

William P. Kenoi
Mayor



BJ Leithead Todd
Director

Margaret K. Masunaga
Deputy

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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

June 12, 2012

Chrystal Thomas Yamasaki, L.P.L.S.
Wes Thomas Associates
75-5749 Kalawa Street
Kailua-Kona, HI 96740

Dear Ms. Yamasaki:

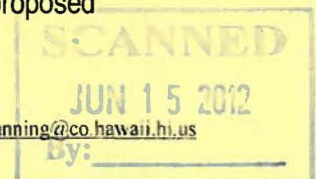
SUBJECT: VARIANCE DECISION VAR-12-000051
Applicant: WES THOMAS ASSOCIATES
Owner: PATRICK SULLIVAN
Request: Variance from Chapter 23, Subdivisions, Article 6,
Division 2, Improvements Required
TMK: 4-7-007:088 (SUB 12-001153)

Upon review of your variance application, the Planning Director certifies the **approval**, with modifications and conditions, of VAR-12-000051 from Hawai'i County Code, Chapter 23, Subdivisions, Article 6, Division 2, Improvements Required, Section 23-84, Water Supply, (1)(2), based on the following background information and findings.

BACKGROUND

- 1. Location.** The subject property, comprising approximately 202.39 acres, concerns the subdivision of Lot B-1-B, Being a Portion of Deed of Kamehameha IV (Certificate of Boundaries No. 34). The property is situated at Lalakea, "Ili Kuponu of Waipi'o, Hāmākua, Hawai'i.
- 2. Land Use Designations.** The subject property is zoned Agricultural – forty acres (A-40a) by the County and designated Agricultural ("A") by the State Land Use Commission (LUC).
- 3. Subdivision Request/PPM.** The applicant or subdivider submitted a proposed subdivision application (SUB-12-001153) and preliminary plat map (PPM), dated January 17, 2012, to subdivide subject property into three (3) lots.
- 4. Variance Application.** The request for a variance from water supply, to permit the proposed

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subdivision was acknowledged by Planning Department letter dated April 12, 2012. This variance application includes background history, circumstances and information regarding the pending subdivision application.

5. Variance Application-VAR-12-000051 - Agency Comments and Requirements:

- a. The State of Hawai'i Department of Health (DOH): See attached memorandum dated April 20, 2012.
 - b. The Hawaii Fire Department (HFD): See attached memorandum dated May 1, 2012. Refer to HFD memorandum in variance file.
 - c. The Department of Water Supply (DWS): See attached memorandum dated April 25, 2012. They also reference their memorandum of May 11, 2012 in response to the subdivision preliminary plat map (SUB-12-001153) indicating that previous variance conditions of VAR-09-000055, with regard to SUB-09-000926, still apply. Their original response to SUB-09-000926 was that "... there is no water system in the area."
6. **Notice to Surrounding Owners.** The applicant's agent filed a transmittal letter dated April 20, 2012 and attached mailing receipts indicating notice was sent to surrounding property owner(s) within 300 feet of the subject property. Notice of this application was published in the Hawai'i Tribune Herald and West Hawai'i Today on April 20, 2012. The applicant's agent submitted an affidavit, dated February 3, 2012, regarding sign posted on the subject property and photograph of the posted sign.
7. **Comments from Surrounding Property Owners or Public.** No other agency comments were solicited or received. No written objections to the application were received from the surrounding property owners or the public.

ALTERNATIVES/SPECIAL AND UNUSUAL CIRCUMSTANCES

Water Supply. The first alternative would require the applicant to extend and/or improve the nearest DWS water system and provide the necessary dedicable water system improvements in accordance with DWS standards.

The second alternative would be to design, drill and develop private wells and install the necessary dedicable water system improvements in accordance with DWS standards.

The cost to construct additional dedicable water supply improvements in accordance with the DWS standards, or alternative private water system meeting DWS standards for the pending 3-lot subdivision, would be putting excessive demands upon the applicant or owners when a more reasonable alternative (e.g. private individual rainwater catchment system for potable and emergency requirements) for agricultural zoned parcels can be permitted pursuant to Planning Department Rule No. 22, Water Variance.

