

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ADDENDUM NO. 2

for

**MAUI DISTRICT BASEYARD
OFFICE EXPANSION & RENOVATION, PART 2
PROJECT NO. HWY-M-03-21, Phase 2
ISLAND OF MAUI**

This addendum shall make the following amendments to the Bid Documents:

PLANS

- A. Remove Sheet No. S003 in its entirety and replace with Sheet No. S003 Revision 1 dated 10/4/2022. Special Inspection Note B revised to change responsibility for employment of Special Inspector from "Contractor" to "State".

SPECIFICATIONS

B. SECTION 00210 – INSTRUCTIONS TO BIDDERS

Remove Section 00210 dated 9/7/2022 in its entirety and replace with attached revised Section 00210 dated 10/5/2022. Remove references to Hawaii Products Preference.

C. SECTION 00410 – SOLICITATION, OFFER AND CONTRACT FORM

Replace Section 00410 pages 00410-9 to 00410-13 dated 9/7/2022 with attached revised Section 00410 pages 00410-9 to 00410-13 dated 10/5/2022. Remove references to Hawaii Products Preference.

D. SECTION 01100 – PROJECT REQUIREMENTS

Replace Section 01100 page 01100-3 dated 9/7/2022 with attached revised Section 01100 page 01100-3 dated 10/5/2022. Adjusted 1.05 B.1.b business hours for use of premises.

E. SECTION 15193 – FUEL SYSTEMS (GASOLINE/DIESEL)

Remove Section 15193 dated 9/7/2022 in its entirety and replace with attached revised Section 15193 dated 10/5/2022. Various updates.

The following is provided for information:

NOTICE TO BIDDERS

- F. Prospective bidders are hereby reminded that the deadline to submit bid documents is October 14th, 2022 at 2:00 p.m. HST.

PRE-BID MEETING NOTES

- G. Attached are the September 21, 2022 Pre-bid Meeting Minutes and Pre-Bid Meeting Attendance Sheet (redacted).

QUESTIONS & ANSWERS

- H. ANSWERS TO QUESTIONS FROM PROSPECTIVE BIDDERS

Attached are answers to questions from prospective bidders.

Please acknowledge receipt of this Addendum No. 2 by recording the date of its receipt in the space provided on page 00410-4 of the Solicitation, Offer and Contract Form.



JADE T. BUTAY
Director of Transportation

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-M-03-21, Phase 2	2022	14	46

SPECIAL INSPECTION:

A. Contractor shall be responsible for ensuring that special inspection of portions of the work, as required by the building code of the State of Hawaii, is made at the appropriate time. The contractor shall give timely notice of when and where inspections are to be made and provide access for the inspector. The contractor shall correct defective work at no additional cost to the state and pay for re-inspection.

B. **General:** Where application is made for construction as described in this section, the State shall employ one or more special inspectors to provide inspections during construction on the types of work listed under IBC section 1704. The special inspector shall be a qualified person who shall demonstrate competence, to the satisfaction of the building official, for inspection of the particular type of construction or operation requiring special inspection. These inspections are in addition to the inspections specified in section 109.

1. **Statement of special inspections.** The permit applicant shall submit a statement of special inspections prepared by the registered design professional in responsible charge in accordance with section 106.1 as a condition for permit issuance. this statement shall be in accordance with section 1705.
2. **Report requirement.** Special inspectors shall keep records of inspections. The special inspector shall furnish inspection reports to the building official, and to the registered design professional in responsible charge. Reports shall indicate that work inspected was done in conformance to approved construction documents. discrepancies shall be brought to the immediate attention of the contractor for correction. If the discrepancies are not corrected, the discrepancies shall be brought to the attention of the building official and to the registered design professional in responsible charge prior to the completion of that phase of the work. A final report documenting required special inspections and correction of any discrepancies noted in the inspections shall be submitted at a point in time agreed upon by the permit applicant and the building official prior to the start of work.

C. **CONCRETE CONSTRUCTION:** The special inspections and verifications for concrete construction shall be as required by this section and IBC table 1705.3.

D. Materials in the absence of sufficient data or documentation providing evidence of conformance to quality standards for materials in Chapter 3 of ACI 318, the building official shall require testing of materials in accordance with the appropriate standards and criteria for the material in chapter 3 of ACI 318. Weldability of reinforcement, except that which conforms to ASTM a 706, shall be determined in accordance with the requirements of section 3.5.2 of ACI 318.

E. **SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE:** Special inspections for seismic resistance are required for the following:

1. The seismic force-resisting systems in structures assigned to category c, d, e, or f as determined by IBC section 1613.
2. Designated seismic systems in structures assigned to seismic category d, e, or f.
3. Architectural, mechanical, and electrical components in structures assigned to seismic design category c, d, e, or f that are required in IBC sections 1707.7 and 1707.8.
4. **STRUCTURAL STEEL:** continuous special inspection is required for structural welding in accordance with AISC 341 with the exception of the following:
 1. Single-pass fillet welds not exceeding 5/16 inch in size

F. **SPECIAL CASES:** Special inspections shall be required for proposed work that is, in the opinion of the Contracting Officer, unusual in its nature, such as, but not limited to, the following examples:

1. Construction materials and systems that are alternatives to materials and systems prescribed by this code.
2. Unusual design applications of materials described in this code.
3. Materials and systems required to be installed in accordance with additional manufacturer's instructions that prescribe requirements not contained in this code or in standards referenced by this code.

(Based on IBC Table 1705.3) Required Special Inspections and Tests of Concrete Construction

Type	Continuous	Periodic	Referenced Standard	IBC Reference
1. Inspect reinforcement, including prestressing tendons, and verify placement	—	X	ACI 318: Ch. 20, 25.2, 25.3, 26.6.1-26.6.3	1908.4
2. Inspect anchors cast in concrete:	—	X	ACI 318: 17.8.2	—
3. Inspect anchors post-installed in hardened concrete members ^b	X	—	ACI 318: 17.8.2.4	—
A. Adhesive anchors in horizontally or upwardly inclined orientations to resist sustained tension loads				
B. Mechanical anchors and adhesive anchors not defined in 4.a	—	X	ACI 318: 17.8.2	—
4. Verify use of required design mix	—	X	ACI 318: Ch.19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3
5. Prior to concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of concrete	X	—	ASTM C172 ASTM C31 ACI 318: 26.5, 26.12	1908.10
6. Inspect concrete placement for proper application techniques	X	—	ACI 318: 26.5	1908.6, 1908.7, 1908.8
7. Verify maintenance of specified curing temperature and techniques	—	X	ACI 318: 26.5.3-26.5.5	1908.9
8. Inspect formwork for shape, location and dimensions of the concrete member being formed	—	X	ACI 318: 26.11.2 (b)	—

- a. Where applicable, see section 1705.12, special inspections for seismic resistance
- b. Specific requirements for special inspection shall be included in the research report for the anchor issued by an approved source in accordance with 17.8.2 in ACI 318, or other qualification procedures. Where specific requirements are not provided, special inspection requirements shall be specified by the registered design professional and shall be approved by the building official prior to the commencement of the work

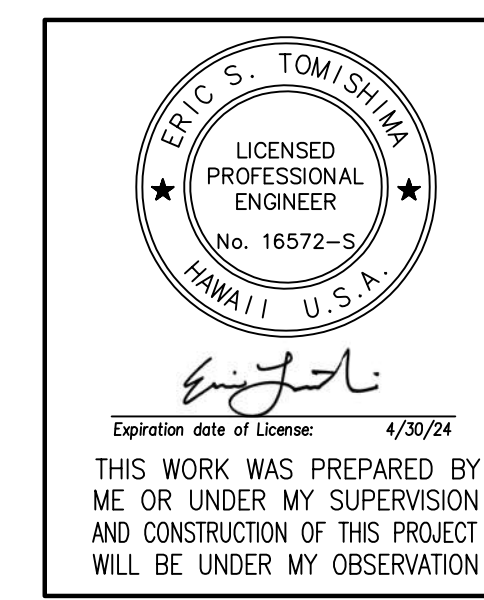
Conc Special Inspection Legend:

X indicates required inspections frequency required

SURVEY PLOTTED BY: _____ DATE: _____
 DRAWN BY: _____
 CHECKED BY: _____
 NOTE BOOK NO. _____
 QUANTITIES BY: _____
 CHECKED BY: _____
 No. _____

SHMP: 6481111-10000000-STRUCT-ENG-004-2022-24016-FW

10/4/22	△	ADDENDUM NO. 2
DATE		REVISION



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**GENERAL NOTES-
STRUCTURAL**

MAUI DISTRICT BASEYARD OFFICE EXPANSION #
RENOVATION, PART 2
Project No. HWY-M-03-21, Phase 2
Scale: None **Date: July 2022**

SECTION 00210 - INSTRUCTIONS TO BIDDERS

PART 1 - GENERAL

1.01 GENERAL

- A. Only bidders with the required Contractor's license(s) are eligible to submit a Bid.
- B. Bidders (Contractors) shall be incorporated or organized under the laws of the State or be registered to do business in the State as a separate branch or division that is capable of fully performing under the contract. The following definitions are used in the solicitation documents.
 - 1. Hawaii Business §3-122-112 HAR: A bidder who is registered and incorporated or organized under the laws of the State is a "Hawaii Business" and eligible for an award.
 - 2. Compliant non-Hawaii Business §3-122-112 HAR: A bidder not incorporated or organized under the laws of the State, but is registered to do business in the State and complies with or is exempt from the requirements of §3-122-112 HAR, is a "Compliant Non-Hawaii Business" and eligible for an award.
 - 3. Non-compliant Bidder: If a bidder is a non-Hawaii business and is not registered with the DCCA Business Registration Division (BREG) or cannot comply with §3-122-112 HAR, then the bidder is non-compliant and is ineligible for an award.
- C. When announced by the NOTICE TO BIDDERS, all bidders who intend to submit a bid, are invited to attend an initial pre-bid meeting and the accompanying site visit(s). Other interested parties may attend the initial pre-bid meeting and the accompanying site visit(s). For other site visits not conducted by the Department, bidders shall contact and make arrangements with the Project Contact Person listed in SECTION 00800 - SPECIAL CONDITIONS of these specifications.
- D. Bidders shall submit the "Solicitation, Offer and Contract Form", bid bond (if required), and any other documents required by these solicitation documents.
- E. The GENERAL CONDITIONS set forth additional terms and conditions for the bid and award process. The GENERAL CONDITIONS will be part of the contract documents by which the State and the bidder (prospective Contractor) will be bound. Bidders are directed to the GENERAL CONDITIONS, for contract and statutory requirements and for Bidding and Execution of Contract Requirements. Bidders are also directed to SECTION 00700 - GENERAL CONDITIONS and SECTION 00800 - SPECIAL CONDITIONS of these specifications for definitions and modifications to the GENERAL CONDITIONS.
- F. Wherever the term "Comptroller" appears in the Contract Documents, it shall be replaced with the term "Director of Transportation."
- G. The terms "Solicitation, Offer and Contract Form" and "Proposal and Proposal Schedule" are synonymous in the Contract Documents.

