STATE OF HAWAII DEPARTMENT OF HAWAIIAN HOME LANDS

Land Development Division

NOVEMBER 26, 2018	
Date	

ADDENDUM NO. 3 TO INVITATION FOR BIDS

IFB-19-HHL-001 ANAHOLA FARM LOTS WATER PROJECT, PHASE II – WATER TANK REPLACEMENT & FACILITY IMPROVEMENTS

Notice to All Prospective Offerors

This addendum is hereby made a part of the contract documents for IFB-19-HHL-001, and it shall amend the said contract documents as detailed within this Addendum document.

APPROVED:

Norman L. Sakamoto, Administrator	
Land Development Division	
Department of Hawaiian Home Lands	
Please execute and immediately return the receipt below to Lands via facsimile to: (808) 620-9299, Mr. Wayne Naka Development Division.	-
Receipt of Addendum No. <u>3</u> for: ANAHOLA FARM I II- WATER TANK REPLACEMENT & FACILITY II Bids No.: IFB-19-HHL-001 , is hereby acknowledged.	,
Print:	
(Name)	(Title)
Name of Firm/Company	Date

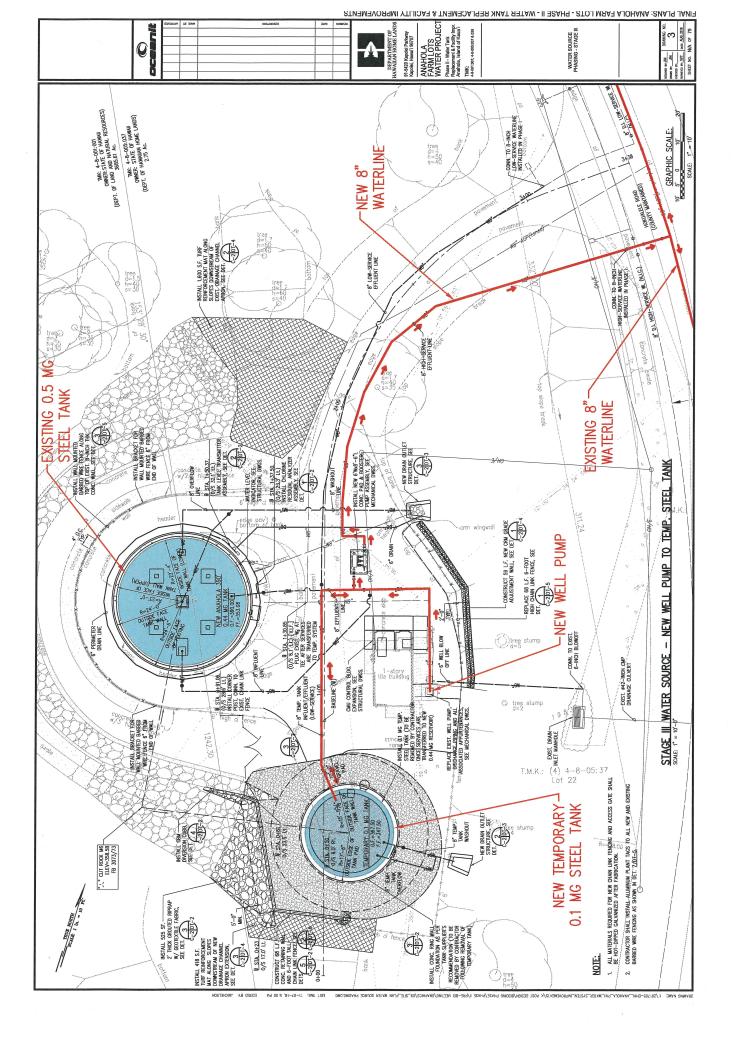
ADDENDUM NO. 3

IFB NO.: IFB-19-HHL-001 ANAHOLA FARM LOTS WATER PROJECT, PHASE I – WATER TANK REPLACEMENT & FACILITY IMPROVEMENTS PUBLIC WATER SYSTEM NO. 432 ANAHOLA, KAUAI, HAWAII

INCLUSIONS

This Addendum No. 3 shall incorporate the following amendments into IFB-19-HHL-001:

- 1. Add "Exhibit 3, Stage III Water Source" to Pre-bid Conference Minutes for the Pre-bid Conference held on November 8, 2018, 9:00 a.m., at DHHL Kauai District Office, 3060 Eiwa Street, State Building Conference room A, Lihue, Kauai. Pre-bid Conference Minutes were incorporated by Addendum No. 2 into IFB-19-HHL-001, however, "Exhibit 3, State III Water Source" was missing from the Exhibits.
- 2. Add DHHL response to **Request For Information (RFI) No.1**, received via email on November 13, 2018 requesting information for electrical and telephone service.
- 3. Add DHHL response to **Request For Information (RFI) No. 2**, received via email on November 19, 2018 requesting approval for Glenmount Global Systems for SCADA.
- 4. Add DHHL response to **Request For Information (RFI) No. 3**, received via email on November 20, 2018 requesting information on the chlorine residual analyzer.
- 5. Add DHHL response to **Request For Substitution** by Klopfenstein's Lighting, Inc., received via U.S.P.S. on November 9, 2018 requesting substitution of lighting fixtures.
- 6. Add DHHL response to **Request For Substitution** by Engineered Systems, Inc., received via email on November 16, 2018 requesting substitution for packaged line booster pumps system, pump control valve, air/vacuum valve, center-guided check valve.
- 7. Add DHHL response to **Request For Substitution** by Shearer & Associates, Inc., received via email on November 16, 2018 requesting substitution for temporary water tank.





HawaiiBusiness's 2018 Best Places to Work

94-408 Akoki Street, Suite 201-A Waipahu, Hawaii 96797 Phone: 808_836_7787 Telefax: 808_834_4833

LETTER OF TRANSMITTAL

TO:	Haw	aiian Dredging	Constr	uction Compa	any	\mathbf{D}_{ℓ}	ATE: N	ovember 20	, 2018 PROJ NO.:	IFB-19-HHL-001
	605	Kapiolani Blvd	l	-		A.	TTENTION:	Richar	d Halle	
	Hon	olulu, HI 9681.	3			RI			s Water Project Ph	
									cement and Facility	Improvements
							BK Tr	ansmittal N	Vo. 01	
WE	E ARE	E SENDING YO	U 🕡	Attached			Via:		email	the following items:
	Sho	p drawings		Prints		Plans		Samples	☐ Specif	fications
	Cop	y of letter		Change orde	er 🔲					
COPI	ES	DATE	NO.			,	DESC	CRIPTION		
1		11/20/18	1	RFI No. 1 - 1	Response to	sheets E-6, l	E-8, E-20, E	-21, DT-7 (1	equested by Wasa	Electric through HDCC
	-									
	_								<u> </u>	
	\dashv									
,										
THESE	ARE	TRANSMITTE	D as che	cked below:						
	For	approval		1	Approve	ed as submitt	ed	Resubi	mit copies	for approval
7	For	your use and in	nfo	[Approve	ed as noted		☐ Submi	t copies	for distribution
	As r	equested		[Returned	d for correcti	ons	Return	correc	ted prints
	For	review and con	nment	[See F	Remarks				· · · · · · · · · · · · · · · · · · ·
	FOR	BIDS DUE		-		20)	☐ PRINT	S RETURNED AFT	ER LOAN TO US
REMA	RKS	See commer	nts in bl	ue on the atta	ched in resp	onse to the l	RFI for sheet	ts E-6, E-8,	E-20, E-21 and DT	<u>-7</u>
COPY 7	го: 1	Wayne Nakamu	ra, DH	HL						
	_	oshua Miyamo						. 1	A 1	
	_	iles					SIGNED	for ()	Wistos Riolto	
				n the first section of the distribution of the control of the cont				Steve Ie	entile Rowers +	Kubota Consulting



Nakamura, Wayne H

From:

Steve lentile <sientile@bowersandkubota.com>

Sent:

Friday, November 23, 2018 1:00 PM

To:

'Richard Halle'

Cc:

Nakamura, Wayne H; Charissa Riofta

Subject:

RE: Anahola, Phase II: RFI (WASA Electric through HDCC) RESPONSE

Attachments:

Response RFI No. 1 Electrical _ sheets E-6, E-8, E-20, E-21, DT-7 requested by Wasa.pdf

Richard; Please see attached B+K Transmittal No. 07; Response - RFI No. 1: Electrical (sheets E-6, E-8, E-20, E-21, DT-7) – as requested by Wasa.

Thanks

Steve lentile

Bowers + Kubota Consulting Bowers + Kubota Management

HawaiiBusiness' 2018 Best Places to Work

Mobile: (808) 286-3830

Main Office: (808) 836-7787 / (808) 833-1841

Fax: (808) 834-4833

Please consider the environment before printing this e-mail

From: Richard Halle < rhalle@hdcc.com Sent: Tuesday, November 13, 2018 12:35 PM

To: Nakamura, Wayne H < wayne.h.nakamura@hawaii.gov >

Subject: FW: Anahola Farm Lots - Electrical RFIs

Rfi's from Wasa Electric

From: Joshua Miyamoto [mailto:jmiyamoto@wasahawaii.com]

Sent: Tuesday, November 13, 2018 12:03 PM

To: Richard Halle < <u>rhalle@hdcc.com</u>> **Subject:** Anahola Farm Lots - Electrical RFIs

Richard.

Please see attached for details on RFIs.

