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March 4, 2015

Roy A. Vitousek III Cades Schutte, LLP 75-170 Hualālai Road, Suite B-303 Kailua-Kona, HI 96740

Dear Mr. Vitousek:

SUBJECT:

VARIANCE DECISION - VAR-14-000263

Agent:

ROY A. VITOUSEK III, CADES SCHUTTE LLP

Applicants: Owners:

EDWARD J. RAPOZA, et al. EDWARD J. RAPOZA, et al.

Request:

Variance from Chapter 23, Subdivisions, Article 6, Division 2, Improvements Required, Section 23-84, Water Supply; and Article 3, Division 4, Street Design, Section 23-41, Minimum Right-of way; And Article 6, Division 2, Improvements Required, Sections 23-87, -88, -89, -91, -93 & -95, Standard for Non-dedicable Street, Non-dedicable Street, Sidewalks, Curbs and

Gutters, Street Lights and Right-of way Improvement

Tax Map Kev:

7-9-002:023

(SUB-14-001375)

Upon review of your variance application, the Planning Director certifies the **approval** of Variance VAR-14-000263 subject to variance conditions. The variance grants relief for SUB-14-001375 from constructing minimum County dedicable water supply system and roadway improvements for the 4 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) and Article 3, Division 4, Street Design, Section 23-41, Minimum Right-of way; and Article 6, Division 2, Improvements Required, Sections 23-87, -88, -89, -91, -93 & -95, Standard for Non-dedicable Street, Non-dedicable Street, Sidewalks, Curbs and Gutters, Street Lights and Right-of way Improvement.

#### BACKGROUND

1. **Location.** The referenced property, being Lot B, also being a portion of Grant 1,170, containing apx.197.090 acres, is situated in Honua'ino 2<sup>nd</sup>, 3<sup>rd</sup> & 4<sup>th</sup> and Hōkūkano 1<sup>st</sup> & 2<sup>nd</sup>, N. Kona, Hawai'i.

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- County Zoning. Agricultural twenty acres (A-20a).
- 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.** Hawai'l County Code, Chapter 23, Subdivisions 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.

The code also requires minimum right-of-way and paving widths of 50 feet and 20 feet, respectively, and full right-of-way improvement to include paved shoulders and swales. The code does not require, instead allowing the Planning Director discretion for the installation of curbs, gutters and sidewalks and in this instance the Director concurs that they would be inappropriate for this large-lot agricultural subdivision.

- Subdivision Request/PPM. Subdivision application SUB-14-001375 was submitted to subdivide the subject TMK property into 4 lots ranging in size from 46.703 acres to 52.574 acres. Further action on the subdivision application has been deferred pursuant to letter dated July 22, 2014 in the subdivision file.
- 7. Variance Application. The variance request from water supply and roadway improvements was acknowledged by Planning Department letter dated December 22, 2014. This variance application includes background history and circumstances and information regarding the pending subdivision application. The department requested, and the applicant granted, a time extension for the Director's decision from February 10, 2015 to February 24, 2015.
- 8. Variance Application (VAR-14-000263) Agency Comments and Requirements.
  - a. State of Hawai'i-Department of Health (DOH): The DOH did not comment on this application as of this date. However, see attached memorandum dated December 29, 2014 which responded to an adjacent, recent variance request.
  - b. County of Hawai'i Fire Department (HFD): As of this date, HFD did not respond to this application. However, see attached memorandum which is their standard response to water variance requests.
  - c. Department of Water Supply (DWS): See attached memoranda dated January 15, 2015. We have also attached their comments in response to the subdivision application.
  - Department of Public Works (DPW): the DPW did not comment on this variance application as of this date.

