela, Hawaii	Water resources
d.	Myounghee Noh & Associates	Aiea, Hawaii	Environmental Engineer
e.			

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE FIRM'S QUALIFICATIONS FOR THIS SERVICE CATEGORY

(Present no more than 10 projects, with emphasis on previous City projects. Complete one Section F for each project.)

21. TITLE AND LOCATION *(City and State)*	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
Lalamilo Offsite Water System Improvements Waimea, South Kohala, Big Island, Hawaii	2010	2011

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
State Department of Hawaiian Home Lands	Royden Ishii	(808) 620-9278

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS SERVICE CATEGORY *(Include scope, size, and cost)*

This project included offsite water system improvements required to service DHHL's Lalamilo residential development at Lalamilo, S. Kohala, Big Island, Hawaii. Improvements included a one million gallon tank, site improvements, connecting to an existing 100,000 gallon tank and 9,200 linear feet of 16-inch transmission main to the development site. Project involved the study of an existing water system, analysis of an existing water source, storage, transmission and distribution, and calculating water demands based on land use/zoning/master planning.

Project Highlights:

- 1,000,000 gallon reservoir
- Site improvements
- Provisions for a future well pump installation
- 9,200 l.f. 16-inch transmission main

Construction Cost: $6,200,000

25. FIRMS INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE
a.	Akinaka & Associates Ltd.	Honolulu, Hawaii	Civil Engineer, Sub-consultant
b.	KAI Hawaii Inc.	Honolulu, Hawaii	Structural Engineer
c.	Ronald NS Ho & Associates Inc.	Honolulu, Hawaii	Electrical Engineer
d.	Community Planning, Inc.	Honolulu, Hawaii	Prime Consultant
e.			
f.			

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE FIRM'S QUALIFICATIONS FOR THIS SERVICE CATEGORY

(Present no more than 10 projects, with emphasis on previous City projects. Complete one Section F for each project.)

21. TITLE AND LOCATION *(City and State)*	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
Palani Well No. 1 Kailua-Kona, Big Island, Hawaii	2006	2013

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Lanihau Properties/Palani Ranch	James Greenwell	

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS SERVICE CATEGORY *(Include scope, size, and cost)*

This project is a privately developed potable deep well pump station and 1.0 million gallon tank located in Kailua-Kona, Hawaii. Upon completion, the facility will be dedicated to the Hawaii County Dept. of Water Supply and become an integral component of the Hawaii County Dept. of Water Supply's North Kona Water System. The project began with an exploratory deep well which proved to be of ample quantity and good safe drinking water quality. The project then progressed to outfitting the well with a deep (1,800-ft.) submersible pump of 1,100 gpm capacity.

Project involved the negotiating of water credits, study of an existing water system, analysis of an existing water source, storage, transmission and distribution, hydrological study to determine possible water sources, drilling and testing of exploratory well, drilling, testing and development of a production well and permitting (well drilling).

Project Highlights:
- One 1,100 gmp Well Pump Station
- One 1,000,000 gallon Reservoir
- Access road
- Reservoir site improvements
- 3,200 linear feet of 12" D.I. transmission main
- 100 linear feet of RCP drain

Permits/Reports:
- Building Permit
- NPDES Form C & F
- Grading Permit
- Stockpiling Permit
- Pump Installation

25. FIRMS INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE
a.	Akinaka & Associates Ltd.	Honolulu, Hawaii	Prime/Civil Engineer
b.	Ronald N.S. Ho & Associates	Honolulu, Hawaii	Electrical Engineer
c.	Okahara & Associates, Inc.	Honolulu, Hawaii	Mechanical Engineer
d.	KAI Hawaii Inc.		Structural Engineer
e.			
f.			

G. KEY PERSONNEL PARTICIPATION IN EXAMPLE PROJECTS

24. NAMES OF KEY PERSONNEL (From Section E, Block 11)	25. ROLE IN EXAMPLE PROJECT	26. EXAMPLE PROJECTS LISTED IN SECTION F (Fill in "Example Projects Key" section below before completing table. Place "X" under project key number for participation in same or similar role.)									
		1	2	3	4	5	6	7	8	9	10
Ken Kawahara	Principal PM	☒	☐	☐	☒	☒	☒	☒	☒	☐	☒
Scott Kunioka	Project Manager	☐	☒	☒	☐	☐	☐	☐	☒	☐	☐
Gavin Ganal	Project Engineer	☒	☐	☐	☒	☐	☒	☒	☐	☒	☒
Austin Inouye	Engineer	☐	☐	☐	☐	☐	☐	☐	☒	☐	☐
Kevin Meagher	Engineer	☐	☐	☒	☐	☐	☐	☐	☒	☐	☐
W. Roy Hardy	Project Manager	☐	☒	☒	☐	☐	☐	☐	☐	☒	☐
Bryson Tamaye	Junior Engineer	☐	☒	☒	☐	☐	☐	☐	☐	☒	☐
		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

27. EXAMPLE PROJECTS KEY

NO.	TITLE OF EXAMPLE PROJECT (FROM SECTION F)	NO.	TITLE OF EXAMPLE PROJECT (FROM SECTION F)
1	Waimea District Park	6	Galbraith 3.0 & 10.0 MG Reservoirs
2	Waiola Subdivision I & II Construction Management	7	Hanapepe Pipeline
3	Laiopua Village 4 HEMA	8	Kulani Correctional Facility Water Study
4	Kumuhau Subdivision	9	Lalamilo 10 MG Reservoir
5	Makani Pilot Program	10	Palani Well I

H. ADDITIONAL INFORMATION

30. PROVIDE ANY ADDITIONAL INFORMATION AT YOUR DISCRETION. ATTACH ADDITIONAL SHEETS AS NEEDED

Proposed Project Team:

Sub-consultants:
KAI Hawaii – Structural Engineers
Ronald N.S. Ho & Associates – Electrical Engineers
ControlPoint – Surveyors
Geolabs – Geotechnical Engineers
Environmental Planning Solutions – Environmental Consultant

All sub-consultant work will be coordinated by Akinaka & Associates, Ltd. In addition, all communication with the client shall be through Akinaka & Associates, Ltd.

Company Background:

Akinaka & Associates, Ltd. is a locally (Kama'aina) owned company that has been providing professional engineering services to the Hawaii community since its inception in 1941 as a sole proprietorship by Arthur Y. Akinaka. In 1966, the firm was incorporated and since 1984 led by Robert Y. Akinaka. Today, the company is a locally owned firm headed by Ken C. Kawahara, P.E.