- Are the existing Weather heads for Electrical and Telephone services to be reused?
 - o If not please provide details on roof penetration, routing, and location
- Details show routing to exterior pump as being underground. Please confirm we need to sawcut and patch.
 - If not please provide details on routing for surface mount
- Fence detail missing info
- HTCO/SIC tie in
 - Please provide information and definition of scope

Thank you, Joshua Miyamoto November 21, 2018

Project:

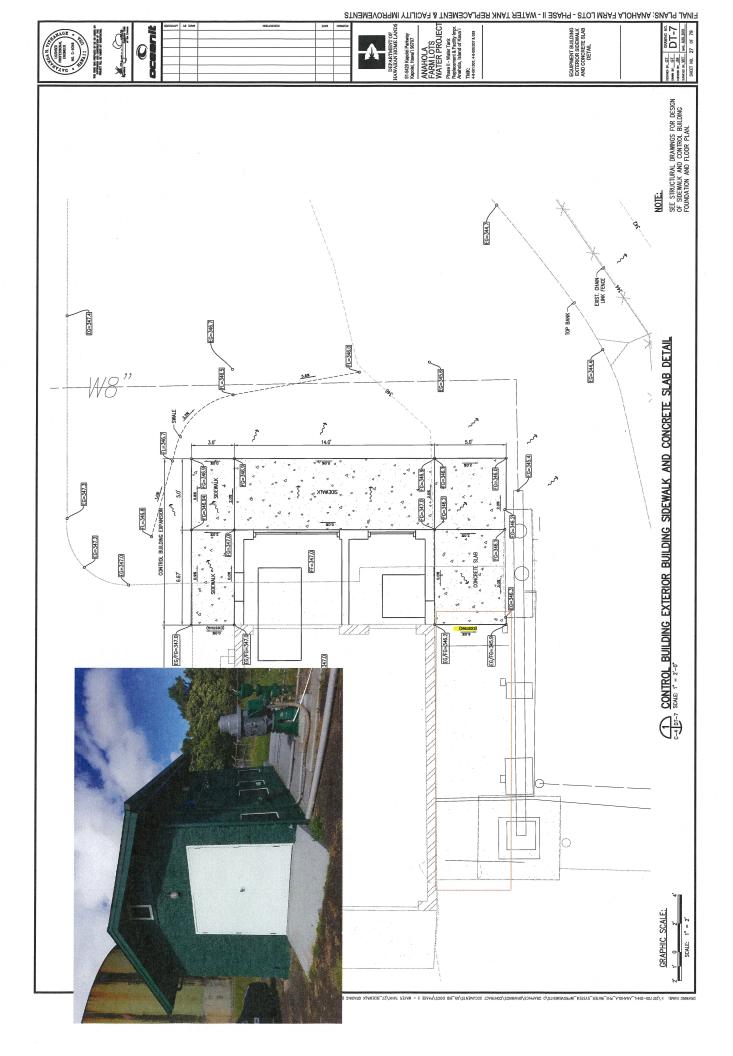
DHHL Anahola Farm Lots Water Project

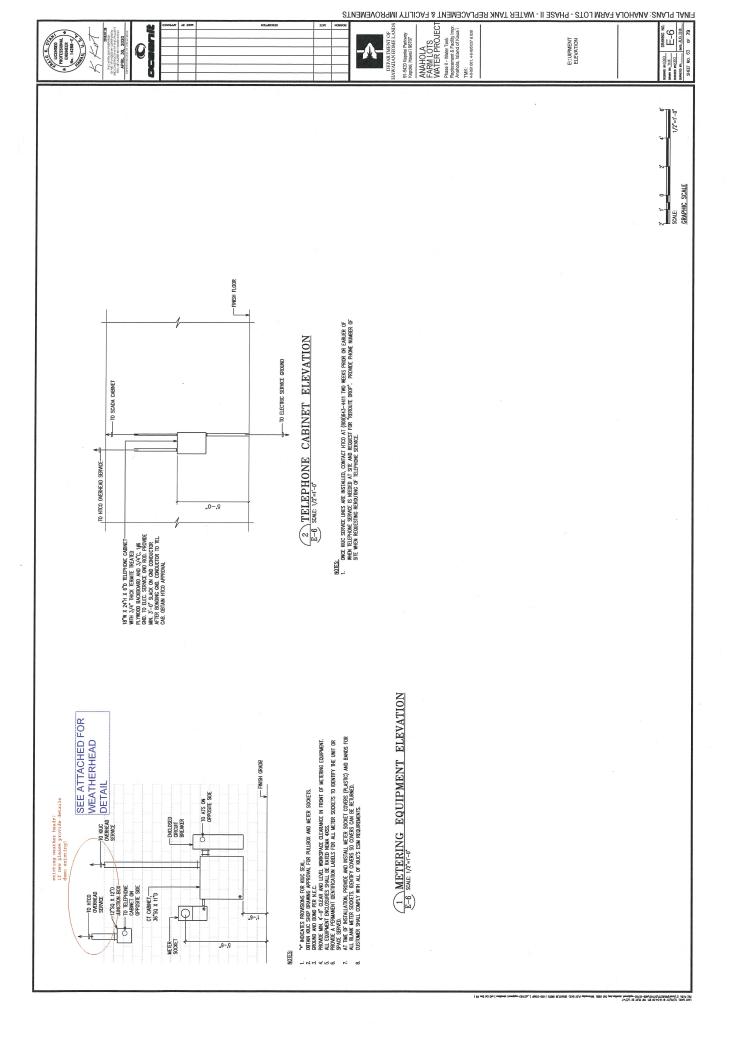
Subject:

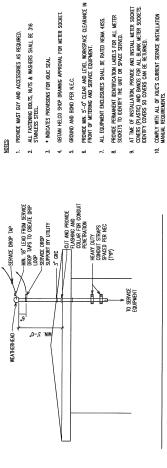
RFI #1

See comments on RFI in blue.

