## STATE OF HAWAII DEPARTMENT OF HAWAIIAN HOME LANDS

#### Land Development Division

## DEC 09 2019

Date

## ADDENDUM NO. 2 TO INVITATION FOR BIDS IFB-20-HHL-012

## VARIOUS LOT IMPROVEMENTS IN WAIEHU KOU AND PAUKUKALO SUBDIVISIONS

#### Notice to All Prospective Offerors

This addendum is hereby made a part of the contract documents for Various Lot Improvements in Waiehu Kou and Paukukalo Subdivisions, IFB-20-HHL-012, and it shall amend the said contract documents as detailed within this Addendum document.

APPROVED:

\_\_\_\_\_

Stewart Matsunaga, Acting Administrator Land Development Division Department of Hawaiian Home Lands

Please execute and immediately return the receipt below to the Department of Hawaiian Home Lands via facsimile to: (808) 620-9299, Mr. Robert Ing, Land Agent, Land Development Division, or scan and E-mail to: <u>Robert.m.ing@hawaii.gov</u>.

Receipt of Addendum No. \_\_\_\_ for Various Lot Improvements in Waiehu Kou and Paukukalo Subdivisions, Invitation for Bids No.: IFB-20-HHL-012, is hereby acknowledged.

Signature: Print Name:

Title

Name of Firm/Company

Date

## ADDENDUM NO. 2

## IFB-20-HHL-012 Various Lot Improvements in Waiehu Kou and Paukukalo Subdivisions

## **INCLUSIONS**

This Addendum No. 2 shall incorporate the following amendments to IFB-18-HHL-012:

- Pre-Bid Conference Agenda with Minutes (including Questions and Answers).
   \*Notes-
  - Deadlines for Notice of Intent to Bid, Standard Qualification Questionnaire and Due Date and Time for bids on page 4 were amended by Addendum No. 1.
  - ii) Answers to questions are included on page 3;
- 2. Pre-Bid Conference Attendance Sheet;
- 3. Site Visit Photos;
- 4. Bid Offer Form {Revised}
- Construction Plans {Revised}
   (These revised Construction Plans replaces in its entirety the original plans published on the State's HANDS website for IFB-20-HHL-012, on November 19, 2019; And,
- 6. Specifications {Revised}
  (This revised Bid Offer Form replaces the original Bid Offer Form in IFB-20-HHL-012 published on the State's HANDS website, on November 19, 2019).

## Pre-bid Conference & Site Inspection Various Lot Improvements for Waiehu Kou and Paukukalo Subdivisions (IFB-20-HHL-012) 9:45 a.m., Tuesday, December 3, 2019 Waiohuli Community Center

881 Lauie Drive, Kula, Maui 96790

## **MEETING AGENDA with MINUTES**

## 1. INTRODUCTIONS

Department of Hawaiian Home Lands (DHHL)

- Stewart Matsunaga, Project Manager
- Robert Ing, Land Agent
- Bryan Toda, LDD Engineer
- Nikki Luong, P.E., Austin Tsutsumi & Associates, Inc. (ATA)
- Grace Juhre, ATA
- Brooks Aoki, Deputy Manager/CM, SSFM International, Inc. (SSFM)
- Cory Uchima, Construction Manager (SSFM)
- (See attached sign-in sheet)

## 2. PURPOSE OF PRE-BID CONFERENCE

- Project overview and job site visit
- Review procurement requirements
- Clarify bid documents.
- Submittal Schedule (Below). (Also, Pages 1-3, 'Instructions for Bid Submittal').

## **3. SCOPE OF WORK (General Description)**

- a. Lot 58, Waiehu Kou IV Subdivision (Limu Ele'ele Place)
  - Clearing, grubbing, handling, and removal of vegetation
  - Installation, maintenance, monitoring, and removal of BMP
  - Excavation, embankment and permanent erosion control
- b. Waiehu Kou Subdivision Frontage Walls (Kahekili Highway)
  - Clearing, grubbing, handling & removal of vegetation
  - Installation, maintenance, monitoring, and removal of BMP
  - Construction of a 2' High Concrete Rock Masonry Wall
- c. Lot 4 Paukukalo (Kuhio Place)
  - Clearing, grubbing, handling & removal of vegetation
  - Installation, maintenance, monitoring, and removal of BMP
  - Permanent erosion control
  - Excavation and embankment for AC driveway.
  - Construction of Concrete Masonry Unit retaining wall

Various Lot Improvements for Waiehu Kou and Paukukalo Subdivisions IFB No. IFB-20-HHL-012 December 3, 2019

## General

- All work must be performed in accordance with the Technical Specifications and Plans included in this IFB.
- All work and responsibilities listed in the Plan's 'General Construction Notes' are incidental to the bid proposal and are made part of this contract.

## 4. **PROCUREMENT REMINDERS**

- This project is not exempt from the General Excise Tax (GET). A line item for the GET is included in Bid Proposal Form, and should be added to the subtotal of bid items, and not the individual prices for each bid item;
- The Apprenticeship Agreement Preference for public works projects shall not apply to this IFB, in accordance with HRS §103-55.6, concerning projects with an estimated value of less than \$250,000 or more. It is anticipated that the project will be more than \$250,000, therefore the Apprenticeship Agreement Preference shall apply to this project.
- This project is subject to Chapter 104 HRS, Department of Labor and Industrial Relations (DLIR) prevailing wages and salaries;
- After bid opening and prior to award of the contract, DHHL shall verify compliance with Sections 103D-310 and 103D-328 HRS via Hawaii Compliance Express (HCE) for the bidder and all subcontractors. Therefore, the bidder and all subcontractors should register with HCE. Instructions for registration are at the HCE website: <a href="http://wendors.ehawaii.gov">http://wendors.ehawaii.gov</a>;
- Failure by the bidder and/or any subcontractor to rectify a non-compliant status within ten business days of notification will be considered as sufficient for the disqualification of the bidder and rejection of its proposal;
- In accordance with the provisions of Chapter 104-25, Hawaii Revised Statutes, there are contractors who have been suspended from doing any work on State or County public work construction project. An updated list can be found at this web link: <a href="http://labor.hawaii.gov/wsd/prevailing-wages-on-public-works/contractors-suspended-under-chapter-104-hawaii-revised-statutues/">http://labor.hawaii.gov/wsd/prevailing-wages-on-public-works/contractors-suspended-under-chapter-104-hawaii-revised-statutues/</a>

## 5. COMPLETION SCHEDULE AND LIQUIDATED DAMAGES

- Time to complete: Nine (9) months (270 calendar days)
- Liquidated damages: \$500 per calendar day.

## 6. QUESTIONS/ANSWERS ISSUED BY LAST ADDENDA

- A written summary of this pre-bid conference will be issued as an Addendum.
- Requests for clarifications and any questions after this meeting shall be made in writing and faxed to 808-620-9299, no later than 4:30 p.m., December 4, 2019.

Various Lot Improvements for Waiehu Kou and Paukukalo Subdivisions IFB No. IFB-20-HHL-012 December 3, 2019

• Written answers to questions will be provided to all potential bidders via addenda on the State's HANDS (Hawaii Awards Notice Data System) website; any verbal responses to questions by DHHL and its Consultant shall not be binding.

Link- https://hands.ehawaii.gov/hands/opportunities/opportunity-details/15317

- Interested bidders are responsible to check the HANDS website for the issuance of any addenda up until the due date for bids.
- 7. **DEADLINES** (See table below)

## 8. **QUESTIONS AND ANSWERS**

- a. Is archaeological monitoring required?
  - Answer: Archaeological monitoring for Lot 4, Paukukalo Subdivision portion of the project. An allowance item will be included in the Revised Bid Offer Form as part of Addendum No. 2.
- b. Who is responsible for soil testing? Answer: Geotech will be the Contractor's responsibility.
- c. Who is responsible for surveying? Answer: Contractor is responsible for surveying.
- d. Does the surveyor need to be licensed in Hawaii? Answer: YES. Surveyor needs to be licensed in Hawaii.
- e. Is there a project cost estimate? Answer: The estimated range for the project cost is between \$500,000 and \$1,000,000.

### 9. SITE INSPECTION TO FOLLOW PRE-BID CONFERENCE (After Lunch)

a. the CRM wall along the Waiehu Kou frontage will be re-aligned due to conflicting field conditions. An addendum will be issued.

Various Lot Improvements for Waiehu Kou and Paukukalo Subdivisions IFB No. IFB-20-HHL-012 December 3, 2019

## **DEADLINES FOR SUBMITTALS**

Various Lot Improvements for Waiehu Kou and Paukukalo Subdivisions IFB-20-HHL-012

SUBMITTAL	DEADLINE	
Hawaii Products Preference Request (Form SPO-038)	4:30 P.M., December 4, 2019	
Request for Substitutions (See Item H, 'Instructions for Bid Submittal')	4:30 P.M., December 4, 2019	
Notice of Intention to Bid	4:30 P.M., December <b>¥</b> 9, 2019 ( <i>See Addendum No. 1</i> )	
Written questions (Requests for Clarification)	4:30 P.M., December 4, 2019	
Standard Qualification Questionnaire (SPO Form-21) (SQQ's for previous projects are NOT valid)	4:30 P.M., December <b>X</b> 9, 2019 ( <i>See Addendum No. 1</i> )	
Issuance of Last Addendum- * However, interested bidders are required to check the HANDS website for any Addenda issued up until the Bid Opening date.	December 6, 2019	
<ul> <li>Bid Opening <ul> <li>Sealed bids due by <u>10:00 A.M., December <del>17</del> 19, 2019</u> at the DHHL Maui District Office, at 655 Kaumualii Street, Suite 1, Wailuku, Hawaii 96793, according to its time clock. (<i>See Addendum No. 1</i>)</li> <li>Bids <u>WILL NOT</u> be accepted at the DHHL's Main Office in Kapolei, Oahu. Bids to be submitted at DHHL Maui District Office, at 655 Kaumualii Street, Suite 1, Wailuku, Maui, HI 96793</li> <li>Bids will be opened shortly after 10:00 A.M. and read aloud in a designated area to be determined. (Bidders are welcome to attend).</li> <li>Bids submitted after 10:00 A.M., <u>December 17, 2019</u> will be time-stamped, but not accepted or opened.</li> <li>All the required bid forms are included in the IFB package.</li> </ul> </li> </ul>	10:00 A.M, December <u>17 19</u> , 2019 (See Addendum No. 1)	

## Pre-Bid Conference & Site Visit Schedule

(IFB-20-HHL-004 and IFB-20-HHL-012)

## December 3, 2019

When	What	Estimated Time
	Pre-Bid Conference for IFB-20-HHL-004	
9:00 a.m.	(Keokea-Waiohuli Drainage Improvements	45 mins.
	Pre-Bid Conference for IFB-20-HHL-012	
	(Various Lot Improvements for Waiehu Kou & Paukukalo	
9:45 a.m.	Subdivisions)	45 mins.
10:30 a.m.	Conferences Pau	
10:45 a.m 11:10 a.m.	Site Visit #1 (Corner of Olakino & Koapu'upu'u Street)	25 mins.
	(5 minute commute)	
11:15 a.m 11:45 a.m.	Site Visit #2 (695 & 733 Keanuhea Street)	30 mins.
11:45 a.m 1:00 p.m.	Lunch	
1:45 p.m 2:10 p.m.	Site Visit #3 (Lot 58, WK3; 169 Limu Ele'ele St.)	25 mins.
	(10 minute commute)	
2.20	Site Visit #4 (Waiehu Kou Frontage Walls; Kahekili Hwy	251
2:20 p.m 2:45 p.m.	between Hoola Hou St. and Kohomua St.) (15 minute commute)	25 mins.
3:00 p.m 3:40 p.m.	Site Visit #5 (Lot 4, Paukukalo; 893 Kuhio Pl.)	40 mins.
4:05 p.m.	Return to Airport	

Verior	Verious Lot Improvements for Waiehu Kou and Paukukalo Subdivision	iehu Kou and	Paukukalo S	ubdivision
	IFB-20-	IFB-20-HHL-012		
	Pre Bid Confere	Bid Conference Sign In Sheet	leet	
DECEMBER 3, 2	DECEMBER 3, 2019 at 9:30 a.m Waiohuli	Community C	enter (881 L	- Waiohuli Community Center (881 Lauie Drive, Kula, HI)
Name	Organization	Phone No.	Cell No.	Email
1 Stewart Matsunaga	рннг	620-9283	439-2124/382-1937	Stewart T Materinaga@ha
2 Robert Ing	ЛННС	620-9277	392-4614	<u>Robert. M. Ing@hawaii.gov</u>
3 Bryan Toda	рннг			bryan.toda@hawaii.gov
4 Brooks Aoki	SSFM International	244-7630	357-4787	baoki@ssfm.com
5 Cory Uchima	SSFM International	244-7630	268-8116	cuchima@ssfm.com
6 Grabe / Ocfr Ken	Toms Bucklaue	678-6277	757-2727	gabe@ tous backtue.com
- Collin Camille	Cylobal Special ty	551-3351		Dars ich Cg/obals pecial ty, net
8 FEANE CAMACHE	CPE	531-4252		Camero @ CDE-Maisait Cam
9 Niklei Luong	ATA	233-3646		ntuong @ ata hamaii.cem
10 Grace Juhre	ATA	533-36 WO		gjuhre @ orts hemail. Low
11 Rodney DKan	Alan Construction	3 \$441770	0661445	ra.akay Conchraction Bound
12 Jasa Kuraola	Wass	2244-7,30		Kurache estm com
13				
14				
15				
54				

## WAIEHU KOU FRONTAGE WALL SITE



Facing South-East on Kahekili Highway



Facing North-West on Kahekili Highway

## LOT 58, WAIEHU KOU







## LOT 4, PAUKUKALO SUBDIVISION





## STATE OF HAWAII DEPARTMENT OF HAWAIIAN HOME LANDS

## {REVISED} BID OFFER FORM (ADDENDUM NO. 2)

## FOR

## VARIOUS LOT IMPROVEMENTS FOR WAIEHU KOU AND PAUKUKALO SUBDIVISIONS WAILUKU, MAUI, HAWAII

## IFB NO.: IFB-20-HHL-012

Chairman Hawaiian Homes Commission Department of Hawaiian Home Lands 91-5420 Kapolei Parkway Kapolei, Hawaii 96707

The undersigned has carefully examined, read, and understands the terms and conditions in the Plans and Specifications, Special Conditions attached hereto, DHHL Construction General Conditions, and General Conditions specified in the Invitation for Bids (IFB) No. IFB-20-HHL-012. The State of Hawaii's (State) Contract for Goods and Services Based on Competitive Sealed Bids AG-003 Rev. 6/22/2009, AG-008 103D General Conditions, are included by reference and made part hereof and available upon written request to the Procurement Officer. The undersigned herby submits the following offer to perform the work for IFB No. IFB-20-HHL-012 as specified herein, all in accordance with the true intent and meaning thereof.

The undersigned understands and agrees that:

1. The State reserves the right to reject any and all offers and to waive any items that are defective when, in the State's opinion, such rejection or waiver will be in the best interest of the State. A solicitation may be rejected in whole or part when in the best interest of the State.

2. If awarded the contract, all services will be in accordance with Hawaii Revised Statutes (HRS) § 103-55.5.

3. In submitting this offer, the Offeror is not in violation of HRS Chapter 84, concerning prohibited State contracts.

4. By submitting this offer, the Offeror certifies that the offer was independently arrived at without collusion and the Offeror did not participate in any practices to restrict competition.

5. It is understood that the failure to receive any addendum shall not relieve the Offeror from any obligation under this IFB.

Various Lot Improvements for
Waiehu Kou & Paukukalo Subdivisions
IFB-20-HHL-012

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{Revised} Bid Offer Form November/2019 Addendum No. 2

Date:	
The undersigned represents that it is: (Check  one on A Hawaii business incorporated or organized	
	porated or organized under the laws of the State of waii Department of Commerce and Consumer Affairs o do business in the State of Hawaii.
State of incorporation:	
Offeror is: □ Sole Proprietor □ Partnership □ Corporation	□ Joint Venture □ Other:
Federal ID No.:	
Hawaii General Excise Tax ID No.:	
Telephone No.:	
Fax No.:	
E-Mail Address.:	
Payment address (other than street address below)	
(Street Address, Cit	ty, State, Zip Code)
Business address	
(Street Address, Cit	ty, State, Zip Code)
	Respectfully submitted:
	Authorized (Original) Signature
	Name and Title (Please Type or Print)
	*
	Exact Legal Name of Company (Offeror)

\*If Offeror shown above is a "dba" or a "division" of a corporation, furnish the exact legal name of the corporation under which the awarded contract will be executed:

Various Lot Improvements for Waiehu Kou & Paukukalo Subdivisions IFB-20-HHL-012 The following bid is hereby submitted for IFB-20-HHL-012 for the Department of Hawaiian Home Lands.

