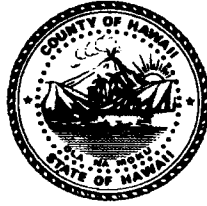


Harry Kim  
Mayor



Michael Yee  
Director

Daryn Arai  
Deputy Director

West Hawai'i Office  
74-5044 Ane Keohokalole Hwy  
Kailua-Kona, Hawai'i 96740  
Phone (808) 323-4770  
Fax (808) 327-3563

**County of Hawai'i**  
**PLANNING DEPARTMENT**

East Hawai'i Office  
101 Pauahi Street, Suite 3  
Hilo, Hawai'i 96720  
Phone (808) 961-8288  
Fax (808) 961-8742

November 19, 2018

Niels Christensen, LPLS  
The Independent Hawaii Surveyors, LLC  
P.O. Box 577  
Hilo, HI 96721

Dear Mr. Christensen:

**SUBJECT: Application: VARIANCE - VAR-18-000492**  
**Applicant: NIELS CHRISTENSEN, LPLS, THE INDEPENDENT HAWAII SURVEYORS, LLC**  
**Owners: PENELOPE KEALOHA-LINCOLN & SONIA K. LIU**  
**Request: Variance from Chapter 23, Subdivisions, Article 6, Division 2, Improvements Required, Section 23-84, Water Supply**  
**Tax Map Key: 4-6-008:024 (SUB-18-001818)**

Upon review of your variance application, the Planning Director certifies the **approval** of Variance VAR-18-000492, subject to variance conditions. The variance grants relief for SUB-18-001818 from constructing minimum County dedicable water supply system improvements for the two (2) of the three (3) lots as required by Hawai'i County Code (HCC), Chapter 23 (Subdivisions).

The variance is from the proposed subdivision's minimum requirements pursuant to HCC, Chapter 23 (Subdivisions), Article 6, Division 2, Improvements Required, Section 23-84, Water Supply, (1)(2).

**BACKGROUND**

1. **Location.** The referenced property, Lot 18, Ahualoa, Homesteads, First Series, containing approximately 19.5 acres, is situated at Ahualoa, Hamakua, Hawai'i. The subject property's street address is 46-3925 Kapuna Road.
2. **County Zoning.** Agricultural, 5 acres (A-5a).

3. **State Land Use.** Agricultural (A).
4. **General Plan.** Land Use Pattern Allocation Guide (LUPAG) map designates the property as Important Agricultural Lands (ial).
5. **Subdivision Code Requirements.** The subdivision code requires that subdivisions be served by a water system meeting the minimum requirements of the County Department of Water Supply (DWS) and be provided with water mains and fire hydrants installed to and within the subdivision in accordance with the rules and regulations of the DWS.
6. **Subdivision Request/PPM.** Subdivision application SUB-18-001818 was submitted to subdivide the subject TMK property into 3 lots. Further action on the subdivision application has been deferred pursuant to Planning Department deferral letter dated July 24, 2018, in the subdivision file.
7. **Variance Application.** The variance request from water supply improvements for two (2) of the three (3) lots was acknowledged by Planning Department letter dated September 11, 2018. This variance application includes background history and circumstances and information regarding the pending subdivision application. Although the parcel is served by one water meter, additional water cannot be made available for the two (2) additional proposed lots without extensive water system facilities improvements.
8. **Agency Comments and Requirements.**
  - a. State of Hawai'i-Department of Health (DOH): See attached memorandum dated September 17, 2018. **(Exhibit A)**
  - b. County of Hawai'i Fire Department (HFD): See attached memoranda dated September 19, 2018. **(Exhibit B)**.
  - c. Department of Water Supply (DWS): See attached memoranda dated September 26, 2018. **(Exhibit C)** We have also attached their comments in response to the subdivision application. **(Exhibit D)**
  - d. No other agency comments were solicited and none were received.

9. **Notice to Surrounding Owners/Posted Sign.** The applicant submitted evidence, dated July 18, 2018, regarding the posting of a public notification sign on the subject property pursuant to Section 23-17(c) of the Hawai'i County Code (HCC). A picture of the posted sign was also submitted. The evidence also indicates that a notice of the application was sent to the surrounding property owners on September 19, 2018, as required by Section 23-17(a).
10. **Comments from Surrounding Property Owners or Public.** There were no comments received from any neighbors or the public.
11. **Time Extension.** The applicant's variance application was acknowledged by letter dated September 21, 2018, and additional time to review the application was required. The applicant granted the Planning Director an extension of time until November 30, 2018, for decision on the Variance Application.

