

United States Department of the Interior
National Park Service

National Register of Historic Places Registration Form

This form is for use in nominating or requesting determinations for individual properties and districts. See instructions in National Register Bulletin, *How to Complete the National Register of Historic Places Registration Form*. If any item does not apply to the property being documented, enter "N/A" for "not applicable." For functions, architectural classification, materials, and areas of significance, enter only categories and subcategories from the instructions.

1. Name of Property

Historic name: Otsubo Monument Works

Other names/site number: TMK 2-7-09: 034

Name of related multiple property listing:

N/A

(Enter "N/A" if property is not part of a multiple property listing)

N/A

2. Location

Street & number: 944 Coolidge Street

City or town: Honolulu State: Hawai'i County: Honolulu

Not For Publication: ☐

Vicinity: ☐

3. State/Federal Agency Certification

As the designated authority under the National Historic Preservation Act, as amended,

I hereby certify that this ___ nomination ___ request for determination of eligibility meets the documentation standards for registering properties in the National Register of Historic Places and meets the procedural and professional requirements set forth in 36 CFR Part 60.

In my opinion, the property ___ meets ___ does not meet the National Register Criteria. I recommend that this property be considered significant at the following level(s) of significance:

___ national ___ statewide x local

Applicable National Register Criteria:

x A ___ B ___ C ___ D

Signature of certifying official/Title:

Date

State or Federal agency/bureau or Tribal Government

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In my opinion, the property ___ meets ___ does not meet the National Register criteria.

Signature of commenting official:

Date

Title :

State or Federal agency/bureau
or Tribal Government

4. National Park Service Certification

I hereby certify that this property is:

- ___ entered in the National Register
___ determined eligible for the National Register
___ determined not eligible for the National Register
___ removed from the National Register
___ other (explain:) _____

Signature of the Keeper

Date of Action

5. Classification

Ownership of Property

(Check as many boxes as apply.)

Private:

☒

Public – Local

☐

Public – State

☐

Public – Federal

☐

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Category of Property

(Check only **one** box.)

Building(s) ☐
District ☐
Site ☒
Structure ☐
Object ☐

Number of Resources within Property

(Do not include previously listed resources in the count)

Contributing	Noncontributing	
<u> </u>	<u> </u>	buildings
<u> 1 </u>	<u> </u>	sites
<u> 1 </u>	<u> </u>	structures (1 within site)
<u> 4 </u>	<u> </u>	objects (4 within site)
<u> 6 </u>	<u> 0 </u>	Total

Number of contributing resources previously listed in the National Register 0

6. Function or Use

Historic Functions

(Enter categories from instructions.)

INDUSTRY/PROCESSING/manufacturing facility

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Current Functions

(Enter categories from instructions.)

OTHER/no visible structure

7. Description

Architectural Classification

(Enter categories from instructions.)

n/a

Materials: (enter categories from instructions.)

Principal exterior materials of the property: The Otsubo Monument Works site has 1 pavement structure which incorporates 4 white marble headstones in a poured-in-place concrete grid-like-wall pavement structure. No visible historical exterior materials on the property.

Narrative Description

(Describe the historic and current physical appearance and condition of the property. Describe contributing and noncontributing resources if applicable. Begin with a **summary paragraph** that briefly describes the general characteristics of the property, such as its location, type, style, method of construction, setting, size, and significant features. Indicate whether the property has historic integrity.)

Summary Paragraph

Mō'ili'ili (Honolulu, Hawai'i) Directional Terms:

makai (downslope, toward the ocean, roughly to the south)

mauka (uphill, toward the mountains, roughly to the north)

ʻEwa side (roughly to the west)

Diamond Head side (roughly to the east)

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This paragraph describes the general characteristics of the property, such as its location, type, style, method of construction, setting, size, and significant features. Indicate whether the property has historic integrity.)

This property meets Criteria Consideration A for the Otsubo Monument Works as a resource significant under the theme in the history of industry/manufacturing facility. The period of significance begins with the purchase of the property 1923-1924 to the death of Sentaro Otsubo in 1952—as an important location for the manufacture of stone carvings. This nomination does not address the architectural features on this property, rather it addresses the early-mid 20th century pavement structure and the objects/artifacts comprising this pavement structure.

Criterion A: History/Events is supported by analysis of the site, the Otsubo Monument Works business the property itself, the property transfers, and the purchase by Sentaro Otsubo. The property continues to be owned by the Otsubo-Natsuyama family to this day. The property has historic integrity though no historical remains can be seen on the site today. This setting constitutes the historical adaptive reuse of even-older objects/artifacts (4 marble headstones) within its poured-in-place concrete grid-like wall pavement structure.

Inadvertent finds in a trench and pit approximately 7 feet by 17 feet were excavated while undertaken to install a grease trap and sewer hookup on the site, the Mō'ili'ili 944 Coolidge Street Property, in March, 2017. Discovered in this excavation was a pavement structure comprised of four marble headstones, the objects/artifacts (inadvertent archeological-finds), and a poured-in-place supporting grid-like wall structure. The property is currently owned by Yakue Natsuyama Irrevocable Trust (Yakue Natsuyama, daughter of Sentaro Otsubo, founder of the Otsubo Monument Works; Harriet Natsuyama, granddaughter of Sentaro Otsubo, trustee). The property is 0.0761 acres (20 x 28.28 x 65 x 40 x 85 feet) and is zoned commercial.

Susan Lebo, State Historic Preservation Division head archeologist, and Stephanie Hacker, archeologist, came to the site to determine if there were human remains (*iwi*). They determined that these headstones were adaptive reuses and were not part of a grave site. At that time, Susan Lebo gave Laura Ruby, local history writer and editor of the book *Mō'ili'ili—The Life of a Community* the authorization to research and create this study for SHPD.

There are no significant features remaining of the 1920s' original house and stone monument workshop. A new two-story building was erected in 1963 by Yakue (Otsubo daughter) Natsuyama and Kenjiro Natsuyama. An approximately 4-6" concrete slab was poured covering the entire property. Then the concrete and CMU foundation and walls were built atop of the slab.

The pavement structure has historic integrity through this photographic and text record and the relocation of the two Hawaiian marble headstones in the Mō'ili'ili Japanese Cemetery.

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Narrative Description

The 944 Coolidge Street excavated site contains a portion of a pavement comprised of adaptive-reused de-sanctified headstones. (The term "structure" is used to distinguish this de-sanctified headstone pavement from buildings: its functional construction was made for purposes other than creating human shelter.) This structure comprised of objects/artifacts within the site has historical cultural significance.

This Mō'ili'ili 944 Coolidge Street site is the location of a significant historic stone carving occupation which included a structure of a de-sanctified headstone pavement. The stone carving workshop was in continuous use from 1924 (Sentaro Otsubo's purchase of the property) until 1952 (Otsubo's death). The family residence, also on the property, remained until 1963 when the current two-story commercial and residential building was constructed. Though the historic buildings have vanished and a portion of the pavement resealed beneath a concrete slab, this pavement structure possesses historic, cultural, and archeological value regardless of any visible structure. The two extricated Hawaiian headstones have been refurbished and installed at their new home at the Mō'ili'ili Japanese Cemetery just a few blocks away (.42 miles).



ALL PHOTOGRAPHS, UNLESS OTHERWISE STATED: LAURA RUBY AND HARRIET NATSUYAMA

This photograph of the two Hawaiian headstones in-situ positioned face down, shows the 1/4 inch cement topping on the pavement. The excavator inadvertently broke the cement topping that had previously held the structure together. (The poured-in-place "foundation" structure is parallel and underneath the tape measure.) The excavation was approximately 7 feet by 17 feet.

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WIKIPEDIA.ORG CROMER_GRAVEYARD1

This Google photograph of pavement shows the practice of headstone adaptive reuse.

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This is a standard military headstone used for many years as a stepping stone for (perhaps) the parsonage for Ma'ema'e Apana Chapel (Kaumakapili Apana Church). This is an example of headstone adaptive reuse.

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It is not known if there were additional headstones on the Otsubo property. The contractor digging the pit for the grease trap would not authorize further hand-tool excavation as it would compromise the adjacent concrete slab.

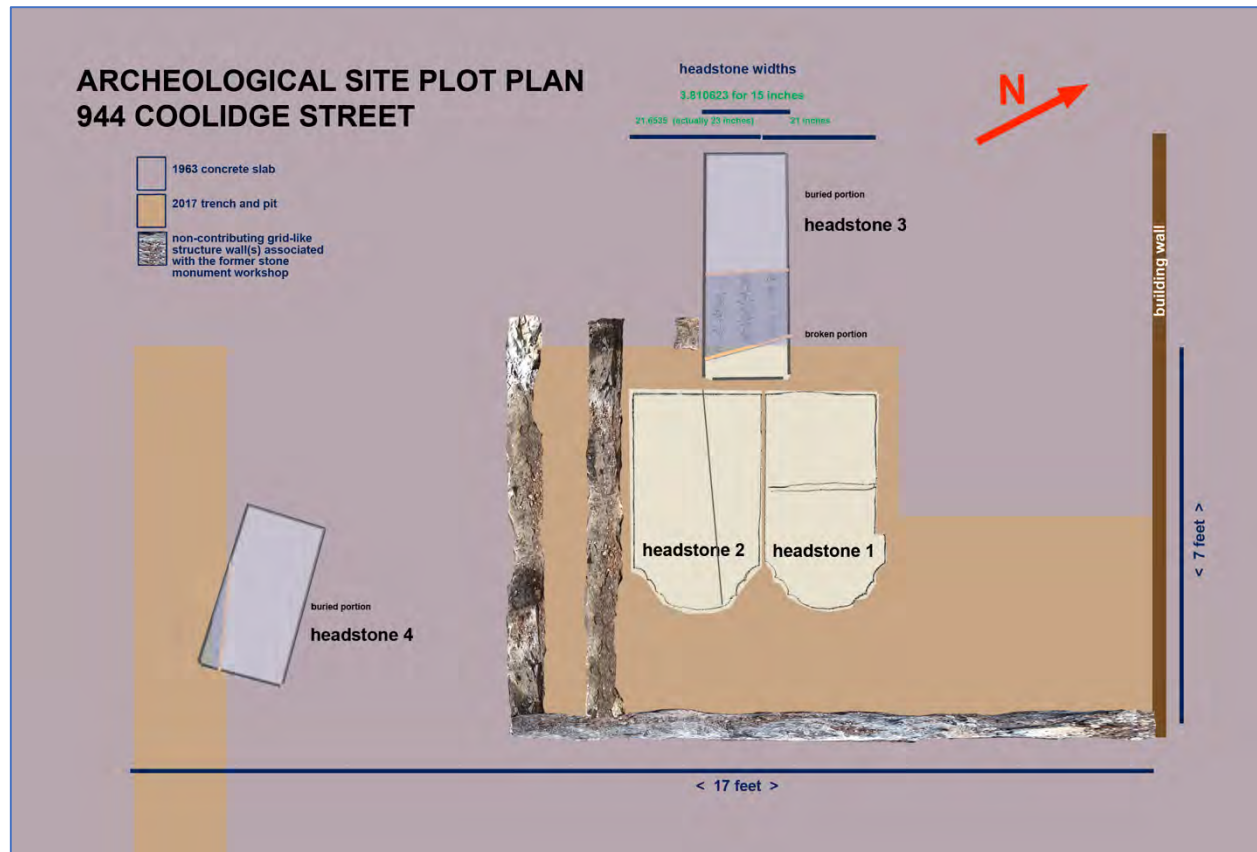


IN-SITU SKETCH: LAURA RUBY

Plot plan with the site structure in situ.

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IN-SITU SKETCH: LAURA RUBY, STEPHANIE HACKER

Detail of excavated site with structure.

The headstones uncovered are:

1-A. Ellen P. Kamakau

2-N. Kupoikai

The partially uncovered hand-excavated headstones:

3-Matajuro Arakawa

4-unknown blank

These stones and their histories are further described in Section 8, "The Hawaiian Artifacts," 54 and "People Associated with the Artifacts and 944 Coolidge Street Property," p. 80.

There were no structures on the property prior to 1924. The environmental setting was very uneven with some soil and many areas of karst (coral/limestone and discontinuous solution caverns; *pa'akea*) protruding above the surface of the thin soil. Additionally, there were many kiawe trees with root structures throughout the property. Otsubo cleared the trees and laid down the pavement for foot-traffic safety and ease. (Please see images of the kiawe trees, p. 23, 24, and 47, and karst 35 and 37.)

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(For specific information on soil strata and analysis of the historical natural soil and karst features please see Section 8 "Lay of the Land," p. 50.)

Business and Fabrication Setting

The Otsubo Monument Works advertised "Up-to-Date Monument Manufacturers." The monument work area was behind the house and consisted of storage of stones, sand (for making concrete), equipment, a shed, and a blacksmith's forge. All of Otsubo's work was done by hand. He picked up stones in a cart and moved them using rolling pipes to the work location. He laid out the design on the stone using pencil and paper. He carved with iron chisels. In the forge fueled by kiawe charcoal, he sharpened his chisels using hammer and anvil and dipped the glowing chisel in water to quench the great heat. Thus, Otsubo, the stone carver, worked with the four physical elements: earth, water, fire, and air. One could add that the fifth element, spirit, also played a major role, for his work is endowed with an ineffable grace. (Harriet Natsuyama and "Carved in Stone," 2009; Interview 2017)

Otsubo carved hundreds of monuments now in cemeteries such as the Mō'ili'ili Japanese Cemetery. And, he is remembered as the carver of the Koko Head Bamboo Ridge Ojizo Fishing Monument, *Umi Mamori Jizo Zon* erected in 1940. This was a replacement monument as the previous two had been vandalized. So, Otsubo fully protected the Jizo image surrounded by the rough-hewn native stone. (Please see Section 8 "People Associated with the Artifacts and the 944 Coolidge Street Property," p.91.)



OTSUBO-NATSUYAMA FAMILY COLLECTION

Installation of Jizo monument by Sentaro Otsubo on June 23, 1940. The bas-relief of Earth Womb Bodhisattva is carved into natural lava rock, holding *shakujo* (staff) and *mani* (jewel). The inscription reads: *Umi mamori Jizo Zon*, Jizo Protector of the Sea. Otsubo is in the bottom row, third from right.

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GENERAL REFRIGERATION CO.'S LIPMAN
BISHOP & BASCOCK COMPANY'S RED CROSS SODA FOUNTAINS AUTOMATIC
THE HURD-POHLMANN CO., LTD.
TEL. 6123 K. OF P. BLDG., BISHOP AT UNION P. O. BOX 99
CITY AND COUNTY OF HONOLULU DIRECTORY (1931-32) 397

OTA
" Masao lab h 932 Kahaloa lane
" Masujiro carp h rear 2726 Waiālae av
" Matsuichi waiter Kalia Hosp
" Rikichi lab h 1406 10th av
" Rikizo plumber h rear 2029 Booth rd
" Satoru welder h 610 Pohukaina
" Shintaro painter h 2223f S Beretania
" Shintaro stevedore h 1921 Kahala lane
" Shouchi painter h rear 1434 Elm
" Shuichi peddler h 1511 Chung Hoon lane
" Tada (wid Hachiro) restaurant 1318 Liliha
" Tadao painter h 2710 Nakoookoo
" Taichi ydmn h 449 Hobron lane
" Takeo lab r rear 2726 Waiālae av
" Tokuhel plor opr WACo Waiālaa
" Tutomu h rear 79 N School
" Yutaka slsmn Sumida & Co h 535 Koula
Otaguro Hikotaro painter SOCo h 529 Kaiwila
" Minoru carp h 558 Lakimela lane
" Motomu carp Y Ando r Kunawai lane
" Ryozo lab h 1546 Kamehameha IV rd
Otake Hatsutaro fishermn h 424 Koula
" Nakaichi hipr HDCo h rear 144 N Kukui
" Sadaichi lab h rear 144 N Kukui
" Sadami clk Sumitomo Bank r rear 144 N Kukui
" Sadao truck opr r rear 144 N Kukui
" Takuso luna HPCo
OTAKE TATSUJIRO General Merchandise Dry Goods and Groceries Waiālaa Tel 2 Blue 783 PO Box 145
" Toshie auto opr 3001 Nuuanu av
" Toshio clk R M Clutterbuck r 424 Koula
" Wakaichi ydmn Hon Academy of Arts
" Yukio auto opr r rear 4234 Waiālae av
" Zenichi slsmn State Bldg & Loan Assn h Moanalua
Otani see also Otani
" Florence T clk Otani & Co r rear 411 Koula
OTANI GEORGE Insurance Real Estate and General Business Agent Office with Home Insurance Co 129 S King Tel 6025 h 1036 Kamehameha IV rd
" K baker Baileys Groceries
" Kasuyo r 1711 Kalakaua av
OTANI M & CO Matsujiro Otani Mgr Wholesale and Retail Fresh Fish Dealers Fish Cakes and Poultry 181 Ala Market Tel 6125 PO Box 1378 Branch 47 King Market
" Matsujiro mgr Otani & Co h rear 411 Koula
" Natsue (wid Tokumatsu) h 29d Hialoa
" Noboru gen store 1206 Liliha
" Sadao ydmn 1627 Kewalo
" Sakuso h rear 309 Halekauwila
" Shizue emp H I Kurisaki r 29d Hialoa
OTANI USANOSUKE Treas M Otani & Co Real Estate h 1508d Liliha Tel 58647
" Yaichi carp h 918 Thompson
" Yoshi (wid Ichiro) h 1518e Hiram lane
" Yoshio mech Castner Garage
Otawa Tokichi gardener h 1537 Palolo av
Otaya Haruyo r 1337 Pua lane
" Takeo slsmn Fuji Furn Co h 1337 Pua lane
Otholt Carl mach WACo Waiālaa
" Gerhart mach WACo Waiālaa
" Henry tractor opr Waiālaa
" John eng WACo Waiālaa
Oto Choichi h Ala Moana opp Coral
Otoide G (Kalia Auto Repair Shop) h rear 1352 N King
Otokosawa Shosaburo h 1550 Fort
O'Toole Michl C architect QM, USA h 1412 Whitney
Otschi Asano tankmn HECo h 1485 Emma

Otsubo Arth N slsmn AF h 2651 Oahu av
" Augusta (wid Frank) h 2659 Oahu av
" Frances M with Teachers College r 2659 Oahu av
" Hedwig S Instr Teachers College r 2659 Oahu av
Otsu Geijiro ydmn 467 N Judd
" Totaru hog raiser h Oili rd
Otsubo H carp h rear 2700 East Manoa rd
OTSUBO SENTARO (Otsubo's Monument Works) r 2423 S King Tel 91540
" T cook r rear 2700 East Manoa rd
" Tokichi ydmn h rear 1537 Palolo av
OTSUBO'S MONUMENT WORKS (Sentaro Otsubo) Up-to-Date Monument Manufacturers 2423 S King Tel 91540
Otsuka Hachiro carp WACo Waiālaa
" Isami clk HPCo r 1254 Peterson lane
" K lab SOCo r 926 11th av
" Masuda farmer h 10th av Palolo valley
" Moikichi lab h rear 3235 Kaimuki av
" Sataro h 1254 Peterson lane
" Susumu auto opr h Kapaakea lane
Otsuki Kazuo carp h 3456 Maunalei av
Otsuyama Tsuguchi emp Kalia Hosp
Ottersen Otter H pilot USN r Watertown
Ottmann Donald R Rev h 3639 Sierra dr
Otto Father in chg Catholic Mission Aiea
" Lucille dept supvr Palama Settlement r 2011e Lanikuli dr
Ottoy M cook Royal Hawn Hotel
Ouchi Akira ydmn h 918 Waiālaa rd
" Denzaburo cook Sui Takata
" Gorokichi ydmn 3187 Diamond Head rd
" Hideo clk Bishop Trust Co r 1544 Kalakaua av
" Hikojiro r 1532 Kauluwela lane
" Hikoyuki slsmn Seiseido Shoten h 1532 Kauluwela lane
" Hisao carp h 3549b Keanu
" Iwao hipr HPCo Waiālaa
" Kaizo painter h 3115 Mooheau av
" Kenichi truck opr Hoffschlaeger Co r 1233 Peterson lane
" Megumi mech Waiālaa Garage Co
" Shigeru slsmn Bishop Ins Agency h 2623 Nakoookoo
" Tamayo (wid Shigeo) h 1554 Kalakaua av
" Tenju fishermn r 304 N Kukui
" Toshio printer Nippu Jiji h Punch-bowl Crater rd
" Umeyo clk Social Service Bureau r 3549b Keanu
Ouderirk Wm R US Comnr and lawyer 208 Hawn Trust bldg h 2370 University av
Oue Jingoro cook r 410d Lelele lane
" Taichi truck opr h 1331 7th av
Oumae Hidesuke florist h Kapaakea dist
" Mitsuru r Hidesuke Oumae
" Satoko r Hidesuke Oumae
" Shigeo (Oumae's Flower Shop) h Kapaakea dist
OUMAE'S FLOWER SHOP (Shigeo Oumae) Fresh Cut Flowers 1485 S King Tel 3904
OUMAYE USUKE Drugs Toilet Articles and Novelties 624 S Queen Tel 3561
Oumi Kenichi clk PO Waiālaa
" Yoshimatsu gen store Haleiwa p o Waiālaa
Our Lady of the Mount Chapel Father Edmund pastor Monte cor Nihi
Ouren Christine nurse Leahi Home
Ours Bertha V tchr DPI h 2139 Kalia rd
OUTRIGGER CANOE CLUB W N Haglund Sec Selma Wareham Asst Sec 2329 Kalakaua av Tel 91542
Ouye Ryosuke slsmn Real Silk Hosiery Mills
Overby Jas S lab r 1 makai 3220 Esther
" Raymond USA h 2335b Oili lane
Overend Cecil r 2711 Nuuanu av
" Nellie lawyer r 2711 Nuuanu av
Overman Blanche Mrs sten Bishop Trust Co h 4714b Kahala av

WHAT'S YOUR LINE?
IF
Your Card Were Here Everybody WOULD KNOW

YOU CAN'T COVER
the World with a postage stamp, nor can you cover the BUYING PUBLIC without proper representation in your CITY DIRECTORY

Otsubo advertised his business site from 1924 until 1952. This is an example from the 1931 Honolulu Hawai'i City Directory, p. 397.

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Directory of Honolulu 1924, p.762.



Honolulu, Hawai'i City Directory, 1947 p. 1205.

Otsubo never had a vehicle so he was reliant on transit services or salvage/junk dealers to bring the stones to be carved from the quarry or the docks, and it is likely that Otsubo had salvage/junk dealers such as the ones above transport the desanctified stones to Otsubo's workshop. There is no history/provenance linking Otsubo to the junk dealers but there is substantial proof that before the junk dealers came into possession of the Hawaiian headstones they were found broken and in disrepair in the Roman Catholic Cemetery, either by family members or by a church or cemetery custodian and were subsequently removed from the cemetery. (Please see the following nomination pages for evidence to support this hypothesis.) The same would be true for the Arakawa stone due to breakage was removed from the Makiki Cemetery and subsequently a new almost-exact duplicate stone was installed to replace the earlier one. The blank headstone discovered would also have been acquired this way. (Please see p. 59 and 89-91.) for further examination of the stones and their origins and locations.) The poured-in-place grid-like wall structure was meant as a stabilizing structure for the headstone pavement.

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The 1–A. Ellen P. Kamakau and 2–N. Kempoikai headstones in situ in the Mō‘ili‘ili Japanese Cemetery, 2020.

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1. Statement of Significance

Applicable National Register Criteria

(Mark "x" in one or more boxes for the criteria qualifying the property for National Register listing.)

- ☒ A. Property is associated with events that have made a significant contribution to the broad patterns of our history.
- ☐ B. Property is associated with the lives of persons significant in our past.
- ☐ C. Property embodies the distinctive characteristics of a type, period, or method of construction or represents the work of a master, or possesses high artistic values, or represents a significant and distinguishable entity whose components lack individual distinction.
- ☐ D. Property has yielded, or is likely to yield, information important in prehistory or history.

Criteria Considerations

(Mark "x" in all the boxes that apply.)

- ☐ A. Owned by a religious institution or used for religious purposes
- ☐ B. Removed from its original location
- ☐ C. A birthplace or grave
- ☐ D. A cemetery
- ☐ E. A reconstructed building, object, or structure
- ☐ F. A commemorative property
- ☐ G. Less than 50 years old or achieving significance within the past 50 years

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Areas of Significance

(Enter categories from instructions.)

INDUSTRY/PROCESSING/manufacturing facility/stone carving workshop
ARCHEOLOGY/HISTORIC–NON-ABORIGINAL/INDUSTRY

Period of Significance

1923-24 (Sentaro Otsubo purchase date)–1952 (Sentaro Otsubo death date)

Significant Dates

1923-4–Sentaro Otsubo purchased property at 944 Coolidge Street, Honolulu, HI
1952–Sentaro Otsubo died

Significant Person

(Complete only if Criterion B is marked above.)

N/A

Cultural Affiliation

N/A

Architect/Builder

N/A

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Statement of Significance Summary Paragraph (Provide a summary paragraph that includes level of significance, applicable criteria, justification for the period of significance, and any applicable criteria considerations.)

The Otsubo Monument Works nomination is significant at the local level under the theme history of “INDUSTRY/PROCESSING/manufacturing facility/stone carving workshop” associated with “the commercial development of Mō‘ili‘ili Town.

This document presents the historic context of the Mō‘ili‘ili 944 Coolidge Street property: the property itself, the property transfers, the purchase by Sentaro Otsubo, the pavement structure, and the individual structures/artifacts making up the pavement found on the site. The property continues to be owned by the Otsubo-Natsuyama family to this day. The property has historic integrity though no historical remains can be seen on the site today. This setting constitutes an historical property, and the historical adaptive reuse of even-older artifacts.

Industry and Commerce

The property does not have significant pre-1924 use or settlement. This is supported by soil analysis: limited poor agricultural soil. The evidence comes from the approximately 7 feet by 17 feet excavation pit. The analysis indicates that the property was not agriculturally significant, and likely had little or no human use prior to Otsubo’s purchase.

During the 1920s, 30s, and 40s Mō‘ili‘ili Town’s population grew. By 1941, the number of first-generation Japanese Issei and their second-generation Nisei children were significantly in the majority. The businesses established flourished, the Mō‘ili‘ili Japanese School thrived, and the Buddhist temple parishioners were many—and the Issei died in their new-found American land and wished an engraved attachment to their birth land requesting their prefectures and villages be carved on their headstones. There were at least two stone monument carving businesses in Mō‘ili‘ili at that time.

The below-grade excavated pavement structure made up of objects were constructed sometime after 1924 by Otsubo. These were necessary to support his stone carving business. The grid-like structure is a below-grade, poured-in-place, unfinished, load-bearing wall constructed by Otsubo to support his heavy workshop equipment and stones. This was to reinforce the karst (from the possibility of a cave-in/collapse)—this structure while historic is non-contributing. This non-contributing structure appears to have been constructed by shoveling 6- 8 inch trenches and then filling them with concrete.

The pavement structure was then overlaid with a pavement comprised of at least four de-sanctified headstones. Three of these four headstones will be addressed as contributing objects (the fourth stone is a blank). These are stones that date from the 1870-80s and that were arranged in place by Otsubo. Three of these exposed stones have meaningful historic contexts of their

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own. Each has historic characteristics of stone type, hand-carving method, pedestal-mounting, and language and ornamentation specific to their time and place.

Applicable Criteria for Research

Of the many research methodologies available for research, the most conducive to producing results were:

- 1. Rectifying contemporary map overlays
- 2. Site-based Landscape Approach of soil strata (informal coring samples) and soil analysis
- 3. Documentary analysis from the Bureau of Conveyances (including deed research), Census data, business directories, Land Commission Awards, and DAGS Land Survey Division Map Collection and University of Hawai'i Hamilton Library Map Collection
- 4. Phenomenological Approach of Visual and Tactile descriptions of the four artifacts/headstones and a Comparative Visual Taxonomical Analysis of Form (size, surface features, and pedestal mounting) with other extant headstones of the same time period
- 5. Manufacturing techniques used on the artifacts and labor involved

Other methodologies which might have produced lesser results for this document were not considered. They are: including Linguistic analysis, Lithic analysis, Radio carbon dating, Coral dating, Cyrax laser scanner (3-D analysis and modeling), and Patina age dating.

Justification of the Period of Significance begins with Sentaro Otsubo's purchase of the property in 1923-1924 and ends with his death in 1952. Under Criteria A the aspects or qualities of Location, Design, Setting, Materials, Workmanship, Feeling, and Association are of primary importance in determining the integrity of this nomination.

“Definition

The place where the historic property was constructed or the place where the historic event occurred. The combination of elements that create the form, plan, space, structure, and style of a property. The physical environment of a historic property. Setting includes elements such as topographic features, open space, viewshed, landscape, vegetation, and artificial features. The physical elements that were combined or deposited during a particular period of time and in a particular pattern or configuration to form a historic property. The physical evidence of the labor and skill of a particular culture or people during any given period in history. A property's expression of the aesthetic or historic sense of a particular period of time.” (NRB 16)

Area of Significance

Criterion A

The Otsubo Monument Works qualifies for listing under National Register Criterion A
based upon its association with events that have made a significant contribution to the broad

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patterns of our history, in particular early 20th century industrial and commercial settlement patterns in Mō'ili'ili.

The Otsubo Monument Works was an important part of the Mō'ili'ili community during the Period of Significance from 1924 to 1952. This was the period of time from Sentaro Otsubo's purchase of the 944 Coolidge Street property, his actively working/manufacturing stone monuments on the site, and his death. It is significant at the local level under Criterion A (History/Events) under the theme of an Industry/ Manufacturing Facility as a processing workshop site that created permanent stone monuments to honor, primarily Issei (first generation) and Nisei (second generation) Japanese American ancestors.