The principals & senior staff represent over 90 years of civil engineering experience. The technical staff consists of eight licensed civil engineers and a licensed surveyor. The average design experience for the technical staff is over 20 years. The staff of Akinaka & Associates, Ltd. has worked successfully on many State, County and private projects with accelerated schedules and restrictive budgets, at the same time achieving a level of quality commensurate with the engineering standard of practice.

The firm's experience has included projects in both the public and private sector including:

- Construction Management
- Major water system facilities
- Due diligence assessments for property acquisitions
- Highway/roadway facilities
- Airport & Harbor facilities
- Sanitary sewer
- Storm drainage
- Schools
- Residential & Agricultural
- Subdivisions
- Golf Courses
- Commercial Development
- Master Planning

Design experience also includes conformance to:

- City & County approvals
- State approvals
- Federally funded projects
- ADA requirements
- Environmental Permits
- Well Pump Drilling, Testing & Casing
- Pump Installation Permits

Capacity of the Firm & Key Personnel to Accomplish the work in the required time:
Akinaka & Associates, Ltd. has worked successfully on many State, County and private projects with accelerated schedules and restrictive budgets, at the same time achieving a level of quality commensurate with the engineering standard of practice.

Akinaka & Associates, Ltd. has the capacity to accomplish the work in the required time with the available or proposed resources. Commitment of resources will be dedicated to complete the project on-time should we be selected as the consultant for the project. Principal involvement in projects with time constraints assures that the firm will be focused on meeting the goals of the County of Hawaii, Housing & Community Development. Our firm is familiar with the procedures, standards and requirements of the State of Hawaii, federal funded projects, and all required permitting processes.

Akinaka & Associates, Ltd. uses software to efficiently design and draft projects, making production of plans seamless. All employees are proficient in computer aided design which promotes a high level of quality control. Deltek software is used to track man-hours and project budgets to allow project managers the ability to forecast workload and employee availability. Scheduling software assists project managers in proper scheduling to maintain oversight on projects and to assure that all work products produced by the firm undergoes proper quality control.

We continue to work with an integrated consultant group based on performance on a timely basis and product quality. Plans, data and other shared information will be distributed through electronic mail. Telephone conferences will be implemented to reduce administrative and coordination time. Initial establishment of a basis of planning and drawing protocols will facilitate in coordination and review.

The timing of the subject project is appropriate for the workload of the firm. Projects that are presently active will either be completed before the subject project begins or are already staffed.

Client References:
Riley Smith - Lanihau Properties, CEO
P.O. Box 9032
Kailua-Kona, Hawaii 96745
Phone: (808) 936-7129

Warren Haruki -Grove Farm Properties, President
1100 Alakea Street
Honolulu, Hawaii 96813
Phone: (808) 245-3678

Carty Chang, P.E. - Department of Land & Natural Resources, Chief Engineer
1151 Punchbowl Street, Room 221
Honolulu, Hawaii 96813
Phone: (808) 587-0230

Ernest Lau, P.E. - Board of Water Supply, Manager & Chief Engineer
630 S. Beretania Street
Honolulu, Hawaii 96843
Phone: (808) 748-5030

I. AUTHORIZED REPRESENTATIVE
The foregoing is a statement of facts.

31. SIGNATURE	32. DATE
Ken C. Kawahara	6/26/2024
33. NAME AND TITLE Ken C. Kawahara, P.E., President	

PROFESSIONAL SERVICE PROVIDER QUALIFICATIONS

1. PROJECT CATEGORY OF INTEREST: General Engineering (Project Manager)

PART II - GENERAL QUALIFICATIONS

(If a firm has branch offices, complete for each specific branch office seeking work.)

2a. FIRM (OR BRANCH OFFICE) NAME: Akinaka and Associates, Ltd.		3. YEAR ESTABLISHED: 1941	4. DUNS NUMBER:
2b. STREET: 1100 Alakea Street, Suite 1800		5. OWNERSHIP a. TYPE: Corporation	
2c. CITY: Honolulu	2d. STATE: Hawaii / 2e. ZIP CODE: 96813	b. SMALL BUSINESS STATUS: In good standing	
6a. POINT OF CONTACT NAME AND TITLE: Ken C. Kawahara, P.E. - President		7. NAME OF FIRM *(If block 2a is a branch office)*	
6b. TELEPHONE NUMBER: 808-836-1900	6c. E-MAIL ADDRESS: kck@akinaka.com		
8a. FORMER FIRM NAME(S) *(If any)*		8b. YR. ESTABLISHED	

9. EMPLOYEES BY DISCIPLINE

a. Function Code	b. Discipline	c. No. of Employees (1) Firm	c. No. of Employees (2) Branch
02	Administrative	2	
08	CADD Technician	2	
12	Civil Engineer	7	
38	Land Surveyor	1	
	Other Employees		
	Total	12	

10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS

a. Profile Code	b. Experience	c. Revenue Index Number *(see below)*
C12	Communications Systems	1
E02	Educational Facilities; Classrooms	5
F03	Fire Protection	2
H07	Highways; Streets; Airfield Paving; Parking Lots	6
H11	Housing (Residential)	3
I06	Irrigation; Drainage	1
P05	Planning (Community)	2
P06	Planning (Site)	2
R04	Recreation Facilities	2
S04	Sewage Collection; Treatment & Disposal	2
S13	Storm water handling & facilities	3
W02	Water resources; Hydrology; Ground water	2
W03	Water supply; Treatment & Distribution	5

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS

(Insert revenue index number shown at right)

a. City and BWS Work	2
b. Non City and BWS Work	4
c. Total Work	6

PROFESSIONAL SERVICES REVENUE INDEX NUMBER

1. Less than $100,000
2. $100,00 to less than $250,000
3. $250,000 to less than $500,000
4. $500,000 to less than $1 million
5. $1 million to less than $2 million
6. $2 million to less than $5 million
7. $5 million to less than $10 million
8. $10 million to less than $25 million
9. $25 million to less than $50 million
10. $50 million or greater

12. AUTHORIZED REPRESENTATIVE The foregoing is a statement of facts.

a. SIGNATURE	b. DATE
Ken C. Kawahara	6/26/2024

General License

License ID PE-9148	**Entity Type** INDIVIDUAL	**Restriction** --	**Class Prefix** --
License Type PROFESSIONAL ENGINEER	**Active/Inactive** ACTIVE	**Trade/Professional Name** --	**Business Code** --
Legal License Name KEN C KAWAHARA	**Original License Date** 02/18/1997	**Special Privilege** --	**Educational Code** --
Status CURRENT, VALID & IN GOOD STANDING	**Expiration Date** 04/30/2026	**Conditions & Limitations** --	
Business Address --			

