

State of Hawaii
DEPARTMENT OF AGRICULTURE
AGRICULTURAL RESOURCE MANAGEMENT DIVISION
Honolulu, Hawaii

ADDENDUM NO 3

TO

KAMUELA VACUUM COOLING PLANT
DEMOLITION OF INACTIVE VACUUM COOLING WAREHOUSE

October 10, 2022

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.

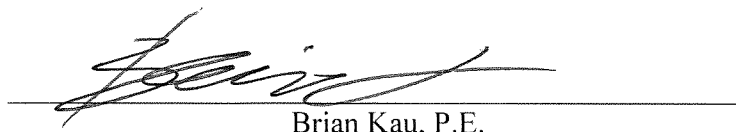
CONTRACT SPECIFICATIONS

1. Delete Notice to Bidders in its entirety (pages iii – vii) and replace with the attached Addendum No 3 Notice to Bidders.
2. Delete Proposal in its entirety and replace with the attached Addendum No 3 Proposal

DRAWINGS

1. Delete Sheet T-001 in its entirety and replace with attached Addendum No 3, Sheet T-001.
2. Delete Sheet C-001 in its entirety and replace with attached Addendum No 3, Sheet C-001.
3. Delete Sheet C-101 in its entirety and replace with attached Addendum No 3, Sheet C-101.
4. Add the following Sheets E-001, E-101, E-201, attached.

State of Hawaii
DEPARTMENT OF AGRICULTURE
AGRICULTURAL RESOURCE MANAGEMENT DIVISION
Honolulu, Hawaii



Brian Kau, P.E.
Administrator and Chief Engineer
Agricultural Resource Management Division

NOTICE TO BIDDERS
(Chapter 103D, HRS)

COMPETITIVE BIDS for Job No. DOAH26B Kamuela Vacuum Cooling Plant, Demolition of Inactive Vacuum Cooling Warehouse, Lalamilo Ahupua'a, South Kohala, Hawai'i Island, shall be submitted to the Department of Agriculture, Agricultural Resource Management 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 Waimea (Kamuela), Big Island, Hawaii.

The work shall generally consist of demolition and removal of a vacuum cooling warehouse that is no longer in use. As a bid additive, this work will include work on the exterior of the active warehouse to remove/dispose of hazardous materials, seal warehouse openings, and painting.

Due to the nature of work contemplated, bidders must possess a valid State Contractor's license, classification "A" or "B". In addition, contractor or its subcontractor must possess any additional State Contractor Specialty "C" license to perform the work, including specialty license C-19. ~~Alternatively, bidders are not required to possess a classification "A" or "B" State Contractor's license if they or their subcontractors possess the specific State Contractor Specialty "C" licenses necessary to perform the work.~~

A voluntary pre-bid telephone conference will be held, on Wednesday, September 7, 2022, at 10:30 am. If you are interested in joining the telephone conference, please contact Janice Fujimoto at Janice.fujimoto@hawaii.gov, or by phone at 808-973-9473, by 12:00 pm on Tuesday, September 6, 2022 for the telephone conference dial-in number.

All interested parties are invited to attend a site visit. Additional information about the site visit will be provided during the pre-bid conference. The site visit will be held at the project site, on Thursday, September 8, 2022, at 10:30 am. There will be a second site visit held on Thursday, **October 13, 2022**, at 10:30 AM. If you are interested in attending this second site visit, please contact Janice Fujimoto at Janice.fujimoto@hawaii.gov, or by phone at 808-973-9473, by 12:00 pm on Wednesday, **October 12, 2022**.

The estimated cost of construction is **\$400,000.00**.

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.

The Hawai'i Department of Agriculture does not discriminate on the basis of race, color, sex, national origin, age, or disability, or any other class as protected under applicable federal or state law, in administration of its programs, or activities, and, the Department of Agriculture does not intimidate or retaliate against any individual or group because they have exercised their rights to participate in actions protected, or oppose action prohibited, by 40 C.F.R. Parts 5 and 7, or for the purpose of interfering with such rights.

If you have any questions about this notice or any of the Department's non-discrimination programs, policies, or procedures, you may contact:

Morris Atta, Acting Non-Discrimination Coordinator
Hawai'i Department of Agriculture
1428 S. King Street, Honolulu, HI 96814,
(808) 973-9560
hdoa.titlevi@hawaii.gov

If you believe that you have been discriminated against with respect to a Department of Agriculture program or activity, you may contact the Non-Discrimination Coordinator identified above.

To request translation, interpretation, modifications, accommodations, or other auxiliary aids or services for this RFP, contact the HDOA at (808)973 9473 or email janice.fujimoto@hawaii.gov. Please allow sufficient time for HDOA to meet accommodation requests.

‘A‘ole nō ho‘okae ka ‘Oihana Mahi ‘Ai o ka Moku‘āina o Hawai‘i i kō ke kanaka lāhui, ‘ili, keka, ‘āina, kūlana makahiki, kīnānā a mea ‘oko‘a a‘e i ka‘a ma lalo o nā kānāwai pekelala a moku‘āina, ma ka ho‘okele ‘ana i kona mau papahana, pāhana, a ‘a‘ole ho‘i ho‘omaka‘u, ‘imi mākaia, a ‘āke‘ake‘a ka ‘Oihana Mahi ‘Ai i kekahi kanaka a hui paha ma muli o kō lākou pono, hihia ‘ana i kekahi mau hana ho‘opale ‘ia a i ‘ole kū‘ē kekahi mau hana ho‘okapu ‘ia ma lalo o nā Mahele 5 a me ka 7 o ka 40 Papa Kānāwai Pekelala (C.F.R.).

Inā he mau nīnau kāu no kēia ho‘olaha, a i ‘ole no kekahi o kō ka ‘Oihana Mahi ‘Ai mau polokalamu, kulekele, a ka‘ina hana i pili i ka ho‘okae, e ho‘ohui ‘oe me:

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(808) 973-9560
hdoa.titlevi@hawaii.gov

Inā he mana‘o no kou ho‘okae ‘ia i loko kekahi pō‘aiapili no kekahi pāhana a hanana o ka ‘Oihana Mahi ‘Ai, e ho‘ohui nō ‘oe me ka Ho‘olauka‘i Hihia Ho‘okae i ‘ōlelo ‘ia i luna a‘e nei.

No ke noi ‘ana i kōkua māhele a unuhi ‘ōlelo, a me nā lawelawe a kōkua keu o kēlā ‘ano kēia ‘ano no kēia RFP, e kelepona aku i ke ke‘ena o ka Luna Ho‘okele o ka HDOA ma (808)973 9473 a i ‘ole e leka uila aku iā janice.fujimoto@hawaii.gov. E ‘ae mai i wā e ho‘olako aku ai ka HDOA i ia mau lawelawe ‘ana.

Ti Departamento ti Agrikultura ti Hawai‘i ket saan a mangidumduma maibasar iti puli, kolor, seks, nasion a nagtaudan, edad, wenna disabilidad, wenna aniaman a dadduma a klase a protektado iti masakupan ti

maipakat a linteg ti pederal weno estado, iti panangimaton kadagiti programa, weno aktibidadna, ken, ti Departamento ti Agrikultura ket saan a mamutbuteng weno bumales maibusor iti siasinoman nga individual weno grupo gapu ta inusarda dagiti karbenganda a makipaset kadagiti tignay a maprotektaran, weno sinumra ti aramid a maiparit, babaen ti 40 C.F.R. Paset 5 ken 7, weno para iti panggep a panangsinga kadagita a karbengan.

Nu addaanka iti aniaman a saludsod maipapan iti daytoy nga abiso weno aniaman a programa, pagalagadan, weno wagas ti saan a panangidumduma ti Departamento, mabalinmo a kontaken ti:

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Nu patiem a naidumdumaka mainaig iti programa weno aktibidad ti Departamento ti Agrikultura, mabalinmo a kontaken ti Tagakoordina iti Saan a Panangidumduma a nadakamat iti ngato.

Tapno agkiddaw iti panagipatarus, interpretasion, modipikasion, akomodasion, weno dadduma pay a pangtulong a tulong weno serbisio para iti daytoy nga RFP, kontaken ti Opisina ti Mangidadaulo iti HDOA iti (808)973 9473 weno ag-email iti janice.fujimoto@hawaii.gov. Maidawat a palubusam ti umdas a tiempo para iti HDOA tapno matun-oyna dagiti kiddaw nga akomodasion.

ພະແນກກະສິກໍາຂອງລັດຮາວາຍບໍ່ເລືອກຈໍາແນກບົນພື້ນຖານດ້ານເຊື້ອຊາດ, ສີເຜິ້ວ, ເພດ, ຊາດກໍາເນີດ, ອາຍຸ ຫຼື ຄວາມພິການ ຫຼື ກຸ່ມຄົນອື່ນໆ ທີ່ຖືກປົກປ້ອງພາຍໃຕ້ກົດໝາຍລັດຖະບານ ຫຼື ລັດທີ່ກ່ຽວຂ້ອງ, ໃນການບໍລິຫານໂຄງການ ຫຼື ກິດຈະກຳຕ່າງໆ ແລະ, ພະແນກກະສິກໍາບໍ່ໄດ້ຂໍ້ມູນ ຫຼື ຕອບໂຕ້ຕໍ່ບຸກຄົນ ຫຼື ກຸ່ມຄົນໃດໜຶ່ງ ເພາະວ່າພວກເຂົາໄດ້ໃຊ້ສິດທິຂອງເຂົາເຈົ້າໃນການມີສ່ວນຮ່ວມໃນການກະທຳທີ່ໄດ້ຮັບການຄຸ້ມຄອງ ຫຼື ຄັດຄ້ານການກະທຳທີ່ຖືກຫ້າມ, ໂດຍ 40 CFR ພາກ 5 ແລະ 7 ຫຼື ເພື່ອຈຸດປະສົງໃນການແຈ້ງເລື່ອງສິດທິດັ່ງກ່າວ.

ຖ້າຫາກທ່ານມີຄໍາຖາມໃດໆກ່ຽວກັບແຈ້ງການສະບັບນີ້ ຫຼື ໂຄງການ, ນະໂຍບາຍ ຫຼື ຂັ້ນຕອນທີ່ບໍ່ມີການຈໍາແນກຂອງພະແນກ, ທ່ານສາມາດຕິດຕໍ່ຫາ:

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ຖ້າທ່ານເຊື່ອວ່າທ່ານໄດ້ຖືກຈໍາແນກກ່ຽວກັບໂຄງການ ຫຼື ກິດຈະກຳຂອງກະຊວງກະສິກໍາ, ທ່ານສາມາດຕິດຕໍ່ຫາ ຜູ້ປະສານງານການບໍ່ຈໍາແນກ ທີ່ລະບຸຢູ່ຂ້າງເທິງ.

ເພື່ອຂໍການແບບ, ການຕີຄວາມ, ການດັດແປງ, ການ ອໍາ ນວຍຄວາມສະດວກ ຫຼື ເຄື່ອງຊ່ວຍ ຫຼື ການຊ່ວຍເຫຼືອບໍລິການເສີມອື່ນໆ ສໍາລັບ RFP ນີ້, ຕິດຕໍ່ຫ້ອງການ HDOA ຂອງປະທານ ທີ່ (808)973 9473 ຫຼື ສົ່ງອີເມວຫາ janice.fujimoto@hawaii.gov. ກະລຸນາອະນຸຍາດໃຫ້ມີເວລາພຽງພໍ ສໍາລັບ HDOA ເພື່ອຕອບສະ ໜອງຄໍາຮ້ອງຂໍທີ່ພັກ.

Hawai'i 農業部在其管理的計劃或活動中，不會基於種族、膚色、性別、國籍、年齡或殘障，或任何其他受適用聯邦或州法律保護的類別而進行歧視行

或任何其他受適用聯邦或州法律保護的類別而進行歧視行為，並且農業部不因任何個人或團體依據 40 C.F.R. 第5部份和第7部份行使其權利進行受保護活動或反對禁止的行為，或以干擾其權利為目的而恐嚇或報復他們。

如果您對本通告或本部門的任何無歧視計劃、政策或程序有任何疑問，您可以聯絡：

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1428 S. King Street, Honolulu, HI 96814,
(808) 973-9560
hdoa.titlevi@hawaii.gov

如果您認為您在參與農業部計劃或活動中受到歧視，請聯絡上述指明的無歧視協調員。

如需與本RFP相關的翻譯、口譯、修改、住宿或其他輔助設施與服務，請致電(808) (808)973 9473 或發送電子郵件至 janice.fujimoto@hawaii.gov 聯絡HDOA主席辦公室。請允許HDOA足夠的時間來滿足住宿要求。

Ang Kagawaran ng Agrikultura ng Hawai'i ay hindi nagtatangi batay sa lahi, kulay, kasarian, bansang pinagmulan, edad, o kapansanan, o anumang iba pang klase na protektado sa ilalim ng naaangkop na batas ng pederal o estado, sa pangangasiwa ng mga programa, o aktibidad nito, at, ang Kagawaran ng Agrikultura ay hindi nananakot o gumaganti laban sa sinumang indibidwal o grupo dahil ginamit nila ang kanilang mga karapatan na lumahok sa mga pagkilos na protektado, o tutulan ang ipinagbabawal na pagkilos, ng 40 C.F.R. Bahagi 5 at 7, o para sa hangarin na makagambala sa naturang mga karapatan.

Kung mayroon kang anumang mga katanungan tungkol sa abisong ito o alinman sa mga programa, patakaran, o pamamaraan sa hindi pandiskrimina ng Kagawaran, maaari kang makipag-ugnayan sa:

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(808) 973-9560
hdoa.titlevi@hawaii.gov

Kung naniniwala kang nakaranas ka ng pandiskrimina patungkol sa isang programa o aktibidad ng Kagawaran ng Agrikultura, maaari kang makipag-ugnayan sa Tagakoordina ng Hindi Pandiskrimina na tinukoy sa itaas.

Upang humiling ng pagsasalin, interpretasyon, pagbabago, akomodasyon, o iba pang mga pantulong na tulong o serbisyo para sa RFP na ito, makipag-ugnayan sa Opisina ng Tagapangulo ng HDOA sa (808)973 9473 o mag-email sa janice.fujimoto@hawaii.gov. Mangyaring maglaan ng sapat na oras para matugunan ng HDOA ang mga kahilingan sa akomodasyon.

กรมวิชาการเกษตรแห่งฮาวายไม่เลือกปฏิบัติบนพื้นฐานของเชื้อชาติ สีผิว เพศ ชชาติกำเนิด อายุ หรือความทุพพลภาพ หรือกลุ่มอื่นใดที่ได้รับการคุ้มครองภายใต้กฎหมายของรัฐบาลกลางหรือรัฐที่เกี่ยวข้อง

ในการบริหารโครงการหรือกิจกรรมต่าง ๆ และกรมวิชาการเกษตรไม่ได้ข่มขู่หรือตอบโต้บุคคลหรือกลุ่มใด ๆ

เนื่องจากได้ใช้สิทธิในการมีส่วนร่วมในการกระทำที่ได้รับการคุ้มครองหรือคัดค้านการกระทำที่ต้องห้ามโดย 40 C.F.R. ตอนที่ 5 และ 7, หรือเพื่อวัตถุประสงค์ในการแทรกแซงสิทธิดังกล่าว

หากคุณมีคำถามใดๆ เกี่ยวกับประกาศนี้หรือของโครงการการไม่เลือกปฏิบัติของกรม นโยบาย หรือขั้นตอนต่าง ๆ สามารถติดต่อได้ที่:

Hawai'i Department of Agriculture
1428 S. King Street, Honolulu, HI 96814,
(808) 973-9560
hdoa.titlevi@hawaii.gov

หากเชื่อว่า คุณถูกเลือกปฏิบัติในส่วนที่เกี่ยวกับโครงการหรือกิจกรรมของกรมวิชาการเกษตร

คุณอาจติดต่อผู้ประสานงานการไม่เลือกปฏิบัติที่ระบุไว้ข้างต้น

หากต้องการขอการแปล สามภาษา การปรับเปลี่ยน ที่พัก หรือความช่วยเหลือหรือบริการสำหรับ RFP นี้

โปรดติดต่อสำนักงาน HDOA ของประธานที่ (808)973 9473 หรืออีเมล janice.fujimoto@hawaii.gov.