## VARIOUS LOT IMPROVEMENTS FOR WAIEHU KOU AND PAUKUKALO SUBDIVISIONS

The prices herein for the following items shall include all materials, labor, tools, equipment, machinery and all incidentals necessary, including excavation and backfill, to install or to construct these items in place complete and in accordance with the plans and specifications. The general excise tax (GET) shall be inclusive in the total bid price.

Item No.		Unit Price	Total
А.	<u>Lot 58, Waiehu Kou (Limu Ele'ele Place)</u>		
A1.	Clearing and Grubbing, Including Handling and Removal of Vegetation and Debris from DHHL Lands; In Place Complete		
	LS	LS	\$
A2.	Installation, Maintenance, Monitoring, and Removal of BMP (8" Thick Ingress/Egress Gravel Access); In Place Complete		
	95 SY	\$	\$
A3.	Installation, Maintenance, Monitoring, and Removal of Temporary Sediment Barrier at Catch Basin; In Place Complete		
	1 EA.	\$	\$
A4.	Installation, Maintenance, Monitoring, and Removal of Sediment Filter Sock; In Place Complete		
	150 LF	\$	\$
A5.	Permanent Erosion Control Measures for All Graded Areas, Including Hydro-Mulch Seeding and 90 Day Maintenance; In Place Complete		
	245 SY	\$	\$

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Item No.		Unit Price	Total
A6.	Excavation; In Place Complete		
	10 CY	\$	\$
A7.	Embankment; In Place Complete		
	160 CY	\$	\$
A8.	North America Green C350 Turf Reinforcement Mat or Approved Substitute; In Place Complete		
	245 SY	\$	\$
A9.	Allowance for Varying Site Condition		
	Allowance	Allowance	\$20,000.00
	SUBTOTAL (A1 – A9):		\$

Item No.		Unit Price	Total
B.	<u>Waiehu Kou Frontage Walls</u>		
B1.	Clearing and Grubbing, Including Removal and Disposal of Existing Irrigation Line and Irrigation Valves, Handling and Removal of Vegetation and Debris from DHHL Lands; In Place Complete		
	LS	LS	\$
B2.	Installation, Maintenance, Monitoring, and Removal of Temporary Sediment Barrier at Catch Basin; In Place Complete		
	1 EA	\$	\$

Item No.		Unit Price	Total
B3.	Installation, Maintenance, Monitoring, and Removal of Sediment Filter Sock; In Place Complete		
	650 LF	\$	\$
B4.	New 2 Feet High Concrete Rock Masonry (CRM) Wall (322 LF); In Place Complete		
	LS	LS	\$
B5.	Irrigation Line Work (Cut and Plug of Existing Irrigation Line and Installation of PVC Pipe Sleeve); In Place Complete		
	LS	LS	\$
B6.	Arboricultural Work, Including Tree Removal, Tree and Root Trimming and Pruning		
	Allowance	Allowance	\$ 3,000.00
B7.	Allowance for Varying Site Condition		
	Allowance	Allowance	\$10,000.00
	SUBTOTAL (B1 – B7):		\$

Item No.		Unit Price	Total
C.	Lot 4 Paukukalo (Kuhio Place)		
C1.	Clearing and Grubbing, Including Handling and Removal of Vegetation, Portion of Wooden Fence, and Debris from DHHL Lands; In Place Complete		
	LS	LS	\$

Item No.		Unit Price	Total
C2.	Installation, Maintenance, Monitoring, and Removal of BMP (8" Thick Ingress/Egress Gravel Access); In Place Complete		
	35 SY	\$	\$
C3.	Installation, Maintenance, Monitoring, and Removal of Temporary Sediment Barrier at Catch Basin; In Place Complete		
	1 EA	\$	\$
C4.	Installation, Maintenance, Monitoring, and Removal of Sediment Filter Sock; In Place Complete		
	310 LF	\$	\$
C5.	Permanent Erosion Control Measures for All Graded Areas, Including Hydro-Mulch Seeding and 90 Day Maintenance; In Place Complete		
	295 SY	\$	\$
C6.	Excavation Including Disposal of Unsuitable Material; In Place Complete		
	625 CY	\$	\$
C7.	Embankment; In Place Complete		
	210 CY	\$	\$
C8.	Concrete Curb; In Place Complete		
	75 LF	\$	\$
С9.	Concrete Header; In Place Complete		
	15 LF	\$	\$

Item No.		Unit Price	Total
C10.	2" Asphalt Concrete; In Place Complete		
	125 SY	\$	\$
C11.	6" Asphalt Concrete Base; In Place Complete		
	125 SY	\$	\$
C12.	18" Select Borrow; In Place Complete		
	125 SY	\$	\$
C13	New ¾" Copper Water Lateral, Including Pipe Bedding and All Pertinent Work for Water Lateral Installation; In Place Complete		
	85 LF	\$	\$
C14	New Concrete Jacket for <sup>3</sup> / <sub>4</sub> " Copper Water Lateral; In Place Complete		
	85 LF	\$	\$
C15.	Adjust Existing Water Meter and Install New Traffic Rated Water Meter Frame and Cover; In Place Complete		
	1 EA	\$	\$
C16.	Concrete Masonry Unit Retaining Wall (226 LF); In Place Complete		
	L.S.	L.S.	\$
C17.	Archaeological Monitoring		
	FA	FA	\$30,000.00

Item No.		Unit Price	Total
C18.	Arboricultural Work, Including Tree Removal, Tree and Root Trimming and Pruning		
	Allowance	Allowance	\$2,000.00
C19.	Allowance for Varying Site Condition		
	Allowance	Allowance	\$35,000.00
	SUBTOTAL (C1 – C19):		\$

SUBTOTALS A, B & C:	\$
GENERAL EXCISE TAX (4.166%) (For Subtotals A, B & C)	\$
TOTAL SUM BID:	\$

## TOTAL SUM BID =

\_\_\_\_\_\_Dollars (\$\_\_\_\_\_\_). <u>The prices herein for the above items shall include all materials, labor, tools, equipment,</u> <u>machinery and all incidentals necessary to install or to construct these items in place</u> <u>complete and in accordance with the plans and specifications contained in this IFB. The</u> <u>total sum bid shall be inclusive of the general excise tax.</u>

The CONTRACTOR shall complete all work as specified or indicated in the Contract Documents on or before <u>Nine (9) Months</u> (270 calendar days) after receiving written Notice to Proceed, subject to extensions, as may be granted.

## HAWAII PRODUCTS PREFERENCE

In accordance with HRS §103D-1002, the Hawaii products preference is applicable to this solicitation. Hawaii Products [are / may be] available for those items noted on the offer form. The Hawaii products list is currently available on the SPO webpage at: <u>http://spo.hawaii.gov/for-vendors/hawaii-product-preferences/</u>.

Offeror submitting a Hawaii Product (HP) shall identify the HP on the solicitation offer page(s). Any person desiring a Hawaii product preference shall have the product(s) certified and qualified if not currently on the Hawaii products list, prior to the deadline for receipt of offer(s) specified in the procurement notice and solicitation. The responsibility for certification and qualification shall rest upon the person requesting the preference.

Persons desiring to qualify their product(s) not currently on the Hawaii product list shall complete form SPO-038, *Certification for Hawaii Product Preference* and submit to the Procurement Officer issuing the solicitation (IFB or RFP), and provide all additional information required by the Procurement Officer. For each product, one form shall be completed and submitted (i.e. 3 products should have 3 separate forms completed). Form SPO-038 is available on the SPO webpage at <u>http://spo.hawaii.gov/all-forms/</u>. The manufacturers and producers must complete and submit SPO-38 to DHHL. <u>The form must be received no later than the date and time specified in the Instructions for Bid Submittal's 'IFB Schedule'</u>. Submittal by facsimile to: (808) 620-9299 is acceptable. SPO-38s received and approved by DHHL in relation to this solicitation as additional certified and qualified Hawaii products will be published via addendum.

Bidders may claim a Hawaii product preference for products that it manufactures or produces with its own workforce and equipment. The SPO-38, *Certification for Hawaii Product Preference*, must be submitted in accordance with the procedures described above in order for Bidder to claim a Hawaii product preference for such Hawaii products Bidder intends to use in this work.

When a solicitation contains both HP and non-HP, then for the purpose of selecting the lowest bid or purchase price only, the price offered for a HP item shall be decreased by subtracting 10% for the class I or 15% for the class II HP items offered, respectively. The lowest total offer, taking the preference into consideration, shall be awarded the contract unless the offer provides for additional award criteria. The contract amount of any contract awarded, however, shall be the amount of the price offered, exclusive of the preferences.

Change in Availability of Hawaii product. In the event of any change that materially alters the offeror's ability to supply Hawaii products, the offeror shall notify the procurement officer in writing no later than five working days from when the offeror knows of the change and the parties shall enter into discussions for the purposes of revising the contract or terminating the contract for convenience.

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SCHEDULE OF ACCEPTABLE HAWAII PRODUCTS AND							
	DESIGNATION OF HAWAII PRODUCTS TO BE USED						
	AWAII PRODUCTS	HAWAII PRODU Cost FOB Jobsite,	HAWAII PRODUCTS TO BE USED Cost FOB Jobsite, Unloaded Including				
		Applicable General	Excise and Use Taxes				
Description	Manufacturer	Base Bid	Additive Alternate				
		\$	\$				
		\$	\$				
		\$	\$				
		\$	\$				
		\$	\$				
		\$	\$				
		\$	\$				
		\$	\$				
		\$	\$				
		\$	\$				

It is further understood by the Bidder that if upon being granted Hawaii Products, and being awarded the contract, if the Bidder fails to use such products or meet the requirements of such preference, the Bidder shall be subject to penalties, if applicable.

## APPRENTICESHIP AGREEMENT PREFERENCE

Hawaii Revised Statutes §103-55.6 (ACT 17, SLH 2009) provides for a Hawai'i Apprenticeship Preference for public works contracts having an estimated value of \$250,000.00 or more. The preference shall be in the form of a 5% bid adjustment applied to the bidder's amount for bidders that are parties to apprenticeship agreements. The estimated value of this public works contract is \$250,000.00 or more and the apprenticeship agreement preference **shall** apply.

To be eligible for the preference, the bidder shall:

- 1. Be a party to an apprenticeship agreement registered with the DLIR at the time the bid is made for each apprenticeable trade the bidder will employ to construct the public works project for which the bid is being made.
  - a. The apprenticeship agreement shall be registered and conform to the requirements of HRS Chapter 372.
  - b. Subcontractors do not have to be a party to an apprenticeship agreement for the bidder to obtain the preference.
  - c. The bidder is not required to have apprentices in its employ at the time the bid is submitted to qualify for the preference.
  - d. If a bidder's employee is multi-skilled and able to perform work in more than one trade (for example, a project requires a carpenter and a laborer, and the employee is a carpenter, but is also able to perform the work of a laborer), the bidder need only be a party to the carpenter's apprenticeship agreement and does not need to be a party to the laborer's apprenticeship agreement in order to qualify for the preference. The bidder is not "employing" a laborer, only a carpenter, and so only needs to be a party to the carpenter's apprenticeship agreement.
  - e. Qualification for the preference is given on a project-by-project basis and depends upon the specific offer for a specific project. A bidder's employees may vary from project to project and may qualify for the preference on one project but may not qualify on another project. For example, on one project, if the bidder only employs carpenters to perform work in the carpentry and labor trades, then the bidder only needs to be a party to the carpenter's apprenticeship agreement in order to qualify for the preference. However, on another project if the same bidder employs both carpenters and laborers, then the bidder will not qualify for the preference if the bidder is only a party to the carpenter's apprenticeship agreement and not the laborer's apprenticeship agreement.
- 2. State the trades the bidder will employ to perform the work;

- 3. For each trade to be employed to perform the work, the bidder shall submit a completed signed original CERTIFICATION OF BIDDER'S PARTICIPATION IN APPROVED APPRENTICESHIP PROGRAM UNDER ACT 17 (Certification Form 1) verifying the participation in an apprenticeship program registered with the State Department of Labor and Industrial Relations (DLIR);
- 4. The *Certification Form 1* shall be authorized by an apprenticeship sponsor of the DLIR list of registered apprenticeship programs. The authorization shall be an original signature by an authorized official of the apprenticeship sponsor; and
- 5. The completed *Certification Form 1* for each trade must be submitted by the bidder with the offer. A facsimile or copy is acceptable to be submitted with the offer; however, the completed **signed original** must be submitted within five (5) working days of the due date of the offer. If the signed original is not received within this timeframe, the preference may be denied. Previous certifications shall not apply.

Failure to comply with ALL of the conditions noted above, without exception, shall disqualify the Bidder from qualifying for, and thus receiving, benefit of the Hawai'i Apprenticeship Preference.

The *Certification Form 1* and the List of Construction Trades in Registered Apprenticeship Programs is available on the DLIR website at: <u>http://labor.hawaii.gov/wdd/</u>.

Upon receiving *Certification Form 1*, the DHHL will verify with DLIR that the apprenticeship program is on the list of apprenticeship programs registered with the DLIR. If the program(s) are not confirmed by the DLIR, the bidder will not qualify for the preference.

If the bidder is certified to participate in an apprenticeship program for each trade which will be employed by the bidder for the project, a preference will be applied to decrease the bidder's total bid amount by five per cent (5%) for evaluation purposes.

Should the bidder qualify for other preferences (for example, Hawaii Products Preference), all applicable preferences shall be applied to the bid amount.

While preference for Hawai'i Apprenticeship will be taken into consideration to determine the low bidder, the contract awarded shall be the original bid amount, exclusive of any preferences. The preference is only for evaluation purposes.

The bidder hereby certifies that it will employ the following apprenticeable trades to perform the work for this project:

TRADE       APPRENTICESHIP PROGRAM SPONSOR         Image: Imag	LIST OF APPRENTICEABLE TRADES TO BE EMPLOYED					
	TRADE	APPRENTICESHIP PROGRAM SPONSOR				

(Add additional sheets if necessary)

## ALL JOINT CONTRACTORS OR SUBCONTRACTORS TO BE ENGAGED ON THIS <u>PROJECT</u>

The Bidder certifies that the following is a complete listing of all joint Contractors or Subcontractors covered under Chapter 444, Hawaii Revised Statutes, who will be engaged by the Bidder on this project to perform the nature and scope of work indicated pursuant to Section 103D-302, Hawaii Revised Statutes, and understands that failure to comply with this requirement shall be just cause for rejection of the bid.

The Bidder further understands that only those joint Contractors or Subcontractors listed shall be allowed to perform work on this project and that all other work necessary shall be performed by the Bidder with his own employees. If no joint Contractor or Subcontractor is listed, it shall be construed that all of the work shall be performed by the Bidder with his own employees.

The Bidders must be sure that they possess and that the Subcontractors listed in the bid possess all the necessary licenses needed to perform the work for this project. The bidder shall be solely responsible for assuring that all the specialty licenses required to perform the work are covered in his bid.

The Bidder shall include the license number of the joint Contractors or Subcontractors listed below. Failure to provide the correct names and license numbers as registered with the Contractor's Licensing Board may cause rejection of the bid submitted.

Complete Firm Name of Joint Contractor or	License Number	Hawaii Tax ID Number	Nature and Scope of Work to be Performed
Subcontractor			

Various Lot Improvements for Waiehu Kou & Paukukalo Subdivisions IFB-20-HHL-012

## METHOD OF AWARD

Bidder is required to bid on the entire project. The low bidder shall be determined by the procedures outlined in items 1) through 4) below:

- 1) Prior to opening of bids, the State will determine the amount of funds available for the project. This amount will be designated the "control amount". The control amount shall be announced at, and prior to the opening of bids.
- 2) The Base Bid and Alternate, if any, of each Bidder will be adjusted to reflect the applicable preferences in accordance with Chapter 103D, HRS. The Alternate, if any, will then be added to the Base Bid and compared with the control amount.
- 3) The low bidder shall be the Bidder having the lowest aggregate amount, within the control amount (after application of the various preferences), for the Base Bid plus the Alternate, if any.
- 4) If adding the Alternate, if any, would make the aggregate amount exceed the control amount for all Bidders, the low bidder shall be the Bidder having the lowest Base Bid after application of the various preferences.

