State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
ENGINEERING DIVISION
1151 Punchbowl Street, Room 221
Honolulu, Hawaii 96813

ADDENDUM NO. 1

TO

Job No E00BH30A
HAWAII DISTRICT LAND OFFICE
RENOVATE SINGLE STORY OFFICE BUILDING
HILO, HAWAII

Jan 6, 2023

The items listed hereinafter are hereby made a part of the contract for the above project and shall govern the work, taking precedence over previously issued plans and specifications governing the items mentioned.

SPECIFICATIONS

1. Notice to Bidders – **DELETE** in its entirely and **REPLACE** with the attached Notice to Bidders.
    a. Removed Hawaii Products Preference from Notice to Bidders.

2. Proposal - **DELETE** in its entirely and **REPLACE** with the attached Proposal
    a. Removed Hawaii Products Preference from Proposal.

3. Section 08710 – Door Hardware - **DELETE** in its entirely and **REPLACE** with the attached revised Section 08710.
    a. Door hardware was revised for doors 1, 2, and 3.

PLANS

1. Revised Sheet T-003. See attached revised Sheet T-003.
    a. Included Abbreviation for FRP – Fiberglass Reinforced Plastic

2. Revised Sheet A-201. See attached revised Sheet A-201.
    a. Revised FRP door location to align with the exterior of the CMU wall.

3. Revised Sheet A-301. See attached revised Sheet A-301.
    a. Revised Keynote #13.

4. Revised Sheet A-501. See attached revised Sheet A-501.
    a. Revised FRP door elevation.
    b. Revised Keynote #17.

5. Revised Sheet A-503. See attached revised Sheet A-503.
    a. Revised FRP door elevation.
    b. Revised Keynote #4.

6. Revised Sheet A-601. See attached revised Sheet A-601.
    a. Updated Door Schedule to include FRP door information and revised Door Hardware for doors 1, 2, and 3.
    b. Revised Door types.
    c. Updated Door Note Abbreviations.

7. Revised Sheet A-701. See attached revised Sheet A-701.
    a. Revised Details to include FRP Head, Jamb, and Threshold details.

GENERAL INFORMATION

The meeting agenda and sign-in sheet for the pre bid conference held on December 14, 2022 at 10 a.m. and the sign-in sheet for the site visit held on December 12, 2022 at 9 a.m. are available for download from the HIePRO website as a pdf file.

1. Question**:** Please clarify - Hawaii Products Preference and/or Use of Hawaii Products - in Bid Proposal Effective June 27, 2022, the Hawaii Products Preference is no longer applicable for public works construction projects. Senate Bill 2384, SD2, HD2, CD1 was signed into law as ACT 174 on June 27, 2022 by Governor David Y. Ige.

    Response: Hawaii Products Preference is no longer applicable. See revised Notice to Bidders and Proposal.

2. Question: Can you point out where the elevations are located within the plans. If not, can you tell us how high the system should be as well as how many shelves per carriage and what types of shelves need to be used.

   Response:
   Sheet A-503 shows the dashed elevation. See attached conceptual "Systemcenter drawing" for more details.
   Note: The "Systemcenter drawing" is being provided for basis of design for cost purposes only. Per Section 10676 Motorized Mobile Storage Shelving, acceptable manufacturers are: 1) Spacesaver Corporation, 2) Aurora Storage Products, Inc, 3) Kordex System, 4) Montel, 5) or approved equal.

3. Question: RFI for Section 10676
   1. What are the overall dimensions of the Carriages for the High Density Storage System?
   2. What are the dimensions of each of the 4Post Shelving on the High Density Storage System?
   3. What type of shelves are on the 4Post shelving? If slotted, do you need file dividers?
   4. What type of 4Post shelving units are on the carriages? If back to back, do you need back panels? If double faced, do you back stops on each shelf?
   5. Are the shelving units on each of the end of the system stationary? a. If so, do they need Back panels?
   6. Does the System require Card Holders?

   Response:
   See attached conceptual "Systemcenter drawing" for more details.
   Note: The "Systemcenter drawing" is being provided for basis of design for cost purposes only. Per Section 10676 Motorized Mobile Storage Shelving, acceptable manufacturers are: 1) Spacesaver Corporation, 2) Aurora Storage Products, Inc, 3) Kordex System, 4) Montel, 5) or approved equal.

4. Question: Can we do Kawneer products in lieu Arcadia?

   Response: No product substitution allowed before bid opening. Please see the DLNR Interim General Conditions Section 6.3 – Substitution of Materials and Equipment.

Engineering Division

Carty S. Chang

NOTICE TO BIDDERS
(Chapter 103D, HRS)

COMPETITIVE BIDS for Job No. **E00BH30A, Hawaii District Land Office, Renovate Single Story Office Building**, Hilo, Hawaii shall be submitted to the Department of Land and Natural Resources, Engineering Division on the specified date and time through the Hawaii State e-Procurement (HIePRO). HIePRO is accessible through the State Procurement Office website at www.spo.hawaii.gov.

The Department of Land and Natural Resources Interim General Condition, dated October 1994, as amended, and the General Conditions –AG008, latest revision shall be made part of the specifications.

The project is located at 180 Kalanikoa Street, Hilo, Hawaii.

The work shall generally consist of sitework and demolition, landscape, work off-site or in the Public Right-of-way, building structure, enclosure and interior construction, interior finishes, abatement work, built-in casework and adjustable shelving, plumbing, HVAC, electrical, data/communications, and lighting.

To be eligible to submit a bid, the Bidder must possess a valid State of Hawaii Contractor's license classification "B".

All interested parties are invited to attend a State conducted site visit. The site visit will be held at the project site on 12/12/2022 at 9am.

All interested parties are invited to attend a State conducted voluntary pre-bid conference call on 12/14/2022 at 10AM. Interested attendees shall send an email request for invitation to melissa.m.agbayani@hawaii.gov at least twenty-four (24) hours in advance of the meeting day. The email shall have "Job No. E00BH30A– Pre-Bid Conference" in the subject line and shall contain the following information: Name(s) attending, Company Name, Phone Number, and Email Address. Agenda and call-in information for Pre-Bid Conference shall be sent as part of response to requestor.

The estimated cost of construction is $2,670,000.00.

The award of the contract, if it be awarded, will be subject to the availability of funds.

Since the estimated cost of construction is $250,000 or more, the apprenticeship agreement preference pursuant to Hawaii Revised Statutes §103-55.6 (ACT 17, SLH 2009) shall apply.

Should there be any questions, please refer to the HIePRO solicitation.

P R O P O S A L

FOR

DEPARTMENT OF LAND AND NATURAL RESOURCES
ENGINEERING DIVISION
State of Hawaii

JOB NO. E00BH30A
HAWAII DISTRICT LAND OFFICE
RENOVATE SINGLE STORY OFFICE BUILDING
HILO, HAWAII

_____, 20__

Chief Engineer
Engineering Division
Department of Land and Natural Resources
State of Hawaii
Honolulu, Hawaii

Dear Sir:

The undersigned, having carefully examined the local conditions and all available records and information covering conditions which may affect the cost of the work to be performed, and having carefully examined the Plans and Specifications, and other contract documents, hereby proposes to furnish and pay for all materials, tools, equipment, labor and other incidental work necessary to complete sitework and demolition, landscape, work off-site or in the Public Right-of-way, building structure, enclosure and interior construction, interior finishes, abatement work, built-in casework and adjustable shelving, plumbing, HVAC, electrical, data/communications, and lighting, as required or called for in this Proposal, all according to the true intent and meaning of the Notice to Bidders, Information and Instructions to Bidders, Proposal, Detailed Specifications, Interim General Conditions, Plans, and any and all addenda for:

JOB NO. E00BH30A
HAWAII DISTRICT LAND OFFICE
RENOVATE SINGLE STORY OFFICE BUILDING
HILO, HAWAII

on file in the office of the Engineering Division for the TOTAL BASE BID (Items 1 to 25) of:

_____

_____Dollars ($_____)
and will fully complete all work under this contract within 300 consecutive calendar days from the date of written notice to proceed, including date of said order, said total sum being itemized on the following pages.

ALTERNATIVE BID ITEMS

The Bidder further proposes to incorporate in the work the Alternative Bid Items (Items 26-29) as described on the drawings and Specifications Section 01230 ADDITVE AND DEDUCTIVE BID ITEMS for the following amounts:

For the purposes of bid evaluation, the additives are listed in the order of priority in which they will be added to the Lump Sum Base Bid.

Additive Bid No. 1:

_____

_____Dollars ($_____)

Additive Bid No. 2:

_____

_____Dollars ($_____)

Additive Bid No. 3:

_____

_____Dollars ($_____)

The Bidder must completely fill in the dollar amounts for each Additive, where the work will be performed at no cost to the State, fill in "$0.00" as the dollar amount. If additive dollar amounts are left blank, the proposal will be rejected as being an "irregular proposal".

Deductive Bid No. 1:

_____

_____ Dollars ($_____)

The Bidder must completely fill in the dollar amounts for each Deductive, where the work will be performed at no cost to the State, fill in "$0.00" as the dollar amount. If deductive dollar amounts are left blank, the proposal will be rejected as being an "irregular proposal".

PROPOSAL

Item No.	Quantity	Unit	Description	Unit Price	Total
1.		LS	Temporary Erosion Control Measures, including installation, maintenance, and removal of BMPs including ingress/egress pads, filter socks, and all incidentals, in place complete.	LS	$
2		LS	Temporary facilities including, but not limited to temporary utilities, staging areas, protection of existing construction, safety signage, barricades, fencing, etc. and all other incidentals in place complete.	LS	$
3		LS	Select Demolition – Demolition of existing AC pavement, fencing, electrical equipment, receptacles, telecom cabling, conduits, wires, cables, conductors, including, but not limited to, all labor, trenching, hauling, disposal, materials, equipment and incidentals required to complete the work.	LS	$
4		LS	Hazardous materials removal including, but not limited to, testing, all labor, hauling, disposal, materials, equipment and incidentals as required to complete the work.	LS	$
5		LS	Termite Control & Wood Treatment, in place complete	LS	$
6		LS	Earthwork (Grading, Trenching & Backfilling, Erosion Control, etc.), in place complete	LS	$
7		LS	AC Paving & Parking Elements (Pavement Markings, Wheel Stops, & Site and Parking Signage, etc.), in place complete	LS	$
8		LS	CRM Wall, In place complete.	LS	$
9		LS	Concrete Work (Curbs, Sidewalks, Trenches, CLSM, Equipment Pads, etc.), in place complete	LS	$
10		LS	Site Utility (Water, Sewer, Storm Drainage, clean outs, drain inlets, etc.), in place complete	LS	$
11		LS	Site Electrical Infrastructure and other related work.	LS	$
12		LS	Landscaping (Plants, Soil Treatment, Irrigation, Gravel Bed, etc.), in place complete	LS	$

Item No.	Quantity	Unit	Description	Unit Price	Total
13		LS	Perimeter Enclosure & Security (Chainlink Fences, Chainlink Gates, CFM Wall, Electrical Chainlink Gate, Pipe Gates, Padlocks/Hardware, etc.), in place complete	LS	$
14		LS	Select Demolition – Demolish carport, entry canopy, corrugated roof, suspended ceiling panels, suspended ceiling grid, light fixtures, select doors, partitions, and flooring, including, but not limited to, all labor, saw cutting, trenching, hauling, disposal, materials, equipment and incidentals required to complete the work.	LS	$
15		LS	Renovation of Office Building, including but not limited to, roofing, gutters, downspouts, partitions, doors, finishes, structural work, in place complete.	LS	$
16		LS	Thermal & Moisture Protection (Moisture Vapor & Alkalinity Testing, Sealants, etc.), in place complete	LS	$
17		LS	Electrical Work – Light fixtures, cable and electrical outlets, and other related work.	LS	$
18		LS	Mechanical Work – VRF split AC system, ducting, registers, exhausts, fire dampers, testing air balance, and other related work.	LS	$
19		LS	Plumbing Work - fixtures, hose bibs, drains, cleanout, VTR, water heater, and other related work.	LS	$
20		LS	Traffic Control	LS	$
21		LS	Project Sign	LS	$
22	Allowance		HELCO New Meter Fee		$ 10,000.00
23	Allowance		Permit Fee		$ 6,205.00
24	Allowance		Field Office		$10,000.00
			Subtotal Base Bid (Items 1-24)		$
25		LS	Mobilization & Demobilization (not to exceed 10% of the Subtotal Base Bid Items 1-24)	LS	$
			Total Base Bid (Items 1-25)		$

Item No.	Quantity	Unit	Description	Unit Price	Total
ADDITIVE BID NO. 1					
26	4	EA	Bollards at Utility Pole	$	$
				Total Additive Bid No. 1 (Item 26)	$

ADDITIVE BID NO. 2					
27		LS	High Density Storage System	LS	$
				Total Additive Bid No. 2 (Item 27)	$

ADDITIVE BID NO. 3					
28		LS	Photovoltaic System*	LS	$
				Total Additive Bid No. 3 (Item 28)	$

DEDUCTIVE BID NO. 1					
29	1	LS	Cesspool Closure	LS	$
				Total Deductive Bid No. 1 (Item 29)	$

***** Submit photovoltaic system concept drawings and specifications submissions as required in Section 16700 Photovoltaic System within 5 calendar days after bid opening.

RECYCLED PRODUCTS PREFERENCE

This project allows a 10% price preference for recycled products in accordance with HRS 103D-1005. Please indicate your selection of recycled or non-recycled product by indicating its cost FOB jobsite unloaded in the schedule below, including applicable General Excise & Use Taxes.

DESCRIPTION	RECYCLED PRODUCT COST	NONRECYCLED PRODUCT COST
_____	$_____	$_____
_____	$_____	$_____
_____	$_____	$_____
_____	$_____	$_____

The bidder requesting a recycled product preference shall also complete and submit the form "CERTIFICATION OF RECYCLED CONTENT" as shown in the Interim General Conditions and provide all supporting information with this proposal. Additional information may be requested to qualify a product.

The following definitions are applicable to the CERTIFICATION OF RECYCLED CONTENT form:

"Post-consumer recovered material" means any product used by a consumer, including a business that purchases the material, that has served its intended end use, and that has been separated or diverted from the solid waste stream for the purpose of use, reuse, or recycling.

"Product" includes materials, manufactures, supplies, merchandise, goods, wares, and foodstuffs.

"Recovered material" means waste material and by-products that have been separated, diverted, or removed from the solid waste stream after a manufacturing process for the purpose of use, reuse, or recycling. Recovered material does not include those materials and by-products that are generated and normally reused on-site or within original manufacturing processes (such as mill broke, in the case of paper products).

"Recycled content" means the percentage of a product composed of recovered material, or post-consumer recovered material, or both.

"Recycled product" means a product containing recovered material, or post-consumer recovered material, or both.

The bidder agrees that preference for recycled products shall be taken into consideration to determine the low bidder in accordance with said Section and the rules promulgated, however, the award of contract will be in the amount of the bid offered exclusive any preference.

APPRENTICESHIP AGREEMENT PREFERENCE

1. If applicable to this project, any bidder seeking the preference must be a party to an apprenticeship agreement registered with the State Department of Labor and Industrial Relations (DLIR) at the time the bid is submitted for each apprenticeable trade the bidder will employ to construct the project. "Employ" means the employment of a person in an employer-employee relationship.

    a. The apprenticeship agreement shall be registered with the DLIR and conform to the requirements of Hawaii Revised Statutes Chapter 372.

    b. Subcontractors do not have to be a party to an apprenticeship agreement for the bidder to obtain 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.

2. A bidder seeking the preference must state the apprenticeable trade the bidder will employ for each trade to be employed to perform the work by submitting a completed signed original *Certification Form 1* verifying participation in an apprenticeship program registered with DLIR. "Apprenticeable trade" shall have the same meaning as "apprenticeable occupation" pursuant to Hawaii Administrative Rules (HAR) §12-30-5.

    a. The *Certification Form 1* shall be authorized by an apprenticeship sponsor listed on the DLIR list of registered apprenticeship programs. "Sponsor" means an operator of an apprenticeship program and in whose name the program is approved and registered with the DLIR pursuant to HAR §12-30-1.

    b. The authorization shall be an original signature by an authorized official of the apprenticeship sponsor.

    c. The completed signed original *Certification Form 1* for each trade must be submitted with the bid. Previous certifications shall not apply.

    d. When filling out the *Certification Form 1*, the name of Apprenticeable Trade and Apprenticeship Sponsor must be the same as recorded in the List of Construction Trades in Registered Apprenticeship Programs that is posted on the DLIR website. "Registered apprenticeship program" means a construction trade program approved by the DLIR pursuant to HAR §12-301 and §12-30-4.