โปรดใช้เวลาสำหรับ HDOA ในการดำเนินการตามคำขอที่พัก

P R O P O S A L

FOR

DEPARTMENT OF AGRICULTURE
AGRICULTURAL RESOURCE MANAGEMENT DIVISION
State of Hawaii

Job No. DOAH26B
Kamuela Vacuum Cooling Plant,
Demolition of Inactive Vacuum Cooling Warehouse
Lalamilo Ahupua'a, South Kohala, Hawai'i Island

_____, 2022

Chief Engineer
Agricultural Resource Management Division
Department of Agriculture
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 demolish an inactive vacuum cooling warehouse, handle/dispose of hazardous material, and related work 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. DOAH26B
Kamuela Vacuum Cooling Plant,
Demolition of Inactive Vacuum Cooling Warehouse
Lalamilo Ahupua'a, South Kohala, Hawai'i Island

on file in the office of the Agricultural Resource Management Division for the TOTAL BASE BID (Items 1 to 8) of:

_____ Dollars (\$ _____)

and will fully complete all work under this contract within 180 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.

PROPOSAL
Kamuela Vacuum Cooling Plant,
Demolition of Inactive Vacuum Cooling Warehouse

BASE BID

Item No.	Estimated Quantity	Unit	Description	Unit Price	Total
1.		LS	Mobilization/Demobilization Not to exceed 10% of the total base bid price.	LS	\$ _____
2.		LS	Temporary Erosion Control (inclusive, but not limited to, NPDES permit requirements, roadway cleaning, and stabilized construction entrance)		\$ _____
3.		LS	Furnishing and paying for all labor, tools, equipment, and materials necessary for demolition, removal and disposal, not covered by Items 4 – 7 below, in accordance with the project plans and specifications, in place complete	LS	\$ _____
4.		LS	Furnishing and paying for all labor, tools, equipment, and materials necessary for removal and disposal of asbestos-containing materials, inclusive of required submittals, decontamination enclosure systems, in accordance with the project plans and specifications, in place complete	LS	\$ _____
5.		LS	Furnishing and paying for all labor, tools, and materials necessary for surface preparation and removal of lead-containing and lead-based paints, inclusive of TCLP testing of debris, in accordance with project plans and specifications, in place complete	LS	\$ _____
6.		LS	Furnishing and paying for all labor, tools, equipment, and materials necessary for handling, storage, transport and disposal of lead-containing and lead-based paint waste determined as hazardous	LS	\$ _____

			waste by TCLP testing to an approved EPA hazardous waste disposal site, in accordance with project plans and specifications, in place complete		
7.		LS	Furnishing and paying for all labor, tools, and materials necessary for surface preparation, removal, and disposal of mercury-containing fluorescent light tubes and light switches, in accordance with project plans and specifications, in place complete	LS	\$ _____
8.		LS	Disconnect and remove electrical lines serving inactive warehouse/shed including receptacles on outside loading dock. Provide new transformer and panel in active warehouse; trenching, pavement/concrete repair and six (6) new surface mounted receptacles at loading dock from active warehouse; incidental related work in place and complete.	LS	\$ _____
			Total – BASE BID (Items 1-8)		\$ _____

ADDITIVE ALTERNATE 1 – ACTIVE WAREHOUSE

Item No.	Estimated Quantity	Unit	Description	Unit Price	Total
9.	40	SF	Furnishing and paying for all labor, tools, and materials necessary patch and repair existing holes, cracks, penetrations, and gaps in metal siding.	\$ _____	\$ _____
10.		LS	Furnishing and paying for all labor, tools, and materials necessary to paint the entire building exterior wall surfaces including but not limited to siding, framing, trims, flashing, doors, bollards, and louvers.		\$ _____

11.		LS	Furnishing and paying for all labor, tools, and materials necessary for complete exterior surface preparation and removal of lead-containing and lead-based paints, in accordance with project plans and specifications		\$ _____
12.		LS	Furnishing and paying for all sampling, shipping, and laboratory analytical fees for TCLP testing of debris generated from exterior paint removal, in accordance with project plans and specifications		\$ _____
13.		LS	Furnishing and paying for all labor, tools, equipment, and materials necessary for handling, storage, transport and disposal of exterior lead-containing and lead-based paint waste determined as hazardous waste by TCLP testing to an approved EPA hazardous waste disposal site, in accordance with project plans and specifications		\$ _____
			Total – ADDITIVE ALTERNATE 1 (Items 9-13)		\$ _____

RECAPITULATION

Total Base Bid (Items 1 to 8) \$ _____

Additive Alternate No. 1 (Items 9 to 13) \$ _____

TOTAL SUM BID (Items 1 to 13) \$ _____

RECYCLED PRODUCTS PREFERENCE

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

<u>DESCRIPTION</u>	<u>RECYCLED PRODUCT COST</u>	<u>NONRECYCLED PRODUCT COST</u>
_____	\$ _____	\$ _____
_____	\$ _____	\$ _____
_____	\$ _____	\$ _____
_____	\$ _____	\$ _____

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 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 DLIR pursuant to HAR § 12-301 and § 12-30-4.
 - e. The Certification 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 preference 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 of 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 (Items 1 to 7) selected by the Department of Agriculture.

It is understood and agreed that the Department of Agriculture 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 Department of Agriculture to hold all bids received for a period of sixty (60) 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 proposals are opened and read, 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 FIVE HUNDRED AND NO/100 (\$500.00) 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 Department of Agriculture 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 Agricultural Resource Management Division, by recording the date of receipt of the respective addenda in the space provided below:

<u>Addendum</u>	<u>Date Received</u>	<u>Addendum</u>	<u>Date Received</u>
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 State 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 State.

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

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 _____

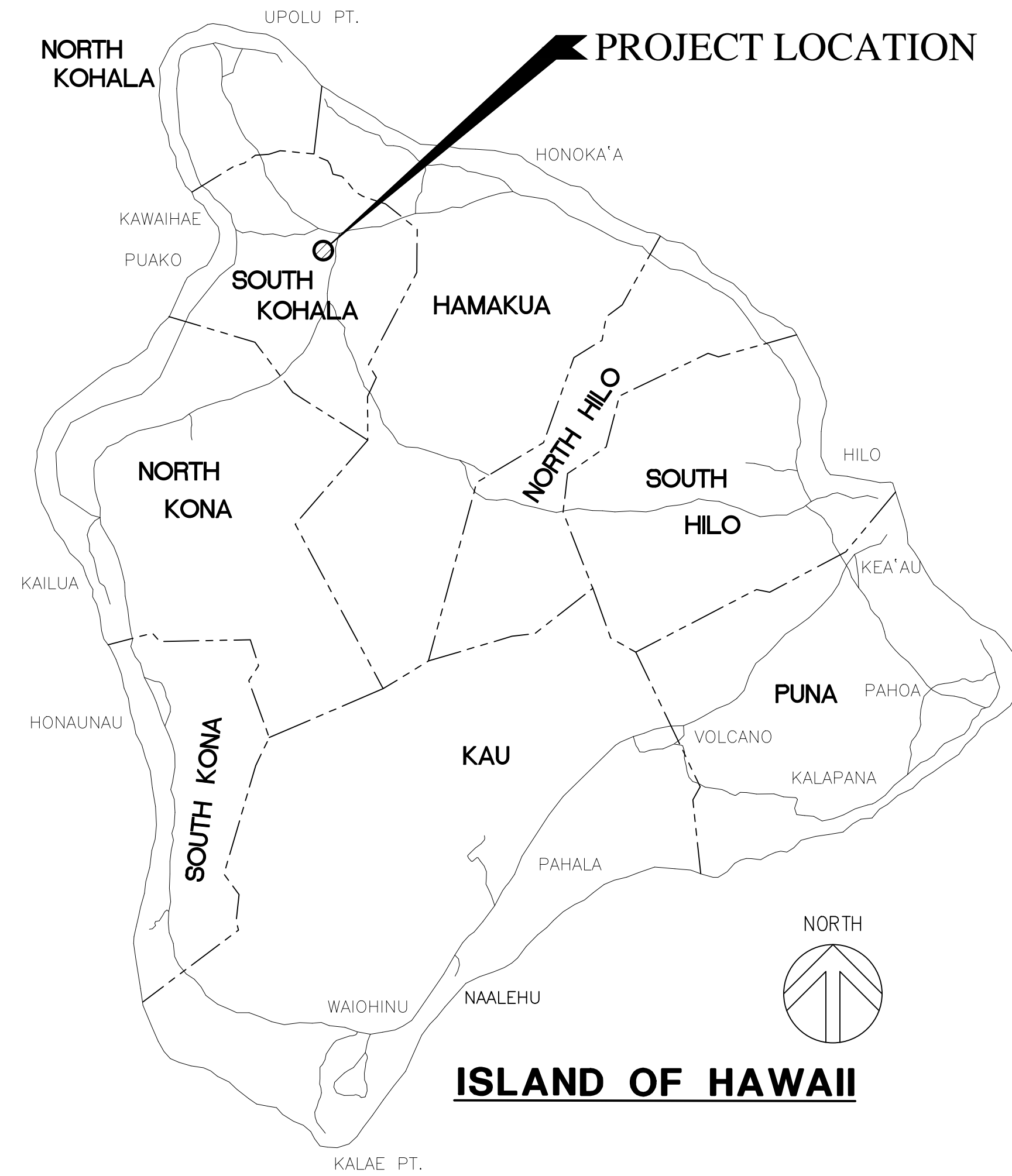
Telephone No. _____

E-Mail Address _____

NOTES:

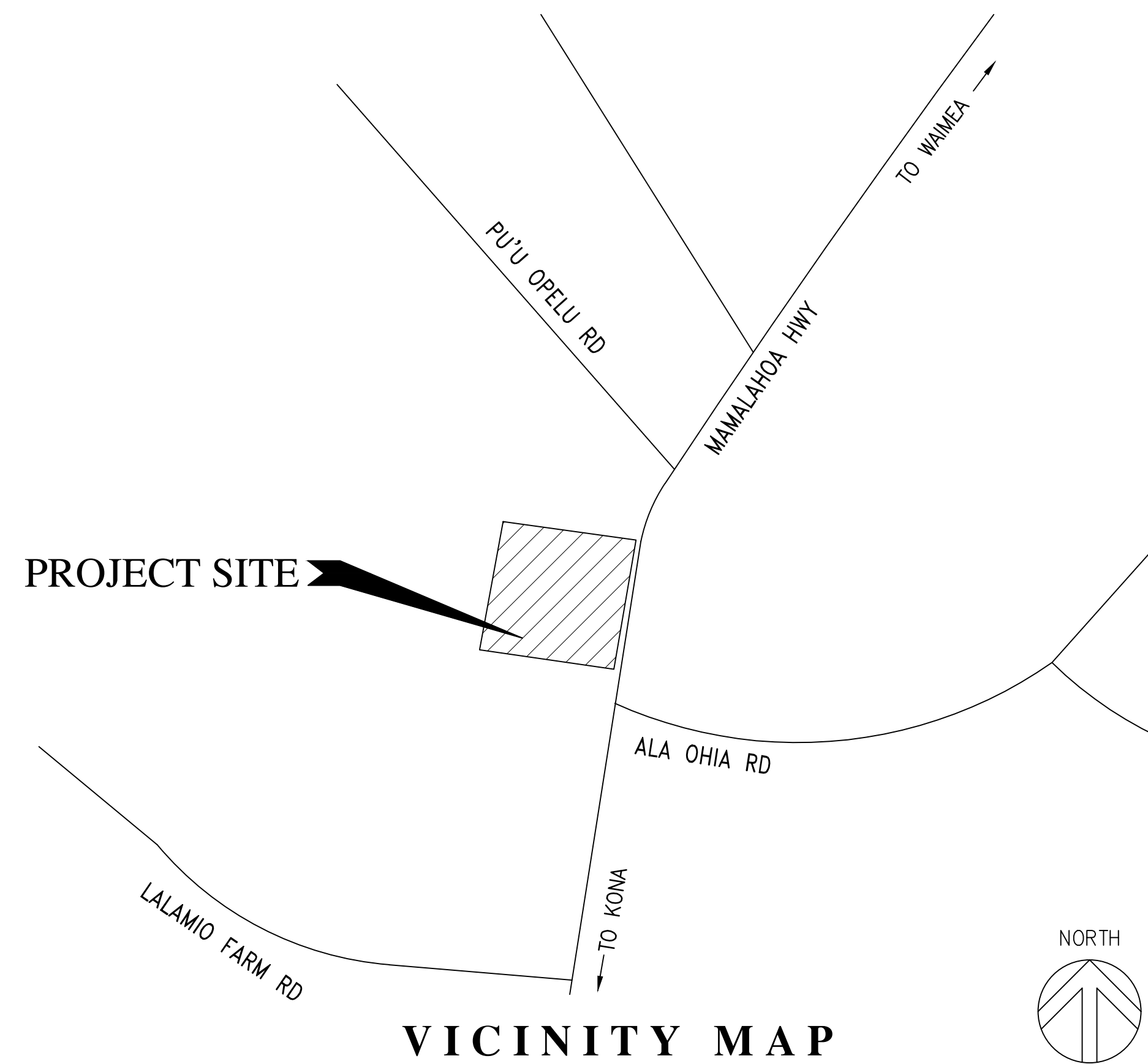
1. Surety bond underwritten by a company licensed to issue bonds in this State;
2. Legal tender; or
3. A certificate of deposit; share certificate; or cashier's, treasurer's, teller's, or official check drawn by, or a certified check accepted by, and payable on demand to the State by a bank, a savings 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



ISLAND OF HAWAII

LOCATION MAP



VICINITY MAP

DEMOLITION PLANS FOR

KAMUELA VACUUM COOLING PLANT INACTIVE VACUUM COOLING WAREHOUSE

LALAMILO AHUPUA'A, SOUTH KOHALA, HAWAII ISLAND

OWNER: STATE OF HAWAII
LESSEE: KAMUELA VACUUM COOLING COOP, LTD.
MANAGED BY: DEPARTMENT OF AGRICULTURE

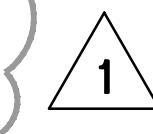
PROJECT NO: DOAH26B
TAX MAP KEY: (3) 6-6-005:028



SSFM INTERNATIONAL, INC.
99 Aupuni Street, Suite 202
Hilo, Hawaii 96720

INDEX TO DRAWINGS

DESCRIPTION	DWG NO.	SHEET NO.
TITLE SHEET	T-001	1
GENERAL NOTES	C-001	2
DEMOLITION PLAN	C-101	3
ELECTRICAL GENERAL LEGEND	E-001	4
ELECTRICAL PARTIAL SITE PLAN	E-101	5
ELECTRICAL DIAGRAM AND SCHEDULE	E-201	6
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CODE REQUIREMENTS	A-002	8
FLOOR PLAN	A-101	9
EXTERIOR ELEVATIONS	A-201	10



APPROVED

[Signature]
ADMINISTRATOR AND CHIEF ENGINEER
AGRICULTURAL RESOURCE MANAGEMENT DIVISION

8-18-2022
DATE

DIRECTOR, DEPARTMENT OF PUBLIC WORKS
COUNTY OF HAWAII

DATE

DIRECTOR, PLANNING DEPARTMENT
COUNTY OF HAWAII

DATE

REVISION	DATE	DESCRIPTION	MADE BY	APPROVED
△	10/10/22	ADDENDUM 3	RRM	

GENERAL NOTES:

1. THE CONTRACTOR SHALL REMOVE ALL SILT AND DEBRIS RESULTING FROM HIS WORK AND DEPOSITED WITHIN DOWNSTREAM WATERWAYS, DITCHES, DRAINAGE FACILITIES, ROADWAYS AND OTHER AREAS. THE CONTRACTOR SHALL OBSERVE AND COMPLY WITH ALL FEDERAL, STATE AND LOCAL LAWS REQUIRED FOR THE PROTECTION OF PUBLIC HEALTH AND SAFETY AND ENVIRONMENTAL QUALITY. THE COST INCURRED FOR ANY NECESSARY REMEDIAL ACTION ORDERED BY THE STATE SHALL BE PAID BY THE CONTRACTOR.
2. ALL DEBRIS AND WASTE MATERIAL SHALL BE HAULED AWAY TO A PERMITTED SOLID WASTE MANAGEMENT FACILITY ALLOWED AND WILLING TO ACCEPT SUCH WASTE OR OUT OF STATE DISPOSAL FACILITY. THE CONTRACTOR SHALL INFORM THE STATE OF THE LOCATION OF THE DISPOSED MATERIAL.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE AND PROTECTION OF EXISTING UTILITIES FROM ANY DAMAGE.
4. THE CONTRACTOR SHALL PROVIDE VEHICLE ACCESS TO AND FROM PUBLIC STREETS AT ALL TIMES.
5. ALL EXCAVATION WORK SHALL INCLUDE EXCAVATION CALLED FOR ON THE PLANS AND NOT ITEMIZED IN THE PROPOSAL, AND ANY OTHER INCIDENTAL EXCAVATION WORK NOT CALLED FOR BUT REQUIRED FOR THE CONSTRUCTION OF THIS PROJECT.
6. ALL ABANDONED PIPE OPENINGS SHALL BE PLUGGED WITH CLASS DWS 2000 CONCRETE TO A DEPTH OF 1-1/2 TIMES THE DIAMETER OF THE PIPE.
7. VERIFY AND CHECK ALL DIMENSIONS AND DETAILS SHOWN ON THE DRAWINGS PRIOR TO THE START OF DEMOLITION. ANY DISCREPANCY SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE STATE FOR DIRECTION.
8. THE CONTRACTOR SHALL NOTIFY ALL AGENCIES TO VERIFY THE ACTUAL LOCATIONS OF ALL UTILITIES IN THE PROJECT AREA PRIOR TO EXCAVATING. THE CONTRACTOR SHALL COORDINATE ALL WORK.
9. THE CONTRACTOR SHALL RELOCATE, REMOVE, AND/OR REPLACE ALL EXISTING UTILITIES, ROADWAY PAVEMENT, FENCES, IRRIGATION, AND LANDSCAPING DISTURBED DUE TO WORK RELATED TO THIS PROJECT AS DIRECTED BY THE STATE.
10. THE CONTRACTOR SHALL RESTORE ALL EXISTING IMPROVEMENTS THAT ARE DAMAGED AS A RESULT OF THE DEMOLITION TO THEIR ORIGINAL CONDITION OR BETTER, INCLUDING PAVEMENTS, EMBANKMENTS, CURBS, SIGNS, LANDSCAPING, STRUCTURES, UTILITIES, WALLS, FENCES, ETC.
11. ALL WORK IN THIS PROJECT SHALL INCLUDE THE WORK CALLED FOR ON THE PLANS AND NOT ITEMIZED IN THE PROPOSAL, AND ANY OTHER INCIDENTAL WORK NOT CALLED FOR BUT REQUIRED FOR THE DEMOLITION OF THIS PROJECT.
12. CONTRACTOR SHALL FIELD-VERIFY ALL EXISTING CONDITIONS PRIOR TO BID.
13. THE UNDERGROUND PIPES, CABLES OR DUCTLINES KNOWN TO EXIST BY THE ENGINEER FROM HIS SEARCH OF RECORDS ARE INDICATED ON THE PLANS. THE CONTRACTOR SHALL VERIFY THE LOCATIONS AND DEPTHS OF THE FACILITIES AND ANY OTHER FACILITIES NOT SHOWN ON PLAN, AND EXERCISE PROPER CARE IN EXCAVATING IN THE AREA. ALL DAMAGED PORTIONS SHALL BE REPLACED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE AFFECTED UTILITY COMPANY AND SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONFORMANCE WITH THE APPLICABLE PROVISIONS OF THE WATER QUALITY AND WATER POLLUTION CONTROL STANDARD CONTAINED IN HAWAII ADMINISTRATIVE RULES, TITLE 11, CHAPTER 54, "WATER QUALITY STANDARDS" AND TITLE 11, CHAPTER 55, "WATER POLLUTION CONTROL". BEST MANAGEMENT PRACTICES SHALL BE EMPLOYED AT ALL TIMES DURING CONSTRUCTION.
15. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS OR CERTIFICATES REQUIRED PRIOR TO START OF WORK, INCLUDING PERMIT FOR HYDROTESTING AND DEWATERING DISCHARGE AS ISSUED BY THE STATE DEPARTMENT OF HEALTH.
16. FOR BENCH MARK, SEE DEMOLITION PLAN SHT. C-101.
17. THE CONTRACTOR SHALL NOTIFY THE ONE CALL CENTER AT (866) 423-7287 AT LEAST 5 DAYS PRIOR TO THE START OF EXCAVATION OR TRENCHING.
18. THE CONTRACTOR SHALL POTHOLE ALL EXISTING UNDERGROUND UTILITIES AND STRUCTURES AT CROSSINGS TO VERIFY INVERT ELEVATIONS PRIOR TO EXCAVATION OF PIPELINE TRENCH.
19. THE CONTRACTOR, AT HIS/HER EXPENSE, SHALL KEEP THE PROJECT AND SURROUNDING AREAS FREE FROM DUST NUISANCE AND SHALL TAKE SUPPLEMENTARY MEASURES AS NECESSARY.
20. COORDINATE WITH KAMUELA VACUUM COOLING COOP AND DEPARTMENT OF AGRICULTURE TO MINIMIZE DISRUPTION.
21. THE CONTRACTOR SHALL MAINTAIN A MINIMUM 8-FOOT WIDE ROUTE TO ACTIVE BUILDING ENTRY, UNOBSTRUCTED BY SIGNS, POLES, ETC.

ABBREVIATIONS:

AC	ASPHALT CONCRETE	MIN	MINIMUM
APPROX	APPROXIMATE	N	NORTHING
ASPH	ASPHALT	NO	NUMBER
BLDG	BUILDING	PT	POINT
BMP	BEST MANAGEMENT PRACTICES	RD	ROAD
CONC	CONCRETE	SHT	SHEET
CONT	CONTINUATION	SPEC	SPECIFICATION
DB	DISTRIBUTION BOX	STD	STANDARD
DET	DETAIL	TMK	TAX MAP KEY
DWG	DRAWING	TYP	TYPICAL
E	EASTING		
EOP	EDGE OF PAVEMENT		
EXIST	EXISTING		
FT	FEET		
HAR	HAWAII ADMINISTRATIVE RULES		
HWY	HIGHWAY		
IN	INCH		
MAX	MAXIMUM		

HAZARDOUS MATERIAL NOTES:

ASBESTOS-CONTAINING MATERIAL DISTURBANCE/REMOVAL NOTES:

1. ASBESTOS-CONTAINING MATERIALS (ACM) WERE IDENTIFIED, THEREFORE ACM CONTROL MUST BE IMPLEMENTED.
2. ASBESTOS CONTROL MEASURES SHALL INCLUDE THE PROCEDURES AND METHODS DESCRIBED IN THE SPECIFICATIONS AND COMPLIANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.
3. IF SUSPECT MATERIALS PREVIOUSLY UNFORESEEN BECOME UNCOVERED, ADDITIONAL TESTING WILL BE REQUIRED PRIOR TO DISTURBANCE OF SUSPECTED MATERIALS.
4. WHEN ASBESTOS HAZARD CONTROL IS NOT FEASIBLE, CONTRACTOR SHALL REMOVE ACM IN ACCORDANCE WITH FEDERAL OSHA ASBESTOS CONSTRUCTION STANDARD, 29 CFR 1926.1101.
5. PROVIDE ENGINEERING CONTROLS AND APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT (PPE) IN COMPLIANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS AND APPROVED BY THE CONTRACTOR'S COMPETENT PERSON.
6. WASTE AND DUST CONTAINING ACM MUST BE COLLECTED SEPARATELY FROM OTHER CONSTRUCTION DEBRIS. WORKERS MUST CONDUCT PROMPT CLEAN UP AND DISPOSAL OF ASBESTOS WASTES AND DEBRIS IN LEAK-TIGHT CONTAINERS.
7. ASBESTOS-CONTAINING WASTE MUST BE WET, PACKAGED, LABELED, STORED, AND DISPOSED OF IN ACCORDANCE WITH APPLICABLE REGULATIONS.

LEAD-BASED PAINT TREATMENT/PREPARATION NOTES:

1. LEAD-BASED PAINT (LBP) IS PRESENT WITHIN THE PROJECT AREAS.
2. THE DISTURBANCE OF LBP WILL CAUSE LEAD-CONTAINING DUST TO BE RELEASED INTO THE ATMOSPHERE, THEREBY CREATING A HEALTH HAZARD TO THE SITE WORKERS, NEARBY COMMUNITY, AND THE ENVIRONMENT. APPRISE ALL WORKERS, SUPERVISORS, SUBCONTRACTORS, AND CONSULTANTS OF THE SERIOUSNESS OF THE LEAD HAZARD AND REQUIRE PROPER WORK PROCEDURES IN SUPPORT OF MINIMIZING EXPOSURES TO AIRBORNE LEAD DUST.
3. LEAD HAZARD CONTROL MEASURES SHALL INCLUDE THE PROCEDURES AND METHODS DESCRIBED IN THE SPECIFICATIONS AND COMPLIANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS.
4. CONTROL LEAD HAZARDS BY AVOIDING DRY SCRAPING, SANDING, GRINDING, ETC., AND BY USING A HIGH EFFICIENCY PARTICULATE AIR (HEPA) VACUUM. NO VISIBLE EMISSION OF LEAD DUST SHALL BE ALLOWED.
5. WHEN LEAD HAZARD CONTROL IS NOT FEASIBLE, CONTRACTOR SHALL REMOVE THE PAINTS (SPOT REMOVAL) IN ACCORDANCE WITH THE HAWAII ADMINISTRATIVE RULES (HAR) CHAPTER 11-41, HAWAII OCCUPATIONAL SAFETY AND HEALTH (HIOSH) LEAD IN CONSTRUCTION STANDARD, CHAPTER 12-148.1, AND FEDERAL OSHA LEAD STANDARD FOR GENERAL INDUSTRY, 29 CFR 1910.1025.
6. PROVIDE ENGINEERING CONTROLS AND APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT (PPE) IN COMPLIANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS AND APPROVED BY THE CONTRACTOR'S COMPETENT PERSON.

LEAD-CONTAINING PAINT TREATMENT/PREPARATION NOTES:

1. LOW CONCENTRATIONS OF LEAD ARE FOUND IN THESE PAINTS. HOWEVER, LEAD HAZARD CONTROLS MUST BE IMPLEMENTED.
2. THE DISTURBANCE OF LEAD-CONTAINING PAINT (LCP) WILL CAUSE LEAD-CONTAINING DUST TO BE RELEASED INTO THE ATMOSPHERE, THEREBY CREATING A HEALTH HAZARD TO THE SITE WORKERS, NEARBY COMMUNITY, AND THE ENVIRONMENT. APPRISE ALL WORKERS, SUPERVISORS, SUBCONTRACTORS, AND CONSULTANTS OF THE SERIOUSNESS OF THE LEAD HAZARD AND REQUIRE PROPER WORK PROCEDURES IN SUPPORT OF MINIMIZING EXPOSURES TO AIRBORNE LEAD DUST.
3. LEAD HAZARD CONTROL MEASURES SHALL INCLUDE THE PROCEDURES AND METHODS DESCRIBED IN THE SPECIFICATIONS AND COMPLIANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS.
4. CONTROL LEAD HAZARDS BY AVOIDING DRY SCRAPING, SANDING, GRINDING, ETC., AND BY USING A HIGH EFFICIENCY PARTICULATE AIR (HEPA) VACUUM. NO VISIBLE EMISSION OF LEAD DUST SHALL BE ALLOWED.
5. WHEN LEAD HAZARD CONTROL IS NOT FEASIBLE, CONTRACTOR SHALL REMOVE THE PAINTS (SPOT REMOVAL) IN ACCORDANCE WITH THE HAWAII ADMINISTRATIVE RULES (HAR) CHAPTER 11-41, HAWAII OCCUPATIONAL SAFETY AND HEALTH (HIOSH) LEAD IN CONSTRUCTION STANDARD, CHAPTER 12-148.1, AND FEDERAL OSHA LEAD STANDARD FOR GENERAL INDUSTRY, 29 CFR 1910.1025.
6. PROVIDE ENGINEERING CONTROLS AND APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT (PPE) IN COMPLIANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS AND APPROVED BY THE CONTRACTOR'S COMPETENT PERSON.

PCB-CONTAINING LIGHT BALLASTS AND MERCURY-CONTAINING FLOURESCENT LIGHT TUBES AND SWITCHES:

1. WHEN THE LABEL ON BALLASTS IS MISSING, ILLEGIBLE, OR DOES NOT STATE "NO PCBs", WORKERS MUST HANDLE AND DISPOSE OF THESE AS PCB-CONTAINING BALLASTS.
2. ALL WORK INVOLVING PCB AND/OR MERCURY-CONTAINING MATERIALS SHOULD BE PERFORMED BY PROPERLY TRAINED AND EQUIPPED PERSONNEL. PERSONNEL MUST UTILIZE APPROPRIATE PPE INCLUDING BUT NOT LIMITED TO DISPOSABLE COVERALLS, GLOVES, AND A NIOSH-APPROVED CONTAMINANT-SPECIFIC RESPIRATOR.
3. CONTRACTOR SHALL MAINTAIN A SPILL RESPONSE KIT FOR PCB AND MERCURY RELEASES ON SITE. PROMPTLY NOTIFY THE STATE OF PCB OR MERCURY RELEASES AND CLEAN UP ALL LEAKS AND SPILLS AND HANDLE DISPOSAL OPERATIONS IN COMPLIANCE WITH REGULATORY REQUIREMENTS AND PROJECT SPECIFICATIONS.
4. ALL PCB WASTE SHALL BE STORED AND DISPOSED OF IN COMPLIANCE WITH EPA REGULATIONS, AND ALL RECORDS INVOLVING PCB AND/OR MERCURY WASTE MUST BE PROPERLY MAINTAINED. INSPECT ALL WASTE CONTAINERS FOR LEAKS IN A TIMELY MANNER AND PREVENT RELEASE AT ALL TIMES.