It is further understood and agreed that:

- 1) The Chairman reserves the right to reject any and/or all bids and waive any defects when, in his opinion, such rejection or waiver will be in the best interest of the State.
- 2) After determining the low bidder, an award may be made either on the amount of the Base Bid alone, or including the Alternate (exclusive of preferences), if:
  - a. It is in the best interest of the State;
  - b. Funds are available at time of the award; and
  - c. The combination of the Base Bid plus Alternate does not change the apparent low bidder.
- 3) In the event the Base Bid for all Bidders exceed the control amount, the Chairman reserves the right to negotiate with the lowest responsible and responsive bidder to award a contract within available funds.
- 4) In the event the award is made for the Base Bid alone, the Chairman reserves the right to amend the contract at a later date to include the Alternate should funds subsequently become available.

## **OTHER CONDITIONS**

- 1) The liquidated damages per working day for failure to complete the work on time have been determined and are noted in the Special Conditions of the sample contract.
- 2) By submitting this bid, the undersigned is declaring that his firm has not been assisted or represented on this matter by an individual who has, in a State capacity, been involved in the subject matter of this contract in the past one (1) year.
- 3) By submitting this bid, the undersigned is declaring that Bidder's own organization will perform at least 20% of the contractor's work. For the purposes of this section, the Contractor's work is defined as: direct cost labor for contractor's forces; direct cost materials installed by the contractor's direct cost labor force; direct cost equipment, either owned or leased, used by the contractor's direct cost labor force; and field overhead cost to include: field supervision, field office trailer (if any), field office equipment and supplies, etc.
- 4) Upon the acceptance of the bid by the Chairman, the undersigned must enter into and execute a contract for the same and furnish a Performance and Payment Bond, as required by law. These bonds shall conform to the provisions of Sections 103D-324 and 325, Hawaii Revised Statutes, and any law applicable thereto.
- 5) The quantities given herewith are approximate only and are subject to increase or decrease.
- 6) The estimated quantities shown for items for which a UNIT PRICE is asked in this bid are only for the purpose of comparing on a uniform basis bids offered for the work under this contract. No claim shall be filed for anticipated profit or loss because of any difference between the quantities of the various classes of work done or the materials and equipment actually installed and the said estimated quantities. Payment on UNIT PRICE items will be made only for the actual number of units incorporated into the finished project at the contract UNIT PRICE.
- 7) If the product of the UNIT PRICE BID and the number of units does not equal the total amount stated by the undersigned in the Bid for any item, it will be assumed that the error was made in computing the total amount. For the purpose of determining the lowest Bidder, the stated UNIT PRICE alone will be considered as representing the Bidder's intention and the total amount bid on such items shall be considered to be the amount arrived at by multiplying the UNIT PRICE by the number of units.
- 8) <u>Certification for Safety and Health Programs for Bids in Excess of \$100,000</u>. In accordance with Sections 103D-327 and 396-18, Hawaii Revised Statutes, by submitting this bid, the undersigned certifies that his firm will have a written Safety and Health Plan for this project that will be available and implemented by the Notice to Proceed date of

this project. Details of the requirements of this plan may be obtained from the Department of Labor and Industrial Relations, Occupational, Safety and Health Division.

9) Any contract arising out of this offer is subject to the approval of the Department of the Attorney General as to form, and to all further approvals, including the approval of the Governor, required by statute, regulation, rule, order, or other directive.

Receipt of the following addenda issued by the Department is acknowledged by the date(s) of receipt indicated below:

Date	Date
Addendum No. 1	Addendum No. 5
Addendum No. 2	Addendum No. 6
Addendum No. 3	Addendum No. 7
Addendum No. 4	Addendum No. 8
from any obligation under this IFB as subm	ve any such addendum shall not relieve the Contracto nitted.
	DOLLARS (\$
as required by law, is enclosed herewith in	the form of:
<ul> <li>() Surety Bond (*1)</li> <li>() Legal Tender (*2)</li> <li>() Cashier's Check (*3)</li> <li>() Certificate of Deposit (*3)</li> <li>() Certified Check (*3)</li> </ul>	<ul> <li>() Official Check (*3)</li> <li>() Share Certificate (*3)</li> <li>() Teller's Check (*3)</li> <li>() Treasurer's Check (*3)</li> </ul>
	Respectfully submitted,
	Name of Company, Joint Venture or Partnership
	License No.
	BySignature (*4)
Various Lot Improvements for Waiehu Kou & Paukukalo Subdivisions IFB-20-HHL-012	17 {Revised} Bid Offer Form November/2019 Addendum No.2

Fitle:	
Date:	
Address:	

Telephone No.:

# IF A CORPORATION, AFFIX CORPORATE SEAL TO SIGNATURE, BE SURE TO FILL IN ATTACHED LIST OF SUBCONTRACTORS.

THIS BID FORM MAY NOT BE ALTERED AND BIDDERS MAY NOT QUALIFY OR CONDITION THEIR BIDS IN ANY WAY.

PLEASE FILL OUT THE ATTACHED CERTIFICATE OF RESOLUTION GIVING EVIDENCE OF THE AUTHORITY OF THIS OFFICER TO SUBMIT BIDS ON BEHALF OF THE COMPANY.

NOTES:

- \*1. Surety bond underwritten by a company licensed to issue bonds in this State;
- \*2. Legal tender; or
- \*3. A certificate of deposit; share certificate; or cashier's, treasurer's, teller's, or official check accepted by, and payable on demand to the State by a bank, a savings institution, or credit union insured by the Federal Deposit Insurance Corporation of the National Credit Union Administration.
  - A. These instruments may be utilized only to a maximum of \$100,000.
  - B. If the required security or bond amount totals over \$100,000, more than one instrument not exceeding \$100,000 each and issued by different financial institutions shall be accepted.
- \*4. Please attach to this page evidence of the authority of this officer to submit bids on behalf of the Company, and also the names and residence addresses of all officers of the Company.
- \*5. Fill in all blank spaces with information asked for or bid may be invalidated. <u>BID MUST</u> <u>BE INTACT; MISSING PAGES MAY INVALIDATE YOUR BID.</u>

## CERTIFICATE OF RESOLUTION

I, \_\_\_\_\_\_, Secretary of \_\_\_\_\_\_, a Hawaii Corporation, do hereby certify that the following is a full, true and correct copy of a resolution duly adopted by the Board of Directors of said Corporation, at its meeting duly called and held at the office of the Corporation \_\_\_\_\_\_, Hawaii, on \_\_\_\_\_ day of \_\_\_\_\_\_, 20\_\_\_\_, at which a quorum was present and acting throughout; and that said resolution has not been modified, amended or rescinded and continues in full force and effect.

"RESOLVED that any individual at the time holding the position(s) of \_\_\_\_\_\_\_\_, be, and each of them hereby is, authorized to execute on behalf of the Corporation any bid, proposal or contract for the sale or rental of the products of the Corporation or for the services to be performed by the Corporation and to execute any bond required by any such bid, proposal or contract with the United States Government or the State of Hawaii or the City and County of Honolulu, or any County of Municipal Government of said State, or any department or subdivision of any of them."

IN WITNESS THEREOF, I have hereunto set my hand and affixed the corporate seal of

said \_\_\_\_\_\_ this \_\_\_\_\_ day of \_\_\_\_\_\_, 20\_\_\_.

Secretary

END OF BID



# INDEX TO DRAWINGS

DESCRIPTION

	ADDENDUM NO. 2 (SHEET 1 OF 19)
	T-001         SHEET 1 OF 19         FILE         POCKET         FOLDER         NO.
	WAIEHU KOU RETAINING WALL SECTIONS & DETAILS
	WAIEHU KOU CRM WALL FOUNDATION PLAN
	PAUKUKALO (KUHIO PL) RETAINING WALL SECTIONS & DETAILS
	PAUKUKALO (KUHIO PL) RETAINING WALL ELEVATIONS
	PAUKUKALO (KUHIO PL) RETAINING WALL FOUNDATION PLAN
	TYPICAL DETAILS
	STRUCTURAL GENERAL NOTES
	SITE SECTIONS FOR LOT 4 PAUKUKALO (KUHIO PLACE) – 1 SITE SECTIONS FOR LOT 4 PAUKUKALO (KUHIO PLACE) – 2
	SITE SECTIONS FOR LOT 38 WAIEHO KOU IV (LIMO ELE ELE PLACE) SITE SECTIONS FOR LOT 4 PAUKUKALO (KUHIO PLACE) – 1
	SITE SECTIONS FOR LOT 58 WAIEHU KOU IV (LIMU ELE'ELE PLACE)
	EROSION CONTROL PLAN FOR WAIEHU KOU FRONTAGE WALLS EROSION CONTROL NOTES AND DETAILS
	EROSION CONTROL PLAN FOR LOT 4 PAUKUKALO (KUHIO PLACE)
	EROSION CONTROL PLAN FOR LOT 58 WAIEHU KOU IV (LIMU ELE'ELE PLACE)
	SITE AND GRADING PLAN FOR WAIEHU KOU FRONTAGE WALLS
	SITE AND GRADING PLAN, PROFILE AND DETAILS FOR LOT 4 PAUKUKALO (KUHIO PLACE)
	SITE AND GRADING PLAN FOR LOT 58 WAIEHU KOU IV (LIMU ELE'ELE PLACE)
	CONSTRUCTION NOTES
	TITLE SHEET
$\rightarrow$	

GENERAL CONSTRUCTION NOTES

	INERVE CONSTRUCTION NOTES		
1.	ALL CONSTRUCTION WORK SHALL BE DONE IN ACCORDANCE WITH THE "HAWAII STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND PUBLIC WORKS CONSTRUCTION 2005" AS AMENDED, AND THE "STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION", DATED SEPTEMBER 1984, AS AMENDED, OF THE DEPARTMENT OF PUBLIC WORKS, CITY AND COUNTIES OF	18.	ALL DIMENSIONS AND DETAILS SHOWN ON CHECKED AND VERIFIED PRIOR TO THE S DISCREPANCIES SHALL BE IMMEDIATELY B THE ENGINEER FOR CLARIFICATION.
	THE STATE OF HAWAII, THE "STATE OF HAWAII, DEPARTMENT OF TRANSPORTATION STANDARD PLANS" 2008, THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICE FOR STREETS AND HIGHWAYS", 2009, AND THE		ONTRACTOR'S RESPONSIBILITY FOR (ISTING LINES, PIPES AND SERVICES
2.	CONSTRUCTION DRAWINGS, DETAILS & SPECIFICATIONS PREPARED FOR THIS PROJECT. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT, AND SHALL BE RESPONSIBLE FOR THE REPAIR OR REPLACEMENT OF SAME IN THE EVENT OF DAMAGES	1.	INFORMATION REGARDING THE SITE OF TH OR SPECIFICATIONS HAS BEEN OBTAINED BELIEVED TO BE REASONABLY CORRECT; RESPONSIBILITY OF THE CONTRACTOR TO THE CONTRACTOR SHALL TONE THE AREA ASCERTAIN THE LOCATION OF UNCHARTED
3.	DUE TO HIS CONSTRUCTION PRACTICES. WHEREVER CROSSINGS OR CONNECTIONS OF NEW UTILITIES TO EXISTING UTILITIES ARE SHOWN ON THE PLANS, THE CONTRACTOR SHALL EXPOSE THE EXISTING LINES TO VERIFY THEIR LOCATIONS AND DEPTHS PRIOR TO EXCAVATION FOR THE NEW LINES. THE CONTRACTOR SHALL PROTECT EXISTING UTILITIES AND SHALL BE RESPONSIBLE FOR DAMAGES TO THE	2.	ANY UTILITIES THAT THE CONTRACTOR EN OF THE WORK, SUCH AS BUT NOT LIMITED DUCTS, WATER LINES, SEWER LINES, ELEC WHETHER SHOWN OR NOT ON THE CONTR DISTURBED OR DAMAGED UNLESS OTHERW AND SPECIFICATIONS.
4.	FACILITIES WHETHER SHOWN OR NOT ON THE PLANS. THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES AND STRUCTURES AS SHOWN ON THE PLANS ARE FROM THE LATEST AVAILABLE	3.	IN THE EVENT THE UTILITIES ARE DAMAGE CONTRACTOR, THE CONTRACTOR SHALL B OR DISTURBED UTILITIES.
	DATA, BUT ARE NOT GUARANTEED AS TO THE ACCURACY OF THE ENCOUNTERING OF OTHER OBSTACLES DURING THE COURSE OF LOCATION OF UNCHARTED UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE, AND SHALL PAY FOR ALL DAMAGES TO EXISTING UTILITIES.	4.	THE CONTRACTOR SHALL REPAIR THE DAT TO THE EXISTING CONDITION AT NO COST CLAIMS DUE TO THE DISRUPTION OF SERV
5.	NO CONSTRUCTION EQUIPMENT SHALL BE PARKED WITHIN THE ROAD RIGHT-OF-WAY IN SUCH A MANNER THAT THE EQUIPMENT WILL OBSTRUCT THE NORMAL MOVEMENT AND SIGHT DISTANCE OF THE DRIVING MOTORIST,	-	BEING DAMAGED SHALL BE PAID BY THE HARMLESS THE OWNER AND ENGINEER FR CLAIMS OF ANY CHARACTER BROUGHT ON
6.	EXCEPT DURING ACTUAL WORKING HOURS. EXCEPT DURING ACTUAL WORKING HOURS, ALL SIGNS WHICH DO NOT PERTAIN TO THE CONSTRUCTION ACTIVITY, SUCH AS "MEN WORKING" AND "FLAGMEN AHEAD" SHALL BE COVERED OR LAID DOWN. HOWEVER, ALL SIGNS NECESSARY FOR THE SAFETY OF THE PUBLIC SHALL BE MAINTAINED.	Э.	IN THE EVENT UTILITIES WHICH WERE NOT SPECIFICATIONS ARE DAMAGED OR DISTUF CONTRACTOR SHALL BE HELD LIABLE. TH ALL UTILITY COMPANIES AND EXPOSE ALL EXCAVATION AND/OR INSTALLATION OF LI
7.	THE CONTRACTOR SHALL EMPLOY A HAWAII REGISTERED PROFESSIONAL SURVEYOR TO PERFORM ALL CONSTRUCTION STAKEOUTS, THE COST OF	<u>PL</u>	JBLIC HEALTH, SAFETY AND CONVEN
8.	WHICH SHALL BE BORNE BY THE CONTRACTOR. THE CONTRACTOR SHALL MAKE HIS OWN ARRANGEMENTS FOR, AND PAY FOR ALL TEMPORARY UTILITIES REQUIRED FOR HIS WORK.	1.	THE CONTRACTOR SHALL OBSERVE AND O AND LOCAL LAWS REQUIRED FOR THE PR SAFETY AND ENVIRONMENTAL QUALITY.
9.	THE CONTRACTOR SHALL HAVE AN ARCHAEOLOGICAL MONITOR PRESENT DURING GROUND DISTURBING ACTIVITIES. THE ARCHAEOLOGICAL MONITOR SHALL INSPECT THE EXPOSED SOIL AND THE STRATIGRAPHIC PROFILE OF ANY EXCAVATED TRENCHES IN AN EFFORT TO IDENTIFY ANY PREVIOUSLY UNDISCOVERED AND UNDISTURBED HISTORIC SITES OR REMAINS. SHOULD	2.	THE CONTRACTOR, AT HIS OWN EXPENSE, SURROUNDING AREAS FREE FROM DUST N CONFORMANCE WITH THE AIR POLLUTION THE STATE DEPARTMENT OF HEALTH. THE SUPPLEMENTARY MEASURES AS NECESSA
	HISTORIC SITES SUCH AS WALLS, PLATFORMS, PAVEMENTS AND MOUNDS, OR REMAINS SUCH AS ARTIFACTS, BURIALS, CONCENTRATION OF CHARCOAL OR SHELLS BE ENCOUNTERED DURING CONSTRUCTION WORK, WORK SHALL CEASE IN THE IMMEDIATE VICINITY OF THE FIND AND THE FIND SHALL BE PROTECTED FROM FURTHER DAMAGE. THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE STATE HISTORIC PRESERVATION DIVISION ((808) 692–8015), WHICH WILL ASSESS THE SIGNIFICANCE OF THE FIND AND RECOMMEND AN APPROPRIATE MITIGATION MEASURE, IF NECESSARY. A 3–METER / 10–FOOT WIDE BUFFER ZONE EXISTS AROUND	3.	THE CONTRACTOR SHALL BE RESPONSIBLE REMOVAL OF ALL SILT AND DEBRIS DEPO DOWNSTREAM WATERWAYS, DITCHES AND PRIVATE ROADWAYS GENERATED BY HIS A TO REIMBURSE THE COUNTY OF MAUL FOR PERFORMANCE OF THE ABOVE WORK IF R SAFETY, OR MADE NECESSARY BY NON-F CONTRACTOR.
10	ALL SITES IN PRESERVATION DURING CONSTRUCTION. IT IS HIGHLY IMPORTANT THAT THE PRESERVED SITES REMAIN UNDISTURBED. . THE CONTRACTOR SHALL PROCURE AND PAY FOR ALL LICENSES AND PERMITS AND SHALL GIVE ALL NOTICES NECESSARY AND INCIDENTAL TO	4.	THE CONTRACTOR SHALL PROVIDE, INSTAU SIGNS, LIGHTS, FLARES, BARRICADES, MAI PROTECTIVE FACILITIES AND SHALL TAKE FOR THE PROTECTION, CONVENIENCE AND
11.	THE DUE AND LAWFUL PROSECUTION OF THE WORK. THE CONTRACTOR SHALL RESTORE ALL EXISTING FACILITIES INCLUDING	5.	THE CONTRACTOR SHALL PROVIDE A NOIS WHEN APPLYING FOR A CONSTRUCTION P
	BUT NOT LIMITED TO PAVEMENT, DRAINAGE FACILITIES, CURBS, GUTTERS, SIGNS, LANDSCAPING, IRRIGATION SYSTEMS, ETC., REMOVED OR DAMAGED AS A RESULT OF HIS OPERATION USING MATERIALS AND WORKMANSHIP IN ACCORDANCE WITH "HAWAII STANDARD SPECIFICATIONS FOR ROAD, BRIDGE,	6.	TEMPORARY PEDESTRIAN ROUTES SHALL PASSABLE AND ACCESSIBLE CONDITION C
	AND PUBLIC WORKS CONSTRUCTION", 2005 AS AMENDED, "STANDARD DETAILS", SEPTEMBER 1984 FOR PUBLIC WORKS CONSTRUCTION OF THE	<u>G</u> F	RADING NOTES
12	DEPARTMENT OF PUBLIC WORKS, COUNTY OF MAUI, AS AMENDED. . CONTRACTOR SHALL PROVIDE, INSTALL AND MAINTAIN ALL NECESSARY	1.	ALL GRADING AND STOCKPILING WORK SH MAUI COUNTY CODE, TITLE 20, CHAPTER
	SIGNS, LIGHTS, FLARES, BARRICADES AND OTHER PROTECTIVE DEVICES FOR THE PROTECTION, SAFETY AND CONVENIENCE OF THE PUBLIC ACCORDING TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES	2.	ALL DEBRIS SHALL BE REMOVED FROM TH "RAKE CLEAN" CONDITION.
	FOR STREETS AND HIGHWAYS", 2009 AND THE "RULES AND REGULATIONS GOVERNING THE USE OF TRAFFIC CONTROL DEVICES AT WORK SITES	3.	THE CONTRACTOR, AT HIS EXPENSE, SHA SURROUNDING AREA FREE FROM DUST NU
	ON/OR ADJACENT TO PUBLIC STREETS AND HIGHWAYS", ADOPTED BY THE HIGHWAY SAFETY COORDINATOR AND THE U.S. FEDERAL HIGHWAY ADMINISTRATION "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR HIGHWAY CONSTRUCTION AND MAINTENANCE OPERATIONS", DATED 2005.	4.	ALL GRADING OPERATIONS SHALL BE PER THE APPLICABLE PROVISIONS OF CHAPTER STANDARDS, AND CHAPTER 55, WATER P ADMINISTRATIVE RULES OF THE STATE DE APPLICABLE, THE NPDES PERMIT FOR TH
13	. THE DIRECTOR OF PUBLIC WORKS HAS THE RIGHT TO STOP CONSTRUCTION SHOULD ANY WORK BE FOUND CONTRARY TO THE APPROVED CONSTRUCTION PLAN OR DETRIMENTAL TO THE PUBLIC'S INTEREST.	5.	ALL EXISTING UTILITIES, WHETHER OR NOT BE PROTECTED AT ALL TIMES, UNLESS NO
14	THE CONTRACTOR, AT HIS OWN EXPENSE, SHALL KEEP THE PROJECT AREA AND SURROUNDING AREA FREE FROM DUST NUISANCE. THE WORK SHALL BE IN CONFORMANCE WITH THE AIR POLLUTION CONTROL STANDARDS AND REGULATIONS OF THE STATE DEPARTMENT OF HEALTH, AND COUNTY GRADING ORDINANCE.	6.	ALL PLANTER AREAS SHALL BE SODDED GRADES HAVE BEEN ESTABLISHED. PLANT UNTIL ALL GRADING WORK HAS BEEN CON GRADE SHALL BE CONTINUOUS, AND ANY BEEN INTERRUPTED OR DELAYED SHALL E MAINTAINED TO MINIMIZE EROSION.
15	. THE CONTRACTOR SHALL REMOVE AND DISPOSE ALL SILT AND DEBRIS DEPOSITED IN DRAINAGE FACILITIES, ROADWAYS AND OTHER AREAS RESULTING FROM HIS WORK. THE COST INCURRED FOR ANY NECESSARY REMEDIAL ACTION ORDERED BY THE DIRECTOR OF PUBLIC WORKS SHALL BE PAID BY THE CONTRACTOR.	7.	THE CONTRACTOR SHALL OBTAIN A GRAD DEVELOPMENT SERVICES ADMINISTRATION COMMENCEMENT OF ANY CLEARING AND C EROSION CONTROL PLAN SHOWING STRUC
16	CONSTRUCTION DEBRIS AND WASTES SHALL BE DEPOSITED AT AN APPROPRIATE SITE. THE CONTRACTOR SHALL INFORM THE DIRECTOR OF PUBLIC WORKS OF THE LOCATION OF THE DISPOSAL SITES. THE DISPOSAL SITE MUST FULFILL THE REQUIREMENTS OF THE GRADING ORDINANCE. THE CONTRACTOR SHALL MINIMIZE ITS CONSTRUCTION DEBRIS AND SOLID WASTES.		MANAGEMENT PRACTICES MUST BE SUBMI PRIOR TO ISSUANCE OF A GRADING PERM CLEARING AND GRUBBING WORK.
17.	. CONTRACTOR SHALL PROVIDE VEHICULAR AND PEDESTRIAN ACCESS ROUTES AT ALL TIMES TO ALL EXISTING FACILITIES.		