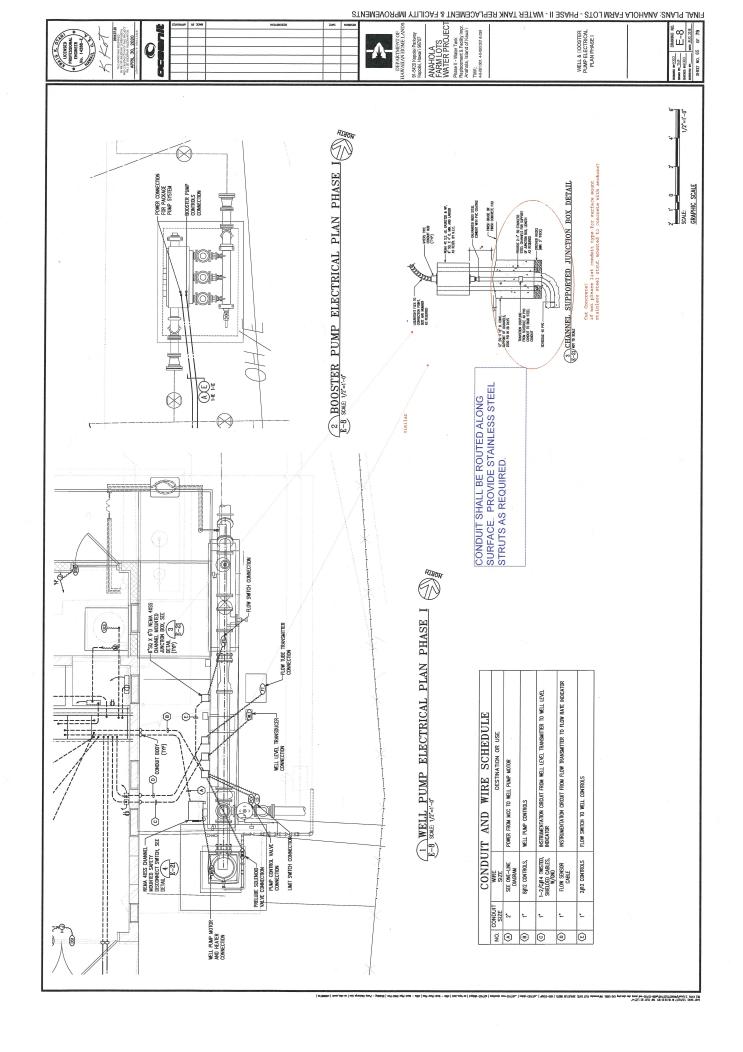
Trey Fernandez
Ronal Ho and Associates

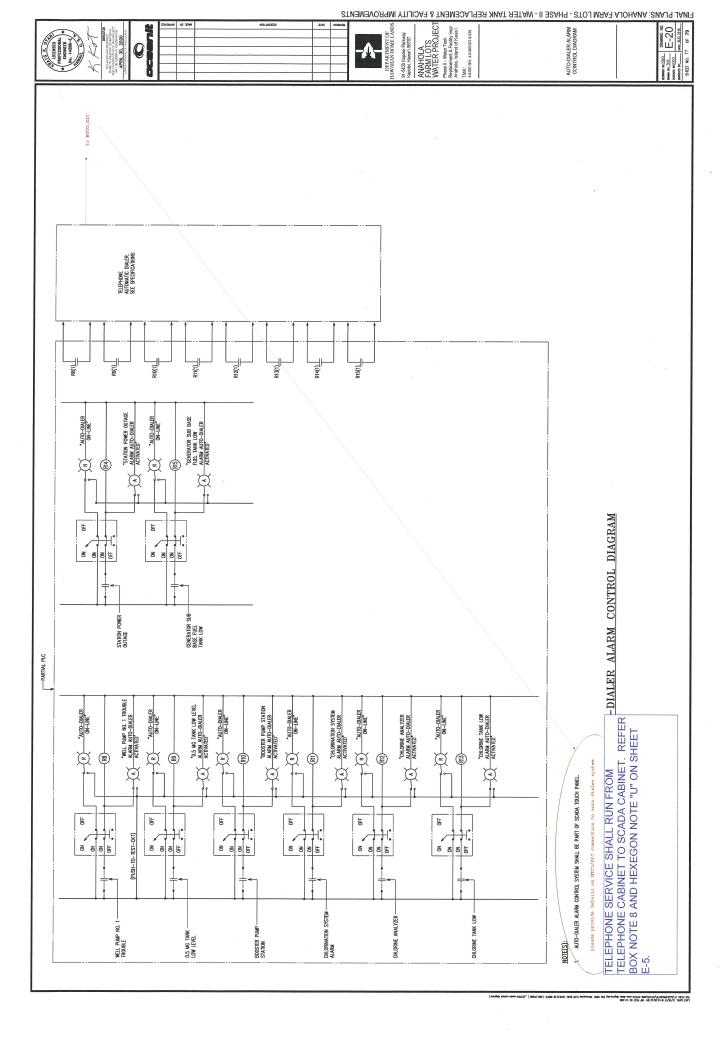


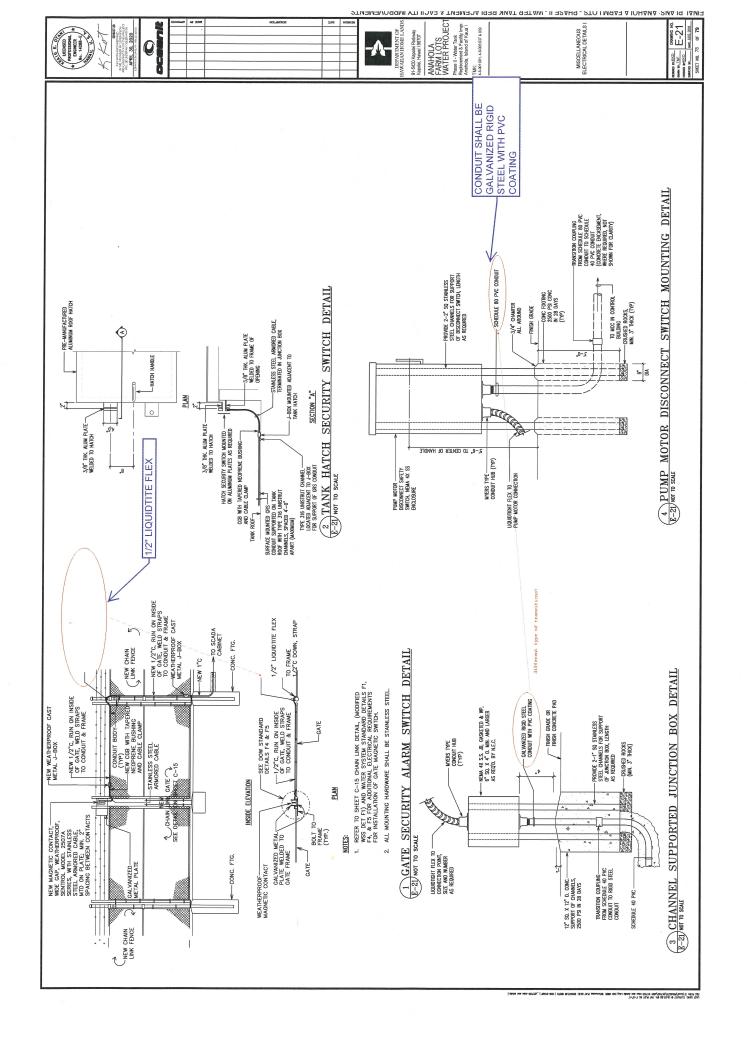




ELECTRICAL EQUIPMENT ELEVATIONS - WEATHERHEAD









• Project Management • Planning • Architectural/Engineering Design • Construction Management

Hawaii Business' 2018 Rest Places to Work

94-408 Akoki Street, Suite 201-A Waipahu, Hawaii 96797 Phone: 808_836_7787 Telefax: 808_834_4833

Hawa		DEST FUILES TO WORK				LETTE	R OF TRA	NSMITTAL
TO:	HDCC			DATE:	N.		2018 PROJ NO.:	
-	605 Kapiolani Blv	d		ATTENTI		Richard		IFB-19-HHL-001
STATE OF THE PERSON NAMED IN	Honolulu, HI 9681						Vater Project Ph. II	
							ment and Facility Ir	
	cc: Wasa (via em	nail)				ransmittal N		
WE	ARE SENDING YO	OU X Attached		V	ia:		EMAIL	the following items:
	Shop drawings	Prints	Plans			Samples	Specific	ations
	Copy of letter	Change order	War-provide recommendate					
COPIE 1		F2 25 24	Y. P		***************************************	RIPTION		
1	11/23/18	Response - Request Fo	or Information (RI	1) - Reques	t to fe	or approval of	Supplier Glenmoui	nt Global Systems
Management of the second						***************************************		
e-stirations continues to the								
						######################################		
	For approval For your use and i	ED as checked below:	Approved as sub			Resubmi Submit	t copies fo	or approval
	As requested		Returned for cor			Return	corrected	
	For review and con	mment	***************************************		er-tear-rasker-rask	P-400-00-00-00-00-00-00-00-00-00-00-00-00		
	FOR BIDS DUE			20		PRINTS	RETURNED AFTER	LOAN TO US
REMAI	RKS: See attache	d response for - Reques	t For Informatio	n - Request	for a	pproval of S	upplier Glenmoun	t Global Systems
COPY T	O: Wayne Nakam	ura, DHHL						
	Files		**************************************	SIGNI	ED		55	



Steve lentile

Bowers+Kubota

Nakamura, Wayne H

From: Steve lentile <sientile@bowersandkubota.com>

Sent: Friday, November 23, 2018 12:36 PM

To: Richard Halle

Cc: Nakamura, Wayne H; Charissa Riofta; 'jmiyamoto@wasahawaii.com'

Subject: RE: Anahola FLWP, Phase II: RFI - Request for approval of supplier GGS - RESPONSE

Attachments: B+K 06 Response RFI - Glenmount Supplier.pdf

Richard; Please see attached B+K Transmittal No. 06; RFI- Request for approval of Supplier Glenmount Global Systems.

Thanks

Steve lentile

Bowers + Kubota Consulting Bowers + Kubota Management

HawaiiBusiness' 2018 Best Places to Work

Mobile: (808) 286-3830

Main Office: (808) 836-7787 / (808) 833-1841

Fax: (808) 834-4833

Please consider the environment before printing this e-mail

From: Nakamura, Wayne H < wayne.h.nakamura@hawaii.gov>

Sent: Monday, November 19, 2018 7:21 PM **To:** Richard Halle <rhalle@hdcc.com>

Cc: Steve lentile <sientile@bowersandkubota.com>; Charissa Riofta <criofta@bowersandkubota.com>; Jeremy

Michelson < JMichelson@OCEANIT.COM>; Nakamura, Wayne H < wayne.h.nakamura@hawaii.gov>

Subject: FW: Anahola FLWP, Phase II: RFI - Request for approval of supplier GGS

Hi Richard,

Project: Anahola Farm Lots Water Project, Phase II- Water Tank Replacment & Facility Improvements

Public Water Systerm No. 432, Anahola, Kauai, Hawaii

RE: Request For Information (RFI) - Request to for approval of Supplier Glenmount Global Systems

DHHL has received your **Request For Information (RFI)**. Our Consultants will be reviewing your RFI and a written response will be provided.

Mahalo,

Wayne Nakamura
Project Manager
Land Development Division
Department of Hawaiian Home Lands

Phone: 808-620-9275

Email: wayne.h.nakamura@hawaii.gov

From: Richard Halle < rhalle@hdcc.com > Sent: Monday, November 19, 2018 11:25 AM

To: Nakamura, Wayne H < wayne.h.nakamura@hawaii.gov>

Subject: FW: Anahola Farm Lots Water Project - GGS Brief Company Resume

See below

From: Joshua Miyamoto [mailto:jmiyamoto@wasahawaii.com]

Sent: Monday, November 19, 2018 11:22 AM

To: Richard Halle < rhalle@hdcc.com>

Subject: FW: Anahola Farm Lots Water Project - GGS Brief Company Resume

Richard,

The spec lists out "Hawaii" only company for the SCADA.

Glenmount Global manages both Kauai DOW and Kauai Wastewater SCADA. Can you RFI to have them added as acceptable?

Were you able to submit the previous RFIs?

Thank you, Joshua Miyamoto

From: Svitlana Palona < svitlana.palona@glenmountglobal.com>

Sent: Friday, November 16, 2018 2:03 PM

To: Joshua Miyamoto < imiyamoto@wasahawaii.com >

Cc: Tom Johnson < tom.johnson@glenmountglobal.com >; Bret Wiscomb < bret.wiscomb@glenmountglobal.com >; Ryan

Budd <ryan.budd@glenmountglobal.com>

Subject: Anahola Farm Lots Water Project - GGS Brief Company Resume

Joshua,

Thank you for contacting Glenmount Global Solutions regarding Anahola Farm Lots Water project Phase II Water Tank Replacement & Facility Improvements. Per your request from this morning, please see attached company overview that contains key facts about GGS and references to recent water projects, including two major completed projects on the Island of Kauai.

Please let us know if you have any questions.

Best regards,

Svitlana Palona, MBA

Business Development Manager – West

Glenmount Global Solutions

svitlana.palona@glenmountglobal.com

Cell: 518.860.5990 Office: 707.927.0236 630 Airpark Road, Suite G

Napa, CA 94558 Safety First!

www.glenmountglobal.com

Confidentiality Notice: This e-mail message is the property of the Sender. The contents of this message may contain confidential or legally privileged information that is intended only for the individual or entity named in the e-mail address. If you are not the intended recipient, you are hereby notified that disclosure, copying, distribution or reliance

upon the contents of this e-mail is strictly prohibited. If you have received this e-mail transmission in error, please reply to the Sender, so that the Sender can arrange for proper delivery, and then please delete the message and its attachments from your computer, and destroy any hard copies. Thank you.

November 21, 2018

Project:

DHHL Anahola Farm Lots Water Project

Subject:

RFI #2

See comments on RFI in blue.

Trey Fernandez
Ronal Ho and Associates

SECTION 16100

SUPERVISORY CONTROL AND DATA ACQUISITION (SCADA) SYSTEM

PART 1 - GENERAL

- 1.01 <u>GENERAL CONDITIONS</u>: This section covers the Supervisory Control and Data Acquisition (SCADA) system including equipment, wiring, adjustment and testing as indicated on the plans and specified herein.
 - A. As specified in Section 16000, Electrical Work. The provisions of these related sections apply to this section and work described in this section shall comply with them.
- 1.02 <u>SCOPE OF WORK</u>: Provide all articles, materials, equipment, operations, and services herein or on Drawings, including all labor, materials, taxes, fees, insurance, and incidentals required to insure completion.
 - A. Test Complete Installation: Installation shall be complete in every detail as specified and ready for use. Any item supplied by Contractor developing defects within one year of final acceptance by Owner shall be replaced by such materials, apparatus, or parts to make such defective portion of complete system conform to true intent and meaning of these Drawings and Specifications, at no cost to Owner.
 - B. System Overview These specifications are for a distributed SCADA system for a water system, including Programmable Logic Controller (PLC) and Operator Panel. This system shall require but not limited to the following work:
 - 1. Providing one (1) PLC at the Anahola Farm Lots site, including but not limited to the following major equipment:
 - a. PLC
 - b. UPS
 - c. 5-Port Ethernet Hub
 - d. 10" HMI Operator Panel
 - e. One (1) Power Supply
 - 2. The SCADA communications systems shall be as indicated on the drawings and as follows:
 - a. The system shall be used for transmitting alarms, status and telemetry, calculated data, diagnostic and error logging information from the PLC to the Master SCADA station. The PLC shall also be able to upload any portion of their database to a future

- Master SCADA station upon request or event.
- b. The future Master SCADA station shall be able to send to the PLC, commands and interrogation requests, and to download to the PLC the full Database, Application, Software and Parameters, via the communications channel.
- c. The PLC shall be able to communicate and exchange data with hierarchies in the system and to inform the future Master SCADA station about their activity.
- d. Contractor shall coordinate the planning and construction of the SCADA system (programming, I/O list, etc.) with the Owner.
- C. This system shall be an integrated system of hardware and firmware totally engineered, programmed, assembled and tested. System shall be complete with all appurtenances, whether specifically referenced herein or not, but which may be required for operation.
- D. During bidding and construction, Contractor shall coordinate his work with other trades to avoid omissions and overlapping responsibilities. Electrical contractor shall notify other trades and suppliers of project voltages, including control voltages.
- E. Work by Others: Instrument transmitters shall be provided by respective sections of this contract. Installation of equipment complete with power wiring and electric controls and interlock wiring shall be part of Electrical Work.
- 1.03 <u>SUBMITTALS</u>: Submittals shall be made for approval and resubmitted until approval is received for the following:

Provide required copies, according to the Special Provisions Section 1.13 of the specifications, of submittal information to the Engineer for distribution after review.

