William P. Kenoi Mayor



Duane Kanuha Director

Bobby Command Deputy Director

Last Hawar't Office 101 Pauahi Street, Suite 3 Hilo, Hawai'i 96720 Phone (808) 961-8288 Fax (808) 961-8742

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County of Hawai'i planning department

April 9, 2015

John D. Weeks, II John D. Weeks, Inc. 78-6877 Māmalahoa Highway Hōlualoa, HI 96725

Dear Mr. Weeks:

SUBJECT:	Application:	VARIANCE DECISION - VAR-15-000272
	Agent:	JOHN D. WEEKS II, JOHN D. WEEKS, INC.
	Applicants:	THOMAS C. ROSENBAUM
	Owners:	THOMAS C. ROSENBAUM
	Request:	Variance from Chapter 23, Subdivisions, Article 6, Division 2, Improvements Required, Section 23-84, Water Supply
	<u>Tax Map Key:</u>	9-4-003:013 (SUB-14-001433)

Upon review of your variance application, the Planning Director certifies the **approval** of Variance VAR-15-000272 subject to variance conditions. The variance grants relief for SUB-14-001433 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, being a portion of Grant 808, containing approximately 44.322 acres, is situated at Kilolakaa, Ka'ū, Hawai'i.
- 2. **County Zoning.** Agricultural twenty (20) acres (A-20a)
- 3. State Land Use. Agricultural (A).
- 4. General Plan. Extensive Agricultural (ea).

John D. Weeks, II John D. Weeks, Inc. Page 2 April 9, 2015

- 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-14-001433 was submitted to subdivide the subject TMK property into 2 lots. Further action on the subdivision application has been deferred pursuant to letter dated December 19, 2014 in the subdivision file.
- 7. Variance Application. The variance request from water supply improvements was acknowledged by Planning Department letter dated February 18, 2015. This variance application includes background history and circumstances and information regarding the pending subdivision application.
- 8. Variance Application (VAR-14-000272) Agency Comments and Requirements.
  - a. The State of Hawai'i-Department of Health (DOH): See attached memorandum dated February 20, 2015.
  - b. The County of Hawai'i Fire Department (HFD): See attached memorandum dated March 11, 2015.
  - c. The Department of Water Supply (DWS): See attached memorandum dated March 4, 2015.
  - d. No other agency comments were solicited and none were received.
- 9. Notice to Surrounding Owners/Posted Sign. The applicant submitted evidence, dated March 24, 2015, regarding the posting of a public notification sign on the subject property pursuant to Section 23-17(c) of the Hawai'i County Code (HCC). Pictures of the posted sign were also submitted. Evidence dated March 24, 2015 indicate 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 comments received from the surrounding property owners or the public on this application.

### ANALYSIS OF GROUNDS FOR VARIANCE

No variance will be granted unless it is found that:

(a) There are special or unusual circumstances applying to the subject real property which exist either to a degree which deprives the owner or applicant of substantial property rights that would otherwise be available or to a degree which obviously interferes with the best use or manner of development of that property. John D. Weeks, II John D. Weeks, Inc. Page 3 April 9, 2015

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

The subdivision request is for two (2) lots in keeping with the existing A-20a zoning. Although a dedicable water system is a requirement of the code, and although there is one meter serving the property, the subject property is not able to be further 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 2-lot subdivision, a more reasonable alternative can be allowed pursuant to Planning Department Rule No. 22, Water Variance.

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

Therefore, for this 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.

### (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 its 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 2 lots of the pending 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 1,300 to 1,800 feet above sea level, the drilling of wells and construction of other water system improvements to DWS standards would also be unreasonable for a two (2) lot subdivision and there is no guarantee that the source would be adequate.

### (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

John D. Weeks, II John D. Weeks, Inc. Page 4 April 9, 2015

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 runoff and may be a benefit to the surrounding area.

Given that the subject area receives sufficient annual rainfall, a water variance would be consistent with the general purpose of the zoning district and the intents and purposes of the Zoning Code, Subdivision Code, Rule 22 and the Hawai'i County General Plan.