JOB NO. 17-518

## DETAILS SHOWN ON THE DRAWINGS SHALL BE IED PRIOR TO THE START OF CONSTRUCTION. AND ANY LL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF

- DING THE SITE OF THE WORK GIVEN ON THE DRAWINGS HAS BEEN OBTAINED BY THE ENGINEER AND IS ASONABLY CORRECT; HOWEVER, IT IS THE THE CONTRACTOR TO VERIFY ALL SUCH INFORMATION.
- HALL TONE THE AREA TO BE EXCAVATED TO ATION OF UNCHARTED UTILITIES.
- THE CONTRACTOR ENCOUNTERS DURING THE PROGRESS AS BUT NOT LIMITED TO TELEPHONE DUCTS, ELECTRIC , SEWER LINES, ELECTRIC LINES AND DRAINAGE PIPES, NOT ON THE CONTRACT PLANS, SHALL NOT BE AGED UNLESS OTHERWISE INSTRUCTED IN THE PLANS
- JTILITIES ARE DAMAGED OR DISTURBED BY THE CONTRACTOR SHALL BE HELD LIABLE FOR THE DAMAGED
- HALL REPAIR THE DAMAGED OR DISTURBED UTILITIES NDITION AT NO COST TO THE OWNER. ANY DAMAGE DISRUPTION OF SERVICE CAUSED BY THE UTILITIES ALL BE PAID BY THE CONTRACTOR, WHO SHALL SAVE ER AND ENGINEER FROM ALL SUITS. ACTIONS OR ARACTER BROUGHT ON ACCOUNT OF SUCH DAMAGES.
- TIES WHICH WERE NOT SHOWN ON THE PLANS AND DAMAGED OR DISTURBED BY THE CONTRACTOR, THE BE HELD LIABLE. THE CONTRACTOR SHALL CONTACT IES AND EXPOSE ALL UTILITY LINES PRIOR TO ANY INSTALLATION OF LINES.

## FETY AND CONVENIENCE

- HALL OBSERVE AND COMPLY WITH ALL FEDERAL, STATE EQUIRED FOR THE PROTECTION OF PUBLIC HEALTH,
- AT HIS OWN EXPENSE, SHALL KEEP THE PROJECT AND FREE FROM DUST NUISANCE. THE WORK SHALL BE IN THE AIR POLLUTION STANDARDS AND REGULATIONS OF MENT OF HEALTH. THE COUNTY OF MAUI MAY REQUIRE ASURES AS NECESSARY.
- HALL BE RESPONSIBLE FOR THE CLEANING AND LT AND DEBRIS DEPOSITED AND ACCUMULATED WITHIN WAYS, DITCHES AND DRAIN PIPES AND ON PUBLIC AND GENERATED BY HIS WORK. THE CONTRACTOR AGREES COUNTY OF MAUL FOR ALL COSTS EXPENDED IN HE ABOVE WORK IF REQUIRED FOR PUBLIC HEALTH AND ECESSARY BY NON-PERFORMANCE BY THE
- HALL PROVIDE, INSTALL AND MAINTAIN ALL NECESSARY ES, BARRICADES, MARKERS, CONES AND OTHER ES AND SHALL TAKE ALL NECESSARY PRECAUTIONS N, CONVENIENCE AND SAFETY OF THE PUBLIC.
- HALL PROVIDE A NOISE POLLUTION CONTROL PLAN A CONSTRUCTION PERMIT.
- RIAN ROUTES SHALL BE MAINTAINED IN SAFE, ESSIBLE CONDITION COMPLYING WITH ADAAG 402.1.
- TOCKPILING WORK SHALL BE IN ACCORDANCE WITH TITLE 20, CHAPTER 8.
- BE REMOVED FROM THE SITE AND PREMISES LEFT IN A
- T HIS EXPENSE, SHALL KEEP THE PROJECT AND FREE FROM DUST NUISANCE.
- TIONS SHALL BE PERFORMED IN CONFORMANCE WITH OVISIONS OF CHAPTER 54, WATER QUALITY HAPTER 55, WATER POLLUTION CONTROL, OF TITLE 11, ES OF THE STATE DEPARTMENT OF HEALTH, AND IF IPDES PERMIT FOR THE PROJECT.
- ES, WHETHER OR NOT SHOWN ON THE PLANS, SHALL ALL TIMES, UNLESS NOTED OTHERWISE.
- SHALL BE SODDED OR PLANTED AS SOON AS FINAL ESTABLISHED. PLANTING SHALL NOT BE DELAYED WORK HAS BEEN COMPLETED. GRADING TO FINAL ONTINUOUS, AND ANY AREA WITHIN WHICH WORK HAS OR DELAYED SHALL BE PLANTED. PLANTING SHALL BE

### HALL OBTAIN A GRADING PERMIT FROM THE ICES ADMINISTRATION TWO WEEKS PRIOR TO

ANY CLEARING AND GRUBBING WORK. A SITE SPECIFIC PLAN SHOWING STRUCTURAL & NON-STRUCTURAL BEST ICES MUST BE SUBMITTED TO AND APPROVED BY LUCA OF A GRADING PERMIT. COMMENCEMENT OF ANY

- 8. THE UNDERGROUND PIPES, CABLES OR DUCTLINES KNOWN TO EXIST BY THE ENGINEER FROM HIS SEARCH OF RECORDS ARE INDICATED ON THE PLANS. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF THE FACILITIES AND EXERCISE PROPER CARE IN EXCAVATING IN THE AREA. WHEREVER CONNECTIONS OF NEW UTILITIES TO EXISTING UTILITIES ARE SHOWN ON THE PLANS. THE CONTRACTOR SHALL EXPOSE THE EXISTING LINES AT THE PROPOSED CONNECTIONS TO VERIFY THEIR LOCATIONS AND DEPTHS PRIOR TO EXCAVATION FOR THE NEW LINES.
- 9. THE COUNTY SHALL BE INFORMED OF THE LOCATION OF THE BORROW/DISPOSAL SITE FOR THE PROJECT WHEN THE APPLICATION FOR A GRADING PERMIT IS MADE. THE BORROW/DISPOSAL SITE MUST ALSO FULFILL THE REQUIREMENTS OF THE GRADING ORDINANCE.
- 10. NO GRADING WORK SHALL BE DONE ON SATURDAYS, SUNDAYS AND HOLIDAYS AT ANY TIME WITHOUT PRIOR NOTICE TO THE CHIEF ENGINEER.
- 11. THE LIMITS OF THE AREA TO BE GRADED SHALL BE FLAGGED BEFORE THE COMMENCEMENT OF THE GRADING WORK.

## SOLID WASTE CONSTRUCTION NOTES

UNLESS OTHERWISE SPECIFIED, THE CONTRACTOR IS RESPONSIBLE FOR THE PROPER HANDLING, STORAGE AND/OR DISPOSAL OF ALL WASTE GENERATED BY THE CONSTRUCTION INCLUDING GRUBBING AND EXCESS EXCAVATED MATERIAL. ANY MATERIAL BROUGHT TO THE COUNTY LANDFILLS WILL BE SUBJECTED TO THE INSTITUTED TIPPING FEE SYSTEM, WITH NO EXCEPTIONS OR EXEMPTIONS.

## TEMPORARY DUST CONTROL MEASURES

- 1. EXCAVATION, EMBANKMENT AND IMPORTED MATERIALS SHALL BE KEPT DAMPENED WITH WATER DURING THE GRADING OPERATIONS.
- 2. THE CONTRACTOR SHALL MAINTAIN A SUITABLE WATER SYSTEM AND DAMPEN THE GRADED OR GRUBBED SITE WITH WATER.
- 3. AT THE END OF EACH DAY, SEVEN (7) DAYS A WEEK, THE PROJECT SITE SHALL BE KEPT DAMP WITH WATER. THE SITE SHALL BE SUFFICIENTLY DAMPENED SO THAT THE SITE WILL REMAIN MOISTENED DURING THE NIGHT.

## NOTES FOR ENVIRONMENTAL PROTECTION

- 1. ENVIRONMENTAL PROTECTION NOTES PERTAINING TO AIR AND WATER POLLUTION SHALL BE ADMINISTERED AND MONITORED BY THE DEPARTMENT OF HEALTH.
- 2. THE CONTRACTOR, AT HIS OWN EXPENSE, SHALL PROVIDE EFFECTIVE MEASURES FOR THE CONTROL OF FUGITIVE DUST EMISSIONS FROM THE PROJECT AND SURROUNDING AREAS CAUSED BY HIS OPERATIONS, THESE MEASURES SHALL MEET THE REQUIREMENTS OF STATE ADMINISTRATIVE RULES, DEPARTMENT OF HEALTH, AIR POLLUTION CONTROL (11–60.1).
- 3. ALL GRADING OPERATIONS SHALL BE PERFORMED IN CONFORMANCE WITH THE APPLICABLE PROVISIONS OF THE GRADING ORDINANCE TO PREVENT VIOLATION OF THE STATE ADMINISTRATIVE RULES, DEPARTMENT OF HEALTH, WATER POLLUTION CONTROL AND WATER QUALITY STANDARDS (11-54, 11-55) DUE TO EROSION AND RUNOFF TO STATE WATERS.
- 4. GRUB MATERIAL, DEMOLITION WASTES, AND CONSTRUCTION WASTES SHALL BE DISPOSED OF AT AN AUTHORIZED SITE HAVING A DEPARTMENT OF HEALTH SOLID WASTE MANAGEMENT PERMIT. OPEN BURNING IS PROHIBITED.
- 5. PERMITS REQUIRED:
- A. A NPDES PERMIT MAY BE REQUIRED FROM THE CLEAN WATER BRANCH OF THE DEPARTMENT OF HEALTH FOR STORM WATER DISCHARGE AND HYDROTESTING.
- B. A DEWATERING PERMIT MAY BE REQUIRED TO BE OBTAINED FROM THE CLEAN WATER BRANCH OF THE DEPARTMENT OF HEALTH IF DISCHARGING INTO STATE WATERS.
- C. PERMIT MUST BE OBTAINED PRIOR TO START OF CONSTRUCTION.
- 6. ENVIRONMENTAL PROTECTION NOTES PERTAINING TO AIR AND WATER POLLUTION SHALL BE ADMINISTERED AND MONITORED BY THE DEPARTMENT OF HEALTH.