Furnish submittal information on the following items:

- A. Catalog Cuts: Submit for approval catalog cuts of following equipment
 - 1. SCADA system components and equipment.
 - 2. Conductors and Wiring.
 - 3. Wiring and functional or block diagrams.
 - 4. Manufacturer's recommendations for installation.
 - 5. Logic diagrams and ladder diagrams.

- 6. Manufacturer's recommended list of spare parts for a one-year period of operation.
- B. Electrical Installation Drawings: At least 10 days prior to any testing the Contractor shall submit four (4) sets of approved complete electrical installation drawings. The installation drawings shall include the manufacturer's wiring diagrams for the SCADA system and any built-to-order equipment.
- C. As-Built Drawings: Upon completion of the final inspection and testing, the Contractor shall provide six (6) copies of as-built installation drawings and manufacturer's wiring diagrams for the SCADA system and any built-to-order equipment.
- 1.04 <u>LOCAL SUPPORT</u>: The manufacturer of the SCADA system supplied shall be represented by a company with offices in the State of Hawaii. This local office shall be capable of responding to requests for maintenance and repair to the system by having a technician skilled in the repair, maintenance and operation of the system at the job site within 24 hours of being notified. This local representative shall carry all spare parts which are recommended by the manufacturer.
- PAI As long as Glenmount Global Solutions is able to meet the requirement of being at the job site within the 24 hour period for 2.01 maintenance, then Glenmount will be acceptable.

materials, free vided. Provide

materials approved by UL wherever standards have been established by that agency. Where two or more units of the same class of material or equipment are required, provide products of a single manufacturer. Component parts of materials or equipment need not be products of the same manufacturer.

- 2.02 <u>STANDARD PRODUCTS</u>: Unless otherwise indicated, provide materials and equipment which are the standard products of manufacturers regularly engaged in the production of such materials and equipment. Provide the manufacturer's latest standard design which conforms to the specifications.
- 2.03 <u>SCADA SYSTEM CONTROL AND DESCRIPTION</u>: The new system consists of one new SCADA PLC and touchscreen system at the new Anahola Farm Lots site.
- 2.04 <u>MATERIALS AND EQUIPMENT</u>:
 - A. SCADA Cabinet: The Contractor's SCADA work shall include terminating all telemetry inputs and outputs to terminal blocks within the SCADA cabinet. Termination shall be maintained tight to top, front of the enclosure's left side. Terminal blocks shall be neatly aligned in a single column. The SCADA enclosure shall also include grounding strip, 120V AC power for connection to 24V DC power supply and UPS.

B. Programmable Logic Controller:

- 1. Programmable Logic Controller (PLC) shall be microprocessor based, solid-state construction utilizing second source semiconductors, unless otherwise specified. The PLC shall have a serial port and Ethernet ports and be able to communicate using Ethernet/IP protocols. Each PLC shall be supplied with the number and types of I/O points as indicated elsewhere in the plans and specifications. Future expansion shall be possible by simply plugging in additional I/O modules to the rack-less I/O bus. Additional I/O modules shall connect next to each other without requiring a fixed size rack. PLC, I/O, touchscreen, and Ethernet switch components shall use 24VDC and shall be powered through a UPS backup with a minimum 60 minutes of backup time. Digital Outputs shall utilize transistor outputs and use auxiliary relays for controls, and Analog signals shall utilize 4-20maDC based signals. All downloading to the PLC controller and touchscreen shall be over Ethernet. All programming shall utilize ladder logic. Parts shall be off the shelf design and common throughout so as to minimize spare parts requirements. PLC shall be housed in the SCADA cabinet. Unit shall be Siemens Simatic S7-1200 or approved equal.
- C. Operator Interface Touchscreen shall be installed in the front of the SCADA cabinet, or other suitable location as required. Touchscreen shall have a basic color screen. Touchscreens shall monitor and control local functions of the PLC. They shall communicate to the PLC using Ethernet communication, through a DIN rail mounted switch in the PLC panel. They shall be rated for NEMA 4X and shall display a minimum of 640x480 resolution. Touchscreens shall be "deployed" remotely over the Ethernet connection for centralized development and quality control. Unit shall be Siemens KTP 10" compact panel or approved equal.
- D. Instrumentation System Transmitter Power Supply: The power supply shall be mounted in the SCADA cabinet and deliver regulated 24-36 volts DC power at a maximum current recommended by the analog transmitter supplier. The unit shall operate on 117 volts AC at 50-70 Hz. Load regulation shall be 150 mV maximum from no-load to full-load current. Line regulation shall be 150 mV from 105 to 135 volts AC.
- E. See Drawings for additional information on the recommended materials and equipment for the SCADA system.
- F. Spare Parts:
 - 1. One (1) HMI Operator Panel

- 2. One (1) PLC
- 3. One (1) 8 Digital Input Module
- 4. One (1) Power Supply

PART 3 - EXECUTION

3.01 CONSTRUCTION METHODS:

- A. Flush mount indicators, selector switches, pushbutton switches, and pilot lights in a logical arrangement.
 - 1. Mount devices listed, shown, or required for a complete and operable system in accordance with device manufacturer's instructions, these specifications, and as recommended in NEMA PB1.1.
 - 2. Ground control panel to safety ground of power source.
 - 3. Analog signals must use shielded pairs cabling.

3.02 PROGRAMMING:

- A. Contractor shall coordinate all PLC programming with the Owner.
- B. The PLC supplier and Contractor shall provide the complete programming and documentation for PLC to comply with the requirements set forth herein.
- C. Contractor shall provide Owner with a copy of the implemented software.
- 3.03 <u>COMMISSIONING</u>: Instruments are to be commissioned under the direct supervision of a qualified representative of the instrument manufacturer. The Owner and or the Owner's representative shall have the right to witness any test, inspection, or calibration or start-up activity.
 - A. Test and exercise each device to demonstrate correct operation, first individually, then collectively as a functional network. Apply continuously variable analog inputs to verify proper operation and setting of analog devices and discrete devices (i.e. switches, etc.). Make provisional settings on relays and pressure switches.
 - B. Unless otherwise specified, tests shall be made to cover at least five points: approximately 0 percent, 25 percent, 50 percent, 75 percent, and 100 percent of range. Individual device accuracy requirements shall be as specified by contract requirements or by published manufacturer accuracy specifications whenever contract requirements are not specified.

- C. If test results conflict with calibration, the Contractor shall recalibrate and repeat test until test results prove calibration to be correct.
- D. The supplier of all equipment shall be an organization which is committed to the provision of ongoing support and development and can show a history which supports this position. In particular, the supplier must so state in writing that they have performed 5 similar projects with this proposed configuration. It must support and use industry standards and be committed to the use of open standards. The supplier must perform <u>all</u> work within the State of Hawaii.
- 3.04 <u>TEST REPORT</u>: Prepare a test report showing actual value, instrument value, 4-20 mA value (at the PLC) for each test, and range of the instrument. Each test shall bear the signature of the contractor's representative who supervised the tests and the manufacturer's representative. Three copies of these reports in bound sets label "CALIBRATION DATA" are to be furnished to the Owner's Representative.
- 3.05 <u>ADDITIONAL START-UP SERVICES</u>: The Contractor shall include an additional two days of programming time and the cost for the PLC's programmer to visit the site for one of the days in the bid. This time may be used at the discretion of the Owner for additional programming, changes, and/or training. This time is over and above the work necessary to provide a complete and operable system.
- 3.06 <u>GUARANTEE</u>: The SCADA system, equipment, materials, and associated items shall be guaranteed against defective parts and operation due to faulty material or workmanship during the period of one year following acceptance and final payment by the Engineer. The Contractor shall make all repairs or replacements necessary to accomplish the required performance within the time specified by the Engineer and agreed to by the Contractor.
- 3.07 <u>MEASUREMENT AND PAYMENT</u>: The electrical work shall be measured and paid for at the contract lump sum price bid.

Payment for construction of Supervisory Controls and Data Acquisition (SCADA) will be made by Lump Sum. Payment shall represent full compensation for furnishing all materials, labor, tools, equipment and incidentals required to complete the work in accordance with the drawings and specifications.