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- 9. Notice to Surrounding Owners/Posted Sign. The applicant submitted evidence, dated January 7, 2015, regarding the posting of a public notification sign on the subject property pursuant to Section 23-17(c) of the Hawaii County Code (HCC). Pictures of the posted sign were also submitted. Evidence dated December 30, 2014 indicates that a notice of the application was sent to the surrounding property owners as required by Section 23-17(a).
- 10. **Comments from Surrounding Property Owners or Public.** There were no written comments 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 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-20a zoning. Although a dedicable water system is a requirement of the code, the subject property is not able to be supported by the present service facilities of the existing DWS system and it would be unreasonable to expect the owners to construct the required service upgrades. 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 to Planning Department Rule No. 22, Water Variance.

Therefore, for this large-lot agricultural subdivision, the best use and manner of the development allows for individual rain water catchment systems in keeping with the rural agricultural character of the surrounding area.

The Hōkūkano Ranch Road is already in use. There is no practical reason to improve the Hōkūkano Ranch Road or the jeep roads to County standards as they serve a limited number of agricultural properties and are not through streets. The cost of installing roadways, street lights, sidewalks, and curbs and gutters to County standards for the proposed lots created by subdivision would be prohibitively expensive for this four large-lot agricultural subdivision.

The existing Hōkūkano Ranch Road, with approximately 14 foot wide pavement and 20 foot wide gravel shoulders, traverses within 100' wide Easement 1-A-1, extending from the Mamalahoa Highway mauka for approximately 2 miles. The roadway continues mauka as an unpaved gravel road for approximately 825 feet within a 60' wide portion of Easement 1-A-1 to

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Easement "C." The existing unpaved gravel roadway continues over 60' wide Easement "C" within adjacent Lot A mauka to this proposed subdivision of Lot B, terminating at Easement A-1 within Lot B. This existing roadway has served the area for some time and is adequate for the purposes of agricultural type vehicular use.

The above special and unusual circumstances would deprive the applicant from developing this property and interferes with the best use of this property.

#### (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 within the service limits of their existing water system facilities. 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 and additions required to the existing DWS water system facilities. At an elevation of approximately 2,800 to 3,000 feet above sea level, the drilling of wells and construction of other water system improvements to DWS standards would also be unreasonable for a four (4) lot subdivision.

There is no practical reason to improve the Hōkūkano Ranch Road or the jeep roads to County standards as they serve a limited number of agricultural properties and are not through streets. This existing paved and graveled roadway within 100 and 60 foot wide easements has served the area for some time and is adequate for the purposes of agricultural type vehicular use.

(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 60 inches to 80 inches of rainfall annually) to support individual water catchment and this is an agricultural subdivision, the granting of this variance would be consistent with the general purpose of the agricultural district. Water catchment is consistent with the intent of the policies of the general plan in that it will further agricultural activity. 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 surface water runoff and may be a benefit to the surrounding area.

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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, Rule 22 and the Hawai'i County General Plan.

The roadway variance authorizing use of the existing, privately owned roads, with paved and graveled portions as outlined above, will not be detrimental to public welfare or burden County resources. The existing Hōkūkano Ranch Road is designed for and is currently used by owners, residents, and associated ranch and farm workers having direct use of the Property and surrounding agricultural lands. Using the existing roadways, as-is, will create less impact in this area than roadways and improvements designed to County standards. Hōkūkano Ranch uses similar low-volume ranch roads in this area, as do other ranchers, kama'āina, and residents who live in the area. There are livestock operations, farm dwellings, and other appropriate agricultural uses in the area. The Owners' plans are consistent with the existing land uses and will not have any adverse impact on the area's character or on neighboring properties.

The proposed lots, the smallest of which will be 46.703 acres, exceed the minimum lot size for the Ag-20 zoning by more than two times. The project is consistent with the intent and purpose of the Zoning and Subdivision Codes. The General Plan designation for the Property is "ial," important agricultural lands. The project is designed with large lots for continued agricultural use. The Owners' plans are consistent with this designation. The Property is currently in agriculture use and the area has historically been used for agricultural purposes.

#### **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 and utilizing the existing paved and graveled 100 and 60-foot wide easement ranch roads as they are 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.
- 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 4 lots created by the proposed subdivision which are not serviced by a County dedicable public water system and which are serviced by a privately owned alternative roadway. The agreement shall be

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duly recorded at the Bureau of Conveyances of the State of Hawai'i 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 Hawaii 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.
- 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 4 lots within proposed subdivision SUB-14-001375.