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

3. Upon receiving the *Certification Form 1*, the Procurement Officer will verify that the apprenticeship program is on the List of Construction Trades in Registered Apprenticeship Programs and that the form is signed by an authorized official of the Apprenticeship Program Sponsor. If the programs and signature are not confirmed by the DLIR, the bidder will not qualify for the preference.

4. 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 bid

amount by five percent (5%) for evaluation purposes.

5. Should the bidder qualify for other preferences, all applicable preferences shall be applied to the bid price.

CONTRIBUTIONS BY STATE AND COUNTY CONTRACTORS PROHIBITED

Contractors are hereby notified of the applicability of Section 11-355, HRS, which states that campaign contributions are prohibited from specified State or county government contractors during the term of the contract if the contractors are paid with funds appropriated by a legislative body.

CONDITION OF AWARD

It is understood that the award of the contract will be made on the basis of the lowest responsible Total Base Bid and Additive Bids in accordance with the "Information and Instruction to Bidders", Items K and L, and as selected by the Board of Land and Natural Resources.

It is understood and agreed that the Board of Land and Natural Resources reserves the right to reject any and/or all bids and waive any defects when, in the Board's opinion, such rejection or waiver will be for the best interest of the State of Hawaii.

In the event all bids exceed available funds certified by the appropriate fiscal officer, the head of the purchasing agency responsible for the procurement in question is authorized in situations where time or economic considerations preclude resolicitation of work of a reduced scope to negotiate an adjustment of the bid price, including changes in the bid requirements, with the low responsible and responsive bidder, in order to bring the bid within the amount of available funds. It is understood and agreed upon that the head of the purchasing agency may delete a portion or all of any item(s) in the proposal at the stated unit or lump sum price as necessary to stay within the available funding. The bidder is responsible to make an earnest effort to represent the actual cost of each item, including all materials, labor, equipment, overhead and profit in their bid proposal to preclude claims of anticipated profit or loss of profit because of an unbalanced bid proposal.

It is also understood that if a mutually agreeable cost for the reduced scope of work necessitated by a lack of available funds cannot be agreed upon between the bidder and the head of the purchasing agency within 14 calendar days after the bid opening, then the bid may be rejected in the best interest of the purchasing agency, and the head of the purchasing agency may negotiate in progressive order (lowest to highest) with the next lowest responsible and responsive bidder.

It is also understood and agreed that the award of the contract shall be conditioned upon funds being made available for this project and further upon the right of the Board of Land and Natural Resources to hold all bids received for a period of one hundred eighty (180) days from the date of the opening thereof, unless otherwise required by law, during which time no bid may be withdrawn.

It is also understood that Notice to Proceed may be delayed up to one (1) year after the bid opening date, and that no additional compensation will be provided for any claim for escalation or delay for issuance of Notice to Proceed on or before that date.

It is also understood and agreed that the quantities given herewith are approximate only and are subject to increase or decrease, and that the undersigned will perform all quantities of work as either increased or decreased, in accordance with the provisions of the Contract Specifications.

It is also understood and agreed that the estimated quantities shown for the items for which a UNIT PRICE is asked in this Proposal are only for the purpose of comparing on a uniform basis, bids offered for the work under this contract, and the undersigned agrees that he is satisfied with and will at no time, dispute said estimated quantities as a means of claims for anticipated profit or loss of profit, because of a difference between the quantities of the various classes of work done or the materials and equipment installed, and the said estimated quantities. On UNIT PRICE bids, payment will be made only for the actual number of units incorporated into the finished project at the contract UNIT PRICE.

After the HIePRO bid due date and time, the figures will be extended and/or totaled in accordance with the bid prices of the acceptable proposals and the totals will be compared. In the comparison of bids, words written in the proposal shall govern over figures and unit prices will govern over totals. Until the award of the contract, however, the right will be reserved to reject any and all proposals and to

waive any defects or technicalities as may be deemed best for the interest of the State.

It is also understood and agreed that liquidated damages in the amount of Three hundred and no/100 dollars ($ 300.00) for each and every calendar day in excess thereof prior to completion of the contract shall be withheld from payments due to the Contractor.

It is also understood and agreed that if this bid is accepted, the successful bidder must enter into and execute a contract with the Board of Land and Natural Resources and furnish a Performance and Payment Bond, as required by law. These bonds shall conform to provisions of Section 103D-324 and 325, Hawaii Revised Statutes and any law applicable hereto.

It is also understood and agreed that the successful bidder will provide all necessary labor, materials, tools, equipment, and other incidentals necessary to do all the work and furnish all the materials specified in the contract in the manner and time herein prescribed, and according to the requirements of The Engineer as therein set forth.

It is understood that by submitting this proposal, 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 two years.

It is understood that by submitting this proposal in accordance with HAR 3-122-192, the undersigned is declaring that the price submitted is independently arrived without collusion.

It is also understood that by submitting this proposal, a Certification for Safety and Health Programs for bids in excess of $100,000 (in accordance with HRS 396-18), the undersigned certifies that his organization 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 (HIOSH).

It is further understood and agreed that the successful bidder shall comply with paragraph 3.1.a "SUBCONTRACTING" of the General Provisions which requires that the contractor shall perform with his own organization and with the assistance of workmen under his immediate superintendence, work of a value not less than twenty percent (20%) of the value of all work embraced in the Contract, except that certain contract items of work, if specifically referred to in the special provisions, will be exempted from said twenty percent requirement.

Compliance with §103-310 HRS. As a condition of award all bidders shall comply with all laws governing entities doing business in the State, including Chapter 237 HRS (general excise tax); Chapter 383 HRS (employment security – unemployment insurance); Chapter 386 HRS (workers compensation); Chapter 392 HRS (temporary disability insurance); and Chapter 393 HRS (pre-paid health care), and shall produce all documents to the State (DLNR, Engineering Division) required to demonstrate compliance with these subsections. Any bidder making a false affirmation or certification under this subsection shall be suspended and may be debarred from further offerings or awards pursuant to §103D-702 HRS.

RECEIPT OF ADDENDA

The bidder also acknowledges receipt of any and all addenda issued by the Engineering Division, by recording the date of receipt of the respective addenda in the space provided below:

Addendum	Date Received	Addendum	Date Received
No. 1	_____	No. 5	_____
No. 2	_____	No. 6	_____
No. 3	_____	No. 7	_____
No. 4	_____	No. 8	_____

It is understood that failure to receive any such addendum shall not relieve the Contractor from any obligation under this Proposal as submitted.

It is also understood and agreed that if this Proposal is accepted and the undersigned should fail or neglect to contract as aforesaid, the Board may determine that the bidder has abandoned the Contract, and thereupon, forfeiture of the security accompanying his proposal shall operate and the same shall become the property of the Board.

JOINT CONTRACTORS OR SUBCONTRACTORS TO BE ENGAGED ON THIS PROJECT

The Bidder agrees that the following is a complete listing of all joint contractors or subcontractors covered under Chapter 444, Hawaii Revised Statutes (HRS), who will be engaged by the Bidder on this project to perform the required work indicated pursuant to Section 103D-302, HRS. It is the sole responsibility of the contractor to review the requirements of this Project and determine the appropriate licenses that are required to complete the Project. The Bidder certifies that the completed listing of joint contractors or subcontractors fulfills the requirements for the project and the Bidder, together with the listed subcontractors or joint contractors have all the specialty contractor's licenses to complete the work, except as provided for in HRS §103D-302(b). Failure of the Bidder to comply with this requirement may be just cause for rejection of the bid.

"A" General Engineering Contractors and "B" General Building Contractors are reminded that due to the Hawaii Supreme Court's January 28, 2002 decision in Okada Trucking Co., Ltd. v. Board of Water Supply, et al., 97 Haw. 450 (2002), they are prohibited from undertaking any work, solely or as part of a larger project, which would require the general contractor to act as a specialty contractor in any area in which the general contractor has no license. Although the "A" and "B" contractor may still bid on and act as the "prime" contractor on an "A" or "B" project (See, *HRS §*444-7 *for the definitions of an "A" and "B" project*.), respectively, the "A" and "B" contractor may only perform work in the areas in which they have the appropriate contractor's license (*An "A" or "B" contractor obtains "C" specialty contractor's licenses either on its own, or automatically under HAR § 16-77-32*). The remaining work must be performed by appropriately licensed entities.

General Engineering "A" Contractors automatically have these "C" specialty contractor's licenses: C-3, C-9, C-10, C-17, C-24, C-31a, C-32, C-35, C-37a, C-37b, C-38, C-43, C-49, C-56, C-57a, C-57b and C-61.

General Building "B" Contractors automatically have these "C" specialty contractor's licenses: C-5, C-6, C-10, C-12, C-24, C-25, C-31a, C-32a, C-42a and C-42b.

In completing the Joint Contractors or Subcontractors List, describe the specialty contractor's nature and scope of work to be performed for this project and provide the complete firm name of the joint contractor or subcontractor in the respective columns. If the Bidder is a general contractor and providing the work of the required specialty contractor, fill in the Bidder's (general contractor's) name and nature and scope of work to be performed on this project.

List only one joint contractor or subcontractor per required specialty contractor's classification, unless within the same specialty, the work of each joint contractor or subcontractor can be described so that there is no overlap in work descriptions.

If a contractor's license is required by law for the performance of the work which is called for in this bid, the bidder and all subcontractors must have the required license before the submission of the bidder's proposal in the case of a non-federal aid project, and for federal-aid projects, the bidder must have the required license prior to the award of the project and all subcontractors prior to the start of the subcontracted work.

BASE BID

COMPLETE FIRM NAME OF JOINT CONTRACTOR OR SUBCONTRACTOR	NATURE AND SCOPE OF WORK TO BE PERFORMED

JOINT CONTRACTORS OR SUBCONTRACTORS LIST FOR THE ADDITIVE(S):

Bidder agrees that for projects with additives(s), the Bidder, joint contractor or subcontractor listed in the completed "Joint Contractors or Subcontractors List for the Additives(s)" will perform work for the respective additives.

ADDITIVE BID ITEM 1

COMPLETE FIRM NAME OF JOINT CONTRACTOR OR SUBCONTRACTOR	NATURE AND SCOPE OF WORK TO BE PERFORMED

ADDITIVE BID ITEM 2

COMPLETE FIRM NAME OF JOINT CONTRACTOR OR SUBCONTRACTOR	NATURE AND SCOPE OF WORK TO BE PERFORMED

ADDITIVE BID ITEM 3

COMPLETE FIRM NAME OF JOINT CONTRACTOR OR SUBCONTRACTOR	NATURE AND SCOPE OF WORK TO BE PERFORMED

DEDUCTIVE BID ITEM 1

COMPLETE FIRM NAME OF JOINT CONTRACTOR OR SUBCONTRACTOR	NATURE AND SCOPE OF WORK TO BE PERFORMED

Enclosed herewith is a:

1.	Surety Bond (*1)	)	
2.	Legal Tender (*2)	)	
3.	Cashier's Check (*3)	)	
4.	Certificate of Deposit (*3)	)	in the
5.	Certified Check (*3)	)	amount
6.	Official Check (*3)	)	of
7.	Share Certificate (*3)	)	
8.	Teller's Check (*3)	)	
9.	Treasurer's Check (*3)	)	

(Cross Out Those Not Applicable)

_____

_____Dollars ($_____)

as required by law.

Respectfully submitted,

_____
Name of Company, Joint Venture
or Partnership

_____
Contractor's License No.

By _____
Signature (*4)

Title _____
Print Name _____
Date _____
Address _____
_____
Telephone No. _____
E-Mail Address _____

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 drawn by, or a certified 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 or 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. PROPOSAL MUST BE INTACT, MISSING PAGES MAY INVALIDATE YOUR BID.

End of Proposal

SECTION 08710

DOOR HARDWARE

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section includes commercial door hardware for the following:

1. Swinging doors.

2. Sliding doors.

3. Other doors to the extent indicated.

B. Door hardware includes, but is not necessarily limited to, the following:

1. Mechanical door hardware.

2. Electromechanical door hardware.

3. Cylinders specified for doors in other sections.

C. Related Sections:

1. Division 08 Section “Hollow Metal Doors and Frames”.

2. Division 08 Section “Flush Wood Doors”.

3. Division 08 Section “Aluminum-Framed Entrances and Storefronts”.

D. Codes and References: Comply with the version year adopted by the Authority Having Jurisdiction.

1. ANSI A117.1 - Accessible and Usable Buildings and Facilities.

2. ICC/IBC - International Building Code.

3. NFPA 70 - National Electrical Code.

4. NFPA 80 - Fire Doors and Windows.

5. NFPA 101 - Life Safety Code.

6. NFPA 105 - Installation of Smoke Door Assemblies.

7. State Building Codes, Local Amendments.

E. Standards: All hardware specified herein shall comply with the following industry standards:

1. ANSI/BHMA Certified Product Standards - A156 Series

2. UL10C – Positive Pressure Fire Tests of Door Assemblies

1.3 SUBMITTALS

A. Product Data: Manufacturer's product data sheets including installation details, material descriptions, dimensions of individual components and profiles, operational descriptions and finishes.

B. Door Hardware Schedule: Prepared by or under the supervision of supplier, detailing fabrication and assembly of door hardware, as well as procedures and diagrams. Coordinate the final Door Hardware Schedule with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of door hardware.

1. Format: Comply with scheduling sequence and vertical format in DHI's "Sequence and Format for the Hardware Schedule."

2. Organization: Organize the Door Hardware Schedule into door hardware sets indicating complete designations of every item required for each door or opening. Organize door hardware sets in same order as in the Door Hardware Sets at the end of Part 3. Submittals that do not follow the same format and order as the Door Hardware Sets will be rejected and subject to resubmission.

3. Content: Include the following information:

a. Type, style, function, size, label, hand, and finish of each door hardware item.

b. Manufacturer of each item.

c. Fastenings and other pertinent information.

d. Location of door hardware set, cross-referenced to Drawings, both on floor plans and in door and frame schedule.

e. Explanation of abbreviations, symbols, and codes contained in schedule.

f. Mounting locations for door hardware.

g. Door and frame sizes and materials.

h. Warranty information for each product.

4. Submittal Sequence: Submit the final Door Hardware Schedule at earliest possible date, particularly where approval of the Door Hardware Schedule must precede fabrication of other work that is critical in the Project construction schedule. Include Product Data, Samples, Shop Drawings of other work affected by door hardware, and other information essential to the coordinated review of the Door Hardware Schedule.

C. Shop Drawings: Details of electrified access control hardware indicating the following:

1. Wiring Diagrams: Upon receipt of approved schedules, submit detailed system wiring diagrams for power, signaling, monitoring, communication, and control of the access control system electrified hardware. Differentiate between manufacturer-installed and field-installed wiring. Include the following:

a. Elevation diagram of each unique access controlled opening showing location and interconnection of major system components with respect to their placement in the respective door openings.

b. Complete (risers, point-to-point) access control system block wiring diagrams.

c. Wiring instructions for each electronic component scheduled herein.

2. Electrical Coordination: Coordinate with related sections the voltages and wiring details required at electrically controlled and operated hardware openings.

D. Keying Schedule: After a keying meeting with the owner has taken place prepare a separate keying schedule detailing final instructions. Submit the keying schedule in electronic format. Include keying system explanation, door numbers, key set symbols, hardware set numbers and special instructions. Owner must approve submitted keying schedule prior to the ordering of permanent cylinders/cores.

E. Informational Submittals:

1. Product Test Reports: Indicating compliance with cycle testing requirements, based on evaluation of comprehensive tests performed by manufacturer and witnessed by a qualified independent testing agency.

F. Operating and Maintenance Manuals: Provide manufacturers operating and maintenance manuals for each item comprising the complete door hardware installation in quantity as required in Division 01, Closeout Submittals.

1.4 QUALITY ASSURANCE

A. Manufacturers Qualifications: Engage qualified manufacturers with a minimum 5 years of documented experience in producing hardware and equipment similar to that indicated for this Project and that have a proven record of successful in-service performance.

B. Installer Qualifications: A minimum 3 years documented experience installing both standard and electrified door hardware similar in material, design, and extent to that indicated for this Project and whose work has resulted in construction with a record of successful in-service performance.