END OF SECTION



• Project Management • Planning • Architectural/Engineering Design • Construction Management HawailBusiness' 2018 Best Places to Work 94-408 Akoki Street, Suite 201-A Walpahu, Hawaii 96797 Phone: 808_836_7787 Telefax: 808_834_4833

LETTER OF TRANSMITTAL

TO: G	oodfellow Bros.	Inc		DATE:	N	November 23, 2018	PROLNO:	IFB-19-HHL-001
91	-476 Komohana	Street	A	ATTENTI		Billy McCos		22 27 27 23 23 20 20 2
K	apolei, HI 96707			RE: A	naho	la Farm Lots Wate		II
**************************************						Tank Replacemen		
<u>bi</u>	llym@goodfello	wbros.com				Transmittal No. (
WE AI	RE SENDING YO	DU X Attached		Vi	ia:	ЕМ	AIL	the following items:
SI	hop drawings	Prints	Plans			Samples	Speci	Tications
C	opy of letter	Change order	400000000000000				dinastantinas de dinastantinas de la compania de l	
COPIES	DATE			DE	SCR	UPTION		
1	11/23/18	Response to GBI's RF	I; 1. Specification				(RFI #3)	
					000000000000000000000000000000000000000			
				-				
					TOTAL PROPERTY AND ADDRESS OF THE PARTY AND AD			
					QFCECTEMBERQUO	***************************************		
				***************************************	enter trend			
					THE RESIDENCE AND ADDRESS OF THE PERSON NAMED IN COLUMN 1			
THESE AR	E TRANSMITTE	D as checked below:						
Fo	r approval		Approved as sub	mitted		Resubmit	copies	for approval
X Fo	r your use and i	nfo	Approved as note	ed		Submit	copies	for distribution
As	requested		Returned for corr	rections		Return	соттес	ted prints
Fo	r review and cor	nment	Name of the Association of the A	THE THE PERSON NAMED IN COLUMN 2 IN COLUMN	0778074GNLD50105603			
FO	R BIDS DUE			20	-	PRINTS RET	URNED AFT	ER LOAN TO US
REMARK	S: See attache	d responses for the requ	est for information	regarding -	Spec	cifications & Chlo	orine Residu	al Analyzer
	-							
				-			NAS-2	
				**************************************	***************************************		MCACOMETERS CONTRACTOR AND	
				and the second s	A Company on		luman verrandonos estelas estreneres.	
COPY TO:	Wayne Nakamu	ıra, DHHL						
	Files					6	5	
				SIGNE	D	1		
						Steve I	entile	Bowers+Kubota



Nakamura, Wayne H

From:

Steve lentile <sientile@bowersandkubota.com>

Sent:

Friday, November 23, 2018 11:40 AM

To:

'billym@goodfellowbros.com'

Cc:

Nakamura, Wayne H; Charissa Riofta

Subject:

RFI for Anahola Farm Lots Water Project Ph. II - Water Tank Replacement and Facility

Improvements

Attachments:

RFI # 3 _ GBI - chlorine and specifications.pdf

Billy; Please see the attached BK Transmittal No. 04 – Response for GBI's RFI regarding (1) Specifications Set & (2) Chlorine Residual Analyzer.

Thanks

Steve lentile

Bowers + Kubota Consulting Bowers + Kubota Management

HawaiiBusiness' 2018 Best Places to Work

Mobile: (808) 286-3830

Main Office: (808) 836-7787 / (808) 833-1841

Fax: (808) 834-4833

Please consider the environment before printing this e-mail

Phone: 808-620-9275

Email: wayne.h.nakamura@hawaii.gov

From: Billy McCoskey billym@goodfellowbros.com

Sent: Tuesday, November 20, 2018 1:20 PM

To: Nakamura, Wayne H < wayne.h.nakamura@hawaii.gov>

Subject: RFI for Anahola Farm Lots Project, Phase II - Water Tank Replacement and Facility Improvements

Wayne,

I have the following questions regarding the subject project:

- 1. Will there be a specification set issued for the project? There does not appear to be one with the available bid documents.
- 2. Drawing M=6 shows a chlorine residual analyzer located in the control bldg., this unit the water from the 8" main line by the control bldg.. Drawing C-3 shows a chlorine analyzer sampling the same 8" effluent line from the tank. The injection point for chlorine is located off well head piping shown on drawing M-1, the analyzers are reading the same line. Are both analyzers necessary and if so which analyzer triggers the dosing pump?

Billy McCoskey Estimator/Project Manager

GOODFELLOW BROS. INC.

91-476 Komohana Street Kapolei, HI 96707 O 808.676.1523 | M 808.348.3498 | F 808.676.2902 www.goodfellowbros.com

Our Mission: To be the contractor of choice by our Clients, Employees and the Communities in which we live and work

Goodfellow Bros., Inc. is an Equal Opportunity Employer

Disclaimer

The information contained in this communication from the sender is confidential. It is intended solely for use by the recipient and others authorized to receive it. If you are not the recipient, you are hereby notified that any disclosure, copying, distribution or taking action in relation of the contents of this information is strictly prohibited and may be unlawful.

This email has been scanned for viruses and malware, and may have been automatically archived by **Mimecast Ltd**, an innovator in Software as a Service (SaaS) for business. Providing a **safer** and **more useful** place for your human generated data. Specializing in; Security, archiving and compliance. To find out more <u>Click Here</u>.



Date:

November 20, 2018

To:

Bowers + Kubota

Kukui Grove Mall Office 3-2600 Kaumualii Hwy.

Lihue, HI 96766

Attention: Steve lentile

(808) 286-3830

Project:

Anahola Farm Lots Water Project, Phase II – Water Tank Replacement

IFB-19-HHL-001

Subject:

RFI 03 - Specifications, Chlorine Residual Analyzer

1. Will there be a specification set issued for the project? There does not appear to be one with the available bid documents.

Addendum No 1 added the missing Technical Specifications and was posted on the SPO-HANDS website on October 30, 2018.

2. Drawing M-6 shows a chlorine residual analyzer located in the control bldg., this unit the water from the 8" main line by the control bldg. Drawing C-3 shows a chlorine analyzer sampling the same 8" effluent line from the tank. The injection point for chlorine is located off well head piping shown on drawing M-1, the analyzers are reading the same line. Are both analyzers necessary and if so which analyzer triggers the dosing pump?

The two analyzers are required. The one in the control building measures the chlorine residual downstream of the injection point as required by DOH. This is off the reservoir influent line. This analyzer controls the metering pump. The analyzer on Drawing C-3 is off the reservoir effluent line and measures chlorine residual before it goes into distribution. There is a valve which will remain in the closed position between the influent and effluent lines. See attached sheet C-3 with the valve identified.

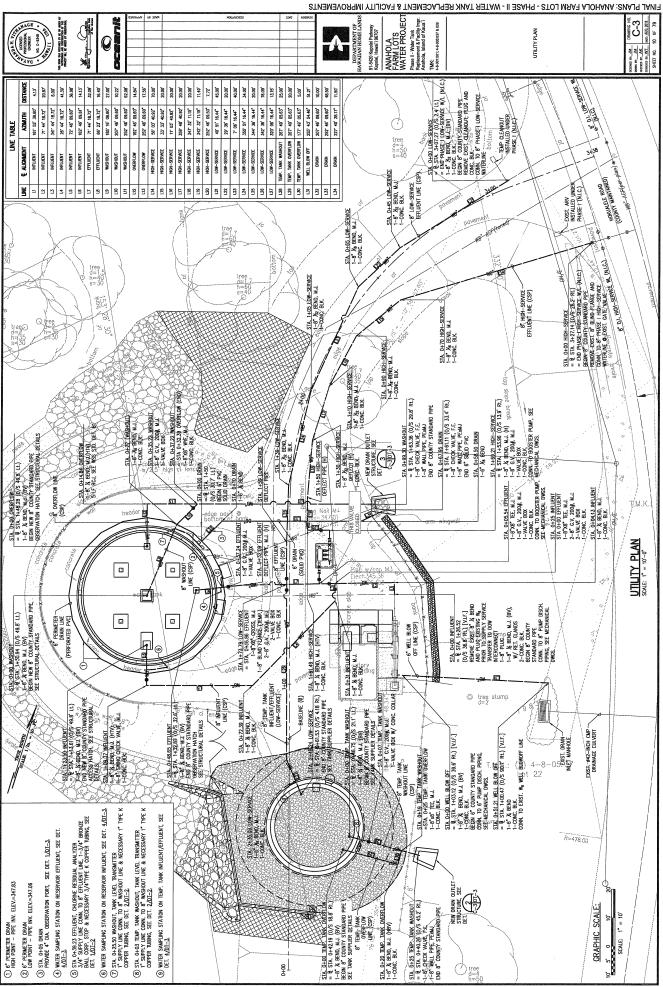
If you have any questions, please call us at 531-3017.

Sincerely.

Oceanit

Jeremy Michelson, PE, PMP, CPESC

Project Manager





 $\bullet \ \, \text{Project Management} \, \bullet \, \text{Planning} \, \bullet \, \text{Architectural/Engineering Design} \, \bullet \, \text{Construction Management}$

HawaiiBusiness's 2018 Best Places to Work

94-408 Akoki Street, Suite 201-A Waipahu, Hawaii 96797 Phone: 808_836_7787 Telefax: 808_834_4833

LETTER OF TRANSMITTAL

TO:	Klopfenstein's Li	ghting In	c			DATE:	No	vember 20,	2018 PR	OJ NO.:	IFB-19-HHL-001	_
	1128 Nuuanu Av					ATTENT	ION:	Rick Fe	11			_
	Honolulu, HI 968	17-5195						ı Farm Lots				
										Facility 1	mprovements	
						В	K Tra	nsmittal No	0. 03			
W	E ARE SENDING Y	OU 🔽	Attached			V	ia: _		email		the following items	:
	Shop drawings		Prints		Plans			Samples		Specific	eations	
	Copy of letter		Change ord	er		Ö.	7	· · · · · · · · · · · · · · · · · · ·				_
COP	ES DATE	NO.		1 1 -			DESCI	RIPTION				-
1	11/20/18	1	Response to	substitu	ution request l	No. 2 - Lig	hting F	Fixtures (Klo	pfenstein	's Lightin	g Inc.)	_
		1										_
				***************************************								_
				*****					-			_
		-							STRAINS CO. A MANNEY CO. A CO.			_
												-
THESE	ARE TRANSMIT	ED as ch	ecked below:									-
	For approval			App	proved as subr	mitted		Resubm	it	copies f	or approval	
J	For your use and	info		□ Арр	proved as note	ed		☐ Submit		copies f	or distribution	
	As requested			Retu	urned for corr	rections		Return		_ correcte	d prints	
	For review and c	omment		√ <u>S</u>	See remarks b	elow)			_
	FOR BIDS DUE					_ 20	_	☐ PRINTS	RETURN	ED AFTE	R LOAN TO US	
REMA	RKS: See the at	ached re	sponse for the	substit	ution request	for lighting	g fixtur	es.				
												_
W. Arrange of Transport Assessment Assessment												_
										·		_
										-		_
COPY	TO: Wayne Nakan	nura, DH	HL									
	File							£	Class.	D:	1+	
						SIGN	ED _	for Steve Ier	tile P	Maskut	Subota Consulting	_
								316 A 161	աւշ Ճ	OMCIS T I	Lubbia Consulting	



Nakamura, Wayne H

From:

Charissa Riofta <criofta@bowersandkubota.com>

Sent:

Tuesday, November 20, 2018 2:07 PM

To:

RF@KLI-HI.COM

Cc:

Nakamura, Wayne H; Steve lentile

Subject:

Anahola Farm Lots Water Project Ph II - BK Transmittal No. 03 - Response to

Substitution Request - Lighting Fixtures

Attachments:

Substitution Request - Lighting Fixtures.pdf; BK Transmittal No. 03 - Lighting

Fixtures.pdf

Good afternoon Rick,

Please see the attached BK Transmittal No. 03 – Response to Substitution Request for Lighting Fixtures.