It is also understood that they will use and maintain the privately owned roadway on their own without any expectation of governmental assistance to maintain the improvements. They shall also indemnify and defend the State of Hawai'i or County of Hawai'i from any and all liability arising out of vehicular access to and from the subject properties utilizing the private right-of-ways.

- 6. The owners, grantees, successors, and assigns agree and accept the fact that the County will not bear the responsibility of supplying public water to the 4 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 will be allowed on any lot created, 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 6000-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 on a lot not served by the DWS shall also be provided with a **minimum**

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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, shall be as specified by the HFD in the memorandum attached to this permit for reference. 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 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.

Upon written demand of the County of Hawai'i, the applicant and/or owners, their assigns, or successors shall agree to participate and pay their fair share percentage of any improvement district adopted for the purpose of roadway improvements serving the proposed lots. Should the improvement district require acquisition of any privately owned right-of-ways fronting the lots, such right-of-ways shall be dedicated to the County without cost and the value of the dedication credited to the fair share contribution of the respective lot owner(s).

- 11. The pending subdivision application's (SUB-14-001375) 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 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

JRH:nci

\\COH33\planning\public\Admin Permits Division\Variance\2014\VAR-14-000263Rapoza Water-Road\APVL.docx

Encls: Agency Comments

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xc: DWS-Engineering Branch

DPW HFD

T. Dunlap, CDP Planner (via email)

SUB-14-001375

xc w/encls: Edward J. Rapoza

c/o Cades Schutte LLP

75-170 Hualālai Road, Suite B-303

Kailua-Kona, HI 96740

G. Bailado, GIS Section (via email)

096095

Duane Kanuha December 29, 2014

Protection Agency (EPA) defines human consumption to include drinking, bathing, showering, cooking, dishwashing, mammaning oral hygiene and includes hand washing.

DAVID Y IGE GOVERNOR OF NAMES



... > 25

KEITH YALKANOTO KING PROJOF GFRATA

STATE OF HAWAII
DEPARTMENT OF HEALTH
POLISON 81-8
HILD: HAWAII 9672 - 0816

#### MEMORANDUM

December 29, 3614 DATE

Planning Director, County of Hawan Deane Kanuha

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Newton Inouye &th

TROM

District Environmental Health Program Chief

Application: SUBJECT

VARIANCE VAR 14-000265 ROY A. VITOUSEK III, CADES SCHUTTE LI,P J.EHUTULA MACKA, LLC Agent

LEHU'ULA MAUKA, U.C. Varance from Chapter 23. Subdivisions, Article 6, Division 2, Applicant Owner. Request:

Right-of way, And Arricle 5, Division 2, Improvements Required, Sections 23-87, -88, -89, -95, 8-95, Standard for Non-Dedicable Street, Non-Dedicable Street, Sidewalks, Curbs and Article 3, Division 4, Street Design, Section 23-41, Minimum Improvements Required, Section 23-84, Water Supply: And

Gutters, Street Lights and Right-of way Improvement 7-9-002:015 (\$1:8-14-001367) Ä

twenty-five (23) individuals daity at least start (69) 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 warer quairly 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 of such system has fifteen (15) service connections or regularly serves an average of at least existing public water system.

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 catcherent systems for drinking water purposes since the quality may not meet National Primary Drinking Water Standards for polable drinking water for human consumption. The U.S. Environmental Concerns on water quality for lead, copper, algae and microbiological and chemical

WORD: VAR 14-000265 eh.

Ogane Kanuha August 29-2013 Page 3

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

Exception: Fire Department personnel conducting firefighting operations, hydrant testing, and or C+ 18.1.1.2.1 Fire Hydrani use and Restrictions. No unauthorized person shall use or operate mainlenance, and the flushing and acceptance of hydranis winessed by Fire Prevention Bureau representative of the department, or company test owns or governs that water supply or system. any Fire hydrant unless such person first secures permission or a permit from the owner or

## 18.2 Fire Department Access.

18.2.) Eve department access and five department access roads shall be provided and maintained in accordance with Section 18.2.