1.02 OFFEROR(S) or BIDDER(S)

- A. The terms "Offeror" and "Bidder" are synonymous when used in this Section 00210 and other solicitation documents.

1.03 PRE-BID MEETING AND SITE VISIT(S)

A. General

1. The attendance of pre-bid meetings and site visits is strongly encouraged.
2. Failure to attend the pre-bid meeting(s) and site visit(s) for a project DOES NOT absolve the bidder from its responsibilities under section 2.4.1 of the DAGS Interim General Conditions.
3. Verbal responses and discussions may occur during the course of the pre-bid meeting or site visit and shall not be considered to alter any information in the solicitation documents (see Section 2.5.1 of the DAGS Interim General Conditions).

B. Mandatory Pre-bid Meetings and Site Visits

1. The Project Coordinator may require all prospective bidder/offers to attend a mandatory Pre-bid Meeting(s) and Site Visit(s).
2. All bidders/offers will be required to sign the attendance sheet.
3. Failure to attend mandatory pre-bid meetings and site visits, if required, will automatically be cause for rejection of the bid.

1.04 ADDENDA AND CLARIFICATIONS

- A. The Department may periodically issue addenda and bid clarifications which may provide additional information or alter the plans and specifications.
- B. The Department will make addenda and bid clarifications available to Bidders via HlePRO. Bidders are responsible for the information contained in the addenda and bid clarifications whether or not the bidder receives the addenda or clarifications.
- C. Bidders discovering an ambiguity, inconsistency, or error when examining the bid documents or the site and bidders with questions or clarification requests shall transmit said discoveries, questions, and/or requests via HlePRO prior to the Question Due Date in General Information of the HlePRO Solicitation.
- D. All transmittals shall be brief, concise, but complete enough to properly evaluate and determine the merits of the question or request. Include references to appropriate section numbers, paragraphs, drawings, details, schedule numbers, and provide other information as appropriate.
- E. Requests transmitted or otherwise communicated directly to the Consultant will not be considered to be transmitted to the Department and will not be addressed.
- F. Requests for Substitution will only be entertained prior to bid opening if Section 00800 - SPECIAL CONDITIONS indicates that substitutions before award are allowed for this project. If allowed, requests of this nature must be submitted before the deadline specified for this purpose in the Notice to Bidders.

1.05 SOLICITATION, OFFER AND CONTRACT FORM (BID FORM)

A. Bidder shall fill out the "Solicitation, Offer and Contract Form" completely. Write in ink or type. Bidders must also comply with the supplemental instructions contained within the "Solicitation, Offer and Contract Form." Do not alter the "Solicitation, Offer and Contract Form", and maintain the form intact. When the State makes changes to the "Solicitation, Offer and Contract Form", a completely new bid form with appropriate addendum notation will be issued. Bidders shall use the most current version. Bidders shall use their exact legal name as registered with the Department of Commerce and Consumer Affairs, if applicable; and to indicate exact legal name in the appropriate space on the Solicitation, Offer and Contract Form.

~~B. Hawaii Product Preference:~~

- ~~1. In accordance with ACT 175, SLH 2009, the Hawaii products preference is applicable to this solicitation. Hawaii Products are available for those items noted on the offer form.~~
- ~~2. The Hawaii products list is available on the SPO webpage at: <https://spo.hawaii.gov/for-vendors/hawaii-product-preferences/>.~~
- ~~3. Offeror offering a Hawaii Product (HP) shall identify the HP on the solicitation offer page(s). Any person desiring a Hawaii product preference shall have the product(s) certified and qualified if not currently on the Hawaii products list, prior to the deadline for receipt of offer(s) specified in the procurement notice and solicitation. The responsibility for certification and qualification shall rest upon the person requesting the preference.~~
- ~~4. Persons desiring to qualify their product(s) not currently on the Hawaii product list shall complete form SPO-38, Certification for Hawaii Product Preference and submit to the Procurement Officer, and provide all additional information required by the Procurement Officer. For each product, one form shall be completed and submitted (i.e. 3 products should have 3 separate forms completed). Form SPO-38 is available on the SPO webpage at: <https://spo.hawaii.gov/all-forms/>.~~
- ~~5. When a solicitation contains both HP and non-HP, then for the purpose of selecting the lowest bid or purchase price only, the price offered for a HP item shall be decreased by subtracting 10% for the class I or 15% for the class II HP items offered, respectively. The lowest total offer, taking the preference into consideration, shall be awarded the contract unless the offer provides for additional award criteria. The contract amount of any contract awarded, however, shall be the amount of the price offered, exclusive of the preferences.~~
- ~~6. Change in availability of Hawaii product. In the event of any change that materially alters the offeror's ability to supply Hawaii products, the offeror shall immediately notify the procurement officer in writing and the parties shall enter into discussions for the purposes of revising the contract or terminating the contract for convenience.~~

C. 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 the preference.
 - c. The bidder is not required to have apprentices in its employ at the time the bid is submitted to qualify for the preference.
2. Self-Certification. A bidder seeking the preference must identify each apprenticeable trade the bidder will employ to perform the work by completing the self certification in the solicitation, offer and contract form. "Apprenticeable trade" shall have the same meaning as "apprenticeable occupation" pursuant to Hawaii Administrative Rules (HAR) §12-30-5.
3. The certification of bidder's participation (Form 1)
 - a. The Certification of Bidder's Participation - 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 Certification of Bidder's Participation - Form 1 for each trade must be submitted with the bid. A facsimile or copy is acceptable to be submitted with the bid, however the signed original must be submitted within five (5) working days of the bid open date. If the signed original is not received within this timeframe, the preference may be denied. Previous certifications shall not apply.
 - d. When filling out the Certification of Bidder's Participation - 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 State Department of Labor and Industrial Relations website. "Registered apprenticeship program" means a construction trade program approved by and registered with the DLIR pursuant to HAR §12-30-1 and §12-30-4.
 - e. The Certification of Bidder's Participation - Form 1 and the List of Construction Trades in Registered Apprenticeship Programs is available on the DLIR website at: <http://labor.hawaii.gov/wdd/files/2012/12/Form-1-Certification-of-Bidders-Participation.pdf>.

4. Upon receiving the Self Certification and Certification of Bidder's Participation - 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.
 5. 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 (5) percent for evaluation purposes.
 6. Should the bidder qualify for other preferences (~~for example, Hawaii Products~~), all applicable preferences shall be applied to the bid price.
- D. Other Conditions: Bidder acknowledges and agrees to the provisions and certifications stated in this article.
- E. Receipt of Addenda: Bidder shall fill in the appropriate dates any addenda were received.
- F. Listing Joint Contractors or Subcontractors:
1. Bidder shall complete the "Joint Contractors or Subcontractors List". It is the sole responsibility of the bidder to review the requirements of this project and determine the appropriate specialty Contractor's licenses that are required to complete the project. Failure of the bidder to provide the correct names and specialty Contractor's nature of work to be performed, may cause the bid to be rejected.
 2. Bidder agrees the completed listing of joint Contractors or Subcontractors is required for the project and that the bidder, together with the listed joint Contractors and Subcontractors, have all the specialty Contractor's licenses to complete the work.
 3. Based on the Hawaii Supreme Court's January 28, 2002 decision in Okada Trucking Co., Ltd. v. Board of Water Supply, et al., 97 Hawaii 450 (2002), the bidder as a general Contractor ('A' or 'B' license) is prohibited from undertaking any work solely or as part of a larger project, which would require the bidder ('A' or 'B' general Contractor) to act as a specialty ('C' license) Contractor in any area in which the bidder ('A' or 'B' general Contractor) has no specialty Contractor's 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. The bidder ('A' or 'B' general Contractor) must have the appropriate 'C' specialty Contractor's licenses either obtained on its own, or obtained automatically under HAR §16-77-32.
 4. 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.

5. 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.
6. Instructions to complete the Joint Contractors or Subcontractors List:
 - a. Describe the specialty Contractor's nature of work to be performed for this project and provide the complete firm name of the joint Contractor or Subcontractor in the respective columns.
 - b. List only one entity per required specialty contractor's classification. A bidder who intends to use more than one entity with the same specialty contractor's classification, will not be permitted to do so unless the nature of work to be performed by each entity is both distinct and separate and is appropriately described (i.e. two C-13 contractors are listed but one has the responsibility for AC control and the other for AC power). A bidder who intends to perform work that falls under the same specialty contractor's classification as that of a listed joint contractor or subcontractor must list itself, ensure that the nature of work is both distinct and separate, and is appropriately described.
- G. Proposal Schedule: Bidders must complete all unit prices and amounts, then enter the TOTAL AMOUNT FOR COMPARISON OF BIDS. Refer to Bidder's Instructions located within the article.
 1. The bidder is directed to the CONTRACT TIME information in the "Solicitation, Offer and Contract Form" for the contract duration and construction time. Bidder shall refer to SECTION 01100 - PROJECT REQUIREMENTS of these specifications for additional construction time information, as applicable.