## PERMANENT EROSION CONTROL MEASURES

- 1. THE CONTRACTOR SHALL GRASS ALL EXPOSED AREAS THAT HAVE BEEN CONSTRUCTED TO FINAL GRADES WITHIN A PERIOD OF 30 CALENDAR DAYS. ALL COSTS FOR MAINTAINING AND WATERING PERMANENT EROSION CONTROL MEASURES WILL BE BORNE BY THE CONTRACTOR.
- 2. THE CONTRACTOR MAY USE HYDRO-MULCH TO APPLY THE PERMANENT GROUND COVER.
- 3. PERMANENT BERMUDA GROUND COVER SHALL CONSIST OF 30 LBS. PER ACRE UNHULLED AMERICAN BUFFELGRASS SEED, 50 LBS. PER ACRE ANNUAL RYE GRASS, 6,000 LBS. PER ACRE GYPSUM BASED GEOBINDER, 2,000 LBS. PER ACRE WOOD CELLULOSE FIBER MULCH, AND 400 LBS. PER ACRE 10-30-10 FERTILIZER.

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	LICENSED PROFESSIONAL ENGINEER No. 9790-C HALI, U.S. THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION		brief STIN, TSUTSUMI ieers, surveyors Epartment of haw, RIOUS LOTS I KULA, MAUI	• aiian home MPROVEN	HONOLULU LANDS	
	signature expiration date of the license	CONSTRUCTION NOTES				
		designed by DO	drawn by DO	CHECKE	d by <b>PA</b>	
O 1 2 LINE IS 2 INCHES AT FULL SIZE (If NOT 2-inches : Scale Accordingly)	CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION AS DEFINED IN SECTION 16-115-2, HAWAII ADMINISTRATIVE RULES, DEPARTMENT OF COMMERCE AND CONSUMER AFFARS, STATE OF HAWAII, PROFESSIONAL ENGINEERS, ARCHITECTS, SURVEYORS AND LANDSCAPE ARCHITECTS.	APPROVED SUBMITTED BY				
C-	001 SHEE	T 2 OF 19	FILE	POCKET	FOLDER	NO.









JOB NO. 17-518






ADDENDUM NO. 2 (SHEET 7 OF 19)



JOB NO. 17-518

PROPERTY LINE		Cross walk
	104	
		TO WAILUKU
	ROFESSIONAL	Image: ADD. NO. 2: REVISED PROPERTY LINE AND CRM WALL ALIGNMENT     ATA       REVISION     DATE     BRIEF     MADE BY     APPROVED
	* ENGINEER No. 9790-C HAMAII, U.S.	AVA AUSTIN, TSUTSUMI & ASSOCIATES, INC. Engineers, surveyors • Honolulu, hawaii
	THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION	DEPARTMENT OF HAWAIIAN HOME LANDS VARIOUS LOTS IMPROVEMENTS KULA, MAUI, HAWAII
	signature expiration date of the license	EROSION CONTROL PLAN FOR WAIEHU KOU FRONTAGE WALLS
	CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION AS DEFINED IN SECTION 16-115-2, HAWAII ADMINISTRATIVE RULES, DEPARTMENT OF COMMERCE AND CONSUMER AFFARS, STATE OF HAWAII, PROFESSIONAL ENGINEERS, ARCHITECTS,	DESIGNED BY DO DRAWN BY DO CHECKED BY PA APPROVED SUBMITTED BY
LINE IS 2 INCHES AT FULL SIZE (If NOT 2-inches : Scale Accordingly)	SURVETORS AND LANDSCAPE ARCHITECTS.	DATE FIRM MEMBER DATE
<b>C-</b>	105 SHEE	T 8 OF 19
		ADDENDUM NO.2 (SHEET 8 OF 19)

1.	ALL AFFECTED STORM DRAIN INLETS ALONG THE PROJECT SITE SHALL USE AN INLET PROTECTION DEVICE. SEE DETAIL THIS	WOVE MONO SEDII
2.	SHEET. DURING CONSTRUCTION, DUST POLLUTION SHALL BE KEPT TO	BARF
3.	A MINIMUM. THE CONTRACTOR SHALL ENSURE THAT ALL TIRES OF CONSTRUCTION VEHICLES ARE SUFFICIENTLY CLEANED OFF SO THAT DIRT OR DEBRIS IS NOT TRACKED OFF THE CONSTRUCTION SITE. WASHING OFF TIRES WITH WATER WILL NOT BE ACCEPTABLE UNLESS THE RUNOFF IS CONTAINED AND DOES NOT ENTER THE STORM DRAIN SYSTEM.	AGGR FILLE <u>NOTE</u> TO E CATC IMME
4.	THE CONTRACTOR SHALL REMOVE FILTERS DURING TIMES OF ABOVE NORMAL RAINFALL EVENTS AND REPLACE THEM WHEN EVENT HAS PASSED.	STRE
5.	THE CONTRACTOR SHALL CHECK THE CONDITION OF THE FILTER AT THE BEGINNING AND ENDING OF EACH WORK DAY AND REPAIR/CLEAN AS NECESSARY.	
6.	THE CONTRACTOR, AT HIS OWN EXPENSE, SHALL PROVIDE EFFECTIVE MEASURES FOR THE CONTROL OF FUGITIVE DUST EMISSIONS FROM THE PROJECT AND SURROUNDING AREAS CAUSED BY THIS OPERATIONS. THESE MEASURES SHALL MEET THE REQUIREMENTS OF STATE ADMINISTRATIVE RULES, DEPARTMENT OF HEALTH, AIR POLLUTION CONTROL (11-60.1).	
7.	THE PROJECT SITE THAT IS CLEARED OF VEGETATION SHALL BE KEPT DAMP FOR SEVEN (7) DAYS A WEEK. AT THE END OF EACH DAY, THE SITE SHALL BE SUFFICIENTLY DAMPENED SO THAT THE SITE WILL REMAIN MOISTENED DURING THE NIGHT.	SANDBAG — MIN. LENGTH=18" MIN. WIDTH=12"
8.	IF REQUIRED, THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS SO THAT EXCAVATION, EMBANKMENT, AND IMPORTED MATERIAL SHALL BE DAMPENED TO PREVENT DUST PROBLEMS.	MIN. THICKNESS=3 PLACE EVERY 6'T  FILT
9.	THE CONTRACTOR SHALL MAINTAIN A SUITABLE SYSTEM AND DAMPEN THE GRUBBED SITE WITH WATER.	
10.	THE CONTRACTOR SHALL REMOVE ALL SILT AND DEBRIS RESULTING FROM HIS WORK AND DEPOSITED IN DRAINAGE REMEDIAL ACTION SHALL BE PAYABLE BY THE CONTRACTOR.	WORK AREA
<u>P(</u>	DST CONSTRUCTION:	
1.	THE CONSTRUCTION AREA AND SURROUNDING AREAS AND ADJOINING STREETS SHALL BE CLEARED OF ALL TRASH AND DEBRIS.	
2.	ALL MOBILIZED EQUIPMENT SHAIL BE REMOVED.	
3.	EXCESS EXCAVATED MATERIAL NOT UTILIZED FOR BACKFILL SHALL BE REMOVED. ALL EXCESS MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE HAULED FROM THE JOBSITE.	
4.	HAULING OF WET, DRIPPING MATERIAL OVER PUBLIC STREETS WILL NOT BE PERMITTED.	
		Ţ



EET 9	OF	19)
	EET 9	EET 9 OF

	LICENSED PROFESSIONAL ENGINEER No. 9790-C HAMAII, U.S. M.		brief IN, TSUTSUMI rs, surveyors	•	CIATES, Honolulu,	
	THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION		artment of hawaii OUS LOTS IM kula, maui,	PROVEN		
		ER	OSION CONT AND DE		DTES	
0 1 2	CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION AS DEFINED IN SECTION 16-115-2, HAWAII ADMINISTRATIVE RULES, DEPARTMENT OF COMMERCE AND CONSUMER AFFARS, STATE OF HAWAII, PROFESSIONAL ENGINEERS, ARCHITECTS,	DESIGNED BY DO	drawn by DO	CHECKEI	d by <b>PA</b>	
LINE IS 2 INCHES AT FULL SIZE (If NOT 2-inches : Scale Accordingly)	COMMERCE AND CONSUMER AFAIRS, STATE OF HAWAII, PROFESSIONAL ENGINEERS, ARCHITECTS, SURVEYORS AND LANDSCAPE ARCHITECTS.		DATE FIR	M MEMBER		DATE
<b>C</b> -	106 SHEE	T 9 OF 19	FILE	POCKET	FOLDER	NO.



JOB NO. 17-518

88		88		
84		84		
80		80		FINISH GRADE
				EXIST. GROUND
76		76		
				10
				4.7%
			0.6%	3.3% -73.88
72		72		73.77±-/
				SECTION
				SCALE: HORIZ: 1'
				VERT.: 1'
IONS FOR LOT 58 WAIEHU	KUU IV (LIM	U ELE ELE	PLACE)	
				(

	P								
	LOT 58	LOT 54							
			£				88		
		/							
	/į	229.9%							
							84		
/									
							80		
							76		
0.									
8									
0							72		
<u>12</u>									
1"=10' 1"=2'									
			PAUL K. A	PILA		2/06/19	ADD. NO. 2: REVISED STREET NAME	ATA	
		<b>(</b> *	LICENSED PROFESSION ENGINEER No. 9790-	AL c →	REVISION		BRIEF STIN, TSUTSUMI & A NEERS, SURVEYORS •	SSOCIATES	, INC.
			WORK WAS PREPA	ARED BY ME			EPARTMENT OF HAWAIIAN H		, IIATAII
		OR U CONS	BE UNDER MY SUPER	VISION AND S PROJECT BSERVATION		VA	RIOUS LOTS IMPRO kula, maui, hawa		
		signatu		4/30/20 expiration date of the license			SITE SECTIONS	FOR	
						(	LOT 58 WAIEHU	KUU_IV PLACE) /1	7
					DESIGNED B	BY DO	DRAWN BY DO	снескер ву РА	
O LINE IS 2	1 INCHES AT FULL	2 CONST MY OBSE HAWA SIZE	Ruction of this project Rvation as defined in S II administrative Rules, I Ierce and Consumer Aff I, professional Enginee Rveyors and Landscape	T WILL BE UNDER SECTION 16-115-2, DEPARTMENT OF FAIRS, STATE OF RS, ARCHITECTS.	APPROVE		SUBMITTE		
	inches : Scale Accord			ARCHITECTS.			DATE FIRM MEMBE		DATE
	(	<b>C-20</b>	0	SHEE	T 10 C	)F 19	9	OCKET FOLDER	NO.
							ADDENDUM NO.	<b>2</b> (Sheet	10 OF 19)



					$\frown$			$\frown$	$\sim$
	F F	P R				P LOT 5 LOT 4	PLOT 3		
5010	LOT 5	LOT 4 LOT 3	5010	5010	TW=5008		TW=5008.50	5010	$\rightarrow$
					RETAINING WA	AC DRIVEWAY	D/W=5006.50		
	TW=5006.45				D/W=500		BW=5006.30		
	RETAINING WALL 2	AC DRIVEWAY					FINISH GRAD	E	
5006	D/W=5004.45		5006	5006	EXIST. GROUNE		4.0% -9.2%	5006	
	EXIST. GROUND					TF=5005.00	EG=5005	5.89±	
	EXIST. BLDG.		ONC. CURB	EXIS BLD	ST. FINISH GRADE				
5002		FINISH GRADE	5002	5002		/ BW=5001	.70	5002	
	<u></u>	TF=5001.00		<u> </u>	///// 2.6%	1.1%			
	EG=5001.6± BW=5001.50				EG=5001.6±				
4998			4998	4998				4998	
		SECTION 2				<u>SECTION</u>			$\rightarrow$
		SCALE: HORIZ: 1"=10' VERT.: 1"=2'				SCALE: HORIZ: VERT.:	1"=10' 1"=2'		
5016									
		LOT 6	LOT 4		$\checkmark$			$\overline{}$	
	5018		TW=5016.30	5018					
			RETAINING WALL 2						
5012			D/W=5014.30±						
	5014	EXIST. GROUND FINISH GRADE	0.8%	<u>3.0%</u> 5014					
5008		EG=5011.60±	BW=5012.00						
					$\sim$				
	5010		TF=5009.00	5010					
5004						OAUL K. APIA	12/06/19 ADD. NO. 2: RE	vised footing elevations	ATA
						LICENSED ★ PROFESSIONAL ENGINEER ★	REVISION DATE	BRIEF	MADE BY AF
	5006		SECTION 5	5006		No. 9790-C	AUSTIN, TSU Engineers, surve DEPARTMENT	VORS • OF HAWAIIAN HOME	
5000			SCALE: HORIZ: 1"=10'           VERT.: 1"=2'		$\langle$	THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION	VARIOUS L	OTS IMPROVEN	
					$ \rightarrow $	Signature expiration date of the license	SITE	SECTIONS FO	
SITE SE	CTIONS FOR LOT 4 PA	UKUKALO (KI	JHIO PLACE) – 1	$\gamma$			(KUHI	4 PAUKUKALO	1
SCALE: HORIZ: 1 VERT.: 1	"=10'				1 2	Construction of this project will be under My deservation as defined in section 18-115-2.	designed by DO drawn	BY DO CHECKE SUBMITTED BY	ed by <b>PA</b>
					INCHES AT FULL SIZE Iches : Scale Accordingly)	CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION AS DEFINED IN SECTION 16-115-2, HAWAWI ADMINISTRATIVE RULES, DEPARTMENT OF COMMERCE AND CONSUMER AFFAIRS, STATE OF HAWAWI, PROFESSIONAL ENGINEERS, ARCHITECTS, SURVEYORS AND LANDSCAPE ARCHITECTS.		DATE FIRM MEMBER	
					C-2	<b>201</b> SHE	ET 11 OF 19	FILE POCKET	FOLDER



JOB NO. 17-518

5016	5018			EO40				
5016	5018 TW=5015.93	P I		5018				
	RETAINING WALL 1	LOT 4	LOT 3					
	D/W=5013.93±							
5012	5014			5014				
			-EXIST. GRO	DUND				
	BW=5009.00		FINISH GRA	ADE				
5008	5010		/EG=500	5010 8.68±				
		2.2%	/			2		
	TF=5007.00	.8%	0.3%					
						$\langle$		
5004	5006	SECTION	7	5006				
		SCALE: HORIZ: 1"= VERT.: 1"=						
			2			2		
5020								
5016								
5012								
		<u> </u>						
						PHUL K. AP	Image: Note of the state of the st	ATA MADE BY APPROVED
5008						★ PROFESSIONAL ENGINEER No. 9790-C HAII, U.S.	AUSTIN, TSUTSUMI & ASSO ENGINEERS, SURVEYORS •	DCIATES, INC. honolulu, hawaii
						THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION	DEPARTMENT OF HAWAIIAN HOME VARIOUS LOTS IMPROVE kula, maui, hawaii	
						Signature expiration date of the license	SITE SECTIONS FO	
							LOT 4 PAUKUKAL (KUHIO PLACE) –	
DINS FOR LOT 4 PA	UKUKALO (KUHIO PLACE) – 2	4			1		DESIGNED BY DO DRAWN BY DO CHECK	ked by <b>PA</b>
					1 2 INCHES AT FULL SIZE	CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION AS DEFINED IN SECTION 16-115-2, HAWAII ADMINISTRATIVE RULES, DEPARTMENT OF COMMERCE AND CONSUMER AFFAIRS, STATE OF HAWAII, PROFESSIONAL ENGINEERS, ARCHITECTS, SURVEYORS AND LANDSCAPE ARCHITECTS.	APPROVED SUBMITTED BY	
				(If NOT 2-i	inches : Scale Accordingly)		DATE FIRM MEMBER	DATE FOLDER NO.
					<b>U</b> -		ADDENDUM NO. 2	(SHEET 12 OF 19)