C. Door Hardware Supplier Qualifications: Experienced commercial door hardware distributors with a minimum 5 years documented experience supplying both mechanical and electromechanical hardware installations comparable in material, design, and extent to that indicated for this Project. Supplier recognized as a factory direct distributor by the manufacturers of the primary materials with a warehousing facility in Project's vicinity. Supplier to have on staff a certified Architectural Hardware Consultant (AHC) available during the course of the Work to consult with Contractor, Architect, and Owner concerning both standard and electromechanical door hardware and keying.

D. Source Limitations: Obtain each type and variety of door hardware specified in this section from a single source unless otherwise indicated.

1. Electrified modifications or enhancements made to a source manufacturer's product line by a secondary or third party source will not be accepted.

2. Provide electromechanical door hardware from the same manufacturer as mechanical door hardware, unless otherwise indicated.

E. Each unit to bear third party permanent label demonstrating compliance with the referenced standards.

F. Keying Conference: Conduct conference to comply with requirements in Division 01 Section "Project Meetings." Keying conference to incorporate the following criteria into the final keying schedule document:

1. Function of building, purpose of each area and degree of security required.

2. Plans for existing and future key system expansion.

3. Requirements for key control storage and software.

4. Installation of permanent keys, cylinder cores and software.

5. Address and requirements for delivery of keys.

G. Pre-Submittal Conference: Conduct coordination conference in compliance with requirements in Division 01 Section "Project Meetings" with attendance by representatives of Supplier(s), Installer(s), and Contractor(s) to review proper methods and the procedures for receiving, handling, and installing door hardware.

1. Prior to installation of door hardware, conduct a project specific training meeting to instruct the installing contractors' personnel on the proper installation and adjustment of their respective products. Product training to be attended by installers of door hardware

(including electromechanical hardware) for aluminum, hollow metal and wood doors. Training will include the use of installation manuals, hardware schedules, templates and physical product samples as required.

2. Inspect and discuss electrical roughing-in, power supply connections, and other preparatory work performed by other trades.

3. Review sequence of operation narratives for each unique access controlled opening.

4. Review and finalize construction schedule and verify availability of materials.

5. Review the required inspecting, testing, commissioning, and demonstration procedures

H. At completion of installation, provide written documentation that components were applied to manufacturer's instructions and recommendations and according to approved schedule.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Inventory door hardware on receipt and provide secure lock-up and shelving for door hardware delivered to Project site. Do not store electronic access control hardware, software or accessories at Project site without prior authorization.

B. Tag each item or package separately with identification related to the final Door Hardware Schedule, and include basic installation instructions with each item or package.

C. Deliver, as applicable, permanent keys, cylinders, cores, access control credentials, software and related accessories directly to Owner via registered mail or overnight package service. Instructions for delivery to the Owner shall be established at the "Keying Conference".

1.6 COORDINATION

A. Templates: Obtain and distribute to the parties involved templates for doors, frames, and other work specified to be factory prepared for installing standard and electrified hardware. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing hardware to comply with indicated requirements.

B. Door Hardware and Electrical Connections: Coordinate the layout and installation of scheduled electrified door hardware and related access control equipment with required connections to source power junction boxes, low voltage power supplies, detection and monitoring hardware, and fire and detection alarm systems.

C. Door and Frame Preparation: Doors and corresponding frames are to be prepared, reinforced and pre-wired (if applicable) to receive the installation of the specified electrified, monitoring, signaling and access control system hardware without additional in-field modifications.

1.7 WARRANTY

A. General Warranty: Reference Division 01, General Requirements. Special warranties specified in this Article shall not deprive Owner of other rights Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by Contractor under requirements of the Contract Documents.

B. Warranty Period: Written warranty, executed by manufacturer(s), agreeing to repair or replace components of standard and electrified door hardware that fails in materials or workmanship within specified warranty period after final acceptance by the Owner. Failures include, but are not limited to, the following:

1. Structural failures including excessive deflection, cracking, or breakage.

2. Faulty operation of the hardware.

3. Deterioration of metals, metal finishes, and other materials beyond normal weathering.

4. Electrical component defects and failures within the systems operation.

C. Standard Warranty Period: One year from date of Substantial Completion, unless otherwise indicated.

D. Special Warranty Periods:

1. Seven years for heavy duty cylindrical (bored) locks and latches.

2. Ten years for manual surface door closer bodies.

3. Two years for electromechanical door hardware.

1.8 MAINTENANCE SERVICE

A. Maintenance Tools and Instructions: Furnish a complete set of specialized tools and maintenance instructions as needed for Owner's continued adjustment, maintenance, and removal and replacement of door hardware.

PART 2 - PRODUCTS

2.1 SCHEDULED DOOR HARDWARE

A. General: Provide door hardware for each door to comply with requirements in Door Hardware Sets and each referenced section that products are to be supplied under.

B. Designations: Requirements for quantity, item, size, finish or color, grade, function, and other distinctive qualities of each type of door hardware are indicated in the Door Hardware Sets at the end of Part 3. Products are identified by using door hardware designations, as follows:

1. Named Manufacturer's Products: Product designation and manufacturer are listed for each door hardware type required for the purpose of establishing requirements. Manufacturers' names are abbreviated in the Door Hardware Schedule.

C. Substitutions: Requests for substitution and product approval for inclusive mechanical and electromechanical door hardware in compliance with the specifications must be submitted in writing and in accordance with the procedures and time frames outlined in Division 01, Substitution Procedures. Approval of requests is at the discretion of the architect, owner, and their designated consultants.

2.2 HANGING DEVICES

A. Hinges: ANSI/BHMA A156.1 certified butt hinges with number of hinge knuckles and other options as specified in the Door Hardware Sets.

1. Quantity: Provide the following hinge quantity:

a. Two Hinges: For doors with heights up to 60 inches.

b. Three Hinges: For doors with heights 61 to 90 inches.

c. Four Hinges: For doors with heights 91 to 120 inches.

d. For doors with heights more than 120 inches, provide 4 hinges, plus 1 hinge for every 30 inches of door height greater than 120 inches.

2. Hinge Size: Provide the following, unless otherwise indicated, with hinge widths sized for door thickness and clearances required:

a. Widths up to 3’0”: 4-1/2” standard or heavy weight as specified.

b. Sizes from 3’1” to 4’0”: 5” standard or heavy weight as specified.

3. Hinge Weight and Base Material: Unless otherwise indicated, provide the following:

a. Exterior Doors: Heavy weight, non-ferrous, ball bearing or oil impregnated bearing hinges unless Hardware Sets indicate standard weight.

b. Interior Doors: Standard weight, steel, ball bearing or oil impregnated bearing hinges unless Hardware Sets indicate heavy weight.

4. Hinge Options: Comply with the following:

a. Non-removable Pins: Provide set screw in hinge barrel that, when tightened into a groove in hinge pin, prevents removal of pin while door is closed; for the all out-swinging lockable doors.

5. Manufacturers:

a. Hager Companies (HA) - CB Series.

b. McKinney Products; ASSA ABLOY Architectural Door Accessories (MK) - TA Series.

c. Stanley Hardware (ST) - CB Series.

2.3 DOOR OPERATING TRIM

A. Door Push Plates and Pulls: ANSI/BHMA A156.6 certified door pushes and pulls of type and design specified in the Hardware Sets. Coordinate and provide proper width and height as required where conflicting hardware dictates.

1. Push/Pull Plates: Minimum .050 inch thick, size as indicated in hardware sets, with beveled edges, secured with exposed screws unless otherwise indicated.

2. Door Pull and Push Bar Design: Size, shape, and material as indicated in the hardware sets. Minimum clearance of 2 1/2-inches from face of door unless otherwise indicated.

3. Offset Pull Design: Size, shape, and material as indicated in the hardware sets. Minimum clearance of 2 1/2-inches from face of door and offset of 90 degrees unless otherwise indicated.

4. Leather: Where specified English bridle and Italian Upholstery shall be 10 ounce with hand sewn saddle stiches and hand sewn end line stiches.

5. Fasteners: Provide manufacturer's designated fastener type as indicated in Hardware Sets.

6. Manufacturers:

a. Hiawatha, Inc. (HI).

b. Rockwood Products; ASSA ABLOY Architectural Door Accessories (RO).

c. Trimco (TC).

2.4 CYLINDERS AND KEYING

A. General: Cylinder manufacturer to have minimum (10) years experience designing secured master key systems and have on record a published security keying system policy.

B. Source Limitations: Obtain each type of keyed cylinder and keys from the same source manufacturer as locksets and exit devices, unless otherwise indicated.

C. Cylinders: Original manufacturer cylinders complying with the following:

1. Mortise Type: Threaded cylinders with rings and cams to suit hardware application.

2. Rim Type: Cylinders with back plate, flat-type vertical or horizontal tailpiece, and raised trim ring.

3. Bored-Lock Type: Cylinders with tailpieces to suit locks.

4. Mortise and rim cylinder collars to be solid and recessed to allow the cylinder face to be flush and be free spinning with matching finishes.

5. Keyway: Match Facility Standard.

D. Keying System: Each type of lock and cylinders to be factory keyed.

1. Conduct specified "Keying Conference" to define and document keying system instructions and requirements.

2. Furnish factory cut, nickel-silver large bow permanently inscribed with a visual key control number as directed by Owner.

3. Existing System: Key locks to Owner's existing system.

E. Key Quantity: Provide the following minimum number of keys:

1. Change Keys per Cylinder: Two (2)

2. Master Keys (per Master Key Level/Group): Five (5).

3. Construction Keys (where required): Ten (10).

F. Construction Keying: Provide construction master keyed cylinders.

G. Key Registration List (Bitting List):

1. Provide keying transcript list to Owner's representative in the proper format for importing into key control software.

2. Provide transcript list in writing or electronic file as directed by the Owner.

2.5 MECHANICAL LOCKS AND LATCHING DEVICES

A. Cylindrical Locksets, Grade 1 (Heavy Duty): ANSI/BHMA A156.2, Series 4000, Grade 1 certified.

1. Furnish with solid cast levers, standard 2 3/4” backset, and 1/2" (3/4" at rated paired openings) throw brass or stainless steel latchbolt.

2. Locks are to be non-handed and fully field reversible.

3. Extended cycle test: Locks to have been cycle tested in ordinance with ANSI/BHMA 156.2 requirements to 2 million cycles.

4. Manufacturers:

    a. Corbin Russwin Hardware (RU) – CL3300 Series.

    b. Sargent Manufacturing (SA) – 10 Line.

2.6 STAND ALONE ACCESS CONTROL LOCKING DEVICES

A. Stand Alone Integrated Access Control Lockets: Internal, battery-powered, self-contained ANSI Grade 1, mortise or cylindrical lock consisting of electronically motor driven locking mechanism, integrated keypad, proximity card reader, or keypad/proximity card reader combination, and specified electronic programming accessories. Locks to accept standard, interchangeable (removable) core, security and high security override cylinders. Provide keypad/proximity and proximity only products with a minimum of 2,000 user codes, key override, low-battery detection and warning, LED status indicators, and ability to program at the lock for the functions indicated.

    1. Energy Efficient Design: Provide lock bodies which have a holding current draw of 15mA maximum, and can operate on either 12 or 24 volts. Locks are to be field configurable for fail safe or fail secure operation.

    2. Manufacturers:

        a. Corbin Russwin Hardware (RU) - Access 800 AC2 Series.

        b. Sargent Manufacturing (SA) - Profile v.G1 Series.

B. Narrow Stile Stand Alone Keypad Trim: Battery powered access control trim for narrow stile door applications. Internal clutch protected locking/unlocking control of the exterior lever handle trim. Field selectable handing with keyed cylinder override access capability.

    1. Card reader trim retrofits to Adams Rite MS Series Deadbolts, 4000 Series Deadlatches, and 8000 Series Exit Devices in 31/32" backsets and greater.

    2. Keypad trim can accommodate up to 150 users, (including master, supervisor and emergency users) plus two one-time codes and three operational modes (standard, passage, and lockout). Powered by (4) standard "AA" batteries.

    3. Manufacturers:

        a. Adams Rite Manufacturing (AD) - eForce 3090 Series.

2.7 AUXILIARY LOCKS

A. Mortise Deadlocks, Large Case: ANSI/BHMA A156.13, Series 1000, Grade 1, certified large case mortise type deadlocks constructed of heavy gauge wrought corrosion resistant steel. One piece stainless steel bolts with a 1" throw. Deadlocks to be products of the same source manufacturer and keyway as other locksets.

1. Manufacturers:

    a. Corbin Russwin Hardware (RU) - ML2000 Series.

    b. Sargent Manufacturing (SA) - 8200 Series.

    c. Yale Locks and Hardware (YA) - 8800 Series.

2.8 LOCK AND LATCH STRIKES

A. Strikes: Provide manufacturer's standard strike with strike box for each latch or lock bolt, with curved lip extended to protect frame, finished to match door hardware set, unless otherwise indicated, and as follows:

1. Flat-Lip Strikes: For locks with three-piece antifriction latchbolts, as recommended by manufacturer.

2. Extra-Long-Lip Strikes: For locks used on frames with applied wood casing trim.

3. Aluminum-Frame Strike Box: Provide manufacturer's special strike box fabricated for aluminum framing.

4. Double-lipped strikes: For locks at double acting doors. Furnish with retractable stop for rescue hardware applications.

B. Standards: Comply with the following:

1. Strikes for Mortise Locks and Latches: BHMA A156.13.

2. Strikes for Bored Locks and Latches: BHMA A156.2.

3. Strikes for Auxiliary Deadlocks: BHMA A156.36.

4. Dustproof Strikes: BHMA A156.16.

2.9 DOOR CLOSERS

A. All door closers specified herein shall meet or exceed the following criteria:

1. General: Door closers to be from one manufacturer, matching in design and style, with the same type door preparations and templates regardless of application or spring size. Closers to be non-handed with full sized covers including installation and adjusting information on inside of cover.

2. Standards: Closers to comply with UL-10C for Positive Pressure Fire Test and be U.L. listed for use of fire rated doors.

3. Cycle Testing: Provide closers which have surpassed 15 million cycles in a test witnessed and verified by UL.

4. Size of Units: Comply with manufacturer's written recommendations for sizing of door closers depending on size of door, exposure to weather, and anticipated frequency of use. Where closers are indicated for doors required to be accessible to the physically handicapped, provide units complying with ANSI ICC/A117.1.

5. Closer Arms: Provide heavy duty, forged steel closer arms unless otherwise indicated in Hardware Sets.

6. Closers shall not be installed on exterior or corridor side of doors; where possible install closers on door for optimum aesthetics.

7. Closer Accessories: Provide door closer accessories including custom templates, special mounting brackets, spacers and drop plates as required for proper installation. Provide through-bolt and security type fasteners as specified in the hardware sets.

B. Door Closers, Surface Mounted (Commercial Duty): ANSI/BHMA 156.4, Grade 1 certified surface mounted, institutional grade door closers with complete spring power adjustment, sizes 1 thru 6; and fully operational adjustable according to door size, frequency of use, and opening force. Closers to be rack and pinion type, one piece cast iron or aluminum alloy body construction, with adjustable backcheck, closing sweep, and latch speed control valves. Provide non-handed units standard.

1. Manufacturers:

a. Corbin Russwin Hardware (RU) - DC6000 Series.

b. Norton Door Controls (NO) - 8500 Series.

c. Sargent Manufacturing (SA) - 1431 Series.

d. Yale Locks and Hardware (YA) - 3500 Series.

2.10 DOOR STOPS AND HOLDERS

A. General: Door stops and holders to be of type and design as specified below or in the Hardware Sets.

B. Door Stops and Bumpers: ANSI/BHMA A156.16, Grade 1 certified door stops and wall bumpers. Provide wall bumpers, either convex or concave types with anchorage as indicated, unless floor or other types of door stops are specified in Hardware Sets. Do not mount floor stops where they will impede traffic. Where floor or wall bumpers are not appropriate, provide overhead type stops and holders.

1. Manufacturers:

a. Hiawatha, Inc. (HI).

b. Rockwood Products; ASSA ABLOY Architectural Door Accessories (RO).

c. Trimco (TC).

2.11 ARCHITECTURAL SEALS

A. General: Thresholds, weatherstripping, and gasket seals to be of type and design as specified below or in the Hardware Sets. Provide continuous weatherstrip gasketing on exterior doors and provide smoke, light, or sound gasketing on interior doors where indicated. At exterior applications provide non-corrosive fasteners and elsewhere where indicated.

B. Smoke Labeled Gasketing: Assemblies complying with NFPA 105 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for smoke control ratings indicated, based on testing according to UL 1784.