1.06 EVALUATION CRITERIA

- A. Evaluating Bids: The lowest responsive, responsible bid is determined by the following procedures:
 1. Chapter 103D, HRS, which provides for the preferences, shall apply.
 2. The total lump sum bid price is adjusted to reflect the applicable preferences.
 3. The project will be evaluated based on the adjusted bid price.

1.07 METHOD OF AWARD

- A. The contract will be awarded to the lowest responsive and responsible Bidder whose bid meets the requirements and criteria set forth in the solicitation documents and as determined by the Comptroller.
- B. In the event the total lump sum bid of all bidders exceeds the project control budget, the Department reserves the right to make an award to the apparent Low Bidder if additional funds are available or by reducing the scope of work through negotiation.

1.08 OTHER CONDITIONS FOR AWARD

- A. The Comptroller may reject any or all bids and waive any defects if the Comptroller believes the rejection or waiver is in the best interest of the State.

- B. The Comptroller may hold all bids up to 60 calendar days from the date bids were opened. Unless otherwise required by law, bids may not be withdrawn without penalty.
- C. The award of the contract is conditioned upon funds made available for the project (or projects if applicable).
- D. Any agreement or contract is subject to approval by the Department of the Attorney General, and the approval of the Governor, as required by statute, regulation, rule, order, or other directive.

1.09 RESPONSIBILITY OF AWARDED BIDDER

- A. Pursuant to Section 103D-310(c), HRS, the responsive bidder recommended for contract award, if any, shall be compliant with all laws governing entities doing business in the State including the following chapters:
 - 1. Chapter 237, tax clearance;
 - 2. Chapter 383, unemployment insurance;
 - 3. Chapter 386, workers' compensation;
 - 4. Chapter 392, temporary disability insurance;
 - 5. Chapter 393, prepaid health care; and
 - 6. Chapter 103D-310(c), Certificate of Good Standing (COGS) for entities doing business in the State.
- B. The State will verify compliance on Hawaii Compliance Express (HCE). The HCE is an electronic system that allows vendors/contractors/service providers doing business with the State to quickly and easily obtain proof that they are compliant with applicable laws. The HCE certificate, 'Certificate of Vendor Compliance', allows this single printable electronic certificate to be substituted for the tax clearance, labor certificate, and a Certificate of Good Standing required in Hawaii Revised Statutes (HRS), Section 103D-310(c), and Hawaii Administrative Rules (HAR), Section 3-122-112. The HCE provides compliance status in real time.
- C. Bidders are advised to register with Hawaii Compliance Express at <https://vendors.ehawaii.gov> before submitting an offer. Bidders are strongly encouraged to submit a 'Certificate of Vendor Compliance' with their bid package to ensure the State's ability to quickly verify compliance at the time of award. If an offeror is not compliant at the time of award, an otherwise responsive and responsible offeror may not receive the award.

1.10 PRE-CONSTRUCTION MEETING

- A. General
 - 1. The attendance of pre-construction meetings is required.
 - 2. The contractor will be required to sign the attendance sheet.

PART 2 - PRODUCTS (Not Used)

PART 3- EXECUTION (Not Used)

END OF SECTION

PREFERENCES

Bidders agree that preferences shall be taken into consideration to determine the low bidder in accordance with said Sections and the rules promulgated, however, the award of contract will be in the amount of the bid offered exclusive of any preferences.

~~A. HAWAII PRODUCTS PREFERENCE~~

~~It is understood that certain Hawaii Products may be acceptable for use in this project and that, pursuant to Act 192, SLH 2009, which provides preference for Hawaii Products, a bidder proposing to use such Hawaii products shall so designate in the schedule provided below.~~

~~If a bidder proposes to use Hawaii Products, the bidder must so designate in said schedule by entering the cost of such product in the appropriate space provided. Failure on the part of the bidder to designate the use of Hawaii products will automatically void any preference for that product.~~

~~Persons desiring to qualify product(s) not currently on the list, shall complete form SPO-38, Certification for Hawaii Product Preference in accordance with the Special Provisions of these specifications.~~

~~It is understood by the bidder that if the bidder elects to furnish qualified Hawaii Products, and is awarded the contract, then fails to use such products or meet the requirements of such preference, the bidder shall be subject to the statutory penalties, provided in Section 103D-1002, Hawaii Revised Statute, and such other remedies as may be available to the State.~~

~~() — Yes, I propose to use Hawaii Products and claim the Hawaii Products Preference. I have filled in the table on the following pages as applicable.~~

B. APPRENTICESHIP PROGRAMS PREFERENCE

In accordance with ACT 17, SLH 2009 – Apprenticeship Program, a 5% bid adjustment for bidders that are parties to apprenticeship agreements pursuant to Hawaii Revised Statutes (HRS) Section 103-55.6 may be applied to the bidder's price for evaluation purposes

Any bidder seeking this preference must be a party to an apprenticeship agreement registered with the Department of Labor and Industrial Relations at the time the offer is made for each apprenticeable trade the bidder will employ to construct the public works projects for which the offer is being made.

The bidder is responsible for complying with all submission requirements for registration of its apprenticeship program before requesting the preference.

() **Yes, I wish to be considered for the Apprenticeship Programs Preference. I have included Certification Form(s) 1 with my bid.**

C. RECYCLED PRODUCT PREFERENCE

Recycled product preference shall not apply to this proposal.

DESIGNATION OF APPROVED HAWAII PRODUCTS* TO BE USED
***CONSTRUCTION PRODUCTS AND SOIL AMENDMENTS/PRODUCTS**

Product Category	Product Subcategory as applicable	Manufacturer	Cost FOB Jobsite, Unloaded Including Applicable General Excise & Use Taxes (a)	10% (b)	Credit (a) x (b)
Aggregates—Basaltic Termite Barrier		Ameron International Corporation- (Oahu)(Maui)	\$		\$
		HC&D LLC (Oahu)	\$		\$
Aggregates and Sand—Basalt, Rock, Cinder, Limestone and Coral		Ameron International Corporation- (Oahu)(Maui)	\$		\$
		Delta Construction Corporation (Oahu)	\$		\$
		Edwin Deluz Trucking & Gravel LLC- (Hawaii)	\$		\$
		Goodfellow Bros, Inc. (All Islands)	\$		\$
		Grace Pacific (Oahu)	\$		\$
		GW Construction (Hawaii)	\$		\$
		Hawaiian Cement (Oahu) (Maui)	\$		\$
		Jas. W. Glover, Ltd. (Hawaii) (Kauai)- Kauai Aggregates (Kauai)	\$		\$
		HC&D LLC (Oahu) (Maui)	\$		\$
		Puna Rock Co., LTD. (Hawaii)	\$		\$
		Sanford's Service Center, Inc. (Oahu)- (Maui) (Hawaii) (Kauai)	\$		\$
		Sphere, LLC (Oahu)	\$		\$
		Tileco, Inc. (Oahu) (Hawaii) (Maui) (Kauai)	\$		\$
		Tri-L Construction, Inc. (Molokai)	\$		\$
		West Hawaii Concrete (Hawaii)	\$		\$
Yamada and Sons, Inc. (Hawaii)	\$		\$		
Aggregates—Recycled Asphalt and Concrete		Glover Honsador (Kauai)-	\$		\$
		Grace Pacific (Oahu)	\$		\$
		Jas. W. Glover, Ltd. (Hawaii) (Oahu)	\$		\$
		West Oahu Aggregate Co. Inc. (Oahu)	\$		\$

Asphalt and Paving Materials	Ala Imua LLC (Oahu)	\$	\$
	Black Maui Rose LLC (Maui)	\$	\$
	Black Plumeria LLC (Oahu)	\$	\$
	GP Roadway Solutions, Inc. (All Islands)	\$	\$
	Grace Pacific Corporation- (Hawaii)-(Oahu)-(Kauai)	\$	\$
	Halawa Asphalt LLC (Oahu)	\$	\$
	Hawaii Emulsion, Inc. (All Islands)-	\$	\$
	Jas. W. Glover, Ltd. (Hawaii) (Kauai)-	\$	\$
	Maui Asphalt X IV, LLC (Maui)- (Molokai)(Kauai)	\$	\$
	Maui Paving LLC (Maui) (Molokai)-	\$	\$
	Road and Highway Builders (Oahu)-	\$	\$
	Walker Moody Pavement Products & Equipment (All Islands)	\$	\$
	Yamada and Sons, Inc. dba YS Rock and Con Agg of Hawaii (Hawaii)	\$	\$
	Cement and Concrete Products	Ameron International Corporation- (Oahu)-(Maui)	\$
BOMAT, Ltd. (All Islands)-		\$	\$
Glover Honsador (Kauai)-		\$	\$
Hawaiian Cement (Oahu)(Maui)		\$	\$
Island Ready Mix Concrete, Inc. (Oahu)-		\$	\$
Jas. W. Glover, Ltd. (Hawaii)(Kauai)-		\$	\$
Jensen Enterprises (All Islands)		\$	\$
Kiewit Infrastructure West Co. (Oahu)-		\$	\$
Kohala Coast Concrete & Precast LLC- (Hawaii)		\$	\$
HC&D LLC (Oahu) (Maui)		\$	\$
O. Thronas, Inc. (Kauai)		\$	\$
Road and Highway Builders, LLC (Oahu)		\$	\$
Tileco, Inc. (Oahu)(Hawaii)(Maui)(Kauai)		\$	\$
Tri L Construction, Inc. (Molokai)		\$	\$
West Hawaii Concrete (Hawaii)	\$	\$	
Yamada and Sons, Inc. (Hawaii)	\$	\$	