Industry/Manufacturing Facility

The property does not have significant pre-1924 use or settlement. This is supported by soil analysis: limited poor agricultural soil. The evidence comes from the approximately 7 feet by 17 feet excavation pit. The analysis indicates that the property was not agriculturally significant, and likely had little or no human use prior to Otsubo's purchase.

During the 1920s, 30s, and 40s Mō'ili'ili Town's population grew. By 1941, the number of first-generation Japanese Issei and their second-generation Nisei children were significantly in the majority. The businesses established flourished, the Mō'ili'ili Japanese School thrived, and the Buddhist temple parishioners were many—and the Issei died in their new-found American land and wished an engraved attachment to their birth land requesting their prefectures and villages be carved on their headstones. There were at least two stone monument-carving businesses in Mō'ili'ili at that time. (In 1927, Otsubo's Monument Works at 2423 S. King Street, advertised as "Up-to-date," and Hatanaka Stone Factory Monuments Iwakichi at 2604 S. King Street. *City Business Directory*)

The National Park Service over-arching goals: "The first is to state in chronological order in local and regional contexts. The second is to reconstruct past lifeways, including the ways that people made a living; the ways they used the landscape. The third is to achieve some understanding of how and why human societies have changed through time."

The below-grade excavated pavement structure within the Otsubo property was comprised of a contributing grid-like wall structure and largely made up of marble headstone objects/artifacts constructed sometime after 1924 by Otsubo. This construction was necessary to support his stone carving manufacturing business. The grid-like structure is a below-grade, poured-in-place, unfinished, load-bearing wall constructed by Otsubo to support his heavy workshop equipment and stones. This was to reinforce the karst (from the possibility of a cave-in/collapse). This structure appears to have been constructed by shoveling 6-8 inch trenches and then filling them with concrete.

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This pavement structure was comprised of at least four de-sanctified headstones/objects/artifacts. Three of these four headstones will be addressed as contributing objects (the fourth stone is a blank). These are stones that date from the 1870-80s and that were arranged in place by Otsubo. Three of these exposed stones have meaningful historic contexts of their own. Each has historic characteristics of stone type, hand-carving method, pedestal-mounting, and language and ornamentation specific to their time and place.

Today, in 2020, the two excavated Hawaiian headstones have joined other stone monuments in the nearby Mō'ili'ili Japanese Cemetery.

Conclusion

The Otsubo Monument Works site is significant as it contains a pavement structure comprised of an object/artifact assemblage of 19th century headstones created by Sentaro Otsubo for his stone carving workshop in Mō'ili'ili. It has great potential to yield information on the history and culture of early 20th century industry in the town. Also, special to this property is the existence of historical documentary and photographic evidence of the Otsubo property. Together these factors make the remains of the Otsubo Monument Works site, pavement structure, and artifacts/objects significant at the local level for the National Register under Criteria A.

Narrative Statement of Significance (Provide at least **one** paragraph for each area of significance.)

Narrative Statement of Significance (Provide at least **one** paragraph for each area of significance.)

Criterion A: History/Events

Historical Context Documentary Analysis

from the Bureau of Conveyances (including deed research), Census data, business directories, Land Commission Awards, and DAGS Land Survey Division Map Collection and University of Hawai'i Hamilton Library Map Collection

This nomination Areas of Significance (Industry) presents a body of thematically, geographically, and temporally linked information of early economic development of Mō'ili'ili town during the Period of Significance (1923-1952). Sentaro Otsubo carved grave stones largely for the Issei and Nisei generations of Japanese Americans and also monuments for the Island of O'ahu. For foot safety Otsubo created a pavement made from de-sanctified headstones so he could move his heavy stones and equipment more easily. Two of the significant inadvertent finds located in this pavement were for two notable Hawaiian individuals and one stone for the first Japanese seaman to die in Hawai'i.

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The Lay of the Land

1.

Mapping the Land

The Otsubo property lies on the “Coral Plains” in the 1884 Waikīkī map by Lyons and Wall. The property sits on an area of exposed karst (discontinuous solution caverns in ancient coral beds) with very little poor top soil at about 6-7 feet in elevation. Today (2017), the Mō‘ili‘ili karst is considered historic, but only scientists should venture inside the larger caverns. The exposed karst can still be seen in the immediate neighborhood. On the Otsubo property there was one small spring on the *mauka* portion of the property, and a hand-dug well on the ‘Ewa side of the property (used for gardening and laundering).



1901 Portion of Kapa‘akea Waikīkī, O‘ahu with Google map and red rectangle demarking the 944 Coolidge area. As seen in this map overlay and the next map with elevations the area was likely marshy or damp. Sentaro Otsubo built his residence on posts and piers, but he built the open-air workshop at ground level for ease of moving the extremely heavy carving stones, and to

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securely station his heavy equipment such as an anvil and forge, among other tools. Thus, to work on a hard, flat dry surface, Otsubo laid de-sanctified broken headstones (likely obtained from a scrap or junk dealer in town) face down, and covered them with a thin $\frac{1}{4}$ inch surface of cement for ease of walking within his workshop. (Please see pp. 59 and 61 in this document for the initial disposition of the headstones within the excavation.)

In 1923, property owner Henry Hausten undertook an alteration on his nearby/adjacent property originally owned by the Ai-McGuire family. Hausten bulldozed fill into the historical Loko Pa'akea to decrease his water- or marsh-land holdings and increase his solid-land holdings. (Chester Lao, "Mānoa Valley: Fact and Fiction." p. 20-21).



2017 Google map with red elevation overlays suggesting that the depression still remains of the former Loko Pa'akea after Henry Hausten bulldozed it, c. 1923.

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MAP: HARRY YOSHIMURA: FROM *MŌ'ILI'ILI* – *THE LIFE OF A COMMUNITY*

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OTSUBO-NATSUYAMA FAMILY COLLECTION

Entrance to the Otsubo property in May 1940 showing Boys' Day kites. View from across King Street looking *makai* to the property shows huge kiawe trees, remnants of the kiawe forest. To the right can be seen the fence of the Kumalae/Dreier Manor property.

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2.

Site-Based Landscape Approach of Soil Strata

This approach was undertaken to establish that there was no prior human industry on the site. The headstones were found in Stratum 3. This stratum was in use from the mid-1920s to 1952. In 1963 the new upper-floor residence and lower-floor commercial space was built atop an encapsulating whole-property concrete slab. Stratum 3 is approximately 12 inches below the top of the concrete slab and is about 6-10 inches thick.

Regarding the excavation at 944 Coolidge the soil analysis assessment of Strata 3 is that the soil was very high in pH factors meaning that the bases of potassium, calcium, and magnesium would yield poor growing conditions. Agriculture prior to the twentieth century did not take place in this location, nor were there Hawaiian citizens living in this particular locale, leading to the conclusion that these inadvertent headstone finds had no connection with remains of anyone living on the land.

Soil Samples 1-4 (Please see ADDENDUM C for further analysis)



Soil strata in the excavation pit: 1—fill prior to forming the 1963 concrete cap; 2—coarser rubble fill prior to forming the concrete cap; 3—the pavement stratum; and 4—karst.

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The adjacent trench: 3ab strata, looking *mauka* toward the other artifacts.



Bagged soil samples ready for analysis.

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*Extractants: P/MT=Mod. Truog, P/OL=Olsen, AA=Ammon, Acetate bases

3.

Property Transfer History

Section 8 page 27

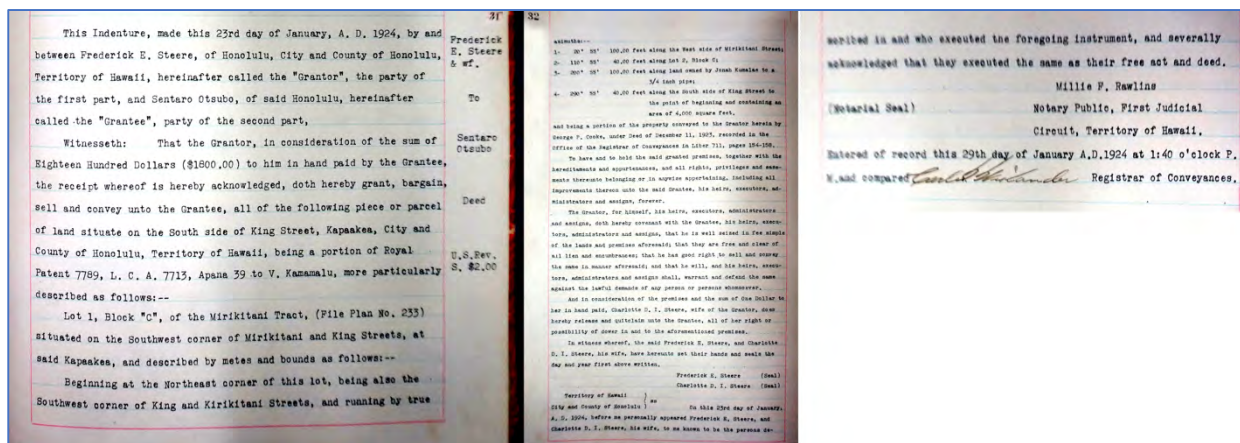
Otsubo Monument Works

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On June 23, 1919, another Cooke, George P. Cooke, received a portion of Apana 39 from Kumalae and his wife. During the period from 1920 to 1923, Agreements were reached, money borrowed and on September 11, 1923 there was a partial release of the mortgage on the property between George P. Cooke and Bank of Hawai'i paying the way to sell this property. It was Lot No. 1, in Block "C" of the Mirikitani Tract (File plan no. Reg. map 233). On Dec. 11 1923, Frederick E. Steere, and his wife purchased the Lot No. 1 property from George P. Cooke.



This January 29, 1924 Deed gave Sentaro Otsubo possession of the property that would be his home and business for more than 25 years.

On Jan. 29, 1924, Sentaro Otsubo purchased property in Lot No.1 Block C of the Mirikitani Tract from Frederick E. Steere and wife:

Lot No. 1, Block "C", of the Mirikitani Tract, (File Plan No. 233) situated on the Southwest corner of Mirikitani and King Streets, at said Kapa'akea, and described by meter and bounds as follows:—

Beginning at the Northeast corner of this lot, being also the Southwest corner of King and Mirikitani Streets, and running by true azimuths:—

1. 20 deg 55' 100.00 feet along the West side of Mirikitani Street;
2. 110 deg 55' 40.00 feet along Lot 2, Block C;
3. 200 deg 55' 100.00 feet along land owned by Jonah Kumalae to a 3/4 inch pipe;
4. 290 deg 55' 40.00 feet along the South side of King Street to the point of beginning and containing an area of 4,000 square feet.

On Oct. 1, 1941, Kenjiro and Yakue Natsuyama, husband and wife, acquired the property from Sentaro and wife Yone Otsubo, Yakue's parents.

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On March 31, 1954, the widening (*makai* side) of King Street caused the Natsuyamas to deed "688 sq. ft.—a Portion of Lot No. 1, Block C of McKinley Park Tract to the City and County of Honolulu.

THIS INDENTURE, made this 31st day of March, 1954, by and between KENJIRO NATSUYAMA and YAKUE NATSUYAMA, husband and wife, as joint tenants, of Honolulu, City and County of Honolulu, Territory of Hawaii, hereinafter called the "Grantors," parties of the first part, THE CITY AND COUNTY OF HONOLULU, a municipal corporation of the Territory of Hawaii, whose business and post office address is Honolulu Hale, Honolulu aforesaid, hereinafter called the "Grantee," party of the second part, and YONE OTSUBO, widow, hereinafter called the "party of the third part."

WITNESSETH:

That the Grantors, in consideration of the sum of TWO THOUSAND FIVE HUNDRED FORTY-FIVE AND NO/100 DOLLARS (\$2,545.00), being \$2,520.00 for land and \$25.00 for plants and shrubbery, to them paid by the Grantee, the receipt whereof is hereby acknowledged, do hereby grant, bargain, sell and convey unto the Grantee, its successors and assigns:

PARCEL 2 - of SOUTH KING STREET WIDENING (Makai Side), Between Isenberg and Coolidge Streets: Being a portion of Lot 1, Block C, of the "McKinley Park Tract" (File Plan 253), and being also a portion of S. P. M-77 and 7789, L. C. Av. 7713, Apans 39 to 41, Kamae, situate at the present West corner of South King and Coolidge Streets, at Kapaeha, Waikiki, Honolulu aforesaid, and more particularly described as follows:

Beginning at the West corner of this parcel of land, and on the new Southeast side of South King Street, the coordinates of said point of beginning referred to Government Survey Triangulation Station "PACIFIC HAWAII" being 7,000.00 feet South and 8,230.00 feet East, and running by azimuth measured clockwise from true South:

1. 200° 55' 15.00 feet along remainder of S. P. M-77 and Kamae;
2. 290° 55' 40.00 feet along the present Southeast side of South King Street;
3. 20° 55' 35.00 feet along the present Northwest side of Coolidge Street;

Thence along the new street line, on a curve to the left with a radius of 20.00 feet; the chord azimuth and distance being 159° 55' 20.00 feet;

S. 110° 55' 20.00 feet along the new Southeast side of South King Street to the point of beginning and containing an area of 600 square feet and being portion of the premises conveyed to said Kenjiro Natsuyama and Yakue Natsuyama by Sentaro Otsubo and Yone Otsubo by Deed dated September 7, 1941 and recorded in the Bureau of Conveyances at Honolulu aforesaid in Liber 1666 on Pages 497-498.

And the reversions, remainders, rents, issues and profits thereof, and all of the estate, right, title and interest of the Grantors both at law and in equity therein and thereto.

TO HAVE AND TO HOLD the same, together with all improvements, rights, easements, privileges and appurtenances thereon and thereto belonging or appertaining or held and enjoyed therewith, unto the said Grantee, its successors and assigns, forever.

And for the consideration aforesaid, the Grantors do hereby for themselves, their assigns and the heirs and assigns of the survivor of them, covenant and agree with the Grantee, its successors and assigns, that they are seized in fee simple of the above described premises; that same are free and clear of and from all encumbrances; that they have good right to sell and convey the same unto the Grantee, and that they will, their assigns and the heirs and assigns of the survivor of them shall, WARRANT and DEFEND the same unto the Grantee, its successors and assigns, forever, against the lawful claims and demands of all persons.

And for the consideration aforesaid, YONE OTSUBO, party of the third part, does hereby consent to the within conveyance by the said Grantors and does hereby release, release and quitclaim unto the Grantee, its successors and assigns, forever,

-2-

all of her right, title and interest in and to the above described premises.

IN WITNESS WHEREOF, KENJIRO NATSUYAMA, YAKUE NATSUYAMA and YONE OTSUBO have hereunto set their hands on the day and year first above written.

Kenjiro Natsuyama
Kenjiro Natsuyama

Yakue Natsuyama
Yakue Natsuyama

X (see back)
Yone Otsubo

TERRITORY OF HAWAII } ss.
CITY AND COUNTY OF HONOLULU }

On this 31st day of March, 1954, before me personally appeared KENJIRO NATSUYAMA and YAKUE NATSUYAMA, to me known to be the persons described in and who executed the foregoing instrument and acknowledged that they executed the same as their free act and deed.

James H. [Signature]
Notary Public, First District
Circuit, Territory of Hawaii

My commission expires April 30, 1955

TERRITORY OF HAWAII } ss.
CITY AND COUNTY OF HONOLULU }

On this 31st day of March, 1954, before me personally appeared YONE OTSUBO, to me known to be the person described in and who executed the foregoing instrument and acknowledged that she executed the same as her free act and deed.

James H. [Signature]
Notary Public, First District
Circuit, Territory of Hawaii

My commission expires April 30, 1955

Witness of Deeds
MAY 31 1954
and compared.
GUY B. MURPHY, Registrar of Deeds.
By [Signature] Clerk

This March 31, 1954 Deed shows that Honolulu City and County received from Kenjiro and Yakue Natsuyama 15 ft. off the King Street end of the property as well as a large curved (20 ft. radius) segment at the Coolidge Street corner—688 sq. ft. of Lot No. 1 Block C McKinley Park Tract.

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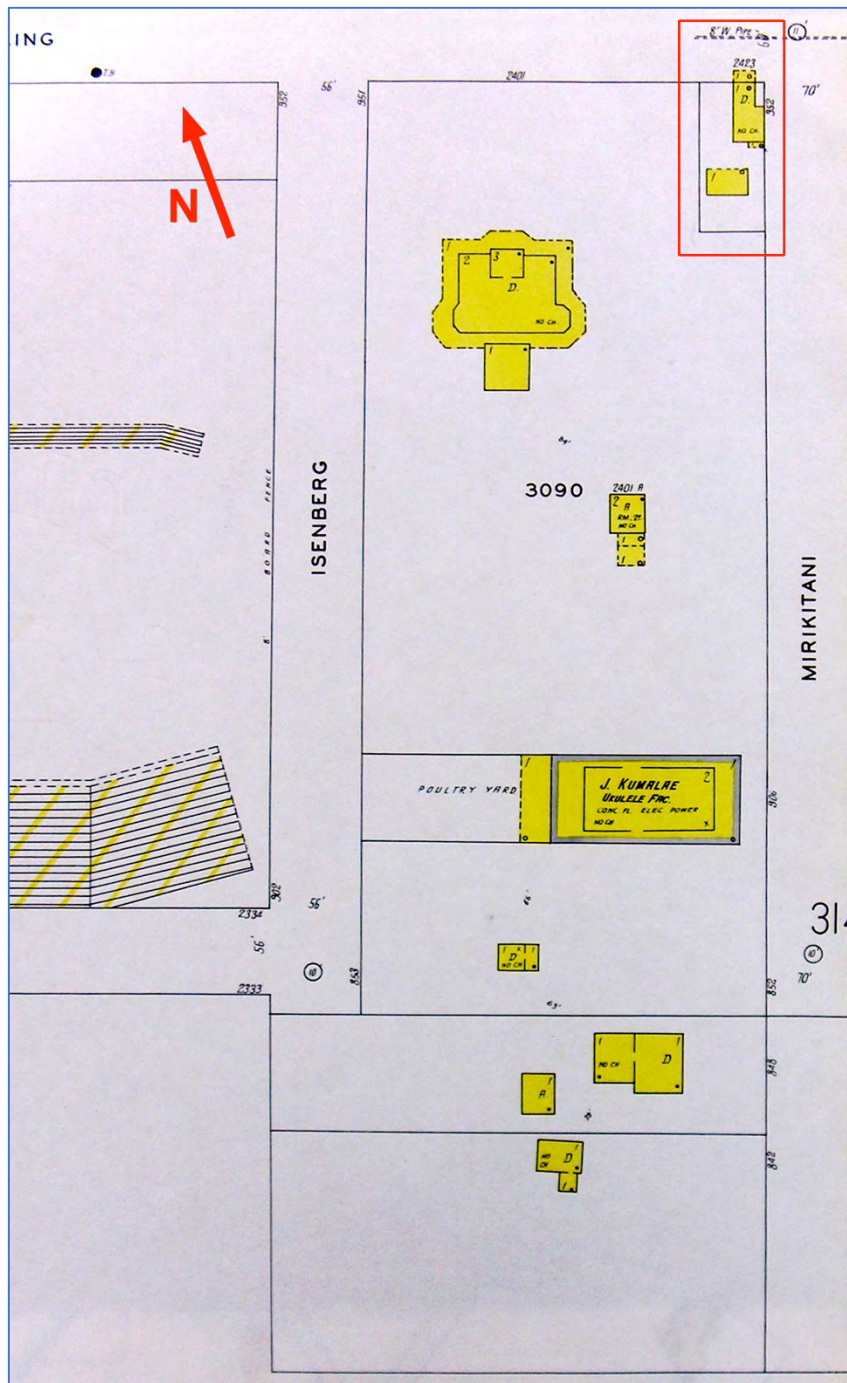
SOURCE:		TITLE: Kapaakea		DIV.	
BY: JY DATE: 5/19/64		DEED, ETC: D E E D		1941	
BY: DATE:		TMB 5030'41		2709 34	
NO.	GRANTOR, ETC.	AREA OF PARCEL	GRANTEE, ETC.		
1.	D: Sentaro Otsubo & wf Yone Inst 45687 Bk 1666 p 497 Cons: \$1. love RS: 8/5/41 10/1/41 Des	4,000	To: Sentaro Otsubo & wf Yone - I/I Kenjiro Natsuyama & wf Yakue J/T - Rdm		
2.	TMB 1970'54 (2709-Road) JY 5/19/64 D: Kenjiro Natsuyama & wf Yakue To: City & County of Hon. 686; dropped into road. (King St.) Inst 171933 Bk 2806 p 487 Cons: \$2545. RS: \$3.50 2/26/54 3/31/54 Des Note: Sentaro Otsubo died on 2/6/52; (Adv. 2/7/52). Yone Otsubo quitclaim.	3,314	To: Yone Otsubo - I/I Kenjiro Natsuyama & wf Yakue J/T - Rdm		
3.	TMB 15812'70-71 LN/ey 1/25/71 R/S: Death of Yone Otsubo 12/5/51. Info per Kenjiro Natsuyama to Real Property, Tax Office, 12/9/70. F/D: 2709-34; Owners	3,314	Kenjiro Natsuyama & wf Yakue - J/T		
NOTE: LAST AREA & GRANTEE FINAL DATA AS SHOWN ON TAX MAPS.					

History Sheet/Field Book for Lot No. 1 Block C Mirikitani Tr FP recording up to the 1971 death of Yone Otsubo, and the full ownership passing to Kenjiro and Yakue Natsuyama.

In 1990, the Natsuyamas conveyed the property to the Kenjiro and Yakue Natsuyama Family Trust. (Please see Addendum B, Property Transfers Table, pp. 121-122.)

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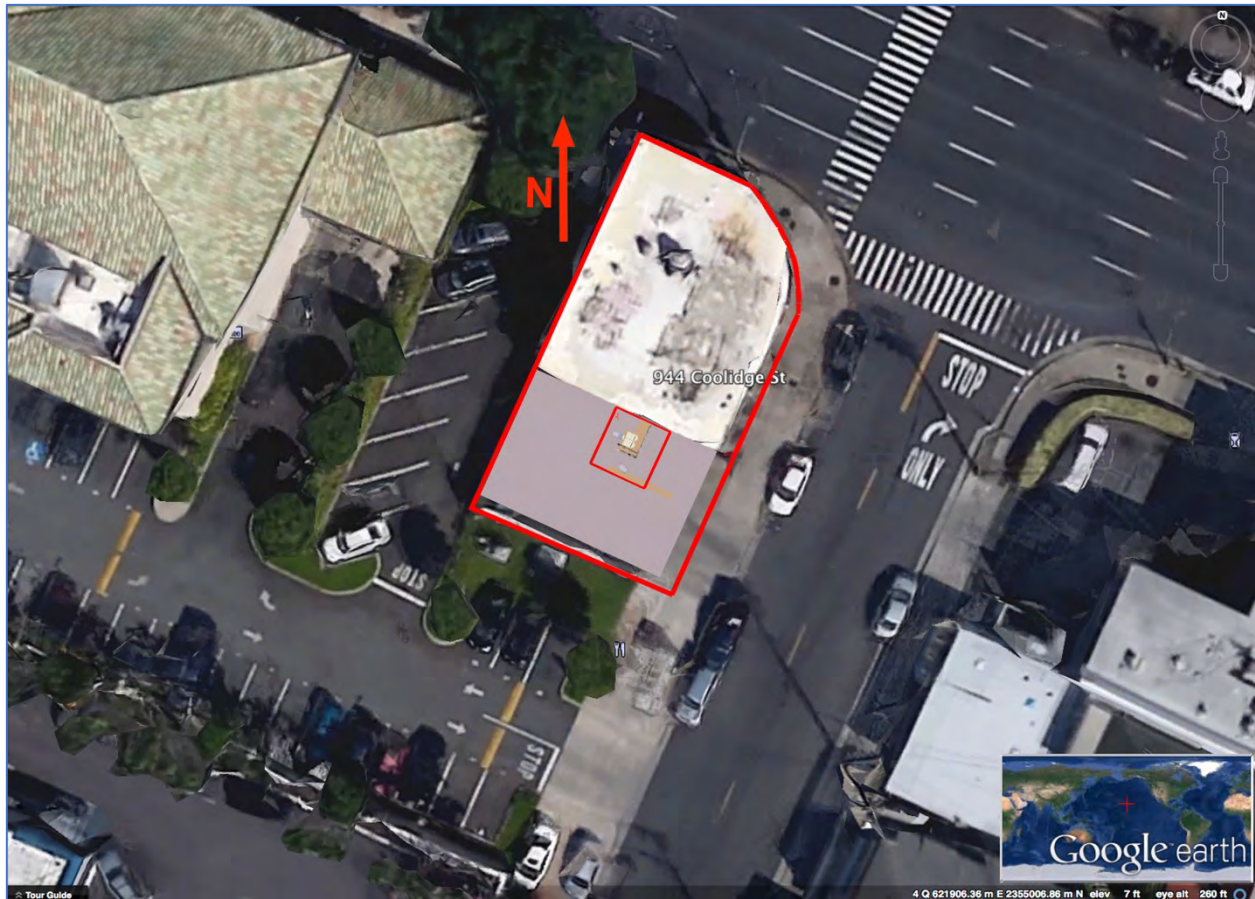
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Post 1926 Sanborn Fire Insurance map with a red rectangle demarking the Otsubo property.

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2017 Google earth satellite view with the Otsubo property outlined in red, the *makai* (southern) portion of the property was dedicated to the stone carving workshop area.

Legend:



Otsubo Monument Works

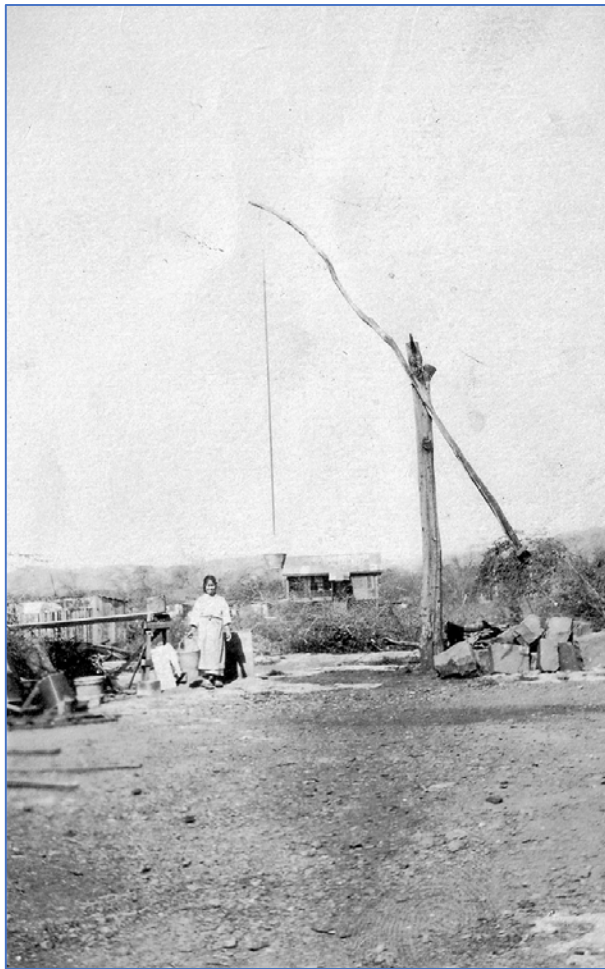
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The Stone Monument Business on the 944 Coolidge Property

The *makai* backyard of the house was an open area for the stone carving workshop, but as can be seen from the following photos, it had an uneven karst and soil surface. Transporting, positioning, and carving the extremely heavy monument stones required a sure-footed surface. Hence, Sentaro Otsubo likely procured, or was given, broken headstones from junk or salvage dealers to create a smooth working surface.



OTSUBO-NATSUYAMA FAMILY COLLECTION

Yone Otsubo in the early 1920s carrying water from the family well. In the right of the photo are the stones to be carved by Sentaro Otsubo. The Otsubo Stone Monument Shop was located on the 'Ewa *makai* corner of King and Mirikitani (Coolidge) Streets. (See also p 128 of the *Mo'ili'ili* book). Yone is standing on *pa'akea* (the top surface of the white karst). The camera is facing 'Ewa with Punchbowl in the background.

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OTSUBO-NATSUYAMA FAMILY COLLECTION

Yone Otsubo, daughter Yakue, and friend in the 1920s. This photo shows the bucket for the well and stones for Otsubo's stone monuments in the background. Most of the kiawe trees on the property have been chopped down. Note the *pa'akea* visible on surface of yard in the foreground. The camera is facing 'Ewa. (See also p. 96 of *Mo'ili'ili* book).



OTSUBO-NATSUYAMA FAMILY COLLECTION

Harriet Natsuyama with her brother Eric, behind which is an armature scaffolding that Otsubo constructed to hold stones in an upright position while carving. The camera is facing Diamond Head.