INTENT AND PURPOSE-WATER VARIANCE

Water Variance. The intent and purpose of requiring a water system for and within the proposed subdivision is to assure that adequate water is available for human consumption and fire protection.

Section 23-84 of the Subdivision Code requires that all new subdivisions have a water system meeting with the minimum requirements of the DWS. The DOH has no specific rules or regulations relating to the utilization, construction or inspection of private rain catchment water systems for potable or emergency uses.

An alternative from meeting the minimum requirements of the DWS is to allow privately-owned individual rain water catchment systems for up to six-lot subdivisions, pursuant to Planning Department Rule No. 22 – Water Variance. Rule No. 22 identifies, in part that the variance "...applies to requests for subdivisions that propose to rely on rain catchment for their water supply, on agriculturally zoned properties..." Also, "Rule 22-4 Minimum rainfall. ... all lots to be served by catchment shall have an average annual rainfall of not less than 60" ..." The proposed subdivision or subject property is located in an area that receives approximately 80 inches to 120 inches of annual rainfall.

Given the circumstances that the subject neighborhood receives sufficient 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. Furthermore, it is felt that this water variance will not be materially detrimental to the public's welfare and will not cause substantial adverse impact to the area's character and to adjoining properties.

VARIANCE DECISION – CONDITIONS

VAR-12-000051 to allow a proposed 3-lot subdivision of the subject property without providing a dedicable water system meeting DWS standards to the proposed lots is **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. **Water Variance.** The owners, their assigns, or successors shall file a written agreement document with the Planning Department prior to receipt of final subdivision approval of SUB-12-001153. This written agreement shall contain the following deed language, being covenants, conditions, and restrictions affecting the lot(s) not serviced by a County water system and shall be duly recorded at the Bureau of Conveyances of the State of Hawai'i by the Planning Department at the cost and expense of the owners:
 - a. The owners agree and accept the fact that a County dedicable public water system is not able to service the proposed subdivision.
 - b. 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.

- c. The owners agree and accept the fact that the County will not bear the responsibility of supplying public water to the proposed lot(s) not serviced by a County water system. No further subdivision of the lots created will be permitted unless county water system requirements and other requirements of Chapter 23, Subdivisions, are met.
- d. Any lots created may not be made subject to a condominium property regime.
- e. Any dwelling constructed on a proposed lot not serviced by a County water system shall be provided with and maintain a private rainwater catchment system which includes a minimum 6000-gallon water storage capacity for domestic consumption or potable uses. This private water catchment 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.
- f. Each permitted dwelling shall be provided with and maintain a private water supply system which includes an additional **minimum** 3,000 gallon water storage capacity, or as specified by the HFD memorandum dated May 1, 2012 (attached for reference at the end of this permit) for firefighting and emergency purposes. The location and capacity of the emergency water supply system, including the necessary compatible connector system, shall meet with the approval of the HFD. The HFD also advises as a precautionary measure for other uninhabited agricultural structures that consideration be given to the provision of a similar water storage system for firefighting and emergency purposes.
- g. 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 written or 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 or ownership of the existing property or approved subdivided lots.
- h. 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 these lots, the owner(s) of the lot(s) 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.
- i. The subdivider and all grantees, successors, and assigns acknowledge that the parcel was created by a variance from the normal subdivision requirements of Hawai'i County, and that there are no special or unusual circumstances applying to the property which deprive the owner of substantial

Chrystal Thomas Yamasaki, L.P.L.S.
Wes Thomas Associates
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property rights or to a degree which obviously interferes with the best use or manner of development of the property, and hence, no grounds exist or will exist for a variance from the subdivision code to permit further subdivision of the property, and that changes in the owner's personal or financial situation after acquiring the property also will not constitute grounds for a variance from the subdivision code to permit further subdivision of the property.

3. The subdivision application's final plat map shall meet all the requirements of the Hawai'i County Zoning Code and the Subdivision Code not covered by this variance. No other variance from Chapter 23, Subdivisions, shall be granted to permit subdivision application SUB-12-001153.
4. 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 and land use.