Precast Concrete Products		Aloha Precast, Inc.- (All Islands)	\$	\$
		Ameron International Corporation- (Oahu)	\$	\$
		GPRM Prestress LLC- (All Islands)	\$	\$
		Hawaii Concrete Products, Inc.- (Oahu)	\$	\$
		Hawaii Precast, Inc.- (All Islands)	\$	\$
		Kohala Coast Concrete & Precast LLC- (Hawaii)	\$	\$
		Ramtek Fabrication Co., Inc.- (All Islands)	\$	\$
		Walker Industries, Ltd.- (Oahu)(Hawaii)(Maui)(Kauai)	\$	\$
Environmental Sewage— Treatment Innovative System- (ESIS)	Septic Tanks	Ameron International Corporation- (Oahu)	\$	\$
		Environmental Waste Management Systems, Inc. (Oahu)(Hawaii)(Maui)(Kauai)	\$	\$
		Walker Industries, Ltd.- (All Islands)	\$	\$
Hot Dip Galvanizing		Universal Associates, Inc.- (Oahu)	\$	\$
Metal Roofing and Flashing— Preformed		HPM Building Supply (All Islands)	\$	\$
Pipes—Aluminum and- Galvanized	Pipes—Misc.	Ameron International Corporation- (Oahu)	\$	\$
Aluminum Floating Dock—Misc.		Bluewater Marine and Dock Specialties- (All Islands)	\$	\$
		High Seas Welding LLC dba JS Marine- (All Islands)	\$	\$
Signs—Traffic, Regulatory & Construction		GP Roadway Solutions, Inc.- (All Islands)	\$	\$
		Safety Systems and Signs Hawaii, Inc.- (All Islands)	\$	\$
Veneer		Big Rock Manufacturing- (All Islands)	\$	\$

Soil Amendments, Mulch, Compost		Eko Systems Inc. (Oahu) (Maui) (Hawaii) (Kauai)	\$		\$
		Hawaiian Earth Recycling LLC (All Islands)	\$		\$
		Island Topsoil LLC (All Islands)			
		Kauai Nursery & Landscaping, Inc. (All Islands)	\$		\$
		Molokai Seed Co. (All Islands)	\$		\$
	Sanford's Service Center, Inc. (Hawaii)	\$		\$	
Compost Filter		EnviroTech BioSolutions Hawaii, Inc. (All Islands)	\$		\$
		Certified Erosion Control Hawaii LLC (All Islands)	\$		\$
TOTAL			\$		\$

END OF SECTION

effect as if bound or copied directly into the Contract Documents to the extent referenced. Such standards are made a part of the Contract Documents by reference.

2. Publication Dates: Comply with standards in effect as of date of the Contract Documents, unless otherwise indicated.
3. Conflicting Requirements: If compliance with 2 or more standards is specified and the standards establish different or conflicting requirements for minimum quantities or quality levels, comply with the most stringent requirement. Refer uncertainties and requirements that are different, but apparently equal, to Contracting Officer for a decision before proceeding.

1.03 CONTRACT

- A. Refer to Division 1 – General Requirements.
- B. Construction Window:
 1. See 3.01 for Project Schedule.
- C. Project Schedule:

Schedule is presented for information and planning purposes. Dates and activities are subject to adjustments. See Part 3 paragraph titled “Project Schedule”.

1.04 WORK SEQUENCE

- A. The Work will be conducted in a single construction phase.

1.05 USE OF PREMISES AND WORK RESTRICTIONS

- A. General: Contractor shall have full partial use of premises for construction operations. Contractor’s use of premises is limited only by State’s right to perform work or to retain other Contractors on portions of the project site.
- B. Contractor’s use of premises is restricted as follows:
 1. Construction Times and Schedule:
 - a. Night, weekend, holiday and overtime work is not allowed, except with the prior written approval of the Contracting Officer.
 - b. Business hours are considered **7:00 a.m. – 3:30 p.m.** on Mondays through Fridays.
 2. Site Access and Parking:
 - a. Parking: Parking for the Contractor’s employees (or Subcontractors) will be limited to the available areas within the designated Project Contract Limits or in areas designated by the Contracting Officer. Do not use parking stalls in regularly designated parking zones within the facility grounds. Unauthorized vehicles parked in marked stalls and in any area outside of the designated project construction site will be subject to towing at the Contractor’s expense.
 - b. Maintain access to the Loading area through Project Contract Limits.

SECTION 15193 - FUEL SYSTEMS (GASOLINE/DIESEL)

PART 1 - GENERAL

1.01 SUMMARY

- A. This Section includes gasoline and diesel fuel systems.
- B. Related Sections include the following:
 - 1. Section 15000 – General Mechanical Requirements.
 - 2. DIVISION 16 – ELECTRICAL.

1.02 GENERAL REQUIREMENTS

- A. Contractor shall inform Engineer of testing date a minimum of seven (7) calendar days prior to testing system.
- B. Provide all necessary labor, delegated design, materials, operations, equipment, tools and techniques required to furnish, install and test complete the fuel systems work as and within the limits indicated.
- C. Submit written request for interruption of the existing fuel system not less than thirty (30) calendar days prior to the time for which the interruption is requested.
- D. Prospective bidders shall visit the premises and familiarize themselves with all work details and conditions before submitting a bid. Reasonable modifications to indicated arrangements to suit actual conditions shall not constitute a basis for requesting additional funds from the State.
- E. Prior to ordering materials and equipment, the Contractor shall field verify all existing conditions, materials, sizes and dimensions that affect their work, and shall coordinate their work with all trades involved.
- F. Obtain all permits and pay the costs thereof. Arrange for inspections in sufficient time to avoid delay to the project. Provide copies of inspection reports.

1.03 LAWS, RULES, REGULATIONS AND REFERENCES

- A. The entire installation shall comply with the latest applicable rules and regulations of the County of Maui, the State of Hawaii, and any other applicable laws, codes, rules and regulations whether or not specifically mentioned hereinafter.
- B. Codes:
 - 1. Building Code, County of Maui.
 - 2. Fire Code, County of Maui.
- C. References:
 - 1. American Petroleum Institute (API) Publications
 - a. Spec 6D-14 Specification for Pipeline Valves

2. American Society of Mechanical Engineers (ASME) Publications
 - a. B16.21-13 Nonmetallic Flat Gaskets for Pipe Flanges
 - b. B16.39-14 Malleable Iron Threaded Pipe Unions: Classes 150, 250, and 300
 - c. B16.5 Pipe Flanges and Flanged Fittings: NPS 1/2 Through NPS 24, Metric/Inch Standard
3. American Society for Testing and Materials (ASTM) Publications
 - a. A312-14 Standard Specification for Seamless, Welded, and Heavily Cold Worked Austenitic Stainless Steel Pipes
4. National Fire Protection Association (NFPA) Publications
 - a. 30-12 Flammable and Combustible Liquids Code
 - b. 70-14 National Electrical Code
5. Underwriters Laboratories (UL) Publications
 - a. 330-09 Standard for Hose and Hose Assemblies for Dispensing Flammable Liquids
 - b. 567-03 Standard for Emergency Breakaway Fittings, Swivel Connectors and Pipe-Connection Fittings for Petroleum Products and LP-Gas
 - c. 674-11 Standard for Electric Motors and Generators for Use in Division 1 Hazardous (Classified) Locations
 - d. 698A-12 Standard for Industrial Control Panels Relating to Hazardous (Classified) Locations
 - e. 1203-13 Standard for Explosion-Proof and Dust-Ignition-Proof Electrical Equipment for use in Hazardous (Classified) Locations

1.04 SUBMITTALS

- A. Submit in accordance with Section 01330 Submittal Procedures and Section 15000 General Mechanical Requirements.
- B. Shop Drawings
 1. The Contractor shall submit shop drawings showing the entire work and dimensions. Contractor shall check project drawings to avoid interferences. No fuel system work shall commence until such plans have been approved and accepted by the Engineer. Any deviations from the shop drawings shall require approval by the Engineer.
- C. Submit the following:
 1. Manufacturer's product data.
 2. Shop drawings.

3. Safety Data Sheets.
4. Test reports.
5. As-built drawings.
6. Certificates.
7. One-Year Guarantee.
8. Operation and Maintenance Manual.
9. Aboveground Fuel Storage Tank Warranty (30-year). The Surety and the Contractor shall not be held liable beyond two (2) years from Project Acceptance Date.

1.05 NOTICES AND OTHER REQUIREMENTS

- A. The Contractor shall submit to the Fire Prevention Bureau the following:
 1. Fuel storage tank permit application with one (1) set of installation and upgrade drawings.

1.06 ELECTRICAL WORK

- A. Contractor shall provide all wiring, conduits, controls, and disconnects for equipment. Contractor is responsible for coordination of size, voltage, phase, auxiliary contacts, etc. Should any equipment require electrical service or wiring other than as shown on the electrical drawings, inform the Engineer and advise the Electrical Contractor of such changes. All control devices must be installed to operate within the manufacturer's rated current and voltage. All control circuits must be through the respective equipment's disconnect to ensure the control circuit being off when equipment disconnect is off. All switches, starters, wiring devices and controls mounted where exposed to weather shall have Type 316 stainless steel NEMA 4X enclosures. Wiring materials and methods shall conform to DIVISION 16 - ELECTRICAL, applicable National Electrical Codes, and NEMA standards.