#### **ANALYSIS OF GROUNDS FOR VARIANCE**

No variance will be granted unless it is found that:

- (a) *There are special or unusual circumstances applying to the subject real property which exist either to a degree which deprives the owner or applicant of substantial property rights that would otherwise be available or to a degree which obviously interferes with the best use or manner of development of that property.*

The Variance application meets criterion (a) for the following reasons(s):

The subdivision request is for three (3) lots in keeping with the existing A-10a zoning. Although a dedicable water system is a requirement of the code, it would be unreasonable for the subdividers alone to shoulder the costs associated with upgrading the DWS system to further service the subject property and the two (2) additional proposed subdivided lots. It would be unreasonable to expect the owners to construct the required service facilities upgrades and extensions to serve two (2) of the three (3) lots. The request is for only two (2) additional lots, so this variance request is reasonable. Therefore, in lieu of constructing water system improvements to either extend/upgrade the DWS facilities or provide a private water system to DWS standards for the pending 3-lot subdivision, a more reasonable alternative can be allowed through Rule 22, Water Variance.

The above special and unusual circumstances would deprive the applicant from developing this property and interferes with the best use of this property. Therefore, for this 3-lot subdivision, the best use and manner of the development allows for individual rain water catchment system in keeping with the agricultural character of the area.

**(b) *There are no other reasonable alternatives that would resolve the difficulty.***

The Variance application meets criterion (b) for the following reasons(s):

The DWS has indicated that the property is not able to be served with additional water beyond the one existing meter without the extension to the present water system facilities. Constructing water system improvements to extend/upgrade the DWS facilities or provide a private water system to DWS standards for the pending 3-lot subdivision would be placing excessive demands upon the applicant because of the extensive improvements and additions required to upgrade the existing DWS water system facilities. And, at an elevation of approximately 600 feet above sea level, the drilling of wells and construction of other water system improvements to DWS standards would also be unreasonable for a 3-lot subdivision.

**(c) *The variance will be consistent with the general purpose of the district, the intent and purpose of this chapter, and the County general plan and will not be materially detrimental to the public welfare or cause substantial, adverse impact to an area's character or to adjoining properties.***

The Variance application meets criterion (c) for the following reasons(s):

Given that there is adequate rainfall (approximately 80 inches annually) to support individual water catchment for two (2) of the three (3) lots, the granting of this variance would be consistent with the general purpose of the district. Water catchment is consistent with the intent of the policies of the general plan in that it will further housing and agricultural production opportunities in this agricultural area. Water catchment will not be materially detrimental to the public welfare as it serves only private parties.

Subject to conditions, granting of the variance will not cause substantial, adverse impact to the area's character or to adjoining properties. The collection of rainwater could help to reduce runoff and may be a benefit to the surrounding area.

Given that the subject area receives sufficient annual rainfall, a water variance would be consistent with the general purpose of the zoning district and the intents and purposes of the Zoning Code, Subdivision Code and the Hawai'i County General Plan.

### **DETERMINATION-VARIANCE CONDITIONS**

The variance to permit the proposed 3-lot subdivision of the subject TMK property without providing dedicable water system improvements meeting DWS standards, is hereby **approved** subject to the following variance conditions:

1. The applicant, owners, their assigns, or successors shall be responsible for complying with all stated conditions of approval.
2. Should the Council adopt a Unified Impact Fees Ordinance setting forth criteria for the imposition of exactions or the assessment of impact fees, conditions included herein shall be credited towards the requirements of the Unified Impact Fees Ordinance.
3. The owners, their assigns, or successors shall file a written agreement document with the Planning Department within one (1) year from the issuance of tentative subdivision approval. This written agreement shall contain deed language, being covenants, conditions, and restrictions affecting the three (3) lots created by the proposed subdivision which are not serviced by a County dedicable public water system.

The agreement shall be duly recorded at the State of Hawai'i Bureau of Conveyances by and at the cost and expense of the owners. A copy of the recorded document shall be supplied to the Planning Department for our files.

In the event that there are any amendments or changes to the subdivision after the agreement is signed, the applicant shall be responsible for informing the County Planning Department of such amendments or changes so that the agreement can be amended concomitantly. Further, the recorded agreement shall be binding upon the owner(s), their successors or assigns and shall be incorporated as an exhibit and made part of each agreement of sale, deed, lease, or similar documents affecting the title of the existing property or approved subdivided lots.