## 18.2.3" Access to Structures or Areas.

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

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

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

18.2.3 Fire Department Access Roads (\*nia) 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 across roads shall consist of madways, fire lanes, parking lots lanes, or a combination thereof.

<del>,</del> Pittern P. Nanol



Retradek J. Victoriao Jour fur Chy Durren J. Rosarto Fra (baj

#### County of Bawai'i

August 29, 2013

DUANE KANCHA, PLANNING DIRECTOR څ

DARREN I, ROSARIO, FIRE CHIEF FROM

St BJEC1:

REQUEST: VASIANCE FROM CHAPTER 23, SUBDIVISIONS, VARIANCE APPLICATION (VAR 15-00) APPLICANT DANIEL L. BERG, DEB & ASSOCIATES OW NERS:

ARTICLE 6. DAYSION 2. IMPROVEMENTS REQUIRED, SECTION 23. SA WATER SUPPLY

TAN MAP KEY

In regards to the above-mentioned Variance application, the Hawari Fre Department recommends that the following shall be in accordance:

NEPA I, UNIVORAL FIRE CODE, 2006 EDITION
NOVE NEPA! Hannil State Five Code with County amendments. are identified with a proceeding "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.

unduly difficult, or areas where there is an inadequate fire flow, or madequate fire hydrain spacing, and the AHJ may require additional safeguards including, but not limited to, For excupancies 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 adictional fire appliance units, more than one type of appliance, or special systems suitable for the protection of the hazard involved.

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



Mental county is a report Opportunity of with and fairfage

Duzne Kanuha August 29, 2013 Page 4 C-182.3.4.1.2 FDAR shall have an anobstructed vertical electrance of not less than 13th 6 in.

C- 18.2.3.4.1.2.1 Vertical ciserances may be mereased or reduced by the AHJ, provided such increase or reduction does not empair access by the fire approvals, and approved signs are installed and maintained indicating such approved changes.

18.1.3.4.1.1.2.1 Vertical clearances shall be increased when vertical clearances or widths are not adequate to accommodate fire apparatus.

C- 18.13.4.2 Serface. 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 furning radius of 60 feet.

18.2.3.4.3.7 Turns in fire department access road shall maintain the minutum road width.

18.13.44 Dead Ende. Dead-end fre department sociess roads in excess of 150 ft (46 m) in length shall be growided with approved provisions for the fre apparatus to turn around.

#### 18.2,3.4.5 Bridges.

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

18.1.3.4.5.2 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 lithius shall be posted at both entrances to bridges where required by the

#### 18.2.3.4.6 Grade.

C= 18.13.4.6.1 The maximum gratient of a Fire department access road shall not exceed 12 percent for unpaved surfaces and 15 percent for gaved surfaces. In areas of the FDAR where a Fire apparatus would connect to a Fire hydram or Fire Department Connection, the maximum gratient of such area(s) shall not exceed 10 percent.

Duane Kanuha August 29, 2013 Page 3 18.1.3.1.3\* When not more than two one, and two-family dwellings or private garages, carports, sheds, agricultural buildings, and detached buildings or structures 400ff (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

18.2.3.1.4 When fire department access made carnot be installed due to healton on property, topography, waterways, nomegotiable grades, or other similar conditions, the AH shall be authorized to require additional fire protection features.

## 18.2.3.2 Access to Building.

18.1.3.2.1.4 fine department access road shall extend to within in 50 ft (15 m) of at least one externor door that can be opered from the outside that provides access to the interior of the building. Exception: I and 2 single-family dwellings.

18.2.3.2.1.1 When buildings are protected throughout with an approved automatic spreakler system that is installed in accordance with NPPA 13. NPPA 13D, or NFPA 13R, the distance in 18.2.3.2.1 shall be permitted to be increased to 500 feet.