PART 2 - PRODUCTS

2.01 PRODUCT CARRIER PIPE AND FITTINGS

- A. Stainless Steel Pipe (Aboveground): Type 316 stainless steel, ASTM A312, Schedule 40.
- B. Flanges: Provide flanged end connections on system components **including fittings, piping, piping components**, adapters, ~~couplers~~, and valves that conform to ASME B16.5, Class 150. Stainless steel flanges must conform to ASTM A182/A182M, Grade F304, forged type.
- C. **Fittings:**

Fittings for pipes 2-1/2" and larger must be butt welded.

Fittings for pipes 2" and smaller must be butt welded or socket welded.

- D. Flange Gaskets: Provide non-asbestos compressed material in accordance with ASME B16.21, 1/16 -inch thickness, full face or self-centering flat ring type. Gaskets shall contain aramid fibers bonded with styrene butadiene rubber (SBR) or nitrile butadiene rubber (NBR). NBR binder shall be used for hydrocarbon service.
- E. Joint Compound: Joint compound for piping system shall be resistant to water and be suitable for use with fuel containing 40 percent aromatics.
- F. Pipe Supports: Supports must be the adjustable type conforming to MSS SP-58, except as modified herein. Provide Type 316 Stainless Steel rods, nuts, bolts, washers, hangers, and supports.

2.02 VALVES

- A. Ball Valve: Valve shall be the non-lubricated, double seated, ball type that conforms to API Spec 6D **for valves 2" and larger**. Valve shall operate from fully open to fully closed with 90 degree rotation of the ball. Valve shall be capable of 2-way shutoff. Valve shall be constructed of Type 316 stainless steel. Valves shall have one piece bodies and shall have a minimum bore not less than 55 percent of the internal cross sectional area of a pipe of the same nominal diameter.

Actuator (for motorized ball valves only): The electric valve actuator must include as an integral unit the electric motor, actuator unit gearing, and wiring terminals for power. The electrical enclosure must be specifically approved by UL or Factory Mutual for installation in Class I, Division 1, Group D locations. The electric motor must be specifically designed for valve actuator service and must be totally enclosed, non-ventilated construction. The actuator must have a local display of position even when power has been lost. A transformer, if needed, must be provided to supply all internal circuits with 24 VDC or 110 VAC may be used for remote controls.

- B. Check Valve: Valve shall be the full-opening, tilting disc, non-slam, swing type. **Valves 2" and larger shall conform** to API Spec 6D. Discs and seating rings shall be renewable without removing from the line. The disc shall be guided and controlled to contact the entire seating surface. Valve body must be constructed of 316 Stainless Steel.
- C. Solenoid Valve (anti-siphon ~~motorized ball~~ valve): 2-way, normally closed (i.e. powered open), solenoid operated valve with 316 stainless steel body and FKM elastomeric seal. 120 volt AC, 60 Hz, Type 7, explosion proof Class 1, Division 1, Group A, B, C, D enclosure. Valve shall be ASCO series, Magna-Trol or approved equal.
- D. Pressure / vacuum relief valve: Valve must be the pressure/vacuum vent relief type that conforms to NFPA 30. Valve pressure and vacuum relief settings must be set at the factory. Pressure and vacuum relief must be provided by a single valve. Valve body must be constructed of 316 Stainless Steel or Marine grade aluminum. Valve trim must be stainless steel. Inner valve pallet assemblies must have a knife-edged drip ring around the periphery of the pallet to preclude condensation collection at the seats. Pallet seat inserts must be of a material compatible with the fuel specified to be stored. Valve intake must be covered with a 40 mesh stainless steel wire screen.

- E. Foot Valve: Valve must be the self-activating, double-poppet, shutoff type that prevents fuel flow from reversing. Valve must conform to NFPA 30. Valve body must be constructed of either 316 stainless steel. Valve must be provided with a minimum 20 mesh stainless steel screen on the intake. Valve seats must be the replaceable type. Valve must be capable of passing through a 3 inch pipe or tank flange.

2.03 UNIONS

- A. Unions shall conform to ASME B16.39, Class 150. Unions materials shall conform to ASTM A312, Grade 316. Dielectric unions shall conform to dimensional, strength, and pressure requirements of ASME B16.39, Class 150. Union shall have a water-impervious insulation barrier capable of limiting galvanic current to one percent of the short-circuit current in a corresponding bimetallic joint. When dry, union shall be able to withstand a 600-volt breakdown test.

2.04 FLEXIBLE PIPE CONNECTOR

- A. Connector shall be the flexible, close pitch, metal hose type that is constructed with exterior annular corrugations and provided with a single layer of braided wire sheath covering. Connectors shall be constructed entirely of stainless steel and be rated for the system working pressure and temperature.

2.05 ABOVEGROUND FUEL STORAGE TANK

- A. All tanks, panels, appurtenances, and accessories shall be furnished from the same supplier. Aboveground fuel storage tank shall be double-wall, horizontal, protected type, listed and tested in accordance with UL 2085. Capacity of the tank shall be as listed on the drawings. Tank shall be constructed in accordance with UL 142. Annular space insulation material shall be a minimum of 3-inches thick, and shall be UL 2085 listed. Provide a factory-assembled unit that includes a factory-fabricated primary storage tank and an integral secondary containment. Tank assembly must be in accordance with NFPA 30, NFPA 30A, NFPA 31 and be designed and manufactured for a horizontal cylindrical installation. Primary storage tank must be factory-welded, TP 316 stainless steel that conforms to UL 142. Tank assembly must be mounted on the tank manufacturer's standard UL listed support skid that elevates the tank assembly above the underlying concrete slab or support saddles. Tank assembly must have lifting lugs that allow tank relocation. Provide tank assembly with the stairway and platform assembly, except as modified herein. The stairway and platform assembly must be constructed of structural steel TP 316 stainless steel and/or fiberglass reinforced plastic (FRP). Provide stairway and platform as indicated on the drawings. Tank shall bear the UL 2085 label for "Insulated Secondary Containment Aboveground Tank for Flammable Liquids" and provided with a minimum 30-year warranty.
- B. Double Wall Steel Tank (Fire-Resistant, Protected): The secondary containment (outer) tank must be a factory-fabricated, TP 316 stainless steel, tank that fully-encloses the primary storage tank and must conform to UL 142. The interstitial space between the primary tank and the containment tank must be both pressure testable and verifiable. The entire tank assembly must conform to UL 2085 and bear the UL 2085 label. The primary storage tank must be supported within the containment tank with steel tank saddles, or other similar supports, fabricated and installed by the tank manufacturer.

- C. Exterior Surfaces, Aboveground Tanks: Exterior surfaces of aboveground tanks may be either coated with the manufacturer's standard coating system or left bare if tank is 316 stainless steel construction.
- D. Fuel Storage Tank Accessories.
1. Emergency Tank Vents: Vent must be the normally-closed, UL listed type that vents outward and upward. Vent must conform with NFPA 30 and UL 142 and must be sized by the tank manufacturer. Provide vent with the cubic feet per minute (cfm) rating permanently labeled on the vent's exterior. For double wall or protected type tanks, provide a second emergency vent to protect the interstitial space.
 2. Atmospheric Vent: Provide an atmospheric vent conforming to applicable requirement of NFPA 30 or NFPA 30A. Vent pipe shall terminate at least 12 feet above grade or 2 feet above and located so that discharged vapors will not enter building openings, under building eaves, or downspouts.
 3. Mechanical Clock Gauge: Gauge must be the level sensing, mechanically actuated type that provides the tank level readout in a sealed glass cap contained in a gauge box. Gauge must be accurate to plus or minus 1/4 inch and must measure the liquid level over the full range of a tank's height. Gauge must have vapor tight seals to prevent condensation from fogging the viewing glass.
 4. Dielectric Bushings: Provide nylon dielectric bushings on metallic piping connections to steel tanks.

2.06 FUEL STORAGE MONITORING SYSTEM

- A. Fuel storage tank monitoring system shall be ~~NEMA 4X enclosure with~~ automatic tank gauging, interstitial space leak sensor, integral printer with 5 spare rolls of printer paper, inventory probe, leak sensors, digital and analog outputs. All components of the system shall be provided by a single manufacturer. Monitoring system shall be housed in a Type 316 stainless steel NEMA 4X enclosure.
- B. The control panel shall be constructed of UL listed, electronic components. The control panel power source shall be 120 volts A.C. The tank gauge probe and sensor monitoring circuits shall be intrinsically safe circuits. Panel shall incorporate self-test system, which will permit operator verification of proper operation of leak detection equipment.
- C. The control panel shall include a power on light, alarm light and bell or horn, alarm test button and silence switch, alarm dry contact and alpha-numeric display. The system shall activate the panel alarm light and bell for high or low tank levels and leak detection.
1. Setpoints: Configure the alarm system's 2 setpoints in accordance with the following:
 - a. High Level Setpoint. Produce an alarm condition when a tank's liquid level rises above 90 percent capacity.
 - b. Low Level Setpoint. Produce an alarm condition when a tank's liquid level drops below the minimum pump submergence level at 5.
- D. The factory assembled, internal tank gauge probe shall be fitted to the tank and shall conduct monthly automatic tank gauging and testing.

- E. Tank basin space leak sensor shall be factory fabricated, with a two wire cable long enough to locate the sensor at the bottom of the tank interstitial space. The sensor shall detect any liquid in the basin and trigger an alarm.
- F. Panel shall be in a NEMA enclosure suitable for the environment and have an audible and visual alarm for each zone and include acknowledgement switch and rechargeable battery backup capable of operating the **level alarm and leak detection alarm** system continuously for a minimum of 48 hours. Panel shall incorporate self-test system which permits operator verification of proper operation of leak detection equipment. Mount panel as indicated. Provide instructions and equipment required for calibration of leak detection system and manufacturer's recommend calibration maintenance schedule.