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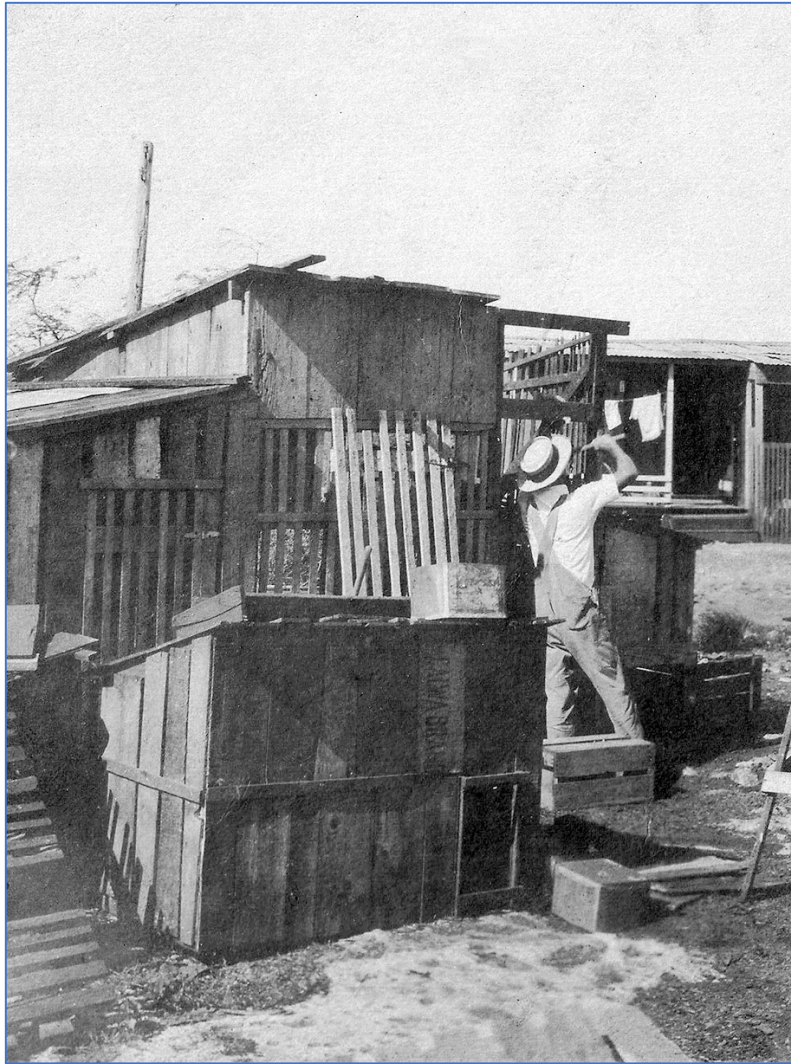


OTSUBO-NATSUYAMA FAMILY COLLECTION

Otsubo's open air workshop. Note the massive block and timber support for the in-progress stone carving atop. The camera is facing *makai*.

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OTSUBO-NATSUYAMA FAMILY COLLECTION

Sentaro Otsubo building an additional *koya* (shed) for the storage of supplies for his work area. Note the *pa'akea* surface in the foreground. (ca. 1920s.) The camera is facing 'Ewa, slightly *mauka*.

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The Hawaiian Artifacts/Objects—Embedded in the Otsubo Monument Works Pavement Structure

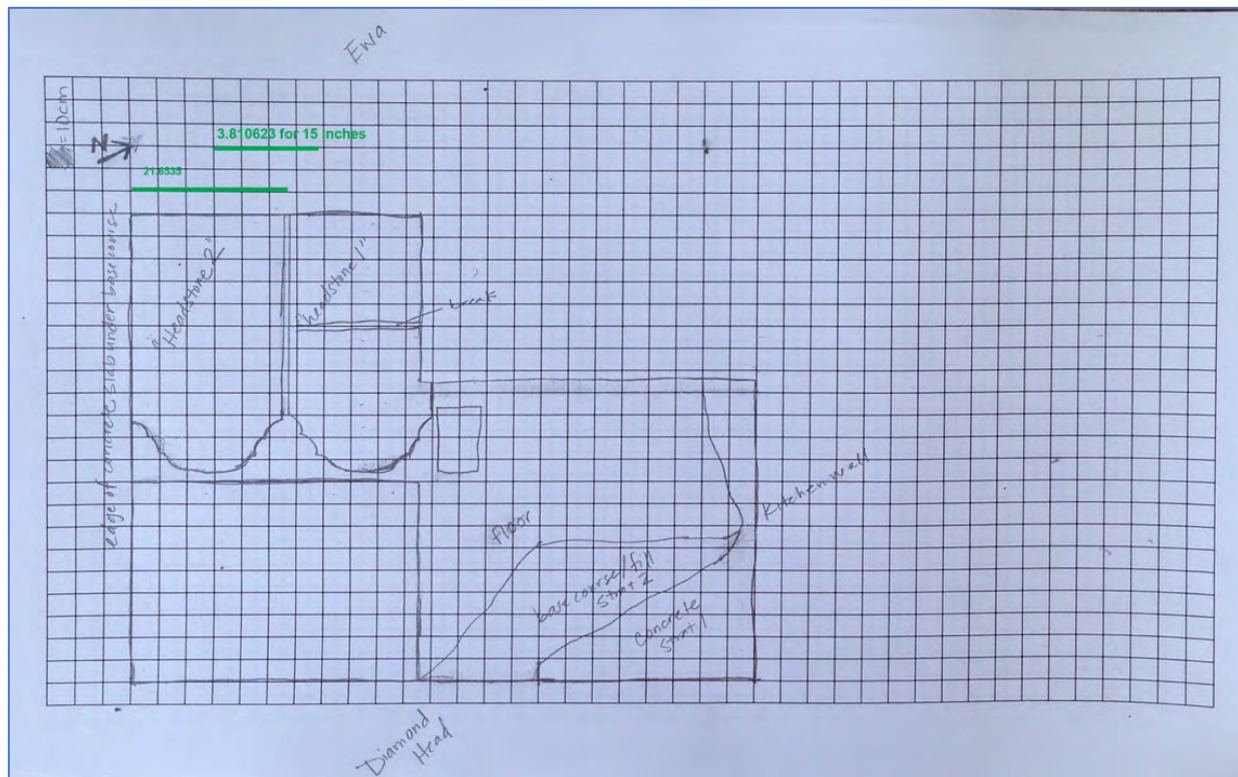
The A. Ellen P. Kamakau and N. Kepoikai Headstones



Left: A. Ellen P. Kamakau and; Right: N. Kepoikai Headstones as they were extricated from the ground.

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SKETCH: STEPHANIE HACKER

The March 2017 in-situ preliminary archeological sketch on the first day of the excavation: Headstone 1–Kamakau; Headstone 2–Kepoikai. (Headstones 3 and 4 were subsequently discovered.)

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The Matajuro Arakawa Japanese Stone



Above: top portion of Headstone 3 which fits with the Headstone 3; Below: Headstone 3 excavated, but not recovered (as removal might have compromised the concrete slab above). It was found 22 inches below grade in Stratum 3.

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The Blank Stone



Headstone 4 partially excavated and blank on both sides.

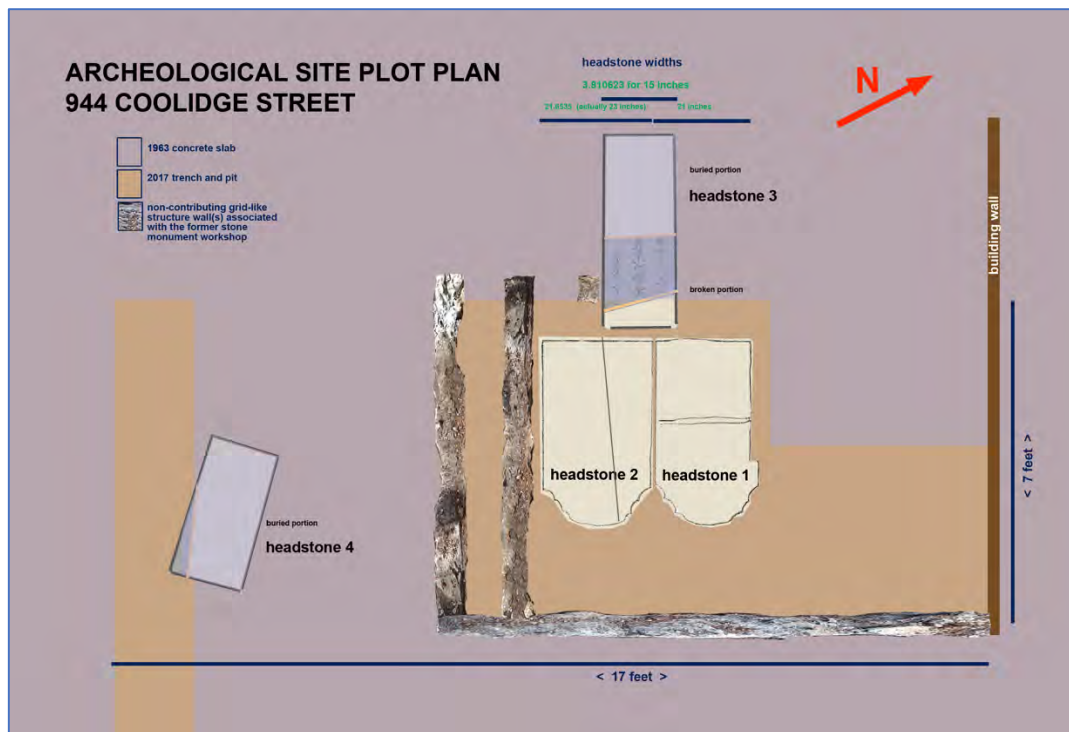


PHOTO SKETCH: LAURA RUBY

The October 2017 in-situ archeological sketch of the excavation: Headstone 1—A. Ellen P. Kamakau; Headstone 2—N. Kepoikai; Headstone 3—Matajuro Arakawa; Headstone 4—unknown.

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Some square-cut nails found in stratum 3. These findings in this stratum cannot be determined as they might have come from the fill stratum (#2 above) from Honolulu Harbor or the Ala Wai Canal. Other scraps of metal were also found.

Applicable Criteria for Research for Archeological Finds to be Applied to Criterion A—

“Property has yielded, or is likely to yield, information important in prehistory or history.”
(*National Park Service Bulletin* 36, 2000) This analysis was undertaken to further establish the Criterion A (Events/History) for the Otsubo Monument Works.

This nomination was facilitated by way of: the University of Hawai‘i course offering: ANTH 464 Hawaiian Archaeology (3) Archaeological perspective in Hawai‘i’s past, origins of Hawaiians, early settlement and culture change, settlement patterns and material culture, historic sites preservation, 2013; Enabling Geospatial Scholarship in the Humanities Symposium University of Virginia (one of 50 nationwide fellows), 2010; and *National Register Bulletin: Guidelines for Evaluating and Registering Archeological Properties*, 36. U.S. Department of the Interior, National Park Service, 2000, by Barbara Little, Erika Martin Seibert, Jan Townsend, John H. Sprinkle, Jr., John Knoerl.

This nomination document format follows the format of the "French Frigate Shoals Two Brothers " nomination by Kelly Keogh, PhD, Maritime Heritage Coordinator, Cathy Green, Maritime Archaeologist, Jason Raupp, PhD, Maritime Archaeologist.

Of the many research methodologies available for research, the most conducive to producing results were:

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- 1. Rectifying contemporary map overlays
- 2. Site-based Landscape Approach of soil strata (informal coring samples) and soil analysis
- 3. Documentary analysis from the Bureau of Conveyances (including deed research), Census data, business directories, Land Commission Awards, and DAGS Land Survey Division Map Collection and University of Hawai'i Hamilton Library Map Collection
- 4. Phenomenological Approach of Visual and Tactile descriptions of the four artifacts/headstones and a Comparative Visual Taxonomical Analysis of Form (size, surface features, and pedestal mounting) with other extant headstones of the same time period
- 5. Manufacturing techniques used on the artifacts and labor involved

Other methodologies which might have produced lesser results for this document were not considered, including Linguistic analysis, Lithic analysis, Radio carbon dating, Coral dating, Cyrax laser scanner (3-D analysis and modeling), and Patina age dating.

The Lay of the Land—the Physical Environment of the Site

Mapping the Land

The Otsubo property lies on the “Coral Plains” in the 1884 Waikīkī map by Lyons and Wall. The property sits on an area of exposed karst (discontinuous solution caverns in ancient coral beds) with very little poor top soil at about 6-7 feet in elevation. Today (2017), the Mō‘ili‘ili karst is considered historic, but only scientists should venture inside the larger caverns. The exposed karst can still be seen in the immediate neighborhood. On the Otsubo property there was one small spring on the *mauka* portion of the property, and a hand-dug well on the ‘Ewa side of the property (used for gardening and laundering).

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1901 Portion of Kapa'akea Waikiki, O'ahu with Google map and red rectangle demarking the 944 Coolidge area. As seen in this map overlay and the next map with elevations the area was likely marshy or damp. Sentaro Otsubo built his residence on posts and piers, but he built the open-air workshop at ground level for ease of moving the extremely heavy carving stones, and to securely station his heavy equipment such as an anvil and forge, among other tools. Thus, to work on a hard, flat dry surface, Otsubo laid de-sanctified broken headstones (likely obtained from a scrap or junk dealer in town) face down, and covered them with a thin ¼ inch surface of cement for ease of walking within his workshop. (Please see pp. 59 and 61 in this document for the initial disposition of the headstones within the excavation.)

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In 1923, property owner Henry Hausten undertook an alteration on his nearby/adjacent property originally owned by the Ai-McGuire family. Hausten bulldozed fill into the historical Loko Pa'akea to decrease his water- or marsh-land holdings and increase his solid-land holdings. (Chester Lao, "Mānoa Valley: Fact and Fiction." p. 20-21).



2017 Google map with red elevation overlays suggesting that the depression still remains of the former Loko Pa'akea after Henry Hausten bulldozed it, c. 1923.

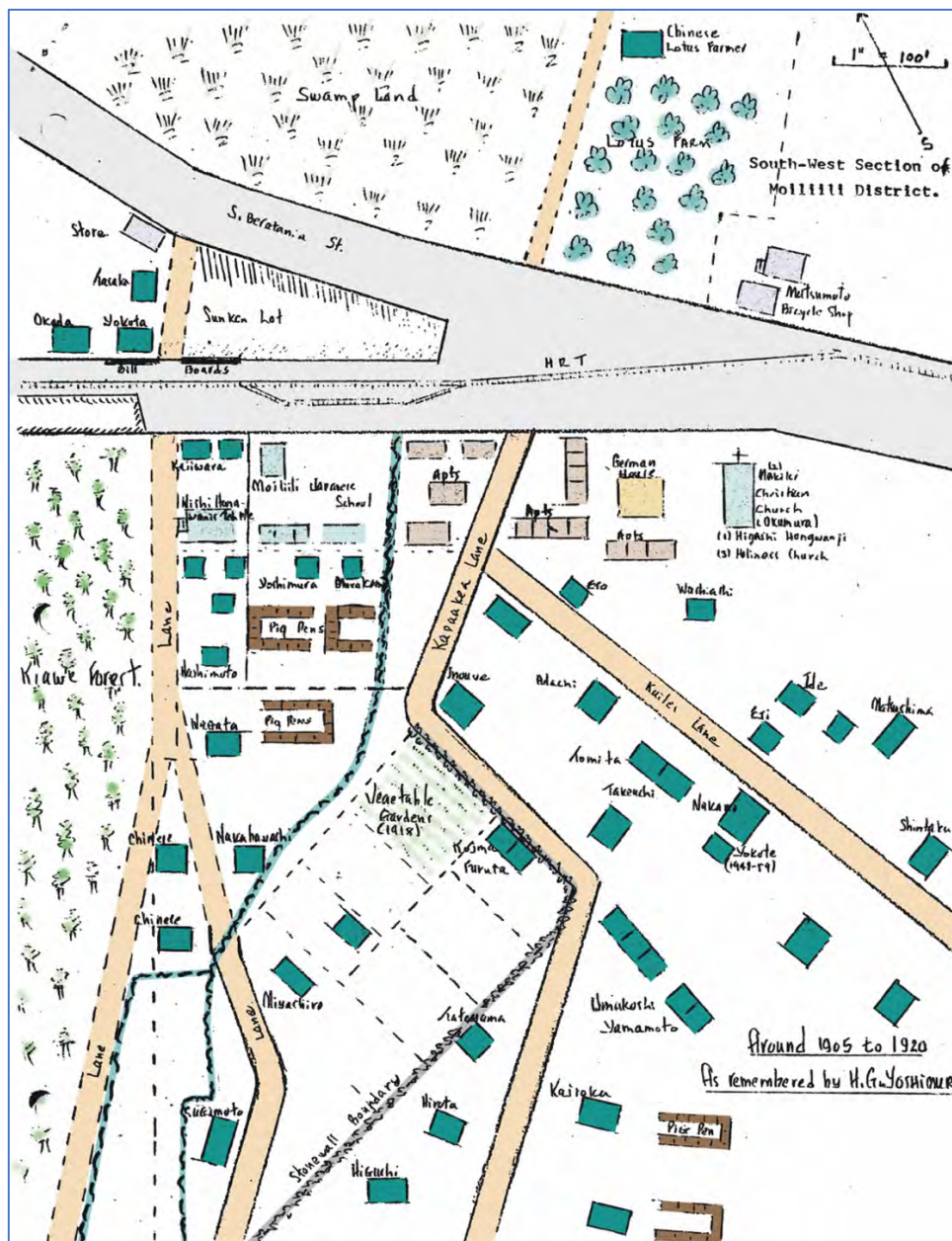
This data set suggests that this Mō'ili'ili area was low in elevation. Today, the karst can be seen at various points in this area.

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MAP: HARRY YOSHIMURA: FROM MŌ'ILI'ILI - THE LIFE OF A COMMUNITY

This 1905-1920 hand-drawn map by Harry Yoshimura shows an extensive kiawe forest in the area 'Ewa of the current Hausten Street. After Sentaro Otsubo bought the land he first had to clear many kiawe trees so he could build his residence and workshop. The Coolidge area with karst (*pa'akea*) at the ground level was not suitable for farming (though the Otsubo's tended a small vegetable garden), whereas the Diamond Head area adjacent to the Ala Naio Stream and Kap'akea area was continually flooded with *mauka* alluvium creating rich soil. the low-lying elevation data and the predominance of kiawe indicate poor agricultural returns.

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OTSUBO-NATSUYAMA FAMILY COLLECTION

Entrance to the Otsubo property in May 1940 showing Boys' Day kites. View from across King Street looking *makai* to the property shows huge kiawe trees, remnants of the kiawe forest. To the right can be seen the fence of the Kumalae/Dreier Manor property.

The p. 46 Yoshimura map shows Kiawe forest on the property that was to become the Otsubo's.

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Site-Based Landscape Approach by Soil Strata Analysis



Google Earth map of observed trenching and types of soil strata seen in Mō'ili'ili.

4.

Phenomenological Approach in Mō'ili'ili at Trenching Sites

This section is a comparison of seven observed trenched sites corroborating the soil analysis of the specific 1. Otsubo Monument Works site. (All strata were dry when under observation.)

1 Otsubo Monument Works

top strata mix of fill and karst (8 and 6-7 on the value scale) poor soil conditions for agricultural production—likely never in agricultural use during pre or pos contact eras

2 King Street and University Avenue

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top strata mix of fill might have been mixed-rubble brought to fill the large sink hole collapse in 1952.

3 Nāko'oko'o and Ka'aha Streets

medium brown alluvium (5 on the value scale)—homogenous without fill mixture --modest agriculture productivity likely. Cotton among other plant materials was grown here (photographic evidence)

4 Mō'ili'ili Japanese Cemetery

medium brown alluvium (5 on the value scale)—, 'ili'ili, and huge boulders. Considered *kula* and dry—in the early 20th century there was modest rose garden agricultural productivity.

5 Kaimukī High School

top soil *lo'i* and rice pondfields at least 4 feet deep, agricultural production good because of nutrient-enriching overflows of the Mānoa and Pāhoa Streams. Dark brown aluvium (2 on the value scale) (photographic evidence)

6 Hīhīwai and Kamoku Streets

top soil *lo'i* and rice pondfields at least 5 feet deep, agricultural production good because of nutrient-enriching overflows of the *makai-mauka* major auwai channels. Dark brown aluvium (2 on the value scale) (photographic evidence)

This data set of trench samples show the poor agricultural conditionas for the Otsubo property compared to other locales in Mō'ili'ili.

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Soil Samples 1-4 from the Otsubo Trenching (Please see Addendum C for further analysis)



Soil strata in the excavation pit: 1—fill prior to forming the 1963 concrete cap; 2—coarser rubble fill prior to forming the concrete cap; 3—the pavement stratum; and 4—karst.

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The adjacent trench: 3ab strata, looking *mauka* toward the other artifacts.



Bagged soil samples ready for analysis.

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UNIVERSITY OF HAWAII AT MANOA														
COLLEGE OF TROPICAL AGRICULTURE AND HUMAN RESOURCES														
AGRICULTURAL DIAGNOSTIC SERVICE CENTER														
1910 EAST-WEST ROAD, SHERMAN 134, HONOLULU, HAWAII, 96822														
Phone: (808)956-6706 Fax: (808)956-2592														
SOIL ANALYSIS														
Laura Ruby														
509 University Ave, #902														
Honolulu, HI 96826														
Honolulu, HI 96826														
Phone No.: 366-0847														
JCNO:														
COMMENT														
RECEIVED: 09/22/2017														
COMPLETED:														
AGENT:														
PHONE:														
mmhos/cm														
ppm, ug/g														
%														
mg/dm3														
LABNO	EXTRT	DESCRIPTION	pH	EC	P	K	Ca	Mg	N	TC	Mn	Fe	Cu	Zn
17-22F		2	8.1		75	709	7872	847						
17-23F		3a & F	8.4		42	591	8757	780						
17-24F		3	8.3		40	539	7911	737						
17-25F		3 Makai	8.0		136	844	8235	1058						
17-26F		3ab Makai	7.7		206	1223	6606	1120						

*Extractants: P/MT=Mod. Truog, P/O=L=Olsen, AA=Ammon. Acetate bases.

Ray Uchida, University of Hawaii College of Tropical Agriculture and Human Resources soil chemist, made this analysis possible.

Regarding the excavation at 944 Coolidge the soil analysis assessment of Strata 3: the soil was very high in pH factors meaning that the bases of potassium, calcium, and magnesium would yield poor growing conditions. Agriculture prior to the twentieth century did not take place in this location, nor were there Hawaiian citizens living in this particular locale, leading to the conclusion that these inadvertent headstone finds had no connection with remains of anyone living on the land.

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Lay of the Land and Soil Analysis conclusions:

All trenching was about 6-7 feet deep, strata were dry when under observation. In 1923-1924, the time of Sentaro Otsubo's purchase of 944 Coolidge Street, Moiliili Town was growing, the agriculturally rich areas were in production and this dry, virtually top-soil-less property was on the outskirts of the town, a good place to for Otsubo's stone monument light-industry to set up shop. From the evidence cited in D. 1. And D. 2., there was no prior agricultural activity on the Otsubo property. Otsubo cut down kiawe trees and endeavored to make the ground surface as smooth and continuous as possible to facilitate his stone carving manufacturing.

4-5.

Phenomenological Approach of Visual and Tactile descriptions of the four artifacts/headstones and a Comparative Visual Taxonomical Analysis of Form (size, surface features, and pedestal mounting) with other extant headstones of the same time period and manufacturing techniques used on the artifacts and labor involved.

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Evidence for Identification of the Four Artifacts Found at the Otsubo Monument Works.

The Hawaiian A. Ellen P. Kamakau and N. Kepoikai Headstones:

**Objects within the Otsubo Monument Works Site and
Study of O'ahu Cemeteries in Existence in the 1880s (Photographs by Laura Ruby and
Harriet Natsuyama)**



Left: A. Ellen. P. Kamakau; Right: N. Kepoikai

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Historical Research Questions Regarding the Damaged Headstones Removed from Cemeteries and Then Located at 944 Coolidge Street

Hypothesis: Low land marshy next to Loko Pa'akea. Otsubo wished a flat working surface for Otsubo's heavy forge and anvil and carving workshop, and these headstones provided secure footing.

Hypothesis: Otsubo Monument Works business ordered stones from Japan and the mainland United States, as well as local basaltic blue stones; and it is likely that damaged stones previously located in Honolulu cemeteries were purchased or acquired at a minimum cost from salvage or junk dealers in Honolulu. These stones were for adaptive reuse in a pavement structure.

Hypothesis: Otsubo "reused (buried) these stones through cultural practices" and they represent "human adaptations."

Hypothesis: Historically adaptive reuse of headstones can be seen at Ma'ema'e Cemetery, Honolulu and in a Google image.

Hypothesis: Otsubo covered the headstones with a thin (approximately .25") admixture of cement and sand for greater foot stability in and around his stone carving workshop.

Hypothesis: The Kamakau and Kepoikai markers come from the Roman Catholic Cemetery on King Street.

Hypothesis: In the Roman Catholic Cemetery, Ellen P. Kamakau and N. Kepoikai stones were possibly damaged due to high wind or ground slippage; small insignificant pins failed to hold the heavy stones upright; and they fell over and broke (or perhaps they were internally fractured).

Hypothesis: The Kamakau and Kepoikai stones are so similar as to have been carved at the same time, by the same hand and then presumably placed in the same location. They died three years apart.

Hypothesis: The Matajuro Arakawa monument came from the Makiki Cemetery where there is a large number of Japanese markers.

Hypothesis: Possibly Otsubo was commissioned to recreate the damaged Arakawa monument, though the stone thickness and roughness of carving is unlike Otsubo's carvings. The new replacement stone is relocated at the Makiki Cemetery. (Harriet Natsuyama, Interview, 2017)

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Types of Stone:

Marble headstones were investigated (as all four stones found in the 944 Coolidge Street excavation were marble).

Marble characteristics:

Metamorphic rock created under earth's heat or pressure (calcium carbonate, CaCO_3). Marble is about #3 on the hardness scale. Native bluestone (basalt) is #7 on the hardness scale, and imported granite (silica, SiO_2) is also #7. These #7 headstones found in many O'ahu cemeteries are much more durable/harder than marble and do withstand weathering and breakage.

Size:

Conclusion is that the two Hawaiian headstones are slightly larger than other marble stones in the cemeteries explored. The stones might have been carved at a mainland stone carving workshop so the ornamentation is different from other headstones.

Ellen's stone

40 inches tall

base is 21" wide

3 inches thick;

tympanum 12 inches high



Keпоikai's stone

41 inches tall

base is 23" wide

3 inches thick

tympanum 8 inches high

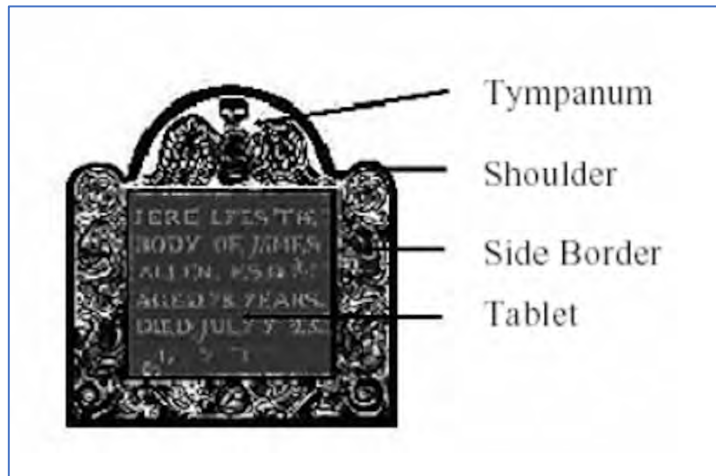


Verso sides of the two Hawaiian headstones. Cement was troweled on to these surfaces for safe walking and working.

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Headstone Surface Characteristics–Headstone Ornamentation:



Stone characteristic definitions from: *Early American Gravestones Introduction to the Farber Gravestone Collection* by Jessie Lie Farber
Copyright 2003 American Antiquarian Society.

Types of engraving–(incising into the stone) and relief carving (projecting detail created by removing the area around the detail)

Lettering

Many nineteenth century stones are carved in:
Copperplate Engraving,
Caslon or Caslon-like type face,
Block lettering, or
Kanji

Borders

These are many and varied.

Tympanum and Side Border Sculptural Carving–these may depict special imagery that the deceased favored in life or sculptural low-relief of floral, architectural details, or religious nature.

The Text

In the 19th century Hawaiians knew exact places and names for everything on the land. The Land Commission Awards state specific land features; and many of the headstones found in our cemetery investigations have specific birth places and death places. Thus Ellen's stone says she was born at Kaopipa, a small portion (perhaps a *mo'o 'aina*) of Kipahulu. She died in Kahehuna, a now mostly-forgotten name for a Honolulu Lower Punchbowl neighborhood.

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Engraved beveled lettering in Caslon or Caslon-like type face



Finely-detailed filigree border found on both stones is one of the points of similarity shared by both stones. The engraved lettering style is another point of comonality, and the shape of the tympanum another.

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Kanji carving on the Matajuro Arakawa stone is a fine example of brushlike strokes designed so that the shadows create the characters. (No paint is needed to make the characters stand out.)

Size thicker and kanji more brushlike than newer stone at Makiki Cemetery Perhaps the new replacement was to have consistency of marble types and kanji (or perhaps the original had been broken ca. 1927 when Japanese memorial enclosure was created)

Pedestals and Types of Mounting to Pedestals in the Original Disposition of the Hawaiian Artifacts/Objects:

Some stones are inserted directly into the ground, but over time these stones will lean or fall over. Pedestals are either one or two stones high. They have larger girths than the headstones they support. They often have chamfered edges.

The headstones are affixed to the pedestal stones by one of two methods. Pin method—holes are drilled out at the base of the headstone and matching holes drilled into the pedestal. On average pins are about four inches long. The headstone is either set in place without mortar or mortared. The other method is the slotted pedestal mount and the pedestal stones are usually made of concrete. A deep opening is formed in the concrete. The slotted pedestal is often attached to a second pedestal stone. The headstone is set into the slot and mortared.

The pedestals extant in the curbed enclosure at the Roman Catholic Cemetery were most likely erected for the Kamakau and Kepoikai headstones. There are no pin holes or wear marks

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showing. Additional pedestal stones that would have fit the mortar imprints of the these extant stones. The headstones might have been placed in slots with pins fitting these smaller concrete pedestal rectangles.