1. Provide smoke labeled perimeter gasketing at all smoke labeled openings.

C. Fire Labeled Gasketing: Assemblies complying with NFPA 80 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire ratings indicated, based on testing according to UL-10C.

1. Provide intumescent seals as indicated to meet UL10C Standard for Positive Pressure Fire Tests of Door Assemblies, and NPFA 252, Standard Methods of Fire Tests of Door Assemblies.

D. Sound-Rated Gasketing: Assemblies that are listed and labeled by a testing and inspecting agency, for sound ratings indicated.

E. Replaceable Seal Strips: Provide only those units where resilient or flexible seal strips are easily replaceable and readily available from stocks maintained by manufacturer.

F. Manufacturers:

1. National Guard Products (NG).

2. Pemko Products; ASSA ABLOY Architectural Door Accessories (PE).

3. Reese Enterprises, Inc. (RE).

2.12 FABRICATION

A. Fasteners: Provide door hardware manufactured to comply with published templates generally prepared for machine, wood, and sheet metal screws. Provide screws according to manufacturers recognized installation standards for application intended.

2.13 FINISHES

A. Standard: Designations used in the Hardware Sets and elsewhere indicate hardware finishes complying with ANSI/BHMA A156.18, including coordination with traditional U.S. finishes indicated by certain manufacturers for their products.

B. Provide quality of finish, including thickness of plating or coating (if any), composition, hardness, and other qualities complying with manufacturer's standards, but in no case less than specified by referenced standards for the applicable units of hardware

C. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine scheduled openings, with Installer present, for compliance with requirements for installation tolerances, labeled fire door assembly construction, wall and floor construction, and other conditions affecting performance.

B. Notify architect of any discrepancies or conflicts between the door schedule, door types, drawings and scheduled hardware. Proceed only after such discrepancies or conflicts have been resolved in writing.

3.2 PREPARATION

A. Hollow Metal Doors and Frames: Comply with ANSI/DHI A115 series.

B. Wood Doors: Comply with ANSI/DHI A115-W series.

3.3 INSTALLATION

A. Install each item of mechanical and electromechanical hardware and access control equipment to comply with manufacturer's written instructions and according to specifications.

1. Installers are to be trained and certified by the manufacturer on the proper installation and adjustment of fire, life safety, and security products including: hanging devices; locking devices; closing devices; and seals.

B. Mounting Heights: Mount door hardware units at heights indicated in following applicable publications, unless specifically indicated or required to comply with governing regulations:

1. Standard Steel Doors and Frames: DHI's "Recommended Locations for Architectural Hardware for Standard Steel Doors and Frames."

2. Wood Doors: DHI WDHS.3, "Recommended Locations for Architectural Hardware for Wood Flush Doors."

3. Where indicated to comply with accessibility requirements, comply with ANSI A117.1 "Accessibility Guidelines for Buildings and Facilities."

4. Provide blocking in drywall partitions where wall stops or other wall mounted hardware is located.

C. Retrofitting: Install door hardware to comply with manufacturer's published templates and written instructions. Where cutting and fitting are required to install door hardware onto or into surfaces that are later to be painted or finished in another way, coordinate removal, storage, and reinstallation of surface protective trim units with finishing work specified in Division 9 Sections. Do not install surface-mounted items until finishes have been completed on substrates involved.

D. Thresholds: Set thresholds for exterior and acoustical doors in full bed of sealant complying with requirements specified in Division 7 Section "Joint Sealants."

E. Storage: Provide a secure lock up for hardware delivered to the project but not yet installed. Control the handling and installation of hardware items so that the completion of the work will not be delayed by hardware losses before and after installation.

3.4 FIELD QUALITY CONTROL

A. Field Inspection: Supplier will perform a final inspection of installed door hardware and state in report whether work complies with or deviates from requirements, including whether door hardware is properly installed, operating and adjusted.

3.5 ADJUSTING

A. Initial Adjustment: Adjust and check each operating item of door hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate as intended. Adjust door control devices to compensate for final operation of heating and ventilating equipment and to comply with referenced accessibility requirements.

3.6 CLEANING AND PROTECTION

A. Protect all hardware stored on construction site in a covered and dry place. Protect exposed hardware installed on doors during the construction phase. Install any and all hardware at the latest possible time frame.

B. Clean adjacent surfaces soiled by door hardware installation.

C. Clean operating items as necessary to restore proper finish. Provide final protection and maintain conditions that ensure door hardware is without damage or deterioration at time of owner occupancy.

3.7 DEMONSTRATION

A. Instruct Owner's maintenance personnel to adjust, operate, and maintain mechanical and electromechanical door hardware.

3.8 DOOR HARDWARE SETS

A. The hardware sets represent the design intent and direction of the owner and architect. They are a guideline only and should not be considered a detailed hardware schedule. Discrepancies, conflicting hardware and missing items should be brought to the attention of the architect with corrections made prior to the bidding process. Omitted items not included in a hardware set should be scheduled with the appropriate additional hardware required for proper application and functionality.

B. The supplier is responsible for handing and sizing all products and providing the correct option for the appropriate door type and material where more than one is presented in the hardware sets. Quantities listed are for each pair of doors, or for each single door.

Hardware Sets

Set: 2.0

Doors: 3

1	Mortise Deadlock	MS1850S	628	AD
1	Thumbturn Cylinder	ADA7181	26D	KA
1	Cylinder	26-098	626	SC
1	Push Bar & Pull	BF15747 T1HD	US32D	RO
1	Door Stop	471 EXP	US26D	RO
1	Threshold	Per Detail x FHSL14	Al	PE
1	Balance of Hardware	By Door Manufacturer		OT

Set: 3.0

Doors: 1, 2

2	Hinge (heavy weight)	T4A3386 NRP	US32D	MK
1	Electric Hinge (heavy weight)	T4A3386-QCxx	US32D	MK
1	Keypad Lock	G1-8278 LUL	US26D	SA
1	Cylinder	26-091 B520-296	613	SC
1	Surface Closer	PR8501	689	NO
1	Door Stop	471 EXP	US26D	RO
1	Threshold	Per Detail x FHSL14	Al	PE

1	Rain Guard	346C x Full Frame Width	Al	PE
1	Gasket	S44D Head & Jambs		PE
1	Sweep	57AV		PE
1	Power Supply	3267		SA
1	Wiring Harness	52-3010		SA
1	Weather Shroud	52-2593		SA

Set: 4.0

Doors: 4

2	Hinge	TA2314	US32D	MK
1	Electric Hinge	TA2314-QCxx	US32D	MK
1	Keypad Lock	SF G1-10G77 LUL	US26D	SA
1	Cylinder	23-030	626	SC
1	Surface Closer	8501	689	NO
1	Wall Stop	409	US32D	RO
3	Silencer	608		RO
1	Power Supply	3267		SA
1	Wiring Harness	52-3010		SA
1	Weather Shroud	52-2593		SA

Set: 5.0

Doors: 5

3	Hinge	TA2314	US32D	MK
1	Passage Latch	10U15 LL	US26D	SA
1	Wall Stop	409	US32D	RO
1	Gasket	S44D Head & Jambs		PE

Set: 6.0

Doors: 8

3	Hinge	TA2314	US32D	MK
1	Passage Latch	10U15 LL	US26D	SA
1	Surface Closer	8501	689	NO
1	Wall Stop	409	US32D	RO
1	Gasket	S44D Head & Jambs		PE

Set: 7.0

Doors: 7

3	Hinge	TA2314	US32D	MK
1	Storeroom Lock	SF 10G04 LL	US26D	SA
1	Cylinder	23-030	626	SC
1	Kick Plate	K1050 10" x 2LDW BEV CSK	US32D	RO
1	Wall Stop	409	US32D	RO
1	Threshold	151A FHSL14 (verify conditions)		PE
3	Silencer	608		RO

Set: 8.0

Doors: 10, 11, 13, 14

3	Hinge	TA2314	US32D	MK
1	Office Lock	SF 10G05 LL	US26D	SA
1	Cylinder	23-030	626	SC
1	Wall Stop	409	US32D	RO
1	Gasket	S44D Head & Jambs		PE

Set: 9.0

Doors: 12

3	Hinge	TA2314	US32D	MK
1	Office Lock	SF 10G05 LL	US26D	SA
1	Cylinder	23-030	626	SC
1	Surface Closer	8501	689	NO
1	Wall Stop	409	US32D	RO
1	Threshold	272A FHSL14 (verify conditions)		PE
1	Gasket	S44D Head & Jambs		PE

Set: 10.0

Doors: 6

3	Hinge	TA2314	US32D	MK
1	Privacy Lock	10U65 LL	US26D	SA
1	Surface Closer	8501	689	NO
1	Kick Plate	K1050 10" x 2LDW BEV CSK	US32D	RO

1	Wall Stop	409	US32D	RO
1	Gasket	S44D Head & Jambs		PE

Set: 11.0

Doors: 9

1	Existing Hardware	To Remain		OT

END OF SECTION 087100

ABBREVIATIONS

ABV	ABOVE
AC	ASPHALT CONCRETE
A/C	AIR CONDITIONING
ACP	ACOUSTICAL PANEL CEILING
AD	AREA DRAIN
ADJ	ADJUSTABLE
ADMIN	ADMINSTRATION
AF	ACCESS FLOORING
AFF	ABOVE FINISH FLOOR
AFG	ABOVE FINISH GRADE
AHU	AIR HANDLING UNIT
ALUM	ALUMINUM
ALT	ALTERNATE
AP	ACCESS PANEL
APPROX	APPROXIMATE
ARCH	ARCHITECT(URAL)
ASPH	ASPHALT
BCS	BABY CHANGING STATION
BD	BOARD
BLW	BELOW
BVL	BEVELED
BIT	BITUMINOUS
BKS	BACKSPLASH
BL	BUILDING LINE
BLDG	BUILDING
BM	BEAM
BOT	BOTTOM
BRG	BEARING
BS	BOTH SIDES
BTW	BETWEEN
C/C	CENTER TO CENTER
CAB	CABINET
CCC	COMMUNITY CONFERENCE CENTER
CIP	CAST IN PLACE
CJ	CONSTRUCTION JOINT
CJT	CONTROL JOINT
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
COMB	COMBINATION
CONC	CONCRETE
CONT	CONTINOUS
CONX	CONNECTION
CONST	CONSTRUCTION
CORR	CORRIDOR
COUNS	COUNSELOR
CPT	CARPET
CRM	CONCRETE ROCK MASONRY
CSWK	CASEWORK
CT	CERAMIC TILE
CTR	CENTER
CTSK	COUNTER SINK
DAR	DEPARTMENT OF AQUATIC RESOURCES
DB	DECIBEL
DBL	DOUBLE
DEFS	DIRECT APPLIED EXT FINISH SYSTEM
DF	DRINKING FOUNTAIN
DIAG	DIAGONAL
DIM	DIMENSION
DISP	DISPLAY
DIV	DIVISION
DOCARE	DIVISION OF CONSERVATION AND RESOURCES ENFORCEMENT
DN	DOWN
DP	DAMPPROOFING
DR	DOOR
DS	DOWNSPOUT
DTL	DETAIL
DRWG	DRAWING
E	EAST
EA	EACH
EF	EXHAUST FAN
EFG	ENTRANCE FOOT GRILLE
ENG	ENGINEERING DIVISION
EG	EXISTING GRADE
EGS	EXPOSED GRID SYSTEM
EJ	EXPANSION JOINT
ELEC	ELECTRICAL
ELEV	ELEVATION
ENCL	ENCLOSED
EQ	EQUAL
EQPM	EQUIPMENT
EWS	EYE WASH STATION
EXH	EXHAUST
EXP	EXPOSED
EXPS	EXPANSION
EXST	EXISTING
EXT	EXTERIOR
EXTD	EXTRUDED
FAB	FABRIC
FCO	FLOOR CLEAN OUT
FD	FLOOR DRAIN
FDN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FINISH FLOOR
FFE	FINISH FLOOR ELEVATION
FH	FIRE HYDRANT
FIRE PROT	FIRE PROTECTION
FIN	FINISH
FL	FLOOR
FLEX	FLEXIBLE
FLASH'G	FLASHING
FLRG	FLOORING
FOS	FACE OF STUDS
FOW	FACE OF WALL
FPRF	FIREPROOF
FR	FRAME
FRP	FIBERGLASS REINFORCED PLASTIC
FT	FOOT/FEET
GALV	GALVANIZED
GB	GRAB BAR
GL	GLASS
GR	GRADE
GSF	GROSS SQARE FOOTAGE
GWB	GYPSUM WALL BOARD
GYP	GYPSUM
HC	HANDICAPPED
HD	HEAD
HDW	HARDWARE
HDWD	HARDWOOD
HM	HOLLOW METAL
HNDRL	HANDRAIL
HORIZ	HORIZONTAL
HP	HIGH POINT
HR	HOUR
HGT	HEIGHT
HWH	HOT WATER HEATER
IAW	IN ACCORDANCE WITH
ID	INSIDE DIAMETER
IF	INSIDE FACE
IG	INSULATED GLASS
IN	INCHES
INSUL	INSULATION
INT	INTERIOR
ISO	ISOMETRIC
JAN	JANITOR
JT	JOINT
L	LEFT
LAM	LAMINATED
LAND	LANDSCAPE
LAV	LAVATORY
LH	LEFT HAND
LONG	LONGITUDINAL
LP	LOW POINT
LT	LIGHT
LTG	LIGHTING
LVR	LOUVER
MATL	MATERIAL
MAX	MAXIMUM
MECH	MECHANICAL
MEMB	MEMBRANE
MET	METAL
MET LKRS	METAL LOCKERS
MFR	MANUFACTURER
MH	MOUNTING HEIGHT
MIN	MINIMUM
MISC	MISCELLANEOUS
MLDG	MOLDING
MEZZ	MEZZANINE
MGR	MANAGER
MLWK	MILL WORK
MM	MILLIMETERS
MNT	MOUNT/MOUNTING
MO	MASONRY OPENING
MS	METAL STUD
MR	METAL RAILING
MTG	MEETING
MULL	MULLION
N	NORTH
N/A	NOT APPLICABLE
N/R	NON-RATED
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NRC	NOISE REDUCTION COEFFICIENT
NSF	NET SQUARE FOOTAGE
NTE	NOT TRUE ELEVATION
NTS	NOT TO SCALE
O/O	OUT TO OUT
OA	OVERALL
OC	ON CENTER
OCC	OCCUPANT
OD	OVERFLOW DRAIN
OF	OUTSIDE FACE
OFOI	OWNER FURNISHED OWNER INSTALLED
OH	OVERHEAD
OPNG	OPENING
OPP	OPPOSITE
OPH	OPPOSITE HAND
OS	ONE SIDE
OVHG	OVERHANG
OVS	OVERFLOW SCUPPER
PJ	PANEL JOINT
PL	PLATE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PLBG	PLUMBING
P.L.	PROPERTY LINE
PNL	PANEL
POC	POINT OF CONNECTION
POL	POLISHED
PR	PAIR
PREFAB	PREFABRICATED
PRG	PROGRAMMABLE SQUARE FOOTAGE
PROJ	PROJECT
PT	POINT
PNT	PAINT
PTD	PAPER TOWEL DISPENSER
PTN	PARTITION
PVMT	PAVEMENT
QTY	QUANTITY
R	RISER
RAD	RADIUS
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
RDL	ROOF DRAIN LEADER
REC	RECESSED
RECT	RECTANGULAR
REINF	REINFORCING
REMV	REMOVABLE
REQ'D	REQUIRED
REQMT(S)	REQUIREMEN(S)
REV	REVISION/REVISED
RH	RIGHT HAND
RM	ROOM
RO	ROUGH OPENING
ROD	ROOF OVERFLOW DRAIN
ROOF'G	ROOFING
RT	RIGHT
RV	RELIEF VENT
S	SOUTH
SAT	SATURATED
SCHED	SCHEDULE
SCWD	SOLID CORE WOOD DOOR
SECT	SECTION
SF	SQUARE FOOT/FEET
SH	SHELF/SHELVES
SHPD	STATE HISTORIC PRESERVATION DIVISION
SHT	SHEET
SHWR	SHOWER
SIM	SIMILAR
SJ	SEISMIC JOINT
SLNT	SEALANT
SOG	SLAB ON GRADE
SL	SLOPE OR SLOPED
SP	DIVISION OF STATE PARKS
SQ	SQUARE
SST	STAINLESS STEEL
STC	SOUND TRANSMISSION CLASS
STAG	STAGGERED
STD	STANDARD
STL	STEEL
STOR	STORAGE
STRUCT	STRUCTURAL
SUSP	SUSPENDED
SYS	SYSTEM
T	TRANSFORMER
TRD	TREAD
T&B	TOP AND BOTTOM
TEMP	TEMPERED
TEX	TEXTURED
THK	THICK
THRESH	THRESHOLD
TKB	TACKBOARD
TLT	TOILET
TOC	TOP OF CONCRETE
TOE	TOP OF EAVE
TOF	TOP OF FOOTING
TOM	TOP OF MASONRY
TOP	TOP OF PLATE
TOS	TOP OF STEEL
TOW	TOP OF WALL
TP	TOILET PARTITION
TPD	TOILET PAPER DISPENSER
TR	TRASH RECEPTACLE
TWF	THROUGH-WALL FLASHING
TYP	TYPICAL
UC	UNDERCOUNTER
UGND	UNDERGROUND
UNEX	UNEXCAVATED
UNFIN	UNFINISHED
UON	UNLESS OTHERWISE NOTED
UR	URINAL
VCT	VINYL COMPOSITION TILE
VENT	VENTILATION
VERT	VERTICAL
VEST	VESTIBULE
VTR	VENT THROUGH ROOF
W	WEST
W/	WITH
W/O	WITHOUT
WO	WHERE OCCURS
WC	WATER CLOSET
WD	WOOD
WDW	WINDOW
WH	WATER HEATER
WM	WIRE MESH
WPFG	WATERPROOFING
WS	WOOD STUDS
WWF	WELDED WIRE FABRIC
YD	YARD
TRTD	TREATED
TS	TUBE STEEL