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

Sincerely,



BJ LEITHEAD TODD
Planning Director

JRH:nci

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xc: Manager, DWS
 SUB-12-001153

Patrick Sullivan
P.O. Box 1198
Kamuela, HI 96743

PLANNING DEPARTMENT
William F. Kynol
Mayor

797 MAY 15 AM 9:28



Darren J. Rosario
Fire Chief

Renwick J. Victorino
Deputy Fire Chief

County of Hawai'i
HAWAII FIRE DEPARTMENT
25 August Street • Room 2501 • Hilo, Hawaii 96720
(808) 932-2900 • Fax (808) 932-2928

May 1, 2012

TO: BJ LEITHEAD TODD, PLANNING DIRECTOR
FROM: DARREN J. ROSARIO, FIRE CHIEF
SUBJECT: VARIANCE APPLICATION (VAR 12-000051)
AGENT: WES THOMAS ASSOCIATES
OWNER: PATRICK SULLIVAN
REQUEST: VARIANCE FROM CHAPTER 23, SUBDIVISIONS, ARTICLE 6,
DIVISION 2, IMPROVEMENTS REQUIRED
TAX MAP KEY: 4-7-0070:088 (SUB 12-001153)

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

NFPA 1, UNIFORM FIRE CODE, 2006 EDITION

Note: NFPA 1, Hawai'i State Fire Code with County 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.



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NEIL ABERCROMBIE
PLANNING DEPARTMENT

797 MAY 15 AM 9:48



LORETTA J. FUDDY, A.C.S.W., M.P.H.
Director of Health

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

MEMORANDUM

DATE: April 20, 2012
TO: Bobby Jean Leithead Todd
Planning Director, County of Hawaii
FROM: Newton Inouye
District Environmental Health Program Chief
SUBJECT: Variance Application-VAR 12-000051
Applicant: Wes Thomas Associates
Owner: Patrick Sullivan
Request: Variance from Chapter 23, Subdivisions,
Article 6, Division 2, Improvements Required
TMK: 4-7-007:088 (SUB 12-001153)

The Department of Health's Safe Drinking Water Branch authority on drinking water quality is based on the definition of a "public water system." A "public water system" means a system which provides water for human consumption through pipe or other constructed conveyance if such system has fifteen (15) service connections or regularly serves an average of at least twenty-five (25) individuals daily at least sixty (60) days out of the year. 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.

WORD:VAR-12-000051.ai

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BJ Leithead Todd
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18.2.3.1.4 When fire department access roads cannot be installed due to location on property, topography, waterways, nonnegotiable grades, or other similar conditions, the AHJ shall be authorized to require additional fire protection features.

18.2.3.2 Access to Building.

18.2.3.2.1 A fire department access road shall extend to within in 50 ft (15 m) of at least one exterior door that can be opened from the outside and that provided access to the interior of the building.

18.2.3.2.1.1 When buildings are protected throughout with an approved automatic sprinkler system that is installed in accordance with NFPA 13, NFPA 13D, or NFPA 13R, the distance in 18.2.3.2.2 shall be permitted to be increased to 300 feet.

18.2.3.2.2 Fire department access roads shall be provided such that any portion of the facility or any portion of an exterior wall of the first story of the building is located not more than 150 ft (46 m) from fire department access roads as measured by an approved route around the exterior of the building or facility.

18.2.3.2.2.1 When buildings are protected throughout with an approved automatic sprinkler system that is installed in accordance with NFPA 13, NFPA 13D, or NFPA 13R, the distance in 18.2.3.2.2 shall be permitted to be increased to 450 ft (137 m).

18.2.3.3 Multiple Access Roads. More than one fire department access road shall be provided when it is determined by the AHJ that access by a single road could be impaired by vehicle congestion, condition of terrain, climatic conditions, or other factors that could limit access.

18.2.3.4 Specifications.

18.2.3.4.1 Dimensions.

C~ 18.2.3.4.1.1 FDAR shall have an unobstructed width of not less than 20ft with an approved turn around area if the FDAR exceeds 150 feet. Exception: FDAR for one and two family dwellings shall have an unobstructed width of not less than 15 feet, with an area of not less than 20 feet wide within 150 feet of the structure being protected. An approved turn around area shall be provided if the FDAR exceeds 250 feet.

C~ 18.2.3.4.1.2 FDAR shall have an unobstructed vertical clearance of not less than 13ft 6 in.