General License

License ID PE-7257	**Entity Type** INDIVIDUAL	**Restriction** --	**Class Prefix** --
License Type PROFESSIONAL ENGINEER	**Active/Inactive** ACTIVE	**Trade/Professional Name** --	**Business Code** --
Legal License Name SCOTT A KUNIOKA	**Original License Date** 09/11/1991	**Special Privilege** --	**Educational Code** --
Status CURRENT, VALID & IN GOOD STANDING	**Expiration Date** 04/30/2026	**Conditions & Limitations** --	
Business Address --			

General License

License ID PE-14527	**Entity Type** INDIVIDUAL	**Restriction** --	**Class Prefix** --
License Type PROFESSIONAL ENGINEER	**Active/Inactive** ACTIVE	**Trade/Professional Name** --	**Business Code** --
Legal License Name GAVIN M GANAL	**Original License Date** 06/20/2011	**Special Privilege** --	**Educational Code** --
Status CURRENT, VALID & IN GOOD STANDING	**Expiration Date** 04/30/2026	**Conditions & Limitations** --	
Business Address --			

General License

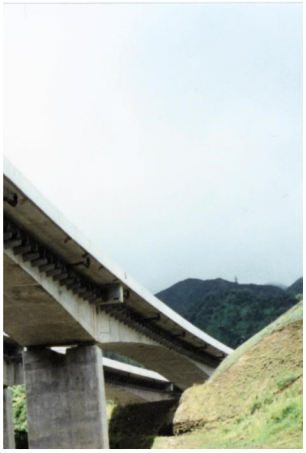
License ID PE-7548	**Entity Type** INDIVIDUAL	**Restriction** --	**Class Prefix** --
License Type PROFESSIONAL ENGINEER	**Active/Inactive** ACTIVE	**Trade/Professional Name** --	**Business Code** --
Legal License Name WILLIAM R HARDY	**Original License Date** 09/08/1992	**Special Privilege** --	**Educational Code** --
Status CURRENT, VALID & IN GOOD STANDING	**Expiration Date** 04/30/2026	**Conditions & Limitations** --	
Business Address --			

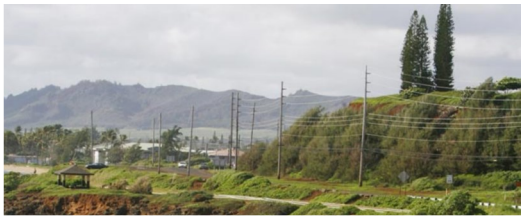
General License

License ID LS-8652	**Entity Type** INDIVIDUAL	**Restriction** --	**Class Prefix** --
License Type LAND SURVEYOR	**Active/Inactive** ACTIVE	**Trade/Professional Name** --	**Business Code** --
Legal License Name BENJAMIN M GANAL	**Original License Date** 09/13/1995	**Special Privilege** --	**Educational Code** --
Status CURRENT, VALID & IN GOOD STANDING	**Expiration Date** 04/30/2026	**Conditions & Limitations** --	
Business Address --			

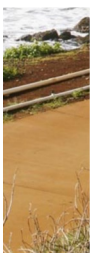
Engineering
for Hawaii Since
1941



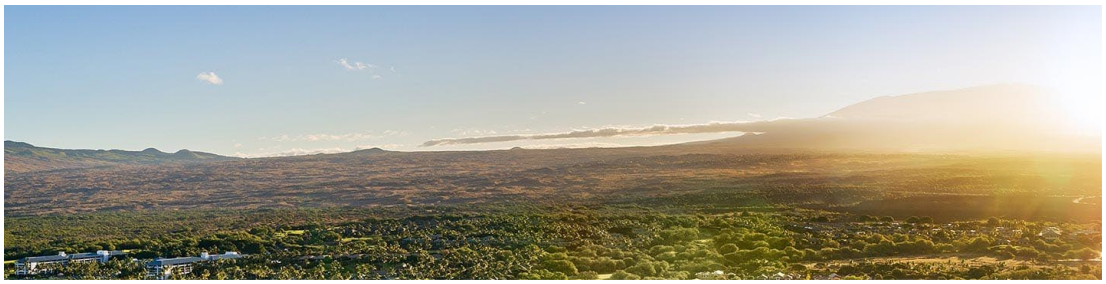
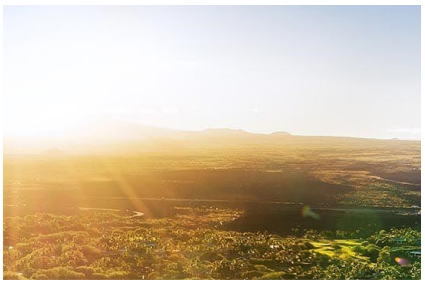




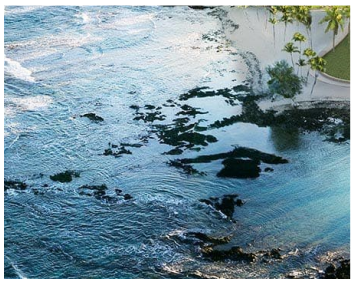
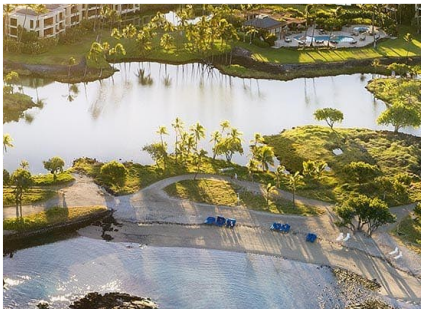