### DETERMINATION-VARIANCE CONDITIONS

The variance requested is to permit the proposed 2-lot subdivision of the subject TMK property without providing a dedicable water system meeting DWS standards is hereby **approved** subject to the following variance conditions:

- 1. The applicant, owners, their assigns, or successors shall be responsible for complying with all stated conditions of approval.
- 2. Should the Council adopt a Unified Impact Fees Ordinance setting forth criteria for the imposition of exactions or the assessment of impact fees, conditions included herein shall be credited towards the requirements of the Unified Impact Fees Ordinance.
- 3. The owners, their assigns, or successors shall file a written agreement document with the Planning Department within one (1) year from the issuance of tentative subdivision approval. This written agreement shall contain deed language, being covenants, conditions, and restrictions affecting the 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 owners at their cost and expense. A copy of the recorded document shall be forwarded to the Planning Department for its files.

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

4. The subdivider and all grantees, successors, and assigns acknowledge that the parcels were created by a variance from the normal subdivision requirements of Hawai'i County, and that there are no special or unusual circumstances applying to the property which deprive the owners of substantial John D. Weeks, II John D. Weeks, Inc. Page 5 April 9, 2015

> property rights or to a degree which obviously interferes with the best use or manner of development of the properties, and hence, no grounds exist or will exist for a variance from the Subdivision Code to permit further subdivision of the properties, and that changes in the owners' personal or financial situation after acquiring the properties also will not constitute grounds for a 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 the lots within proposed subdivision SUB-14-001433.
- 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 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 lots created.
- 8. Any dwelling constructed on the created lots not served by 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 not served by DWS shall be provided with an additional minimum 3,000 gallon water storage capacity for fire fighting and emergency purposes. The location and capacity of the emergency water supply system, including the necessary compatible connector system, shall be as specified by 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.
- 10. In the event that the County notifies the owner(s) of the lots created that the County water system has been upgraded or an improvement district initiated to enable service to these lots, the owner(s) of lots shall participate in such improvement district or shall pay their pro-rata share of the upgrade and installation of laterals, as determined by the DWS.
- 11. The pending subdivision application's final plat map shall meet all the requirements of the Hawai'i County Zoning Code and Subdivision Code not covered by this variance. No other variances from Chapter 23, Subdivisions, shall be granted to permit subdivision application SUB-14-001433.
- 12. The subdivider, owner(s), their assigns or successors shall pay any outstanding real property taxes

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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 this Variance Permit null and void.

Sincerely,

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DUANE KANUHA Planning Director

JRH:nci \\COH33\planning\public\Admin Permits Division\Variance\2015\VAR-15-000272 Rosenbaum Water\APVL.doCx

Enclosures: Agency Comments

xc: DPW-Engineering DWS-Engineering SUB-14-001433

xc w/encls: Ron Whitmore, KCDP Planner (via e-mail)

