William P. Kenoi

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County of Hawai'i

PLANNING DEPARTMENT

Duane Kanuha Director

Bobby Command Deputy Director

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

May 5, 2014

Melanie DeMello, P.E. Okahara and Associates, Inc. 200 Kohola Street Hilo, HI 96720-4323

Dear Ms. DeMello:

SUBJECT:

Application:

VARIANCE DECISION VAR-14-000197

Agent:

MELANIE DEMELLO, P.E., OKAHARA & ASSOCIATES, INC.

Owner:

SHERYL B. SEAMAN

Request:

Variance from Chapter 23, Subdivisions, Article 6, Division 2,

Improvements Required, Section 23-84, Water Supply

Tax Map Key:

4-4-011:083

(SUB-13-001308)

Upon review of your variance application, the Planning Director certifies the **approval** of Variance VAR-14-000197 subject to variance conditions. The variance grants relief for SUB-13-001308 from constructing minimum County dedicable water supply system improvements 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 TMK property, Lot 5, Ka 'āpahu Homesteads, also being All of Grant 4,070, containing approximately 21.937 acres, is situated in Ka 'āpahu, Hāmākua, Hawai'i.
- 2. County Zoning. Agricultural five acres minimum (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).

Melanie DeMello, P.E. Okahara and Associates, Inc. Page 2 May 5, 2014

- 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-13-001308 was submitted to subdivide Lot 5 into 4 lots consistent with the A-5a zoning. Further action on the subdivision application was deferred pursuant to letter dated January 14, 2014 in the subdivision file.
- 7. Variance Application. The variance request from water supply improvements was acknowledged by Planning Department letter dated March 13, 2014. This variance application requests the use of the one existing DWS service which is "out of bounds" and individual rainwater catchment systems for three of the proposed lots in lieu of extending and/or upgrading the DWS water system or constructing a private water system conforming to DWS standards.
- 8. Agency Comments and Requirements.
 - a. State of Hawai'i-Department of Health (DOH): see attached memorandum dated March 14, 2014.
 - b. County of Hawai'i Fire Department (HFD): see attached memorandum dated March 27, 2014.
 - c. Department of Water Supply (DWS): see attached memorandum dated January 8, 2014 in response to the subdivision application.
 - d. No other agency comments were solicited and none were received.
- 9. Notice to Surrounding Owners/Posted Sign. The applicant submitted evidence, dated March 17, 2014, regarding the posting of a public notification sign on the subject property pursuant to Section 23-17(c) of the HCC. Pictures of the posted sign were also submitted. Further, verification was submitted that a notice of the application was sent on March 18, 2014 to the surrounding property owners as required by Section 23-17(a).
- 10. Comments from Surrounding Property Owners or Public. No written objections to this application were received from the surrounding property owners or the public.

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

Melanie DeMello, P.E. Okahara and Associates, Inc. Page 3 May 5, 2014

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 four (4) lots in keeping with the existing A-5a zoning. Although a dedicable water system is a requirement of the code, the subject property can not be further served by the existing DWS system facilities, and it would be unreasonable to expect the owners to upgrade the existing DWS water system. At some 1,000 feet above mean sea level, it would be prohibitive to drill wells and provide other water system infrastructure to DWS standards. Therefore, it is reasonable that, 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 4-lot subdivision, a more reasonable alternative can be allowed pursuant Rule 22 and the filing of an "out of bounds" agreement with the DWS.

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 rural, agricultural subdivision, the best use and manner of the development allows for the use of individual rainwater catchment systems and an "out of bounds" agreement for one of the lots.

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

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

Constructing water system improvements to either extend/upgrade the DWS facilities or provide a private water system to DWS standards for the pending 4-lot subdivision would be placing excessive demands upon the applicant because of the extensive improvements required to the existing DWS water system facilities.

Therefore, there are no reasonable alternatives that would resolve the difficulty.

(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):

For this rural, agricultural subdivision, given that there is adequate rainfall (approximately 80 to 120 inches of rainfall annually) to support individual water catchment and this is a rural subdivision, the granting of this variance would be consistent with the general purpose of the district. Water catchment is consistent with the

Melanie DeMello, P.E. Okahara and Associates, Inc. Page 4 May 5, 2014

intent of the policies of the general plan for this agricultural area. This will not be materially detrimental to the public welfare as it serves only private parties. Granting of the variance will not cause substantial, adverse impact to the area's character or to adjoining properties as rainwater catchment is the norm for this area. It may actually be beneficial to the area by reducing rain water runoff.