4. The subdivider and all grantees, successors, and assigns acknowledge that the parcels were created by a variance, from the normal subdivision requirements of Hawai'i County, and that there are no longer any special or unusual circumstances applying to the property, and hence, no grounds exist or will exist for another variance, from the Subdivision Code to permit further subdivision of the properties, unless County dedicable public water system requirements and other requirements of HCC Chapter 23, Subdivisions, are met.
5. The owners, grantees, successors, and assigns agree and accept the fact that a County dedicable public water system, will not be extended, to serve the lots within proposed subdivision SUB-18-0011818.
6. The owners, grantees, successors, and assigns agree and accept the fact that the County will not bear the responsibility of supplying additional public water to the subdivided lots. No further subdivision of the lots will be permitted unless County dedicable public water system requirements and other requirements of HCC Chapter 23, Subdivisions, are met.
7. No condominium property regime will be allowed, nor will an Ohana Dwelling Unit be permitted or allowed.
8. Any dwelling constructed on any created lot not served by the DWS, shall be provided with and maintain a private rainwater catchment system, which includes a minimum 6,000-gallon water storage capacity for domestic consumption or potable uses. This private water storage system shall adhere to the University of Hawai'i's College of Tropical Agriculture and Human Resources' *"Guidelines on Rainwater Catchment Systems for Hawai'i"*, as well as the DOH requirements related to water testing and water purifying devices.
9. In addition to the 6,000-gallon water storage capacity, for domestic consumption or potable uses, each permitted dwelling on a lot, not served by the DWS, shall also be provided with a **minimum** 3,000 gallon water storage capacity dedicated for firefighting and emergency purposes. The location and capacity of the emergency water supply system, including the necessary compatible fire apparatus connector system and access routes, shall meet with the approval of the HFD. The HFD also advises, as a precautionary measure for other uninhabited structures, that consideration be given to the provision of a similar water storage system for firefighting and emergency purposes.

10. In the event that the County notifies the owner(s) of the lot(s) created, that the County water system has been upgraded or an improvement district initiated to enable service to the lots, the owner(s) of the lots shall participate in such improvement district or shall pay their pro-rata share of the upgrade and installation of laterals, as determined by the DWS.
11. The pending subdivision application's (SUB-18-001818) final plat map shall meet all the requirements of the Hawai'i County Zoning Code and the Subdivision Code that are not covered by this variance.
12. The subdivider, owner(s), their assigns or successors shall pay any outstanding real property taxes and comply with all other applicable State statutes and County ordinances pertaining to building improvements, land use and the public's health, safety and welfare.

Should any of the foregoing conditions not be complied with, the Planning Director may proceed to declare this Variance Permit null and void.

Sincerely,



MICHAEL YEE  
Planning Director

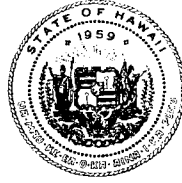
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\\COH33\planning\public\Admin Permits Division\Variance\2018\VAR-18-000492 Kealoha-Lincoln Water\APVL.docx

Encls: Agency Comments, Exhibits A-D

xc: DWS-Engineering Branch  
HFD  
SUB-17-001759  
A. Surprenant, HCDP PPM (via e-mail)

xc w/encls: G. Bailado, GIS Section (via email)



STATE OF HAWAII  
DEPARTMENT OF HEALTH  
P.O. BOX 916  
HILO, HAWAII 96721-0916

2018 SEP 18 PM 10 47  
PLANNING DEPARTMENT  
COUNTY OF HAWAII

MEMORANDUM

DATE: September 17, 2018

TO: Mr. Michael Yee  
Planning Director, County of Hawaii

FROM: Eric Honda *EH*  
District Environmental Health Program Chief

SUBJECT: Application: VARIANCE VAR-18-000492  
Applicant: NEILS CHRISTENSEN, LPLS, THE INDEPENDENT HAWAII  
SURVEYORS, LLC  
Owners: PENELOPE KEALOHA-LINCOLN & SONIA K. LIU  
Request: Variance from Chapter 23, Subdivisions, Article 6,  
Division 2, Section 23-84, Water Supply  
TMK: 4-6-008:024 (SUB-18-001818)