G. Bailado, GIS Section (via e-mail)

Thomas C. Rosenbaum P.O. Box 571 Captain Cook, HI 96704

County of Janual'1 HAWAI'I FIRB DEPARTMENT SAMMAN FIRB DEPARTMENT SAMMAN STORE - 1600 2019 - 160 (1913, 1955 March II. 2015 TO: DU ANE KANUHA, PLANNING DIRECTOR FROM: DAZAEN J. ROSARIO. FIRE CHUEF SEBECT: VARIANCE - VARUSCE				
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		FKOM: Newton Invuye AP District Environmer	Newton Incuye AF District Environmental Health Program Chief	
APPLICANTOWARR: HOWASC ROSENBACH REQUENT-VARIANCE-PROM CHAPTER 23, SUBDIVISIONS, ARTICLE 6, DIVISION 2, IMPROVEMENTS REQUIRED, SECTION 22-84, WATER SUPPLY TAX MAP KEY: 94-0030134(S138-144001433)	NS. ARTICLE 6. H. WATER SUPPLY	a v	VARIANCE-VAR-15-00072 JOHN D. WEEKS II. JOHN D. WEEKS, INC. THOMAS C. ROSENIACM THOMAS C. ROSENBAUM	
la regards to the above-mentioned Variance application, homes shall comply with aitemative water septhy code requirements. In addition, the following shall be in accordance.	y with alternative water	Request: Las Map Kest.	Request: Variance from Chapter 23, Sobolivisiens, Arriche f. Division 2. Inprovements Required. Section 23-84, Water Supply Lat Map <u>Kere</u> , 9-4003/033, 1, 15UB-14-0014333	distion 2.
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Chapter 18 Fire Department Access and Water Supply		which provides water for homa such system has fifteen ( 51 ser	which provides water for human concernments of second and a provide water system means a system such system and frequential convergion structured piper or other constructed convergators if such system as if frequent (5), for the non-neutrino concernments or constructions are an another and second	system system
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For excupancies of an especially hazanlyus pature, or where special huzards exits in addition to the normal hazard of the occupancy; or where access for fire apparatus is unduly difficult, or areas where	visi in addition to the difficult, or areas where	Administrative Rules, Tate 11, erdstating public water system.	Admanistrative Rules. Tails 11. Chapter 30. Recommend the subdivision Job be contected to an evidence of the an	ected to an
cace is an meedoquate into item, or meedoquate iter hydram spexing, and the AHG may require additional seleguards including, but not himited so, addutional fire appliance units, more than care type of appliance, no special systems suitable for the protection of the barand involved.	Hý may require níts, more (han cné invulved	Concerns on water quality for lu- contartinations in private water Decomment of Health from see	Conterns on water quality for lead, copper, algue and memological and chemical contarnizations in private water systems have identified the need for velf monitoring. The Decontinuous of Licards from concensions in the identified of the need for velf monitoring.	
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18.1.1.1 Fire Appurture Access. Plans for fire apparatus access mads shall be submitted to the fire department for review and approval prior to construction.	e submitted to	Protection Agency (EPA) definitions evoking, distwashing, maintain	exercises or powers universe water or nonitation constructions. The Loss Environmental Protection Agency (FEA) defines human consumption to include dricking, babiling, showering, cooking, distwashing, maintaining wat hygione and includes hand watering.	al Iowering.
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. or greature in the second structure of the second specifications for fire hydraut systems shall be submitted at the fire Hydraut Systems and approval prior to construction. installed in an accessible location where access to or within a suncture or area is difficult because of require fire department access be provided to gated subdivisions or covelopments through the use of 18.2.3.1.2 Fire Department access roads shall consist of readways, for hands, parking lots lanes, or a Fire hydrant unless such person first secures permission or a permit from the numer or representative 13.1.3.1 When not more than two one- and two-family direltings or private garaget, carports, sheds, agricultural hvildings, and detached buildings or structures 400M<sup>2</sup> (37 m<sup>3</sup>) or less are present. mutation - 1.5 JLLL2.1 Fire Hydraut are and Reprictions. No unauthorized person shall use or operate any Department personnel conducting firetighting operations, hidrant testing, and/of maintenance, and 18.2.1 Fire department access and fire department access roads shall be provided and maintained in 18.2.3.1.1 Approved fire department access roads shall be provided for every facility, building, or - of the department, or company that owns or governs that water supply or system. Exception: f ite 18.2.2.2 Access to Cated Subdivisions or Developments. The AHJ shall have the authority to 18.2.2.3 Access Maintemance. The owner or occupted of a structure or area, with required fire department access as specified in 18.2.2.2 for 18.2.2.2, shall notify the AHJ when the access is the requirements of 18 2.3.1 through 18.2.3.2.1 shall be permitted to be modified by the Aftl. 18.2.2.1 Access Box(cs). The AUI shall have the authority to require an access box(cs) to be the flushing and acceptance of hydrants witnessed by Fire Prevention Bureau personnel (6.2.3 Fire Department Access Roads (\*may be referred as FDAR) modified in a manner that could prevent fire department access. portion of a building hereafter constructed or relocated. 18.22\* Access to Structures or Areas. 18.2 Fire Department Access. an approved device or system. accordance with Section 18.2. 18.2.3.1 Required Access. × combination thereof Secrets Secrets Participation Longary Secrets Datate Kanuba Secrets Marth 11, 2015 Secrets Se security

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18.2.3.1.4 When fire supartment access reacts cannot be installed due to location on property. (coography, waterways, nonnegotieble grades, or other similar conditions, the AHJ shall be autorized to require additional fate protection features.

## 18.2.3.2 Access to Building.

**18.1.3.1**] A fire department access road shall extend to within in 5<sup>th</sup> ft (15 m) of at least one exterior down that can be opened from the outside that provides access to the interior of the building. Exception: 1 and 2 single-family dwellings.

18.2.3.1.1. When buildings are protected throughout with an approved automatic sprinkler system that is installed in accordance with hFPA 13. NFPA 1390, or NFPA 138, the distance in 18.2.3.2.4 shall be permitted to be increased to 300 feet. 18.1.3.1.2 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 rate mere than 150 ft (46 m) from fire department access reads is measured by an approved route around the exterior of the building or facility.