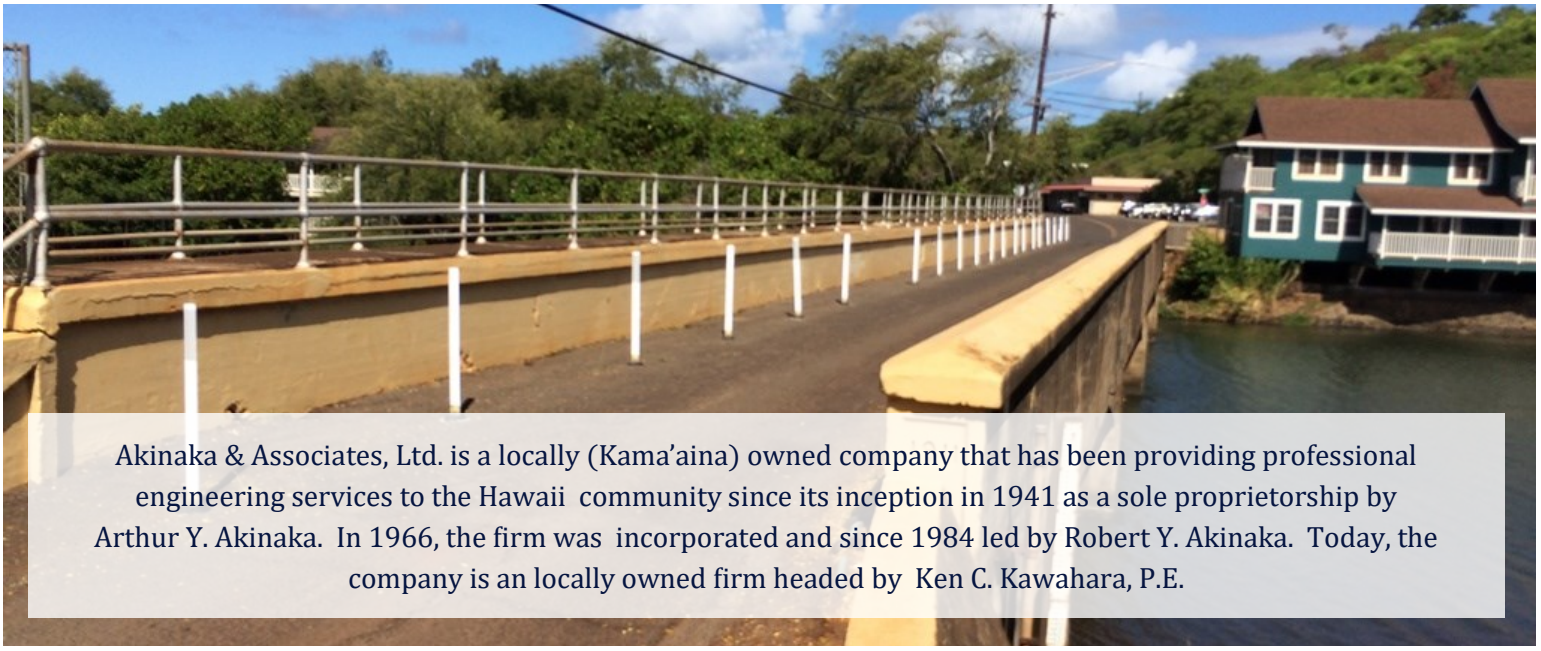


AKINAKA
& ASSOCIATES, LTD.
CONSULTING CIVIL ENGINEERS





Akinaka & Associates, Ltd. is a locally (Kama'aina) owned company that has been providing professional engineering services to the Hawaii community since its inception in 1941 as a sole proprietorship by Arthur Y. Akinaka. In 1966, the firm was incorporated and since 1984 led by Robert Y. Akinaka. Today, the company is an locally owned firm headed by Ken C. Kawahara, P.E.

With over 80 years of civil engineering experience, Akinaka & Associates, Ltd. has the ability and knowledge to provide the following services to our clients:

- Civil Engineering
- Water System Engineering
- Wastewater Engineering
- Planning & Consulting
- Permitting

The principals & senior staff represent over 90 years of civil engineering experience. The technical staff Consists of six licensed civil engineers and a licensed surveyor. The average design experience for the technical staff is over 20 years. The staff of Akinaka & Associates, Ltd. has worked successfully on many State, County and private projects with accelerated schedules and restrictive budgets, at the same time achieving a level of quality commensurate with the engineering standard of practice.

The firm's experience has included projects in both the public and private sector including:
Major water system facilities * Highway and Roadway facilities * Airport & Harbor facilities Sanitary sewer * Storm drainage * Schools Residential & Agricultural Subdivisions Golf Courses * Commercial Development Master Planning

Design experience also includes conformance to:
City & County approvals * State approvals Federally funded projects * ADA requirements Environmental Permits * Well Pump Drilling, Testing & Casing Pump Installation Permits

AKINAKA & ASSOCIATES, LTD.

Consulting Civil Engineers

Ken Kawahara, P.E.
President
Business development, project oversight, proposal writing, client relations, marketing and project management

Scott Kunioka, P.E.
Senior Project Manager
Project oversight, preliminary design, scheduling, marketing, proposal writing

Ben Ganal, L.P.L.S.
Senior Designer
Technical design, lead production of reports, exhibits & permits, quality control of plans

W. Roy Hardy, P.E.
Project Engineer
Project engineering details specializing in water resources, capacity and distribution

Gavin Ganal, P.E.
Project Engineer
Technical design, project and sub-consultant coordination, report and permit writing

Austin Inouye
Engineer
AutoCAD drawings and plans, water source reports, project permitting, field investigations

Kevin Meagher
Engineer
AutoCAD drawings and plans, water source reports, project permitting, field investigations

Bryson Tamaye
Junior Engineer
Development of AutoCAD drawings, permitting, report writing

Noah Bumanglag
Junior Engineer
Development of AutoCAD drawings, permitting, report writing

Reid Takasaki
Junior Engineer
Development of AutoCAD drawings, permitting, report writing

Joe Keane
IT Manager
Overseas the IT management for the office, proficient in AutoCAD drawings and plans

Naomi Shibahara
Accounting
Overseas the accounting for the firm including accounts receivable and payables

Darnelle Chung
Operations Analyst/HR
Analysis operations of the firm and job productivity and overseas Human Resources for the firm

1100 Alakea Street, Suite 1800 * Honolulu, Hawaii 96813
Phone: (808) 836-1600 * Fax: (808) 836-8852 * www.akinaka.com

PALANI WELL NO. 1

Location: Kailua-Kona, Island of Hawaii ✦ Client: Lanihau Properties / Palani Ranch

PROJECT HIGHLIGHTS:

This project is a privately developed potable deep well pump station and 1.0 million gallon tank located in Kailua-Kona, Big Island. Upon completion, the facility was dedicated to the Hawaii County Department of Water Supply and become an integral component of the Hawaii County Department of Water Supply's North Kona Water System.

The project began with an exploratory deep well which proved to be of ample quantity and good safe drinking water quality. The project then progressed to outfitting the well with a deep (1,800 feet) submersible pump of 1,100 gpm capacity. Project involved the negotiating of water credits, study of an existing water system, analysis of an existing water source, storage, transmission and distribution, hydrological study to determine possible water sources, drilling and testing of exploratory well, drilling, testing and development of a production well and permitting.