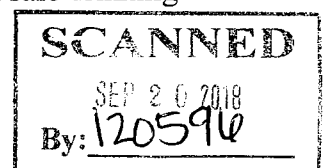
**EXHIBIT**

A

**Public Water Systems:** The Department of Health's Safe Drinking Water Branch authority on drinking water quality is based on the definition of a "public water system." Federal and state regulations define a public water system as a system that serves 25 or more individuals at least 60 days per year or has at least 15 service connections. All public water system owners and operators are required to comply with Hawaii Administrative Rules, Chapter 11-20 (HAR 11-20), and titled "Rules Relating to Public Water Systems". All public water systems are regulated by the Department of Health and shall be in compliance with the Hawaii Administrative Rules, Title 11, Chapter 20. Recommend the subdivision lots be connected to an existing public water system.

Concerns on water quality for lead, copper, algae and microbiological and chemical contaminations in private water systems have identified the need for self monitoring. The Department of Health does not support the use of these private rain catchment systems for drinking purposes since the quality may not meet potable water standards.

All new public water systems are required to demonstrate and meet minimum capacity requirements prior to their establishment, per HAR 11-20-29.5, titled "Capacity Demonstration and Evaluation." This requirement involves demonstration that the system will have satisfactory technical, managerial and financial capacity to enable the system to comply with safe drinking water standards and requirements.





Projects that propose development of new sources of potable water serving or proposed to serve a public water system must comply with the terms of HAR 11-20-29. This section requires that all new public water system sources be approved by the Director of Health (Director) prior to its use. Such approval is based primarily upon the submission of a satisfactory engineering report which addresses the requirements specified in HAR 11-20-29.

The engineering report must identify all potential sources of contamination and evaluate alternative control measures which could be implemented to reduce or eliminate the potential for contamination, including treatment of the water source. In addition, water quality analyses for all regulated contaminants, performed by a laboratory certified by the State Laboratories Division of the State of Hawaii, must be submitted as part of the report to demonstrate compliance with all drinking water standards. Additional parameters may be required by the Director for this submittal or additional tests required upon his or her review of the information submitted.

All sources of public water system sources must undergo a source water assessment which will delineate a source water protection area. This process is preliminary to the creation of a source water protection plan for that source and activities which will take place to protect the source of drinking water.

Projects proposing to develop new public water systems or proposing substantial modifications to existing public water systems must receive construction plans approval by the Director prior to construction of the proposed system or modification in accordance with HAR 11-20-30, titled "New and Modified Public Water Systems". These projects include treatment, storage and distribution systems of public water systems. The approval authority for projects owned and operated by a County Board or Department of Water or Water Supply has been delegated to them.

All public water systems must be operated by certified distribution system and water treatment plant operators as defined by HAR 11-25 titled, "Rules Pertaining to Certification of Public Water System Operators".

All projects which propose the use of dual water systems or the use of a non-potable water system in proximity to an existing potable water system to meet irrigation or other needs must be carefully design and operate these systems to prevent the cross-connection of these systems and prevent the possibility of backflow of water from the non-potable system to the potable system. The two (2) systems must be clearly labeled and physically separated by air gaps or reduced pressure principle backflow prevention devices to avoid contaminating the potable water supply. In addition backflow devices must be tested periodically to assure their proper operation. Further, all non-potable spigots and irrigated areas should be clearly labeled with warning signs to prevent the inadvertent consumption on non-potable water. Compliance with HAR Chapter 11-21, titled Cross-Connection and Backflow Control is also required.

All projects which propose the establishment of a potentially contaminating activity (as identified in the Hawai'i Source Water Assessment Plan) within the source water protection area of an existing source of water for a public water supply should address this potential and activities that will be implemented to prevent or reduce the potential for contamination of the drinking water source.

Michael Yee  
September 17, 2018  
Page 3 of 3

For further information concerning the application of capacity, new source approval, operator certification, source water assessment, backflow/cross-connection prevention or other public water system programs, please contact the SDWB at 586-4258.