Given that the subject property has 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, Planning Department Rule 22 and the Hawai'i County General Plan.

DETERMINATION-VARIANCE CONDITIONS

The variance to permit the proposed 4-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, as outlined in this variance, affecting the 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 Bureau of Conveyances of the State of Hawai'i by the subdivider at their cost and expense. A copy of the recorded document shall be provided to the Planning Department.

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

Melanie DeMello, P.E. Okahara and Associates, Inc. Page 5 May 5, 2014

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.

- 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-13-001308.
- 6. The owners, grantees, successors, and assigns agree and accept the fact that the County will not bear the responsibility of supplying dedicable public water improvements to the proposed lots. No further subdivision of the lots created 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 shall be allowed on any lot created, nor shall an Ohana Dwelling Unit be permitted or allowed.
- 8. Any dwelling constructed on any created lot not associated with the "out of bounds" agreement 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. Each permitted dwelling shall also be provided with a minimum 3,000 gallon water storage capacity dedicated for fire fighting and emergency purposes. The location and capacity of the emergency water supply system, including the necessary compatible fire apparatus connector system, shall be as required by 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 fire fighting 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 dedicable service to these lots, the owner(s) of 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.
- 11. The pending subdivision application's (SUB-13-001308) 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

Melanie DeMello, P.E. Okahara and Associates, Inc. Page 6 May 5, 2014

comply with all other applicable State statutes and County ordinances pertaining to building improvements and land use.

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

Sincerely,

DUANE KANUHA Planning Director

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Encls:

Agency Comments

XC:

DWS-Engineering Branch

SUB-13-001308

xc w/encls:

Sheryl B. Seaman 150 Kuuala Street Kailua, HI 96734

C. Kay, HCDP Planner (via e-mail) G. Bailado, GIS Section (via email)

William P. Kenol



Reputek J. Victoriae Samp Pr Chy Darren J. Rosaulo Per Cher

County of Hawai'i

March 27, 2014

HAWALT FIRE DEPARTMENT 25 August 5 Erest + Rose 1551 + 1246, Inself 96729 (500) 722-700 + Fur (500) 722-723

DUANE KANUHA, PLANNING DIRECTOR ë

DARREN J. ROSARJO, FIRE CHIEF FROM

VARIANCE APPLICATION (VAR 14-000197) SUBJECT:

AGENT: MELANIE DEMELLO, P.E., OKAHARA & ASSOCIATES, INC.

OWNER: SHERYI, B SEAMAN REQUEST: VARIANCE FROM CHAPTER 23, SUBDIVISIONS, ARTICLE 6, DIVISION 2, IMPROVEMENTS REQUIRED, SECTION 23-84 WATER

TAX MAP KEY: 12-4-004:072 (SUB 12-001204)

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

NEPA 1, UNIFORM FIRE CODE, 2006 EDITION
Note: NFPA 1, Hawaii'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.

AHJ may require additional safeguards including, but not limited to, additional fire appliance 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 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 Five Hydranat 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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STATE OF HAWAII DEPARTMENT OF HEALTH P.O. BOX 918 HILO, HAWAS 96721-0916

MEMORANDUM

March 14, 2014 DATE

Duane Kanuha

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Planning Director, County of Hawaii

Newton Inouye N

FROM:

District Environmental Health Program Chief

MELANTE DEMELLO, P.E., OKAHARA &ASSOCIATES, INC. VARIANCE (VAR-14-000197) Application: SUBJECT:

Variance from Chapter 23, Subdivisions, Article 6, Division 2, SHERYL B. SEAMAN Request: Owner

Improvements Required, Section 23-84, Water Supply Tax Map Key: 4-4-011:083 (SUB-13-001308)

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 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 existing public water system.

Standards for potable drinking water for human consumption. The U.S. Environmental Protection Agency (EPA) defines human consumption to include drinking, bathing, showering, drinking water purposes since the quality may not meet National Primary Drinking Water 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 Concerns on water quality for lead, copper, algae and microbiological and chemical cooking, dishwashing, maintaining oral hygiene and includes hand washing,

WORD: VAR-14:000197 ni

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Henric's County is an Equal Opportunity Proceeds and Employer

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Duarre Kanuha March 27, 2014 Page 3 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 \$0.8 (15 m) of at least one exterior door that can be opened from the outside that provides access to the interior of the building. Exception: 1 and 2 single-family dwellings.