2.07 PRODUCT DISPENSING UNIT

- A. Dispensers, dispenser pumps, hoses, nozzles, and fuel management controller shall all be furnished by the same supplier.
- B. Provide dispenser, single sided, **remote type**, with one hose outlets each suitable for single product delivery flow rate of 22 gallons per minute from each nozzle. Steel frame shall be capable of resisting normal vertical and lateral loads. Exterior panels shall be stainless steel with embossed brush finish. Dispenser shall be furnished with a single integral **suction** pump.
- C. Internal Filters: Replaceable filter element on each product line with a nominal filtration efficiency of **25-microns 10 microns for gasoline or 30 microns for diesel** with a flow rating equal to the rate of the dispensing unit.
- D. ~~Internal~~ Strainer: 80-mesh removable strainer included in filter adapter housing. One strainer per hose position. **Furnish dispenser with external canister type or internal spin-on style strainer.**
- E. Accessories: Equip dispensing unit with accessories such as built-in air eliminators, line check valves, and emergency shut-off valve. Install centering ring or stabilizer bar to ensure proper shearing action for emergency shut-off valve if the dispensing unit is knocked from its supports.
- F. The dispenser shall be provided with integral relay capable of signaling tank control panel when fuel is flowing.
- G. Hose: Provide dispensing hose conforming to UL 330, gasoline and oil resistant, statically grounded, flexible in sub-zero temperatures. Provide a minimum of 12 -feet of hose for each product line on the dispenser. Provide each hose with spring loaded cable to return device attached near mid-length of hose.
- H. Nozzles: Dispensing nozzles shall be automatic shutoff type, **304 or 316** stainless steel, **or aluminum**, without latch-open device, aluminum body, and full hand insulator to prevent splash-back. **Acceptable grades of aluminum include 5052, 5083, and 6061. If aluminum nozzle is selected, nozzle must be furnished with interior Teflon coating.**
- I. Breakaway Device: Provide each product hose with UL listed emergency breakaway device designed to retain liquid on both sides of breakaway point. Breakaway device

shall have pressure balancing chamber to override line pressure to prevent nuisance breaks caused by a restriction in delivery hose diameter.

- J. Dispenser shall be capable of interfacing with fuel management controller.
- K. Under-Dispenser Sump: Aboveground stainless steel dispenser containment sump, includes interchangeable upper frame and stabilizer bar assemblies.
- L. Flexible Connectors: Flexible metal hose, corrugated type with braided wire sheath covering, close-pitch annular corrugations, rated for working pressure of at least 125 psig, 12 -inch minimum live length, threaded end connections and shall conform to requirements of UL 567. Metal for hose and braided wire sheath shall be ANSI 300 series stainless steel.

2.10 FUEL MANAGEMENT CONTROLLER

- A. Controller shall be capable of interfacing with a minimum of 2 dispensing units.
- B. Controller shall be capable of RFID tag recognition.
- C. Include a color LCD high brightness display.
- D. Furnish with stainless steel or aluminum housing. Acceptable grades of aluminum are 5052, 5083, and 6061.
- E. Unit shall contain an integral wireless gateway and also be capable of hard-wire data connection.
- F. Unit shall contain a compact, self-contained outdoor printer.

2.11 FUEL STORAGE TANK REMOTE FILL PORT

- A. ~~Automatic fuel port.~~ Post mounted standard fuel port with NEMA-4X lockable Type 316 stainless steel enclosure, ~~OPW Kamvalok dry disconnect coupler,~~ quick disconnect hose coupling with dust plug, check valve, and ground stud.

2.12 DIESEL EXHAUST FLUID CONTAINER

- A. Container shall have a capacity of 55 gallons and made of a material that is fuel resistant including stainless steel, polyethylene, or polypropylene or approved equal. Container shall be furnished with air hand pump and DEF fuel supply nozzle with 12' hose. DEF container shall be provided within 316 stainless steel or FRP housing per drawings.

2.13 PIPING IDENTIFICATION

- A. Aboveground Piping: For pipes 3/4 inch OD and larger, provide printed legends to identify contents of pipes and arrows to show direction of flow. Color code label backgrounds to signify levels of hazard. Make labels of plastic sheet with pressure-sensitive adhesive suitable for the intended application. For pipes smaller than 3/4 inch OD, provide brass identification tags 1-1/2 inches in diameter with legends in depressed black-filled characters.

Warning Tape Color Code

Yellow: Gas, oil, petroleum or gaseous materials.

Orange: Communication, alarm or signal lines, conduit, telephone, fiber optic cable.

2.14 MISCELLANEOUS METALS

- A. Preformed slotted channel system components used in supports and brackets shall be Type 316 stainless steel, Unistrut Corporation or approved equal.

2.15 ACCESSORIES

- A. Concrete Anchor Bolts: Concrete anchors must conform to ASTM F593, Grade C, TP 316 stainless steel.
- B. Bolts and Studs: TP 316 stainless steel bolts and studs must conform to ASTM A193/A193M, Grade 8.
- C. Nuts: TP 316 stainless steel nuts must conform to ASTM F593, Grade A, hex style, hot-dipped galvanized. Stainless steel nuts must conform to ASTM A194/A194M, Grade 8.
- D. Washers: Provide flat circular washers under each bolt head and each nut. Washer materials must be the same as the connecting bolt and nut. Stainless steel washers must conform to ASTM A194/A194M, Grade 8.

PART 3 - EXECUTION

3.01 INSTALLATION

- A. General:
 - 1. All piping, tank, and equipment shall be properly installed in accordance with the manufacturer's recommendations.
 - 2. Installation shall comply with the requirements set forth in NFPA 30 and NFPA 31.
 - 3. No work of any kind shall be undertaken until all necessary materials are available at the job site for this project.
- B. Protection of Materials and Equipment: Pipe and tank openings shall be closed with caps or plugs during installation. Equipment shall be tightly covered and protected against entry of dirt, water and chemical or mechanical injury.
- C. Pipe Installation
 - 1. General: Piping system shall be stainless steel. Piping connections to equipment shall be as required by equipment manufacturer. Threaded or mechanical joints shall be allowed at termination points of product carrying lines only. When work is not in progress, close open ends of pipe and fittings so that foreign substances cannot enter. Replace pipe, fittings, or appurtenances found defective after installation. Make threaded joints with tapered threads and make tight with joint compound; compatible with intended petroleum products, applied to male threads only.

2. Handle pipe and accessories to ensure sound, undamaged condition. Piping shall be free of traps.
 3. Fuel piping shall be pressure tested, inspected and approved by the Engineer.
 4. All threaded joints shall be made liquid tight with suitable sealant.
 5. All piping shall be inspected inside and out before installation and no obstructions shall be allowed. Pipe ends shall be taper reamed to full I.D. and all burrs removed.
- D. The Contractor shall fill the tank with the appropriate fuel. After all tests and inspections have been conducted, the Contractor shall refill the tank prior to final acceptance.
- E. Dispensing System: Install dispensing systems per manufacturer's written instructions.
- F. AST Fill System: Install AST fill system per manufacturer's written instructions.

3.02 ELECTRICAL WORK

- A. Provide switches and devices required for controlling electrical equipment. Electrical installations shall conform to requirements of NFPA 70.

3.03 PIPE SUPPORTS

- A. Install supports for all piping to provide for expansion and contraction, prevent vibration and maintain required grading by proper adjustment.
- B. Field verify type of construction from which piping and/or equipment is to be supported.
- C. Pipes shall be supported at all elbows, branches and ends.
- D. Grind and smooth all sharp metal edges including struts and fabricated metal supports. Install end caps on the ends of all struts.

3.04 TESTING AND INSPECTION

- A. Contractor shall furnish all labor, equipment and instruments for tests and any required retests and pay for all cost of repairing any damage resulting from such tests. Contractor shall adjust systems until they are approved. Tests shall be performed in the presence of, and to the satisfaction of the Engineer. Qualified manufacturer's representatives shall conduct all tests and inspections for the tank piping, dispensers, and fill port system.
- B. The Contractor shall notify the Engineer no less than seven (7) days in advance of any equipment testing so that arrangements can be made to monitor the equipment tests.
- C. Aboveground Storage Tank Tightness Tests: Perform tightness tests on each aboveground storage tank prior to making piping connections. Perform testing in accordance with STI 700-50-5007 (STI R912) except as modified herein. Gauges used to monitor the tests must have a scale with a maximum limit of 15 psig. Repair leaks discovered during the tightness tests in accordance with tank manufacturer's instructions. **Alternatively, tanks shall be delivered to site equipped with vacuum gauge confirming tank integrity is uncompromised and vacuum is maintained in tank**

interstitial space. Following any repair, re-test the tank until the tank successfully passes the testing requirements of this paragraph.

- D. Aboveground Storage Tank Manufacturer's tests: In addition to the tests required herein, perform any additional tests that is required by the tank manufacturer's written test procedures. Manufacturer's tests that are redundant to tests already required by this specification will only be performed once per tank. Repair all leaks discovered during the tests in accordance with manufacturer's instructions. Following tank repairs, re-test the tank until the tank successfully passes the manufacturer's testing requirements.
- E. Tank fill tests: Initially fill each storage tank with fuel in order to verify the tank level alarm system operates properly. Drain the system below the low liquid level setpoint to verify operation of the low-level alarm. Correct and retest any problems with the level alarm system until it operates as specified herein. During the tests, verify that all tank gauges are calibrated and operating appropriately.
- F. Aboveground Storage Tank Inspection: It is the contractor's responsibility to provide an STI SP001 certified inspector who must inspect the completed aboveground tanks in accordance with STI SP001 and deliver a full report to the Engineer. The report must include the tank data plate information and photograph of the tank data plate. The paper and electronic copies of the report must be provided to the Engineer for filing with the tanks' "As-Built" drawings as delineated in Section 01770 Closeout Procedures.