	IERAL		UNDATION
1.	ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE DRAWINGS.	1.	ASSOCIATES,
2.	THE STRUCTURAL DRAWINGS REPRESENT THE FINISHED STRUCTURE AND DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND PROVIDE ALL MEASURES NECESSARY TO PROTECT THE		893 KUHIO F THE CONTRAC AND SUBSEQ
	STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO BRACING, SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT,		A. SUBSU
	WIND AND SEISMIC LOADING. OBSERVATION VISITS TO THE SITE BY THE ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS NOR RELIEVE THE CONTRACTOR OF HIS/HER OBLIGATIONS, DUTIES AND RESPONSIBILITIES.		LITTLE B. RETAINI
3.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXCAVATION PROCEDURES INCLUDING LAGGING, SHORING AND PROTECTION OF PROPERTY AND UTILITIES.		
4.	THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COORDINATING THE WORK OF ALL TRADES AND SHALL CHECK ALL DIMENSIONS. ALL DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE ENGINEER AND BE RESOLVED BEFORE PROCEEDING WITH THE WORK.		C. LATERA COEFFI ACTIVE PASSIVI
5.	NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES.		
5.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING ALL DIMENSIONS.	2.	IN ALL AREAS WEEDS, BRUS
7.	SHOP DRAWINGS REQUIRED SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATION OR ORDERING OF MATERIALS.	3.	DELETERIOUS
3.	THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UNDERGROUND UTILITY LINES AND NOTIFY THE RESPECTIVE OWNERS BEFORE COMMENCING WITH WORK. SEE CIVIL DRAWINGS FOR ADDITIONAL INFORMATION. IMMEDIATELY NOTIFY THE ENGINEER OF ANY CONFLICTS.		MOISTURE CC MOISTURE CC PERCENT OF SPOTS ARE E MATERIAL ANI
9.	DESIGN CRITERIA -		COMPACTED
	A. CODES: 2012 INTERNATIONAL BUILDING CODE	4.	A MINIMUM 1 AT THE BACK BASE OF THE 12 INCHES C
	B. WIND: BASIC WIND SPEED = 115 MPH EXPOSURE C	5.	THE ONSITE
	C. SEISMIC: SEISMIC DESIGN CATEGORY = D		3 INCHES IN COMPACTION. NON-EXPANS
10.	SPECIAL INSPECTION REQUIREMENTS FOR RETAINING WALL CONSTRUCTION.	0	SPECIFICATION
	A. FOOTING CONCRETE NOT REQUIRED	6.	THE ONSITE BACKFILLING HORIZONTAL
	B. FOOTING REINFORCING STEEL NOT REQUIRED		TO A MINIMU OVERCOMPAC
	C. MASONRY AND REINFORCING STEEL LEVEL 1		BE AVOIDED. SHOULD BE
	D.     WALL CONCRETE     REQUIRED       E.     WALL REINFORCING STEEL     REQUIRED		PERCENT CO
	E. WALL REINFORCING STEEL REQUIRED CONTRACTOR SHALL HIRE AND PAY FOR THIRD-PARTY TESTING SERVICES.	7.	PRIOR TO PL ALL FOOTING
	STRUCTURAL OBSERVATION PROVIDED BY ENGINEER SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITIES TO COMPLETE THE PROJECT IN ACCORDANCE WITH THE DRAWINGS AND TO PROVIDE SAFETY ON SITE. CONTRACTOR SHALL	00	THAT HAVE E
	NOTIFY SPECIAL INSPECTOR AT LEAST 72 HOURS IN ADVANCE FOR WORK TO BE PERFORMED REQUIRING SPECIAL INSPECTION.		<u>NCRETE</u>
		1.	CONCRETE W
		2.	ALL CONCRE TYPE (150#/ OR II. CONC AND SHALL I
		3.	SCHEDULE O
			FOUNDATIONS
			WALLS
		4.	CLEAR COVER FOLLOWS (U.
			A. CONCR AGAINS
			B. CONCR FORMW

- DESIGN IS BASED ON GEOTECHNICAL REPORT BY HIRATA AND INC. "GEOTECHNICAL INVESTIGATION, 169 LIMU ELE'ELE STREET AND PLACE, WAILUKU, HAWAII, CONTRACT NO. 65802, DATED JUNE 28, 2019. CTOR SHALL REVIEW GEOTECHNICAL REPORT FOR GROUND PREPARATION UENT RECOMMENDATIONS BEFORE PROCEEDING WITH WORK.
- JRFACE SOIL CONDITION AT SITE CONSISTS MAJORITY OF TAN SAND WITH FINES (POORLY GRADED SAND).
- IING WALL ALLOWABLE BEARING PRESSURE = 3,500 PSF WITH 1/3INCREASE FOR SHORT DURATION LOADS SUCH AS WIND OR SEISMIC
- \_ DESIGN FOR 893 KUHIO PLACE ICIENT OF FRICTION = 0.40 EARTH PRESSURE = 40 PCF /E EARTH PRESSURE = 300 PCF
- AS TO RECEIVE FILL AND IN STRUCTURAL AREAS, ALL VEGETATION, ISH, ROOTS, STUMPS, RUBBISH, DEBRIS, SOFT SOIL AND OTHER MATERIAL SHALL BE REMOVED AND DISPOSED OF OFF-SITE.
- D SURFACE SHALL THEN BE SCARIFIED TO A DEPTH OF 6 INCHES, NDITIONED TO BETWEEN ZERO TO 3 PERCENT OF THE SOILS OPTIMUM NTENT (ASTM D1557) AND THEN COMPACTED TO AT LEAST 90 THE SOILS MAXIMUM DRY DENSITY (ASTM D1557). IF SOFT OR LOOSE ENCOUNTERED, THE LOOSE/SOFT AREAS SHALL BE REMOVED TO FIRM ID THE RESULTING DEPRESSION SHALL BE FILLED WITH PROPERLY FILL.
- 12-INCH THICK LAYER OF FREE-DRAINING GRAVEL SHALL BE PLACED OF THE RETAINING WALL. THE GRAVEL SHALL EXTEND FROM THE WALL, AROUND SUBDRAINS AND/OR WEEPHOLES, AND UP TO WITHIN OF FINISH GRADE.
- SAND MAY BE REUSED IN COMPACTED FILLS AND BACKFILLS, EXCEPT NULAR FILL BELOW FOUNDATIONS. ALL ROCK FRAGMENTS LARGER THAN MAXIMUM DIMENSION SHALL BE REMOVED FROM THE SOIL PRIOR TO IMPORTED STRUCTURAL FILL SHALL BE WELL-GRADED, SIVE GRANULAR MATERIAL. SEE GEOTECHNICAL REPORT FOR VS.
- SAND AND IMPORTED GRANULAR STRUCTURAL FILL USED FOR THE RETAINING WALLS FOR THE DRIVEWAY SHALL BE PLACED IN LIFTS RESTRICTED TO 8 INCHES IN LOOSE THICKNESS, AND COMPACTED JM 90 PERCENT COMPACTION AS DETERMINED BY ASTM D 1557. CTION OF BACKFILL NEAR THE BACK OF THE RETAINING WALL SHOULD FOR OTHER LOCATIONS. THE IMPORTED GRANULAR STRUCTURAL FILL PLACED IN 8-INCH LOOSE LIFTS AND COMPACTED TO AT LEAST 95 IMPACTION AS DETERMINED BY ASTM D 1557.
- LACING REINFORCING STEEL OR POURING CONCRETE, THE BOTTOM OF EXCAVATIONS SHALL BE CLEANED OF LOOSE MATERIAL AND SOILS BEEN DISTURBED BY THE EXCAVATION PROCESS.
- NORK SHALL BE IN ACCORDANCE WITH ACI 301, UON.
- ETE UNLESS OTHERWISE NOTED SHALL BE NORMAL WEIGHT HARD ROCK /CU. FT.) PORTLAND CEMENT SHALL CONFORM TO ASTM C-150 TYPE | CRETE MIXES SHALL BE DESIGNED BY A QUALIFIED TESTING LABORATORY BE SUBMITTED TO THE ARCHITECT FOR REVIEW.
- OF STRUCTURAL CONCRETE 28-DAY STRENGTH AND TYPES:
- 3,000 PSI
  - 4,000 PSI
- ERAGE OF CONCRETE OVER OUTER REINFORCING BARS SHALL BE AS J.O.N.):
- RETE DIRECTLY
- 3" CLEAR TO REINFORCING ST EARTH
- RETE AGAINST ORK
- 2" UON

- ALL REINFORCING BARS AND OTHER CONCRETE INSERTS SHALL BE WELL 5. IN POSITION PRIOR TO PLACING CONCRETE.
- CONTRACTOR SHALL PROVIDE THE ENGINEER A SCHEDULE SPECIFYING CONCRETE POURS IN UPCOMING THREE WEEKS.
- 7. CONCRETE ADMIXTURES CONTAINING CHLORIDE OR CHLORIDE SALTS USED.
- 8. ALL ROUGHENED SURFACES IN CONCRETE SHALL BE MADE WITH AMPLITUDE OF 1/4".

## CONCRETE MASONRY (CMU)

- 1. CONCRETE BLOCK SHALL BE HOLLOW LOAD-BEARING CONCRETE CONFORMING TO ASTM C90, NORMAL WEIGHT, (f'm = 1,900 PSI.)  $\sim$
- 2. ALL WALLS SHALL BE CONSTRUCTED IN RUNNING BOND WITH TYP UNLESS OTHERWISE NOTED. MORTAR SHALL ATTAIN COMPRESSIVE 2,500 PSI AT 28 DAYS.
- 3. GROUT SHALL FLOW INTO ALL JOINTS OF THE MASONRY WITHOUT COMPRESSIVE STRENGTH AT 28 DAYS = 3,000 PSI.
- REINFORCING BARS SEE NOTES UNDER "REINFORCING STEEL" F 4.
- PROVIDE A MINIMUM OF 1/2" GROUT BETWEEN MAIN REINFORCING 5. UNITS.
- 6. GROUT SOLID ALL CELLS.
- 7. DO NOT STACK CMU BLOCK ABOVE 5'-4" BEFORE GROUTING UNLESS CLEANOUT IS PROVIDED AT BOTTOM OF CELL WITH VERTICAL BARS.

### **REINFORCING STEEL**

- REINFORCING BARS SHALL CONFORM TO ASTM A-615 GRADE 60 REQUIREMENTS.
- 2. ALL REINFORCING BAR BENDS SHALL BE MADE COLD.
- 3. ALL REINFORCING STEEL SHALL BE DETAILED AND PLACED IN CONFORMANCE WITH THE "ACI DETAILING MANUAL - 2004" (SP-66) AS MODIFIED BY THE PROJECT DRAWINGS AND SPECIFICATIONS.
- CONTRACTOR SHALL SUBMIT REINFORCING BAR LAYOUTS AND DETAILS FOR ENGINEER'S REVIEW PRIOR TO FABRICATION. FABRICATE FROM REVIEWED DRAWINGS ONLY.
- WELDING OF REINFORCING STEEL IS NOT PERMITTED. 5.
- 6. DO NOT CUT REINFORCING WHICH MAY CONFLICT WITH EMBEDDED POSTS. NOTIFY THE ENGINEER IN ADVANCE OF CONDITIONS NOT SHOWN ON THE DRAWINGS.
- 7. DOWELS AND OTHER EMBEDDED ITEMS ARE TO BE SECURELY TIED BEFORE CONCRETE IS POURED.

## CRM NOTES

- CEMENT RUBBLE MASONRY STONES AND MORTAR JOINTS SHALL B EXISTING WORK ON SITE.
- 2. CONTRACTOR SHALL BUILD A MOCK-UP WALL A MINIMUM OF 8'-0 INCLUDES TYPICAL JOINTS AND CORNER CONDITIONS FOR ENGINEER
- 3. STONES SHALL BE CLEAN, HARD, SOUND AND DURABLE.
- 4. MORTAR: ASTM C270, TYPE M USING THE PROPERTY METHOD TO 2,500 PSI STRENGTH, UNLESS INDICATED OTHERWISE.
- GROUT IF USED SHALL BE FLOWABLE AND HAVE 3,000 PSI STREN
- 6. THERE SHALL BE NO VOIDS IN THE WALL.



	<u>ABBREVIA</u>	TIONS	
SECURED	ARCH BOT	ARCHITECTURAL BOTTOM	
NCRETE	CJ CL CLR	CONTROL JOINT CLEAR	

	CL, CLR
	CONC
	CONT
IS SHALL NOT BE	DIA
	DWG, DWGS
	EA
A MINIMUM	EF
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PE M MORTAR	00
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	T&B
FOR REQUIREMENTS.	TOF, TF
	TOW, TW
G AND MASONRY	TYP
	UON
	(V), VERT
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	#4, #10
	$\pi^{-}, \pi^{+}$

ANOTHIEOTONAL
BOTTOM
CONTROL JOINT
CLEAR
CONCRETE
CONTINUOUS
DIAMETER
DRAWING(S)
EACH
EACH FACE
EACH WAY
FINISH
FOOTING
HORIZONTAL
INFORMATION
JOINT
MAXIMUM
MINIMUM
ON CENTER
REINFORCING
RETAIN/RETAINING
SIMILAR
SLOPE
STATION
TOP AND BOTTOM
TOP OF FOOTING
TOP OF WALL
TYPICAL
UNLESS OTHERWISE NOTED
VERTICAL
WITH
REINFORCING BAR SIZE

	THE ENGINEER IN ADVANCE OF CONDITIONS NOT SHOWN ON THE DRAWINGS.		
7.	DOWELS AND OTHER EMBEDDED ITEMS ARE TO BE SECURELY TIED IN PLACE BEFORE CONCRETE IS POURED.		
$\sim$		$\widehat{1}$	
	<u>A NOTES</u>	<u>' \</u>	
1.	CEMENT RUBBLE MASONRY STONES AND MORTAR JOINTS SHALL BE SIMILAR TO EXISTING WORK ON SITE.		
2.	CONTRACTOR SHALL BUILD A MOCK-UP WALL A MINIMUM OF 8'-0" × 8'-0" THAT INCLUDES TYPICAL JOINTS AND CORNER CONDITIONS FOR ENGINEER'S REVIEW.	GUT	
	5	O. GUTIERRE	12/06/19 ADDED CRM NOTES, CMU NORMAL WT CHANGED SE
3.	STONES SHALL BE CLEAN, HARD, SOUND AND DURABLE.		REVISION DATE BRIEF MADE BY APPROVED
4.	MORTAR: ASTM C270, TYPE M USING THE PROPERTY METHOD TO ACHIEVE MINIMUM 2,500 PSI STRENGTH, UNLESS INDICATED OTHERWISE.	PROFESSIONAL ENGINEER NO. 5479-S	
5.	GROUT IF USED SHALL BE FLOWABLE AND HAVE 3,000 PSI STRENGTH AT 28 DAYS.	MAII, U.S.A	DEPARTMENT OF HAWAIIAN HOME LANDS
6.	THERE SHALL BE NO VOIDS IN THE WALL.	THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION	VARIOUS LOTS IMPROVEMENTS
$\sim$		signature diversion date of the license	KULA, MAUI, HAWAII
			STRUCTURAL GENERAL NOTES
			designed by DN DRAWN BY SE CHECKED BY GG
	0 1 2	CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION AS DEFINED IN SECTION 16-115-2,	APPROVED SUBMITTED BY
	LINE IS 2 INCHES AT FULL SIZE	MY OBSERVATION AS DEFINED IN SECTION 16-115-2, HAWAII ADMINISTRATIVE RULES, DEPARTMENT OF COMMERCE AND CONSUMER AFFAIRS, STATE OF HAWAII, PROFESSIONAL ENGINEERS, ARCHITECTS, SURRYCPORS AND LANDSCAPE ARCHITECTS.	
	(If NOT 2-inches : Scale Accordingly)	SURVETURS AND LANDSLAPE ARCHITECTS.	DATE FIRM MEMBER DATE
		5-101 SHEE	T 13 OF 19

ADDENDUM NO. 2 (SHEET 13 OF 19)





<u>NOT</u>	ES:					
1.	ALL	BENDS	SHALL	ΒE	MADE	COLD.



SLAB & WALL SPLICE LENGTHS (inches) grade 60						
f'c	3000	) PSI	4000	) PSI		
BAR SIZE	OTHER BAR	TOP BAR	OTHER BAR	TOP BAR		
#3	13	17	12	16		
#4	21	28	18	24		
#5	31	41	27	35		
#6	43	56	37	48		
#7	69	90	60	78		

## NOTES:

- 1. TOP BARS ARE HORIZONTAL REINFORCEMENT SO PLACED THAT MORE THAN 12" OF FRESH CONCRETE IS CAST BELOW THE SPLICE.
- 2. SPLICES BASED ON 3/4" MINIMUM COVER.

















	Ν	0	T	ES:
--	---	---	---	-----

1.	REFER	TO	GENERAL	NOTES	ON	SHEET	S-101	FOR
	ADDITIC	ONAL	INFORMA	TION.				

- 2. REFER TO CIVIL DWGS FOR ALL GRADING INFORMATION AND DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS.
- 3. FOR RETAINING WALL PROFILE, SEE SHEET S-202.