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 18.2.3.2.1 shall be permitted to be increased to 300 feet.

18.2.3.2. 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 AHI 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. Exceptions: 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 run around area shall be provided if the FDAR exceeds 250 feet.

 $C\sim18.2.3.4.1.2~{
m FDAR}$ shall have an unobstructed vertical clearance of not less then 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.

Duane Kanuha March 27, 2014 Page 2 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 AHI 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. (*may be referred as FDAR)

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, curports, scheds, agricultural buildings, and detached buildings or structures 400ff (37 m²) or less are execut, the requirements of 18.2.3.1 through 18.2.3.2.1 shall be permitted to be modified by the

Duane Kanuha March 27, 2014 Page 5

18.2.3.46.3 Fire department access roads connecting to roadways shall be provided with curb cuts extending at least 2 R (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 AHI, 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* Pacilities 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 AEU 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.

Duane Kanuha March 27, 2014 Page 4

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 furning 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. 182.3.4.5.3 Vehicle load limits shall be posted at both entrances to bridges where required by the

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 AHI.

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Duane Kanuha March 27, 2014 Page 7 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 AHI, 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 minimuro 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;

Duane Kanuha March 27, 2014 Page 6 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 A H I

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 Looks, 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 say 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 70 150 feet (45 720 mm) from a water supply on a fire apparants 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:

- 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 AHI.
- 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.
- 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 AHI.
- 18.3.3.* Where no adequate or reliable water distribution system exists, approved reservoirs, pressure tanks, clevated 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 hydrauts 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 Hydranis and connections to other approved water supplies shall be accessible to the fire department.

Duane Kanuha March 27, 2014 Page 9

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 sprinklet system, the minimum water

supply required may be modified.

Alternatively, if there is an accessible fire hydrant within in 600 feet of the property fromage that may be used in lieu of the above described water supply requirements. If there are any questions regarding these requirements, please contact the Fire Prevention Bureau at (808) 932-2912.

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♠ DARREN J. ROSARJO Fire Chief

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Duane Kanuha March 27, 2014 Page 8

(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 AHI; (d) not be located less than 24 inches, and no higher than 36 inches from

(e) be secure and capable of withstanding drafting operations. Engineered finish grade, as measured from the center of the FDC orifice; 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 stall 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 Five 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 HAWA!! 345 KEKUANAO'A STREET, SUITE 20 . HILD, HAWA!! 86720 TELEPHONE (808) 961-8050 . FAX 1808) 951-8657

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January B, 2014

Duane Kanulus, Director

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PLANEIDE DEFARTHENT COMMENT DE NA MAIN

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Planning Department

Quiring Antonio, Ir., Manager-Chief Engineer FROM

SUBDIVISION APPLICATION NO. 13-001308 APPLICANT – SHERYL B. SEAMAN TAX MAP KEY 4-4-011:083 SUBJECT

We have reviewed the proposed subdivision application and have the following comments.

Water availability in the subject area is limited to just one (1) unit of water per pre-existing lot of record. The parcel has an existing service lateral with a \$/8 inch meter (Account No. 680 20360), which is suitable for scrining one (1) unit of water to a single-family dwelling. A unit of water allows for an average usage of 400 sublings per day. Additional water is not available; and, therefore, DWS cannot support the preprinced subdivision.

Should the subdivision be approved by the Planning Department under a variance, DWS requests that the subdivision applicant assigns the existing meter to one (1) of the fourt (4) proposed subdivision hats and provides that information in writing to DWS. The 58-inch meter shall only serve one (1) of the lots resulting from the subdivision and the meter shall only serve one (1) dwelling unit on the Nt to be served.

Note that the parcel proposed for subdivision does not front upon a DWS waterline and is, therefore, considered out of bounds. As such, the location of the meter does not front the subject parcel and is, instead, located somewhere long DWS pipeline, Per departmental policy, an out of bounds agreement for the meter was signed by the above the borne with the Department in 2003. If the subdivision is allowed, the applicant should sign a new out of bounds agreement with the Department reflecting the new lot number of the subdivided parcel that will be assigned the meter.

Should there be any questions, please contact Mr. Larry Bock of our Water Resources and Planning Branch at 961-8070, extension 260.

Sincerely yours.

A Cuirino Antonio, Jr., P.E. Manager-Chief Engineer idamo

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