EROSION CONTROL AND BEST MANAGEMENT PRACTICES (BMPs) NOTES:

1. CONTRACTOR TO CONFORM TO THE EROSION AND SEDIMENTATION CONTROL STANDARDS AND GUIDELINES ESTABLISHED BY THE DEPARTMENT OF PUBLIC WORKS IN CONFORMITY WITH CHAPTER 180C, HAWAII REVISED STATUTES AND THE STATE OF HAWAII DEPARTMENT OF TRANSPORTATION, CONSTRUCTION ACTIVITIES BMP FIELD MANUAL, DATED AUGUST 2018.
2. MEASURES TO CONTROL EROSION AND OTHER POLLUTANTS SHALL BE IN PLACE BEFORE ANY CLEARING AND GRUBBING WORK IS INITIATED. THESE MEASURES SHALL BE PROPERLY CONSTRUCTED AND MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.
3. CONSTRUCTION SHALL BE SEQUENCED TO MINIMIZE THE EXPOSURE TIME OF CLEARED SURFACE AREA.
4. ALL CONTROL MEASURES SHALL BE CHECKED AND REPAIRED AS NECESSARY.
5. CONSTRUCT FACILITIES TO RETAIN ON-SITE WASTEWATER SUCH AS WATER FOR DUST CONTROL AND CONSTRUCTION EXIT WASH WATER AND PERCOLATE INTO THE SOIL. WASH WATER AFTER CLEANING CONCRETE TRUCKS SHALL BE CONTAINED IN A SEPARATE WASH AREA LINED WITH AN IMPERMEABLE LAYER AND NOT ALLOWED TO OVERFLOW. THE CONTRACTOR SHALL DETERMINE THE LOCATION AND SIZE OF WASH AREA.
6. PROVIDE CONSTRUCTION ENTRANCE FOR EACH INGRESS AND EGRESS.
7. MAINTAIN SEDIMENT TRAPS AT DISCHARGE POINTS DURING SITE WORK AND UNTIL PERMANENT EROSION CONTROLS ARE IN PLACE.
8. INSTALL SEDIMENT BASIN ON A WEEKLY BASIS OR AS NEEDED. REMOVE SEDIMENT AND DEBRIS AS DIRECTED BY THE ENGINEER.
9. PRE-CONSTRUCTION VEGETATIVE GROUND COVER SHALL NOT BE DESTROYED, REMOVED OR DISTURBED MORE THAN TWENTY (20) CALENDAR DAYS PRIOR TO SITE DISTURBANCE.
10. TEMPORARY SOIL STABILIZATION WITH APPROPRIATE VEGETATION SHALL BE APPLIED ON AREAS THAT WILL REMAIN UNFINISHED FOR MORE THAN THIRTY (30) CALENDAR DAYS, IF NEEDED OR REQUIRED BY THE DIRECTOR OF PUBLIC WORKS.
11. PERMANENT SOIL STABILIZATION WITH NATIVE MATERIAL SHALL BE APPLIED AS SOON AS PRACTICAL AFTER FINAL GRADING AND GRUBBING.
12. THE CONTRACTOR, AT ITS OWN EXPENSE, SHALL KEEP THE PROJECT AREA AND SURROUNDING AREA FREE FROM DUST NUISANCE. THE WORK SHALL BE DONE IN CONFORMANCE WITH THE AIR POLLUTION CONTROL RULES OF THE STATE DEPARTMENT OF HEALTH, HAR 11-60.1, FUGITIVE DUST.
13. STORM WATER FLOWING TOWARD THE CONSTRUCTION AREA SHALL BE DIVERTED BY USING APPROPRIATE CONTROL MEASURES AS PRACTICAL. SEE NOTE 7 OF DEMOLITION NOTES
14. EROSION CONTROL MEASURES SHOWN HEREON REPRESENT THE MINIMUM REQUIREMENTS. CONTRACTOR SHALL ADJUST EROSION CONTROL MEASURES TO PROVIDE BEST MANAGEMENT PRACTICES TO ADDRESS REQUIREMENTS OF HAR 11-54 AS NEEDED AND AS CONSTRUCTION PHASING AND SEQUENCING REQUIRES. ANY REVISIONS AND/OR CHANGES AS A RESULT OF THESE CONDITIONS SHALL REQUIRE REVIEW AND APPROVAL BY THE CONSTRUCTION MANAGER, STATE AND COUNTY AGENCIES.
15. THE CONTRACTOR SHALL MAINTAIN ALL TEMPORARY BMP MEASURES UNTIL THE ENTIRE AREA IS COMPLETELY STABILIZED. ALL BMP MEASURES SHALL BE REMOVED IMMEDIATELY, AFTER THE AREA IS COMPLETELY STABILIZED.
16. INSPECT BMPs AND SITE WEEKLY. MAINTAIN BMPs AND SITE AS REQUIRED TO ENSURE CONTINUED PERFORMANCE. PROVIDE REPORT IDENTIFYING ANY AREAS THAT REQUIRE MAINTENANCE AND DATE WORK COMPLETED.


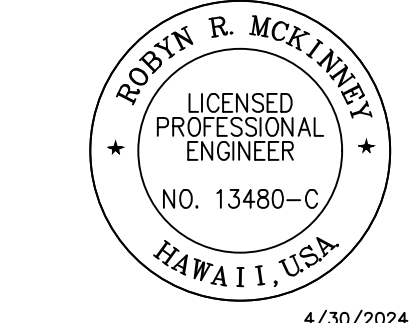
DEMOLITION NOTES:

1. ALL EXISTING FENCES AND GATES, AND OTHER SAFETY DEVICES SUCH AS SIGNS SHALL REMAIN IN PLACE AND REMAIN EFFECTIVE FOR AS LONG AS POSSIBLE BEFORE REMOVAL BECOMES NECESSARY.
2. ALL DRIVEWAYS SHALL REMAIN ACCESSIBLE. ANY DISRUPTION DUE TO DRIVEWAY WORK SHALL BE COORDINATED WITH OWNERS.
3. PROTECT EXISTING UTILITIES, ESPECIALLY WHERE AC PAVEMENT STRUCTURE IS BEING REMOVED TO NEW PAVEMENT SUBGRADE (INCIDENTAL).
4. THE EARTHWORK QUANTITIES FOR THE AC PAVEMENT REMOVAL WILL BE INCLUDED AS INCIDENTAL TO THE VARIOUS OTHER CONTRACT ITEMS.
5. ALL REMOVAL WORK SHALL INCLUDE DISPOSAL OFF-SITE. THE STATE WILL MOVE SALVAGEABLE MATERIALS TO THE SHIPPING CONTAINERS TO BE PROVIDED AND INSTALLED BY THE CONTRACTOR PRIOR TO DEMOLITION. DISPOSAL SHALL BE CONSIDERED INCIDENTAL TO REMOVAL COSTS AND SHALL NOT BE PAID FOR SEPARATELY.
6. REMOVAL OF HEDGES AND TREES ARE INCLUDED UNDER SECTION 02050: DEMOLITION. PAYMENT FOR CLEARING AND GRUBBING IS INCIDENTAL TO THE WORK AND SHALL NOT BE PAID FOR SEPARATELY.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING EXISTING DRAINAGE PATTERNS DURING CONSTRUCTION.
8. ANY ELECTRICAL SERVICE TO THE BUILDING TO BE DEMOLISHED SHALL BE DISCONNECTED FROM ITS SOURCE AND ASSOCIATED WIRING BETWEEN SOURCE AND BUILDING SHALL BE REMOVED.

GENERAL ELECTRIC AND COMMUNICATION NOTES:

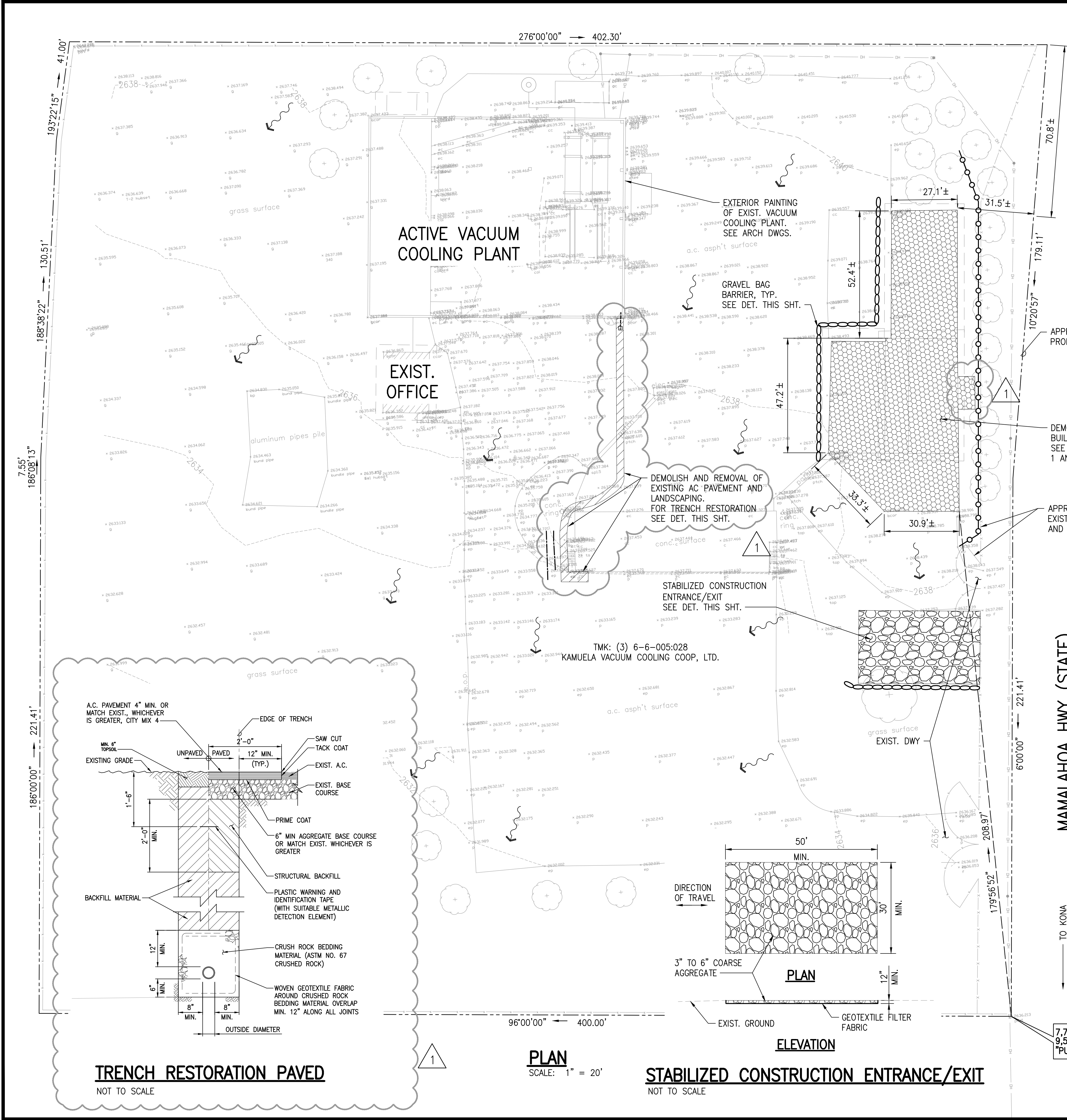
1. THE DRAWINGS DO NOT REFLECT ALL THE EXISTING CONDITIONS THAT MAY BE ENCOUNTERED DURING CONSTRUCTION. CONTRACTOR/BIDDER SHALL VISIT THE PROJECT SITE AND BECOME FAMILIAR WITH THE EXISTING CONDITIONS, THE EXTENT OF ANY DEMOLITION WORK, AND THE NEW WORK PRIOR TO BIDDING AND THE START OF ON-SITE CONSTRUCTION ACTIVITIES. REPORT ANY DISCREPANCIES AND/OR DIFFERENCES BETWEEN THE EXISTING CONDITIONS AND THE CONSTRUCTION DOCUMENTS TO THE ENGINEER PRIOR TO COMMENCING CONSTRUCTION. RESOLVE ALL DISCREPANCIES AND QUESTIONS PRIOR TO THE START OF WORK.
2. EXISTING DEVICE LOCATIONS, CIRCUIT ASSIGNMENTS, WIRING CONNECTIONS, AND CONDUIT RUNS INDICATED WERE DERIVED FROM AVAILABLE REFERENCE DOCUMENTS AND LIMITED FIELD INVESTIGATION. FIELD VERIFY ALL EXISTING CONDITIONS AND MAKE ANY NECESSARY ADJUSTMENTS TO SATISFY THE INTENT OF THE DRAWINGS AND SPECIFICATIONS.
3. RE-ROUTE ALL EXISTING CONDUIT, WIRING AND CABLING TO REMAIN WITHIN THE PROJECT AREA AS NECESSARY TO FACILITATE THE REMOVAL OF EXISTING EQUIPMENT AS WELL AS THE INSTALLATION OF ALL NEW EQUIPMENT. REMOVE AND RE-INSTALL ELECTRICAL EQUIPMENT, INCLUDING LIGHTS, TO REMAIN AS REQUIRED.
4. CONTACT THE ELECTRIC, TELEPHONE AND CABLE TELEVISION UTILITY COMPANIES AND COORDINATE ALL WORK WITH THEM. PAY ALL UTILITY COMPANY CHARGES RELATED TO THIS PROJECT UNLESS OTHERWISE DIRECTED. THE DRAWINGS DEPICT ANTICIPATED UTILITY COMPANY REQUIREMENTS. DO NOT PROCEED WITH THE UTILITY COMPANY RELATED WORK WITHOUT VERIFYING THEIR EXACT REQUIREMENTS. NOTIFY THE ENGINEER OF ANY DIFFERENCES BETWEEN WHAT IS SHOWN ON THE CONTRACT DRAWINGS AND WHAT IS REQUIRED BY THE UTILITY COMPANIES. ARRANGE FOR PERIODIC INSPECTIONS BY THE UTILITY COMPANIES AND PERFORM ALL WORK IN ACCORDANCE WITH THE UTILITY COMPANY STANDARDS.
5. THE LOCATION OF ALL ELECTRICAL APPARATUS AND DEVICES ARE APPROXIMATE AND BEFORE INSTALLING, STUDY THE CIVIL, TRAFFIC SIGNAL, STRUCTURAL, AND LANDSCAPE DETAILS AND MAKE INSTALLATION IN THE MOST LOGICAL MANNER. ANY PIECE OF EQUIPMENT/DEVICE MAY BE RELOCATED WITHIN 10' BEFORE INSTALLATION AT THE DIRECTION OF THE ENGINEER WITHOUT ADDITIONAL CHARGE TO THE OWNER.
6. VERIFY ALL SYSTEM REQUIREMENTS (ELECTRICAL, MECHANICAL, FIRE ALARM, SPECIALTY SYSTEMS, ETC.) WITH THE SELECTED SYSTEM'S MANUFACTURER OR AUTHORIZED REPRESENTATIVE PRIOR TO COMMENCING WITH ANY WORK. CORRECT ALL DISCREPANCIES SO AS TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM. RECORD CHANGES ON THE AS-BUILT DRAWINGS.
7. CONTRACTOR SHALL INVESTIGATE AND TONE AREA BEFORE DIGGING OR EXCAVATING.
8. ALL EQUIPMENT SHALL BE PROPERLY MOUNTED, ANCHORED, AND SUPPORTED BY APPROVED METHODS FOR SEISMIC RESTRAINT.
9. CONCEAL ALL CONDUIT WHEREVER REASONABLE; EXPOSED CONDUITS ARE PERMITTED ONLY WHERE SPECIFICALLY SHOWN ON THE DRAWINGS. ALL EXPOSED CONDUITS IN FINISHED AREAS SHALL BE INSTALLED IN THE LEAST VISIBLE LOCATIONS. CARE SHALL BE TAKEN TO INSTALL CONDUIT IN THE MOST AESTHETICALLY PLEASING MANNER.
10. PROVIDE NYLON PULLSTRINGS IN ALL EMPTY CONDUITS UNLESS OTHERWISE INDICATED.
11. ALL SURFACE MOUNTED DEVICES SHALL BE INSTALLED UTILIZING FACTORY PAINTED SURFACE MOUNTING ACCESSORIES AND MATCHING DEVICE BOXES FOR THE MOST AESTHETICALLY PLEASING INSTALLATION.
12. PAINTING OF ELECTRICAL EQUIPMENT: PRIME ALL EXPOSED CONDUITS, BOXES, FITTINGS, SUPPORT CHANNELS, MOUNTING HARDWARE AND ACCESSORIES WITH A 2-PART EPOXY PRIMER AND FINISH WITH 2 COATS OF AN ALIPHATIC ACRYLIC URETHANE PAINT. PAINT FINISH TO MATCH THE SURFACE ON WHICH THEY ARE MOUNTED OR TO MATCH THE FINISH OF THE ADJACENT SURFACES. STAINLESS STEEL MATERIALS NEED NOT BE PAINTED.
13. SHOULD PROJECT CONDITIONS REQUIRE DEVIATIONS FROM THE CONSTRUCTION DRAWINGS, MARK SUCH CHANGES ON THE AS-BUILT DRAWINGS. IF THESE CHANGES REQUIRE ALTERNATE METHODS TO THOSE SPECIFIED IN THE CONTRACT DOCUMENTS, SUBMIT DRAWINGS SHOWING THE PROPOSED ALTERNATE METHODS TO THE ENGINEER FOR REVIEW AND APPROVAL. DO NOT PROCEED UNTIL APPROVAL IS OBTAINED FROM THE ENGINEER.
14. MAINTAIN SERVICES TO REMAIN AND PROTECT THEM FROM DAMAGE.
15. LOCATE, IDENTIFY, AND DISCONNECT FROM SOURCE, SERVICES SERVING BUILDING. REMOVE ASSOCIATED WIRING BETWEEN SOURCE AND BUILDING.

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10/10/22	ADDENDUM 3	RRM
REVISION	DATE	DESCRIPTION
 SSFM INTERNATIONAL, INC. 99 Aupuni Street, Suite 202 Hilo, Hawaii 96720		
KAMUELA VACUUM COOLING PLANT DEMOLITION OF INACTIVE VACUUM COOLING WAREHOUSE LALAMILO AHUPU'UA, SOUTH KOHALA, HAWAII ISLAND OWNER: STATE OF HAWAII MANAGED BY: DEPARTMENT OF AGRICULTURE PROJECT NO. DOAH289 TAX MAP KEY: (3) 6-4-005-028		
GENERAL NOTES		
DRAWN BY: SUR	ENGINEER: RM	CHECKED BY: AND
APPROVED:		
 4/30/2024 EXPIRATION DATE OF THE LICENSE		
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, SUBCHAPTER 1 DEFINITIONS OF THE HAWAII ADMINISTRATIVE RULES, PROFESSIONAL ENGINEERS, ARCHITECTS, SURVEYORS, AND LANDSCAPE ARCHITECTS.		
NOTE: CONTRACTOR TO CHECK AND VERIFY DIMENSIONS AT JOB BEFORE PROCEEDING WITH WORK.		