C~ 18.2.3.4.1.2.1 Vertical clearances may be increased or reduced by the AHJ, provided such increase or reduction does not impair access by the fire apparatus, and approved signs are installed and maintained indicating such approved changes.

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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 Fire Department Access.

18.2.1 Fire department access and fire department access roads shall be provided and maintained in accordance with Section 18.2.

18.2.2* Access to Structures or Areas.

18.2.2.1 Access Box(es). The AHJ shall have the authority to require an access box(es) to be installed in an accessible location where access to or within a structure or area is difficult because of security.

18.2.2.2 Access to Gated Subdivisions or Developments. The AHJ shall have the authority to require fire department access be provided to gated subdivisions or developments through the use of an approved device or system.

18.2.2.3 Access Maintenance. The owner or occupant of a structure or area, with required fire department access as specified in 18.2.2.1 or 18.2.2.2, shall notify the AHJ when the access is modified in a manner that could prevent fire department access.

18.2.3 Fire Department Access Roads.

18.2.3.1 Required Access.

18.2.3.1.1 Approved fire department access roads shall be provided for every facility, building, or portion of a building hereafter constructed or relocated.

18.2.3.1.2 Fire Department access roads shall consist of roadways, fire lanes, parking lots lanes, or a combination thereof.

18.2.3.1.3* When not more than two one- and two-family dwellings or private garages, carports, sheds, agricultural buildings, and detached buildings or structures 400R² (37 m²) or less are present, the requirements of 18.2.3.1 through 18.2.3.2.1 shall be permitted to be modified by the AHJ.

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18.2.3.4.6.3 Fire department access roads connecting to roadways shall be provided with curbs extending at least 2 ft (0.61 m) beyond each edge of the fire lane.

18.2.3.4.7 Traffic Calming Devices. The design and use of traffic calming devices shall be approved the AHJ.

18.2.3.5 Marking of Fire Apparatus Access Road.

18.2.3.5.1 Where required by the AHJ, approved signs or other approved notices shall be provided and maintained to identify fire department access roads or to prohibit the obstruction thereof of both.

18.2.3.5.2 A marked fire apparatus access road shall also be known as a fire lane.

18.2.4* Obstruction and Control of Fire Department Access Road.

18.2.4.1 General

18.2.4.1.1 The required width of a fire department access road shall not be obstructed in any manner, including by the parking of vehicles.

18.2.4.1.2 Minimum required widths and clearances established under 18.2.3.4 shall be maintained at all times.

18.2.4.1.3* Facilities and structures shall be maintained in a manner that does not impair or impede accessibility for fire department operations.

18.2.4.1.4 Entrances to fire departments access roads that have been closed with gates and barriers in accordance with 18.2.4.2.1 shall not be obstructed by parked vehicles.

18.2.4.2 Closure of Accessways.

18.2.4.2.1 The AHJ shall be authorized to require the installation and maintenance of gates or other approved barricades across roads, trails, or other accessways not including public streets, alleys, or highways.

18.2.4.2.2 Where required, gates and barricades shall be secured in an approved manner.

BJ Leithead Todd
May 1, 2012
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18.2.3.4.1.2.2 Vertical clearances shall be increased when vertical clearances or widths are not adequate to accommodate fire apparatus.

C- 18.2.3.4.2 Surface. Fire department access roads and bridges shall be designed and maintained to support the imposed loads (25 Tons) of the fire apparatus. Such FDAR and shall be comprised of an all-weather driving surface.

18.2.3.4.3 Turning Radius.

C- 18.2.3.4.3.1 Fire department access roads shall have a minimum inside turning radius of 30 feet, and a minimum outside turning radius of 60 feet.

18.2.3.4.3.2 Turns in fire department access road shall maintain the minimum road width.

18.2.3.4.4 Dead Ends. Dead-end fire department access roads in excess of 150 ft (46 m) in length shall be provided with approved provisions for the fire apparatus to turn around.

18.2.3.4.5 Bridges.

18.2.3.4.5.1 When a bridge is required to be used as part of a fire department access road, it shall be constructed and maintained in accordance with county requirements.