In the pinned-type of mounting, iron pins often rust and expand/spall breaking the marble stone. The Kamakau stone pins were too shallow to support the heavy stone, and hence, broke the stone and caused it to fall. In the case of the Kepoikai stone, the pins rusted out and the iron pins broke causing the stone to topple. The slotted pedestal-type is sturdy, but those broken headstones are often a result of structural flaws in the marble.



This 29.5" pedestal and 24.75" wide mortar imprint is next to the Julia M. Kamakau stone in the Roman Catholic Cemetery curbed enclosure. It is likely the place for 21"-wide A. Ellen P. Kamakau's headstone. A missing top pedestal with holes for pins would have joined this pedestal to Ellen's heavy white marble headstone.

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This extant pedestal within the curbed compound is 29.5" and has a 24" mortar imprint (27" chamfer to chamfer) is the likely place for the 23"-wide N. Kepoikai headstone. A now-missing top pedestal with holes for pins would have joined this pedestal to Kepoikai's heavy white marble headstone.

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A. Ellen P. Kamakau and N. Kepoikai's heavy marble stones found at 944 Coolidge Street. Cement plastering is a later addition to the reverse sides of the stones by stonecarver Sentaro Otsubo. Left: Ellen's short pins were not sufficient to hold the weight of the heavy stone and the marble headstone toppled and broke. Right: Kepoikai's pins rusted out also causing the stone to topple. (The breaks in the middle of the stones look fairly clean and not weathered, so it's possible that the excavator shovel broke them.)

Examples of Weathered and Broken Marble Headstones

These marble stone examples date from the same 1880s-era as the two 944 Coolidge Street headstones.



Left: A weathered foliated/banded marble stone found at Kawaiaha'o Cemetery; Right: a weathered stone also found at Kawaiaha'o Cemetery.

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Left: a weathered stone at O'ahu Cemetery; Right: a weathered broken and repaired stone at O'ahu Cemetery.



Left and right: Kawaiaha'o flawed stones that cracked as a result of weathering and moisture seeping into those flaws. These stones have slotted pedestals.

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A Makiki Cemetery slotted pedestal formerly holding a very thin marble headstone (The broken pieces of the headstone are to the right in the grass below.)

Reasons for breakage are flaws within the marble stones and/or weathering.

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Cemetery Sites to assess the original location of Kamakau and Kepoikai headstones

O'ahu Cemetery—The Gravesite of Samuel Manaiākalani Kamakau (historian) and his wife Sarah Hainakolo Kamakau.

Samuel Manaiākalani Kamakau (1815-1876) and wife, Sarah Hainakolo (1824-1905) share a single bluestone marker having an unusual front and back inscription for husband and wife. This blue stone marker and pedestal originate in Hawai'i and it is likely that this relief block lettering style was carved by a stone carver on O'ahu. (In some documents the stone is incorrectly located at Mae'mae Cemetery.)



Front and verso of the single bluestone marker for Samuel Manaiākalani Kamakau (1815-1876) and wife, Sarah Hainakolo Kamakau (1824-1905).

The bluestone is a local native stone—Sarah would have selected it. Also she chose Oahu Cemetery as their resting place. Perhaps Samuel and Sarah chose this unique stone relief inscription together—and chose the non-sectarian Oahu Cemetery for burial in 1876.

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The Roman Catholic King Street Cemetery–The Kamakau Curbed-Enclosure Gravesite



164" \longleftrightarrow width;

^

|
|
|

v 296" length

Within the curbing: Front: From left to right: a concrete cross (no notation); tree stump; Julia Kamakau's headstone; and rectangular pedestal with white mortar imprint, likely for the A. Ellen P. Kamakau stone; Rear: a square pedestal; and rectangular pedestal with gray imprint, likely for the N. Kepoikai stone.

By measurements and assessments of the headstones and historical documents it is likely that the two Hawaiian headstones were originally in this curbed compound.

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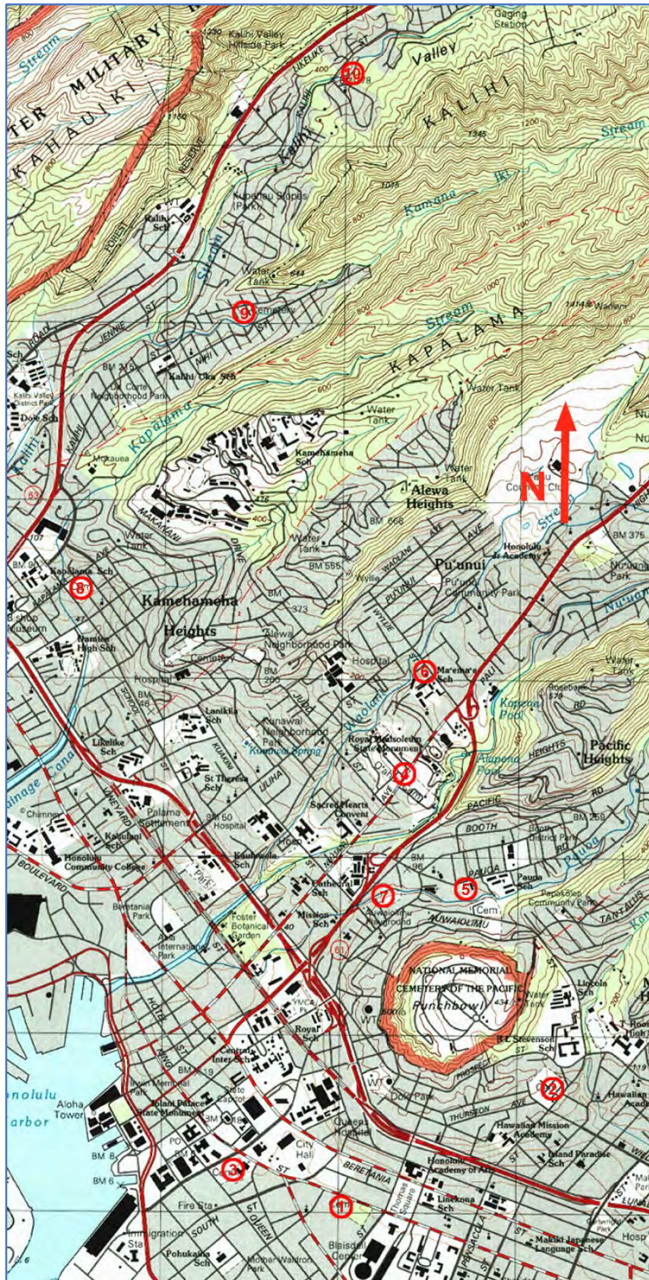


The Julia M. Kamakau (1887-1897) headstone is native bluestone. The scrolled border on her headstone suggests that she might have been a young scholar. Her burial site is within the curbed enclosure.

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Possible Other Cemeteries, Grave Sites, and Grave Markers in Honolulu



- 1--Roman Catholic Cemetery (839 S. King Street)
- 2--Makiki Cemetery (1630 Pensacola Street)
- 3--Kawaiaha'o Church Cemetery (Punchbowl and S. King Streets)
- 4--O'ahu Cemetery (2162 Nuuanu Avenue)
- 5--Uluhaimalama Cemetery (355/352 Auwaiolimu Street)
- 6--Ma'ema'e Cemetery (originally a Kamakapili Church *apana* chapel and cemetery) (401 Wyllie Street)
- 7--Kamakapili Church o Pauoa or Auwaiolimu-Pauoa Chapel (originally a Kamakapili Church *apana* chapel and cemetery) (2171 Pauoa Road)
- 8--Pu'e'a Cemetery (1440 N. School Street and Kapalama Avenue)
- 9--Kauilani Portuguese Cemetery in Kalihi (1617-1699 Violet Street and *makai* corner of Kamanaiki Street)
- 10--Our Lady of the Mount Catholic Cemetery (originally a Portuguese church and cemetery grounds) (1614 Monte Street *mauka* on Kalihi Street)

This USGS map shows the locations of Honolulu cemeteries researched.

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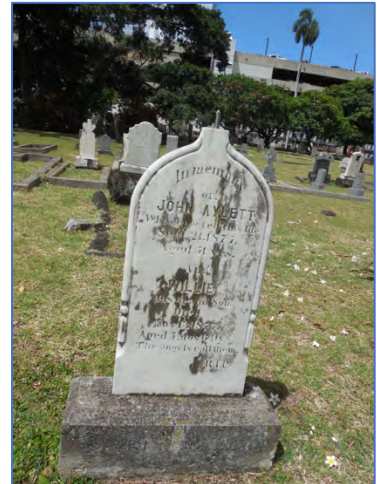
Marble Headstones from the 1880s Found in Honolulu Cemeteries

The Roman Catholic King Street Cemetery



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Top row, far right: the pin at the top of this headstone might have supported a finial



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Ma'ema'e Apana Cemetery



This is a standard military headstone used for many years as a stepping stone for (perhaps) the parsonage for Ma'ema'e Apana Chapel (Kaumakapili Apana Church). This is an example of headstone adaptive reuse.



The stepping stone is to the right of the concrete parsonage slab, looking 'Ewa.

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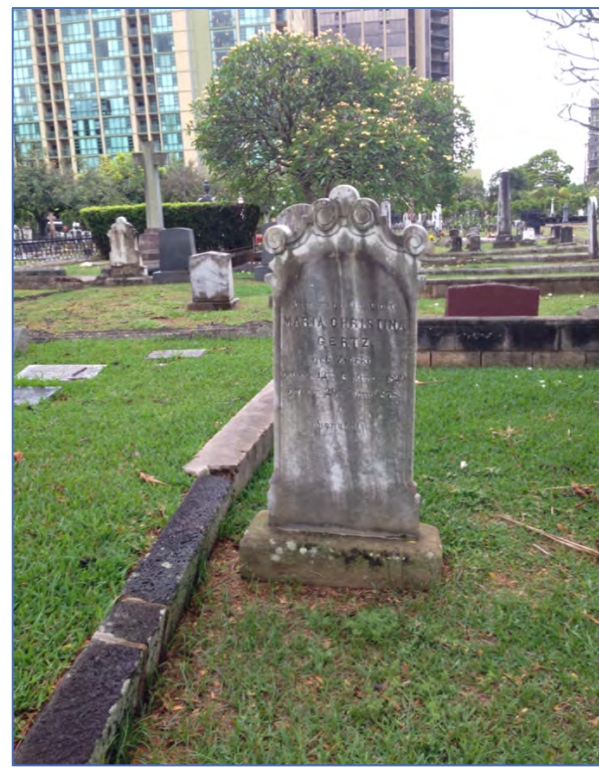
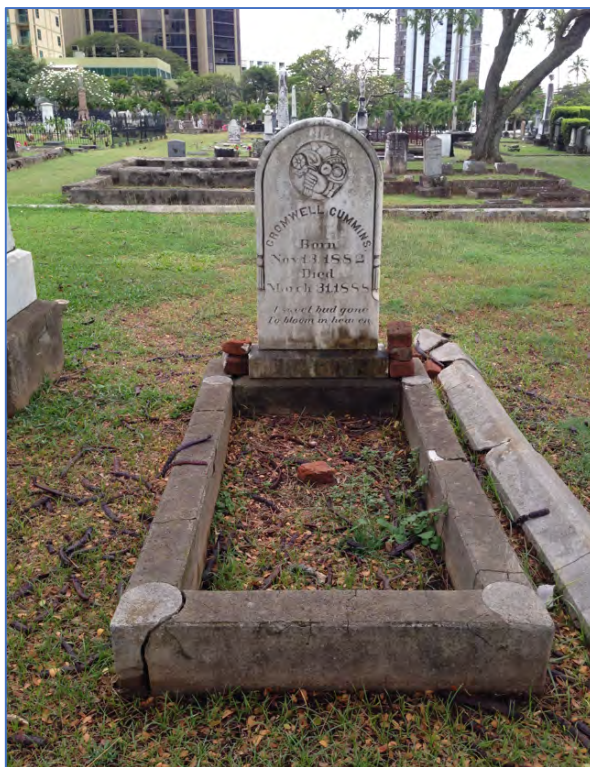
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O'ahu Cemetery



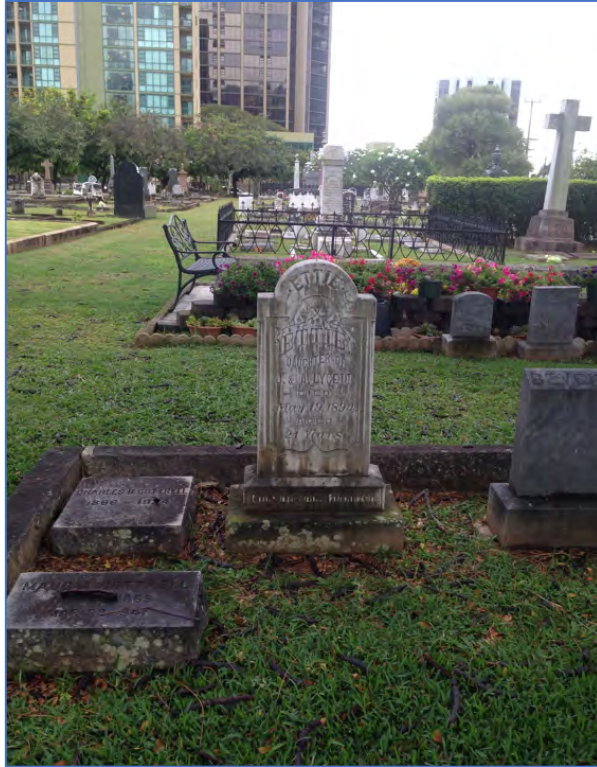
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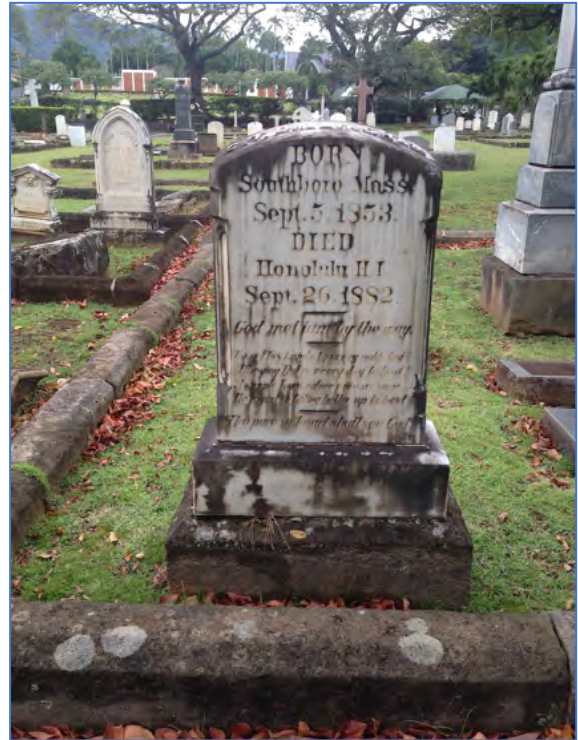
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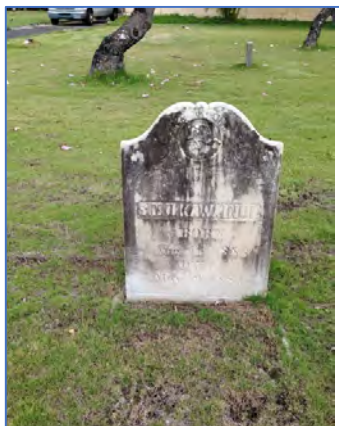
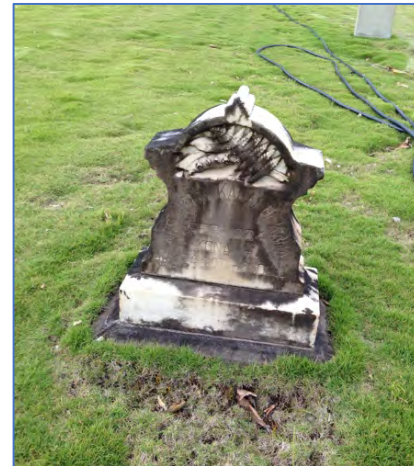
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Kawaiaha'o Cemetery



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Uluhaimalama Cemetery—'Auwaiolimu (Pauoa)



Also visited are these cemeteries, though there are very few, if any, 1880s grave markers: Pu'e'a Cemetery, Kaumakapili Church o Pauoa Apana or 'Auwaiolimu-Pauoa Chapel Cemetery, Our Lady of the Mount Catholic Cemetery, Kauilani Portuguese Cemetery, and Pōhakuloa Cemetery. Also, investigated is the Mō'ili'ili Japanese Cemetery—the documentation written by Laura Ruby, is now placed on the National Register of Historic Places.

All locations point back to Kamakau family converting to catholicism and probaably kepoikai also as the aluli line is catholic.

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Documentary and Map Analysis–Historical/Cultural Documentation (Please see Maps Section)

People Associated with the Artifacts and 944 Coolidge Street Property (Please see Addendum A–Historical Events Timeline, pp. 119-120)

The Hawaiian Headstones

By measurements and assessments of the headstones and historical documents it is likely that the two Hawaiian headstones were originally in the curbed Kamakau-mā compound in the King Street Roman Catholic Cemetery.

A. Ellen P. Kamakau (1850-1884)



A. Ellen P. Kamakau Headstone

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As of January 2020, we have not been able to find documentation on A. Ellen P. Kamakau/ Abigalia Ellen Hakaleleponi "Poni" Kamakau, but all the clues are there that she was a member of the extended Kamakau family. We have not found any documents directly linking historian Samuel Manaiakalani Kamakau or his son Samuel Mahelona Kamakau with Ellen. The archives and libraries we searched are: Hawai'i State Archives (including First and Second Circuit Probate Documents, Land Commission Awards Index, and Lahainaluna Students Pamphlet), Bureau of Conveyances, Hawaiian Historical Society Library, Board of Health Records, Hawaiian Mission Houses Historic Site and Archives, and Catholic Archives.

Kipahulu

What we have found is geographical confirmation that all were associated with Kipahulu) Moku (large land division) on Maui. (Kipahulu: *Ka 'Aina O Ka Makani Ka'ili Aloha—Land of the Love-Snatching Wind*)

The Kalanimakalii, Kamakau, Kepoikai, and Aluli families were closely intertwined. Much of the family interaction appears to have been on Maui on the Kipahulu family land (and also in Lahaina and Wailuku).

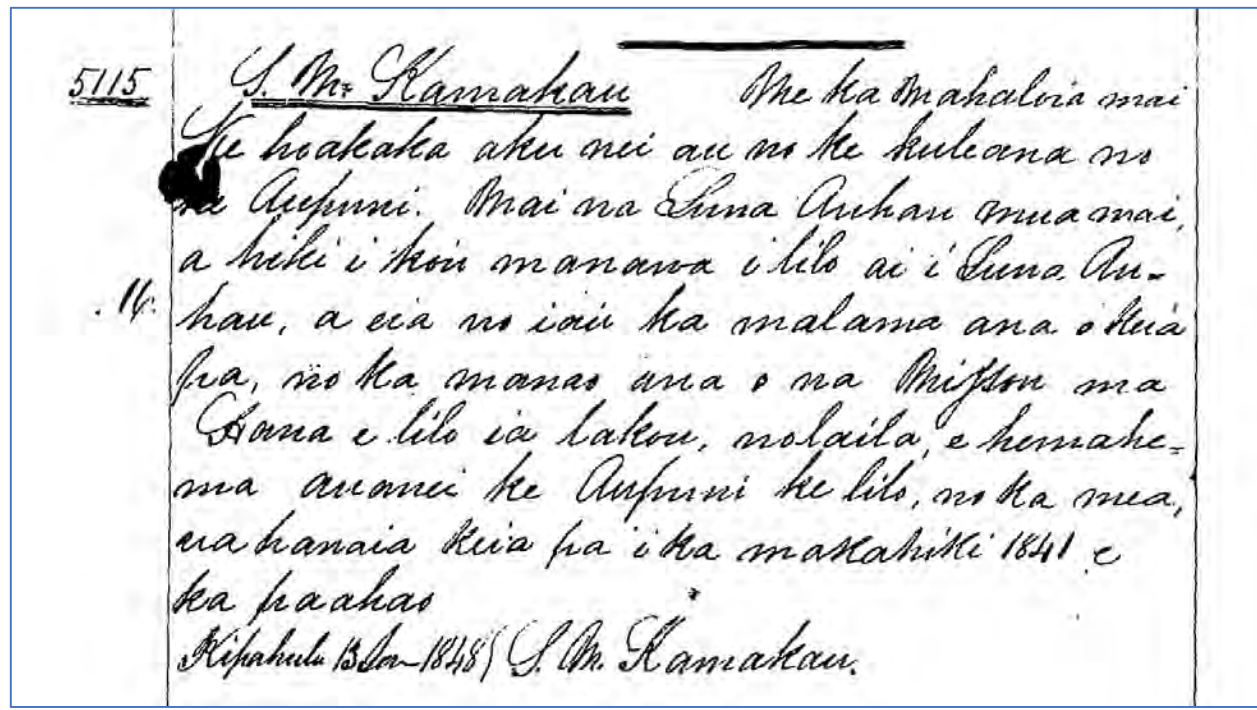
Kalanimakalii and Sarah Hainakalo Kamakau were brother and sister. Kalanimakalii was granted Land Commission Award 0451B in Kalena Ahupua'a 'Ili Kumuula [name of ancestor] in the Kipahulu district. (*Buke Mahele* 7 p. 753 for 5.68 acres)

Sarah Hainakalo was the wife of historian Samuel Manaiakalani Kamakau. They were married 1844 in Lahaina and lived in Kaopipa, Kipahulu where he was teacher and principal at Kipahulu School, from ca. 1845-46 to ca. 1862. In ca. 1860, Kamakau (and probably his wife) converted to Roman Catholicism. The family moved to Honolulu soon after their daughter, Kukelani Ka'a'apookalani was born in December 1862. At the time of S.M. Kamakau's death in 1876 the *Lahui Hawaii* newspaper (September 7, 1876) reported that they had seven children of which there were three living at that time. The son, Samuel Mahelona, was born on Maui ca. 1840s and lived on O'ahu beyond his mother's death in 1905.

In 1848, the elder Kamakau brought a complaint against the government Tax Assessor for adjusting the boundaries on his family's Kipahulu property or for charging more in taxes. This was likely the Kalanimakalii and Sarah Hainakalo Kamakau family Land Commission Award.

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Historian Samuel Manaiakalani Kamakau would have been 33 years old at the time of this entry. He was a teacher and principal at Kipahulu School. At that time, he was a Congregationalist.

A. Ellen P. Kamakau/Abigalia Ellen Hakaponi "Poni" Kamakau was born in Kaopipa (or Kaupipa or Kaapipa) in 1850. This land is an elevated sea cliff with a long extended-peninsula jutting out into the ocean. Kaopipa is *makai* of the Kalanimakalii LCA land and within walking distance. It is also in waking distance to both the Kipahulu Congregational Church and St Paul's Roman Catholic Church—as well as the Kipahulu School where she might have been a student during the time of S.M. Kamakau's teaching tenure.

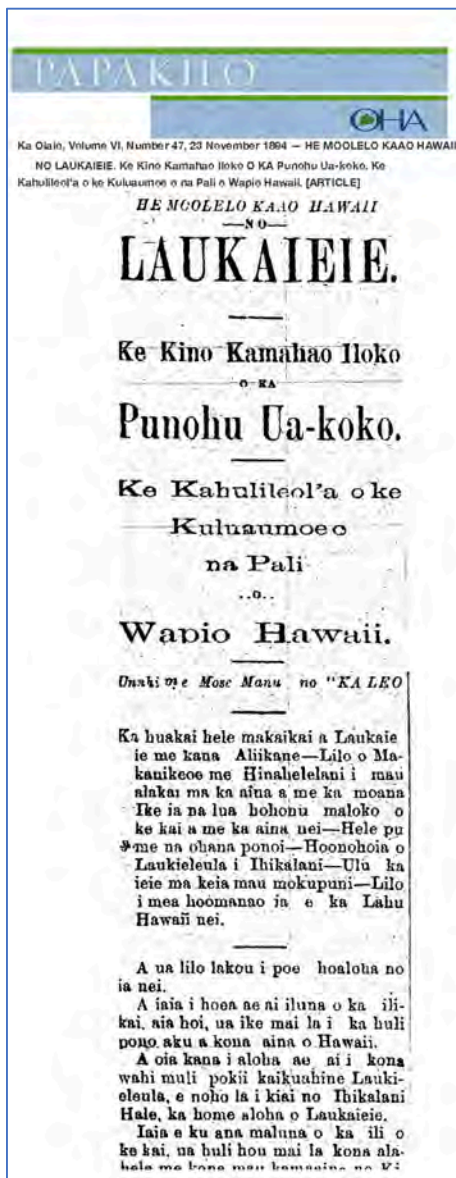
A November 23, 1894 article, in the newspaper *Ka Oiaio* mentions "At this place at Kaupipa is where the warehouse of the Kipahulu Sugar Co. stands, and there is a fishing shrine there for the ancient fishermen, and S. Mahelona Kamakau is the owner of that place, with his mother who is residing here in Honolulu." (translation by Puakea Nogelmeyer) Samuel Mahelona Kamakau (b. ca. 1840s-d. post-1905) was the son of the historian S.M. and Hainakolo Kamakau. (The "here" refers to Kaehuna in Honolulu.)

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A ua hiki hou aku la lakou no
Mokushole, a ia Makanikeoe e noho
ana malaila, aia hoi, ua hoi aku la
na kino makani o keia mau mano a
noho iluna o ko lona mau ha-ka.
he kahu ke ano oia mea.
A ua hoolale aku i na mea a pu
e pono ai ka laua malihini.
A no ka wa pokole, ua lako na
mea a pau me ka hemahema ole.
A ua ike aku la oia i kekahi mau
kanaka elua e holo mai ana maluna
o ka waa a hiki i ka motu pohaku
aia nei e noho ana.
A ua pane ia aku iaia ka hualolelo
e keia mau kanaka e kau mai ana
maluna o ka waa e hoi iuka e noho
ai.
Ua ae aku la o Makanikeoe ia noi,
a oia kana i olelo mai ai, e hoi e
aku olua mamua, a mahope aku nei
au, aole paha olua e pae iuka ua hi-
ki mua au.
I loa no a pau keia mau olelo ana
ua hala mua aku la ke keiki enue o
Waipio.
Aia oia ke huipu ala me na kahu
maua mauka o ka aina, a ke hooko
mo ala ko waho ia loko, a ke hikikii
iho la ka ua o Eua iaia nei, ka ua
mea he ona o ka awa.
A na ia mea i hookaulua i kona
noho ana malaila, a hala ekolu la
Aia keia wahi ma Kaupipa kahi e
ku nei o ka hale waiho ukana o ka
Hui Mahele o Kipahulu, he Kuula
ia wahi na ka poe lawaia kahiko, a
oia no o S. Mahelona Kamakau ka
mea nona ia wahi me kona makua-
hine ke noho nei ma Honolulu nei.
A oia paha kau o umau iho la i
ka mea o keia lua a ka honu i ahai
ai ia Makanikeoe a me keia mau
mano, oia iho keia o Kaulaia ka
inoa o ua lua la, a o Koamahu a me
Kahuhu ka inoa o na mano kamaai-
na o Kipahulu, na laua i hookipa ia
Makanikeoe, elike me na mea i la
wa ia laua.
A mamui o ka hana lokomaikai
a na ha-ka o keia mau mano, ua
kubikubi aku o Makanikeoe i ke
kauwahi wai kupanaha loa maluna
o Mokupapa, kekahi uuku pohaku
palahalaha mawaho pono aku o ka
uapo o Kipahulu, kahi e ku nei o
Claudine.
He wahi puka uuku poepoe kahi

KAMAKAU PROP KAUPIPA KIPAHULU HE MOOLELO KAAO HAWAII NO LAUKAIEIE.

This article mentions
Kaupipa/Kaopipa, and it reads: "At
this place at Kaupipa is where the
warehouse of the Kipahulu Sugar Co.
stands, and there is a fishing shrine
there for the ancient fishermen, and S.
Mahelona Kamakau is the owner of
that place, with his mother who is
residing here in Honolulu." (Thanks
for the translation by Puakea
Nogelmeyer)

Printed November 23, 1894, in the
newspaper Ka Oiaio. In a serial
publication of a legend entitled "He
Moolelo Kaa o Hawaii no Laukaieie.
Ke kino Kamahao Iloko o ka Punohu
Ua-koko. Ke Kahulileol'a o ke
Kuluuamoe o na Pali o Waipio
Hawaii."—Papakilo Database-
kamakau-kaupipa_Page_2.tiff

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o puka mai ai o ka wai a kahi i ke
kai, e like me waiakakua, umuk-
ne nei o Manoa.

A oia kana makana i na kamaai
na nana i hookipa iaia.

A o ka lua o kana mea i haawi
aku ai, oia no ke kino maoli o ka
laau hana aloha, i kapaia kona
inoa o Aneekapuaahi.

A na kupono maoli no hoi kua
wahi wai i puka mai ai maloko o
ka pohaku i ka iuu ia e na maia.
Aia no ia wai ke kahi ala a hiki
i keia wa.

Mahope iho o ka hale ana iaia
he mau la ma Kipahulu me ka ho-

aa o kela mau kanna, e kali ala
maluna o ka wai.

Ua haka aku ia o Makanikeoe o
nana i kekahi lua ma ke kiowai o
Kahoopuapua, he wahi lele kawa
keia no na keiki kamaaina o Kipa-
hulu, a he wahi luana hoi no na
alii.

Aia maloko o keia lua kahi o no-
ho ai ka puih a me ka anae, a o ka
hola i ka subuhu ka mea e make
ai ka ia maloko o keia lua, a hiki
ma Kaluanoho ma kahi o ku nei
ka hale wihko ma Kipahulu.