Permits Required

Building permit
NPDES Form C & F
Grading permit
Stockpiling permit
Pump installation permit

Project Team

Ronald N.S. Ho & Associates - Electrical Engineer
Okahara & Associates - Mechanical Engineer
KAI Hawaii, Inc. - Structural Engineer
R. M. Towill Corporation - Land Surveying
Fewell Geotechnical - Geotechnical Engineer
Geometrician - Environmental Consultant

MAKANI WIND PILOT PROJECT

Location: Waimea, Island of Hawaii ✦ Client: Google, Inc.

PROJECT HIGHLIGHTS:
This project involved providing civil engineering support as well as project management for Google Inc. to deploy a 600kw Airborne Wind Turbine prototype on land owned and operated by Parker Ranch.

Phase 1: Analysis of site location and accessibility, environmental due diligence, community relations, identify applicable regulatory agencies, engage agencies in discussion of the project and define the process required in order to deploy the prototype and operate, if necessary.

Phase 2: Identify permits, geotechnical subsurface investigation, topographic survey, environmental compliance

Phase 3: Schedule for design process, drainage analysis, design access road, grading for foundation, design of electrical system, plans and specifications for construction, community relations

Phase 4: Services during construction, support during testing of wind turbine, construction management

Permits Required

Building permit
State Historic Preservation Division (SHPD)
NPDES Form C & F

Project Team

Ronald N.S. Ho & Associates - Electrical Engineer
Engineers Surveyors Hawaii - Surveyor
KAI Hawaii, Inc. - Structural Engineer
Rana Productions - Avian Survey/Fauna
Fewell Geotechnical - Geotechnical Engineer
Geometrician - Environmental & Botany Consultant

HANAPEPE PIPELINE

Location: Hanapepe & Ele'ele, Kauai ✦ Client: County of Kauai, Department of Water

PROJECT HIGHLIGHTS:
The objective of the project was to reorganize the water system and pipeline connecting Hanapepe and Ele'ele and Hanapepe 6" waterline replacement.

The project included the installation of a new waterline along Kaumualii Highway to interconnect the Hanapepe and Ele'ele water systems, preparation of a Preliminary Engineering Report (PER), design of piping on the bridge, design of an emergency pump connection.

Portion of the waterline crosses the 1911 Hanapepe bridge (considered to be historic by the residents). Placement of the waterline across the bridge would negatively impact the bridge and the bridge is part of a floodway under the jurisdiction of the U.S. Coast Guard and U.S. Army Corps of Engineers. In order to minimize the impact of the bridge, we needed to work and obtain easements from private land owners and install a section of the waterline via horizontal directional drilling.

Permits Required

NPDES
Section 10, Army
DCAB
Small Management Area (SMA)
Grading permit
Shoreline Setback

Project Team

KAI Hawaii, Inc. - Structural Engineer
Fung Associates, Inc. - Architectural Survey
Esaki Surveying - Surveyor
Geolabs, Inc. - Geotechnical Engineer
Geometrician - Environmental Assessment

KUMUHAU SUBDIVISION

Location: Waimanalo, Oahu ✦ Client: State of Hawaii, Department of Hawaiian Home Lands

PROJECT HIGHLIGHTS:
Design of a 52-lot subdivision in Waimanalo, Oahu. Improvements included lot grading, roadway design, design of drainage, water and sewer systems to support the new subdivision.

Major challenges included the accommodation of the subdivision design on property within the FEMA flood zones. The project also included limited services during construction including RFIs and submittal reviews, construction site visits and the production of as-built plans.

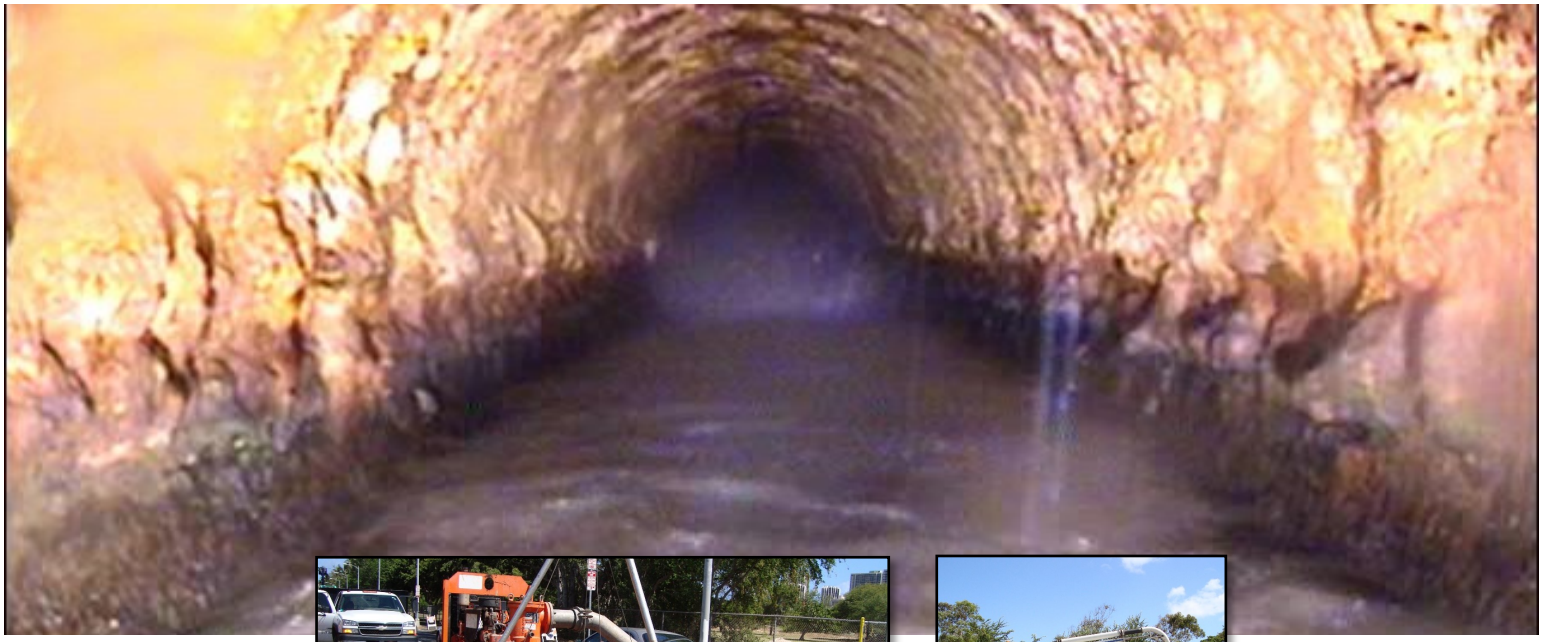
The project included the design of a detention basin on stie with outlet to an existing stream and horizontal directional drilling for the installation of a fiber optic line. Design elements included over 6,000 linear feet of sewer main and water lines, 20 catch basins, 2 grate inlets and 3 pads for USPS mailbox clusters.