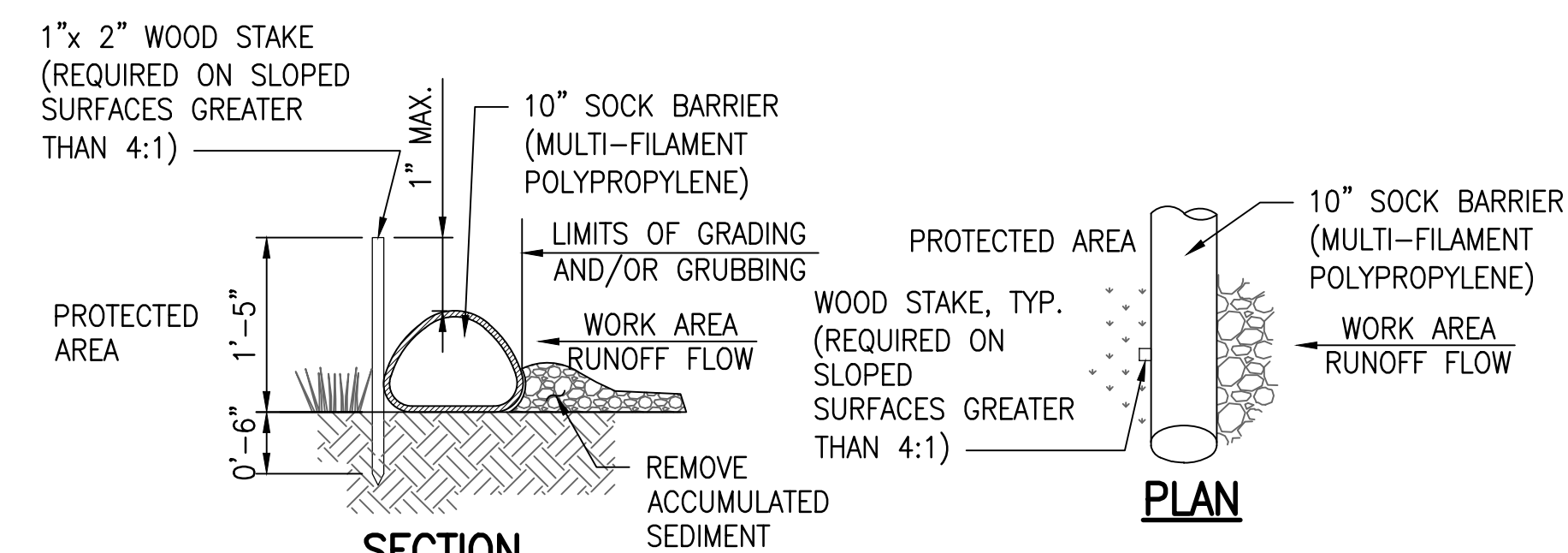
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\A\ CIVIL 3D PROJECTS\2019_052_000.DA KAMUELA VACUUM COOLING PLANT UPGRADE\01.DWG 10/7/2022 9:45 AM FSKHELUSOFF



LEGEND:

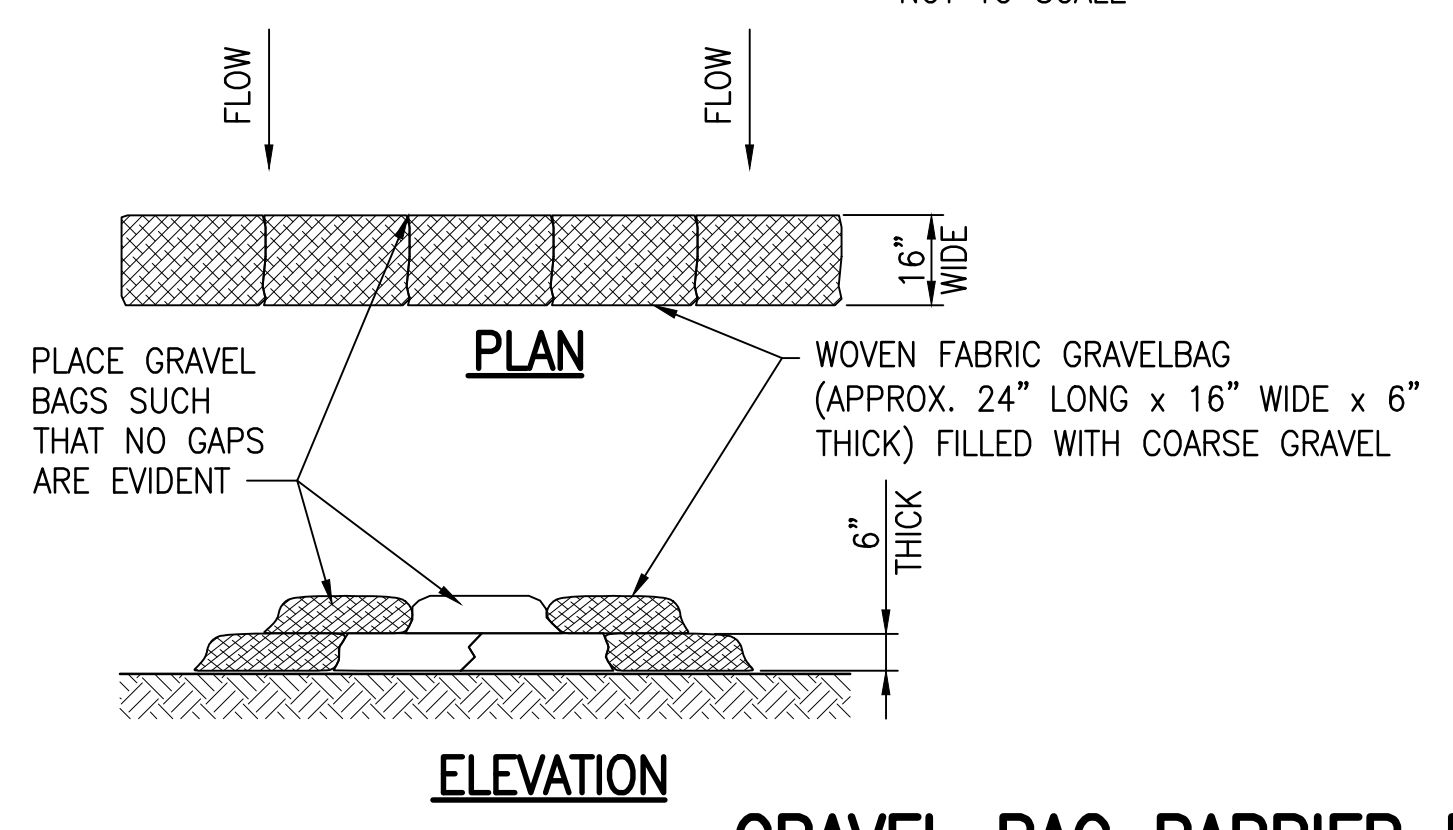
- PROPERTY LINE
- EXIST. MAJOR CONTOUR
- EXIST. MINOR CONTOUR
- GRAVEL BAG BARRIER SEE DET. THIS SHT.
- DEMOLISH EXIST. BUILDING/STRUCTURE
- STABILIZED CONSTRUCTION ENTRANCE/EXIT SEE DET. THIS SHT.
- EXIST. ELECTRICAL OVERHEAD LINE
- SILT SOCK SEE DET. THIS SHT.
- EXIST. FLOW DIRECTION
- EXIST. AC PAVEMENT TO BE DEMOLISHED



SLOPE GRADIENT	ANCHOR SPACING
<4:1	NOT REQUIRED
4:1 TO 3:1	10'
>3:1 TO 2:1	5' to 10'
>2:1	5'

- NOTES:**
- SOCK BARRIER FILL COMPOSITION IS WOOD MULCH.
 - SOCK BARRIER FILL SHALL NOT CONTAIN BIOSOLIDS AND SHOULD BE CONSISTENT WITH EPA GUIDELINES.

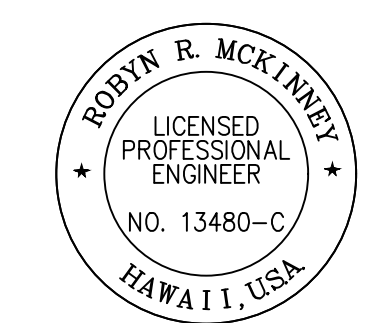
SILT SOCK BARRIER DETAIL
NOT TO SCALE



GRAVEL BAG BARRIER DETAIL
NOT TO SCALE

CIVIL DEMOLITION NOTES:

- EXISTING PAVEMENT AND CONCRETE FOUNDATIONS SHALL REMAIN SO THERE IS NO SOIL DISTURBANCE.
- UTILITIES WITHIN DEMOLITION AREA SHALL BE CAPPED AND PLUGGED. UTILITY METERS SHALL REMAIN IN PLACE.
- ALL REBARS, NAILS, OR OTHER OBJECTS SHALL BE SAWED OFF AT THE CONCRETE FACE.
- ORANGE CONSTRUCTION FENCE SHALL BE PROVIDED AROUND DEMOLITION SITE.



4/30/2024
 EXPIRATION DATE OF THE LICENSE
 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, SUBCHAPTER 1, DEFINITIONS OF THE HAWAII ADMINISTRATIVE RULES, PROFESSIONAL ENGINEERS, ARCHITECTS, SURVEYORS, AND LANDSCAPE ARCHITECTS.
 NOTE: CONTRACTOR TO CHECK AND VERIFY DIMENSIONS AT JOB BEFORE PROCEEDING WITH WORK.

REVISION	DATE	DESCRIPTION	MADE BY	APPROVED
10/10/22	ADDENDUM 3		RRM	
SSFM INTERNATIONAL, INC. 99 Aupuni Street, Suite 202 Hilo, Hawaii 96720				
KAMUELA VACUUM COOLING PLANT DEMOLITION OF INACTIVE VACUUM COOLING WAREHOUSE LALAMILO AHUPU'UA, SOUTH KOHALA, HAWAII ISLAND OWNER: STATE OF HAWAII MANAGED BY: DEPARTMENT OF AGRICULTURE PROJECT NO. 00AH208 TAX MAP KEY: (3) 6-6-005:028				
DEMOLITION PLAN				
DRAWN BY: SUR	ENGINEER: RRM	CHECKED BY: AND	APPROVED:	

ELECTRICAL SPECIFICATIONS

PART 1 - GENERAL

- A. WORK INCLUDES PROVIDING ELECTRICAL SYSTEM COMPONENTS, COMPLETE AND OPERATIONAL TO THE INTENT OF THE OF THE CONSTRUCTION DOCUMENTS.
- B. PERFORM ELECTRICAL WORK IN ACCORDANCE WITH THE BUILDING, ENERGY, AND ELECTRICAL CODES, ORDINANCES, RULES, AND POLICIES OF THE FEDERAL, STATE, AND COUNTY IN WHICH WORK IS TO BE PERFORMED AND APPLICABLE INSTRUCTIONS OF MANUFACTURERS OF EQUIPMENT AND MATERIAL SUPPLIED FOR THE PROJECT.
- C. OBTAIN AND PAY FOR REQUIRED PERMITS, LICENSES, FEES, AND OTHER CHARGES.
- D. CONTRACTORS SHALL BE LICENSED FOR THE WORK THEY PERFORM.
- E. THESE DRAWINGS DEPICT GENERAL LOCATIONS OF APPARATUS AND DEVICES. ROUTING OF WIRING TO BE DETERMINED IN FIELD BY CONTRACTOR TO SUIT CONDITIONS.
- F. MAINTAIN A SET OF CONTRACT DRAWINGS AT THE JOB SITE MARKING THEM TO SHOW VARIATIONS BETWEEN CONSTRUCTION ACTUALLY PROVIDED AND THAT INDICATED ON CONTRACT DOCUMENTS. TRANSFER THESE DATA AND SUBMIT A SET OF PORTABLE DOCUMENT FORMAT (PDF) RECORD DRAWINGS AND CERTIFICATES OF COMPLETION AND INSPECTION TO THE ARCHITECT AT THE CLOSE OF CONSTRUCTION.
- G. WORK WILL BE IN AN EXISTING BUILDING THAT IS FURNISHED AND OPERATIONAL. LEAVE ATTACHED EQUIPMENT IN PLACE AND PROTECT AGAINST DAMAGE OR TEMPORARILY DISCONNECT, RELOCATE, PROTECT, AND REINSTALL AT COMPLETION OF WORK.
- H. EXISTING CONDITIONS ARE SHOWN IN AN APPROXIMATE WAY AND HAVE NOT BEEN VERIFIED BY THE ENGINEER OR HIS REPRESENTATIVE. EXISTING CONDITIONS WAS COMPILED USING LIMITED FIELD OBSERVATIONS. SOME INDICATED CONDITIONS WERE RESOLVED ARBITRARILY TO COMPLETE THE DRAWING AND LIKELY MAY NOT REPRESENT ACTUAL FIELD CONDITIONS. VISIT THE JOB SITE AND BECOME AWARE OF EXISTING CONDITIONS. CONTRACTOR SHALL DETERMINE THE EXACT CONDITION OF EXISTING WIRING BEFORE COMMENCING WORK, AND SHALL BE RESPONSIBLE FOR ANY DAMAGE CAUSED BY THE CONTRACTOR'S FAILURE TO LOCATE AND PRESERVE CONDITIONS.
- I. SHOULD PROJECT CONDITIONS, INCLUDING CONDITIONS DISCOVERED DURING DEMOLITION OR CHANGES IN OTHER TRADES, REQUIRE REARRANGEMENT OF WORK, MARK CHANGES ON THE RECORD DRAWINGS. IF PROJECT CONDITIONS REQUIRE UNSPECIFIED MATERIALS OR METHODS, SUBMIT REQUEST FOR INFORMATION (RFI) TO THE ARCHITECT WITH DOCUMENTS SHOWING PROPOSED ALTERNATIVE MATERIALS OR METHODS FOR ARCHITECT'S REVIEW AND APPROVAL.
- J. THE ELECTRICAL INSTALLATION SHALL BE GUARANTEED FOR ONE YEAR AFTER ACCEPTANCE BY THE OFFICER-IN-CHARGE. WHEN NOTIFIED BY THE OFFICER-IN-CHARGE OF FAILURE OF ANY PART OF THE INSTALLATION DURING THE GUARANTEE PERIOD, THE CONTRACTOR SHALL REPAIR OR REPLACE THE DEFECTIVE PART AT HIS OWN EXPENSE TO THE SATISFACTION OF THE OFFICER-IN-CHARGE.
- K. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR SAFETY ON THE JOBSITE.
- L. THE CONTRACTOR SHALL PROVIDE EQUIPMENT AND WIRING FOR CONSTRUCTION POWER AND INCLUDE THE REMOVAL OF EQUIPMENT AND WIRING AT CLOSE OF CONSTRUCTION.