18.2.3.2.1.1 When buildings are protected throughout with an approved automatic sprinkler system that is installed in accordance with MFPA 15, NFPA 15D, or NFPA 13R, the distance in 18.2.3.2.2 shall be permitted to be increased to 450 ft+157 m.). 18.2.3.3 Wuthiple Access Roads. More than one, fire department access road shall be provided when it is determined by the AHJ that access by a single mad could be impared by vehicle emgestion, condition of semain, elimatic conditions, or other factors that could himit access.

## 28.2.3.4 Specifications.

## 18.2.3.4.1 Dimensions.

C-18.2.3.4.1.1 FDAR shall have an unobstructed width of not less than 24f. w.th an approved turn around area if the FDAR exceeds 150 fect. Exceptions: FDAR for one and two family divellings shall have an unobstructed width of not less than 15 fect. with an area of not less than 20 fect wide within 150 fect wide extendure being protected. An approved turn around area shall be provided if the FDAR exceeds 20 fect.

C~ 18.2.3.4.1.2 FDAR shall have an unobstructed vertical elemence of not less then 138.6 in.

C- 18.2.3.4.1.2.1 Vertical clearances may be increased or reduced by the AHL provided such increase or reduction does not impur access by the fire apparatus, and approved signs are installed and manufaired inducating such approved changes.

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18.2.3.4.6.3 Fire department access reads connecting to roadways shall be provided with curb cuts cutending at least 2  $\Re$  (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 AUU

# 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 Rond.

### 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 riserances 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.

18.2.4.2.4 The AfU shall be authorized to require the installation and maintenance of gates or other approved barricades across toads, trails, or other accessways not including public stretts, alleys, or highways.

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

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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-18.2.3.4.3 Surface. Fire department access trads and bridges shall be designed and maintained to support the imposed loads (25 Turts) 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 raside turning nation of 30 feet, and a manimum outside turning radius of 60 feet.

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

18.1.3.4.4 Bead Zada. Dcad-end fite department access roads in tracess of 150 ft (46 m) in length shall be previded with approved provisions for the fire apparatus to turn around.

### 18.2.3.4.5 Bridges

18.1.3.4.5.1 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.

18.1.3.4.8.2. The bridge shall be designed for a tive 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 AH.

### 13.2.3.4.6 Grade

C-18.13.4.6.1 The maximum gradient of a Fire department access road shall not exceed 12 percent for unpaced surfaces and 15 percent for pavel surfaces. In areas of the FDAR where a Vire apperatus would connect to a Fire Hydran of Fire Department Connection, the maximum gradient of such areas) alial hor texteed 10 percent. 18.1.3.4.6.2\* The angle of appreach and departure for any, recars of fire department access read shall not excess 1.6 due in 20 ft (0.5 in drop in 6 mt) or the design firmitations of the fire apparatus of the fire department, and shall be subject to approval by the AHJ.

Duane Kanuha March H. 2015 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 AHJ, fire bydramts subject to vehicular damage shall be protected unless located within a public right of way.

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

C  $\sim$  18.3.8 Minimum water supply for buildings that do not recet the minimum County water standards:

Huitdings up to 2000 square feet, shall have a minimum of 3,000 galtens of water available for Firefighting. Buildings 2001- 3000 square feet, shall have a minimum of 6,0M0 gallons of water available ion Firefighting. Buildings, 1001- 6000 square feet, shall have a minimum of 12.000 gallons of water available for Firefighting.

Buildings, greater than 6000 square feet shall excet the minimum Ciump, 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 fiew of 2000gpm per the Department of Water stardards shall double the minimum water supply reserved for firefighting. Fire Department Connections (FDK) to alternative water supplies shall comply with 18.3.8 (1):(6):05 this code

NOTE: In that water catchasest systems are being used as a means of water supply for firefinding: and waterns shall meet the fullowing requirements.

Grefghring, each systema 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.

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18.1.4.2.3 Roads, rails, and other accessways that have been closed and obstructed in the manner prescribed by 18.2.4.2.3 shall not be trespassed apont or used unless authorized by the owner and the AH.