DRAWING SYMBOLS

ENLARGED PLANS — ENLARGED PLAN OR SECTION DETAIL AREA; 1/A-2: DRAWING NUMBER LOCATION, SHEET NUMBER LOCATION

DETAILS — 1/A-2: DRAWING NUMBER LOCATION, SHEET NUMBER LOCATION

ELEVATIONS — 1/A-1: DRAWING NUMBER LOCATION, SHEET NUMBER LOCATION, DIRECTION OF ELEVATION

SECTIONS — 1/A-2: DRAWING NUMBER LOCATION, DIRECTION OF SECTION, SHEET NUMBER LOCATION

NORTH ARROW — NORTH, WEST, EAST, SOUTH

INTERIOR ELEVATION KEY — A, B, C, D; KEY TO INTER. ELEV.

MATCHLINE — MATCHLINE; SEE -/A- FOR PLAN CONTINUATION

COLUMN LINE — 2, B: NUMBERS IN ONE DIRECTION, LETTERS IN OTHER DIRECTION

CHANGE IN ELEVATION

WORK POINT, CONTROL POINT, DATUM POINT

REVISION CLOUD — 1A: REVISION NUMBER, REVISION SYMBOL

ROOM/SPACE IDENTIFICATION — REC ROOM; STONE; +9'-0": ROOM NAME, FLOOR OR CEILING FINISH, CEILING HEIGHT (ON REFLECTED CEILING PLAN)

DOOR TYPES — K: DOOR TYPE REFERENCE NUMBER

WINDOW TYPES — 1: WINDOW TYPE REFERENCE LETTER

SIGN TYPES — 1: SIGN TYPE REFERENCE NUMBER

PARTITION TYPES — A: PARTITION TYPE REFERENCE LETTER

KEYNOTE TYPES — A: KEYNOTE TYPE REFERENCE NUMBER

FINISH TYPES — PT-1: FINISH TYPE REFERENCE NUMBER

LIGHT POLE WITH LUMINAIRE

FLOOR OUTLET W/DATA

HELCO METER & MAIN DISCONNECT SWITCH

SAFETY DISCONNECT SWITCH

ELECTRICAL PANELBOARD

T — THERMOSTAT

HB — HOSE BIB

FE — FIRE EXTINGUISHER

CO — CLEAN OUT

EMERGENCY LIGHT, WALL MOUNTED

HAWAI'I COUNTY ENERGY CODE

2015 IECC, HAWAI'I REVISED STATUTES HRS 107-24 TO 28 & HAWAI'I ADMINISTRATIVE RULES HAR 3-181.1

COMMERCIAL BUILDING ENERGY EFFICIENCY STANDARDS

I CERTIFY THAT, TO THE BEST OF MY KNOWLEDGE, THIS PROJECTS DESIGN SUBSTANTIALLY CONFORMS TO THE BUILDING ENERGY EFFICIENCY STANDARDS PERTAINING TO THE **COMMERCIAL PROVISIONS FOR BUILDING ENVELOPE COMPONENTS (C402)** OF THE 2015 IECC WITH AMENDMENTS PER HAR 3 -181.1:

COMPLIANCE METHOD

- ☒ 2015 IECC as amended. Mandatory & Prescriptive
- ☐ 2015 IECC as amended. Mandatory & Total Building Performance
- ☐ ASHRAE Standard 90.1-2013. Mandatory & Prescriptive
- ☐ ASHRAE Standard 90.1-2013. Mandatory & Energy Cost Budget Method

INFORMATION IN CONSTRUCTION DOCUMENTS	Yes	N/A
Roof insulation R-value	☒	☐
Roof insulation type and location	☒	☐
Roof membrane solar reflectance and thermal emittance	☒	☐
Wall insulation R-value	☐	☒
Wall insulation type and location	☐	☒
Window SHGC	☒	☐
Window U-factor	☒	☐
Skylight SHGC	☒	☐
Skylight U-factor	☒	☐

NOTES

EXISTING EXTERIOR WALL TO REMAIN IS GROUTED CONCRETE MASONRY UNIT (CMU).

Signature:_____ Date:_____ Stamp, Date & Two-Part Statement

Name: FRED K. ERSKINE

Title : PRESIDENT

License No. : 10192

Project Name: HAWAII DISTRICT LAND OFFICE

Project TMK: (3) (3) 2-2-032: 011

REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
ADD-1	1A	ADDENDUM NO. 1	1 OF 6	JAN 2023	

FRED K. ERSKINE — LICENSED PROFESSIONAL ARCHITECT — No. 10192 — HAWAII, U.S.A.

THIS LICENSE EXPIRES APRIL 30, 2024

SIGNATURE

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND COMPLETION OF THIS PROJECT WILL BE UNDER MY OBSERVATION. OBSERVATION OF CONSTRUCTION AS DEFINED IN CHAPTER 16-115 OF THE HAWAII ADMINISTRATIVE RULES, DEPARTMENT OF COMMERCE AND CONSUMER AFFAIRS ENTITLED PROFESSIONAL ENGINEERS, ARCHITECTS, SURVEYORS AND LANDSCAPE ARCHITECTS).

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
ENGINEERING DIVISION

HAWAII DISTRICT LAND OFFICE
HILO, HAWAI'I

ABBREVIATIONS, DRAWING SYMBOLS, PLOT PLAN

DESIGNED: KK	SUBMITTED:
DRAWN: KA, TW, WL	DATE: NOVEMBER 2022
CHECKED: FE	SCALE: AS NOTED

APPROVED: _____ CHIEF ENGINEER _____ DATE

DRAWING NO. T-003

GENERAL NOTES

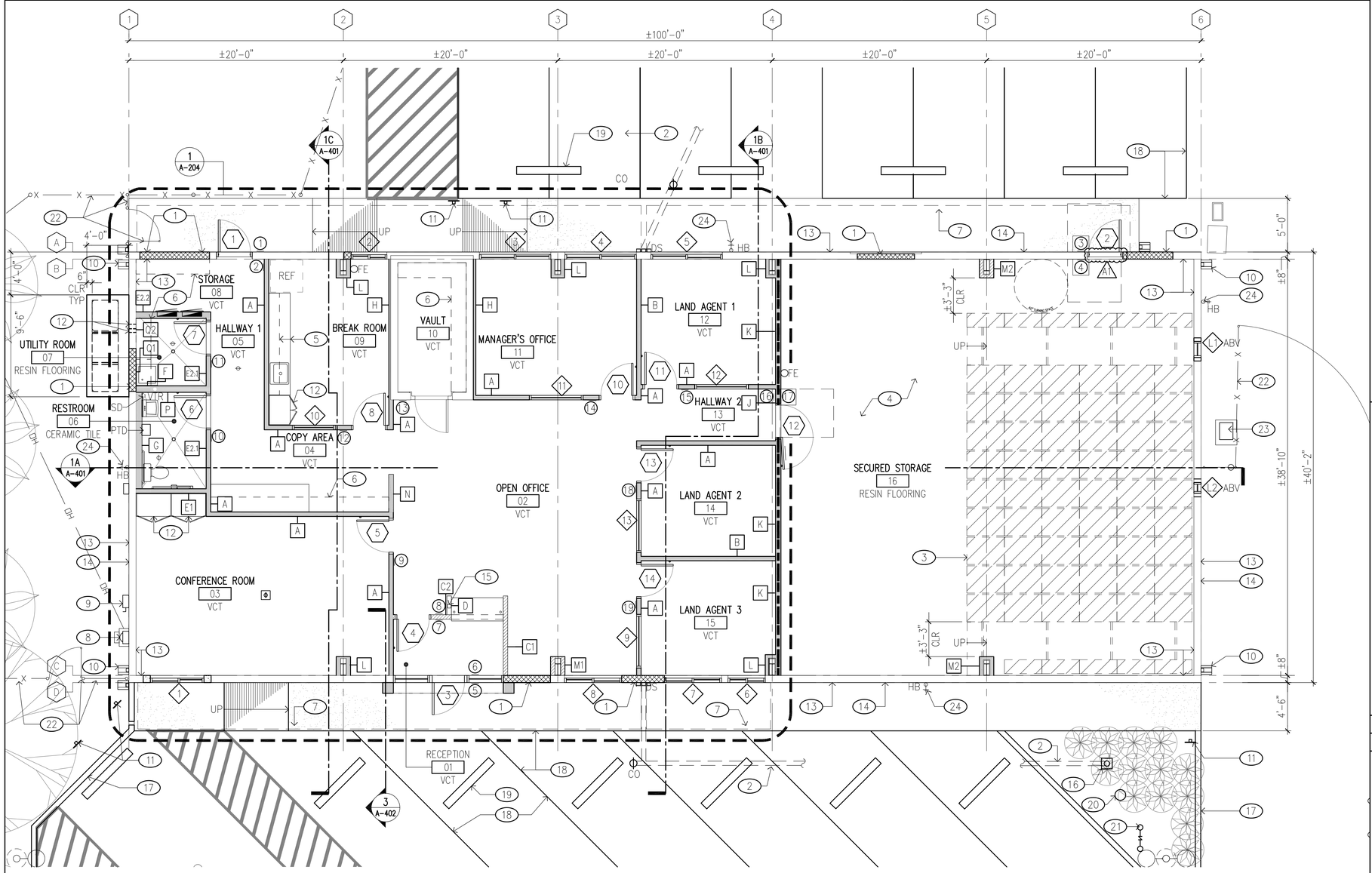
1. ALL WORK SHOWN IS NEW UNLESS OTHERWISE NOTED.
2. SEE SHEET T-002 FOR ADDITIONAL NOTES AND REQUIREMENTS.
3. SEE CIVIL, LANDSCAPE, MECHANICAL, STRUCTURAL & ELECTRICAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.
4. CONCRETE/ASPHALT PAVED WALKWAYS SHALL NOT EXCEED THE FOLLOWING SLOPES:
   -IN DIRECTION OF TRAVEL 1:20, UNLESS OTHERWISE NOTED.
   -CROSS SLOPE OF 1:50.
5. ALL NON-PAVED AREAS DAMAGED AS A RESULT OF NEW WORK SHALL BE RE-PLANTED W/GRASS TO MATCH EXST. ADJ. GRASS AREAS.
6. CONTRACTOR SHALL TONE FOR UTILITY LINES IN ALL AREAS OF THE SITE THAT WILL BE AFFECTED BY THE WORK.
7. ALL DIMENSIONS ARE TAKEN FROM THE FACE OF FIN. UNLESS OTHERWISE NOTED.
8. CONTRACTOR SHALL PAINT ALL UNFINISHED SURFACES, UNLESS OTHERWISE NOTED.
9. CONTRACTOR SHALL FIELD VERIFY THE LOCATION AND CONFIRM DIMENSIONS OF SHOP DRAWINGS PRIOR TO APPROVAL AND ORDERING OF HDS SYSTEM. CONTRACTOR SHALL PROVIDE ALL COMPONENTS TO SUPPORT THE HDS SYSTEM, INCLUDING (BUT NOT LIMITED TO) ANCHORS, BOLTS, RAILS, GROUT, POWER SUPPLY, J-BOXES, STRUCTURAL SUPPORT, ETC. CONTRACTOR IS RESPONSIBLE FOR THE PREPARATION, ASSEMBLY, CONNECTIONS, AND COMPLETE INSTALLATION OF THE HDS SYSTEM AT NO ADDITIONAL COST TO THE STATE.

LEGEND (THIS SHEET)

- DOOR TYPE, SEE A-601
- WINDOW TYPE, SEE A-601
- SIGN TYPE
- PARTITION TYPE, SEE A-403
- CONCRETE MASONRY UNIT INFILL
- FULL HEIGHT PARTITION, PAINT AS SPECIFIED
- PARTIAL HEIGHT PARTITION, PAINT AS SPECIFIED
- PARTIAL HEIGHT PARTITION, PAINT AS SPECIFIED, W/WOOD CAP
- 1-HR RATED PARTITION
- CO CLEAN OUT
- FLOOR DRAIN
- FLOOR POWER & DATA OUTLET
- DS DOWNSPOUT
- DS DOWNSPOUT W/SPLASH BLOCK
- HB HOSE BIB
- SITE SINAGE
- ADA SIGNAGE
- LAMP POST

KEYNOTES (THIS SHEET)

KEYNOTE NO.	
1	INFILL OPENING WITH CMU. MATCH EXST PATTERN & BLOCK SIZE.
2	DOWNSPOUT DRAIN PIPE TO LANDSCAPED AREAS. SEE CIVIL DRWG.
3	ADDITIVE BID NO. 3. AREA FOR ELECTRONIC HIGH DENSITY STORAGE SYSTEM, CFCI. SEE ELEC DRWG & SPECIFICATION.
4	LEVEL & SEAL EXST CONC FLR.
5	BASE & WALL HUNG CABINETS.
6	OPEN SHELVING.
7	METAL AWNING W/ GUTTER AND DOWNSPOUT ABOVE. CONNECT TO DOWNSPOUT DRAINPIPE.
8	HELCO METER & MAIN DISCONNECT SWITCH. SEE ELEC DRWG.
9	ADDITIVE BID NO. 1 – PV DISCONNECT SWITCH.
10	DOWNSPOUT W/ PRE-CAST CONC SPLASH BLOCK.
11	SITE SIGNAGE, SEE CIVIL DRWG.
12	FULL HEIGHT STORAGE. SEE DETAIL 4/A-703.
13	APPLY SEALER TO CMU WALL AS SCHEDULED.
14	PAINT WALLS AS SCHEDULED.
15	PARTIAL HT WALL SUPPORT.
16	DOWNSPOUT OVERFLOW STRUCTURE.
17	CONC CURB, SEE CIVIL DRWG.
18	PARKING MARKING, SEE CIVIL DRWG.
19	PRE-CAST CONC WHEEL STOP, TYP.
20	VALVE BOX, SEE CIVIL DRWG.
21	BACKFLOW PREVENTER, SEE CIVIL DRWG.
22	CHAIN LINK FENCE AND GATE.
23	GATE OPERATOR.
24	CORE CMU WALL FOR HOSE BIBB WATER LINE. PATCH AND REPAIR WALL. SEAL AROUND PENETRATION



1 REPAIR FLOOR PLAN
SCALE: 3/16" = 1'-0"

KEY TO INTER. ELEV.

SCALE: 3/16" = 1'-0"

REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
ADD-1	A1	ADDENDUM NO. 1	2 OF 7	JAN 2023	

FRED K. ERSKINE LICENSED PROFESSIONAL ARCHITECT No. 10192 HAWAII, U.S.A.

THIS LICENSE EXPIRES APRIL 30, 2024

SIGNATURE

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE OBSERVED BY ME OR MY DESIGNATED AGENT OF CONSTRUCTION AS DEFINED IN CHAPTER 16-115 OF THE HAWAII ADMINISTRATIVE RULES, DEPARTMENT OF COMMERCE AND CONSUMER AFFAIRS ENTITLED PROFESSIONAL ENGINEERS, ARCHITECTS, SURVEYORS AND LANDSCAPE ARCHITECTS).