3.05 FLUSHING AND OPERATIONAL TEST

- A. Do not install dispensing units during flushing and cleaning of piping. Install temporary piping or hose equipped with a strainer having not less than 40-mesh screen between supply pipe and tank fill connection on tank from which fuel is being pumped. Furnish temporary pump for flushing. Flush each dispensing system with same type of fuel intended for use in system until outflowing fuel is "clean" and "bright": clean means absence of sediment or emulsion; bright refers to fluorescent appearance of fuel that has no cloud or haze. Test each system to demonstrate performance requirements for which it was designed. Test shall include unloading fuel trucks to demonstrate effectiveness of fill port system. Operate fuel dispensing equipment to demonstrate capability of fuel pumps to deliver desired flow and draw storage tank contents to level of pump inlet. When a portion of each system or a piece of equipment fails to pass tests, make repairs or adjustments and repeat test until satisfactory performance is achieved. Tests shall be witnessed by the Engineer, and the Contractor shall notify the Engineer a minimum of seven (7) days before testing. Furnish calibrated instruments and equipment, as well as the fuel, required to clean and flush each system and to conduct tests. Replace filters Upon completion of tests.

3.07 FUEL DISPENSERS

- A. Test the dispensing units per the manufacturer's recommendations.

3.08 ABOVE GROUND STORAGE TANK (AST) FILL PORT SYSTEM

- A. Test the AST fill port system per the manufacturer's recommendations.

3.09 PROTECTION

- A. Provide planking, plastic sheeting, or other protective covering as required to prevent damage during construction to existing building elements and equipment. Damage to materials, equipment or building due to the Contractor's neglect shall be repaired or replaced to the satisfaction of the Engineer by, and at the expense of, the Contractor. Be prepared to immediately repair any damage that does occur during any operations, so as to avoid damage to building or contents or interruption of State's operations.

3.10 INSPECTION

- A. Acceptance of the work will not take place until after discrepancies noted by the Engineer have been corrected to the satisfaction of the Engineer.

3.11 TECHNICAL SUPPORT

- A. The fuel systems equipment supplier shall be staffed with factory trained representatives fully capable of providing instruction on routine and emergency maintenance service on all system components supplied for this project.
- B. Suppliers shall provide on-site instruction, when requested by the Contractor or the Engineer, at no additional cost to the State.

3.12 USER TRAINING SESSION

- A. Contractor shall provide a minimum of four (4) hours of training for user personnel. Training shall be given by the equipment manufacturer's representative. Schedule training a minimum of fourteen (14) calendar days in advance.

3.13 CLEAN UP

- A. Upon completion of this work, remove all debris and excess materials, tools, etc. resulting from this work from the job site and leave the location of this work broom-clean in an acceptable manner as approved by the Engineer. All fuel system equipment shall be thoroughly cleaned and ready for use.

PART 4 - MEASUREMENT AND PAYMENT

4.01 BASIS OF MEASUREMENT AND PAYMENT

- A. All work specified in this section shall not be measured nor paid for separately but shall be considered incidental to Bid Item No. 4 – Fueling Systems, of the Proposal and Proposal Schedule.

END OF SECTION

PRE-BID MEETING MINUTES

MAUI DISTRICT BASEYARD OFFICE EXPANSION & RENOVATION, PART 2 PROJECT NO. HWY-M-03-21, Phase 2

Wednesday, September 21, 2022, 9:00 a.m.
Maui District Baseyard

1. Introduction
 - a. Introduction of meeting attendees.
 - b. Anything stated at this meeting is for clarification only. The bid documents shall govern over anything discussed at this meeting and any discrepancies shall be clarified by addendum.
2. General Project Overview
 - a. Replacement of electrical panelboards with new underground conduit connections.
 - b. Replacement of fuel tanks and fueling equipment.
 - c. Replacement of concrete foundation for fuel tanks and equipment.
 - d. Installation of new fuel management controller with underground telecommunication and electrical connections.
 - e. Abatement of lead-containing paint with testing and air monitoring.
3. Critical Dates (as issued w/Bid Addendum No. 1)
 - a. Requests for Information Due September 30th, 2022 @ 4:30 pm
 - b. Last Day for Addendums October 7th, 2022 @ 2:00 pm
 - c. Bids Due October 14th, 2022 @ 2:00 pm
 - d. Construction Period 12 months from NTP
4. Special Project Considerations
 - a. Work Hours: 7:00 am to 3:30 pm, Monday to Friday.
 - i. Work on weekends or holidays or anytime outside of normal work hours is not allowed unless preapproved by the Engineer.
 - ii. Overtime costs incurred by the Contractor for their work shall be incidental to the contract.
 - iii. Overtime and associated travel costs for State's inspection and staff personnel shall be reimbursed by the Contractor.
 - b. Location of Contractor's staging and parking areas to be coordinated with and preapproved by the Engineer. Contractor shall not occupy or block the use any existing striped parking spaces.
 - c. Maintain vehicular access to all baseyard facilities at all times or as pre-approved by Engineer.
 - d. Contractor will be required to provide and erect temporary barriers to protect personnel during construction.

- e. Use of the baseyard toilet facilities is not allowed. Contractor shall provide their own portable toilet facilities.
 - f. Lead-containing and lead-based paints have been surveyed within the Project Limits. Survey report and required abatement procedures are included in the Contract Documents.
 - g. Contractor will not be required to provide alternate means of fueling during construction at fueling station.
 - h. Liquidated Damages: \$725 per calendar day.
5. Questions/Clarifications? Submit your questions/clarifications on HlePRO by Requests for Information Due Date of September 30th, 2022 by 4:30 p.m. An addendum will be issued with official responses to the questions/clarifications.
6. Site Visit
7. Adjourn

PRE-BID MEETING ATTENDANCE SHEET

MAUI DISTRICT BASEYARD OFFICE EXPANSION & RENOVATION, PART 2

PROJECT NO. HWY-M-03-21, PHASE 2

DATE: SEPTEMBER 21, 2022

TIME: 9:00 AM - 10:30 AM

LOCATION: MAUI DISTRICT ADMINISTRATIVE BUILDING, 650 PALAPALA DRIVE, KAHULUI, HAWAII 96732

NO.	NAME	COMPANY	PHONE NO.	EMAIL
1	Lannin Nakai	Neil Nakai Inc	[REDACTED]	[REDACTED]
2	Alwin Takushi	SOH Hwy Div Mech Sup	[REDACTED]	[REDACTED]
3	TY FUKUROKU	DOT HWYS	808-281-2771	TY.H.FUKUROKU@HAWAII.GOV
4	Ronald Toyama	Hybrid Electrical Services Inc	[REDACTED]	[REDACTED]
5	Landon Nakai	M. Nakai	[REDACTED]	[REDACTED]
6	Keoni Hill	EnviroServices	[REDACTED]	[REDACTED]
7	Jami Bartalan	SOH DOT HWY	[REDACTED]	[REDACTED]
8	Kevin Leo	SOH HWY	[REDACTED]	[REDACTED]
9	Yvonne Turro	The Limtraco Consulting Group	808-596-7790	yvonne@TLCHawaii.com
10				
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**MAUI DISTRICT BASEYARD OFFICE EXPANSION & RENOVATION, PART 2
PROJECT NO. HWY-M-03-21, PHASE 2
ISLAND OF MAUI**

ANSWERS TO QUESTIONS FROM PROSPECTIVE BIDDERS

1. Can the stairs for the fuel tanks be hot-dipped galvanized instead of stainless steel?
Stainless steel stairs have posed such difficulties that manufacturers even avoid shipping them to Hawaii.

RESPONSE: No, hot-dipped galvanized steel shall not be used instead of stainless steel due to Kahului's corrosive seaside environment. Per specification 15193 paragraph 2.05, fiberglass reinforced plastic may be used instead of 316 stainless steel. Alternatively, the contractor can fabricate the stainless steel stairs on site instead of ordering the complete assembly off island.

2. Can the exterior coating of the fuel tanks be excluded since the outer material is already 316 stainless steel?

RESPONSE: Yes, the exterior coating can be excluded since the tank material is 316 stainless steel. Specification 15193 paragraph 2.05 C has been updated to allow for 316 stainless steel aboveground tanks to be furnished with the exterior surfaces finished with either the manufacturer's standard coating system or left bare.

3. Is it essential to have the fuel storage monitoring system stored outside? Some manufacturers don't offer the NEMA 4X (meant for outdoor use) but they do produce the NEMA 4 (meant for indoor use). Would an indoor fuel storage monitoring system be acceptable?

RESPONSE: Panel with NEMA 4X enclosure shall be furnished per specification 15193 paragraph 2.06.A and located as shown on sheet M101. An indoor fuel storage system will not be accepted.

4. 2.06 para. C calls for an "alarm light and bell", however bells are an outdated feature on modern alarms. Instead a 95db horn is the current standard, is such a design acceptable in replacement of a system with a bell?

RESPONSE: Yes, a 95db horn may be furnished instead of a bell. Specification 15193 paragraph 2.06 C has been updated to allow for either horn or bell options.

5. 2.06 Para. F calls for the fuel tank panel to have a "battery backup capable of operating the system continuously for a minimum of 48 hours", however such a battery would be a high cost item. If the system will already be connected to the backup generator then a battery

backup is redundant. Given this explanation is it acceptable to submit a system without a battery backup?

RESPONSE: No. The tank monitoring panel is designed to be powered by circuit FSDP-6 and is not connected to an emergency backup generator as stated in question 5. The refueling station is not connected to a backup power source. Battery backup is necessary per specification 15193 section 2.06 paragraph F in case of power failure. This is a rechargeable battery backup and is meant only to provide power to the leak detection and level alarm system. This battery backup is not intended to provide power to the entire refueling facility (i.e., dispenser pumps, etc.).

6. 2.07 Para. H calls for a stainless steel nozzle, however we are not familiar with a stainless steel version of this product. Will this specification be upheld or will an exception be made for a product with a more common material (ex: Aluminum with Stainless Steel tip and Teflon-coated inside)?