18.2.13.2 Fire department access roads shall be provided such that any portion of the facility or any portion of an exterior well of the first story of the building is located not more than 150 fl (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 13B, the distance in 88.2.3.2.2 shall be permitted to be increased to 450 ff (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, chinatic conditions, or other factors that could imit access.

### 18.2.3.4 Specifications.

#### 18.2.3.4.1 Dimensions.

C - 18.2.3.4.1.1 EDAR shall have an unobstructed width of not less than 20th with an approved turn around area if the FDAR exceeds 150 foot. 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.

Duane Kamba August 29, 2013 Page 6

18.2.4.2.3 Roads, traits, and other access ways that have been closed and obstructed in the manner prescribed by 18.2.4.2.1 shall not be trespassed upon or used unless sutborized by the owner and 36 AE

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

installed by the fire department or by its order or under its control shall not be removed, unlocked, 18.14.15 Locks, gates, downs, barricades, chains, enchosures, signs, tags, or seals that have been destroyed, tampered with, or otherwise vandalized in any manner.

## 18.3 Water Supplies and Fire Hydrauts

thereof, are bereafter constructed, or anyed into or within the county. When any portion of the access road, as measured by an approved route around the exterior of the facility or building, onfacility or building is in excess of 150 feet (45 720 mm) from a water supply on a fire apparatus 18.3.3.4 A water supply approved by the county, capable of supplying the required fire flow for site fire hydrants and mains capable of supplying the required fire flow shall be provided when The protection shall be provided to all premises upon which facilities or buildings, or portions required by the AEE. For on-site fire hydrant requirements see section 18.3.3.

#### EXCEPTIONS:

- approved automatic fire sprinkler system the provisions of section 18.3.1 may be modified When facilities or buildings, or portions thereof, are completely protected with an by the AHJ.
- conditions, the AHJ may require additional fire protection as specified in section 18.3.2 as When water supply requirements cannot be installed due to topography or other 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 AEU.
- 18.3.2\* Where no adoquate or reliable water distribution system exists, approved reservoirs, pressure tanks, elevated tanks, fire department tanker shuttes, or other approved systems capable of providing the required fire flow shall be permitted.
- delivering the required fire flow shall be provided on a fire apparatus access road on the site of the 18.3.3\* The location, number and type of fire hydrants connected to a water supply capable of 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.

Duane Kanuha August 29, 2013 Page 5

18.2.3.4.6.2. The angle of approach and departure for any means of fire department access mad shall not exceed 1 8 drop in 20 ft (0.3 in drop in 6 in) or the decayn limitations of the fire apparatus of the five department, and shall be subject to approval by the AHJ

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

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

# 18,2.3.5 Marking of Fire Apparatus Access Road.

provided and maintained to identify free department access roads or to prohibit the obstruction 18.2.3.5.1 Where required by the AHI, approved signs or other approved notices shall be 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 Coutrol of Fire Department Access Road.

#### 18.2.4.1 General.

18.2.4.1.5 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 Mournum required widths and clearances established under 18.2.3.4 shall be manniamed

18.2.4.1.3\* Facilities and structures shall be maintained in a manner that dues not unpain or impede accessibility for fire department operations. 18.2.4.1.4 Entrances to tire 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 Cloumt of Accessways.

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

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

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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.

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 draffing operations. Engineered

(f) not be located more than 150 feet of the most remote part, but not less (g) also comply with section 13.1.3 and 18.2.3.4.6.1 of this code; than 20 feet, of the structure being protected; stamped plans may be required;

(4) Commercial buildings requiring a fire flow of 2000gmm shall be provided with a second FDC. Each FDC shall be independent of each other, with each FDC bring. capable of flowing 500gpm by engineered design standards. The second FDC shall be located in an area approved by the AHJ with the sdea 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 lesses of the property shall be responsible for maintaining the water level, quality, and apportenances 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.

detached garages 800 to 2000 square feet in size, and meets the minimum Fire (3) For one and two family dwellings, agricultural buildings, storage sheds, and 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

Duane Kamuha August 29, 2013

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 AHI shall be notified whenever any fire hydrant is placed out of service or returned to service. Owners of private property required to have hydranic 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 AHI upon request.