Ua hele aku oia maluna o ka ai-
na e hiki ma ka puka o ke kau-
wahi ana i kapaia o Nawallama
elua, ua komo koke aku oia hooa
ma ka lua o Laka, mauka o Moku-
hali, a mailaila, aku oia a hiki ma
ka pali, kahi e puka ia ka wai o
Waiola.

A mai laila aku, hooa mauka o
kekahi ponua nui palabalaha i ulu
ia e na ano laau o ke kuahiwi, ua
kapaia kona inoa o Kanupa, ua ho-
aionia o ka poe hele kuahiwi i ka
puka keokeo o ke kai maluna o ke
kua o ua lua nei, i ole o poio ke-
kahi poe hele kuahiwi, a oia keka-
ni hana nanua o ka poe kahiko.

Mahope iho oia maua ana i
hiki hou aku ai oia maluna o ke
kuahiwi e pana aku ia ia Koolau,
na kahi o kela kiowai kaulana o
Waiale.

He wahi makaikai ia na ka poe
malihini.

A oia no hoi kekahi o na kiowai
hohonu loa ma ke kuahiwi.

K ua huli hoi hou mai o Maka-
nikeoe malalo o ka honua a hooa
makai o Kuloa.

Aia mauka mai o laila ka lua a
waiho nei na wai o Lakaawaheloa
a hiki i keia maua.

Wahi a ke Kipahulu poe kama-
aina, a he lua hoi i manao nui ia o
kekahi poe o ike pono.

A pela no ka manao o ke alii ka
Moi Kalakaua i make, a he mau
lua e ae no kekahi ma Kipahulu.

Nolaila, aia a hiki aku i ka hope-
na o keia moolelo, alaila, e hiki
hou aku ana kua e ka mea helu-
helu i na sina la nana ka makani
kaulana, he Kaili Aloha.

I keia wa a Makanikeoe o ike ala
i na mea a pau oia aia, ua hoonoe
koke aku oia no Pualu ka poe
keia o Kipahulu, me ka aia nana
keia mau hooalelo kaulana a Kua-
a i puih ia ai ka hale i ke shi ma
Lehoula ma Hana, Maui.

O Hana keia a ka ia iki.

Ka ia o Kama, ka ia o Lanakila.

Eia o Hana ia he aia au pehu.

Aia ma keia hele ana o ke keiki
huli honua o Hawaii, ua hiki aku
oia ma Hanakalo.

O ka lolo keia a kela keiki kaa-
oa o Kauai pana ai, oia o Pikoaka-
alala.

A hale keia wahi iaia mahope,
ua hiki aku oia ma kekahi lua, o
kekahi mano kamaia oia mau
pali a me na lae kakaai.

Oia o Kaneikokala kona inoa, he
mau makale, kapt keia, aole he
mau mea kino kanna, i pau i ka
mano ma keia wahi, he kapu loa i
keia mano.

Aia nae ia Makanikeoe i hiki aku
ai ma kona hale lua, aole ona mea
a ike mai i ka eue o Hawaii.

Aia oloko o kona lua ke noi ia
la, a ke lalama ia la kona mau au-
ao a pu.

Ua hooa aku oia ma ka ipuka o
keia lua mailoko aku o ke kai ma-
waena o ka pali o Ahao, a ua hiki
aku oia ma Kenewai, ma ka lae o
Pau ma Mulea, kahi o keia limu
make o ulu ala a hiki wale no i ke-
ia wa.

Ua hoakaka ka mea e kakau nei
i keia moolelo huli i na mea pohi-
hihi maloko o ke kakau mau Pau-
moku nei.

Nolaila, aole he olelo, i koe na ia
limu make.

Ia Makanikeoe ua keia wahi, ua
ike iho ia oia i kekahi lua e moe

ana kekahi puih.

Ua hakiho pono aku oia i kona
ano a hiki wale i ka manawa o ua
puih nei i hoi ai no na o ka aia
maia.

A oia kana i ukali aku ai a hiki
wale no i kona wahi nua e noho
ai.

A ma ia lua oia e hana ia ai o
kua mau hale, o Hana ka inoa
o keia puih.

Aia no keia lua ma hoi o ke ka-
hawai o Alaula, ke hamaia ia ko-
na wahi.

He kokoke loa i ke alanui keia
lua, e loa na ka ike i ke kamabele
se ninau i na kamassina o Kooli.

Ua hele hou aku o Makanikeoe a
hiki ma kahi o kela wahi kahiko
o Hana Luatia kona inoa, a no ke-
ia wahi keia inoa i kapaia ai ka
inoa o Hana a hiki i keia manawa.

Aia ka hooai ia ana o ka Apa-
na o Kahikini, Kape, Kipahulu
a me Koolau, na kapaia ka Apau
o Hana.

November 23, 1894 article, in the newspaper *Ka Oiaio*

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Another newspaper account records that the son, Samuel Mahelona Kamakau was building or rebuilding the church in Kipahulu. But it is not known which church, the Kipahulu Congregational Church or Catholic St. Paul's Roman Catholic Church.

Was Abigalia Ellen Hakaponi "Poni" Kamakau a Kamakau sister to Samuel Mahelona or did the Kamakau family *hanai* her? (A daughter, Kukelani Ka'a'apookalani was declared an only daughter in 1862, but a genealogy chart produced in 1973 shows "Abigail" as a daughter. (p. 115) She probably moved with S.M. and Hainakolo Kamakau to Honolulu and Kahehuna.

Kahehuna

The mid-19th century saw many individuals moving from rural island locations to increasingly-urban Honolulu. The head of the household, historian Samuel Manaiakalani Kamakau, and his extended family moved to Honolulu in ca. 1862. Apparently the Kahehuna neighborhood located in Honolulu, in the Lower Punchbowl area, near Royal School and Emma Street, was the zone where a cluster of Hawaiian families of means resided. The Kamakau residences at 1557 and 1559 Emma Street in Kahehuna was also near Noa Aluli's law offices on Emma Street and the Aluli family home on Kamamalu Street. On Yuklin Aluli's mother's side of the family, her ancestress, Lipeka (whose daughters were Kaiulani's half-sisters), owned a residence where the Pacific Club is now located. (Yuklin Aluli, correspondence, 2017).

These Kamakau family deaths are recorded at Kahehuna:

1876–Samuel Manaiakalani Kamakau died at his home in Kahehuna.

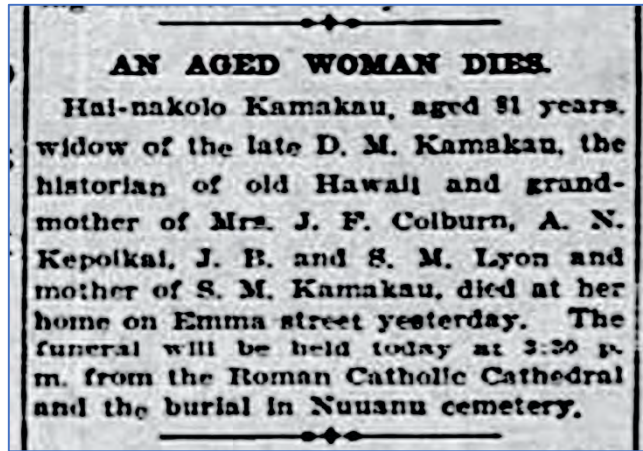
1884–Ellen died in Kahehuna

1897–Julia M. Kamakau also died in Kahehuna. (b. September 16, 1887 [in Kaumakapili, Honolulu near the intersection of Smith and Beretania]-d. May 9, 1897 [at Kahehuna]). (Was Julia the historian's granddaughter? Was she a daughter from Samuel Mahelona Kamakau's (not Ellen's) marriage? Julia's grave site is located in the Kamakau curbed-compound in the Roman Catholic Cemetery on King Street. Research suggests that gravesites for Ellen and Noa Kepoikai are also there.

1905–Hainakolo Kamakau died in Kahehuna

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1905 06 14 *Pacific Commercial Advertiser*. p. 9 c. 2.

N. Kepoikai (1832-1881)

Maui



Noa Kepoikai Headstone

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The intersection of Noa Kepoikai and historian Kamakau, by way of the brother-sister family connections (Kaleimakalii and Hainakolo) was likely on Maui and possibly in Kipahulu Maui (though also in Wailuku and Lahaina). Both men worked in the government, in law enforcement and the judiciary. This was before the Kamakaus moved to Honolulu.

Noa Kepoikai, Yuklin Aluli's great-great grandfather, was a descendant of the chief Naihe. When Noa Kepoikai married Kaunuhiolelo/Kaunuhi, the daughter of Kaleimakalii and the niece of Hainakolo Kamakau (and Yuklin Aluli's great great grandmother), he joined the Halualani-Papaikaniau Maui family line. (Kaleimakalii, Hainakolo's brother, had received LCA 4510B as recorded in the *Buke Mahele* for an award in the Alaemai or Aleamai Ahupua'a, in addition to Kalena Ahupua'a 'Ili Kumuula.) Noa and Kaunuhi Kepoikai lived in Wailuku as did their children, George Kapeau, Sarai/Sarah Kalai and Auwae Noa Kepoikai. Sarah married John T. Aluli, and son Noa Aluli moved to Honolulu and set up his attorney's office on Emma Street in the Kahehuna and purchased his residence just *mauka* of Kahehuna in Auwaiolimu.

Noa Kepoikai's grave might have been unmarked and the family assumed it was on Maui. A possible grave site, according to family legend, is that he was buried in the sand hills of Wailuku. (But he might also have been buried on family land in Kipahulu in LCA 4510B.) The fact that Kepoikai's headstone says "In Memory of" suggests that the Roman Catholic Cemetery on King Street was not his actual resting place, but rather a site honoring Kepoikai's life in stone.

Noa Kepoikai died in 1881, and his Second Circuit Probate 1168 file is at the Hawai'i State Archives. An inventory of his estate listed the fishing rights to Kahului Harbor, nets, champagne, and a debt owed to David Crowningburg, etc.). When something passes through probate there is not a deed, and so Noa Kepoikai's estate passed to his three children, George Kepoikai (who died on Molokai), A.N. Kepoikai (who died on Maui and whose wife Rose survived him by some 40 years and his portion of the Kepoikai Estate was sold after her death, died on Maui). Sarai/Sarah Kalai Aluli's (Yuklin Aluli's great grandmother) interest was inherited by Yuklin Aluli's grandfather Noa Aluli (who died on O'ahu), and his brothers William and Webster.

The connection of the families continued at Kahehuna. Hainakolo Kamakau's great grand-nephew was Auwae Noa Kepoikai living in Wailuku. Samuel Mahelona Kamakau (the son) was living with his mother at Emma Street. In the 1930s John T. Aluli was practicing law on Emma Street and had his residence in Auwaiolimu, just *mauka* of Kahehuna. It is likely that these family members traveled between their lands on Maui and O'ahu.

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The Japanese Headstone

Matajuro Arakawa (d. 1876)

The Matajuro Arakawa Japanese Stone



Above: top portion of Headstone #3 which fits with the Headstone #3; Below: Headstone #3 excavated, but not recovered (as removal might have compromised the concrete slab above). It was found 22 inches below grade in Stratum 3.

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Matajuro Arakawa (荒川又十郎) of HIMS *Tsukuba* (筑波) died and was buried in what became the first Japanese Navy cemetery outside Japan. By 1899, 17 IJN sailors were buried there. In 1876, Arakawa was an (Apprentice?) Seaman Second Class (二等若水夫 *nitou waka suifu* '2-class young waterman'). The right column on the Arakawa Makiki replacement tombstone reads Dai Nippon Kaigun 'Imperial Japanese Navy.' Special thanks to Joel Bradshaw for his excellent linguistic expertise and for connecting our Mō'ili'ili Japanese inadvertent-find headstone to the replica located here at the Makiki Cemetery.



Located in the Makiki Cemetery this is Arakawa's second or possibly third replacement stone. It is 33 inches tall (add a few more inches for slot pedestal placement) 14 inches wide and 1.25 inches thick (the thinness of this marble makes it very fragile). The original Arakawa stone is about 2+ inches thick.

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Arakawa's stone is the earliest date among the 17 Meiji-era Imperial Japanese Navy sailors who died in the Pacific between 1876 and 1899 are also buried in the Makiki Cemetery.

In the same Makiki Cemetery enclosure is a memorial to the *gannemono* pioneers. Many of the earliest Japanese immigrants to Hawai'i in 1868 and 1886, many of whom never married and thus left few *Nisei*, were interred in Makiki Cemetery which thus came to include the first Japanese cemetery in Hawai'i.



This 1927 memorial also in the Japanese enclosure in the Makiki Cemetery is dedicated to the pioneering immigrants of 1868. It was before the picture-bride era.

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The Blank Stone



Headstone #4 partially excavated and blank on both sides.

Sentaro Otsubo (1872-1952)



OTSUBO-NATSUYAMA FAMILY ALBUM/BOOK

Otsubo family: front, seated: left, Yone Otsubo; right, daughter Yakue Otsubo; rear, standing Sentaro Otsubo. (1924)

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Examples of Otsubo's carvings:



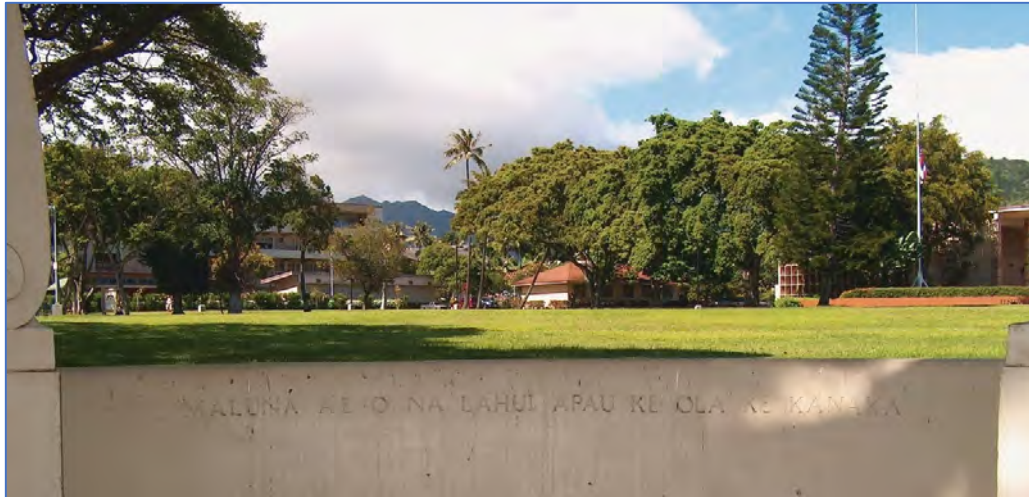
Left: the headstone of Asakichi and Moyo Inouye, grandparents of the late Senator Daniel K. Inouye. This granite stone was carved by Otsubo, a long-time friend of the Inouye family. This is in the style of Japanese American headstones of the first half of the twentieth century. This and dozens of monuments carved by Otsubo can be found in the Mō'ili'ili Japanese Cemetery, and can be located by using the book by Harriet Natsuyama called, *Carved in Stone*. Right: Otsubo-Natsuyama family *haka* (grave) also carved by Otsubo is located in the Mō'ili'ili Japanese Cemetery.

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University of Hawai'i Founders Gate carving by Otsubo. The inscription states: *Maluna a'e o nā lāhui āpau ke ola ke kānaka*—"Above all nations is humanity." (The Founders Gate was created by Ralph Fishborne in 1933.)

Community Ties and This Gold Medal



OTSUBO-NATSUYAMA FAMILY COLLECTION

In 1924 Sentaro Otsubo was awarded this gold coin for extra ordinary community service. Soon after moving into his home, Otsubo started going through the neighborhood door-to-door with his *lampu* at night to solicit funds and support to establish a permanent Japanese language school in Mō'ili'ili. The school eventually became the Mō'ili'ili Community Center which flourishes to this day.

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"The inscribed side reads: Hawaii Territory of U.S.A (米領-*Bei-ryo-Bei* [rice] stands for U.S.A). To Mr. Sentaro Otsubo (unknown kanji) Otsubo Sentaro Shi [means person or Mister]. This unknown kanji is something positive, like an honorific or praise). Mō'ili'ili (in katakana-Mo-i-ri-ri) Japanese Language School.

The reverse side shows flags of U.S. and Japan, and the inscription, Japanese Language School (*Nihon-go Gakko*-note use of old kanji for *Gak-ko* instead of 学校) Public Recognition [Award] (表彰 *Hyo-sho*) 1924".

Also, as the Otsubo-Natsuyamas lived next door to the Kumalaes, Harriet remembered that she and her grandmother, Yone, were once invited to a luau on the Kumalae property and "They had an *imu* (fire pit) for the kalua pig. The best kalua I ever had!" (Harriet Natsuyama, Interview, 2017) This indicates that Mō'ili'ili was a multi-ethnic neighborhood in the 1920s-1940s, and still is today.

Conclusion

Criterion A: This document presents the historic context of the Mō'ili'ili 944 Coolidge Street property: the pavement structure made up of 19th century objects/artifacts comprising the pavement, the property itself, the property transfers, and the purchase by Sentaro Otsubo. The property has historic integrity though no historical remains can be seen on the site today. This setting constitutes an historical property, and the historical adaptive reuse of even-older artifacts.

The 944 Coolidge Street property may be one of an intact collection of below-grade materials related to mid-20th century stone carving, as well as to mid-19th century object carving and grave objects. The structure and objects connected with it represent both these time periods. Within the excavated area there were no intrusive or inconsistent artifacts in the site, and no signs of disruptive human activity.

Sentaro Otsubo was a stone carver skilled in both Japanese and English carving and was much appreciated by the community. He unwittingly, and without intentional malice, reused historical 19th century artifacts so that he could better carry out his professional activities at his workshop. De-sanctified headstones were delivered to the Otsubo Monument Works on the 944 Coolidge Street property. Otsubo laid the stones for the foot-safe pavement needed for his professional stone carving activities in his workshop. History is recorded on Otsubo's many monuments which originated at this site. He commemorated the lives of immigrant Issei who had arrived starting in 1885, and are remembered in Hawaii's cemeteries. He made the *Jizo* monument that overlooks the sea at Bamboo Ridge to protect those who fish there. And his life intersected with higher education as he participated in making the gateway to the University of Hawai'i, with inspirational and aspirational carvings for future students, one of whom was his granddaughter Harriet Natsuyama.

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It is also the history of prominent Hawaiian families intertwined with the marble headstones of A. Ellen P. Kamakau and N. (Noa) Kepoikai. It shows the inter-connections of Hawaiian families moving between the islands of Maui and O'ahu in the 19th and early 20th centuries.

Additionally, it is the history, commemorated in Hawai'i, of Japanese seamen who lost their lives at sea or on the foreign soil of Hawai'i. This included the first Japanese Navy man, Matajuro Arakawa, whose broken gravestone was discovered on the Otsubo site, and whose new gravestone stands in a place of honor in Makiki Cemetery.

The period of significance began in 1924 when Otsubo purchased the property identified as 944 Coolidge Street and continued to his death in 1952. This period of significance saw the Otsubo Monument Works recognized as an important center of industry and cultural activity in the Mō'ili'ili and wider Honolulu community.

The level of significance for the Otsubo Monument Works is at the important locally historical level as representative of the development of Mō'ili'ili Town. It is significant at the local level under Criterion A (History/Events), and is eligible for the Hawai'i and National Registers of Historic Places. The Otsubo Monument Works property is locally significant under National Register Criteria of Historic Functions "Industry/Processing/manufacturing facility." The site is a well-documented local example of a commercial manufacturing site with pavement structure comprising adaptive reused de-sanctified headstones (two Hawaiian and one Japanese), and the property meets the Registration Requirements established for the Commercial property type.

Further, the level of significance ties the culture of western commemoration of cemetery marble headstones and the in-migration of Hawaiian families between Maui and Honolulu and the first Japanese sailors to land on these Hawaiian shores as established in Hawai'i.

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Previous documentation on file (NPS):

_____ preliminary determination of individual listing (36 CFR 67) has been requested

Otsubo Monument Works
Name of Property

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3. Latitude: Longitude:

4. Latitude: Longitude:

Or

UTM References

Datum (indicated on USGS map):

☐ NAD 1927 or ☒ NAD 1983

1. Zone: 4Q Easting: 621885.95 m E Northing: 2364998.54 m N

2. Zone: Easting: Northing:

3. Zone: Easting: Northing:

4. Zone: Easting : Northing:

Verbal Boundary Description (Describe the boundaries of the property.)

Starting from, northwest corner of the parcel and proceeding clockwise 20 feet on the *mauka* side x 28.28 feet on the hypotenuse of the radial curve at Coolidge and King Streets x 65 feet on the Diamond Head side x 40 feet on the *makai* side x 85 feet on the 'Ewa side, and back to the point of origin.

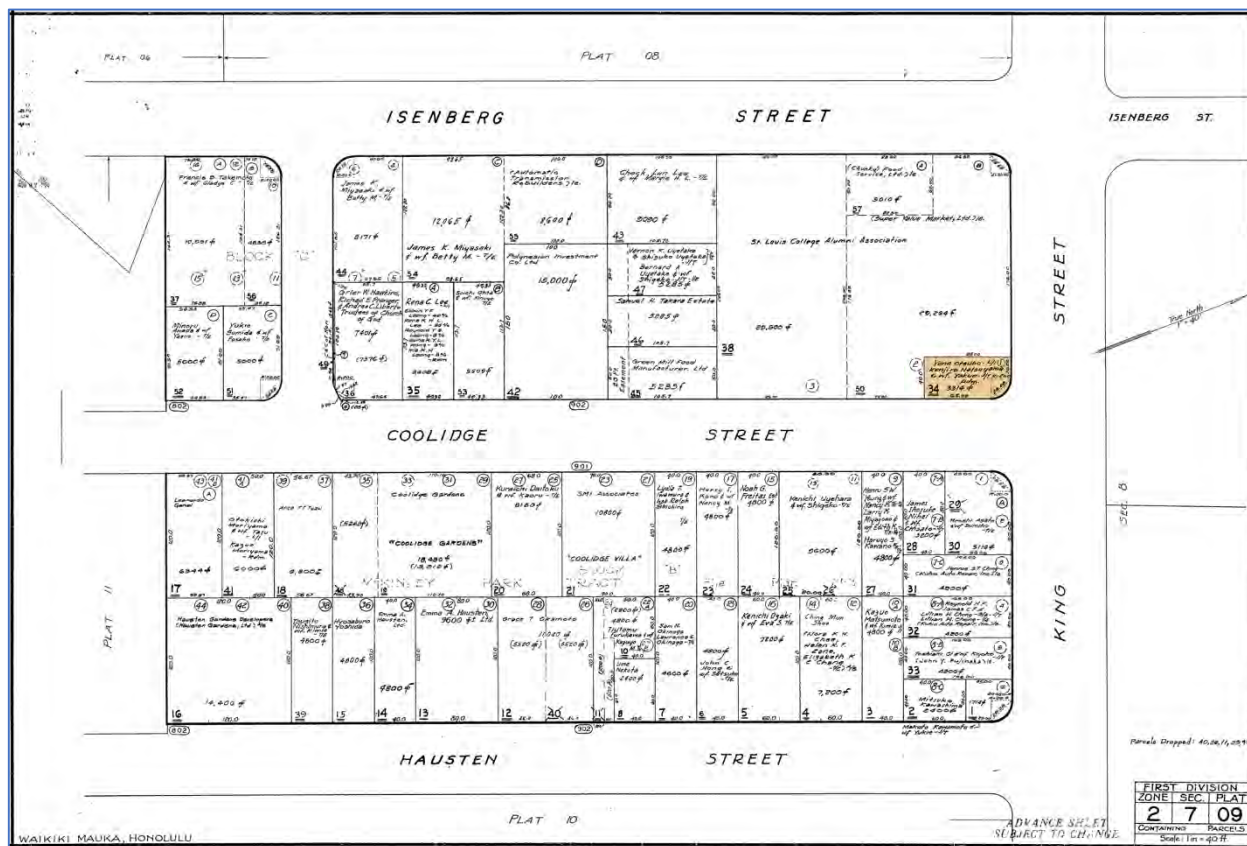
Boundary Justification (Explain why the boundaries were selected.)

The historic property boundaries remained the same since 1923, but in 1954 the Honolulu City and County King Street widening project took 15 feet from the King Street *mauka* boundary and a large (approximately 20 feet) curved radius at the Coolidge and King Streets corner.

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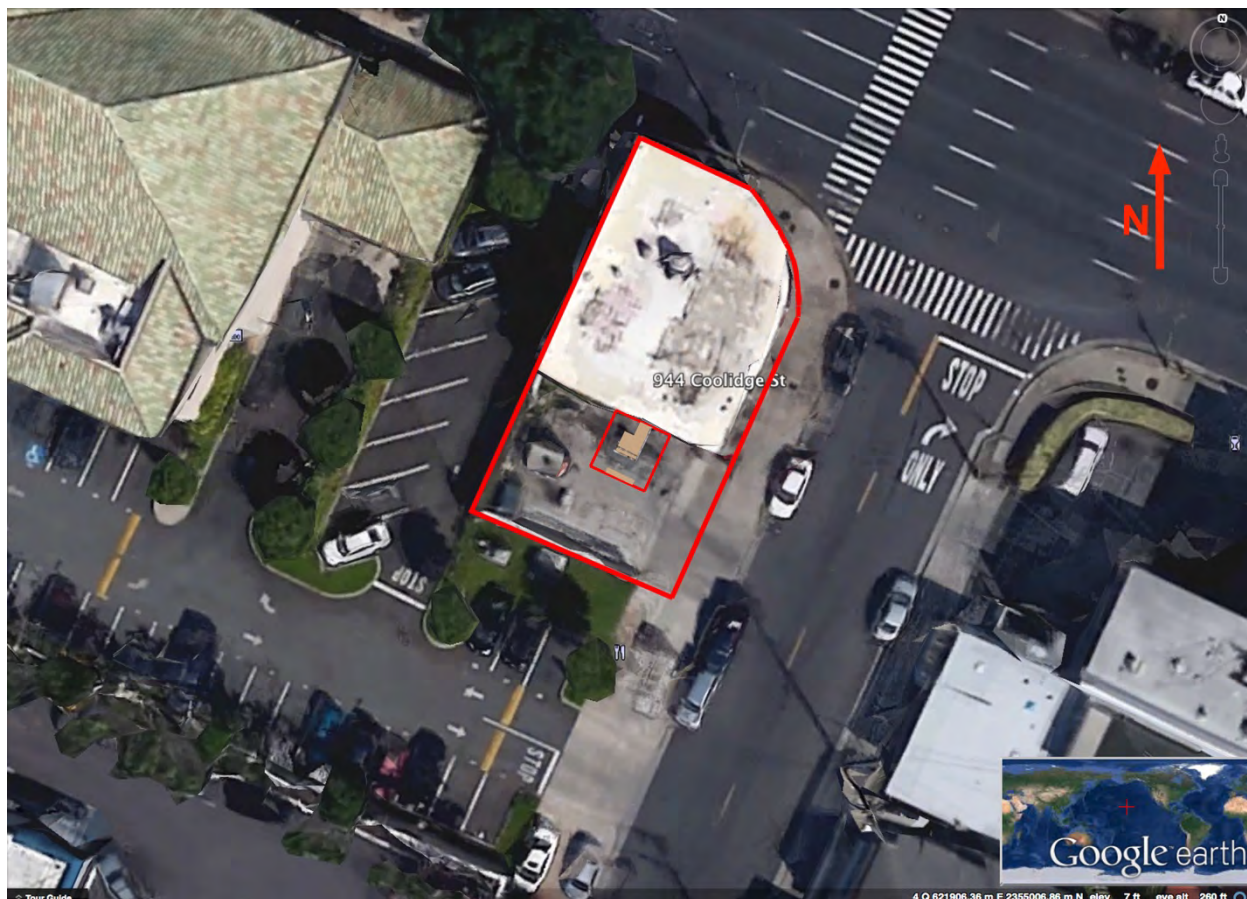
Honolulu, Hawai'i
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Tax Map Key 2-7-09: 034



Otsubo Monument Works
Name of Property

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2017 Google earth site of excavation. Tan area is the excavated trench and pit.

3. Form Prepared By

name/title: Laura Ruby MA and MFA
organization: _____
street & number: 509 University Ave #902
city or town: Honolulu state: Hawai'i zip code: 96826
e-mail: lruby@hawaii.edu
telephone: 808 366-0847
date: January 14, 2020

Otsubo Monument Works
Name of Property

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Additional Documentation

Submit the following items with the completed form:

- **Maps:** A **USGS map** or equivalent (7.5 or 15 minute series) indicating the property's location.
- **Sketch map** for historic districts and properties having large acreage or numerous resources. Key all photographs to this map.
- **Additional items:** (Check with the SHPO, TPO, or FPO for any additional items.)

Ownership

Harriet Natsuyama (Kenjiro Natsuyama Trust Estate and Yakue Natsuyama Trust Estate)
944 Coolidge Street, Honolulu, HI 96826

MAPS– MOILIILI–MAUI–HONOLULU

OTSUBO MONUMENT WORKS PROPERTY MAP TABLE

1	1987	O'ahu Pre- <i>Māhele Moku</i> and <i>Ahupua'a</i> map prepared by Hawaiian Studies Institute Kamehameha Schools.
2	1998	USGS 24000 Honolulu Quad showing a portion of the Mō'ili'ili area demarked in red.
3	1998	USGS Honolulu Quad locating the 944 Coolidge Street property demarked in red.
4	2017	Honolulu, HI 96826–locating the 944 Coolidge Street property on Google Map outlined in red.
5	2017	Honolulu, HI 96826–locating the 944 Coolidge Street property and the approximate site of the inadvertent archeological finds on Google Map outlined in red. Tan indicates trench and pit excavation.
		Historic Mō'ili'ili Maps
6	1881	Historic Hawaiian Government Survey Waikīkī map, S.E. Bishop, surveyor-cartographer–showing a portion of the Waikīkī Waena Mō'ili'ili area. 944 Coolidge Street area demarked in red.