Permits Required

NDPES
DOH 401 Water Quality
Stream Channel Alteration
Army Corps 404

Project Team

KAI Hawaii, Inc. - Structural Engineer
ACE Surveying - Surveyor
Fewell Geotechnical - Geotechnical Engineer
Armstrong Builders - Contractor
Ronald N.S. Ho & Associates - Electrical Engineer



MOILIILI-KAPAHULU SEWER REHABILITATION

Location: Honolulu, Oahu ✦ Client: City & County of Honolulu, Department of Design and Construction

PROJECT HIGHLIGHTS:
This project was conducted in two phases: Planning & Design. The objective was to correct current structural and/or hydraulic deficiencies in a portion of sewer along Date Street.

Planning phase involved the study of 6,800 linear feet of sewer main (from 14" to 42" in diameter) via CCTV video and the inspection of 42 manholes. Manhole and pipeline assessments were done via NASSCO's MACP and PACP reports. This phase also included the review of alternatives for rehabilitation and reconstruction and the development of a Design Alternatives Report (DAR).

Design phase included the rehabilitation/reconstruction of 4,200 linear feet of sewer line along Date Street and the installation of 1,860 linear feet of sewer line. In this phase, plans, specifications and cost estimates were required to support the Design Alternatives Report (DAR).

Permits Required

NDPES
Noise Variance
DCAB

Project Team

KAI Hawaii, Inc. - Structural Engineer
ACE Surveying - Surveyor
Eckard Brandes, Inc - CCTV
Fewell Geotechnical - Geotechnical Engineer
PBR Hawaii - Environmental Assessment

1100 Alakea Street, Suite 1800
Honolulu, Hawaii 96813

Phone: (808) 836-1900
akinaka.com

AKINAKA
& ASSOCIATES, LTD.
CONSULTING CIVIL ENGINEERS

KEN C. KAWAHARA, P.E.

PRESIDENT

1100 Alakea Street #1800
Honolulu, HI 96813

(808) 836-1900 ext. 668

kck@akinaka.com

www.akinaka.com

EXPERIENCE
Akinaka & Associates, Ltd.
President, 2011 - Present
Business VP, 2010 - 2011

State of Hawaii, Department of Natural Resources
Deputy Director, 2007 - 2010

City & County of Honolulu, Department of Environmental Services
Acting Regulatory Control Branch Chief, 1997 - 2007

Gentry Homes, Ltd.
Construction Engineer, 1996

REGISTRATIONS
State of Hawaii, #9148
Professional Engineer

EDUCATION
University of Hawaii at Manoa
1992, B.S.
Civil Engineering

QUALIFICATIONS & TRAINING
Maritime Security Awareness Training (MARSEC)

Prior to joining Akinaka & Associates, Ltd., Ken served as the Deputy Director for the State of Hawaii, Department of Land and Natural Resources, Commission on Water Resource Management. He implemented the State Water Code statue, rules, and directives of the Commission to protect and manage the groundwater and surface water resources for all of the Hawaiian islands. In addition, he oversaw the Engineering Division, Office of Conservation and Coastal Lands, State Parks, Division of Forestry and Wildlife and the Division of Aquatic Resources. He also represented the Department on the Natural Area Reserves Commission.

His professional experience in both the private and public sectors includes planning, design, contracting, construction, construction management, regulatory compliance and environmental quality monitoring. He has extensive experience in management for a variety of projects including water resource and system management, master planning, wastewater pretreatment, collection, treatment, disposal, recycled water and biosolids reclamation. In addition to working at the State DLNR, Mr. Kawahara has worked for M&E Pacific (now AECOM), R.M. Towill Corporation, Gentry Homes and the City and County of Honolulu Department of Environmental Services.

PROJECT EXPERIENCE

Water/Wastewater Due Diligence for the Acquisition of the Mauna Lani Resorts & Properties
To review the current potable and non-potable water systems; engineering design and reports, provide analysis of system and possible opportunities for water system growth and expansion. Project involved the determination if there will be enough potable water available to the properties and facilities in Mauna Lani Resort. In order to do that two types of potable water was measures: 1) the water use of existing properties and facilities and 2) potential water use of currently unbuilt properties. In addition, the project involved the evaluation of whether or not the existing wastewater treatment plant would be able to accommodate future flows from the currently unbuilt properties and options for disposal of the additional wastewater effluent.

Keauhou Development Water Agreement
Review documents such as previous studies, agreements, etc. Meet with the Hawaii Department of Water Supply to determine the water credits that were available from the former hotel's 4-inch water meter. Provide innovative justification to transfer water credits from former Kona Lagoons parcel to other designated Kamehameha Investment Corporation (KIC) parcels. Negotiating the transfer of water credits to other KIC parcels, establish water system improvements required for the Keauhou Resort Master Plan and acknowledge the engineering conditions of agreement, water credits and its transfer within the Keauhou Resort area.

Keauhou Development Water Master Plan
Document major components of the existing system as currently operated, obtain updated information relative to DWS regional water system map, gain an understanding of the existing system general operation and obtain details of how the existing system is operated, prepare a North Kona Water System map along with water budget, prepare a Water System Facilities Master Plan for the potable water system, hydraulic model based on the project demand required and development phasing, and prepare a Water Master Plan outlining the potable water system infrastructure improvements.

SCOTT A. KUNIOKA, P.E.

PROJECT MANAGER

1100 Alakea Street #1800
Honolulu, HI 96813

(808) 836-1900 ext. 684

sak@akinaka.com

www.akinaka.com

EXPERIENCE
Akinaka & Associates, Ltd.
Project Manager
2017 - Present

Bowers & Kubota Consulting
Project Manager
2013 - 2017

Shimabukuro, Endo & Yoshizaki, Inc.
Project Manager
2000 - 2013

Wilson Okamoto & Associates
Project Manager
1988 - 2000

REGISTRATIONS
State of Hawaii, #7257
Professional Engineer

EDUCATION
University of Hawaii at Manoa
1986, B.S.
Civil Engineering

QUALIFICATIONS & TRAINING
Maritime Security Awareness Training (MARSEC)

Transportation Worker Identification Credential (TWIC)

Scott has over 34 years of experience in civil engineering. He is responsible for project management, project oversight, scheduling, business development, conceptual design, quality control and proposal writing.