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
ENGINEERING DIVISION

HAWAII DISTRICT LAND OFFICE
HILO, HAWAII

REPAIR FLOOR PLAN

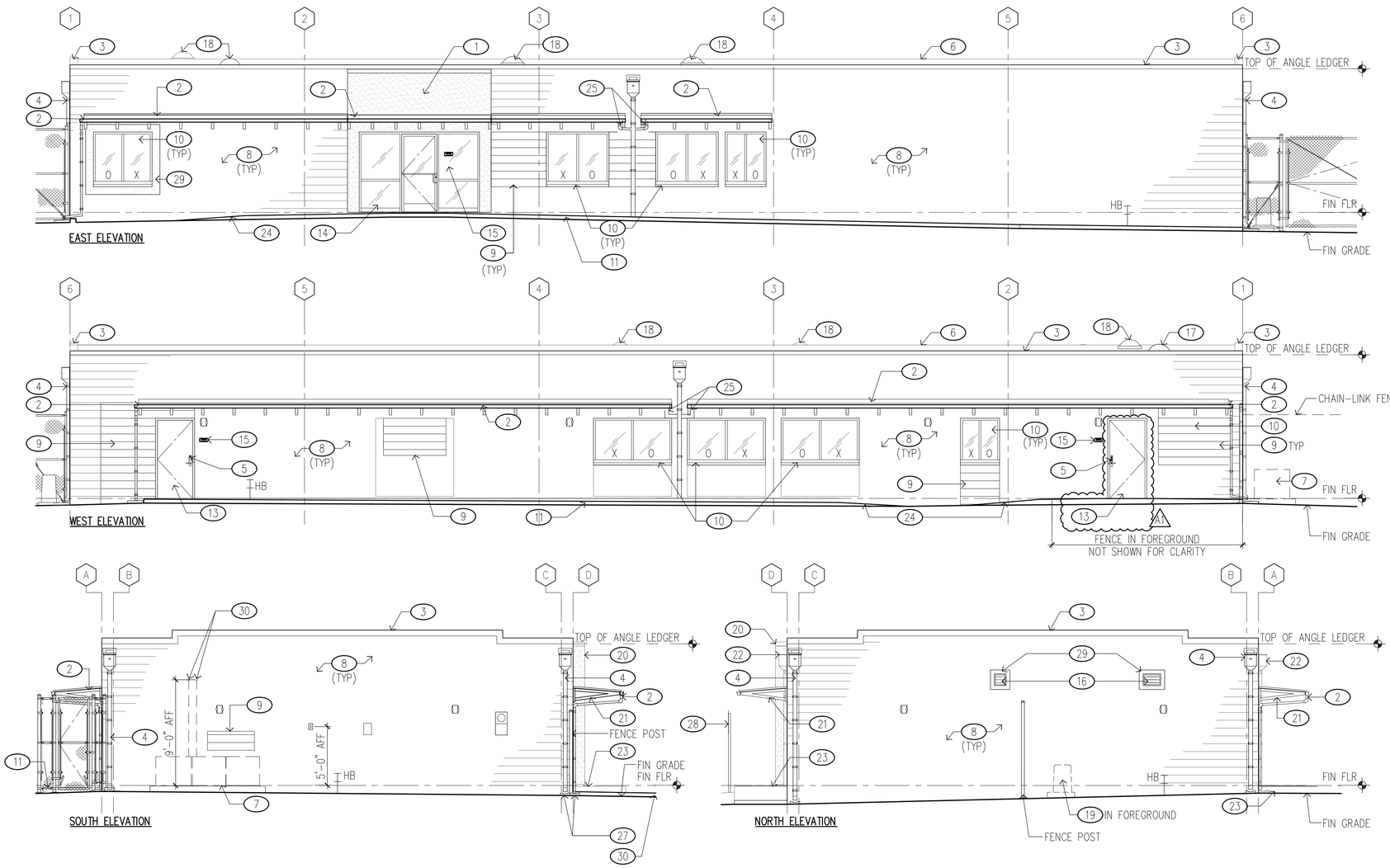
DESIGNED: KK	SUBMITTED:
DRAWN: KA, TW, WL	DATE: NOVEMBER 2022
CHECKED: FE	SCALE: AS NOTED
APPROVED:	DRAWING NO. A-201
CHIEF ENGINEER	DATE

GENERAL NOTES

1. ALL WORK SHOWN IS NEW UNLESS OTHERWISE NOTED.
2. SEE SHEET T-002 FOR ADDITIONAL NOTES AND REQUIREMENTS.
3. SEE CIVIL, LANDSCAPE, MECHANICAL, STRUCTURAL & ELECTRICAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.
4. CONCRETE/ASPHALT PAVED WALKWAYS SHALL NOT EXCEED THE FOLLOWING SLOPES:
   -IN DIRECTION OF TRAVEL 1:20, UNLESS OTHERWISE NOTED.
   -CROSS SLOPE OF 1:50.
5. ALL NON-PAVED AREAS DAMAGED AS A RESULT OF NEW WORK SHALL BE RE-PLANTED W/GRASS TO MATCH EXST. ADJ. GRASS AREAS.
6. CONTRACTOR SHALL TONE FOR UTILITY LINES IN ALL AREAS OF THE SITE THAT WILL BE AFFECTED BY THE WORK.
7. ALL DIMENSIONS ARE TAKEN FROM THE FACE OF FIN. UNLESS OTHERWISE NOTED.
8. CONTRACTOR SHALL PAINT ALL UNFINISHED SURFACES, UNLESS OTHERWISE NOTED.
9. ALL EXTERIOR CMU WALLS SHALL BE SEALED, PRIMED, AND PAINTED AS SPECIFIED.

LEGEND (THIS SHEET)

- PAINTED CMU
- DEFS FINISH
- WALL SCONE
- SAFETY DISCONNECT SWITCH
- TEL/DATA SWITCH
- HELCO METER
- X OPERABLE WINDOW PANEL
- O FIXED WINDOW PANEL



1 EXTERIOR ELEVATIONS
SCALE: 3/16" = 1'-0"

IECC 2015 NOTE:

WINDOW AREAS ARE ≤ 30% OF GROSS WALL AREAS

0 2' 4' 6' 8' 10 12'
SCALE: 3/16" = 1'-0"

KEYNOTES (THIS SHEET)

KEYNOTE NO.	
1	DEFS ENTRY, BUILD-OUT.
2	METAL AWNING WITH GUTTER & DOWNSPOUT.
3	PARAPET COPING.
4	METAL DOWNSPOUT & LEADERBOX.
5	KEYPAD LOCKSET.
6	ROOF RIDGE.
7	CONC EQUIPMENT PAD & MECH EQUIPMENT, SEE MECH DRWG.
8	EXST CMU WALL PRIME & PAINT AS SCHEDULED.
9	CMU INFILL, ALIGN WITH EXST GROUT LINES, PRIME & PAINT AS SCHEDULED.
10	WINDOW ASSEMBLY, TYP. SEE IECC 2015 NOTE FOR MORE INFORMATION.
11	CONC WALKWAY.
12	CONC CURB. SEE CIVIL DRWG.
13	FRP DOOR & FRAME. A1
14	STOREFRONT AS SCHEDULED.
15	ADA SIGNAGE.
16	OUTSIDE AIR INTAKE LOUVER.
17	GOOSENECK EXHAUST.
18	TUBULAR DAYLIGHTING DEVICE..
19	ELECTRONIC GATE & OPERATOR ON CONC PAD.
20	DEFS ENTRY BUILD-OUT BEYOND.
21	METAL AWNING BEYOND.
22	METAL DOWNSPORT & LEADER BEYOND.
23	CONC WALKWAY BEYOND.
24	CONC RAMP.
25	CONNECT AWNING DOWNSPOUT TO BUILDING DOWNSPOUT FOR DRAINAGE TO LANDSCAPE.
26	CONC HEADER, SEE CIVIL DRWG.
27	PRE-CAST CONC SPLASH BLOCK.
28	SITE SIGNAGE.
29	CAST IN PLACE CONCRETE FRAME, SEE STRUCT DRAWINGS.
30	CONC CURB, SEE CIVIL DRWG.
30	AC CONDENSATE LINES, PENETRATE ABOVE CEILING

REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
ADD-1	A1	ADDENDUM NO. 1	3 OF 6	JAN 2023	

F. FRED K. ERSKINE LICENSED PROFESSIONAL ARCHITECT No. 10192 HAWAII, U.S.A.

THIS LICENSE EXPIRES APRIL 30, 2024

SIGNATURE

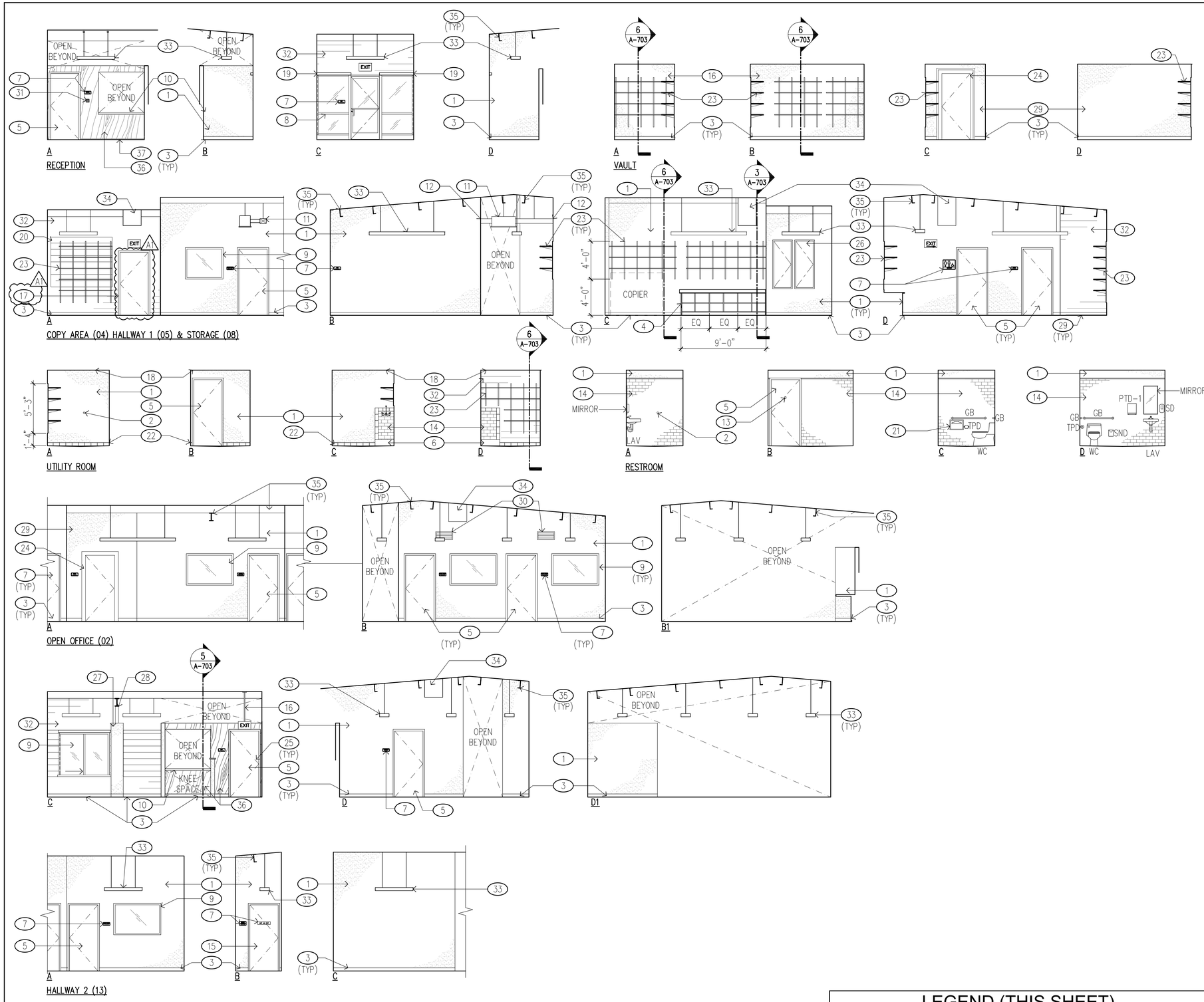
THIS WORK WAS PREPARED BY ME, OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION, (OBSERVATION OF CONSTRUCTION AS DEFINED IN CHAPTER 16-115 OF THE ADMINISTRATIVE RULES, DEPARTMENT OF COMMERCE AND CONSUMER AFFAIRS, ENTITLED PROFESSIONAL ENGINEERS, ARCHITECTS, SURVEYORS AND LANDSCAPE ARCHITECTS).

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
ENGINEERING DIVISION

HAWAII DISTRICT LAND OFFICE
HILO, HAWAI'I

EXTERIOR ELEVATIONS

DESIGNED: KK	SUBMITTED:
DRAWN: KA, TW, WL	DATE: NOVEMBER 2022
CHECKED: FE	SCALE: AS NOTED
APPROVED:	DRAWING NO. A-301
CHIEF ENGINEER	DATE



KEYNOTES (THIS SHEET)

KEYNOTE NO.	
1	PRIME AND PAINT GYP BD WALL. PT-4
2	DOOR STOP.
3	RUBBER BASE. RB-1
4	BUILT-IN COUNTERTOP, W/CUBBY STORAGE. PL-1 SS-1
5	DOOR AND FRAME, STAIN. ST-1
6	MOP SINK, SEE MECH DRWGS.
7	ADA SIGNAGE, TYP.
8	ALUMINUM STOREFRONT SYSTEM. TR-1
9	GLAZING AS SCHED, TYP.
10	TRANSACTION COUNTER TOP, W/ PLASTIC LAMINATE FACE. PL-1 SS-1
11	FAN COIL UNIT AND DUCT. SEE MECH DRWG.
12	CAULK & SEAL AROUND PENETRATIONS.
13	ROBE HOOK.
14	CERAMIC TILE WAINSCOT, RUNNING BOND. CT-2
15	FIRE RATED METAL DOOR AND FRAME. PRIME AND PAINT. PT-4
16	METAL ROD TO MOUNT EXIT SIGN.
17	FRP DOOR & FRAME. A1
18	PRIME AND PAINT GYP BD CEILING. PT-4
19	MANUAL ROLLER SHADE W/ CONTROL CHAIN.
20	CMU INFILL, SEAL WITH CLEAR MATTE COAT. SE-1
21	TOILET SEAT COVER DISPENSER.
22	CERAMIC TILE WALL BASE. CT-2
23	ADJUSTABLE SHELVING W/ SUPPORTS SPACED 16" O.C. AT STUDS. PL-1
24	PRIME AND PAINT METAL DOOR AND FRAME. PT-4
25	2X WOOD FINISH TRIM. ST-1
26	ELEC PANEL, SEE ELEC DRWG.
27	COLUMN FURRING. PRIME, PAINT, & INSTALL RUBBER BASE ALL SIDES. PT-4
28	EXISTING STEEL STRUCTURE TO REMAIN, PRIME AND PAINT. PT-3
29	PRIME AND PAINT CMU WALL. PT-4
30	SUPPLY AIR REGISTER, SEE MECH DRWG.
31	KEYPAD ACCESS.
32	CMU SEALER. SE-1
33	LIGHT FIXTURE. SEE ELEC DRWG.
34	TUBULAR DAY LIGHTING DEVICE.
35	EXST PURLIN/STRUCTURE TO REMAIN. INFILL W/GYP BD AND SEAL EDGES AT WALL PENETRATIONS. PRIME & PAINT. PT-3
36	PLASTIC LAMINATE FINISH. PL-1
37	3/4" METAL "T" REVEAL. PAINT SURFACE EXPOSED TO CONC W/ASPHALTIC COATING.

REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
ADD-1	A1	ADDENDUM NO. 1	4 OF 6	JAN 2023	

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
ENGINEERING DIVISION

HAWAII DISTRICT LAND OFFICE
HILO, HAWAI'I

INTERIOR ELEVATIONS

FRED K. ERSKINE
LICENSED PROFESSIONAL ARCHITECT
No. 10192
HAWAII, U.S.A.