C~ 18.3.8 Minmum water supply for buildings that do not meet the minimum County water standards: Buikkings up to 2000 square fect, shall have a minimum of 3,000 gallons of water available for Firefighting. Buildings 2001 - 3000 square feet, shall have a minimum of 6,600 gallons of water available for

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 anwent of stories when determining

Commercial buildings requiring a minimum fac flow of 2000gpm per the Department of Water standards shall double the minimum water supply reserved for firefighting. Fire Department Connections (FDC) to atternative water supplies shall comply with 18.3.8 (1)-(6)

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

(1) In that a single water tank is used for both domestic and freelighting water, the water for

domestic use shall not be capable of being drawn from the water reserved for firefighting.



# DEPARTMENT OF WATER SUPPLY - COUNTY OF HAWAPP 245 KEKBANADA STHEET SULE 23 - PILO HAWATT 95/20 TKY CPHOME HOR 961-8050 - BAY 1808-367 8657

January 15, 2015

Mr. Dunne Kateska, Dregger Aylen flon: MR. Jonathan Holmes

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Planning Department

Ouizing Amonto, Jr., Manager-Chief Engineer SROW

SUBJECT:

VARIANCE APPLICATION - (VAR 14-00263) APPLICANT - FDWARD J. RAPOZA EAN MAP KEV 7-9-002:023 (SUB 14-001375)

We have reviewed the variance application and have the following commons. Our comments inver our memorasticum to you of July 14, 2014, regarding the subject subdivision still stand.

the adequacy of these systems as they do not meet the requirements of the Department's Water System Standards. We have no objection to the use of rainwater caterinism system; however, we enough approve or comment as to

We recommend that the owners) consult with the County of Hawairi, Planning Department the County of Hawairi, Department of Public Works, and/or the State of Hawairi. Department of Health, we determine any other guide ness recommendations, or regulations regarding the use of rahusquer carehoven systems

Mould there be any questions, please contact Mr. Teo, Samura of our Water Resources and Planting Branch or 961-8678, extension 255



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Duane Kanuha August 29, 2013 Page 9

ministrum 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 sprinklyr system, the ministrum water greater than 2000square feet, but loss than 3000 square feet and meets the

supply required may be modified.

if there are any questions regarding these requirements, please contact the Fire Prevention Bureau at  $(808)\,992.29\,H_\odot$ 

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DARREN J. ROSARIO Fire Chef

RP7c

096393

The Department of Wales Nogy is an Equip Opportunity process and employee



# DEPARTMENT OF WATER SUPPLY . COUNTY OF HAWAIN 345 KENJANAGA STREET SAITE 21 - HLD GAKANI BITZZ TELFPROVE (322-35) KR34 - TAK 373-35-3557

July 14, 2014

Mr. Duane Kanuha, Drewtor Planning Department Ė

Quinno Aktonio, Jr., Manager - Chief Frigineer FROM

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2014 July 14 July 2: 08

SUBJECT: PRELLMINARY PLAT MAP AND DEFER ACTION APPLICANT - RAPOZA, EDWARD LJTODD T. SHIRAKI TAX MAP KEY: 7/9-402403/(SUB-14-001373)

We have reviewed the subject applicative and have the following comments and conditions

Please be informed that the subject property is not within the service limits of the Department's existing water system facilities. The property is also at an elecation where water cannot be delivered at adequate column and pressure under peak-flow and fire-flow conditions, from the Department's existing water 15 stem facilities. Therefore, the Department's existing water system facilities cannot support the proposed suidivision as into line. Extensive unprovements and additions, which may arehade, but not be limited to, source, storage, beoster pumps, transmission, and distribution facilities, would be requared.

Should there by any quantions, please contact Mr. Trop Sateura of our Water Resources and Planning. Branch at 961-8070, extension 255.

Smeerely yours,

Quittin Actonic, Jr., P.F. Manager - Chief Engineer

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