PROJECT EXPERIENCE

Kulani Correctional Facility Water System
Research existing system, field verify facility, its structures and their uses, inventory and assess the existing water system and it's condition, obtain and compile existing water system usage and trucked water data, estimate existing domestic and non-potable water and fire protection requirements and demands which will be used to calibrate existing actual usage with existing services and population count, and investigate and provide recommendations to repair a suspected leak within the existing distribution system.

North Kohala Water System Improvements
To provide planning, design and construction services regarding the North Kohala Water System. The project involved an environmental assessment, and design plans, specifications and cost estimate, and obtaining the necessary permits for an exploratory well in the Kohala area that could potentially provide water for agricultural use. If the exploratory well proves to be productive, it will be converted into a production well that will in incorporated into the Hawaii County Department of Water Supply water system in the Kohala area.

Waimea River Diversions
Prepare conceptual designs to monitor stream and ditch flows and modify stream diversions as required at the Koaie and Waiahulu streams, and the Waimea Tailrace (release structure) downstream of the Mauka Hydroelectric Plant. Monitoring concepts provided in two options. Option 1 should be real time recording and real time delivery and option 2 should be real time recording and real time delivery on an hourly basis.

Kahului Airport MBR Scalping
One airport-wide wastewater scalping plant to extract wastewater from the sewer system and produce R-1 water for the end users. Produce grading, erosion and sediment control during construction activities, coordinate with HDOT on locations for laydown and staging areas, removal and replacement of existing asphalt, trenching for underground piping and surface restoration. Two existing gravity sewer mains shall be connected to a new manhole installed upstream of the existing Sanitary Manhole 2 with two submersible wastewater pumps to feed wastewater from the collection system to the scalping plant for treatment.

Queen Emma Land Company Water Study
Inventory previous work and further research previously identified water sources. Determine how much water can be obtained from sources on and off the QELC property, determine the projected water needs for the planned development and develop a water strategy which included identifying all options for water sources and the associated costs. Project also involved the evaluation of existing wells including review of CWRM regional well data, video documentation, water-quality sample collection, and water-quality testing parameters.

GAVIN M. GANAL, P.E.

PROJECT ENGINEER

1100 Alakea Street #1800
Honolulu, HI 96813

(808) 836-1900 ext. 664

gmg@akinaka.com

www.akinaka.com

EXPERIENCE
Akinaka & Associates, Ltd.
Project Engineer
2011 - Present

Civil Engineer
2006 - 2011

Intern
2000 - 2005

REGISTRATIONS
State of Hawaii, #14527
Professional Engineer

EDUCATION
University of Hawaii at Manoa
2005, B.S.
Civil Engineering

Gavin assists in the technical design of projects in addition to the production of reports, exhibits, permits and construction plans, specifications and estimates.

PROJECT EXPERIENCE

Galbraith Estate Reservoirs

Design of two reservoirs (3.0MG and 10.0MG) as in-ground, lined reservoirs to serve agricultural purposes. The reservoir design was limited to at-grade and below-grade grading, reservoir lining and capacity calculations. During the construction, the firm prepared construction contract documents for bidding, including construction plans, specifications and quantity take-offs, cost estimates and bidder's proposal schedule.

Puako Waterline Replacement

This project involved the design of new waterline along Puako on the island of Hawaii. Improvements also included an Archaeological Monitoring Plan, coordination with DWS, the replacement of approximately 10,000 linear feet of waterline with external corrosion protection, acquiring the necessary permits (NPDES and SHPD) and the development of plans, specifications and cost estimates.

Pua Peterson Sewer Rehabilitation

Planning and design services for the Pua Peterson Sewer Rehabilitation. Project involved the design of 3,800 linear feet of 8", 10", 12" & 16" PVC sewer main, inspection of 20 manholes, and design of CIPP lining. The reports and permits involved included Historic Site Review, Variation from Pollution Controls, Street Usage Permit, Permit to Discharge Effluent, Grubbing, Grading & Stockpiling Permit and Permit to Excavate in
Public Right of Way.

Water/Wastewater Due Diligence for the Acquisition of the Mauna Lani Resorts & Properties

To review the current potable and non-potable water systems; engineering design and reports, provide analysis of system and possible opportunities for water system growth and expansion. Project involved the determination if there will be enough potable water available to the properties and facilities in Mauna Lani Resort. In order to do that two types of potable water was measures: 1) the water use of existing properties and facilities and 2) potential water use of currently unbuilt properties. In addition, the project involved the evaluation of whether or not the existing wastewater treatment plant would be able to accommodate future flows from the currently unbuilt properties and options for disposal of the additional wastewater effluent.

W. ROY HARDY, P.E.

SENIOR PROJECT MANAGER

1100 Alakea Street #1800
Honolulu, HI 96813

(808) 836-1900 ext. 656

wrh@akinaka.com

www.akinaka.com

EXPERIENCE
Akinaka & Associates, Ltd.
Senior Project Manager
2021 - Present

State of Hawaii
Commission on Water
Resource Management
Ground Water Hydrologic
Program Manager
1988 to 2021

REGISTRATIONS
State of Hawaii, #7548
Professional Engineer

EDUCATION
Santa Clara University
1986, B.S.
Civil Engineering

University of Hawaii at Manoa
1987, M.S.
Civil Engineering
Water Resources

Roy has over 33 years of experience in civil engineering specializing in water resource engineering and management for the Commission on Water Resource Management. He was responsible for protecting ground waters of the State of Hawaii through the establishment of sustainable yields, developing the Hawaii Well Construction and Pump Installation Standards, implementing regulatory well construction, pump installation, and ground water use permitting, and organizing data reporting for production and long-term monitoring wells in the State. He is responsible for project engineering details specializing in water resource source, capacity, and distribution.

PROJECT EXPERIENCE

Kaanapali Land Management - Irrigation System
Reviewing the current irrigation systems and provide an overall evaluation of the system infrastructure based on available information from KLM. Assist KLM in developing strategies related to CWRM IIFS for Honokowai Stream, Honokohau Stream and Honokohao Ditch. Review of irrigation needs analysis and recommend strategy for developing irrigation systems to support future needs, creating a wastewater reuse strategy, including where and when reuse should be considered.