Harry Kim  
Mayor



SEP 19 PM 12 35  
FIRE DEPARTMENT  
HAWAII

Darren J. Rosario  
Fire Chief

Lance S. Uchida  
Deputy Fire Chief

**County of Hawai'i**  
**HAWAII FIRE DEPARTMENT**  
25 Aupuni Street • Suite 2501 • Hilo, Hawai'i 96720  
(808) 932-2900 • Fax (808) 932-2928

September 19, 2018

**TO:** MICHAEL YEE, PLANNING DIRECTOR

**EXHIBIT**

**FROM:** DARREN J. ROSARIO, FIRE CHIEF

B

**SUBJECT:** Application: Variance – VAR-18-000492  
Applicant: Niels Christensen, LPLS, The Independent Hawai'i Surveyors  
Owners: Penelope Kealoha-Lincoln & Sonia K. Liu  
Request: Variance from Chapter 23, Subdivisions, Article 6, Division 2  
Improvements Required, Section 23-84, Water Supply  
Tax Map Key: 4-6-008:024 (SUB 18-001818)

In regards to the above-mentioned Variance application, the following shall be in accordance:

**NFPA 1, UNIFORM FIRE CODE, 2006 EDITION**

*Note: Hawai'i State Fire Code, National Fire Protection Association 2006 version, with County of Hawai'i amendments. County amendments are identified with a preceding "C~" of the reference code.*

Chapter 18 Fire Department Access and Water Supply

**18.1 General.** Fire department access and water supplies shall comply with this chapter.

For occupancies of an especially hazardous nature, or where special hazards exist in addition to the normal hazard of the occupancy, or where access for fire apparatus is unduly difficult, or areas where there is an inadequate fire flow, or inadequate fire hydrant spacing, and the AHJ may require additional safeguards including, but not limited to, additional fire appliance units, more than one type of appliance, or special systems suitable for the protection of the hazard involved.

**18.1.1 Plans.**

**18.1.1.1 Fire Apparatus Access.** Plans for fire apparatus access roads shall be submitted to the fire department for review and approval prior to construction.



**18.1.1.2 Fire Hydrant Systems.** Plans and specifications for fire hydrant systems shall be submitted to the fire department for review and approval prior to construction.

**C- 18.1.1.2.1 Fire Hydrant use and Restrictions.** No unauthorized person shall use or operate any Fire hydrant unless such person first secures permission or a permit from the owner or representative of the department, or company that owns or governs that water supply or system. Exception: Fire Department personnel conducting firefighting operations, hydrant testing, and/or maintenance, and the flushing and acceptance of hydrants witnessed by Fire Prevention Bureau personnel.

**18.2.4.2.5** Locks, gates, doors, barricades, chains, enclosures, signs, tags, or seals that have been installed by the fire department or by its order or under its control shall not be removed, unlocked, destroyed, tampered with, or otherwise vandalized in any manner.

### **18.3 Water Supplies and Fire Hydrants**

**18.3.1\*** A water supply approved by the county, capable of supplying the required fire flow for fire protection shall be provided to all premises upon which facilities or buildings, or portions thereof, are hereafter constructed, or moved into or within the county. When any portion of the facility or building is in excess of 150 feet (45 720 mm) from a water supply on a fire apparatus access road, as measured by an approved route around the exterior of the facility or building, on-site fire hydrants and mains capable of supplying the required fire flow shall be provided when required by the AHJ. For on-site fire hydrant requirements see section 18.3.3.

#### **EXCEPTIONS:**

1. When facilities or buildings, or portions thereof, are completely protected with an approved automatic fire sprinkler system the provisions of section 18.3.1 may be modified by the AHJ.
2. When water supply requirements cannot be installed due to topography or other conditions, the AHJ may require additional fire protection as specified in section 18.3.2 as amended in the code.
3. When there are not more than two dwellings, or two private garage, carports, sheds and agricultural. Occupancies, the requirements of section 18.3.1 may be modified by AHJ.

**18.3.2\*** Where no adequate or reliable water distribution system exists, approved reservoirs, pressure tanks, elevated tanks, fire department tanker shuttles, or other approved systems capable of providing the required fire flow shall be permitted.

**18.3.3\*** The location, number and type of fire hydrants connected to a water supply capable of delivering the required fire flow shall be provided on a fire apparatus access road on the site of the premises or both, in accordance with the appropriate county water requirements.

**18.3.4** Fire Hydrants and connections to other approved water supplies shall be accessible to the fire department.

**18.3.5** Private water supply systems shall be tested and maintained in accordance with NFPA 25 or county requirements as determined by the AHJ.

**18.3.6** Where required by the AHJ, fire hydrants subject to vehicular damage shall be protected unless located within a public right of way.