= INDICATES 8" CMU WALL AND 12" CMU WALL

building

	O. GUTIERRES	1	12/06/19	RETAINING WALL ST	EPS ADDED		SE	
		REVISION	DATE		BRIEF		MADE BY	APPROVED
	PROFESSIONAL ENGINEER NO. 5479-S MANAII, U.S.P							
	THIS WORK WAS PREPARED BY ME		DE	EPARTMENT OF	- HAWAIIAN	N HOME L	ANDS	
	OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION		VAF	RIOUS LO	TS IMP	ROVEN	IENTS	
	signature 1 4/30/20 signature expiration date of the license			KULA	, MAUI, HA	AWAII		
		P		IKALO (K		PI) R	FTAINII	NG
				VALL FOL				
1 2			BY DN	DRAWN BY	02	CHECKED	d by GG	
	CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION AS DEFINED IN SECTION 16-115-2, HAWAII ADMINISTRATIVE RULES, DEPARTMENT OF COMMERCE AND CONSUMER AFFARS, STATE OF	APPRO	VED		SUBN	MITTED BY		
2 INCHES AT FULL SIZE 2-inches : Scale Accordingly)	HAWAII, PROFESSIONAL ENGINEERS, ARCHITECTS, SURVEYORS AND LANDSCAPE ARCHITECTS.			DAT	E FIRM N	MEMBER		DATE
S	S-201 SHEET 15 OF 19							





ADDENDUM NO.2 (SHEET 16 OF 19)



JOB NO. 17-518

ADDENDUM NO.2 (SHEET 17 OF 19)



JOB NO. 17-518

	$\sim$
) WALL	
(N) WALL CONNECTED TO 1 TYP	
(E) WALL, MATCH WITH (E) $\sqrt{-302}$	
È WALL, MATCH WITH (E) S-302 HOMEOWNER CRM WALL HT,	
OR 2'-0" MIN HT	
NAKAN DAGANANGANANANANANANANANANANANANANANANAN	<u>a u</u>
E) CONC SIDEWALK,	
Ó NOT DAMAGE	



# NOTES:

|--|

0 4' 8' 16' 3	62 <b>'</b> 48'
1/16"=1'-0"	





ADDENDUM NO.2 (SHEET 18 OF 19)



JOB NO. 17-518



2 CONNECTION DETAIL SCALE: 1" = 1'-0"





(SHEET	19 OF	19)
	(SHEET	(SHEET 19 OF

	_							
	GUT/ERRES	1 REVISION	12/06/19 date	CRM WALL DIMENSI	ONS ADJUST brief	ED	SE made by	APPROVED
	PROFESSIONAL ENGINEER NO. 5479-S *							
			PARTMENT OF RIOUS LOT kula,		PROVEN			
			WAI	EHU KOU SECTION				
		DESIGNED	) by DN	DRAWN BY	SE	CHECKE	d by GG	
1   2     S 2 INCHES AT FULL SIZE	CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION AS DEFINED IN SECTION 16-115-2, HAWAII ADMINISTRATIVE RULES, DEPARTMENT OF COMMERCE AND CONSUMER AFFARS, STATE OF HAWAII, PROFESSIONAL ENGINEERS, ARCHITECTS, SURVEYORS AND LANDSCAPE ARCHITECTS.	APPRO	VED		SUB	MITTED BY		
2-inches : Scale Accordingly)	SURVETURS AND LANDSCAFE ARCHITECTS.			DATE	FIRM	MEMBER		DATE
S-	302 SHEE	⊺ 19	OF 19	)	FILE	POCKET	FOLDER	NO.

1								
2 3 4	Make	e the following amendment to said Section:						
4 5 6	(I)	Amend <b>201.05 – Payment</b> from line 177 to 179 to	o read as follows:					
0 7 8		"Pay Item	Pay Unit					
9 10 11 12	and I	ring and Grubbing, Including Handling Removal of Vegetation and Debris DHHL Lands; In Place Complete"	Lump Sum					
13 14		END OF SECTION 201						
$\begin{array}{c} 15\\ 16\\ 17\\ 18\\ 19\\ 20\\ 21\\ 22\\ 23\\ 24\\ 25\\ 26\\ 27\\ 28\\ 29\\ 30\\ 31\\ 32\\ 33\\ 34\\ 35\\ 36\\ 37\\ 38\\ 39\\ 40\\ 41\\ 42\\ 43\\ 44\\ 45\end{array}$		Various Lot Improvoments For Waiobu Kou	And Daukukalo					
		Various Lot Improvements For Waiehu Kou 201-1	And Paukukalo 12/09/19					

1		SECTION 203 – EXCAVATION AND EMBANKMENT
2 3	Make	the following amendment to said Section:
4 5 6	(I)	Amend <b>203.01</b> – <b>Description</b> from line 8 to 9 to read as follows:
7 8 9	mate	"Lot excavation includes excavating and compacting, or disposing of, all rials of whatever character encountered in the work."
10 11 12	(II)	Amend 203.02 – Materials line 41 to read as follows:
12 13 14 15		"(D) Lot Excavated Material: All material excavated from project site for lot construction.
16 17 18 19 20 21 22		<b>(E)</b> Lot Embankment Material: Suitable and accepted embankment material. Embankment material shall conform to size and quality indicated in the contract documents. When the contract documents do not indicate size or quality, embankment material shall be of quality suitable for intended purpose. Embankment material shall be free of roots and other organic matter, garbage, trash, junk, and other deleterious material."
23 24 25	(111)	Amend <b>203.03 – Construction</b> from line 42 to line 45 to read as follows:
26 27 28 29 30	Clear for lo docui	<b>03 Construction.</b> Clear and grub area in accordance with Section 201 – ing and Grubbing, before excavating. Excavate and construct embankment of to the alignment, grades, and typical sections shown in contract ments. Excavate so as not to disturb material outside limits of slopes or of grading.
<ul> <li>31</li> <li>32</li> <li>33</li> <li>34</li> <li>35</li> <li>36</li> <li>37</li> <li>28</li> </ul>	place inche a rel	When excavation is made below required grade, backfill and compact below required grade with suitable excavated material. When needed, and compact backfill material in uniform horizontal layers not exceeding 8 s in loose thickness before compaction. Compact each layer of backfill until ative compaction of 90 percent or more is achieved, when tested in rdance with Subsection 203.03(C)(2) – Relative Compaction Test.
38 39 40 41 42	excav	Use suitable lot excavated material as needed, from lot excavation to ruct lot embankments or for other purposes. Unsuitable and surplus vated material will become Contractor's property. Dispose of unsuitable and us lot excavated materials.
43 44 45		Remove debris and unwanted material from grading limit."
		Various Lot Improvements For Waiehu Kou And Paukukalo

46 47 (IV) Amend 203.03(C)(2)(a) – Maximum Dry Unit Weight from line 245 to line 255 to read as follows: 48 49 Maximum Dry Unit Weight. Test for maximum dry 50 "(a) 51 unit weight according to AASHTO T 180, and apply the 52 correction for fraction larger than 3/4 inch. Use Hawaii Test 53 Method HDOT TM 5 for sample preparation of sensitive soils 54 when so designated by the Engineer." 55 56 57 (V) Amend **203.04** – **Measurement** line 367 to read as follows: 58 59 "(D) Lot excavation and lot embankment per cubic yard." 60 61 62 (V) Amend **203.05** – **Payment** from line 376 to 377 to read as follows: 63 "Pay Item 64 Pay Unit 65 Cubic Yard Lot Excavation; In Place Complete 66 67 68 Cubic Yard" Lot Embankment; In place Complete 69 70 71 (VI) Amend **203.05 – Payment** from line 442 to 446 to read as follows: 72 73 "The Engineer will not pay for stockpiling selected material, placing 74 selected material in final position, or placing selected material in windrows along tops of roadway or lot slopes for erosion control work, separately and will 75 consider the cost as included in the unit prices for the various excavation contract 76 77 pav items. The cost is for work prescribed in this section and the contract documents." 78 79 80 (VII) 81 Amend **203.05 – Payment** by deleting the last paragraph, from line 455 to 82 457, in its entirety. 83 84 85 86 END OF SECTION 203 87 88 89 90 Various Lot Improvements For Waiehu Kou And Paukukalo 203-2 12/09/19

- 1 SECTION 209 – TEMPORARY WATER POLLUTION, DUST, AND EROSION 2 CONTROL
- 3 4 Make the following amendment to said Section:
  - Amend **209.03(A)(2)(e)**, by revising the second paragraph from line 158 to **(I)** 163 to read as follows:

9 "Effective October 1, 2008, follow guidelines in the "Construction Best 10 Management Practices Field Manual" dated January 2008, in developing, installing, and maintaining BMPs for all projects. Follow Honolulu's City and 11 County "Rules for Soil Erosion Standards and Guidelines" for all projects on 12 Oahu. Use respective Soil Erosion Guidelines for Maui, Kauai and Hawaii 13 14 projects."

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17 **(II)** Amend **209.04 – Measurement** by revising the paragraphs from line 334 18 to 340 to read as follows:

20 "**(**A) Installation, maintenance, monitoring, and removal of the dust screen and dust screen with silt fence will be paid for per linear foot. The 21 22 Engineer will measure the installation, maintenance, monitoring, and removal of 23 the dust screen and dust screen with silt fence per linear foot in accordance with 24 contract documents. 25

26 **(B)** Installation, maintenance, monitoring, and removal of the temporary sediment barrier will be paid for per linear foot. The Engineer will measure the 27 28 installation, maintenance, monitoring, and removal of the temporary sediment 29 barrier per linear foot in accordance with contract documents. 30

Installation, maintenance, monitoring, and removal of the sediment 31 (C) 32 filter sock will be paid for per linear foot. The Engineer will measure the installation, maintenance, monitoring, and removal of the sediment filter sock per 33 34 linear foot in accordance with contract documents.

35

36 (D) Installation, maintenance, monitoring, and removal of the 8-inch thick ingress/egress gravel access will be paid for per square yard. The 37 38 Engineer will measure the installation, maintenance, monitoring, and removal of 39 the 8-inch thick ingress/egress gravel access per square yard in accordance with 40 the contract documents."

41 42

43 (111) Amend **209.05 – Payment** by revising the paragraphs from line 349 to 361 to read as follows: 44 45

> Various Lot Improvements For Waiehu Kou And Paukukalo 209-1

46 47	" Pay Item	Pay Unit
48 49 50	Installation, Maintenance, Monitoring, and Removal of Silt Fence and Dust Screen with Silt Fence; In Place Complete	Linear Foot
51 52 53 54	Installation, Maintenance, Monitoring, and Removal of Dust Screen; In Place Complete	Linear Foot
55 56 57	Installation, Maintenance, Monitoring, and Removal Of Temporary Sediment Barrier; In Place Complete	Linear Foot
58 59 60	Installation, Maintenance, Monitoring, and Removal Of Sediment Filter Sock; In Place Complete	Linear Foot
61 62 63 64	Installation, Maintenance, Monitoring, and Removal of 8-inch Thick Ingress/Egress Gravel Access; In Place Complete"	Square Yard
65 66	END OF SECTION 209	
67		
68		
69 70		
70 71		
72		
73 74		
74 75		
76		

1	SECTION 304 – AGGREGATE	BASE COURSE
2 3	Make the following amendment to said Section:	
4 5	(I) Amend 304.04 – Measurement from line	54 to 55 to read as follows:
6 7 8 9 10	" <b>304.04 Measurement.</b> Aggregate base w The Engineer will measure aggregate base per s contract documents."	
11 12 13	(II) Amend 304.05 – Payment from line 57 to	66 to read as follows:
13 14 15 16 17	<b>"304.05 Payment.</b> The Engineer will pay for on a square yard basis. Payment will be full com prescribed in this section and the contract docum	pensation for the work
18 19	The Engineer will pay for the following pay proposal schedule:	item when included in the
20 21	"Pay Item	Pay Unit
22 23 24 25	6 Inch Asphalt Concrete Base; In Place Complete"	Square Yard
<ul> <li>26</li> <li>27</li> <li>28</li> <li>29</li> <li>30</li> <li>31</li> <li>32</li> <li>33</li> <li>34</li> <li>35</li> <li>36</li> <li>37</li> <li>38</li> <li>39</li> <li>40</li> <li>41</li> <li>42</li> <li>43</li> <li>44</li> </ul>	END OF SECTION	304
44	Various Lot Improvements For Waieh 304-1	u Kou And Paukukalo 12/09/19 Addendum 2

1	SECTION 305 – AGGREGATE SUBBASE C	OURSE
23	Make the following amendment to said Section:	
4 5	(I) Amend 305.04 – Measurement from line 54 to 55 to	read as follows:
6 7 8 9 10 11	" <b>305.04 Measurement.</b> Aggregate subbase will be payard. The Engineer will measure aggregate subbase per so accordance with contract documents."	· ·
11 12 13	(II) Amend 305.05 – Payment from line 57 to 66 to read	as follows:
13 14 15 16 17	<b>"304.05 Payment.</b> The Engineer will pay for the accel subbase on a square yard basis. Payment will be full comp prescribed in this section and the contract documents.	
18 19	The Engineer will pay for the following pay item when proposal schedule:	n included in the
20 21 22	"Pay Item	Pay Unit
23 24 25	18 Inch Select Borrow; In Place Complete"	Square Yard
<ul> <li>26</li> <li>27</li> <li>28</li> <li>29</li> <li>30</li> <li>31</li> <li>32</li> <li>33</li> <li>34</li> <li>35</li> <li>36</li> <li>37</li> <li>38</li> <li>39</li> <li>40</li> <li>41</li> <li>42</li> <li>43</li> <li>44</li> <li>45</li> </ul>	END OF SECTION 305	
	Various Lot Improvements For Waiehu Kou An	d Paukukalo

1	SECTION 401 – HOT MIX ASPHALT (HMA) PAVEME	NT
2 3	Make the following amendment to said Section:	
4	Make the following amendment to said Section.	
5	(I) Amend 401.05 – Payment from line 612 to 619 to read as for	ollows:
6		
7	The Engineer will pay for the following pay item when includ	ed in the
8 9	proposal schedule:	
10	"Pay Item	Pay Unit
11		
12	2 Inch HMA Pavement, State Mix No. V;	Square Yard
13	In Place Complete"	
14 15		
15 16	END OF SECTION 401	
17		
18		
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21 22		
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2) 30		
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1	SECTION 503 – CONCRETE STRUCTURES	
2 3 4	Make the following amendment to said Section:	
4 5 6	(I) Amend 503.04 – Measurement from line 1201 to 1202 to read	d as follows:
7 8 9 10 11 12	<b>"503.4 Measurement.</b> Concrete will be paid per linear foot or sum basis. The Engineer will measure concrete per linear foot in acc with contract documents. Measurement for payment will not apply for basis."	ordance.
12 13 14	(II) Amend 503.05 – Payment from line 1206 to 1208 to read as f	ollows:
14 15 16 17 18 19 20 21	<b>"503.05 Payment.</b> The Engineer will pay for the accepted cond contract lump sum basis or pay items listed below at the contract unit linear foot, as shown in the proposal schedule. Payment will be full compensation for the work prescribed in this section and the contract documents."	t price per
21 22 23	(III) Amend 503.05 – Payment from line 1216 to 1223 to read as	follows:
23 24 25 26	"New Concrete Jacket for ¾" Copper Water Lateral; In Place Complete	Linear Foot
27 28	Concrete Footings and Walls	Lump Sum
29 30 31 32	The Engineer will not pay for reinforcing steel separately and the cost for reinforcing steel as included in the contract prices for contract pay items."	
33 34	END OF SECTION 503	

1 2			SECTION 509 – Masonry Structures							
3	Make the following a part of the Standard Specifications:									
4 5 6	" <b>509.01</b> structure		iption. This section describes construction of masonr	У						
7 8	509.02	Materia	als							
9 10 11	Masonry	Units	704.02							
11 12 13	509.03	Submi	ittals							
14 15 16 17		(A.)	<b>Product Data</b> : Submit manufacturer's product data for each type of masonry unit accessory, and other manufactured products, including certifications that each type complies with specified requirements.							
18 19 20 21 22 23 24		(B.)	<b>Reinforcing Steel Certificates</b> : Certified copies of mill reports attesting that the reinforcing steel furnished contains no less than 25 percent recycled scrap steel and meets the requirements specified herein, prior to the installation of reinforcing steel.							
24 25 26	509.04	Protec	ction of New Work							
27 28 29 30		(A.)	<b>Covers</b> : Cover tops of construction with heavy waterproof sheeting. Cover tops of partially completed structures when work is not in progress. Extend covers a minimum o 24" down each side and secure in place.							
31 32 33 34 35		(B.)	<b>Staining</b> : prevent grout, mortar, soil, and other staining materials from the faces of units to be left exposed or painted. Remove all stains immediately from such surfaces.							
36 37 38	509.05	Constr	ruction Tolerances							
39 40 41 42		(A.)	<b>Variation from Plumb</b> : For vertical lines and surfaces of walls and arrises do not exceed 1/8" in 5'-0". For vertical alignment of shear joints do not exceed plus or minus 1/8" in 5'.							
43 44 45		(B.)	<b>Variation from Level</b> : Bed joints and lines shall not exceed 1/8" in 20' maximum, nor 1/2" in 40' or more.							
	Vai	rious Lo	ot Improvements For Waiehu Kou And Paukukalo	_						
			509-1 12/09/19 Addendum 2							