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7	1901	Historic map showing a Portion of Kapa'akea Waikīkī, O'ahu, Arthur C. Alexander, surveyor-cartographer. 944 Coolidge Street area demarked in red.
8	Ca. Post 1926	Historic Sanborn Fire Insurance map showing the 944 Coolidge Street (Mirikitani Street) property demarked in red.
9	Ca. Post-post 1926	Historic Sanborn Fire Insurance map showing the 944 Coolidge Street property demarked in red.
10	1932	Historic Tax Map Key 2-7-09: 034 map with 944 Coolidge Street property in orange.
		Historic Kaopipa–Kīpahulu–Kaupō Maps
11	1881-84	Historic Kīpahulu and Kaupō Maui Reg1782WIDE, Government Survey Office 1881-84, W.D. Alexander and E.D. Baldwin, surveyors-cartographers, showing Kaopipa area in the blue rectangle.
12	1894	Historic Reg1115WIDEtracing map of Kīpahulu and East Kaupō, Maui locale demarking Kaopipa (on this map spelled Kaapipa) point and wharf in blue, Catholic church in green, protestant Congregational churches in red, schools in purple, and the Kīpahulu mill in brown.
13	1894	Historic Reg1115WIDEtracing map detail of Kaopipa in blue.
		Historic Kahehuna and Kewalo (Honolulu) Maps
14	1912	Historic Honolulu Town fire map and overlays of other maps showing the Kahehuna neighborhood demarked in red and Kewalo area in green.
15	1882	Historic Reg1072 Kewalo Kai map showing the Kamakau purchase area as demarked in green on this map and as well as on map 15. The J. Booth Estate became the Ward Estate located on the <i>makai</i> side of King Street opposite Thomas Square. The Kewalo location was known as "The Plains"—a largely open area with rice fields and swamp, as well as ponds. This map was likely drawn before Kamakau's death (1876), but before the newer Monsarrat survey of 1883 (15). It is very likely that this is the Samuel Manaiākalani Kamakau, historian, but at this time there we have found no Bureau of Conveyances numbers to corroborate this information. Kamakau's wife, and or son, Samuel Mahelona Kamakau, may have sold the property to the Ward family.

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16	1883	Historic Old Plantation, map Reg1075WIDEtracing showing property owned by Samuel Manaiākalani and Sarah Hainakolo Kamakau (historical maps often retain the names of earlier property owners, or possibly this is his heir, son, Samuel Mahelona Kamakau and wife) in green in the Kewalo Thomas Square area or "The Plains," M.D. Monsarrat, surveyor. It appears that this property surrounds but does not include a pond. The Roman Catholic cemetery is 'Ewa on King Street.
17	1893	Historic Fort and School South map Reg1714, Walter E. Wall, surveyor. Kahehuna Land Commission Awards are in green. The red line is the 'Ewa "boundary" of Kahehuna.
18	1906	Dakin Fire Insurance map 77-239 of Emma Street near School Street, Kahehuna, Honolulu where both Kamakaus and Kepoikais either lived or worked.

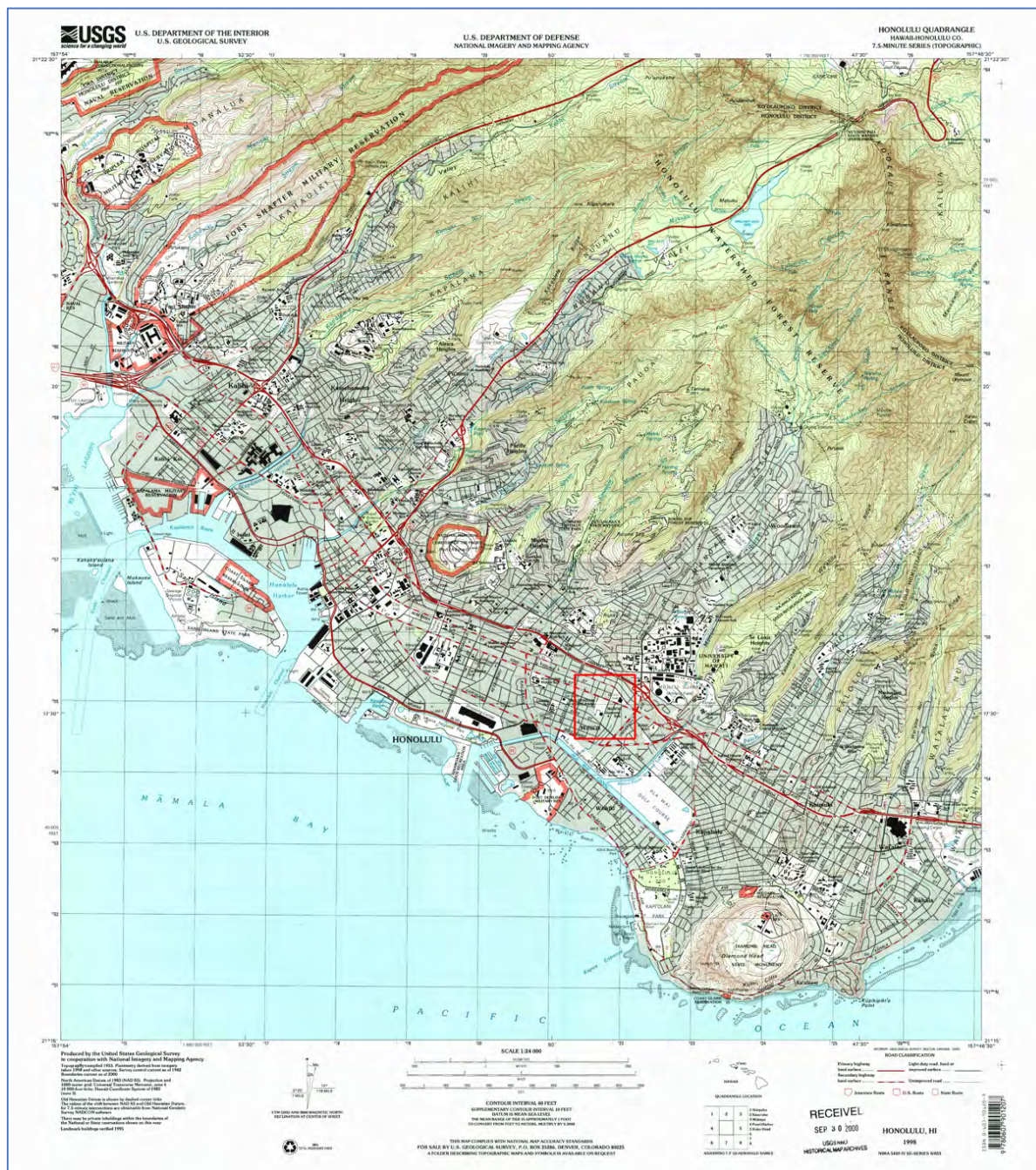
Name of Property

- [illegible]

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Name of Property

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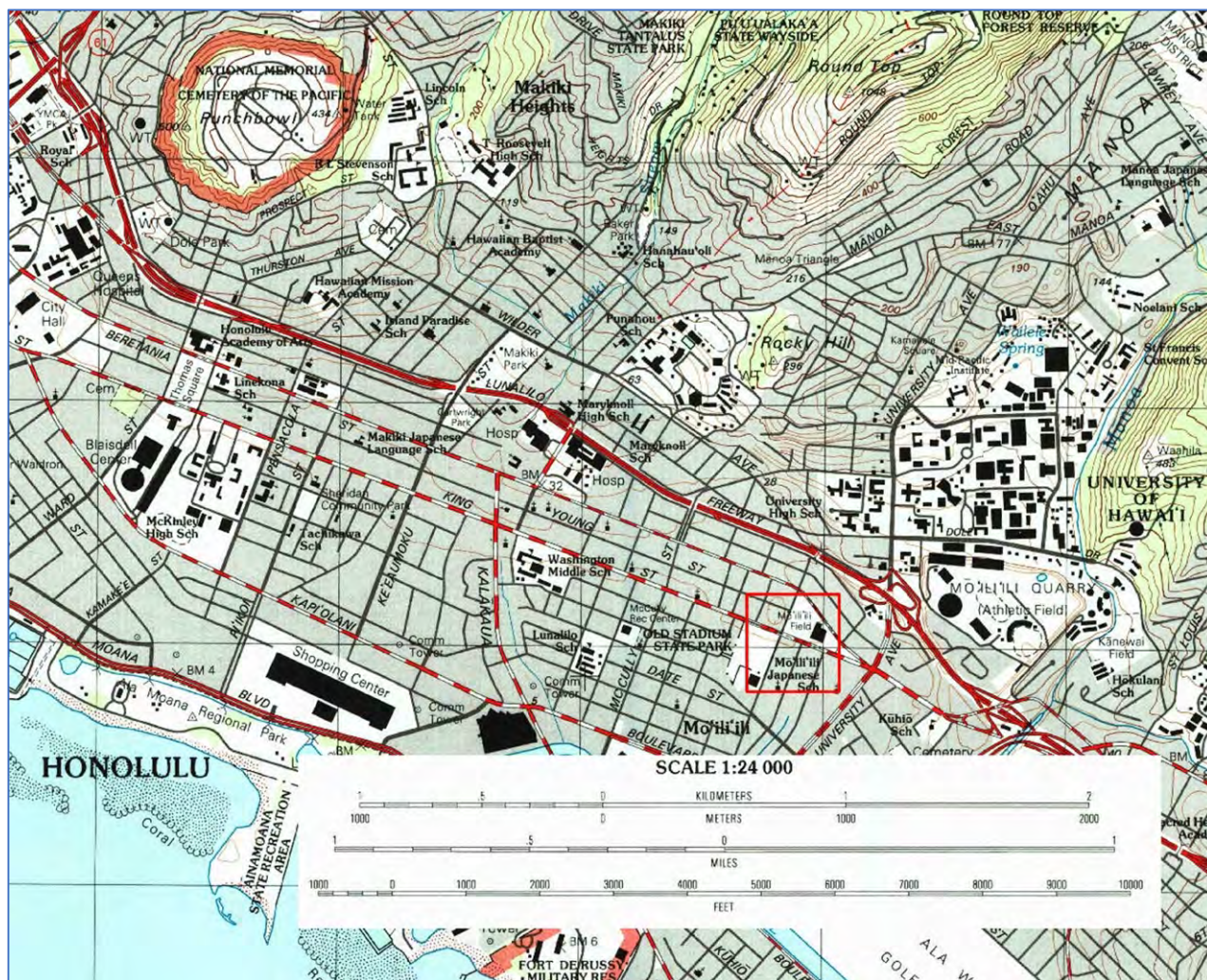
2. 1998 USGS 24000 Honolulu Quad showing a portion of the Mō'ili'ili area demarked in red.



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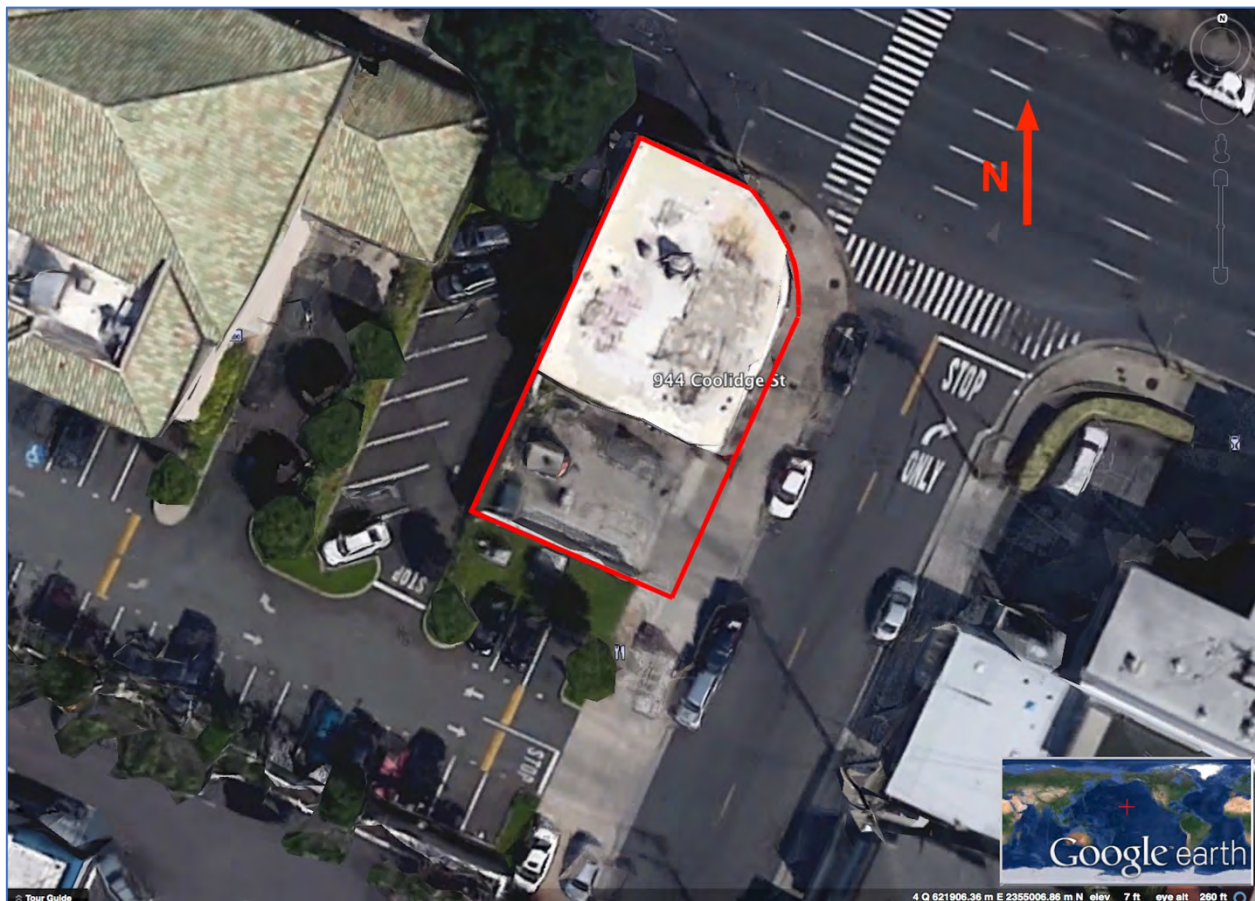
3. 1998 USGS Honolulu Quad locating the 944 Coolidge Street property demarked in red.



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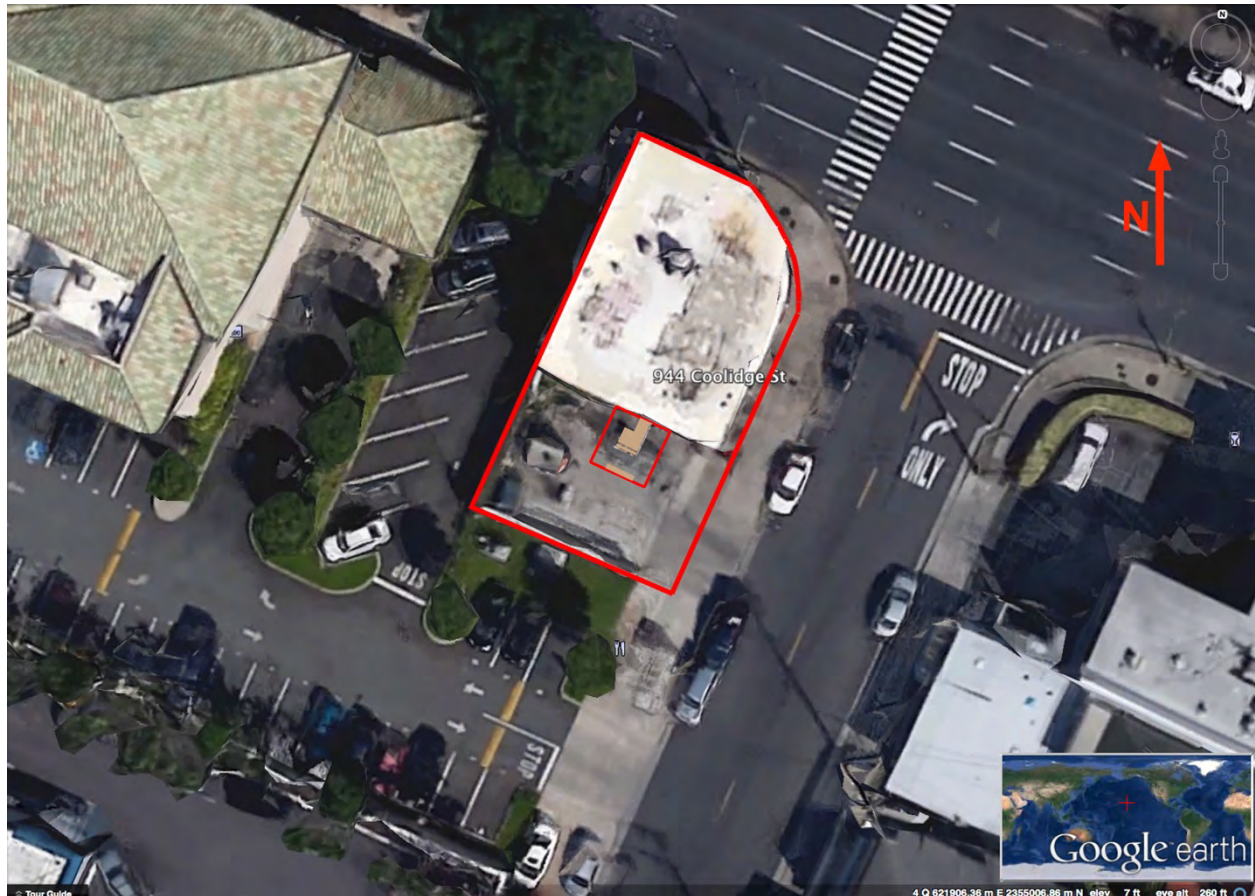
4. 2017 Honolulu, HI 96826—locating the 944 Coolidge Street property on Google Map outlined in red.



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5. 2017 Honolulu, HI 96826—locating the 944 Coolidge Street property and the approximate site of the inadvertent archeological finds on Google Map outlined in red. Tan indicates trench and pit excavation.



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5a. (detail)



Otsubo Monument Works

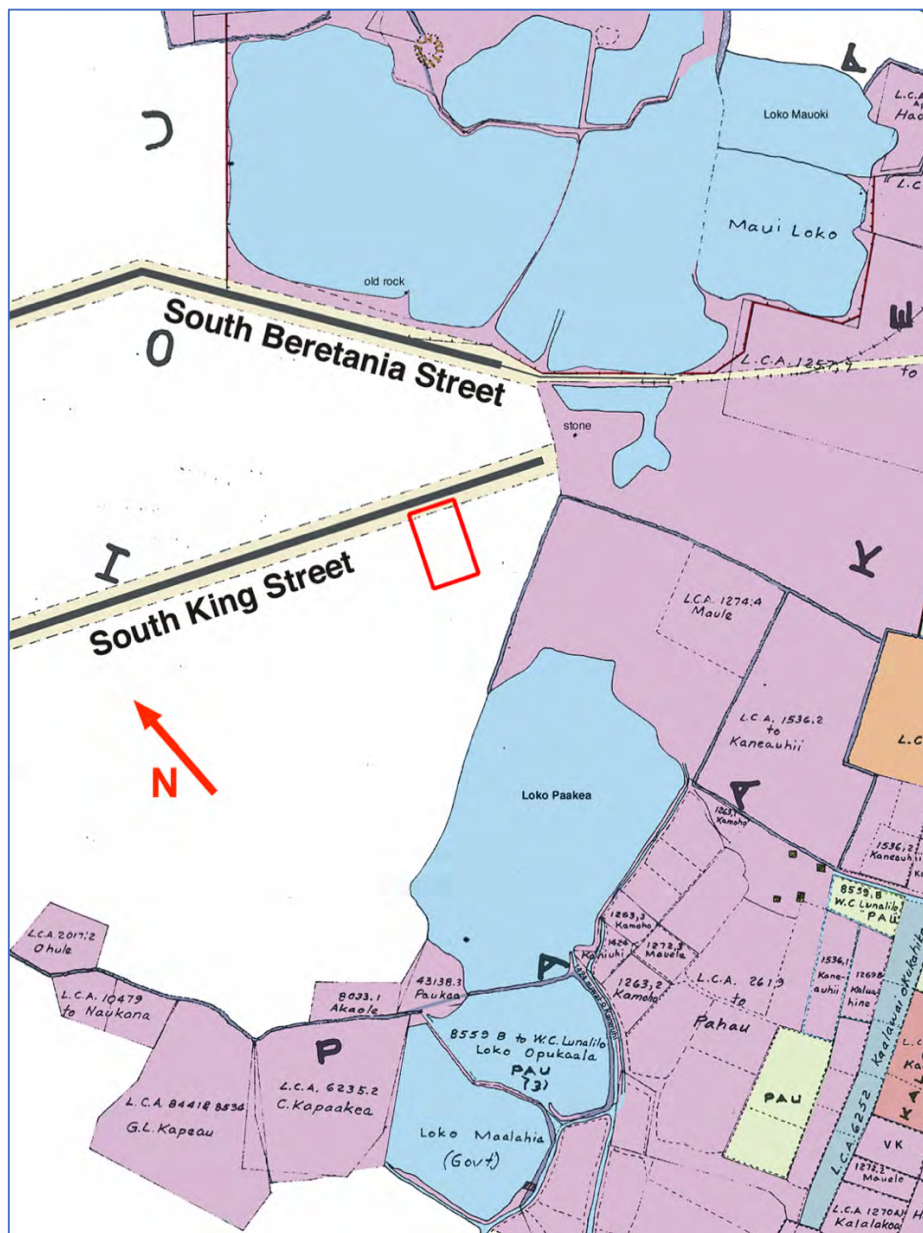
Name of Property

Honolulu, Hawai'i

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Historic Mō‘ili‘ili Maps

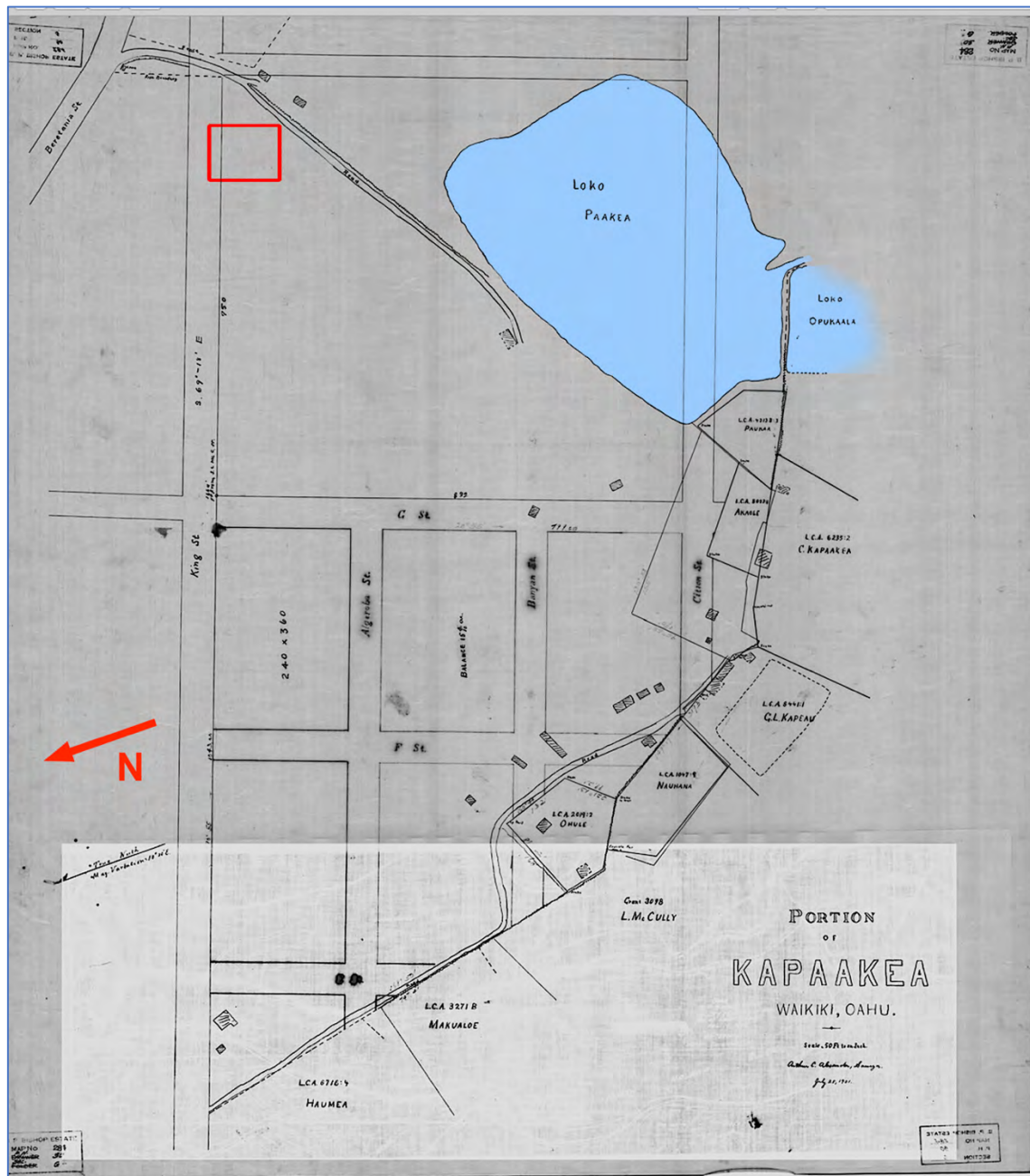
6. 1881 Historic Hawaiian Government Survey Waikīkī map, S.E. Bishop, surveyor-cartographer—showing a portion of the Waikīkī Waena Mō‘ili‘ili area. 944 Coolidge Street area demarked in red.



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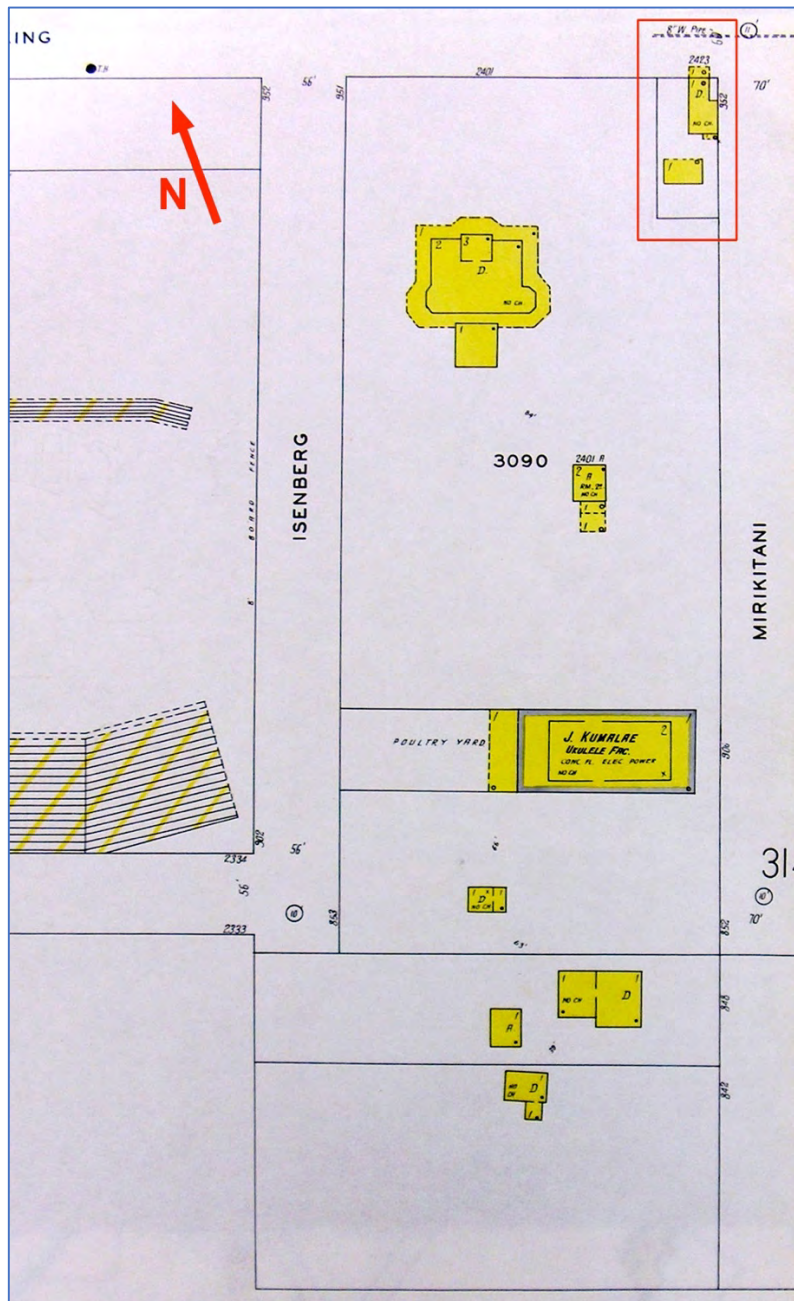
7. 1901 Historic map showing a Portion of Kapa'akea Waikiki, O'ahu, Arthur C. Alexander, surveyor-cartographer. 944 Coolidge Street area demarked in red.