18.2.4.2.4 Public officers acting within their scope of dary shall be permitted to access restricted property identified in 18.2.4.2.1. 18.2.4.2.5 Locks, gates, doors, barricades, cheins, cnclosures, signs, tags, or scals 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 Sapplies and Fire Hydraots

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, to prothoms thereof, are hereafter constructed, or moved into or which the county. When any portion of the facility or building is in excess of 150 feet (45 T20 mm) from a water supply on a fire approved rout around the externo of the facility or measured by an approved rout around the externo of the facility or masses by an approved rout around the exterior of the facility or building, or m-site fire thydrants and mass catable of supplying the equirements 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 18.31 may be modified by the AHJ.

- automatic fire sprinkter system the provisions of section 18.11 may be modified by the AH1. 2. When water supply requirements cannot be insulted due to topography or other conditions. the AH2 may require additional fire protection as specified in section 18.3.2 as amended in the code.
  - When there are not more than two dweldings, or two private garage: carports, sheds and agricultural. Occupancies, the requirements of section 18.3.1 may be motified by AHL.

18.3.2\* Where no adequate or reliable water distribution system exists, approved reservoirs, pressure tanks, cievated 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 delivening the required fire flow shall be provided on a fire apparetus access road on the site of the premises or both, in accordance with the appropriate county water requirements.

I.B.3.4 Fire Hydrants and connections to other approved water supplies shall be accessible to the fire department.

If there are any questions regarding these requirements, please contact the Fire Prevention Bureau at (8081323-4760). greater than 28008quare feet, but less than 3000 square feet and meets the minimum Fire Department Access Road requirements, the distance to the Fire Department Contraction may be increased to 500 feet. supply required may be modified. d'a - DARREN J. ROSARJO Duane Kanuha March 11, 2015 Fire Chief Page 9 KT1c .

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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<sup>-</sup> for galvanized steel.
- (3) The Fire Department Connection (FDC) shall:
- (b) have a gated valve with 2-1/2 inch. National Standard Thread male (a) be made of galvanized steel;
  - (c) he located between 8 ft and 16 ft from the Fire department access. fitting and cap;
    - 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 bring protected;
  (g) also comply with serior 13.1.3 and 18.2.3.4.6.1 of this code,
  (a) 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 targinetered 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 ewner or lessee of the property shall be responsible for maintaining the water level, quality, and appunchances of the system.

# EXCEPTIONS TO SECTION 18.3.8:

- (1) Agricultural buildings, storage sheds, and shade houses with no combustible
  - (2) Buildings less than \$00 square feet in size that meets the minimum Fire or equipment storage.
- (5) For one and two family dwellings, agricultural buildings, storage sheds, and Department Access Road requirements.
- detached garages 800 to 2000 squar feet in size, and meets the minimum Fire Department Access Road requirements, the distance to the Fire Department Connection may be increased to 1000 lice.
  - (4) For one and two family dwellings, agricultural buildings, and storage sheds

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DEPARTMENT OF WATER SUPPLY · COUNTY OF HAWAI'I BEFARTMENT OF WATER SUPPLY · COUNTY OF HAWAI'I BESTER :ECCFFORE :6061 901-8050 · FAX :6061 961 965 March4, 2015	IC). Mr. Dhane Kanuba, Birestor ATTEN PON- MR. JONATHAN HOLMES Planting Department	FROM: Quirino Antonus, Js., Manager-Chief Engineer	SUBECT: VARIANCE APPLICATION (VAR 15-00123) SUBDIVISION APPLICATION (SIB-14-00133) APPLICAYT - ROSENBALM, THOMAS C. TAX MAP KEY 9-4-003-013	We have reviewed the subject application and have the following commerts. Our comments from our memorandum to you dated December 4, 2014, regarding the subject subdivicious still stand.	We have no objection to the use of trainvator catchment system: however, we cannol approve or comment as to the adequacy of blows systems as they do not meet the requirements of the Ukpatrizent's Water System Vandards.	We recommend that the ownersty consult with the County of Hawar't, Planning Department, the County of Hawair't, Department of Public Works, and/or the State of Hawar't. Department of Health, to determine any other guidelines. recommendations, or regulations regarding the use of rainwater eatchment systems.	Should there be any questions: please contact Mr. Troy Samura of our Water Resources and Planning Branch at 96: -8070, extension 255	Sincere's yours.	Ledenner	Courano Antonio J., P. E. Maraget: Chief Engineer	Tsudg	.cepi - Kohn U. Weeks. Inc	