PART 2 - PRODUCTS

- A. NO PRODUCTS CONTAINING ASBESTOS SHALL BE USED ON THIS PROJECT.
- B. MATERIALS AND EQUIPMENT SHALL MEET THE REQUIREMENTS OF UNDERWRITER'S LABORATORIES, INC. (UL) WHERE UL STANDARDS HAVE BEEN ESTABLISHED FOR THOSE ITEMS. ALL ITEMS SHALL BE NEW UNLESS INDICATED OTHERWISE.
 - 1. CONDUCTORS: MINIMUM SIZE NO. 12 AWG, COPPER, 600 VOLTS, TYPE THWN OR XHHW. CONDUCTORS NO. 8 AND LARGER SHALL BE STRANDED. CONDUCTORS NO. 10 AND SMALLER SHALL BE SOLID, EXCEPT THOSE CONDUCTORS FOR REMOTE-CONTROL AND SIGNAL CIRCUITS, CLASSES 1, 2, AND 3, MAY BE STRANDED. COLOR CODE OF UNGROUNDED CONDUCTORS:
 - a. 208/120 VOLT, 3-PHASE: PHASE A - BLACK, PHASE B - RED, PHASE C - BLUE.
 - b. 480/277 VOLT, 3-PHASE: PHASE A - BROWN, PHASE B - ORANGE, PHASE C - YELLOW.
 - 2. CONDUIT: GALVANIZED ELECTRICAL AND FLEXIBLE METAL TUBING AND RIGID NONMETALLIC CONDUIT (SCH 80), 3/4 INCH MINIMUM UNLESS OTHERWISE NOTED.
 - 3. WIRING DEVICES, PIN AND SLEEVE RECEPTACLE: AS INDICATED.
 - 4. DRY TRANSFORMER: GENERAL PURPOSE, DRY TYPE, SELF-COOLED, FLOOR OR TRAPEZE MOUNTING, 150 DEGREE C TEMPERATURE RISE, RATING AS INDICATED WITH 6 TAPS (2 FCAN, 4 FCBN). TRANSFORMER EFFICIENCY SHALL COMPLY WITH SECTION C405.7 OF THE 2015 IECC.
 - 5. DISCONNECT SWITCHES: PROVIDE HEAVY DUTY TYPE WHERE SWITCHES ARE RATED HIGHER THAN 240V.
 - 6. PANEL:
 - a. MODIFY EXISTING PANELS AS INDICATED, COMPLEMENTS TO BE COMPATIBLE WITH EXISTING PANEL.
 - b. BOLT-ON BREAKERS, TYPE AND RATING AS INDICATED FOR NEW PANEL.
 - 7. GROUND RODS: CONE POINTED COPPER-CLAD STEEL, WITH MINIMUM DIAMETER OF 3/4 INCH AND MINIMUM LENGTH OF 10 FEET.
 - 8. ELECTRICAL HANGARS AND SUPPORT SYSTEMS: ENGAGE A QUALIFIED PROFESSIONAL ENGINEER TO DESIGN HANGAR AND SUPPORT SYSTEM. SYSTEM TO WITHSTAND THE EFFECTS OF EARTHQUAKE MOTIONS DETERMINED BY THE BUILDING CODE. SELECT SIZES OF COMPONENTS SO STRENGTH WILL BE ADEQUATE TO CARRY PRESENT STATIC LOADS (MINIMUM STATIC LOAD USED FOR STRENGTH DETERMINATION SHALL BE WEIGHT OF SUPPORTED COMPONENTS PLUS 200 POUNDS).
 - 9. NAMEPLATES: LAMINATED MELAMINE PLASTIC, 1/8"-THICK, WHITE WITH BLACK CENTER CORE. SURFACE SHALL BE MATTE FINISH. ENGRAVE 1/4"-HIGH NORMAL BLOCK STYLE LETTERING INTO CORE. MINIMUM SIZE OF NAMEPLATE SHALL BE 1" X 2-1/2".
 - 10. ARC-FLASH WARNING LABELS: 3.5 BY 5 INCH SELF-ADHESIVE EQUIPMENT LABEL FOR EACH WORK LOCATION INCLUDED IN ANALYSIS. LABELS MUST BE MACHINE PRINTED, WITH NO FIELD-APPLIED MARKINGS.
 - 11. PROVIDE PORTABLE DOCUMENT FORMAT (PDF) VIA EMAIL TO ARCHITECT DRAWINGS OR CATALOG CUTS THAT HAVE BEEN CHECKED BY THE CONTRACTOR FOR ARCHITECT'S REVIEW AND APPROVAL. ALLOW TEN WORKING DAYS FOR REVIEW PROCESS. (IF SUBSTITUTE PRODUCTS ARE PROPOSED FOR USE, THE BIDDER SHALL, PRIOR TO BID OPENING, SUBMIT DRAWINGS OR CATALOG CUTS FOR APPROVAL. SUBSTITUTIONS AFTER RECEIPT OF APPROVED SUBMITTALS SHALL NOT BE PERMITTED UNLESS APPROVED IN WRITING BY THE ARCHITECT.) EACH SUBMITTAL SHALL BE CLEARLY MARKED AS TO ITS INTENDED USE AND LOCATION.
 - a. WIRING DEVICES
 - b. DRY TRANSFORMERS
 - c. DISCONNECT SWITCHES
 - d. PANEL
 - e. NAMEPLATE
 - f. ARC-FLASH SAMPLE LABEL

PART 3 - EXECUTION

- A. DRAWINGS ARE OF SMALL SCALE AND ARE SCHEMATIC. INSTALL WORK TO MEET FIELD CONDITIONS WITH COORDINATION AMONGST OFFICER-IN-CHARGE AND OTHER TRADES. LOCATIONS OF EQUIPMENT AND SYSTEM ELEMENTS ARE APPROXIMATE. RELOCATE ANY DEVICE WITHIN 10 FEET PRIOR TO INSTALLATION, WITHOUT ADDITIONAL COST, AT THE DIRECTION OF THE OFFICER-IN-CHARGE.
- B. CONSULT THE COMPLETE CONSTRUCTION DOCUMENTS FOR DETAILS AND REQUIREMENTS NOT SHOWN ON THE ELECTRICAL DRAWINGS.
 - 1. EQUIPMENT SHALL BE CAPABLE OF FITTING IN THE SPACES LOCATED WHILE MEETING THE MANUFACTURER'S RECOMMENDED ACCESS REQUIREMENTS AND WORKING CLEARANCES. REVIEW SPACES WHERE EQUIPMENT IS TO BE INSTALLED PRIOR TO ORDERING EQUIPMENT AND NOTIFY THE ARCHITECT OF ANY INADEQUATE CLEARANCES OR CONDITIONS THAT WILL PREVENT THE PROPER INSTALLATION, MAINTENANCE, AND OPERATION OF THE EQUIPMENT.
 - 2. ANY CONFLICTS IN LOCATING EQUIPMENT SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION FOR RESOLUTION.
 - 3. IF DIRECTED BY THE ARCHITECT, THE CONTRACTOR SHALL MAKE REASONABLE MODIFICATION TO THE LAYOUT OF EQUIPMENT TO PREVENT CONFLICT WITH OTHER TRADES OR FOR THE PROPER EXECUTION OF THE WORK AT NO EXTRA COST.
 - 4. RE-CIRCUIT OR REWORK ANY DEVICE NECESSARY TO ENSURE THE PROPER PERFORMANCE OF REMAINING EQUIPMENT, DEVICES, AND CIRCUITS. WHERE ADDITIONAL CIRCUITS ARE NEEDED, REUSE CIRCUITS AVAILABLE FOR REUSE.
- C. COORDINATE ELECTRICAL WORK WITH UTILITY COMPANIES, OTHER TRADES, AND WITH OFFICER-IN-CHARGE. REARRANGEMENT OF WORK FOR THE PURPOSE OF COORDINATION BETWEEN TRADES SHALL NOT BE CONSIDERED REASON FOR EXTRA COST.

D. INSTALLATION AND WORKMANSHIP:

- 1. INSTALLATION SHALL CONFORM TO SEISMIC DESIGN REQUIREMENTS OF CHAPTER 16 OF THE 2012 INTERNATIONAL BUILDING CODE. PROVIDE SEISMIC BRACING FOR WALL MOUNTED ENCLOSURES AND OTHER ELECTRICAL EQUIPMENT.
- 2. COORDINATE OUTAGES ON ELECTRICAL SYSTEMS AND WORK IN NON-PROJECT WORK AREAS IN WRITING WITH OFFICER-IN-CHARGE 14 DAYS BEFORE DESIRED OUTAGE DATE AND ACCESS. OUTAGES AND ACCESS SHALL BE KEPT TO A MINIMUM IN DURATION AND QUANTITY. OUTAGES AND ACCESS WILL BE GRANTED AT THE SOLE CONVENIENCE OF OFFICER-IN-CHARGE.
- 3. WORK SHALL BE NEATLY EXECUTED, WORKMANLIKE IN APPEARANCE, SYMMETRICAL, PLUMB, UNIFORM, PROPERLY ALIGNED AND SECURED IN PLACE.
- 4. LAY OUT WORK IN ADVANCE. EXERCISE CARE WHERE CUTTING, CHANNELING OF FLOORS, WALLS, PARTITIONS, CEILINGS, OR OTHER SURFACES. REPAIR DAMAGE TO BUILDINGS, PIPING, AND EQUIPMENT USING SKILLED CRAFTSMEN OF TRADES INVOLVED. CUTTING, REPAIRS AND REFINISHING SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT.
- 5. FASTEN TO CONCRETE WITH EXPANSION BOLTS OR CONCRETE INSERTS; TO WOOD WITH WOOD SCREWS; AND TO LIGHT STEEL CONSTRUCTION WITH SHEET METAL SCREWS.
- E. WIRING METHOD:
 - 1. FEEDERS AND BRANCH CIRCUITS SHALL BE SINGLE CONDUCTORS IN CONDUIT.
 - 2. WIRING SHALL BE CONCEALED IN FINISHED AREAS.
 - a. OUTDOORS: APPLY RACEWAY PRODUCTS AS SPECIFIED BELOW UNLESS OTHERWISE INDICATED:
 - i. EXPOSED CONDUIT: RNC, TYPE EPC-80-PVC. INSTALL CONDUITS PARALLEL WITH OR AT RIGHT ANGLES TO WALLS AND STRUCTURAL MEMBERS.
 - ii. UNDERGROUND CONDUIT: RNC, TYPE EPC-40-PVC OR EPC-80-PVC, DIRECT BURIED OR CONCRETE ENCASED AS INDICATED ON DRAWINGS.
 - iii. BOXES AND ENCLOSURES, ABOVEGROUND: NEMA 250, TYPE 3R SS.
 - b. INDOORS: APPLY RACEWAY PRODUCTS AS SPECIFIED BELOW UNLESS OTHERWISE INDICATED.
 - i. EXPOSED: GRC.
 - ii. CONNECTION TO VIBRATING EQUIPMENT (INCLUDING TRANSFORMERS): FMC.
 - iii. BOXES AND ENCLOSURES: NEMA 250, TYPE 1.
 - 3. KEEP WIRING AT LEAST 6 INCHES AWAY FROM PARALLEL RUNS OF HOT-WATER PIPES. INSTALL HORIZONTAL RACEWAY RUNS ABOVE WATER PIPING.
 - 4. PROVIDE PROPER CONDUIT EXPANSION JOINT FITTINGS WHERE CONDUIT RUNS TRAVERSE AN EXPANSION JOINT.
 - 5. PROVIDE JUNCTION BOXES AND PULLBOXES REQUIRED FOR INSTALLATION OF ELECTRICAL DEVICES, EQUIPMENT AND WIRING, WHETHER OR NOT SPECIFICALLY INDICATED ON THE PLANS. SIZING OF BOXES SHALL BE IN ACCORDANCE WITH THE ELECTRICAL CODE.
 - 6. LABEL ALL JUNCTION BOXES AND PULL BOXES WITH INDICATION OF PANEL NAME AND CIRCUIT NUMBERS OF BRANCH CIRCUIT CONDUCTORS CONTAINED WITHIN THE BOX.
 - 7. SHARED NEUTRALS ARE NOT ALLOWED. COMPLY WITH NEC 210.4(B).
 - 8. BONDING. METAL COMPONENTS SHALL BE BONDED TO PROVIDE A CONTINUOUS CONDUCTING PATH BACK TO THE SERVICE GROUND OR DERIVED SYSTEM GROUND.
 - 9. AN INSULATED GREEN EQUIPMENT GROUND CONDUCTOR, SIZED PER NEC TABLE 250-122, SHALL BE PROVIDED WITH THE CONDUCTORS FOR EACH FEEDER AND BRANCH CIRCUIT. CONDUIT ALONE AS EQUIPMENT GROUND CONDUCTOR IS NOT ACCEPTABLE.
 - 10. DRIVE GROUND RODS UNTIL TOPS ARE 2" BELOW FINISHED FLOOR OR FINAL GRADE. INTERCONNECT GROUND ELECTRODES WITH GROUNDING ELECTRODE CONDUCTOR BELOW GRADE.
- F. SEAL PENETRATIONS THROUGH WALLS TO MATCH TO MATCH ADJACENT SURFACE.
- G. FASTEN NAMEPLATES TO THE EQUIPMENT WITH A MINIMUM OF TWO SHEETMETAL SCREWS OR TWO RIVETS.
- H. APPLY ONE ARC-FLASH LABEL ON FRONT COVER OF EACH DISCONNECT SWITCH AND PANEL.
 - 1. PANEL:
 - 1. UPDATE AND TYPE DIRECTORY TO INDICATE CIRCUIT ARRANGEMENT AS IT WAS ACTUALLY INSTALLED OR AS FOUND FOR CIRCUITS THAT ARE TO REMAIN (2017 NFPA 70 408.4(A)).
 - 2. APPLY ONE ARC-FLASH LABEL ON FRONT COVER OF EACH NEW PANEL.
 - 3. PROVIDE PERMANENTLY AFFIXED LABEL ON PANEL TO INDICATE WHERE THE POWER ORIGINATES IN ACCORDANCE WITH 2017 NFPA 70 408.4(B).
 - J. LABEL EACH DISCONNECTING MEANS TO INDICATE ITS PURPOSE UNLESS LOCATED AND ARRANGED SO ITS PURPOSE IS EVIDENT IN ACCORDANCE WITH NEC 110.22(A).
 - K. PERFORM AN OPERATIONAL TEST AFTER COMPLETING THE INSTALLATION TO ASSURE PROPER OPERATION OF ITEMS OF THE WORK.
 - L. CLEAN UP DEBRIS AT END OF EACH DAY'S WORK. REMOVE MARKINGS FROM ELECTRICAL EQUIPMENT AND DEVICES.

DEMOLITION NOTES

- A. EXISTING CONDITIONS ARE SHOWN IN AN APPROXIMATE WAY AND HAVE NOT BEEN VERIFIED BY THE ENGINEER OR HIS REPRESENTATIVE. EXISTING CONDITIONS WAS COMPILED USING AVAILABLE DRAWINGS AND LIMITED FIELD OBSERVATIONS. SOME INDICATED CONDITIONS WERE RESOLVED ARBITRARILY TO COMPLETE THE DRAWING AND LIKELY MAY NOT REPRESENT ACTUAL FIELD CONDITIONS. VISIT THE JOB SITE AND BECOME AWARE OF EXISTING CONDITIONS. CONTRACTOR SHALL DETERMINE THE EXACT CONDITION OF EXISTING WIRING BEFORE COMMENCING WORK, AND SHALL BE RESPONSIBLE FOR ANY DAMAGE CAUSED BY THE CONTRACTOR'S FAILURE TO LOCATE AND PRESERVE CONDITIONS.
- B. COORDINATE OUTAGES ON ELECTRICAL SYSTEMS AND WORK IN NON-PROJECT WORK AREAS IN WRITING WITH OFFICER-IN-CHARGE 14 DAYS BEFORE DESIRED OUTAGE DATE AND ACCESS. OUTAGES AND ACCESS SHALL BE KEPT TO A MINIMUM IN DURATION AND QUANTITY. OUTAGES AND ACCESS WILL BE GRANTED AT THE SOLE CONVENIENCE OF OFFICER-IN-CHARGE.
- C. EXISTING SERVICES/SYSTEMS TO BE REMOVED OR ABANDONED: LOCATE, IDENTIFY, DISCONNECT, AND SEAL OR CAP OFF UTILITY SERVICES AND ELECTRICAL SYSTEMS SERVING AREAS TO BE SELECTIVELY DEMOLISHED.
- D. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL NOTES.
- E. THE DEMOLITION PLAN IS INTENDED TO SHOW THE GENERAL SCOPE OF WORK AND DOES NOT SHOW EVERY ELECTRICAL DEVICE, WIRING, EQUIPMENT TO BE REMOVED. FIELD VERIFY OTHER ELECTRICAL SERVICE THAT MAY BE ENCOUNTERED DURING DEMOLITION AND NEW CONSTRUCTION AND REMOVE OR REROUTE THESE ITEMS.
- F. REMOVE AND LAWFULLY DISPOSE OF EXISTING WIRING AND DEVICES NOT TO REMAIN IN SERVICE.
- G. EXISTING CONCEALED WIRING TO BE REMOVED SHALL BE DISCONNECTED FROM ITS SOURCE. REMOVE CONDUCTORS; CUT CONDUIT FLUSH WITH FLOOR AND THROUGH WALLS; AND SEAL OPENINGS.
- H. REMOVAL OF EXISTING ELECTRICAL EQUIPMENT SHALL INCLUDE EQUIPMENT'S ASSOCIATED WIRING, INCLUDING CONDUCTORS, CABLES, EXPOSED CONDUIT, SURFACE METAL RACEWAYS, BOXES, FITTINGS, AND ACCESSORIES BACK TO EQUIPMENT'S SOURCE.
- I. MAINTAIN CONTINUITY OF EXISTING CIRCUITS OF EQUIPMENT TO REMAIN. EXISTING CIRCUITS OF EQUIPMENT SHALL REMAIN ENERGIZED. CIRCUITS WHICH ARE TO REMAIN BUT WERE DISTURBED DURING DEMOLITION SHALL HAVE WIRING AND POWER RESTORED TO ORIGINAL CONDITION. COORDINATE WITH NEW WORK AND REROUTE WIRING TO AVOID CONFLICT WITH NEW WORK.
- J. PREVENT INJURY OR DAMAGE TO EXISTING WORK WHICH REMAINS OR WILL BE REUSED. REPAIR OR REPLACE AS DIRECTED BY THE ARCHITECT, IN KIND AND IN A MANNER TO MATCH EXISTING. WORK OF THIS NATURE SHALL BE PERFORMED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE. AT THE COMPLETION OF OPERATIONS, EXISTING WORK SHALL BE IN A CONDITION EQUAL TO OR BETTER THAN THAT WHICH EXISTED BEFORE THE NEW WORK STARTED.