THIS LICENSE EXPIRES APRIL 30, 2024

SIGNATURE

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND COMPLETED ON THIS PROJECT WILL BE UNDER MY OBSERVATION. OBSERVATION OF CONSTRUCTION AS DEFINED IN CHAPTER 16-115 OF THE HAWAII ADMINISTRATIVE RULES, DEPARTMENT OF COMMERCE AND CONSUMER AFFAIRS ENTITLED PROFESSIONAL ENGINEERS, ARCHITECTS, SURVEYORS AND LANDSCAPE ARCHITECTS).

DESIGNED: KK	SUBMITTED:
DRAWN: KA, TW, WL	DATE: NOVEMBER 2022
CHECKED: FE	SCALE: AS NOTED
APPROVED:	DRAWING NO. A-501
CHIEF ENGINEER	DATE

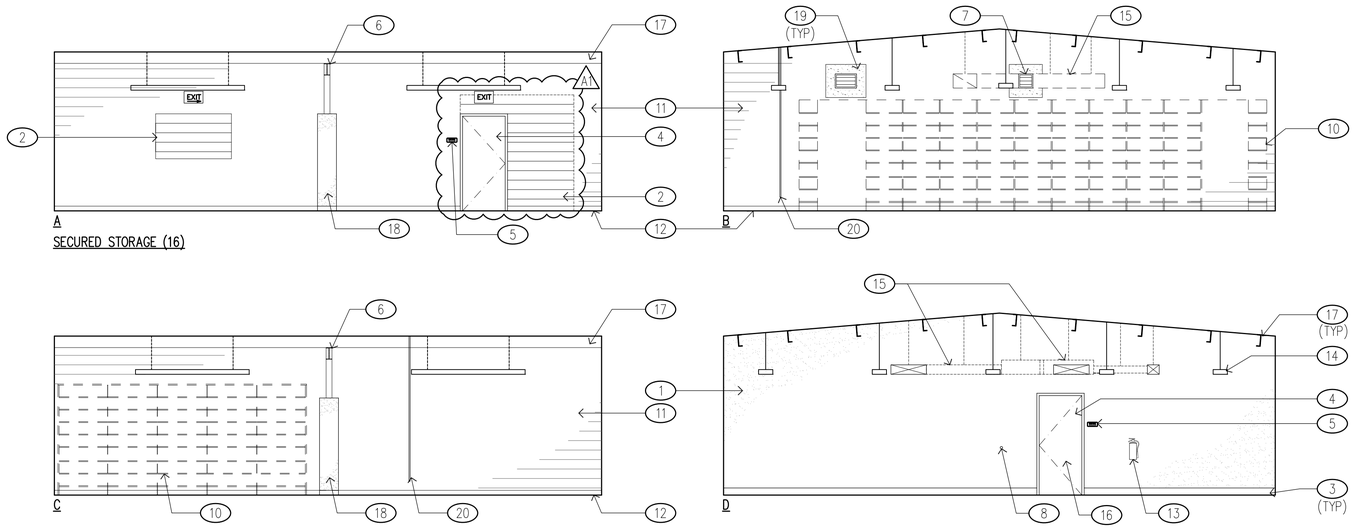
1 INTERIOR ELEVATIONS
SCALE: 3/16" = 1'-0"

NOTE:
SEE T-004 FOR STANDARD FIXTURE MOUNTING HEIGHTS

0 2' 4' 6' 8' 10 12'
SCALE: 3/16" = 1'-0"

LEGEND (THIS SHEET)

CMU WALL | GYP BD PARTITON | CERAMIC TILE WAINSCOT | PLAM PARTITION



1 INTERIOR ELEVATIONS
SCALE: 3/16" = 1'-0"

0 2' 4' 6' 8' 10 12'
SCALE: 3/16" = 1'-0"

KEYNOTE NO.	KEYNOTES (THIS SHEET)
1	PRIME AND PAINT GYP BD WALL. PT-1
2	CMU INFILL W/ CMU SEALER.
3	RUBBER BASE. RB-1
4	FRP DOOR & FRAME. A1
5	ADA SIGNAGE, TYP.
6	EXISTING STEEL BEAM. PRIME AND PAINT. PT-3
7	VENTILATION LOUVER, SEE MECH DRWGS. TR-1
8	WALL STOP.
9	CAST IN PLACE CONC FRAME, SEE STRUCT DRWG.
10	ADD ALTERNATE NO.3. AREA FOR ELECTRONIC HDS SYSTEM, SEE ELEC DRWG AND SPECIFICATIONS.
11	CMU SEALER.
12	EPOXY RESIN ROLL-UP BASE SE-2
13	FIRE EXTINGUISHER, SEE MECH DRWG.
14	LIGHT FIXTURE, SEE ELEC DRWGS.
15	HVAC DUCTS & FCU, SEE MECH DRWGS.
16	FIRE RATED DOOR AND FRAME PRIME AND PAINT. PT-4
17	EXST PURLIN TO REMAIN. PRIME & PAINT. PT-3
18	COLUMN FURRING. PRIME, PAINT, AND INSTALL RUBBER BASE ALL SIDES. PT-4 RB-1
19	CAST IN PLACE CONCRETE FRAME, SEE STRUCT DRAWINGS.
20	SURFACE MOUNTED WATERLINE TO HOSE BIBB.

LEGEND (THIS SHEET)

CMU WALL

GYP BD PARTITON

REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
ADD-1	A1	ADDENDUM NO. 1	5 OF 6	JAN 2023	

FRED K. ERSKINE
LICENSED PROFESSIONAL ARCHITECT
No. 10192
HAWAII, U.S.A.

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SIGNATURE

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STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
ENGINEERING DIVISION

HAWAII DISTRICT LAND OFFICE
HILO, HAWAI'I

INTERIOR ELEVATIONS

DESIGNED: KK	SUBMITTED:
DRAWN: KA, TW, WL	DATE: NOVEMBER 2022
CHECKED: FE	SCALE: AS NOTED
APPROVED:	DRAWING NO. A-503
CHIEF ENGINEER / DATE	

DOOR SCHEDULE

OPENING MARK	ROOM NO	ROOM NAME	DR TYPE	DOOR SIZE W (IN)	DOOR SIZE H (IN)	DOOR SIZE THK (IN)	CONSTRUCTION/FINISH MAT (NOTE 1)	CONSTRUCTION/FINISH GLAZ/LVR (NOTE 2)	CONSTRUCTION/FINISH FRAME (NOTE 3)	CONSTRUCTION/FINISH FINISH (NOTE 4)	FIRE RATING (MIN)	HDWR GROUP (NOTE 5)	DOOR DETAILS – SEE SHT A-701 (UON) HEAD	JAMB	THRESH	LOUVER	REMARKS
1	05	HALLWAY 1	B	36	80	1.75	FRP	--	2/FRP	DK BRN	--	3	2	2	6	--	KEYPAD ACCESS, HDWR BY MFR
2	16	SECURED STORAGE	B	36	80	1.75	FRP	--	2 /FRP	DK BRN	--	3	2	2	6	--	KEYPAD ACCESS, HDWR BY MFR
3	01	RECEPTION	C	36	80	1.75	AL	GL-1	--	DK BZ	--	2	2/A-702	6/A-702	14/A-702	--	HDWR BY MFR
4	02	OPEN OFFICE	A	36	84	1.75	SC WD	--	1 / WD	ST	--	4	4	3	7	--	KEYPAD ACCESS
5	03	CONFERENCE ROOM	A	36	84	1.75	SC WD	--	1 / WD	ST	--	5	3	3	7	--	
6	06	RESTROOM	A	36	84	1.75	SC WD	--	1 / WD	ST	--	10	3	3	8	--	KICKPLATE
7	07	UTILITY ROOM	A	36	84	1.75	SC WD	--	1 / WD	ST	--	7	3	3	9	--	KICKPLATE
8	09	BREAK ROOM	A	36	84	1.75	SC WD	--	1 / WD	ST	--	6	3	3	7	--	
9	--	NOT USED	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
10	11	MANAGER'S OFFICE	A	36	84	1.75	SC WD	--	1 / WD	ST	--	8	3	3	7	--	
11	12	LAND AGENT 1	A	36	84	1.75	SC WD	--	1 / WD	ST	--	8	3	3	7	--	
12	13	HALLWAY 2	A	36	84	1.75	HM	--	1 / MET	PT	45	9	1	5	9	--	
13	14	LAND AGENT 2	A	36	84	1.75	SC WD	--	1 / WD	ST	--	8	3	3	7	--	
14	15	LAND AGENT 3	A	36	84	1.75	SC WD	--	1 / WD	ST	--	8	3	3	7	--	

NOTES:

1. SIZES INDICATED ARE FOR DESIGN REFERENCE. CONTRACTOR SHALL VERIFY ON-SITE CONDITION DIMENSIONS TO DETERMINE ACTUAL SIZES TO BE ORDERED. CONFIRM FINAL SIZES W/ ARCHITECT BEFORE ORDERING.
2. PROVIDE ADAAG COMPLIANT HARDWARE ON ALL DOORS. OPERATING DEVICES ON DOORS SHALL HAVE A SHAPE THAT IS EASY TO GRASP W/ ONE HAND & DOES NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING, OR TWISTING OF THE WRIST TO OPERATE.
3. ALL GLASS IN DOORS SHALL BE SAFETY DESIGNATED.
4. REFER TO EXTERIOR & INTERIOR ELEVATIONS FOR DOOR TYPE CONFIGURATIONS.

DOOR NOTES

ABBREVIATIONS

--	NONE OR NOT APPLICABLE
DR NO.	DOOR NUMBER, SEE FLOOR PLAN SHEET A-201
TYPE	SEE DOOR TYPES SCHEDULE
W	DOOR WIDTH
H	DOOR HEIGHT
THK	DOOR PANEL THICKNESS
MAT	MATERIAL (SEE DOOR NOTE 1)
GLZ	GLAZING TYPE (SEE DOOR NOTE 2)
LVR	LOUVER TYPE (SEE DOOR NOTE 2)
FRAME	DOOR FRAME (SEE DOOR NOTE 3)
HDWE	HARDWARE 'GROUP NO.' (SEE DOOR NOTE 4)
EXST	EXISTING (SEE REMARKS FOR WORK)

1. DOOR CONSTRUCTION

AL	ALUMINUM
HM	HOLLOW METAL
SC WD	SOLID CORE WOOD
FRP	FIBERGLASS REINFORCED PLASTIC

2. GLAZING/LOUVER CONSTRUCTION

GL-X	SEE SPEC SECTION 08800
INSUL	INSULATED GLAZING
LAM	LAMINATED GLASS
LE	LOW 'E' ENERGY GLAZING
TG	TEMPERED GLASS

3. FRAME CONSTRUCTION

AL	ALUMINUM
MTL	METAL
WD	WOOD
FRP	FIBERGLASS REINFORCED PLASTIC

4. FINISHES

DK BZ	DARK BRONZE
DK BRN	DARK BROWN
PT	PAINTED
ST	STAINED

5. HDWR GROUP NO. (SEE HDWR GROUP NO.)

6. SEE PRODUCT DATA PACKAGE FOR DOOR & FRAME DETAILS

IECC 2015 NOTE:

FOR EXTERIOR FRP DOOR
U-FACTOR = 0.61 MAXIMUM

FOR STOREFRONT ENTRY DOORS:
U-FACTOR = 0.63 MAXIMUM

FOR EXTERIOR GLAZING:
U-FACTOR = 0.28
SHGC = 0.27

FOR EXTERIOR WINDOWS:
PROJECTION FACTOR = 0.98 (WEST) & 0.85 (EAST)

WINDOW & LOUVER SCHEDULE

WINDOW NO.	TYPE	WINDOW SIZE W (INCH)	WINDOW SIZE H (INCH)	SILL HT (INCH)	CONSTRUCTION/FINISH GLAZ/LVR (NOTE 1)	CONSTRUCTION/FINISH FRAME (NOTE 2)	CONSTRUCTION/FINISH FINISH (NOTE 3)	FIRE RATING (MIN)	WINDOW DETAILS (SEE SHT A-701) HEAD	JAMB	MULLION	SILL	REMARKS
1	B	60	56	26	GL-2	AL	DK BZ	--	3 (SIM)	7 (SIM)	7 (SIM)	11 (SIM)	INSECT SCREEN, SEE NOTES 4 & 5
2	B	40	48	34	GL-2	AL	DK BZ	--	3	7	7	11	INSECT SCREEN, SEE NOTE 4
3	B	80	48	34	GL-2	AL	DK BZ	--	3	7	7	11	INSECT SCREEN, SEE NOTE 4
4	B	80	48	34	GL-2	AL	DK BZ	--	3	7	7	11	INSECT SCREEN, SEE NOTE 4
5	B	80	48	34	GL-2	AL	DK BZ	--	3	7	7	11	INSECT SCREEN, SEE NOTE 4
6	B	42	56	26	GL-2	AL	DK BZ	--	3	7	7	11	INSECT SCREEN, SEE NOTE 4
7	B	64	56	26	GL-2	AL	DK BZ	--	3	7	7	11	INSECT SCREEN, SEE NOTE 4
8	B	64	56	26	GL-2	AL	DK BZ	--	3	7	7	11	INSECT SCREEN, SEE NOTE 4
9	A	60	40	46	GL-3	WD	ST	--	15	15	--	15	
10	A	60	40	46	GL-3	WD	ST	--	15	15	--	15	
11	A	60	40	46	GL-3	WD	ST	--	15	15	--	15	
12	A	60	40	46	GL-3	WD	ST	--	15	15	--	15	
13	A	60	40	46	GL-3	WD	ST	--	15	15	--	15	
L1	L	18	12	96	AL	AL	DK BZ	--	4	8	--	12	INSECT SCREEN & BIRD SCREEN, SEE NOTE 5
L2	L	12	12	96	AL	AL	DK BZ	--	4	8	--	12	INSECT SCREEN & BIRD SCREEN, SEE NOTE 5

NOTES:

1. PROVIDE EXTERIOR FIBERGLASS SAFETY SCREENS (TYP. FOR ALL EXTERIOR WINDOWS).
2. SEE EXTERIOR & INTERIOR ELEVATIONS FOR WINDOW TYPE CONFIGURATIONS.
3. SIZES INDICATED ARE FOR DESIGN REFERENCE. CONTRACTOR SHALL VERIFY ON-SITE CONDITION DIMENSIONS TO DETERMINE ACTUAL SIZES TO BE ORDERED. CONFIRM FINAL SIZES W/ ARCHITECT BEFORE ORDERING.
4. REFER TO EXTERIOR ELEVATIONS ON SHEET A-301 FOR THE LOCATION OF OPERABLE SLIDING PANEL AT EXTERIOR WINDOWS.
5. SEE STRUCTURAL DRAWINGS FOR CAST IN PLACE CONC FRAME.

WINDOW NOTES

ABBREVIATIONS

--	NONE OR NOT APPLICABLE
WINDOW NO.	WINDOW NUMBER, SEE FLOOR PLAN SHEET A-201
TYPE	SEE WINDOW TYPES SCHEDULE
W	WINDOW WIDTH
H	WINDOW HEIGHT
GLZ	GLAZING TYPE (SEE WINDOW NOTE 1)
LVR	LOUVER TYPE (SEE WINDOW NOTE 1)

1. GLAZING/LOUVER CONSTRUCTION SEE SPEC SECTION 08800.

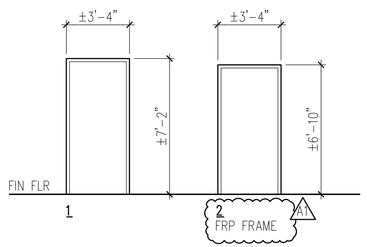
AL	ALUMINUM
INSUL	INSULATED GLAZING
LAM	LAMINATED GLASS
LE	LOW 'E' ENERGY GLAZING
TG	TEMPERED GLASS

2. FRAME CONSTRUCTION

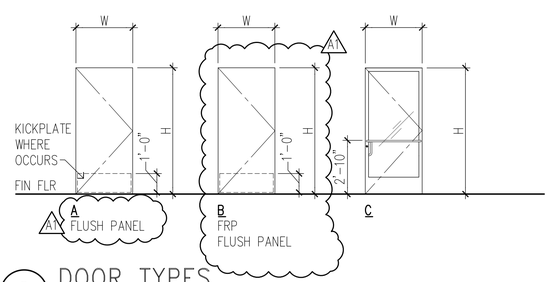
AL	ALUMINUM
WD	WOOD

3. FINISHES

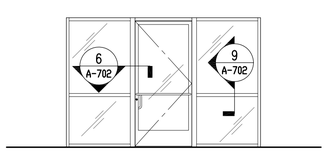
DK AN	DARK ANODIZED
PT	PAINTED



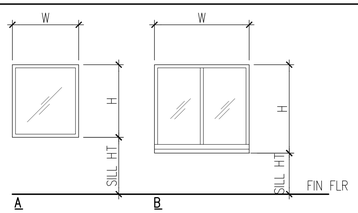
1 DOOR FRAME TYPES
SCALE: NOT TO SCALE



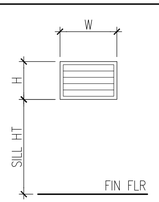
2 DOOR TYPES
SCALE: NOT TO SCALE



3 STOREFRONT
SCALE: NOT TO SCALE



4 WINDOW TYPES
SCALE: NOT TO SCALE



5 LOUVER TYPE
SCALE: NOT TO SCALE

REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
ADD-1	A1	ADDENDUM NO. 1	6 OF 6	JAN 2023	

FRED K. ERSKINE
LICENSED PROFESSIONAL ARCHITECT
No. 10192
HAWAII, U.S.A.