Thank you, Charissa

Charissa Riofta

Bowers + Kubota Consulting Bowers + Kubota Management

HawaiiBusiness' 2018 Best Places to Work

Mobile: (808) 639-3752

Main Office: (808) 836-7787 / (808) 833-1841

Fax: (808) 834-4833

Please consider the environment before printing this e-mail

November 15, 2018 217163 **Anahola Farm Lots Water Project** Phase II - Water Tank Replacement & Facility Improvements Klopfenstein's Lighting Inc. Electrical Supplier: Submittal Date: 11/13/18 The Light Fixture Substitution Request was reviewed as indicated below: Approved: Columbia Light • Rejected: Hubble Light - The Hubble light fixture needs to be 3000K as specified in Light Fixture Schedule. **EQUIPMENT PREQUALIFICATION** X Approved X Rejected __ Approved as modified Submit sample "Approval is subject to all requirements of the contract documents being met and shall not in any circumstances be construed as an approval for deviations from the contract documents unless the entity seeking such approval has, in writing, specifically called attention to each such deviation at the time of submission. Said entity and/or Contractor shall be responsible for coordination. of the work pertinent to affected materials, equipment and labor to insure proper execution of the work as per the intent of the contract documents." By: Trey Fernandez Date: November 15, 2018
RONALD N. S. Ho & ASSOC. INC.



Klopfenstein's Lighting Inc.

1128 Nuuanu Ave. Suite101 Honolulu, HI 96817-5195 Phone: (808) 533-0558

Sales Fx: (808) 526-4085 Quotes Fx: (808) 521-2891

www.kli-hi.com



To: DHHL

91-5420 Kapolei Pkwy Kapolei, HI 96707

Subject:

Request For Substitution (Lighting Fixtures)

Anahola Farm Lots Water Project II Tank Replacement & Improvements

IFB-19-HHL-001

In accordance with the requirement of the Special Provisions, we hereby submit for substitution three (03) sets of technical brochures and statement of variances for your review and approval for the item(s) shown below.

Section/Type	Specified Brand	Substitution or Alternate Brand	<u>Variant</u> <u>Features</u>
А	Columbia	Day-Brite DWAE43L840-4-UNV	38 Watts
В	Hubbel	Maxlite WP-ADS20U-40B	20 Watts, but exceeds lumens

I further certify that my request for substitution of the above item(s) has no other variant features.

Mahalo for your consideration.

Rick Fell, Principal Klopfenstein's Lighting Inc (KLI)

PHILIPS Day-Brite

Industrial

Vaporlume LED DW

4' sealed industrial, 3500, 4300, 5100 or 7000 lm





Project	ANAHOLA			
Location:	***************************************	*********		
Cat No.	nversorettimerissy, sensina een in en interiotimeeris	************	*********	***************************************
Туре	Α	**********		***************************************
Lamps.)ty	06	
Notes:	***************************************	*******		****************

Example: DWAE51L840-4-UNV-MD360W

The Philips Day-Brite / Philips CFI Vaporlume LED sealed industrial DW is a specialized wet location, IP rated product designed for use in both indoor and outdoor environments. It is a wet location listed, non-corrosive luminaire available in both fluorescent and LED light sources.

Ordering guide

Hubs Family Application Lumen Package Color Temp. Length Voltage Driver Options Installed D W Α E 43L 835 4 UNV D Sealed W Wet A DR Acrylic E Ends only 35L 3500 830 80 CRI, UNV Universal blank 0-10V MD360W Wet location industrial P Polycarbonate 3000K nominal Voltage, SDIM² Step occupancy Enhanced LED lumens 835 80 CRI, 120-277V dimming sensor, external 43L 4300 3471 347V Acrylic 3500K to 40% WHP Wide beam optic 840 4801 480V nominal 80 CRI. input EMLED³ Integral lumens 4000K power emergency **51L** 5100 850 80 CRI, **IP67** Protection nominal 5000K against effects of lumens immersion (25°C GLR Fusing, fast blow ambient) **51LH** 5100 nominal lumens (-35°C to 40°C) 70L 7000 nominal lumens

Footnotes

- 1 All 347V and 480V models available only for (-20°C to 25°C) ambient. Not available for use with 51LH or SDIM options.
- 2 Step dim (SDIM) option not available on 51LH.
- 3 EMLED option not available on 347V or 480V models.

Accessories (order separately)

- TBK Stainless Steel Top Bracket Kit (pair of brackets plus hardware)
- EBK Stainless Steel End Bracket Kit (pair of brackets plus hardware)
- WBK Stainless Steel Wraparound Bracket Kit (pair of brackets)
- FKR-126 Chain Hanger Set (requires TBK)







DW Vaporlume LED sealed industrial

4', 3500, 4300, 5100, or 7000 lumens

Application

- Ideally suited for use in refrigerated cold storage, industrial, parking garage, and canopy applications.
- Acceptable for outdoor as well as indoor installations.
- Can be surface (wall/ceiling) or suspended mounted unless otherwise specified.
- Wet Location Areas of high humidity, water vapor, rain, incidental water spray, or other non-corrosive or nonflammable liquid.
- Excellent for applications such as garages, stairwells, storage areas, horizontal shelf-mount refrigerated cases, and cold storage.
- Mounting brackets available, order separately.
- IP65 rating standard. IP67 configuration available.
- LED sources provide excellent low temperature performance. This product can replace a fluorescent model in cold environments with significant energy savings
- 51LH model listed for use in -35°C to 40°C ambient. 50,000 hour L70 lumen maintenance.
- 35L/43L models listed for use in -20°C to 40°C ambient. 100,000 hour L70 lumen maintenance.
- 51L/70L models listed for use in -20°C to 25°C ambient. L70 lumen maintenance is 100,000 hours for 51L model, and 50,000 hours for 70L.
- NSF Certified for Non-Food Zone Installations.
- · EMLED 1100lm nominal in DC mode
- WHP wide optic is an acrylic lens factory installed on the LED arrays, provides compliance to DLC requirements for parking garage luminaires
- Vaporlume LED luminaires are Designlights Consortium qualified. Please see the DLC QPL list for exact catalog numbers (http://www.designlights.org/QPL..

Construction/Finish

- · Non-conductive, non-corrosive housing.
- · Smooth exterior surface for easy cleaning.
- White one piece, molded fiberglass reinforced polyester body. No rusting, no oxidation, and no corrosion.
- Standard acrylic lens (A) is stippled sheet of .130" nominal thickness.
- Optional LED lens (L) designed specifically to further reduce pixilated glare from LED's. Linear rib profile.
- Optional polycarbonate lens (P) will not be yellowed by LED sources because they do not produce UV
- Continuous compressible closed cell gasket provides tight seal between plastic enclosure and luminaire body
- · White ABS cam action latches standard.
- · Pre-painted steel lighting channel.
- Two gasketed threaded (½" trade size) wet location hubs installed on ends.

Electrical

- High efficiency LEDs provide up to 100,000 hour rated life (L70, defined as 70% lumen maintenance @ rated maximum ambient).
- Dimming to 5% on 0–10V controls standard.
 Step dim (SDIM) option available, 100/40%
- Driver and LED boards are accessible from below. LED boards are individually replaceable if required.
- Combinations are available providing as much as 117 delivered lumens per Watt.
- Nominal lumen packages range from 3,500 to 7,000 lumens, providing flexibility to optimize light levels for a specific application.
- LED sources provide full illumination in low temperature applications, unlike fluorescent sources that provide reduced light levels'in very cold environments.
- · LED sources can be frequently switched with no negative impact on life.
- Minimum 80 CRI provides smooth color rendering that rivals or exceeds performance of fluorescent lamps.

- Light output from the luminaire contains no infrared or ultraviolet energy, so the light won't heat or fade the objects being lit.
- Available motion sensor further increases energy savings in areas where occupancy is not continuous.

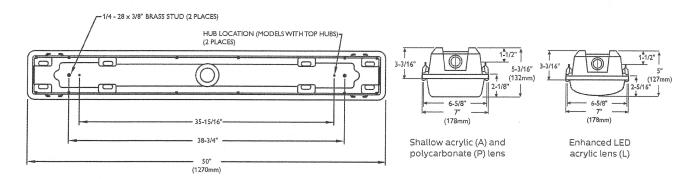
Labels

- cETLus listed to UL 1598. Suitable for use in wet locations.
- · Five year luminaire limited warranty including LED boards and driver.
- Certain luminaire components may be adversely affected by contaminants. If sulfur, chlorine, or petroleum based solutions, or other contaminants will be in the area of operation, please consult factory as damage caused by these contaminants are not covered under our limited warranty.

DW Vaporlume LED sealed industrial

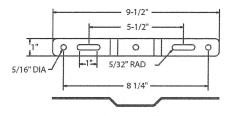
4', 3500, 4300, 5100, or 7000 lumens

Dimensions



Mounting Brackets

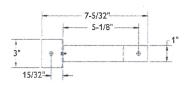
TBK - Top Mounting Bracket



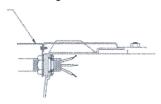
WBK - Wraparound Mounting Bracket



EBK - End Mounting Bracket



EBK - End Mounting Bracket



DW Vaporlume LED sealed industrial

4', 3500, 4300, 5100, or 7000 lumens

4' Vaporlume LE	ED DW, 3500 non	ninal lum	nens		LI	ER-117								
		Candle	power				Coeffici	ents of Utiliz	ation					
Catalog No.	DWAE35L840-4	Angle	End	45	Cross	Back-45		TIVE FLOOR		LECTAN		R (pfc=0		
Test No.	32643	0	1250	1250	1250	1250	pcc	70 50	30	70	70 50	30	50 50	0 30
S/MH	1.2	5 15	1244 1204	1239 1201	1243 1199	1239 1201	RCR	***************************************						
Source	LED						0	117 117 108 10		114 105		14 95	110 94	110 92
Input Watts	32	25 35	1112 966	1114 964	1106 949	1114 964	2	97 89	81	94	86	30	82	77
Delivered Lumens	3699	45	778	777	841	777	3	89 78 81 68		85 79		58 58	72 65	66 56
		55 65 75	576 371 193	685 509 250	708 472 271	685 509 250	5 6 7 8	75 61 68 55 64 50 58 46	53 46 40	71 67 61 57	59 54 48	52 46 40 36	57 52 46 42	50 45 40 35
Comparative yearly lighti lumens – \$2.03 based or owr KWH.		85 95 105	49 19 17	91 36 30	96 28 20	91 36 30	9 10	56 41 52 39 stribution	34 30	54 51	38	33 30 ge Lumin	40 36	33 29
Photometric values base in compliance with LM-7		115 125 135	10 4 2	28 19 10	20 19 17	28 19 10	Degree: 0-30 0-40 0-60		% Luminaii 26.1 42.3 74.8	e	Angl 45 55 65	_	45° 4222 4228 3770	Cros 436 410 322
		145 155 165 175	1 1 1 1	3 1 1 1	9 2 1 1	3 1 1 1	0-90 90-120 90-130 90-150 90-180 0-180	3602 81 95 105	97.1 2.2 2.6 2.8 2.9 100.0		75 85	3096 1821	2402 1312	233 116
•	D DW , 4300 nom	inal lum Candlep			LI	ER-116	Coefficie	nts of Utiliza	tion		,			N
Catalog No.	DWAE43L840-4	Angle	End	45	Cross	Back-45	EFFECTI pcc	VE FLOOR 0	AVITY REFL	ECTANO	E 20 PEI	(pfc=0.2	(O) 50	
Test No.	32642	0	1496	1496	1496	1496		70 50			/ U		20	