HAWAII COUNTY ENERGY CODE
2015 IECC, HAWAII REVISED STATUTES HRS 107-24 TO 28 & HAWAII 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 ELECTRICAL AND LIGHTING SYSTEMS (C405 & C408) OF THE 2015 IECC WITH AMENDMENTS PER HAR 3-181.1:

COMPLIANCE METHOD

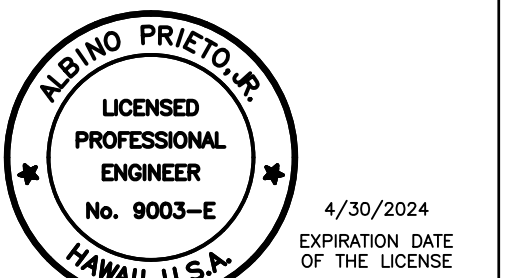
- 2015 IECC AS AMENDED. MANDATORY & PRESCRIPTIVE
- 2015 IECC AS AMENDED. MANDATORY & TOTAL BUILDING PERFORMANCE
- ASHRAE STANDARD 90.1-2013. MANDATORY & PRESCRIPTIVE
- ASHRAE STANDARD 90.1-2013. MANDATORY & ENERGY COST BUDGET

INFORMATION IN CONSTRUCTION DOCUMENTS

	YES	N/A
INTERIOR LIGHTING		
OCCUPANT SENSOR CONTROLS. C405.2.1	<input type="checkbox"/>	<input checked="" type="checkbox"/>
TIME SWITCH CONTROLS. C405.2.2	<input type="checkbox"/>	<input checked="" type="checkbox"/>
DAYLIGHT RESPONSIVE CONTROLS. C405.2.3	<input type="checkbox"/>	<input checked="" type="checkbox"/>
DAYLIGHT ZONES ON PLANS. C405.2.3.2 & C405.2.3.3	<input type="checkbox"/>	<input checked="" type="checkbox"/>
GUEST ROOM CONTROLS. C405.2.4	<input type="checkbox"/>	<input checked="" type="checkbox"/>
INTERIOR LIGHTING FIXTURE SCHEDULE	<input type="checkbox"/>	<input checked="" type="checkbox"/>
INPUT POWER FOR INTERIOR LIGHTING FIXTURES. C405.4.1	<input type="checkbox"/>	<input checked="" type="checkbox"/>
INTERIOR LIGHTING FIXTURE LOCATIONS	<input type="checkbox"/>	<input checked="" type="checkbox"/>
LIGHTING CONTROL FUNCTIONAL PERFORMANCE TESTING REQUIREMENT. C408.3	<input type="checkbox"/>	<input checked="" type="checkbox"/>
EXTERIOR LIGHTING		
EXTERIOR LIGHTING CONTROLS. C405.2.5	<input type="checkbox"/>	<input checked="" type="checkbox"/>
EXTERIOR LIGHTING FIXTURE SCHEDULE	<input type="checkbox"/>	<input checked="" type="checkbox"/>
INPUT POWER FOR EXTERIOR LIGHTING FIXTURES	<input type="checkbox"/>	<input checked="" type="checkbox"/>
EXTERIOR LIGHTING FIXTURE LOCATIONS	<input type="checkbox"/>	<input checked="" type="checkbox"/>
ELECTRICAL		
ELECTRICAL TRANSFORMER EFFICIENCY. C405.7	<input checked="" type="checkbox"/>	<input type="checkbox"/>
TENANT SUBMETERING. C405.10	<input type="checkbox"/>	<input checked="" type="checkbox"/>

NOTES

SIGNATURE: *Albino Prieto, Jr.* DATE: 10/6/2022



NAME: ALBINO PRIETO, JR.
TITLE: ELECTRICAL ENGINEER
LICENSE NO: 9003-E
PROJECT NAME: KAMUELA VACUUM COOLING PLANT UPGRADE
PROJECT TMK: (3) 6-6-005:028

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, SUBCHAPTER 1 DEFINITIONS OF THE HAWAII ADMINISTRATIVE RULES, PROFESSIONAL ENGINEERS, ARCHITECTS, SURVEYORS, AND LANDSCAPE ARCHITECTS)
NOTE: CONTRACTOR TO CHECK AND VERIFY DIMENSIONS AT JOB BEFORE PROCEEDING WITH WORK.

REVISION	DATE	DESCRIPTION	MADE BY	APPROVED
	10/10/22	NEW SHEET ADDENDUM 3		

SSFM INTERNATIONAL, INC.
99 Aupuni Street, Suite 202
Hilo, Hawaii 96720

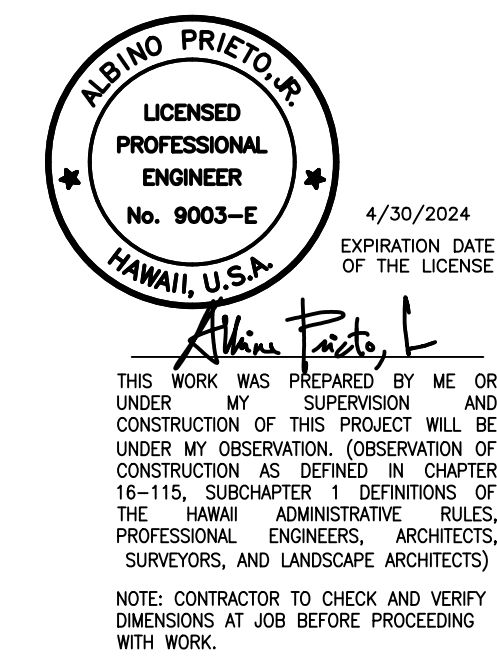
KAMUELA VACUUM COOLING PLANT DEMOLITION OF INACTIVE VACUUM COOLING WAREHOUSE

LALAMILO AHUPU'UA, SOUTH KOHALA, HAWAII ISLAND
OWNER: STATE OF HAWAII
MANAGED BY: DEPARTMENT OF AGRICULTURE
PROJECT NO. 00AH209
TAX MAP KEY: (3) 6-6-005:028

ELECTRICAL GENERAL LEGEND

DRAWN BY: SUR ENGINEER: RM CHECKED BY: AND

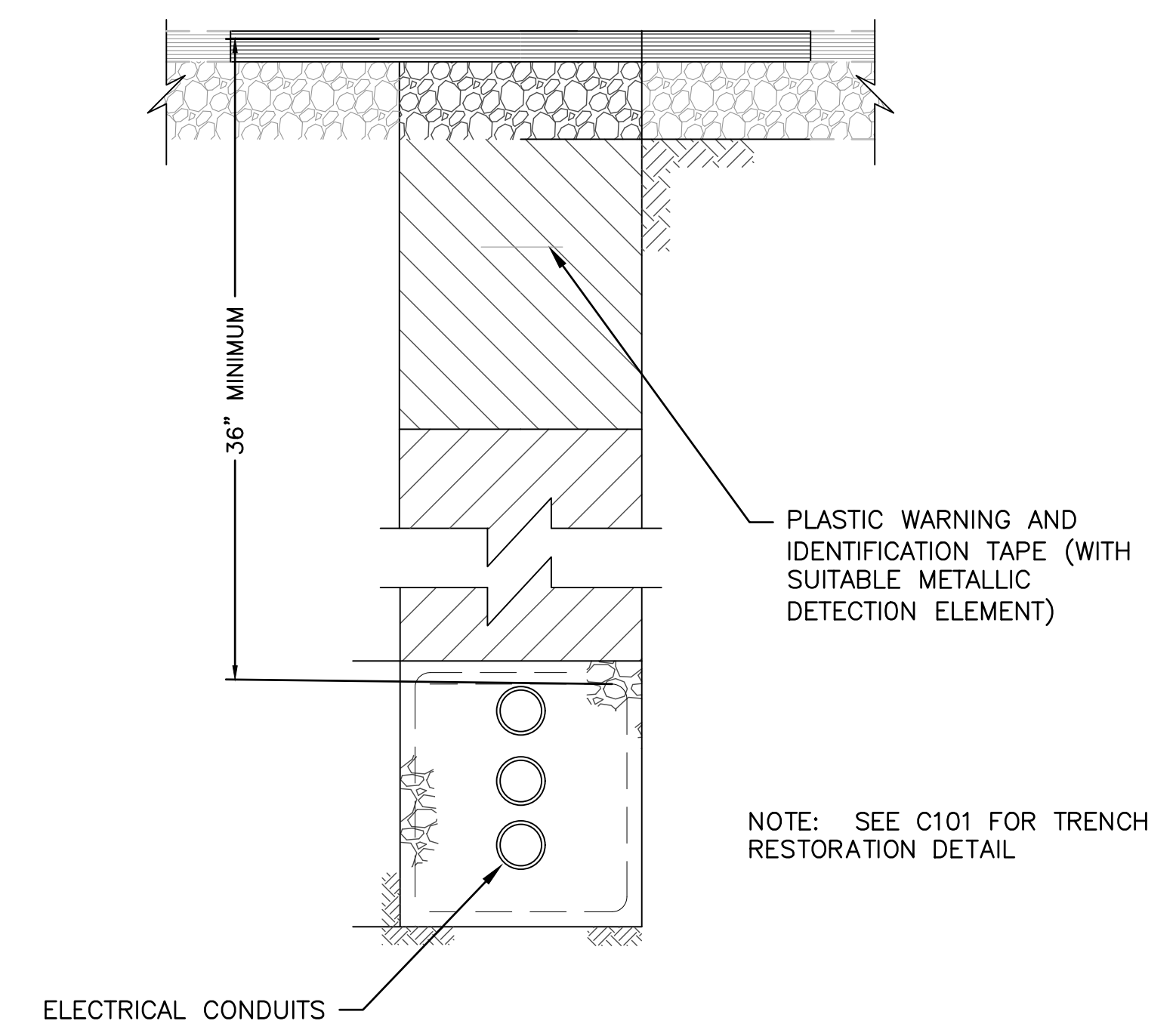
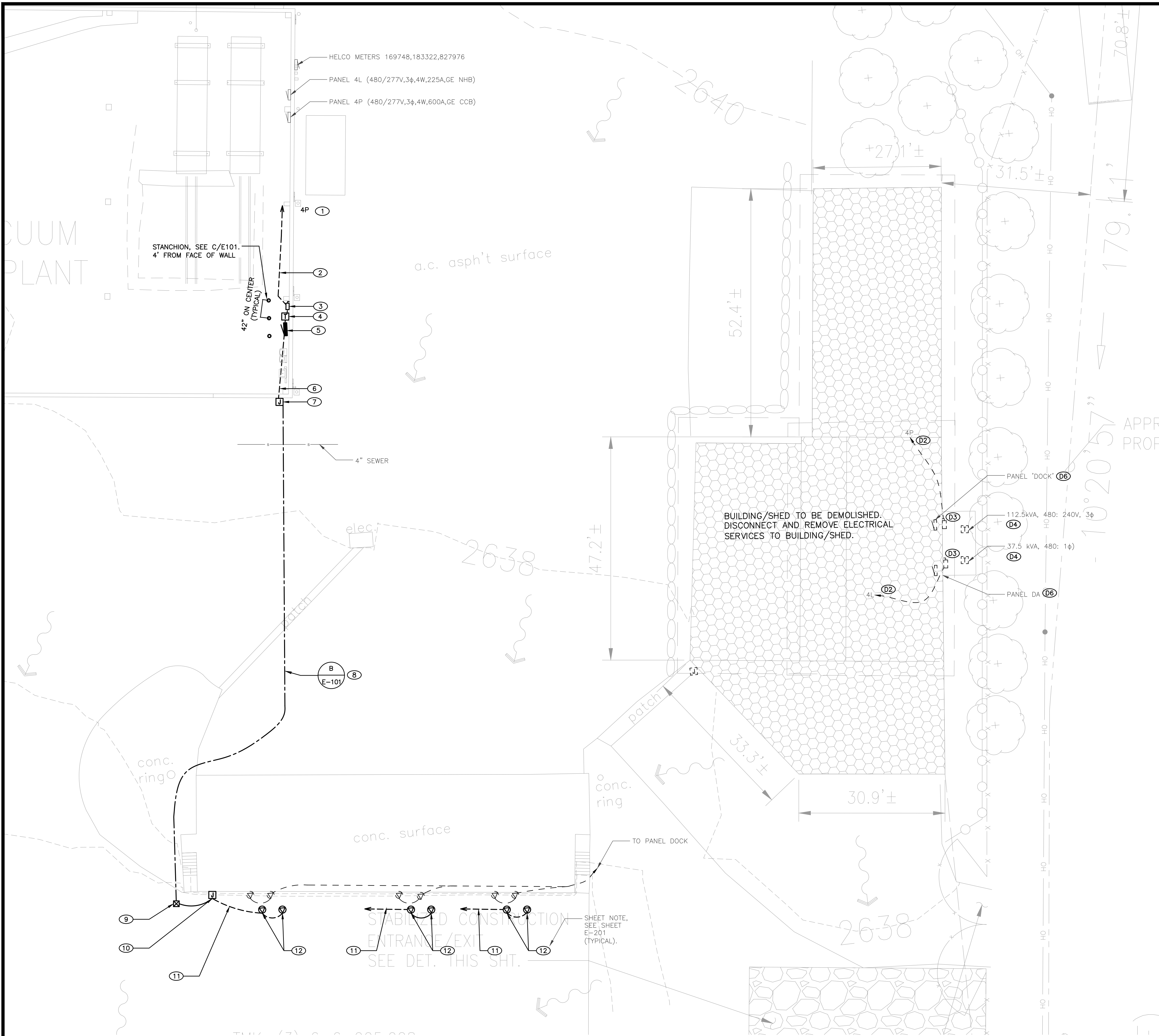
APPROVED: _____



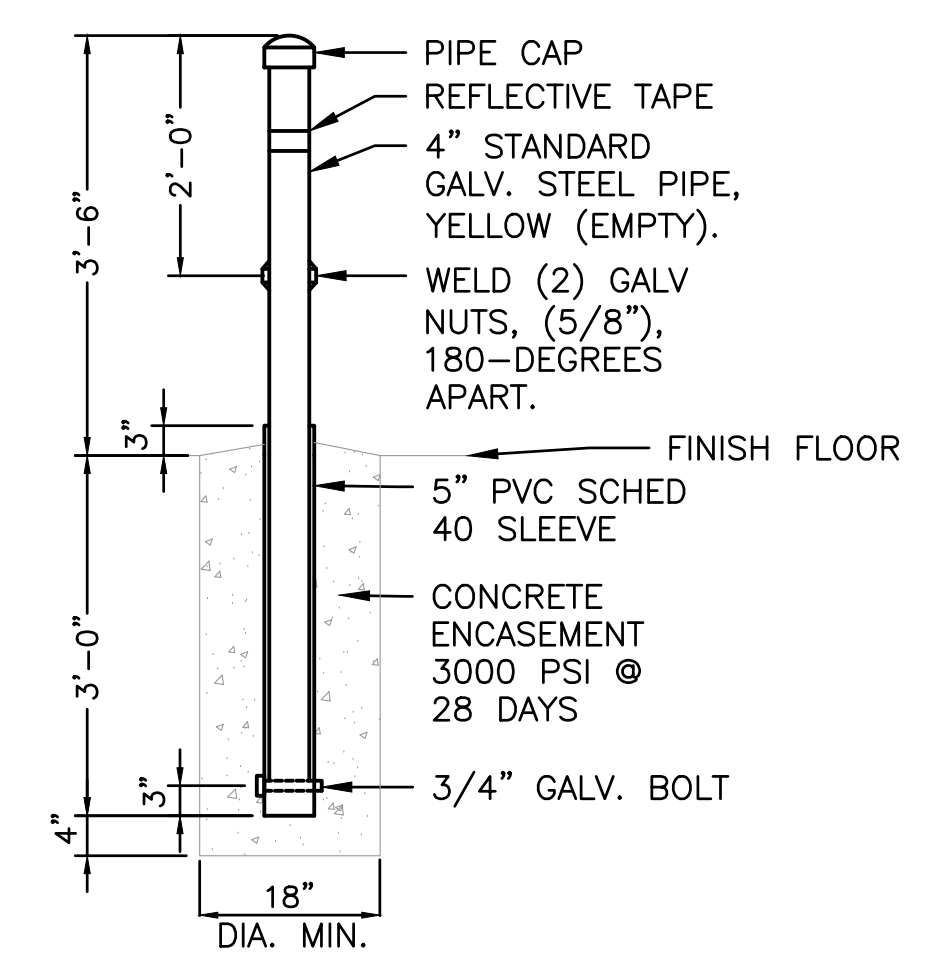
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION. (OBSERVATION OF CONSTRUCTION AS DEFINED IN CHAPTER 16-115, SUBCHAPTER 1 DEFINITIONS OF THE HAWAII ADMINISTRATIVE RULES, PROFESSIONAL ENGINEERS, ARCHITECTS, SURVEYORS, AND LANDSCAPE ARCHITECTS)
NOTE: CONTRACTOR TO CHECK AND VERIFY DIMENSIONS AT JOB BEFORE PROCEEDING WITH WORK.