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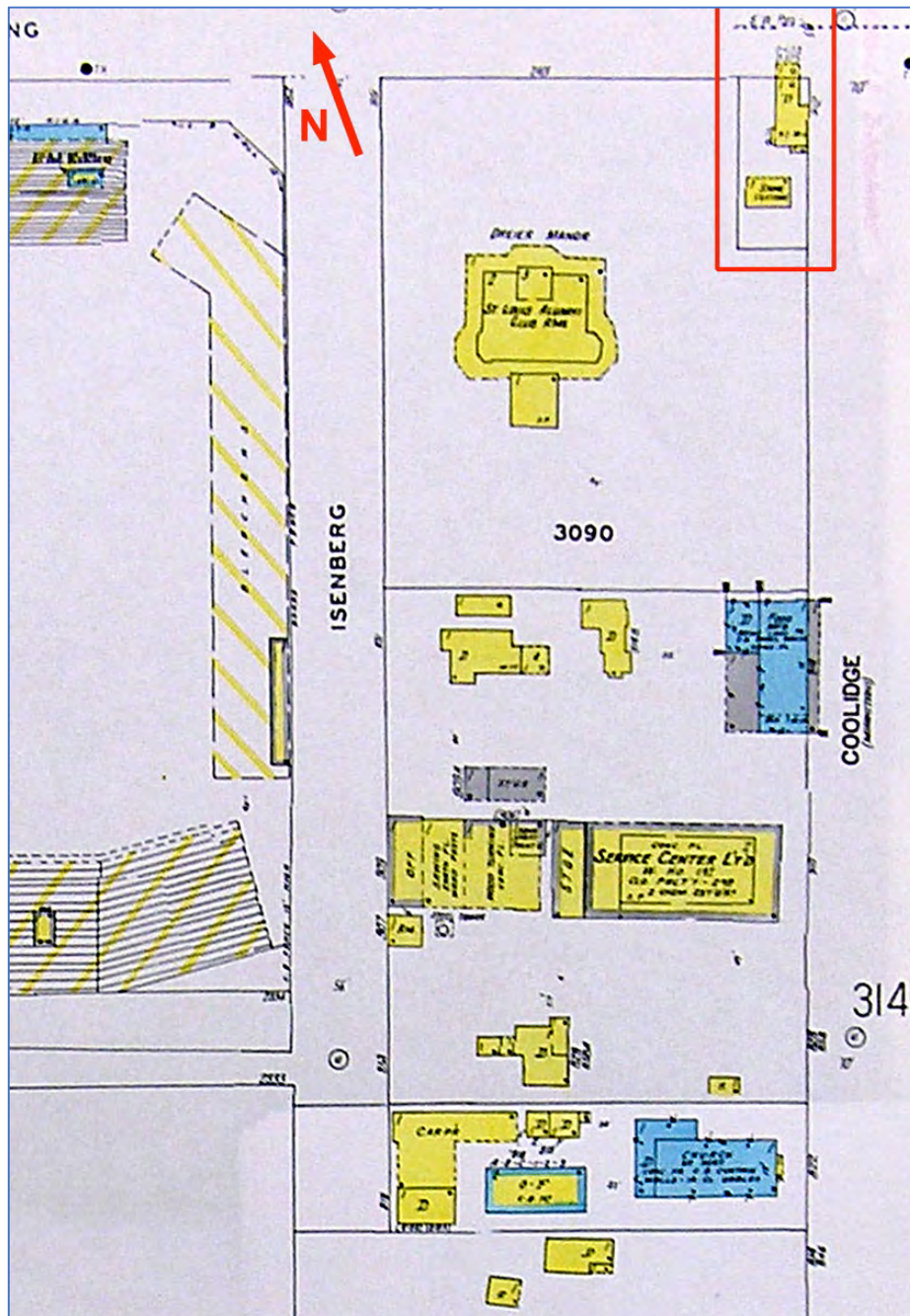
8. Ca. Post 1926 Historic Sanborn Fire Insurance map showing the 944 Coolidge Street (Mirikitani Street) property demarked in red.



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9. Ca Post-post 1926 Historic Sanborn Fire Insurance map showing the 944 Coolidge Street property demarked in red.

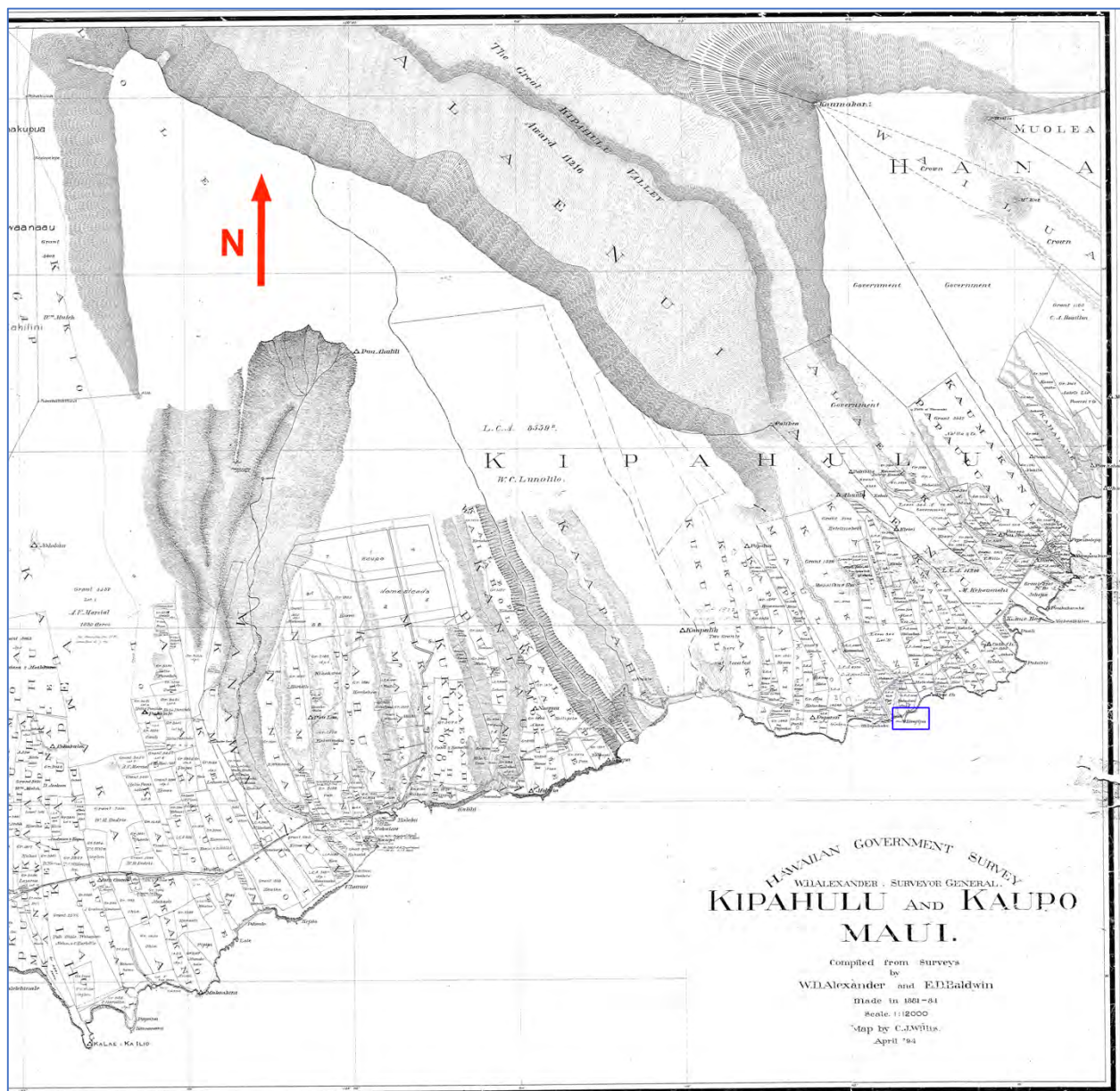


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Historic Kaopipa–Kīpahulu–Kaupō Maui Maps

11. 1894 Historic Kīpahulu and Kaupō Maui Reg1782WIDE, Government Survey Office 1881-84, W.D. Alexander and E.D. Baldwin, surveyors-cartographers, showing Kaopipa area in the blue rectangle.



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12. 1894 Historic Reg 1115 Widetracing map of Kīpahulu and East Kaupō, Maui locale demarking Kaopipa (on this map spelled Kaapipa) point and wharf in blue, Catholic church in green, protestant Congregational churches in red, schools in purple, and the Kīpahulu mill in brown.



Name of Property

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13. 1894 Historic Reg1115WIDEtracing map detail of Kaopipa in blue.

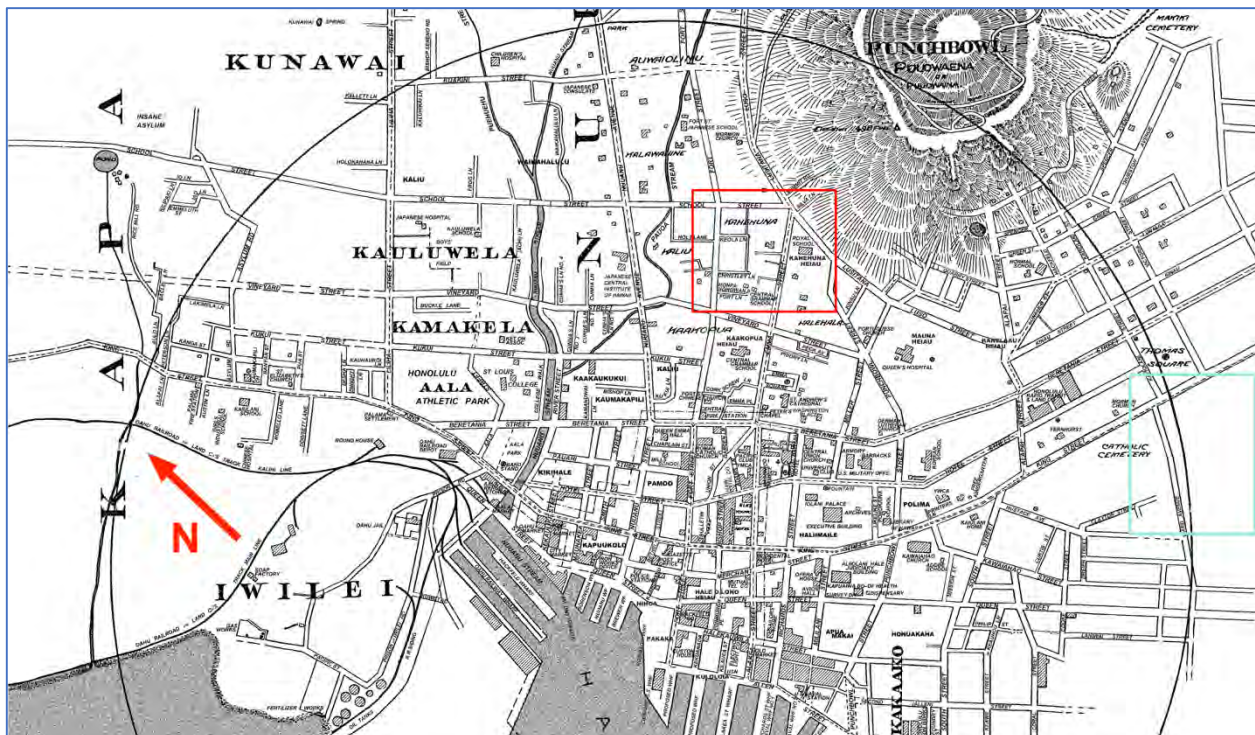


Name of Property

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Historic Kahehuna and Kewalo (Honolulu) Maps

14. 1912 Historic Honolulu Town fire map and overlays of other maps showing the Kahehuna neighborhood demarked in red and Kewalo area in green.



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15.1882 Historic Reg1072 Kewalo Kai map showing the Kamakau purchase area as demarked in green on this map and as well as on map 1655. The J. Booth Estate became the Ward Estate located on the *makai* side of King Street opposite Thomas Square. The Kewalo location was known as "The Plains"—a largely open area with rice fields and swamp, as well as ponds. This map was likely drawn before Kamakau's death (1876), but before the newer Monsarrat survey of 1883 (15). It is very likely that this is the Samuel Manaiākalani Kamakau, historian, but at this time there we have found no Bureau of Conveyances numbers to corroborate this information. Kamakau's wife, and or son, Samuel Mahelona Kamakau, may have sold the property to the Ward family.



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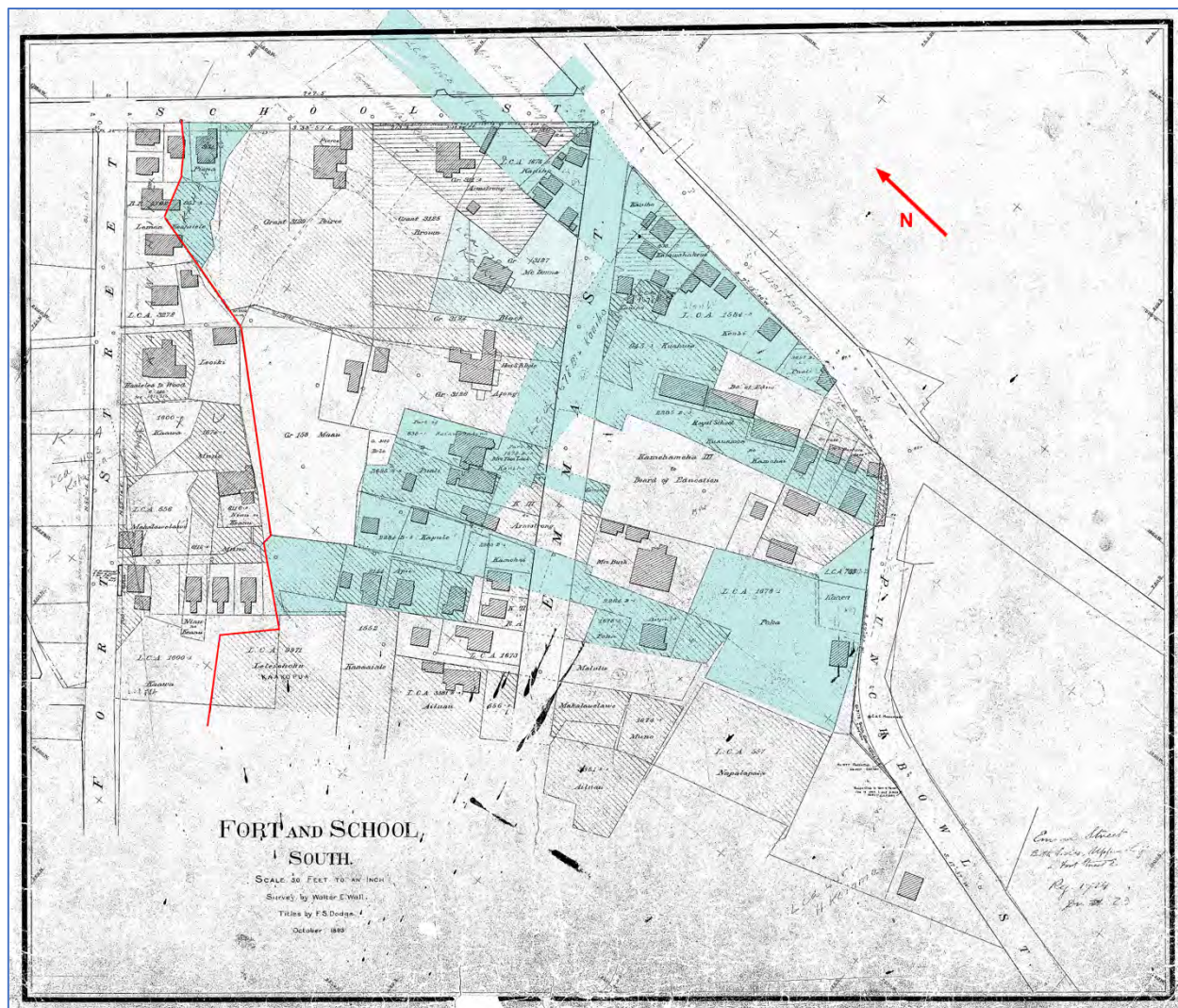
16. 1883 Historic Old Plantation, map Reg1075WIDEtracing showing property owned by Samuel Manaiākalani and Sarah Hainakolo Kamakau (historical maps often retain the names of earlier property owners, or possibly this is his heir, son, Samuel Mahelona Kamakau and wife) in green in the Kewalo Thomas Square area or "The Plains," M.D. Monsarrat, surveyor. It appears that this property surrounds but does not include a pond. The Roman Catholic cemetery is 'Ewa on King Street.



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17. 1893 Historic Fort and School South map Reg1714, Walter E. Wall, surveyor. Kahehuna Land Commission Awards are in green. The red line is the 'Ewa "boundary" of Kahehuna.



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18. 1906 Dakin Fire Insurance map 77-239 of Emma Street near School Street, Kahehuna, Honolulu where Kamakaus, Keпоikais, and Alulis either lived or worked demarked in red.



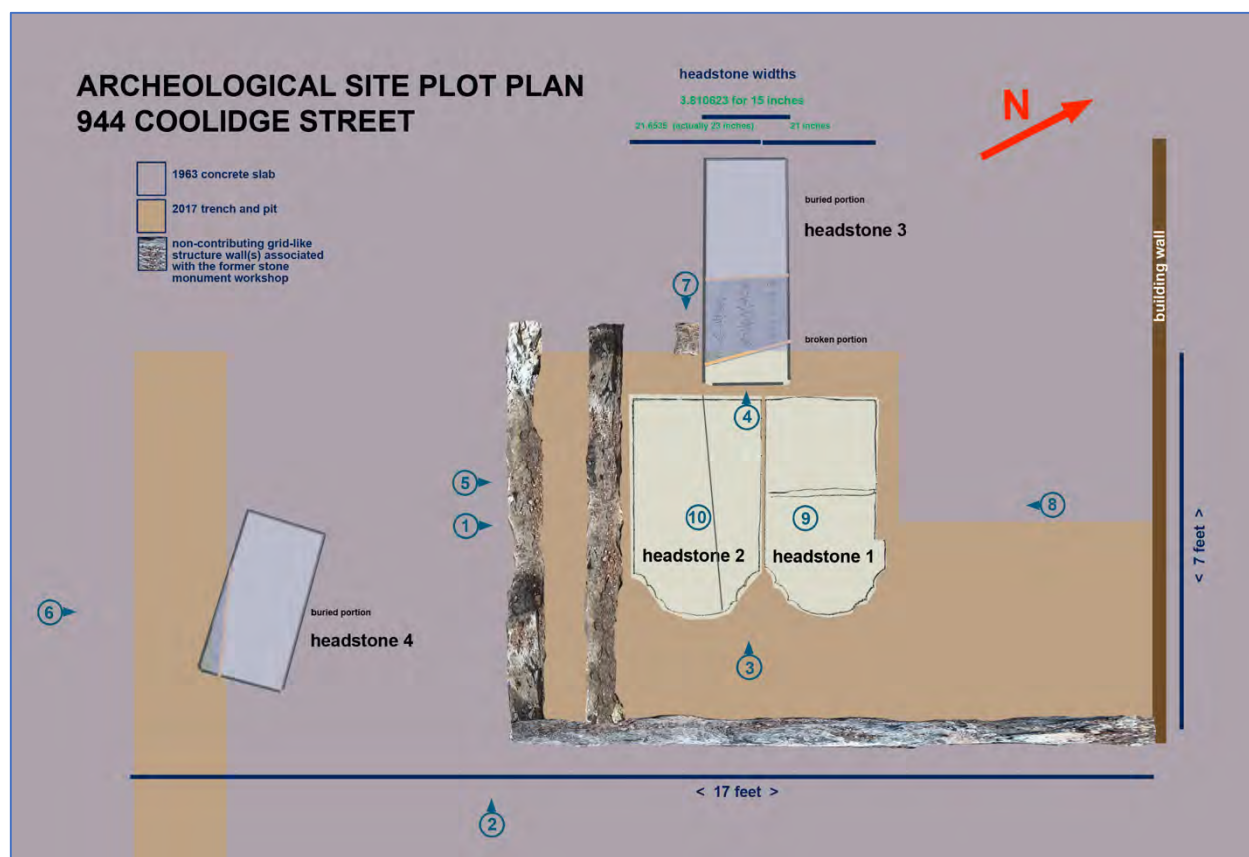
Otsubo Monument Works
Name of Property

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Photographs

Submit clear and descriptive photographs. The size of each image must be 1600x1200 pixels (minimum), 3000x2000 preferred, at 300 ppi (pixels per inch) or larger. Key all photographs to the sketch map. Each photograph must be numbered and that number must correspond to the photograph number on the photo log. For simplicity, the name of the photographer, photo date, etc. may be listed once on the photograph log and doesn't need to be labeled on every photograph.

Photo Sketch



Otsubo Monument Works
Name of Property

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County and State

Photo Log

Name of Property: Otsubo Monument Works

City or Vicinity: Mō'ili'ili

County: Honolulu, State Hawai'i:

Photographer: Laura Ruby

Date Photographed: 2017-2018

Description of Photograph(s) and number, include description of view indicating direction of camera:

Otsubo Monument Works

Photo #1 (HI_Honolulu County_Otsubo Monument Works_0001)

Discovery of first inadvertent find, camera facing *mauka*—northeast compass direction

1 of 11.

Photo #2 (HI_Honolulu County_Otsubo Monument Works_0002)

Overview of site area, camera facing 'Ewa—northwest. The site being considered is seven feet by 17 feet.

2 of 11.

Photo #3 (HI_Honolulu County_Otsubo Monument Works_0003)

Headstones 1 and 2 in-situ, camera facing 'Ewa—northwest

3 of 11.

Photo #4 (HI_Honolulu County_Otsubo Monument Works_0004)

Details of Headstone 3 (and poured-in-place structure cast 'Ewa-Diamond Head), camera facing "Ewa—northwest

4 of 11

Otsubo Monument Works

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County and State

Photo #5 (HI_Honolulu County_Otsubo Monument Works_0005)

Headstone 1 and 2 in-situ, camera facing *mauka*—northeast

5 of 11.

Photo #6 (HI_Honolulu County_Otsubo Monument Works_0006)

Details of Headstone 4, camera facing *mauka*—northeast

6 of 11.

Photo #7 (HI_Honolulu County_Otsubo Monument Works_0007)

Excavation of Headstones 1 and 2 in-situ, camera facing Diamond Head—southeast

7 of 11.

Photo #8 (HI_Honolulu County_Otsubo Monument Works_0008)

Overview of pit after Headstones 1 and 2 were removed (poured-in-place structure cast 'Ewa-Diamond Head), camera facing *makai*—southwest

8 of 11.

Photo #9 (HI_Honolulu County_Otsubo Monument Works_0009)

Headstone 1, A. Ellen P. Kamakau extricated, camera facing *mauka*—northeast (1 [of 2] artifacts removed, 2 others encased within the sealed pit)

9 of 11.

Photo #10 (HI_Honolulu County_Otsubo Monument Works_0010)

Headstone 2, N. Kepoikai, extricated, camera facing 'Ewa—northwest (2 [of 2] artifacts removed, 2 others encased within the sealed pit)

10 of 11.

Otsubo Monument Works
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Photo #11 (HI_Honolulu County_Otsubo Monument Works_0011)

Photo 0011: Headstones 1 and 2 located in the Mō'ili'ili Japanese Cemetery, but prior to refurbishing. Headstone 1: A. Ellen P. Kamakau, and Headstone 2: N. Kepoikai, relocated and re-furbished, camera facing *mauka*—north-northeast. Photos 0011B and 0011C establishes the larger contextual locations of the headstones.

11 of 11.

Otsubo Monument Works
Name of Property

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Name of Property: Otsubo Monument Works

City or Vicinity: Mō'ili'ili

County: Honolulu,

State Hawai'i:

Photographer: Laura Ruby

Date Photographed: 2017

Description of Photograph(s) and number, include description of view indicating direction of camera:

Photo #1 (HI_Honolulu County_Otsubo Monument Works_0001)

Discovery of first inadvertent find, camera facing *mauka*—northeast compass direction

1 of 11.



Otsubo Monument Works
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Photo #2 (HI_Honolulu County_Otsubo Monument Works_0002)

Overview of site area, camera facing 'Ewa-northwest. The site under consideration is seven feet by 17 feet.

2 of 11.



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Photo #3 (HI_Honolulu County_Otsubo Monument Works_0003)
Headstones 1 and 2 in-situ, camera facing 'Ewa-northwest

3 of 11.



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Photo #4 (HI_Honolulu County_Otsubo Monument Works_0004)
Details of Headstone 3 (and poured-in-place structure cast 'Ewa-Diamond Head), camera facing
'Ewa-northwest

4 of 11.



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Photo #5 (HI_Honolulu County_Otsubo Monument Works_0005)
Headstone 1 and 2 in-situ, camera facing *mauka*—northeast

5 of 11.



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Photo #6 (HI_Honolulu County_Otsubo Monument Works_0006)
Details of Headstone 4, camera facing *mauka*—northeast

6 of 11.



Otsubo Monument Works
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Photo #7 (HI_Honolulu County_Otsubo Monument Works_0007)
Excavation of Headstones 1 and 2 in-situ, camera facing Diamond Head—southeast

7 of 11.



Photo #8 (HI_Honolulu County_Otsubo Monument Works_0008)
Overview of pit after Headstones 1 and 2 were removed (poured-in-place structure cast 'Ewa-Diamond Head), camera facing *makai*—southwest

8 of 11.



Otsubo Monument Works
Name of Property

Honolulu, Hawai'i
County and State

Photo #9 (HI_Honolulu County_Otsubo Monument Works_0009)

Headstone 1, A. Ellen P. Kamakau extricated, camera facing *mauka*—northeast (1 [of 2] artifacts removed, 2 others encased within the sealed pit)

9 of 11.



Otsubo Monument Works
Name of Property

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Photo #10 (HI_Honolulu County_Otsubo Monument Works_0010)

Headstone 2, N. Kepoikai, extricated, camera facing 'Ewa—northwest (2 [of 2] artifacts removed,
2 others encased within the sealed pit)

10 of 11.



Otsubo Monument Works

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Photo #11 (HI_Honolulu County_Otsubo Monument Works_0011)

Photo 0011: Headstones 1 and 2 located in the Mō'ili'ili Japanese Cemetery, but prior to refurbishing. Headstone 1: A. Ellen P. Kamakau, and Headstone 2: N. Kepoikai, relocated and re-furbished, camera facing *mauka*—north-northeast. Photos 0011B and 0011C establishes the larger contextual locations of the headstones.

In 2017 the two extricated Hawaiian headstones—Headstone 1, A. Ellen P. Kamakau and Headstone 2, N. Kepoikai—were placed in this location inside the Mō'ili'ili Japanese Cemetery. They are now refurbished and secured on slotted concrete pedestals. The camera facing 'Ewa—northeast. (The dispositions of the two other headstones (the Arakawa Headstone and Blank Headstone), and the non-contributing grid-like wall(s) associated with the former stone monument workshop which were partially excavated are now encased within the Coolidge Street sealed pit. The contractor trenching the site said that further excavating could not be done as it might compromise the strength of the property-topping slab.

11 of 11.

Otsubo Monument Works
Name of Property

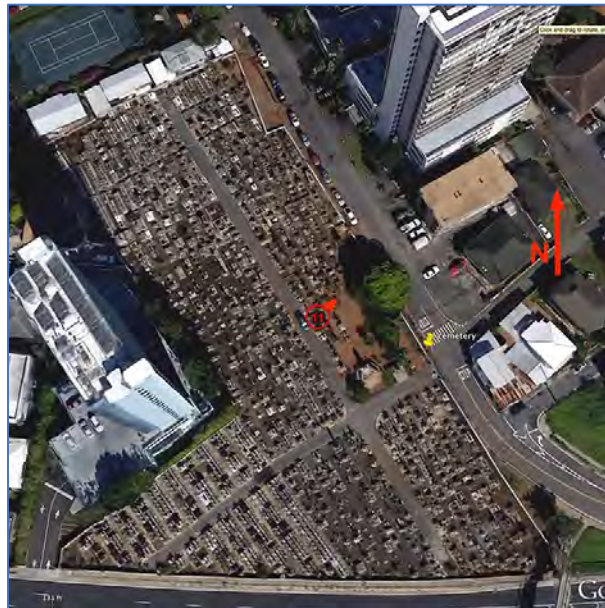
Honolulu, Hawai'i
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Name of Property

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Photo #11 C and D (HI_Honolulu County_Otsubo Monument Works_0011C and 0011D)
Photos #11C and D establish the larger contextual locations of the headstones; C: Left: the Mō'ili'ili Coolidge Street site where the headstones were excavated (upper left of photo) and the Mō'ili'ili Japanese Cemetery location, .42 miles from the Otsubo Monument Works (lower right of the photo); and D: Right: the cemetery camera facing *mauka*—north-northeast.



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Addendum A—Historical Events Timeline

1815—Samuel Manaiakalani Kamakau born (b. 1815-d. 1876)

1824— Sarah Hainakilo Kamakau born (b. 1824-d. 1905)

1832—Noa Kepoikai born (b. March 26, 1832-d. April 12, 1881)

ca. 1847—Land Commission Award LCA 4510-B—Kalena, Kumuula bk 753—5.68 acres—RP 2795 to Kaleimakalii (b. ---d. 1883) Kamehameha III, redistributed Hawaii's traditional system of land use and divided lands that had formerly been held in common and administered by *ali'i* (chiefs) and their *konohiki* (overseers). 23% of land in the islands was awarded to the king (Crown Lands); 40% of the land was awarded to 245 *ali'i* and *konohiki*; and 37% was declared government land. In 1850, the Kuleana Act awarded property to those *maka'āinana* (commoners) who actively petitioned the Land Commission for their house lots and for the land they had been working as tenants. This division was administered by an appointed Land Commission and Court of Claims.