**18.3.7** The AHJ shall be notified whenever any fire hydrant is placed out of service or returned to service. Owners of private property required to have hydrants shall maintain hydrant records of approval, testing, and maintenance, in accordance with the respective county water requirements. Records shall be made available for review by the AHJ upon request.

**C- 18.3.8** Minimum water supply for buildings that do not meet the minimum County water standards:

Buildings up to 2000 square feet, shall have a minimum of 3,000 gallons of water available for Firefighting.

Buildings 2001- 3000 square feet, shall have a minimum of 6,000 gallons of water available for Firefighting.

Buildings, 3001- 6000 square feet, shall have a minimum of 12,000 gallons of water available for Firefighting.

Buildings, greater than 6000 square feet, shall meet the minimum County water and fire flow requirements.

Multiple story buildings shall multiply the square feet by the amount of stories when determining the minimum water supply.

Commercial buildings requiring a minimum fire flow of 2000gpm per the Department of Water standards shall double the minimum water supply reserved for firefighting.

Fire Department Connections (FDC) to alternative water supplies shall comply with 18.3.8 (1)-(6) of *this code*.

**NOTE: In that water catchment systems are being used as a means of water supply for firefighting, such systems shall meet the following requirements:**

- 1) In that a single water tank is used for both domestic and firefighting water, the water for domestic use shall not be capable of being drawn from the water reserved for firefighting;
- 2) Minimum pipe diameter sizes from the water supply to the Fire Department Connection (FDC) shall be as follows:
  - a) 4" for C900 PVC pipe;
  - b) 4" for C906 PE pipe;
  - c) 3" for ductile Iron;
  - d) 3' for galvanized steel.
- 3) The Fire Department Connection (FDC) shall:
  - a) be made of galvanized steel;
  - b) have a gated valve with 2-1/2 inch, National Standard Thread male fitting and cap;
  - c) be located between 8 ft and 16 ft from the Fire department access. The location shall be approved by the AHJ;
  - d) not be located less than 24 inches, and no higher than 36 inches from finish grade, as measured from the center of the FDC orifice;
  - e) be secure and capable of withstanding drafting operations. Engineered stamped plans may be required;
  - f) not be located more than 150 feet of the most remote part, but not less than 20 feet, of the structure being protected;
  - g) also comply with section 13.1.3 and 18.2.3.4.6.1 of *this code*.
- 4) Commercial buildings requiring a fire flow of 2000gpm shall be provided with a second FDC. Each FDC shall be independent of each other, with each FDC being capable of flowing 500gpm by engineered design standards. The second FDC shall be located in an area approved by the AHJ with the idea of multiple Fire apparatus' conducting drafting operations at once, in mind.
- 5) Inspection and maintenance shall be in accordance to NFPA 25.
- 6) The owner or lessee of the property shall be responsible for maintaining the water level, quality, and appurtenances of the system.

Michael Yee  
September 19, 2018  
Page 5

**EXCEPTIONS TO SECTION 18.3.8:**

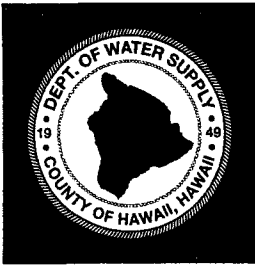
- 1) Agricultural buildings, storage sheds, and shade houses with no combustible or equipment storage.
- 2) Buildings less than 800 square feet in size that meets the minimum Fire Department Access Road requirements.
- 3) For one and two family dwellings, agricultural buildings, storage sheds, and detached garages 800 to 2000 square feet in size, and meets the minimum Fire Department Access Road requirements, the distance to the Fire Department Connection may be increased to 1000 feet.
- 4) For one and two family dwellings, agricultural buildings, and storage sheds greater than 2000square feet, but less than 3000 square feet and meets the minimum Fire Department Access Road requirements, the distance to the Fire Department Connection may be increased to 500 feet.
- 5) For buildings with an approved automatic sprinkler system, the minimum water supply required may be modified.

If there are any questions regarding these requirements, please contact the Fire Prevention Bureau at (808) 323-4760.