		Candlep	ower				Coefficient	5
Catalog No.	DWAE43L840-4	Angle	End	45	Cross	Back-45	EFFECTIVI	E
Test No.	32642	0	1496	1496	1496	1496	pcc	7
S/MH	1.2	5 15	1491 1443	1487 1439	1485 1441	1487 1439	RCR O	
Source	LED							10
Input Watts	38	25 35	1332 1158	1338 1151	1323 1132	1338 1151	2	9
Delivered Lumens	4431	45	933	926	1000	926	4	8
		55 65 75	688 444 231	819 611 300	854 566 324	819 611 300	5 6 7 8	7 6 6 5
Comparative yearly lighti lumens — \$2.07 based or pwr KWH.		85 95 105	58 23 20	110 43 36	118 35 25	110 43 36	9 10 Light Distril	5 5 5
Photometric values based in compliance with LM-79		115 125 135	12 5 3	34 24 12	24 24 21	34 24 12	Degrees 0-30 0-40	
		145 155 165 175	2 1 1 1	4 1 1 1	11 3 1	4 1 1	0-60 0-90 90-120 90-130 90-150	

рсс		80					70			50	
PW RCR	70	50	30		_	70	50	30		50	30
0 1 2 3 4 5 6 7 8 9 10	117 108 97 89 81 75 68 64 58 56	117 103 89 78 68 61 55 50 46 41 39	117 97 81 69 59 53 46 40 36 34			114 104 94 85 79 71 67 61 57 54	114 100 86 76 67 59 54 48 45 40 38	114 95 80 68 58 52 46 40 36 33		109 94 82 72 65 57 52 46 42 40 36	109 92 77 66 56 50 45 40 35 33 29
Light Dis	tributio	n					Av	erage	e Lumin	ance	
0-30 0-40 0-60 0-90 90-120 90-130 90-150 90-180	11 18 33 43 9 1	nens 61 80 318 313 19 16 28		74.7 97.1 2.2 2.6 2.9 2.9	3	е		1 gle 45 55 65 75 85	End 6078 5434 4626 3704 2173	45° 5034 5059 4531 2883 1578	Cross 5182 4955 3867 2786 1433

DW Vaporlume LED sealed industrial

4', 3500, 4300, 5100, or 7000 lumens

4' Vaporlume LED DW, 5100 nominal lumens LER-111

		Candle	ower				Coefficie	nts of Utiliza	ition					
Catalog No.	DWAE51L840-4	Angle	End	45	Cross	Back-45	EFFECT	IVE FLOOR		FLECTAN		R (pfc=0.		
Test No.	32640	0	1729	1729	1729	1729	pcc	70 50		70	70 50 3	0	50 50	30
S/MH	1.2	5 15	1722 1666	1716 1651	1709 1632	1716 1651	RCR	70 30	30	70	30 3		30	30
Source	LED	13	1000	1651	1032	1031	0	117 117 108 103		114	114 1° 100 9	4	110	110
Input Watts	46	25 35	1542 1340	1523 1307	1494 1250	1523 1307	2	108 103 97 89		104 94	86 8		94 82	92 77
Delivered Lumens	5129	45	1091	1039	1117	1039	3	89 78		85	76 6		72	66
Delivered Lamens	3123	55 65 75	817 533 280	909 670 309	884 574 286	909 670 309	4 5 6 7	81 68 75 61 68 55 64 50	53 46 40	79 71 67 61	68 5 59 5 54 4 48 4	2 6 0	65 57 52 46	56 50 45 40
Comparative yearly lightir lumens — \$2.16 based on pwr KWH.		85 95 105	75 26 24	107 47 42	86 34 30	107 47 42	8 9 10 Light Dis	58 46 56 41 52 39	36 34 30	57 54 51	45 3 40 3 38 3	3	42 40 36	35 33 29
Photometric values based	Lunon tests performed	115	14	39	29	39	-					ge Lumin		
in compliance with LM-79		125 135	6	28 16	28 24	28 16	0-30 0-40	Lumens 1344 2176	% Lumir 26.1 42.3		Angle 45 55	7103 6447	45° 5648 5616	Cross 5790 5126
		145 155 165 175	3 2 2 2	5 2 2 2	12 3 2 2	5 2 2 2	0-60 0-90 90-120 90-130	3842 4992 114 133	74.7 97.1 2.2 2.6		65 75 85	5552 4486 2784	4964 2974 1530	3915 2465 1043
							90-150 90-180 0-180	148 149 5141	2.9 2.9 100.0)				

4' Vaporlume LED DW, 7000 nominal lumens LER-107

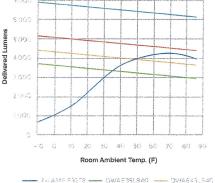
Catalog No.	DWAE70L840-4	Candler	oower				Coefficie	nts of Ut	filizati	on						
Test No. S/MH	32614 1.2	Angle 0 5	End 2357 2351	45 2357 2342	Cross 2357 2345	Back-45 2357 2342	pcc pw RCR	VE FLO	OR C/ 80 50	30 30	FCTAN 70	70 50	9ER (pfc=0.2	2 0) 50	30
Source Input Watts Delivered Lumens	LED 65 6985	15 25 35 45	2274 2101 1818 1467	2271 2105 1814 1462	2270 2089 1784 1586	2271 2105 1814 1462	0 1 2 3 4	117 108 97 89 81	117 103 89 78 68	117 97 81 69 59	114 105 94 85 79	114 100 86 76 67	114 95 80 68 58		109 94 82 72 65	109 92 77 66 56
Comparative yearly lightin lumens – \$2.24 based on KWH.	3000 hrs. and \$.08 pwr	55 65 75 85 95 105	1085 701 365 92 36 33	1302 959 469 170 67 57	1345 891 503 176 53 39	1302 959 469 170 67 57	5 6 7 8 9 10	75 68 64 58 56 52	61 55 50 46 41 39	52 46 40 36 34 30	71 67 61 57 54 51	59 54 48 45 40 38	52 46 40 36 33 30	Łumina	57 52 46 42 40 36	50 45 40 35 33 29
Photometric values based in compliance with LM-79		115 125 135 145 155 165 175	19 8 4 3 2 2 2	53 38 20 6 2 2 2	39 38 33 18 4 2 2	53 38 20 6 2 2 2	Degrees 0-30 0-40 0-60 0-90 90-120 90-130 90-150 90-180 0-180	Lun 18 29 52 67 15 18 20	nens 330 961 230 798 56 83 03 05	% Lumin 26.1 42.3 74.7 97.1 2.2 2.6 2.9 2.9		A	ngle 45 55 65 75 85	End 9554 8566 7304 5848 3444	45° 7946 8043 7108 4516 2433	Cross 8219 7802 6080 4329 2142

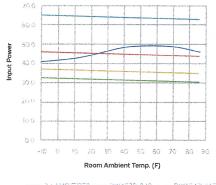
Vaporlume LED sealed industrial DW

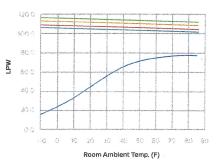
4', 3500, 4300, 5100, or 7000 lumens

Energy Data

Model	Initial Delivered Lumens @ 25°C Ambient	Input Power	Lumens per Watt	Application notes
DWAE35L840-4-UNV	3,699	32W	117 LPW	Slightly less than 2 lamp F32T8 at room temperature, 35% energy savings. Equivalent to 2 lamp F32T8 in refrigerator (40°F), 35% energy savings.
DWAE43L840-4-UNV	4,431	38W	116 LPW	Equivalent to 2 lamp F32T8 at room temperature, 15% energy savings. Double the output of 2 lamp F32T8 in freezer (25°F) at the SAME energy use.
DWAE51L840-4-UNV	5,129	46W	111 LPW	Equivalent to high ballast factor 2 lamp F32T8 at room temperature, 15% energy savings.
DWAE70L840-4-UNV	6,985	65W	107 LPW	Equivalent to 3 lamp F32T8 at room temperature, 30% energy savings.









Z-LAMP FIZT8 --- OWAE 35:840 --- DWAE 43:840



@ 2016 Philips Lighting Holding B.V. All rights reserved. Philips reserves the right to make changes in specifications and/or to discontinue any product at any time without notice or obligation and will not be liable for any consequences resulting from the use of this publication. philips.com/luminaires





Philips Lighting North America Corporation 200 Franklin Square Drive, Somerset, NJ 08873 Tel. 855-486-2216

Philips Lighting Canada Ltd. 281 Hillmount Rd, Markham, ON, Canada L6C 2S3 Tel. 800-668-9008



PROJECT NAME:	_CATALOG NUMBER:	
NOTES:	EIVTLIDE COUEDLILE.	

Page: 1 of 3

WALLMAX™ THIN CUT OFF

WP-AD SERIES

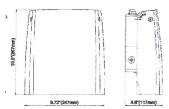


DIMENSIONS (SIZE 1): 15W, 20W & 29W:





DIMENSIONS (SIZE 2): 50W & 70W:











PRODUCT DESCRIPTION:

WallMax™ Thin Cut Off Wall Packs are constructed with pivoting heads that aim light precisely while minimizing glare and backlight. These durable, energy-saving fixtures are perfect for lighting outdoor walkways, landscapes, parking areas and perimeters. Efficacy for the series reaches up to 131 lm/W, translating to 75 percent energy savings over HID luminaires. The fixtures include a variable voltage photocell that provides further energy savings.