THIS LICENSE EXPIRES APRIL 30, 2024

SIGNATURE

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STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
ENGINEERING DIVISION

HAWAII DISTRICT LAND OFFICE
HILO, HAWAI'I

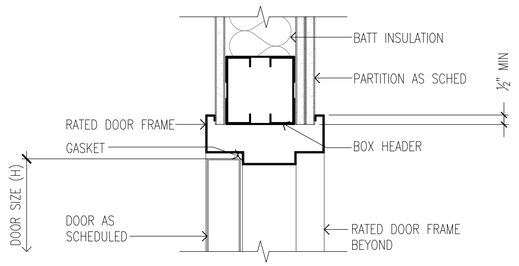
DOOR AND WINDOW SCHEDULE

DESIGNED: KK	SUBMITTED:
DRAWN: KA, TW, WL	DATE: NOVEMBER 2022
CHECKED: FE	SCALE: AS NOTED

APPROVED:

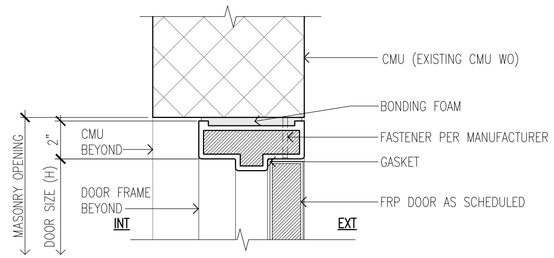
CHIEF ENGINEER — DATE

DRAWING NO. A-601



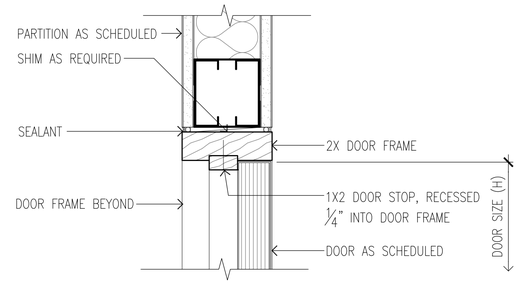
1 RATED WALL HEAD DETAIL

SCALE: 3"=1'-0" GA FILE NO. WP 1021



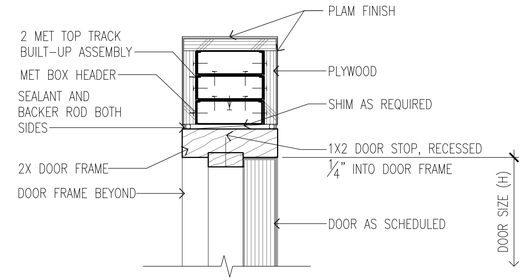
2 EXT FRP DOOR HEAD DETAIL (JAMB SIM)

SCALE: 3"=1'-0"



3 TYP INT DOOR HEAD DETAIL (JAMB SIM)

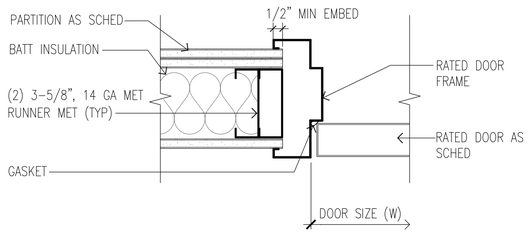
SCALE: 3"=1'-0"



4 RECEPTION DOOR HEAD DETAIL

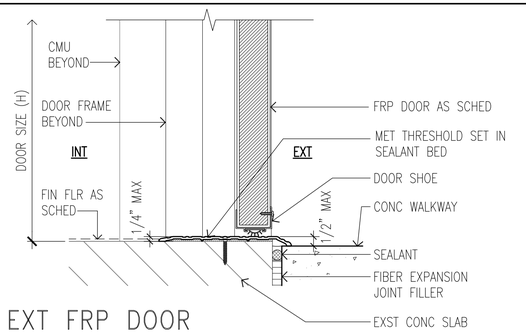
SCALE: 3"=1'-0"

0 3" 6" 9" 1'
SCALE: 3" = 1'-0"



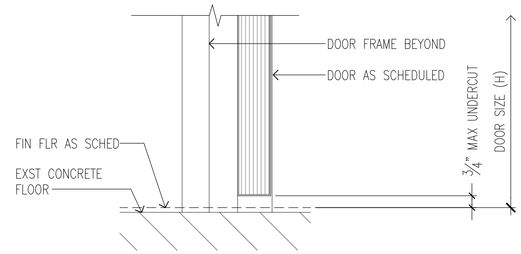
5 RATED WALL JAMB DETAIL

SCALE: 3"=1'-0" GA FILE NO. WP 1021



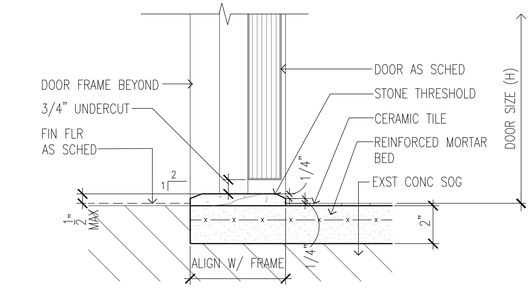
6 EXT FRP DOOR THRESHOLD DETAIL

SCALE: 3"=1'-0"



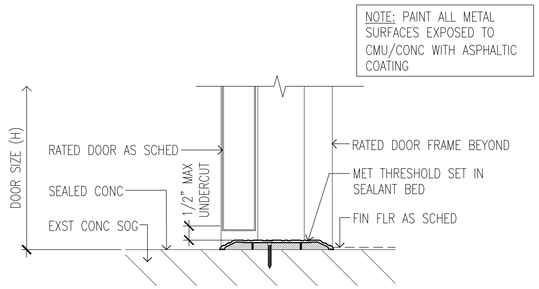
7 VINYL TILE TO VINYL TILE THRESHOLD DETAIL

SCALE: 3"=1'-0"



8 VINYL TILE TO CERAMIC TILE THRESHOLD DETAIL

SCALE: 3" = 1'-0"



9 VINYL TO RESIN FLOOR THRESHOLD DETAIL

SCALE: 3" = 1'-0" UL DESIGN 419

REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
ADD-1	A1	ADDENDUM NO. 1	7 OF 6	JAN 2023	

FRED K. ERSKINE
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No. 10192
HAWAII, U.S.A.

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STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
ENGINEERING DIVISION

HAWAII DISTRICT LAND OFFICE
HILO, HAWAI'I

DOOR DETAILS

DESIGNED: KK	SUBMITTED:
DRAWN: KA, TW, WL	DATE: NOVEMBER 2022
CHECKED: FE	SCALE: AS NOTED

APPROVED: _____ _____
CHIEF ENGINEER DATE

DRAWING NO. A-701

System Weight Summary Report

Total media weight	130,233.60	lbs	
Total equipment weight	28,342.26	lbs	
Total picklist weight	0.00	lbs	
Total aisle weight (15 lbs/ft²)	3,687.39	lbs	
Total system (media, equipment and aisle) weight	162,263.25	lbs	
Total Foot-Print area	808.47	ft²	
Total weight load per square foot (avg unit load)	200.70	lbs/ft²	
Maximum Deflection Allowed is:	L/480		
Weight load (line load*) under front rail	32,754.31	lbs	974.86 lbs/ft
Weight load (line load*) under rail no. 2	45,344.22	lbs	1,349.57 lbs/ft
Weight load (line load*) under rail no. 3	44,918.25	lbs	1,336.89 lbs/ft
Weight load (line load*) under back rail	33,808.87	lbs	1,006.25 lbs/ft

*Line Load calculations do not include weight of adjacent static shelving, floor, ramp, or aisles.

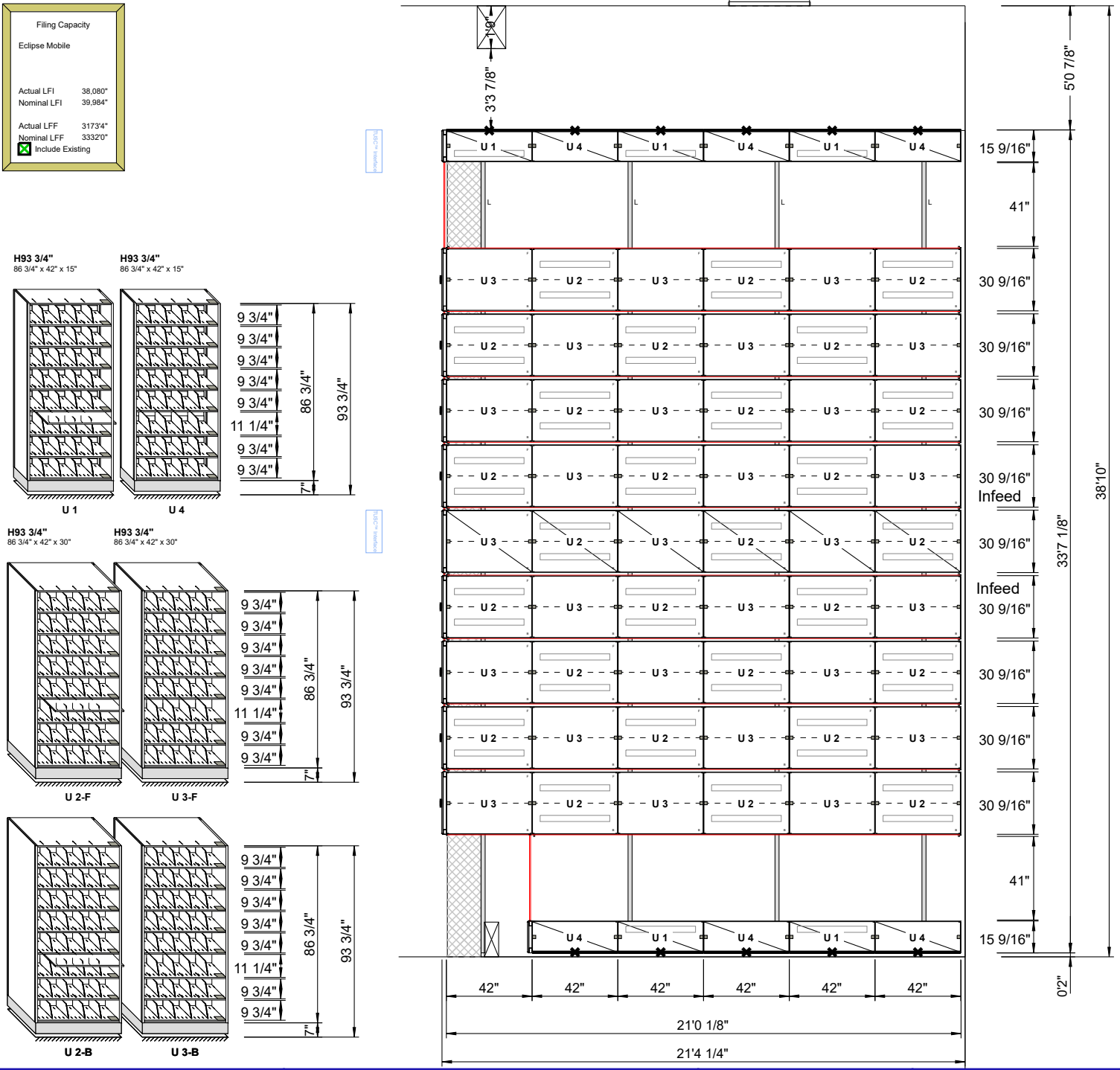
Note: This drawing is being provided for basis of design for cost purposes only. Per Section 10676, Motorized Mobile Storage Shelving, acceptable manufacturers are: 1) Spacesaver Corporation, 2) Aurora Storage Products, Inc, 3) Kordex System, 4) Montel, 5) or approved equal.

Filing Capacity

Eclipse Mobile

Actual LFI 38,080"
Nominal LFI 39,984"

Actual LFF 3173'4"
Nominal LFF 3332'0"
☒ Include Existing



H93 3/4" 86 3/4" x 42" x 15"

H93 3/4" 86 3/4" x 42" x 30"

SYSTEMCENTER.
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The Systemcenter, Inc.
1738 Silva Street
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www.systemcenter.com

Project Name: DLNR Hilo			Project #: 19825	APPROVAL This drawing Approved By:
Salesperson: MORI,TIFFANY	Scale 1:70	Rev level:	Drawn by: Mark Nelson	Dated
			Date Printed: 11/05/2019	

Note: This drawing is being provided for basis of design for cost purposes only. Per Section 10676, Motorized Mobile Storage Shelving, acceptable manufacturers are: 1) Spacesaver Corporation, 2) Aurora Storage Products, Inc, 3) Kordex System, 4) Montel, 5) or approved equal.

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Project Name: DLNR Hilo			Project #: 19825	APPROVAL This drawing Approved By:
Salesperson: MORI,TIFFANY	Scale 1:30	Rev level:	Drawn by: Mark Nelson	Dated
			Date Printed: 11/05/2019	

SIGN-IN SHEET
SITE VISIT

Job Number: E00BH30A Date: December 12, 2022 Time: 9 a.m.
Job Title: HAWAII DISTRICT LAND OFFICE
HILO, HAWAII

	NAME	AGENCY	PHONE NO.	EMAIL ADDRESS
1	Gordon Heit	DLNR LAND		gordon.c.heit@hawaii.gov
2	BRYON JEREMIAH	DIEDE CONST	808-777-6290	coryhafele@diedeconstruction.com
3	Adam Long	Sakoda Constr.	808 990 2055	adam@sakodaconstruction.com
4	Ramsey Hirayama	Edward Hirayama Elec	808-315-3373	ramsey@hirayamaelectric.com
5	Glen Mukai	Site Engineering	808 841 8883	
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Agenda

Pre –Bid Conference

JOB NO. E00BH30A
HAWAII DISTRICT LAND OFFICE
HILO, HAWAII

Date: December 14, 2022 @ 10 a.m.

Location: Teleconference

1. Introductions

2. Brief Description of Project and Scope

The work shall generally consist of sitework and demolition, landscape, work off-site or in the Public Right-of-way, building structure, enclosure and interior construction, interior finishes, abatement work, built-in casework and adjustable shelving, plumbing, HVAC, electrical, data/communications, and lighting.

There are 3 additive bid items and 1 deductive bid item under this project. Please refer to the Construction Drawings for other items to be included in the bids.

Bid Opening is on January 12, 2023 at 2:00 p.m. Bids will be opened on the HIePRO.

Last day to turn in RFI's is December 28, 2022 at 2:00 p.m.

3. Questions

Note: All answers and comments are unofficial, the official answers will be distributed in an Addendum.

SIGN-IN SHEET
PRE-BID CONFERENCE

Job Number: E00BH30A Date: December 14, 2022 Time: 10 a.m.
Job Title: HAWAII DISTRICT LAND OFFICE
HILO, HAWAII

	NAME	AGENCY	PHONE NO.	EMAIL ADDRESS
1	Melissa Agbayani	DLNR ENG	(808) 587-0233	Melissa.m.agbayani@hawaii.gov
2	Kevin Anderson	Erskine Architects, Inc.	(951) 378-2468	kevin@erskinearchitects.com
3	Lizi Olson	Jas. W. Glover, Ltd.	(808) 478-2514	lizio@gloverltd.com
4	Adam Long	Sakoda Construction, LLC	(808) 990-2055	adam@sakodaconstruction.com
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