18.2.3.4.5.2 The bridge shall be designed for a live load sufficient to carry the imposed loads of fire apparatus.

18.2.3.4.5.3 Vehicle load limits shall be posted at both entrances to bridges where required by the AHJ.

18.2.3.4.6 Grade.

C- 18.2.3.4.6.1 The maximum gradient of a Fire department access road shall not exceed 12 percent for unpaved surfaces and 15 percent for paved surfaces. In areas of the FDAR where a Fire apparatus would connect to a Fire hydrant or Fire Department Connection, the maximum gradient of such area(s) shall not exceed 10 percent.

18.2.3.4.6.2* The angle of approach and departure for any means of fire department access road shall not exceed 1 ft drop in 20 ft (0.3 m drop in 6 m) or the design limitations of the fire apparatus of the fire department, and shall be subject to approval by the AHJ.

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;

18.2.4.2.3 Roads, trails, and other accessways that have been closed and obstructed in the manner prescribed by 18.2.4.2.1 shall not be trespassed upon or used unless authorized by the owner and the AHJ.

18.2.4.2.4 Public officers acting within their scope of duty shall be permitted to access restricted property identified in 18.2.4.2.1.

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.

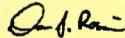
18.3.4 Fire Hydrants and connections to other approved water supplies shall be accessible to the fire department.

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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) 932-2912.



DARREN J. ROSARIO
Fire Chief

RP/lc

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- (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.

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



DEPARTMENT OF WATER SUPPLY • COUNTY OF HAWAII
 345 KEKŪANAŌA STREET, SUITE 20 • HILO, HAWAII 96720
 TELEPHONE (808) 981-8050 • FAX (808) 981-8657

October 19, 2009

TO: Ms. BJ Leithead Todd, Planning Director
 Planning Department

FROM: Milton D. Pavao, Manager

SUBJECT: SUBDIVISION APPLICATION NO. 09-000926
 APPLICANT - LALAKEA FARMS, LLC
 TAX MAP KEY 4-7-007:088

PLANNING DEPARTMENT
 COUNTY OF HAWAII
 2009 OCT 22 PM 1:10

We have reviewed the subject application.

Please be informed there is no water system in the area.

Should there be any questions, please contact Mr. William Atkins of our Water Resources and Planning Branch at 961-8070, extension 254.

Sincerely yours,

Milton D. Pavao, P.E.
 Manager

WA:dfg

copy - Lalakea Farm, LLC
 R.M. Towill Corporation

057478

...Water, Our Most Precious Resource... *Ka Wai A Kane*...
The Department of Water Supply is an Equal Opportunity provider and employer.



DEPARTMENT OF WATER SUPPLY • COUNTY OF HAWAII
 345 KEKŪANAŌA STREET, SUITE 20 • HILO, HAWAII 96720
 TELEPHONE (808) 981-8050 • FAX (808) 981-8657

May 14, 2012

TO: Ms. BJ Leithead Todd, Director
 Planning Department

FROM: Quirino Antonio, Jr., Manager - Chief Engineer

SUBJECT: VARIANCE APPLICATION (VAR 12-000051)
 SUBDIVISION APPLICATION NO. 12-001153
 APPLICANT - WES THOMAS ASSOCIATES
 TAX MAP KEY 4-7-007:088

PLANNING DEPARTMENT
 COUNTY OF HAWAII
 2012 MAY 16 PM 3:56

We have reviewed the subject application and please refer to our memorandum to you, dated May 11, 2012.

We have no objection to the use of rainwater catchment systems; however, we cannot approve or comment as to the adequacy of those systems as they do not meet the requirements of Water System Standards. We recommend that you consult the County of Hawaii's, Planning Department, County of Hawaii's, Department of Public Works, and/or the State of Hawaii's, Department of Health to determine any other guidelines, recommendations, or regulations regarding the use of rainwater catchment systems.

Should there be any questions, please contact Mr. Ryan Quitoriano of our Water Resources and Planning Branch at 961-8070, extension 256.

Sincerely yours,

Quirino Antonio, Jr., P.E.
 Manager-Chief Engineer

RQ:dfg

copy - Patrick Sullivan
 Wes Thomas Associates

078622

...Water, Our Most Precious Resource... *Ka Wai A Kane*...
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