1848—the Mahele—Land Commission Award—Ali'i Award LCA 7713*O, Apana 39 to Victoria Kamāmalu.

1850—A. Ellen P. Kamakau/Abigaila Ellen Hakaleleponi “Poni” Kamakau born (b. September 3, 1850-d. Jan 20, 1884)

1855—Samuel Mahelona Kamakau born (b. March 3, 1855-d. October 10, 1932) (wife and children?) (buried in Kahiholu Congregational Cemetery, Captain Cook, Hawai'i, Hawai'i)

1861—Sarai/Sarah Kalai Aluli born (b. 1861-d. 1908) (husband John T. Aluli (b. 1855-d. 1901)

1862—Kukelani Ka'a'apookalani Kamakau born (S.M. Kamakau daughter) (b. December 1862, d. --)

1863—Auwae Noa Kepoikai, Judge born (b. 1863-d. 1911) (wife Rose Daniels)

1872—Sentaro Otsubo born (b. 1872-d. 1952)

1874—Mahele transfer of land to fee simple private property. Victoria Kamāmalu (d. May 29, 1866). Her father Governor Kekuanaoa administered the Victoria K Kamāmalu Estate that eventually became the Bishop Estate.

Otsubo Monument Works

Name of Property

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1876—Japanese sailor Matajuro Arakawa died and was the first seaman to be buried in Makiki Cemetery. In the same enclosure in the Makiki Cemetery there is a monument to the early seventeen Japanese seamen at the Makiki Cemetery, and there is also a *Gannenmono* monument for the first Issei arriving in Hawai'i in 1868.

ca. 1893—first Japanese Issei arrive in Mō'ili'ili—locus Triangle Park.

ca. 1923—Henry Husten bulldozed Loko Pa'akea and surrounding area raising it to 1-4 feet in elevation.

1923-24—Sentaro Otsubo bought the 944 Coolidge Street property and set up his Otsubo Monument Works business (listed in 2017 as commercial) and residence.

1952—Sentaro Otsubo died.

1963—Kenjiro and Yakue Otsubo Natsuyama and Yone Otsubo constructed a new building on a full-property concrete slab.

2017 (March 21)—An excavator digging a pit for the restaurant grease trap uncovered two headstones with fragments. Later that month another two headstones were uncovered within this archeological layer; soil samples were taken and analyzed. The excavation site is now cemented over, and this report has been presented.

Otsubo Monument Works
Name of Property

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Addendum B—Property Transfers

Property Transfers for TMK 2-7-009: 034–944 Coolidge Street, Honolulu HI 96826 (R.P. 4475 and 7789: LCA 7713 Apana 39)

DATE	LIBER	TRANSACTION	COST	AREA	DESCRIPTION
1848 Jan	<i>Buke Mahele</i> 1-6 (6-11) (<i>Mahele Book</i> 1, 3, 5 (6, 8, 10)	Award Victoria Kamāmalu lands in the Mahele by the Mo'i (alodio)		Claimed whole 'ili	<i>Ali'i Award LCA 7713*O, Apana 39</i> <i>RP 7789 (and RP 4475) to Victoria Kamāmalu in Kapa'akea, 'Ili ma Waikīkī, Kona</i> (Victoria Kamāmalu died May 29, 1866 [father Kekuanaoa administered V.K. Estate— which later became the Bishop Estate])
1911 May 22 through 1916 July 26	Bk340/pp498-99; Bk448/pp265-267; p430	Deed—smaller portion included access to Quarry; larger portion included King St property	\$1,730; later money transfer of \$3,750	61,556 sq ft; and 14.325 A	<i>HC&D Deeded from Bishop Estate; then Charles M. Cooke Deeded from HC&D</i>
1917 Sep 6 and Sep 7	Bk475/p240-42 and p430	Deed	\$7,000	14.325 A.	<i>Jonah Kumalae and wife Deeded from Charles M. Cooke, Ltd.</i>
1919 Jan 24 and June 23	Bk508/p429-31	Deed	\$25,000		<i>George P. Cooke Deeded from Jonah Kumalae & wf Por. of Apana 39 R.P.7789 Kul.7713 King St.</i>
1920 Mar 5 and Mar 23	Bk550/p219	Agreement			<i>Add/Change Bank of Hawai'i, Ltd. from George P. Cooke, &wf</i>
1923 Apr 4 and Apr 5	Bk 683/p115	Agreement	to sell for \$45,000	11.226A	<i>H. Mirikitani, et al received from George P. Cooke, &wf Por of R.P.7789 Kul.7713 Ap39 King St.</i>
1923 Apr 4 and Apr 5	Bk683/p115	Agreement	to sell for \$45,000	11.226A	<i>Leahi Investment & Land Co. (H. Mirikitani, et al) and George P. Cooke &wf</i>
1923 Sep 6 and Sep 11	Bk699/p29	Par./Rel. [Partial Release of Mortgage]		Lot No. 1, in Block "C" of the Mirikitani	<i>George P. Cooke and Bank of Hawai'i, Ltd.</i> <i>(Note: this is when Cooke paid part of his mortgage on land</i>

Otsubo Monument Works
Name of Property

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				Tract—File plan no. Reg map 233	<i>including the future Otsubo property.)</i>
1923 Dec 11	Bk711/pp154-58 [from Otsubo Deed of Jan. 1924]	Deed	“one dollar in her hand paid”		<i>Frederick E. Steere & wf Charlotte D.I. Steere purchased from George P. Cooke</i>
1924 Jan 23 and Jan 29	Bk722/p31-33	Deed	\$1,800	Lot 1 Blk C Mirikitani Tract	<i>Sentaro Otsubo (Grantee) purchased from Frederick E. Steere & wf (Grantor)</i>
1932	TMK Plat Map 2- 7-09: 034			3314 sq ft	<i>Sentaro Otsubo owner</i>
1941 Sep 5 and Oct 1	Bk1666/p497-98	Deed	\$1 and aloha	Lot 1 Blk C Mirikitani Tract	<i>Kenjiro and Yakue Natsuyama hsb&wf from Sentaro and Yone Otsubo hsb&wf</i>
1954 Feb 26 and Mar 31	2806/p487-89	Deed	\$2,545	688 sq ft— Portion of Lot 1, Block C of McKinley Park Tract minus 15 ft	<i>Conveyed to the City and County of Honolulu for S. King St. widening (<u>makai</u> side) from Kenjiro and Yakue Natsuyama & Yakue Otsubo (widow)</i>
1989		Lease—ground floor			<i>Space lease with restaurant “Silver Spoon”</i>
1990 Oct 26		Deed	\$1 and aloha	3,314 sq. ft.	<i>Kenjiro & Yakue Natsuyama conveyed property to Kenjiro & Yakue Natsuyama Revocable Living Trust</i>

Otsubo Monument Works
Name of Property

Honolulu, Hawai'i
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Addendum C--Soil Sample Results

CTAHR		Agricultural Diagnostic Service Center	
College of Tropical Agriculture & Human Resources University of Hawaii at Manoa		Department of Agronomy and Soil Science 1910 East-West Road, Honolulu, HI 96822 Ph: (808) 956-6706 / FAX: (808) 956-2592 Email: adsc@ctahr.hawaii.edu	
Soil/Plant Analysis Report			
Client: RUBY, LAURA 509 UNIVERSITY AVENUE, #902 HONOLULU, HAWAII 96826		Date Reported: 11/02/2017 Agent: NO AGENT, Office: NONE NONE NONE, NONE NONE Fax:	
Sample Information			
Job Control No: 18-017022-001	Map Unit:	Plant Grown: None	
Sample Label: 2	Soil Series:	Plant to be grown: None	
Date Received: 11/2/2017	Soil Category: HEAVY SOIL	Can you till 4-6 in.? No	
Send Copy To	Soil Depth (in):	Test Results Only? No	
Elevation (ft.):	Latitude:	Longitude:	
Test Results and Interpretation			
HEAVY SOIL			
Soil Analysis	Results	Expected	INTERPRETATION
pH	8.1	6	Very Low Low Sufficient High Very High
P_ppm	75	37.5	
K_ppm	709	250	
Ca_ppm	7872	1750	
Mg_ppm	847	350	
OC_%		No criteria found	
Total_N_%		No criteria found	
Salinity_EC		1.25	
S_ppm		No criteria found	
Fe_ppm		No criteria found	
Mn_ppm		No criteria found	
Zn_ppm		No criteria found	
Cu_ppm		No criteria found	
B_ppm		No criteria found	
Mo_ppm		No criteria found	
Al_ppm		No criteria found	
None			
Plant Analysis	Results	Expected	INTERPRETATION
N_%			Very Low Low Sufficient High Very High
P_%			
K_%			
Ca_%			
Mg_%			
S_%			
Fe_ppm			
Mn_ppm			
Zn_ppm			
Cu_ppm			
B_ppm			
Mo_ppm			
Al_ppm			
NO3_ppm			

Page 1 of 2

Otsubo Monument Works
Name of Property

Honolulu, Hawai'i
County and State

Job Control No: 18-017022-001

Problem Description

Fertilizer and Lime Recommendations

Total Nutrient Requirement (lbs/Acre):	Nitrogen:	Phosphorus: 0	Potassium: 0
Fertilizer / Lime Material	Total Amount (lbs/Acre)	Applications	Cost Estimate (\$/Acre)

Comments

--- GENERAL INFORMATION ---

- o Please indicate the soil series when submitting your soil samples.
- o Knowing levels of sulfur and micronutrients in plants is also important. For proper diagnosis, tissue analysis is needed.
- o The pH of all the samples is very high and this will cause micronutrients like iron, copper, and zinc to become less available for crop uptake and may cause yellowing and stunted growth in crops.
- o Sulfur can be incorporated to help lower the pH.
- o All of the nutrients are adequate or high.
- o Fertilizer like ammonium sulfate (21-0-0) can be used for Nitrogen. The ammonium sulfate will also help to lower the pH.
- o We recommend that you adopt a nutrient monitoring approach by retaining this sample report for comparison with future samples.

NOTE:

The interpretations are based on Fact Sheet No. 3 "Adequate Nutrient Levels in Soils and Plants in Hawaii."

To help improve future recommendations, please answer the following questions, photocopy this form and return it to above address.

1. Did you need to modify the recommendation? if so, how?
2. Did your plants improve? Please give unit area yield before and after the recommendation was applied.

FEEDBACK

Otsubo Monument Works
Name of Property

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CTAHR College of Tropical Agriculture & Human Resources University of Hawaii at Manoa Soil/Plant Analysis Report	Agricultural Diagnostic Service Center Department of Agronomy and Soil Science 1910 East-West Road, Honolulu, HI 96822 Ph: (808) 956-6706/443 FAX: (808) 956-2592 Email: adsc@ctahr.hawaii.edu
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Client: RUBY, LAURA 509 UNIVERSITY AVENUE; #902 HONOLULU, HAWAII 96826	Date Reported: 11/02/2017 Agent: NO AGENT, Office: NONE NONE NONE, NONE NONE , Fax:
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Sample Information			
Job Control No: 18-017022-002	Map Unit:	Plant Grown: None	
Sample Label: 3A & 4	Soil Series:	Plant to be grown: None	
Date Received: 11/2/2017	Soil Category: HEAVY SOIL	Can you till 4-6 in.? No	
Send Copy To	Soil Depth (in):	Test Results Only? No	
Elevation (ft.):	Latitude:	Longitude:	

Test Results and Interpretation							
HEAVY SOIL			INTERPRETATION				
Soil Analysis	Results	Expected	Very Low	Low	Sufficient	High	Very High
pH	8.4	6					
P_ppm	42	37.5					
K_ppm	591	250					
Ca_ppm	8757	1750					
Mg_ppm	780	350					
OC_%		No criteria found					
Total_N_%		No criteria found					
Salinity_EC		1.25					
S_ppm		No criteria found					
Fe_ppm		No criteria found					
Mn_ppm		No criteria found					
Zn_ppm		No criteria found					
Cu_ppm		No criteria found					
B_ppm		No criteria found					
Mo_ppm		No criteria found					
Al_ppm		No criteria found					

None			INTERPRETATION				
Plant Analysis	Results	Expected	Very Low	Low	Sufficient	High	Very High
N_%							
P_%							
K_%							
Ca_%							
Mg_%							
S_%							
Fe_ppm							
Mn_ppm							
Zn_ppm							
Cu_ppm							
B_ppm							
Mo_ppm							
Al_ppm							
NO3_ppm							

Otsubo Monument Works
Name of Property

Honolulu, Hawai'i
County and State

Job Control No: 18-017022-002

Problem Description

Fertilizer and Lime Recommendations

Total Nutrient Requirement (lbs/Acre):	Nitrogen: 200	Phosphorus: 0	Potassium: 0
Fertilizer / Lime Material	Total Amount (lbs/Acre)	Applications	Cost Estimate (\$/Acre)
Fertilizer: 21-0-0	952	split into 2 applns.	152

Comments

--- GENERAL INFORMATION ---

- o Please indicate the soil series when submitting your soil samples.
- o Knowing levels of sulfur and micronutrients in plants is also important. For proper diagnosis, tissue analysis is needed.
- o Split the fertilizer into several applications before planting and thereafter once every 3-4 weeks until the total amount has been applied.
- o We recommend that you adopt a nutrient monitoring approach by retaining this sample report for comparison with future samples.

NOTE:

The interpretations are based on Fact Sheet No. 3 "Adequate Nutrient Levels in Soils and Plants in Hawaii."
To help improve future recommendations, please answer the following questions, photocopy this form and return it to above address.

1. Did you need to modify the recommendation? if so, how?
2. Did your plants improve? Please give unit area yield before and after the recommendation was applied.

FEEDBACK

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CTAHR College of Tropical Agriculture & Human Resources University of Hawaii at Manoa Soil/Plant Analysis Report	Agricultural Diagnostic Service Center Department of Agronomy and Soil Science 1910 East-West Road, Honolulu, HI 96822 Ph: (808) 956-8706 FAX: (808) 956-2592 Email: adsc@ctahr.hawaii.edu
---	---

Client: RUBY, LAURA 509 UNIVERSITY AVENUE, #902 HONOLULU, HAWAII 96826	Date Reported: 11/02/2017 Agent: NO AGENT, Office: NONE NONE NONE, NONE NONE , Fax:
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Sample Information			
Job Control No: 18-017022-003	Map Unit:	Plant Grown:	None
Sample Label: 3	Soil Series:	Plant to be grown:	None
Date Received: 11/2/2017	Soil Category: HEAVY SOIL	Can you till 4-6 in.?	No
Send Copy To	Soil Depth (in):	Test Results Only?	No
Elevation (ft.):	Latitude:	Longitude:	

Test Results and Interpretation							
HEAVY SOIL		INTERPRETATION					
Soil Analysis	Results	Expected	Very Low	Low	Sufficient	High	Very High
_pH	8.3	6					
P_ppm	40	37.5					
K_ppm	539	250					
Ca_ppm	7911	1750					
Mg_ppm	737	350					
OC_ %		No criteria found					
Total_N_ %		No criteria found					
Salinity_EC		1.25					
S_ppm		No criteria found					
Fe_ppm		No criteria found					
Mn_ppm		No criteria found					
Zn_ppm		No criteria found					
Cu_ppm		No criteria found					
B_ppm		No criteria found					
Mo_ppm		No criteria found					
Al_ppm		No criteria found					

None		INTERPRETATION					
Plant Analysis	Results	Expected	Very Low	Low	Sufficient	High	Very High
N_ %							
P_ %							
K_ %							
Ca_ %							
Mg_ %							
S_ %							
Fe_ppm							
Mn_ppm							
Zn_ppm							
Cu_ppm							
B_ppm							
Mo_ppm							
Al_ppm							
NO3_ppm							

Otsubo Monument Works
Name of Property

Honolulu, Hawai'i
County and State

Job Control No: 18-017022-003

Problem Description

Fertilizer and Lime Recommendations

Total Nutrient Requirement (lbs/Acre):	Nitrogen: 200	Phosphorus: 0	Potassium: 0
Fertilizer / Lime Material	Total Amount (lbs/Acre)	Applications	Cost Estimate (\$/Acre)
Fertilizer: 21-0-0	952	split into 2 applns.	152

Comments

--- GENERAL INFORMATION ---

- o Please indicate the soil series when submitting your soil samples.
- o Knowing levels of sulfur and micronutrients in plants is also important. For proper diagnosis, tissue analysis is needed.
- o Split the fertilizer into several applications before planting and thereafter once every 3-4 weeks until the total amount has been applied.
- o We recommend that you adopt a nutrient monitoring approach by retaining this sample report for comparison with future samples.

NOTE:

The interpretations are based on Fact Sheet No. 3 "Adequate Nutrient Levels in Soils and Plants in Hawaii."

To help improve future recommendations, please answer the following questions, photocopy this form and return it to above address.

1. Did you need to modify the recommendation? if so, how?
2. Did your plants improve? Please give unit area yield before and after the recommendation was applied.

FEEDBACK

Otsubo Monument Works
Name of Property

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County and State

CTAHR College of Tropical Agriculture & Human Resources University of Hawaii at Manoa	Agricultural Diagnostic Service Center Department of Agronomy and Soil Science 1910 East-West Road, Honolulu, HI 96822 Ph: (808) 956-6706 FAX: (808) 956-2592 Email: adsc@ctahr.hawaii.edu
Soil/Plant Analysis Report	

Client:	RUBY, LAURA 509 UNIVERSITY AVENUE; #902 HONOLULU, HAWAII 96826	Date Reported:	11/02/2017
Agent:		NO AGENT, Office: NONE NONE NONE, NONE NONE Fax:	

Sample Information			
Job Control No:	18-017022-004	Map Unit:	
Sample Label:	3 MAKAI	Soil Series:	
Date Received:	11/2/2017	Soil Category:	HEAVY SOIL
Send Copy To		Soil Depth (in):	
Elevation (ft.):		Latitude:	
		Plant Grown:	None
		Plant to be grown:	None
		Can you till 4-6 in.?	No
		Test Results Only?	No
		Longitude:	

Test Results and Interpretation							
HEAVY SOIL							
Soil Analysis	Results	Expected	Very Low	Low	Sufficient	High	Very High
pH	8	6					
P_ppm	136	37.5					
K_ppm	844	250					
Ca_ppm	8235	1750					
Mg_ppm	1058	350					
OC_%		No criteria found					
Total_N_%		No criteria found					
Salinity_EC		1.25					
S_ppm		No criteria found					
Fe_ppm		No criteria found					
Mn_ppm		No criteria found					
Zn_ppm		No criteria found					
Cu_ppm		No criteria found					
B_ppm		No criteria found					
Mo_ppm		No criteria found					
Al_ppm		No criteria found					

None							
Plant Analysis	Results	Expected	Very Low	Low	Sufficient	High	Very High
N_%							
P_%							
K_%							
Ca_%							
Mg_%							
S_%							
Fe_ppm							
Mn_ppm							
Zn_ppm							
Cu_ppm							
B_ppm							
Mo_ppm							
Al_ppm							
NO3_ppm							

Otsubo Monument Works
Name of Property

Honolulu, Hawai'i
County and State

Job Control No: 18-017022-004

Problem Description

Fertilizer and Lime Recommendations

Total Nutrient Requirement (lbs/Acre):	Nitrogen: 200	Phosphorus:	Potassium:
Fertilizer / Lime Material	Total Amount (lbs/Acre)	Applications	Cost Estimate (\$/Acre)
Fertilizer: 21-0-0	952	split into 2 applns.	152

Comments

--- GENERAL INFORMATION ---

- o Please indicate the soil series when submitting your soil samples.
- o Knowing levels of sulfur and micronutrients in plants is also important. For proper diagnosis, tissue analysis is needed.
- o We recommend that you adopt a nutrient monitoring approach by retaining this sample report for comparison with future samples.

NOTE:

The interpretations are based on Fact Sheet No. 3 "Adequate Nutrient Levels in Soils and Plants in Hawaii."
To help improve future recommendations, please answer the following questions, photocopy this form and return it to above address.
1. Did you need to modify the recommendation? If so, how?
2. Did your plants improve? Please give unit area yield before and after the recommendation was applied.

FEEDBACK

Otsubo Monument Works
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CTAHR College of Tropical Agriculture & Human Resources University of Hawaii at Manoa	Agricultural Diagnostic Service Center Department of Agronomy and Soil Science 1910 East-West Road, Honolulu, HI 96822 Ph: (808) 956-6706 FAX: (808) 956-2592 Email: adsc@ctahr.hawaii.edu
Soil/Plant Analysis Report	

Client:	RUBY, LAURA 509 UNIVERSITY AVENUE; #902 HONOLULU, HAWAII 96826	Date Reported:	11/02/2017
Agent:			NO AGENT, Office: NONE NONE NONE, NONE NONE , Fax:

Sample Information			
Job Control No:	18-017022-005	Map Unit:	Plant Grown: None
Sample Label:	3 AB MAKAI	Soil Series:	Plant to be grown: None
Date Received:	11/2/2017	Soil Category:	HEAVY SOIL
Send Copy To		Soil Depth (in):	Can you till 4-6 in.? No
Elevation (ft.):		Latitude:	Test Results Only? No
		Longitude:	

Test Results and Interpretation							
HEAVY SOIL							
Soil Analysis	Results	Expected	Very Low	Low	Sufficient	High	Very High
_pH	7.7	6					
P_ppm	206	37.5					
K_ppm	1223	250					
Ca_ppm	6606	1750					
Mg_ppm	1120	350					
OC_%		No criteria found					
Total_N_%		No criteria found					
Salinity_EC		1.25					
S_ppm		No criteria found					
Fe_ppm		No criteria found					
Mn_ppm		No criteria found					
Zn_ppm		No criteria found					
Cu_ppm		No criteria found					
B_ppm		No criteria found					
Mo_ppm		No criteria found					
Al_ppm		No criteria found					

None							
Plant Analysis	Results	Expected	Very Low	Low	Sufficient	High	Very High
N_%							
P_%							
K_%							
Ca_%							
Mg_%							
S_%							
Fe_ppm							
Mn_ppm							
Zn_ppm							
Cu_ppm							
B_ppm							
Mo_ppm							
Al_ppm							
NO3_ppm							

Otsubo Monument Works
Name of Property

Honolulu, Hawai'i
County and State

Job Control No: 18-017022-005

Problem Description

Fertilizer and Lime Recommendations

Total Nutrient Requirement (lbs/Acre):		Nitrogen: 200	Phosphorus: 0	Potassium: 0
Fertilizer / Lime	Material	Total Amount (lbs/Acre)	Applications	Cost Estimate (\$/Acre)
Fertilizer:	21-0-0	952	split into 2 applns.	152

Comments

--- GENERAL INFORMATION ---

- o Please indicate the soil series when submitting your soil samples.
- o Knowing levels of sulfur and micronutrients in plants is also important. For proper diagnosis, tissue analysis is needed.
- o
- o We recommend that you adopt a nutrient monitoring approach by retaining this sample report for comparison with future samples.

NOTE:

The interpretations are based on Fact Sheet No. 3 "Adequate Nutrient Levels in Soils and Plants in Hawaii."

To help improve future recommendations, please answer the following questions, photocopy this form and return it to above address.

1. Did you need to modify the recommendation? if so, how?
2. Did your plants improve? Please give unit area yield before and after the recommendation was applied.

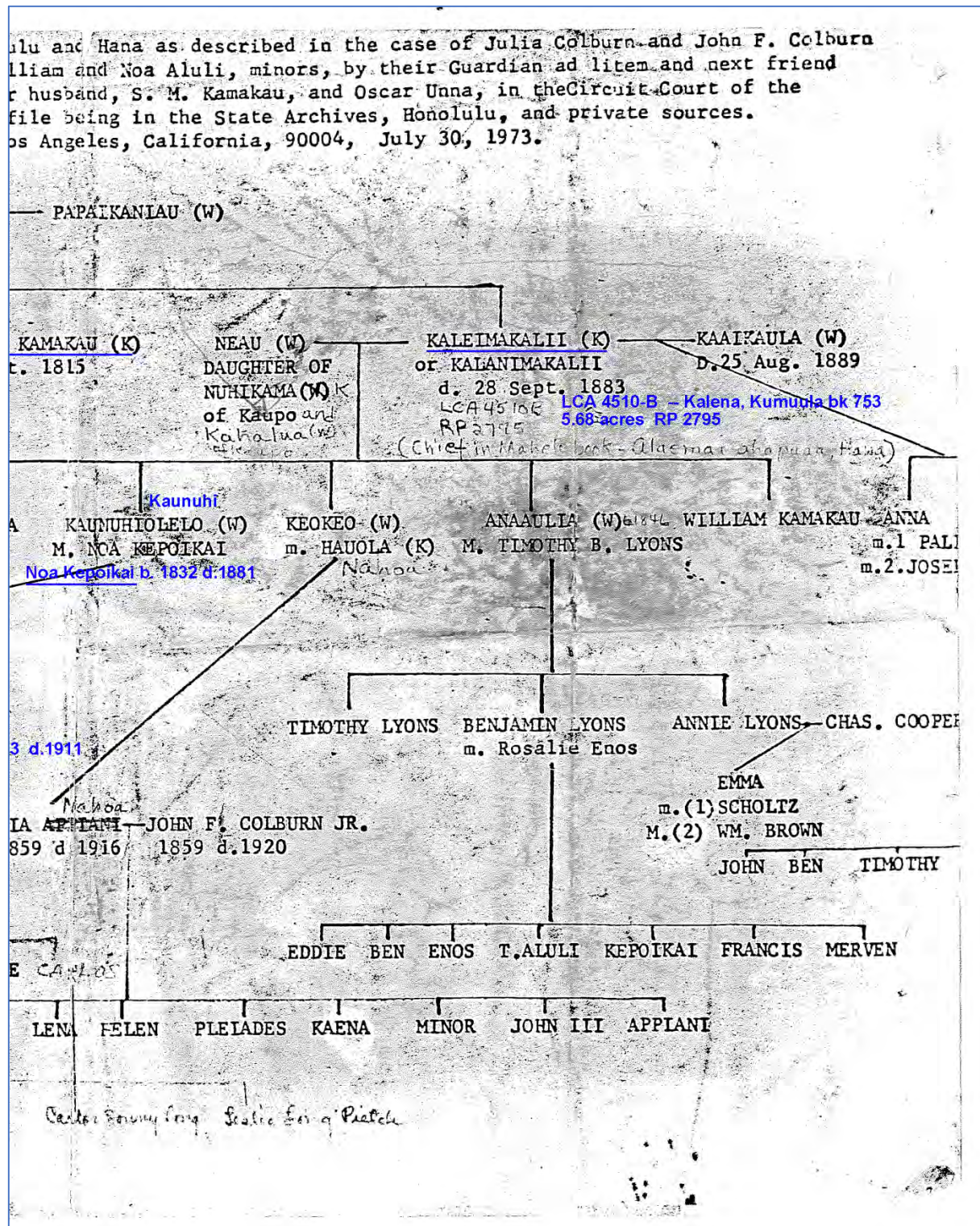
FEEDBACK

Otsubo Monument Works

Name of Property

Honolulu, Hawai'i

County and State



Otsubo Monument Works
Name of Property

Honolulu, Hawai'i
County and State

Addendum E—Later Descendants of the Kamakau Line

*John Boniface Kamakau—b. ca. 1885, d. 1950s

brother Edward Philip Kamakau b. 1896 in Waiohuli (father in Kaupo)
brother Samuel?

—information provided by William Billy Adolpho (Portuguese hanai grandson)
(82 in 2017)
510-396-3484
address
Tracy CA
Waiola?

—information provided by Jennie Kahlbaum (Hawaiian hanai granddaughter)
(Jenny and Billy cousins)
259-5243
41-686 Alakoa
Waimanalo HI

Mary Hoohie Kamakau Correa b. Kula TH Hawaii Jan. 11, 1915, d. April 12, 1994

*Grandfather Noah (2) Kamakau—b. June 5, 1860—Kaupo—d. July 15, 1941

Grandmother Mary Hookano Kamakau

*Great great grandfather (Noa's father) Kalio (sp?) Kamakau
Great great grandmother (Noa's mother) Kamailua
Noa (Noah) buried in Haleakala (Kula) Hawaiian Church Cemetery—he was catholic not
protestant
His mother and father active in Holy Ghost Church--luau etc —both buried there

—information provided by Myrna Correa Briggs
619 500-5779
1715 Rolling Water Dr #3
Chula Vista CA 91915
myrnabriggs@hotmail.com

*Samuel Kaleimakaii great-grandfather—b. July 21, 1843—Kipahulu Maui

*John Boniface Kamakau grandfather (1930 lived on Waialae Ave) [see above]

Otsubo Monument Works
Name of Property

Honolulu, Hawai'i
County and State

Makue Kalani "Katherine" Kamakau (1930 lived on Waialae Ave)

–information provided by Samuel Barlahan–Sam
808 357-2681
3076 Iolani ST Apt #B
Pukalani HI 96768

–information provided by Victoria Vicky Kamakau Purdy
760-2133
146 Kaahauhea
Kula, Maui

(Kaniu P. Hapakuka called me for Vicky 344-6703)

Paperwork Reduction Act Statement: This information is being collected for applications to the National Register of Historic Places to nominate properties for listing or determine eligibility for listing, to list properties, and to amend existing listings. Response to this request is required to obtain a benefit in accordance with the National Historic Preservation Act, as amended (16 U.S.C.460 et seq.).

Estimated Burden Statement: Public reporting burden for this form is estimated to average 100 hours per response including time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding this burden estimate or any aspect of this form to the Office of Planning and Performance Management, U.S. Dept. of the Interior, 1849 C. Street, NW, Washington, DC.