46			
47		(C.)	Variation in Cross Sectional Dimensions: For thickness
48			of walls, from dimensions shown, do not exceed minus 1/2"
49			nor plus 1/2".
50			•
51		(D.)	Variation in Mortar Joint Thickness: Do not exceed bed
52		( )	joint thickness indicated by more than plus or minus 1/8",
53			with a maximum thickness limited to 1/2". Do not exceed
54			head joint thickness indicated by more than plus or minus
55			1/8".
56			
57	509.06	Genera	Il Installation
58			
59		(A.)	<b>Construction</b> : Comply with specified construction
60		<b>、</b>	tolerances, with courses accurately spaced and
61			coordinated with either work. Maintain core (cell) continuity
62			to ensure proper clearances for reinforcement.
63			
64		(B.)	Pattern Bond: Lay in "running bond". Pattern, unless
65			otherwise indicated. Bond and interlock each course of
66			each wythe at corners.
67			
68		(C.)	Wetting Limitation: Do not wet units. Keep units dry.
69			Protect from rain and other sources of moisture.
70			
71		(D.)	Temporary Support Work: Provide temporary support
72			work, including forms and shores and bracing, as
73			necessary to support masonry elements requiring support.
74			Do not remove temporary supports until the masonry work
75			can support its own weight and other reasonable
76			temporary loads which may be placed on it during the
77			Contract Period.
78		<i>.</i> — .	<b>.</b>
79		(E.)	Stopping and Resuming Work: Rack back 1/2-unit
80			length in each course; do not tooth. Clean exposed
81			surfaces of set masonry, wet units lightly (if required) and
82			remove loose masonry units and mortar prior to laying
83			fresh masonry.
84			Full mantes Dedalizers, Descride full searches hadding to all
85		(F.)	<b>Full mortar Bedding</b> : Provide full mortar bedding to all
86			horizontal and vertical (end flange) face shells and to all
87			webs for following types of installation. Lay walls with 3/8"
88 89			joints, unless otherwise indicated with joints slightly
89 90			concave using a jointer.
70			
	Vai	rious Lot	t Improvements For Waiehu Kou And Paukukalo

91	509.07	Reinforcement Bars					
92 02		( • )	D.,		ity Detwoon Vertical Dare, Where vertical here are		
93 94		(A.)			<b>ity Between Vertical Bars</b> : Where vertical bars are proximity, provide a clear distance between bars of		
9 <del>4</del> 95					than nominal bar diameter or 1" (whichever is		
96					; provide a clear distance between vertical bars		
97			-		d, but not less than 1-1/2 times the nominal bar		
98					er or 1-1/2", whichever is greater.		
99			GIC	intere			
100		(B.)	Sp	licin	g: Splice reinforcement bars where shown; do not		
101		( )			t other points unless acceptable to the Engineer.		
102					lapped splices of laps not less than indicated or		
103			rec	quired	by governing code. In splicing vertical bars or		
104			att	achin	g to dowels, lap ends, place in contact and wire tie.		
105							
106		(C.)			ent: Place Vertical reinforcement before grouting;		
107					or after laying masonry units, as required by job		
108					ns. Place horizontal reinforcement as the masonry		
109					e laid. Tie vertical reinforcement to dowels at base of		
110					y where shown and thread CMU over or around		
111					ement. Support vertical reinforcement at lesser of		
112					s not exceeding 192 bar diameters but not more than		
113 114			10	•			
114	509.08	Gro	uting	I			
115	505.00	010	uung				
117		(A.)	Gr	outir	ng Technique:		
118		(,)	•.	•••••	.g		
119			(1)	L٥	w-Lift Grouting:		
120			.,				
121				(a)	<b>Pump Size</b> : Not less than 2" in any dimension and		
122					with a minimum clear area of 8 sq. in.		
123							
124				(b)	Reinforcement Installation: Place vertical		
125					reinforcements prior to laying of CMU. Extend		
126					above elevation of maximum pour height as		
127					required for splicing. Support in position at vertical		
128					intervals not exceeding 192 bar diameters but not		
129					more than 10 ft.		
130				(a)	Deve Height Devet ever al CL 47 haight as 'CL -		
131				(c)	<b>Pour Height</b> : Do not exceed 5'-4" height, or if bond		
132					beam occurs below 5-4" height stop pour at course		
133 134					below bond beam.		
1.34							

135		(d)	Grouting: Pour grout using chute or container with
136			spout. Rod or vibrate grout during placing. Place
137			grout continuously; do not interrupt pouring of grout
138			for more than one hour. Terminate grout pours
139			1-1/2" below top course of pour.
140			
141	(2)	Pre	eparation of Grout Spaces:
142			
143		(a)	<b>Cleaning</b> : Prior to grouting, inspect and clean grout
144			spaces. Remove dust, dirt, mortar droppings, loose
145			pieces of masonry and other foreign materials from
146			grout spaces. Clean reinforcement and adjust to
147			proper position. Clean top surface of structural
148			members supporting masonry to ensure bond. After
149			final cleaning and inspection, close cleanout holes
150			and brace closures to resist grout pressures.
151			
152		(b)	Masonry Strength: Do not place grout until entire
153			height of masonry to be grouted has attained
154			sufficient strength to resist displacement of masonry
155			units and breaking of mortar bond. Install shores
156			and bracing, if required, before starting grouting
157			operations.
158			
159	(3)		outing: Place grout by pumping into grout spaces
160			ess alternate methods are acceptable to the
161			gineer. Limit grout pours to sections which can be
162			npleted in one working day with not more than one
163			ir interruption of pouring operation. Place grout in
164			which do not exceed 5'-0". Allow not less than 30
165			nutes, nor more than one hour between lifts of a given
166		•	Ir. Rod or vibrate each grout lift during pouring
167		ope	eration.
168		_	
169	(4)		urs per Section: When more than one pour is
170			uired to complete a given section of masonry, extend
171			forcement beyond masonry as required for splicing.
172			ur grout to within 1-1/2" of top course of first pour.
173			er grouted masonry is cured, lay masonry units and
174			ce reinforcement for second pour section before
175		gro	uting. Repeat sequence if more pours is required.
176			
177			
178			
179			
	Various Lot I	mpro	ovements For Waiehu Kou And Paukukalo

180	509.09	Repair,	Pointing, and Cleaning	
181				
182	(A.	.) Defe	ective Work: Remove and replace masonry u	units which are
183		loos	e, chipped, broken, stained or otherwise dama	aged, or if
184			do not match adjoining units as intended. Pr	
185		units	s to match adjoining units and install in fresh n	nortar or grout,
186			ted to eliminate evidence of replacement.	<b>C</b>
187		•	·	
188	(B.	.) Poir	nting: During the tooling of joints, enlarge any	voids or
189	•	-	s, and completely fill with mortar. Point-up all	
190			iding corners, openings and adjacent work to	
191			, uniform appearance, prepared for application	•
192				
193	(C.	.) Clea	aning: Clean exposed CMU masonry by appr	opriate
194	· ·		nods and as soon a required to prevent perma	•
195			asonry units. Dry brush at end of each day's	
196			n after final pointing. Comply with requiremen	
197			8-2A. Do not use acid cleaners that can dam	
198			5. Do not use acid cleaners without approval f	
199			after review of a test panel on masonry unit at	-
200			elected by Engineer. Remove all products of	
201			esses that are deleterious to work or any finis	•
202		•	e applied.	
203				
204	509.10	Special	Inspection	
205		-		
206	All spe	ecial insp	pections shall be done in accordance with Inte	rnational
207			(IBC) 2012 Special Inspection provisions Sec	
208		•	tion shall be performed by the Owner. The c	
209	•	•	or testing services.	
210			5	
211	All aro	out testin	g shall be tested by an independent testing la	boratorv
212	-		he Engineer and paid for by the Contractor. C	•
213			r, Special Inspector and testing agency at leas	
214		•	ork to be performed.	
215				
216	Masor	nrv Speci	ial Inspection requirements (Level 1) shall be	per IBC 2012
217		• •	ed as follows:	p=: := <b>c</b> = <b>c</b> :=
218				
219		(1)	Periodic special inspection for all reinforcing	placement
220		(-)	Special inspector shall verify that reinforcing	•
220			spacing conform to structural details and pre-	
222			shop drawings.	
223			enep diamingo.	
223		(2)	Continuous special inspection for grout place	ement
	Vari	ious Lot	Improvements For Waiehu Kou And Pauk	
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225 226 227 228 229	Special Inspector personnel shall be in addition to the Contractor control inspections and inspectors as required by the Contractor Control Program. Special inspection shall be as follows:	
230 231 232 233 234	(1) Continuous Special Inspection: Continuous special inspection is the full time observation of the work by the Inspector present in the work area whenever work is b performed. Perform continuous special inspection whe specified for items as shown on the drawings.	e Special eing
235 236 237 238 239 240 241 242	(2) Periodic Special Inspection: Periodic special inspection intermittent observation of the work by a Special Inspection present in the work area while work is being performed intermittent observation periods shall be: at times of si work; recurrent over the complete work period; and tot 25 percent of the total work time. Perform periodic special inspection where specified for items as shown on the observation.	ector d. The gnificant al at least ecial
243 244 245 246	<b>509.12 Measurement</b> . Masonry units will be paid on a lump s Measurement for payment will not apply.	sum basis.
247 248 249	<b>509.13 Payment.</b> The Engineer will pay for accepted concrete manual a contract lump sum basis. Payment will be full compensation for prescribed in this section and the contract documents.	
250 251 252 253	The Engineer will pay for each of the following pay items whe included in the proposal schedule:	n
253 254 255	Pay Item Pay	<sup>7</sup> Unit
256	Concrete Masonry Wall	_ump Sum
257 258 259 260 261	The Engineer will not pay for the accepted reinforcing steel so The Engineer shall consider the cost for the accepted reinforcing ste included in the contract price of the various contract items. The co the work prescribed in this section and the contract documents."	
262 263	END OF SECTION 509	

1	SECTION 638 – PORTLAND CEMENT CONCRETE CURI	B AND GUTTER					
2 3 4	Make the following amendment to said Section:						
4 5 6	(I) Amend 638.04 – Measurement from line 130 to 131 to read as follows:						
7 8 9 10	<b>"638.04 Measurement.</b> Curb will be paid per linear foot. measure curb per linear foot in accordance with contract docu	0					
10 11 12	(II) Amend 638.05 – Payment from line 133 to 148 to read	as follows:					
13 14 15 16	<b>"638.05 Payment.</b> The Engineer will pay for the accepted curb on a contract on a linear foot basis. Payment will be full compensation for work prescribed in this section and contract documents.						
17 18	The Engineer will pay for the following pay item when in proposal schedule:	ncluded in the					
19 20 21	"Pay Item	Pay Unit					
21 22 23	Cast-In-Place Concrete Curb, Type 2	Linear Foot"					
24 25	END OF SECTION 638						
26 27							
28 29							
30							
31 32							
33							
34 35							
36							
37 38							
39							
40							
41 42							
43							
44							

1	SECTION 641 – HYDRO-MULCH SEEDING				
2 3	Make the following amendment to said Section:				
4 5 6 7	(I) Amend <b>641.04 – Measurement</b> by revising the paragraph from line 173 to 174 to read as follows:				
8 9 10	<b>"641.04 Measurement.</b> Hydro-Mulch seeding will be paid yard. The Engineer will measure the hydro-much seeding per s				
11 12	(II) Amend 641.05 – Payment by revising the paragraphs from to read as follows:	om line 176 to 199			
13 14 15 16 17	<b>"641.05 Payment.</b> Engineer will pay for the accepted hydr on a square yard basis. Payment will be full compensation for w this section and contract documents.	5			
17 18 19 20	Engineer will pay for the following pay item when include schedule:	d in the proposal			
20 21 22	Pay Item	Pay Unit			
22 23 24 25 26	Hydro-mulch Seeding, Including 90 Day Maintenance; In Place Complete"	Square Yard			
27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45	END OF SECTION 641				
	Various Lot Improvements For Waiehu Kou And Pa	ukukalo			

1	SECTION 704 – MASONRY UNITS					
23	Make	Make the following amendments to said Section:				
4 5	(I)	(I) Amend <b>704.02 – Concrete Brick</b> to read as follows:				
6 7 8	"704.(	"704.02 Concrete Masonry Units				
8 9 10 11		(A.) References - American Society for Testing and Materials (ASTM):				
12 13 14			(1)	ASTM A 615 Standard Specification for Deformed and Plain Carbon-Steel Bars for Concrete Reinforcement.		
15 16 17 18			(2)	ASTM C 140 Standard Test Methods for Sampling and Testing Concrete Masonry Units and Related Units		
19 20 21 22			(3)	ASTM C 144 Standard Specification for Aggregate for Masonry Mortar		
22 23 24 25			(4)	ASTM C 150 Standard Specification for Portland Cement		
26 27			(5)	ASTM C 207 Standard Specification for Hydrated Lime for Masonry Purposes		
28 29 30			(6)	ASTM C 270 Standard Specification for Mortar for Unit Masonry		
31 32 33			(7)	ASTM C 404 Standard Specification for Aggregates for Masonry Grout		
34 35 36			(8)	ASTM C 476 Standard Specification for Grout for Masonry		
<ul> <li>37</li> <li>38</li> <li>39</li> <li>40</li> </ul>			(9)	ASTM C 90 Standard Specification for Loadbearing Concrete Masonry Units		
40 41 42 43			(10)	ASTM C 780 Standard Test Method for Preconstruction and Construction Evaluation of Mortars for Plain and Reinforced Unit Masonry		
44 45 46			(11)	ASTM E 447 Test Methods for Compressive Strength of Laboratory Constructed Masonry Prisms.		
		Various L	ot Imp.	rovements For Waiehu Kou And Paukukalo 704-1 12/09/19		

47			
48	(A.)	Cor	ncrete Masonry Units
49	()		
50		(1)	Hollow Load Bearing Units: ASTM C 90, as follows.
51		. ,	
52		(2)	<b>Size</b> : Nominal 8" x 8" x 16" (7-5/8" x 7-5/8" x 15-5/8"
53			Actual), unless otherwise indicated.
54			
55		(3)	Grade: N.
56			
57		(4)	Type: II.
58			
59		(5)	Weight Classification: Normal Weight.
60 61		(6)	Expand Ease: Standard gray and amouth
62		(6)	<b>Exposed Face</b> : Standard, gray and smooth.
63		(7)	Moisture Control: Cure units by atmospheric drying for
64		(')	not less than 30 days before installation to comply with
65			ASTM C 90, Type II.
66			
67	(B.)	Mor	tar and Grout Materials
68	. ,		
69		(1)	Mortar: Portland Cement Lime, with proportions
70			complying with ASTM C 270, Table 1. Type M; For units
71			in contact with grade and where indicated.
72			
73		(2)	<b>Grout</b> : ASTM C 476, fine or coarse as required herein.
74 75		(2)	Reutland Comparts ACTM C 450 Turns 4 or Turns II
75 76		(3)	Portland Cement: ASTM C 150, Type 1 or Type II.
70 77		(4)	Hydrated Lime: ASTM C 207, Type S.
78		(4)	Tyurated Line. ASTM C 207, Type S.
79		(5)	Aggregate for Mortar: ASTM C 144, except for joints less
80		(•)	than 1/4" use aggregate graded with 100% passing the No.
81			16 sieve.
82			
83		(6)	Aggregate for Grout: ASTM C 404.
84			
85		(7)	Water: Clean and potable with no deleterious substances
86			to mix.
87			
88			
89			
90 01			
91 92			
92			
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93	(C.)	Reinforcing Steel		
94				
95		(1)	<b>Reinforcing Bars</b> : ASTM A 615, deformed, of grades and	
96			sizes as indicated on Drawings.	
97				
98				
99			END OF SECTION 704	

1	SECTION 712 – MISCELLANEOUS					
2 3						
	Make the following subsections part of Section 712 - MISC	ELLANEOUS:				
4						
5	<b>"712.28 Measurement.</b> Engineer will measure coppe	r water lateral in				
6	accordance to contract documents.					
7						
8	712.29 Payment. The Engineer will pay for the acce					
9	below at the contract price per linear foot, as shown in the	•				
10	Payment will be full compensation for the work prescribed in this section and the					
11	contract documents.					
12						
13	The Engineer will pay for each of the following pay items when included in					
14	the proposal schedule:					
15						
16	Pay Item	Pay Unit				
17						
18	New <sup>3</sup> / <sub>4</sub> " Copper Water Lateral, Including Linear F					
19	Pipe Bedding and All Pertinent Work					
20	For Water Lateral Installation; In Place Complete"					
21						
22						
23						
24	END OF SECTION 712					