M:\NATSUKA ENGINEERING\PROJECTS\1930 - SSFM\1930-19-005-KAMUELA VACUUM COOLING PLANT\ENGINEERING\DRAWINGS\CAD - CP - 3 DOCK RECEPICLES\1930-19-005-E-001 GENERAL LEGEND.DWG 10/6/2022 1:20 PM CHRISTY

N:\NATSUKA ENGINEERING\PROJECTS\1930 - SSFM\1930-19-005 KAMUELA VACUUM COOLING PLANT\ENGINEERING\DRAWINGS\CAD - CP 3 DOCK RECEP\1930-19-005_E-101 DEMOLITION PLAN - ELECTRICAL.DWG 10/19/2022 3:56 PM ALBINO

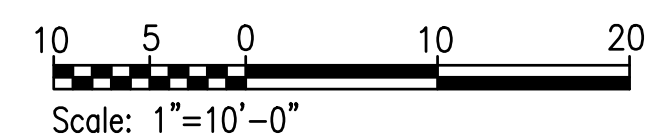


(B) TRENCH DETAIL
SCALE: NOT TO SCALE

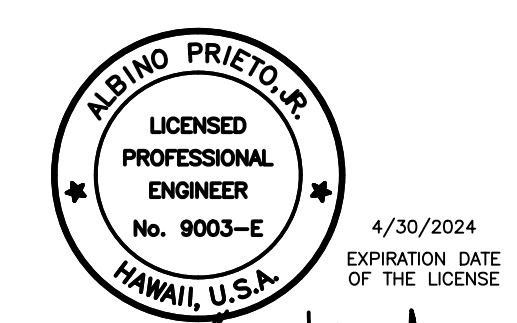


(C) STANCHION DETAIL
SCALE: NOT TO SCALE

(A) PLAN
SCALE: 1"=10'-0"



10/10/22	NEW SHEET ADDENDUM 3		
REVISION	DATE	DESCRIPTION	MADE BY / APPROVED
SSFM SSFM INTERNATIONAL, INC. International Hilo, Hawaii 96720			
KAMUELA VACUUM COOLING PLANT DEMOLITION OF INACTIVE VACUUM COOLING WAREHOUSE LALAMILO AHUPUA'A, SOUTH KOHALA, HAWAII ISLAND OWNER: STATE OF HAWAII MANAGED BY: DEPARTMENT OF AGRICULTURE PROJECT NO. DOAH209 TAX MAP KEY: (3) 6-4-005-028			
ELECTRICAL PARTIAL SITE PLAN			
DRAWN BY: SUR	ENGINEER: RM	CHECKED BY: AND	APPROVED:
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, SUBCHAPTER 1, DEFINITIONS OF THE HAWAII ADMINISTRATIVE RULES, PROFESSIONAL ENGINEERS, ARCHITECTS, SURVEYORS, AND LANDSCAPE ARCHITECTS. NOTE: CONTRACTOR TO CHECK AND VERIFY DIMENSIONS AT JOB BEFORE PROCEEDING WITH WORK.			



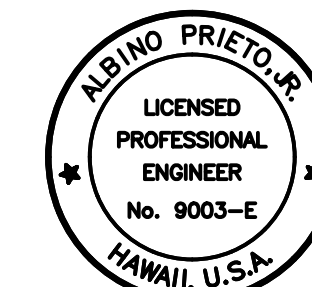
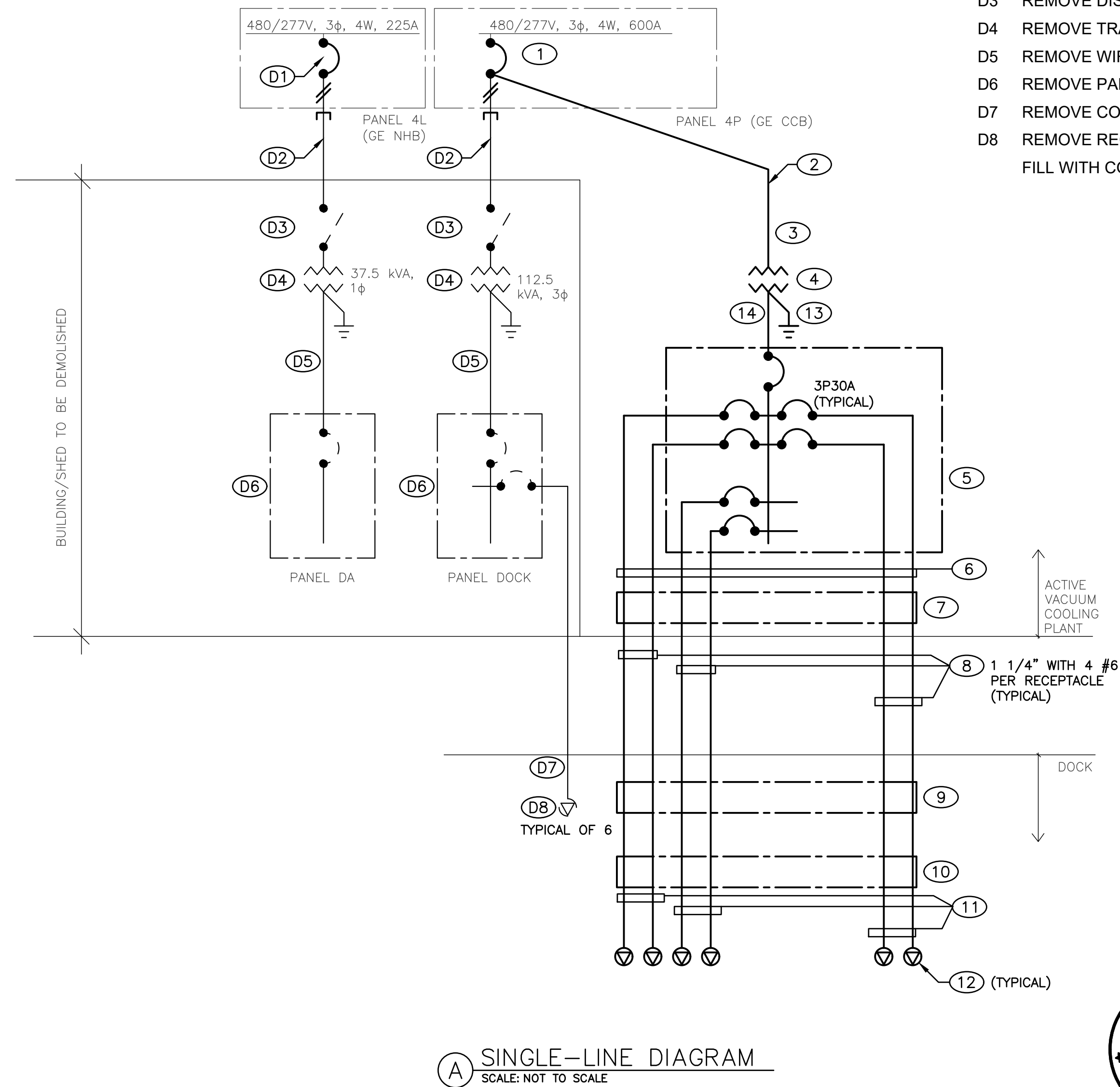
N:\WATSUKA\ENGINEERING\PROJECTS\1930 - SSFM\1930-19-005 KAMUELA VACUUM COOLING PLANT\ENGINEERING\DRAWINGS\CAD - CP 3 DOCK RECEPTACLES\1930-19-005-E-201 DIAGRAM AND SCHEDULE.DWG 10/6/2022 1:01 PM CHRISY

PANEL R														
VOLTS:		208	/	120	PHASE: 3		WIRE: 4		BUS: 225A		KAIC RATING: 10		MAIN: 3P225A BREAKER	
MOUNTING: SURFACE				BREAKERS: BOLT-ON										
LOCATION: ACTIVE VACUUM COOLING PLANT														
LOAD KVA														
code	CKT #	PURPOSE	BKR	WIRE	A	B	C	WIRE	BKR	PURPOSE	CKT #	code		
	1	DOCK RECEPTACLE 1	3P30A	6	2.9			6	3P30A	DOCK RECEPTACLE 4	2			
	3	-	-	6	2.9	2.9		6	-	-	4			
	5	-	-	6			2.9	6	-	-	6			
	7	DOCK RECEPTACLE 2	3P30A	6	2.9			6	3P30A	DOCK RECEPTACLE 5	8			
	9	-	-	6		2.9		6	-	-	10			
	11	-	-	6			2.9	6	-	-	12			
	13	DOCK RECEPTACLE 3	3P30A	6	2.9			6	3P30A	DOCK RECEPTACLE 6	14			
	15	-	-	6		2.8		6	-	-	16			
	17	-	-	6		2.9		6	-	-	18			
	19	PFB	1P						1P	PFB	20			
	21	PFB	1P						1P	PFB	22			
	23	PFB	1P						1P	PFB	24			
	25	PFB	1P						1P	PFB	26			
	27	PFB	1P						1P	PFB	28			
	29	PFB	1P						1P	PFB	30			
TOTAL CONNECTED:					17.3	17.2	16.3	50.8	EST CONN KVA					
code					CONN KVA		DEM FAC		DEM KVA		EST DEM: 63.5			KVA
E					100%		0.0		NEC 440.33		HI PH CONN KVA AMPS: 144.0			A
K					65%		0.0		NEC T220.56		3-PH DEM AMPS: 176.1			A
L					125%		0.0		NEC 210.19(A)(1)		NOTES: APPLY ONE ARC-FLASH LABEL ON FRONT COVER IN ACCORDANCE WITH NEC 110.16(A) AND A LABEL "FED FROM PANEL 4P VIA TRANSFORMER R" IN ACCORDANCE WITH NEC 408.4(B).			
MNC					100%		0.0		NEC 210.19(A)(1)					
MC					50.8		125%		63.5		NEC 210.19(A)(1)			
R							NEC		0.0		NEC T220.44			
TOT CONN					50.8		EST DEM		63.5		code: E = HVAC, K = KITCHEN, L = LIGHTING, MNC = MISC NON-CONTINUOUS, MC - MISC CONTINUOUS, R = RECEPTACLE			

SHEET NOTES

- REMOVE BREAKER AND REPLACE WITH 3P100A BREAKER. PROVIDE BREAKER MOUNTING HARDWARE AND FILLER PLATE AS REQUIRED. UPDATE PANEL DIRECTORY "PANEL R - DOCK RECEPTACLES".
- 1.25" C WITH 3 #2 AND 1 #8 GROUND.
- DISCONNECT SWITCH "TRANSFORMER R". 3P100A, 600V, NEMA 1 WITH LABEL "PANEL R VIA TRANSFORMER R".
- TRANSFORMER R. 75-KVA, 480: 208/120V, 3-PHASE, 4-WIRE ON 3.5" HIGH CONCRETE PAD.
- PANEL R. SEE PANEL SCHEDULE.
- WEATHERTIGHT PENETRATION THRU EXTERIOR WALL.
- JUNCTION BOX. 10"D X 18"W X 18"H, NEMA 3R SS.
- 1.25" C WITH 8 #6 (4 #6 PER RECEPTACLE).
- HANDHOLE, TRAFFIC RATED. SIMILAR TO HAWAIIAN ELECTRIC HANDHOLE DRAWING 100930 WITH LEGEND "ELEC" VICE "HECO".
- JUNCTION BOX. 10"D X 18"W X 18"H, NEMA 3R SS.
- 1.25" C WITH 8 #6 (4 #6 PER RECEPTACLE).
- PIN & SLEEVE WEATHERPROOF RECEPTACLE (RUSSELLSTOLL 3754). SURFACE MOUNT 6" BELOW EXISTING DOCK BUMPER.
- 0.75" C WITH #2 TO EXISTING GROUND SYSTEM.
- 2.5" C WITH 4 #4/0 WITH 1 #2 GROUND (10' MAXIMUM CONDUCTOR LENGTH).

- D1 DISCONNECT FEEDER FROM BREAKER AND UPDATE PANEL DIRECTORY "SPARE".
- D2 REMOVE CONDUCTORS AND MAKE SAFE FOR REMOVAL/DEMOLITION. DISCONNECT CONDUIT AT PANEL 4L OR 4P AND CLOSE OPENINGS. CUT CONDUIT FLUSH WITH FLOOR AND FILL CONDUIT WITH CONCRETE.
- D3 REMOVE DISCONNECT SWITCH.
- D4 REMOVE TRANSFORMER.
- D5 REMOVE WIRING.
- D6 REMOVE PANEL.
- D7 REMOVE CONDUCTORS AND CUT CONDUIT UNDERGROUND AND ABANDON IN PLACE.
- D8 REMOVE RECEPTACLE AND PROVIDE BLANK PLATE OR CUT CONDUIT FLUSH WITH WALL AND FILL WITH CONCRETE.



4/30/2024
EXPIRATION DATE OF THE LICENSE

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, SUBCHAPTER 1, DEFINITIONS OF THE HAWAII ADMINISTRATIVE RULES, PROFESSIONAL ENGINEERS, ARCHITECTS, SURVEYORS, AND LANDSCAPE ARCHITECTS)

NOTE: CONTRACTOR TO CHECK AND VERIFY DIMENSIONS AT JOB BEFORE PROCEEDING WITH WORK.

REVISION	DATE	DESCRIPTION	MADE BY	APPROVED
	10/10/22	NEW SHEET ADDENDUM 3		
SSFM SSFM INTERNATIONAL, INC. International Hilo, Hawaii 96720				
KAMUELA VACUUM COOLING PLANT DEMOLITION OF INACTIVE VACUUM COOLING WAREHOUSE				
LALAMILO AHUPU'UA, SOUTH KOHALA, HAWAII ISLAND OWNER: STATE OF HAWAII MANAGED BY: DEPARTMENT OF AGRICULTURE PROJECT NO. DOAH208 TAX MAP KEY: (3) 6-6-005-028				
ELECTRICAL DIAGRAM AND SCHEDULE				
DRAWN BY: SUR		ENGINEER: RM		CHECKED BY: AND
APPROVED:				