RESPONSE: Specifications have been revised to include aluminum as an acceptable alternative for the fuel nozzles.

7. 2.10 Para. D specifies the Fuel Management Controller to have a stainless steel housing. There are manufacturers that offer such controllers but with aircraft-grade aluminum (which has shown to handle itself well in Hawaii's climate). Would this material be an acceptable substitute?

RESPONSE: Specifications have been revised to include aluminum as an acceptable alternative in this application.

8. May I get the attendees list from the pre-bid meeting?

RESPONSE: See PreBid Meeting Minutes included in this Addendum.

9. 15193-3 2.01 B. Flanges: Provide flanged end connections on system components, fittings, piping, piping components, adapters, couplers, and valves that conform to ASME B16.5, Class 150. Stainless steel flanges must conform to ASTM A182/A182M, Grade F304, forged type. Do they want all flange fittings? It is more expensive and accessories such as overfill prevention valve, etc. are also more expensive.

RESPONSE: Flanges are not required on all fittings. Provide flanged end connections per revised specification 15193 paragraph 2.01 for valves and adapters. Additional fitting information has been inserted as Specification Section 15193 paragraph 2.01.C to clarify required fitting types corresponding to pipe size.

10. 15193-4 2.02 A. Ball Valve: Valve shall be the non-lubricated, double seated, ball type that conforms to API Spec 6D. Valve shall operate from fully open to fully closed with 90 degree rotation of the ball. Valve shall be capable of 2-way shutoff. Valve shall be constructed of Type 316 stainless steel. Valves shall have one piece bodies and shall have a minimum bore not less than 55 percent of the internal cross sectional area of a pipe of the same

nominal diameter. API Spec 6D is refinery and pipeline spec, 2" and larger. API 607 is used extensively for similar projects as this project. Would this be acceptable?

RESPONSE: Valves 2" and larger shall conform to API Spec 6D.

11. 15193-4 2.02 B. Check Valve: Valve shall be the full-opening, tilting disc, non-slam, swing type that conforms to API Spec 6D. Discs and seating rings shall be renewable without removing from the line. The disc shall be guided and controlled to contact the entire seating surface. Valve body must be constructed of 316 Stainless Steel Same as above

RESPONSE: Valves 2" and larger shall conform to API Spec 6D.

12. 15193-4 2.02 C. Solenoid Valve (anti-siphon motorized ball valve): 2-way, normally closed (i.e. powered open), solenoid operated valve with 316 stainless steel body and FKM elastomeric seal. 120 volt AC, 60 Hz, Type 7, explosion proof Class 1, Division 1, Group A, B, C, Denclosure. Valve shall be ASCO series, Magna-Trol or approved equal. Substitution Request: Valworx Motorized Ball Valve (Simplex uses this on their equipment) [product data sheets can be provided]

RESPONSE: Ball valves satisfying specification section 15193 paragraph 2.02 A are eligible for approval. Product data for all valves shall be submitted for review and approval prior to installation.

13. 15193-6 2.06 F. Panel shall be in a NEMA enclosure suitable for the environment and have an audible and visual alarm for each zone and include acknowledgement switch and rechargeable battery backup capable of operating the system continuously for a minimum of 48 hours. Panel shall incorporate self-test system which permits operator verification of proper operation of leak detection equipment. Mount panel as indicated. Provide instructions and equipment required for calibration of leak detection system and manufacturer's recommend calibration maintenance schedule. Veeder Root provides data back up in event of power outage but not battery backup which enables the system to run for 48 hours. If they want 48 hour battery back up we will need to go with Pneumercator or Omntec.

RESPONSE: Battery backup is necessary per specification 15193 section 2.06 paragraph F. Note, this is a rechargeable battery backup and is meant only to provide power to the leak detection and level alarm system. This battery backup is not intended to provide power to the entire refueling facility (i.e., dispenser pumps, etc.).

14. 15193-6 2.06 C. Internal Filters: Replaceable filter element on each product line with a nominal filtration efficiency of 25 microns with a flow rating equal to the rate of the dispensing unit. Gasboy provides either 10 (gasoline) or 30 micron (diesel)

RESPONSE: Specification 15193 6 2.07.C pertains to internal filters. Specification have been revised to reflect filter requirements for the various fuels to be dispensed.

15. 15193-6 2.06 D. Internal Strainer: 80-mesh removable strainer included in filter adapter housing. One strainer per hose position Spec call for internal filter (spin-on). Strainer would have to be a separate unit.

RESPONSE: Specification 15193 paragraph 2.07.D pertains to strainers. External canister type strainer is also acceptable. Specifications have been revised accordingly.

16. 15193-6 2.07 PRODUCT DISPENSING UNIT B. Provide dispenser, single sided, remote type, with one hose outlets each suitable for single product delivery flow rate of 22 gallons per minute from each nozzle. Steel frame shall be capable of resisting normal vertical and lateral loads. Exterior panels shall be stainless steel with embossed brush finish. Dispenser shall be furnished with a single integral pump. This call for remote dispenser (which would require Red Jacket submersible). M101 Note C. calls for new dispenser with integral pump (suction pump). Please clarify which one is wanted.

RESPONSE: Integral suction pump shall be furnished. "Remote type" description has been removed from specifications.

17. 15193-7 2.11 FUEL STORAGE TANK REMOTE FILL PORT A. Automatic fuel port. Post mounted with NEMA 4X lockable Type 316 stainless steel enclosure, OPW Kamvalok dry disconnect coupler, quick disconnect hose coupling with dust plug, check valve, and ground stud. M501 Appears to show a standard Fuel Port (no controls). Automatic Fuel Port has a controller. Please clarify.

RESPONSE: Standard fuel port shall be provided. All required controls pertaining to tank fill, fuel level, and leak detection shall be monitored by tank Monitoring Control Panel (refer to sheet M101 for panel location). "Automatic fuel port" statement removed from specifications for clarity.

18. Spec Sec. 15193, Para. 2.06A requires the tank monitoring system to have a NEMA 4X enclosure. Since Veeder Root (the preferred manufacturer of the tank monitoring system) does not offer a NEMA 4X housing, would it be acceptable to install the Veeder Root tank monitoring panel, or any other non_NEMA 4X system) inside of a 3rd Party NEMA 4X enclosure, such as made by Hoffman/Pentair?

RESPONSE: Yes, this is acceptable. Specifications have been revised accordingly.

19. Spec. Sec. 15193, Para. 2.06F requires the fuel tank monitoring system to have a battery backup capable of OPERATING this system for 48-hours. Although the tank monitoring systems do come equipped with lithium batteries that can maintain programming/report data for far beyond 48-hours, they do not have the option to OPERATE the system. Typically, this is not required since the tank monitoring system is typically connected to the essential power panel that is connected to the emergency power generator. Providing a UPS battery that can operate the system for 48-hours would be cost prohibitive.

RESPONSE: The tank monitoring panel is designed to be powered by circuit FSDP-6 and is not connected to an essential power panel or emergency power generator. Because this refueling station is not connected to any emergency power supply, the battery backup is necessary per specification 15193 section 2.06 paragraph F. Battery backup and is meant

only to provide power to the leak detection and level alarm systems. This battery backup is not intended to provide power to the entire refueling facility (i.e., dispenser pumps, etc.).

20. Spec. Sec. 15193, Para. 2.07F requires the fuel dispenser to be provided with an integral relay capable of signaling tank control panel when fuel is flowing. Please define what the Tank Control Panel is. Is it the tank level and leak monitoring system, or is it the fuel management system? If neither, please explain what system this is.

RESPONSE: The Tank Control Panel in paragraph 2.07F is the "Tank Monitoring and Control Panel" shown on sheet M101. See also sheet M700 for controls diagram and sequence of operations of the Tank Control Panel.

21. Spec. Sec. 15193, Para. 3.04C requires a tank tightness test in accordance with STI 700-50-5007, however both the manufacturer of the UL-2085 tanks and the local certified tester that can do the SP001 test do not recognize that standard. Would it be acceptable to have the new tanks shipped with vacuum applied to the interstitial space and a vacuum gauge installed to indicate that the vacuum is intact upon arrival, which would confirm that the tanks are not leaking.

RESPONSE: Yes, a vacuum gauge can be used to monitor and verify the vacuum in the tank's interstitial space is intact during shipment and installation. Specifications have been revised to include this alternative.

22. 15193-4 2.02 Valve. C. Solenoid Valve (anti-siphon motorized ball valve): 2-way, normally closed (i.e. powered open), solenoid operated valve with 316 stainless steel body and FKM elastomeric seal. 120 volt AC, 60 Hz, Type 7, explosion proof Class 1, Division 1, Group A, B, C, D enclosure. Valve shall be ASCO series, Magna-Trol or approved equal. This calls for 120V, Drawing M700, above Baseyard Controls Wiring Schematic, it show 24V to the anti-siphon motorized ball valve. 15000-4 1.07 Discrepancies, B. Says Specs govern over Drawings. "Can we substitute a 120VAC solenoid valve in place of a 24VDC motorized ball valve? Motorized ball valves take several seconds to fully open and fully close which could cause damage to the fuel pumps."

RESPONSE: Yes, a 120 V solenoid valve can be furnished in place of a 24 VDC motorized ball valve. Contractor shall furnish solenoid valve per Specification section 15193 paragraph 2.02 C. Contractor shall coordinate controls wiring for 120 V solenoid valve and shall ensure valve can interface with control panel or be directly controlled to energize (open) and de-energize close based on the controls signal from the dispenser relay as indicated on sheet M-700.

23. Act 174 SB2384 was signed into law on 6/27, which removes the Hawaii Product Preference from construction projects.

RESPONSE: In accordance with ACT 175, SB2384 Bidders Hawaii Products Preference are not be applicable to this solicitation. Revised contract documents are included in this Addendum to remove all references to Hawaii Products Preference.

(End of Questions Received)