Lalamilo 10MG Reservoir
The design and construction of a 10 million gallon reinforced concrete reservoir and related appurtenances in the Lalamilo area on the island of Hawaii. Tasks included preliminary grading and site layout plan, working with the Department of the Army regarding UXOs, geotechnical report, provide an energy analysis/report for the Lalamilo System with the added storage capacity, securing all necessary approvals and permits, assistance in the bidding phase and limited construction management services including review of RFIs and submittals, and the preparation of as-built plans.

Mahanalua Nui Water System
Installation and/or upgrade of treatment facilities, storage facilities, pump stations and transmission and distribution mains. It also involved the installation or security at drinking water systems, such as fencing, lighting, motion detectors and/or cameras, replacement of water meters and interconnection of the water system with other public water systems.

Miki Basin 200 Acre Industrial Park
Pulama Lanai is planning to rezone approximately 200 acres of agricultural zoned lands to industrial land use in anticipation of developing an energy and other uses park. Tasks included identifying water source capacity, calculating future water and wastewater demand based on anticipated lot usage, identifying offsite improvements required to service the development, preparing maps of the existing and proposed water system.

Queen Emma Land Company Water Study
Inventory previous work and further research previously identified water sources. Determine how much water can be obtained from sources on and off the QELC property, determine the projected water needs for the planned development and develop a water strategy which included identifying all options for water sources and the associated costs. Project also involved the evaluation of existing wells including review of CWRM regional well data, video documentation, water-quality sample collection, and water-quality testing parameters.

KEVIN J. MEAGHER, E.I.T.

JUNIOR ENGINEER

1100 Alakea Street #1800
Honolulu, HI 96813

(808) 836-1900 ext. 652

kjm@akinaka.com

www.akinaka.com

EXPERIENCE
Akinaka & Associates, Ltd.
Junior Engineer
December 2020 to Present

Integrity Municipal
Systems LLC
Applications Engineer
2017 to 2019

EDUCATION
University of California,
Los Angeles
2016, Bachelors of Science
Chemical Engineering

As a Junior Engineer, Kevin is responsible for the production of various reports, exhibits, plans and AutoCAD files.

PROJECT EXPERIENCE

Kahului Airport MBR Scalping

One airport-wide wastewater scalping plant to extract wastewater from the sewer system and produce R-1 water for the end users. Produce grading, erosion and sediment control during construction activities, coordinate with HDOT on locations for laydown and staging areas, removal and replacement of existing asphalt, trenching for underground piping and surface restoration. Two existing gravity sewer mains shall be connected to a new manhole installed upstream of the existing Sanitary Manhole 2 with two submersible wastewater pumps to feed wastewater from the collection system to the scalping plant for treatment.

Kanalani Street Extension

Construction of a new roadway that would allow for the development of a 40-acre land parcel. Sewer, water and fire hydrants constructed as part of the new roadway, design of a two-lane roadway with traffic in both directions, installation of catch basin filters and inlet along with installation of waterline and fire protection.

1234 Matlock Avenue

Project involved construction of site improvements including grading and water, sewer and drainage related infrastructure. Drainage design will include the design of erosion control measures during construction activities. In addition, project involved the design of water quality BMPs, coordination with DPP for plan review and approval and the preparation of a Storm Water Quality Report.

Waimea River Diversions

Prepare conceptual designs to monitor stream and ditch flows and modify stream diversions as required at the Koaie and Waiahulu streams, and the Waimea Tailrace (release structure) downstream of the Mauka Hydroelectric Plant. Monitoring concepts provided in two options. Option 1 should be real time recording and real time delivery and option 2 should be real time recording and real time delivery on an hourly basis.

BWS Kalawahine 180' Reservoir

Design of a reinforced concrete reservoir, instrument house, 24" transmission main, irrigation, access road improvements, retaining rock wall, installation of new curb ramps and modifications of existing curb ramps. The waterline design crossed over a stream, which lead to horizontal drilling.

BRYSON T. TAMAYE

JUNIOR ENGINEER

1100 Alakea Street #1800
Honolulu, HI 96813

(808) 836-1900 ext. 672

btt@akinaka.com

www.akinaka.com

EXPERIENCE

Akinaka & Associates, Ltd.
Junior Engineer
May 2022 to Present

R.M. Towill
Student Intern
May 2021 to August 2021

Ace Auto Glass
Installer
May 2019 to August 2020

EDUCATION

University of Portland
2022, Bachelors of Science
Civil Engineering

QUALIFICATIONS & TRAINING

ESCP Coordinator Certification
Fall Protection Certified Person

As a Junior Engineer, Bryson is responsible for the production of various reports, exhibits, plans and AutoCAD files.

PROJECT EXPERIENCE

Lalamilo 10 MG Reservoir

Construction of a 10-million gallon reinforced concrete reservoir and related appurtenances including necessary site improvements, topographic survey, preliminary grading and site layout plan, geotechnical report for the purpose of constructing a 1o MG reinforced concrete reservoir, energy analysis/report for the Lalamilo System with the added storage capacity, conducting an environmental assessment for the project in accordance with the requirements of Chapter 343, HRS and Title 11, Chapter 200, HAR and other related requirements, and review of requests for substitutions, requests for information, change order of proposals, etc.

North Kohala Water System Improvements

To provide planning, design and construction services regarding the North Kohala Water System. The project involved an environmental assessment, and design plans, specifications and cost estimate, and obtaining the necessary permits for an exploratory well in the Kohala area that could potentially provide water for agricultural use. If the exploratory well proves to be productive, it will be converted into a production well that will in incorporated into the Hawaii County Department of Water Supply water system in the Kohala area.

Deep Monitor Wells

Goal of the project is to the stop the flow of freshwater up into the seawater zone in the Keopu Deep Monitoring Well (DMW). The project involved the repair/renovation of the Keopu DMW by installing a well casing and screen in the deep freshwater zone, and sealing the well boring above the screen. In addition, repair and deepen up to three additional existing/unused monitoring wells, explore the extent of the deep freshwater resource to the north and south of the two wells and expand the Commission on Water Resource Management's (CWRM) network of usable deep monitoring wells in the Kona/Keauhou Aquifer area.

BWS Kalawahine 180' Reservoir

Design of a reinforced concrete reservoir, instrument house, 24" transmission main, 8" distribution main, irrigation, access road improvements, retaining rock wall, installation of new curb ramps, modification of existing curb ramps. There were a lot of existing utilities in a highly travelled corridor. The waterline needed to be bypassed to maintain service during construction and the utilities could not meet the current clearances. In addition, the waterline crossed over a stream, which lead to horizontal drilling. Akinaka & Associates, Ltd. negotiated with the city agencies to lessen the clearances required in between the waterline and sewer line. In addition, concrete jackets were also placed on the waterline to provide protection.