DARREN J. ROSARIO  
Fire Chief

CB:ds



**DEPARTMENT OF WATER SUPPLY • COUNTY OF HAWAII**

345 KEKŪANAŌ'A STREET, SUITE 20 • HILO, HAWAII 96720  
TELEPHONE (808) 961-8050 • FAX (808) 961-8657

September 26, 2018

**TO:** Mr. Michael Yee, Director  
Planning Department

**FROM:** Keith K. Okamoto, Manager–Chief Engineer

**SUBJECT:** Variance Application (VAR 18-000492)  
Applicant – Kealoha-Lincoln, Penelope and Sonia K. Liu  
Tax Map Key 4-6-008:024 (SUB 18-001818)

2018 SEP 26 pm 3 54  
PLANNING DEPARTMENT  
COUNTY OF HAWAII

We have reviewed the subject application and have the following comments and conditions.

The requirements from our memorandum to your department and copied to the Independent Hawaii Surveyors, LLC, dated June 18, 2018, regarding the proposed subdivision, still stand.

Should there be any questions, please contact Mr. Troy Samura of our Water Resources and Planning Branch at 961-8070, extension 255.

Sincerely yours,

Keith K. Okamoto, P.E.  
Manager-Chief Engineer

TS:dfg

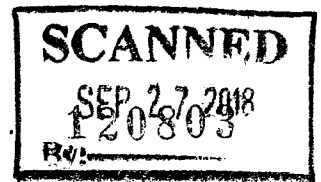
copy - The Independent Hawaii Surveyors, LLC  
Ms. Penelope Kealoha-Lincoln and Ms. Sonia K. Liu

**EXHIBIT**

C

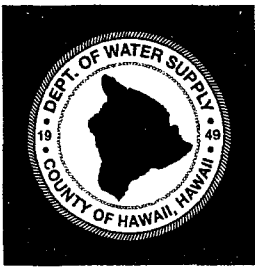
... Water, Our Most Precious Resource ... Ka Wai A Kāne ...

The Department of Water Supply is an Equal Opportunity provider and employer.



27/2/18 AK





**DEPARTMENT OF WATER SUPPLY • COUNTY OF HAWAII**

345 KEKŪANAŌ'A STREET, SUITE 20 • HILO, HAWAII 96720

TELEPHONE (808) 961-8050 • FAX (808) 961-8657

June 18, 2018

2018 JUN 20 PM 4 15  
PLANNING DEPARTMENT  
COUNTY OF HAWAII

TO: Mr. Michael Yee, Director  
Planning Department

FROM: Keith K. Okamoto, Manager-Chief Engineer

SUBJECT: Preliminary Plat Map and Defer Action  
Applicant – Kealoha-Lincoln, Penelope and Sonia K. Liu  
Tax Map Key 4-6-008:024 (SUB 18-001818)

We have reviewed the subject application and have the following comments and conditions.

There is an existing 6-inch waterline within Kahana Drive fronting the subject parcel. The subject parcel is served by an existing 5/8-inch meter (Account No. 630-28900).

Please be informed that water availability in this area is limited to one (1) unit of water, or one (1) 5/8-inch meter, per existing lot of record, which is limited to an average daily usage of 400 gallons. Each unit of water is equal to an average of 400 gallons per day, which is suitable for only one single-family dwelling.


Therefore, the Department's existing water system facilities cannot support the proposed subdivision at this time. Extensive improvements and additions, which may include, but not be limited to, source, storage, booster pumps, transmission, and distribution facilities, would be required.

Furthermore, the Department requests that the plat map be revised to show the location of the existing meter with the meter number, so that we can verify this service is assigned to the subject parcel. The applicant will be required to designate, in writing, which lot within the proposed subdivision will be assigned the existing meter. Should the existing meter or service lateral not front the parcel that it will serve, the existing meter or service lateral would need to be relocated to comply with the Department's Rules and Regulations.

Furthermore, the applicant shall be informed that the existing meter shall not be shared with the other proposed lots; and the water system piping between the lots shall not be interconnected in any way.

Should there be any questions, please contact Mr. Troy Samura of our Water Resources and Planning Branch at 961-8070, extension 255.

Sincerely yours,

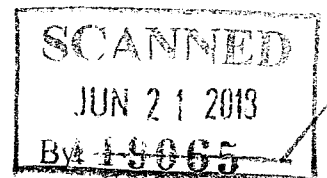
  
Keith K. Okamoto, P.E.  
Manager-Chief Engineer

**EXHIBIT**

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copy - The Independent Hawaii Surveyors, LLC  
Ms. Penelope Kealoha-Lincoln



... Water, Our Most Precious Resource ... Ka Wai A Kāne ...

The Department of Water Supply is an Equal Opportunity provider and employer.

4-6-008-024