FEATURES:

- Fixture can be ordered standard with up to 90 degree adjustability or as a position down only model
- >80 CRI min
- Universal 120-277V power supply
- Power Factor > 0.9; THD < 20%
- 100,000-hour L70 lifetime, TM-21 standards @ 25°C
- Three 1/2 NPD knockouts available for mounting convenience

CONTROLS:

120-277VAC Photocell:

- Power the fixture when light levels reach 20 lux or below
- . Turn off the fixture at 30 lux or higher
- Operating temperature: 30°F-120°F

Needs to be 3000k

MODEL SELECTION	The second second		Typical order	еха	imple: WF-ADS	20U-50B		
WP-AD			U	•		В	-	
FAMILY	HOUSING SIZE	WATTAGE	VOLTAGE	-	сст	FINISH	-	CONTROLS
WP-AD = WallMax [™] Thin Cut Off	S= Small L= Large	15= 15W; 100W MH replacement 20= 20W; 150W MH replacement 29= 29W; 175W MH replacement 50= 50W; 250W MH replacement 70= 70W; 250W MH replacement	U= 120-277V		40= 4000K 750= 5000K	B= Bronze Contact Maxlite for additional finishes	- \	(OMIT)= None PC= 120-277V Photocell

1. Please, contact Maxlite for position down only (not adjustable) models.



WALLMAX™ THIN CUT OFF

WP-AD SERIES

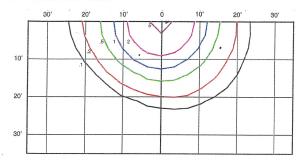
Page: 2 of 3

SPECIFICATI	ONS:	WP-ADS15	WP-ADS20	WP-ADS29	WP-ADL50	WP-ADL70					
ITEM	SPECIFICATION			DETAILS							
	Input Power (W)	15	20	29	50	70					
	Lumens Delivered (lm)	1,700	2,110	3,000	5,800	8,000					
	Efficacy (Im/W)		up to 105		up to 131	up to 116					
GENERAL PERFORMANCE	CRI	>80									
TEN GIAMATOL	Lumen Maintenance (L70)	≥100,000									
	Color Temperature			4000K, 5000K							
	Spacing Criteria	Available Upon Request									
	Power Factor	>.90									
ELECTRICAL	Input Voltage	120-277V									
	Housing	Die-cast aluminum + Prismatic Iens									
	Material Usage		R	oHS compliant; no merc	ury						
	Environment			Outdoor, Wet location	3						
CERTIFICATION	Qualifications			FCC, ETL, DLC Standard	d						
	Warranty			5 Years	7						
	Operating Temperature		-22	°F to 131°F (-30°C to 55	°C)						



LAYOUTS:

WP-ADS15U-50B:

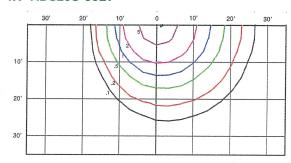


15W 10' MOUNTING HEIGHT

FOOT-CANDLE CORRECTION FACTOR:

NEW HEIGHT:	10'	15'	20'	25'
MULTIPLY BY:	1. 1	0.67	0.50	0.40

WP-ADS20U-50B:

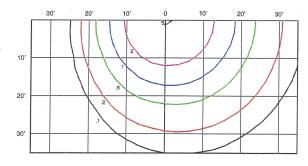


20W 10' MOUNTING HEIGHT

FOOT-CANDLE CORRECTION FACTOR:

NEW HEIGHT:	10'	15'	20'	25'
MULTIPLY BY:	1	0,67	0.50	0.40

WP-ADS29U-50B:

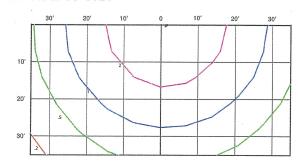


29W 15' MOUNTING HEIGHT

FOOT-CANDLE CORRECTION FACTOR:

NEW HEIGHT:	10'	15'	20'	25'
MULTIPLY BY:	1.50	1	0.75	0.50

WP-ADL70U-50B:



70W 30' MOUNTING HEIGHT

FOOT-CANDLE CORRECTION FACTOR:

NEW HEIGHT:	15'	20'	25'	30'
MULTIPLY BY:	2	1.50	1.20	1



BOWERS + KUBOTA CONSULTING

94-408 Akoki Street, Suite 201-A Walpahu, Hawali 96797 Phone: 808_836_7787 Tetefax: 808_834_4833

LETTER OF TRANSMITTAL

• Project Management • Planning • Architectural/Engineering Design • Construction Management HawaiiBusiness' 2018 Best Places to Work

то: Е	ingineered System	s Inc		DATE	· N	November 23, 2018	PROJ NO.	IFB-19-HHL-001			
P	O. Box 865 / 201	Kapaa Quarry Place #:	2505	ATTE	NTION:	Andrew Lo					
	ailua, HI 96734			RE:	***********	la Farm Lots Wate	r Project Ph	. 11			
						Tank Replacement					
***************************************				B+K Transmittal No. 05							
			000000 мдо очено пососно на пред на пр	1			-				
WE A	RE SENDING YO	U X Attached			Via:	EMA	AIL	the following items:			
S	Shop drawings	Prints	Plans			Samples	Speci	fications			
C	Copy of letter	Change order		the base of the second of the							
COPIES	DATE				DESCI	RIPTION					
1	11/23/18	Response to Engineere	ed Systems Reques	st for Sub	stitutio	ı for:					
							oster Pump	System; 4. Pump Control Valvi			
				NEOCONO ANTO NATURAL ANTONO CONTRACTOR DE CONTRACTOR DE CONTRACTOR DE CONTRACTOR DE CONTRACTOR DE CONTRACTOR D							
V.i						***************************************					
				NITO CONTROL SECURIO CONTROL SECURIO CONTROL SECURIO CONTROL SECURIO CONTROL SECURIO CONTROL SECURIO CONTROL S							
THESE A	RE TRANSMITTE	D as checked below:									
F	or approval		Approved as sub	mitted		Resubmit	copies	s for approval			
X F	or your use and ir	nfo	Approved as not	ed		Submit	copies	s for distribution			
Α	s requested		Returned for corr	rections		Return	correc	eted prints			
F	or review and con	nment									
F	OR BIDS DUE			20	nanova annanova ny	PRINTS RETU	JRNED AFT	ER LOAN TO US			
REMARK		d responses for request		ackaged	line bo	oster pump systen	ı, Pump Co	ntrol valve, Air/vacuum va			
	edinere et et e				***************************************) () () () () () () () () () (
·			***************************************								
COPY TO:	: Wayne Nakamu	ıra, DHHL									
	Files		**************************************			£=					
			CONTRACTOR CONTRACTOR CONTRACTOR AND CONTRACTOR CONTRAC	SIC	GNED	->					
						Steve le	ntile	Bowers+Kubota			



Nakamura, Wayne H

From: Steve lentile <sientile@bowersandkubota.com>

Sent: Friday, November 23, 2018 12:06 PM

To: Andrew Lo

Cc: Nakamura, Wayne H; Charissa Riofta; Paul Scott; Dan Murakami

Subject: RE: SUBSTITUTION REQUEST: IFB-19-HHL-001 Anahola FLWP, Phase II: Packaged line

booster pump system, valves

Attachments: B+K LOT No.05; Air Vacuum Valve; Center Guided Silent Check Valve; Packaged Line

Booster Pump System; Pump Control Valve.pdf

Andrew; Please see the attached BK Transmittal No. 05 – Response to Substitution Request for 1. Air / Vacuum Valve; 2. Center Guided Silent Check Valve; 3. Packaged Line Booster Pump System; 4. Pump Control Valve.

Thanks

Steve lentile

Bowers + Kubota Consulting Bowers + Kubota Management

HawaiiBusiness' 2018 Best Places to Work

Mobile: (808) 286-3830

Main Office: (808) 836-7787 / (808) 833-1841

Fax: (808) 834-4833

Please consider the environment before printing this e-mail

From: Nakamura, Wayne H < wayne.h.nakamura@hawaii.gov>

Sent: Monday, November 19, 2018 12:00 PM

To: Andrew Lo <andrew@engineeredsystemshawaii.com>; Dan Murakami <dan@engineeredsystemshawaii.com>; Paul Scott <paulscott@engineeredsystemshawaii.com>

Cc: Steve lentile <sientile@bowersandkubota.com>; Charissa Riofta <criofta@bowersandkubota.com>; Jeremy Michelson <JMichelson@OCEANIT.COM>; Nakamura, Wayne H <wayne.h.nakamura@hawaii.gov>

Subject: FW: SUBSTITUTION REQUEST: IFB-19-HHL-001 Anahola FLWP, Phase II: Packaged line booster pump system, valves

Hi Andrew,

Project: Anahola Farm Lots Water Project, Phase II- Water Tank Replacment & Facility Improvements

Public Water Systerm No. 432, Anahola, Kauai, Hawaii

RE: Request for Substitution – Packaged line booster pump system, Pump control valve, Air/vacuum valve, Center-guided check valve (4 total)

DHHL has received your Request for Substitution and our Consultants will be reviewing it. You will be notified after a determination is made.

Mahalo,

Wayne Nakamura Project Manager Land Development Division Department of Hawaiian Home Lands

Phone: 808-620-9275

Email: wayne.h.nakamura@hawaii.gov

From: Andrew Lo <andrew@engineeredsystemshawaii.com>

Sent: Friday, November 16, 2018 12:16 PM

To: Nakamura, Wayne H < wayne.h.nakamura@hawaii.gov >

Cc: Dan Murakami < dan@engineeredsystemshawaii.com >; Paul Scott < paulscott@engineeredsystemshawaii.com >

Subject: SUBSTITUTION REQUEST: IFB-19-HHL-001 Anahola Farm Lot Water Project, Phase II

Good Afternoon Wayne,

Could you please review the attached substitution request? I have attached requests for the Packaged line booster pump system, Pump control valve, Air/vacuum valve, and Center-guided check valve (4 total).

Thank you,
Andrew Lo
Engineered Systems Inc.
P.O. Box 865 / 201 Kapaa Quarry Place #2505
Kailua, Hawaii 96734
Phy (808) 263-2232

Ph: (808) 263-2232 Fax: (808) 263-3928

www.engineeredsystemshawaii.com

CONFIDENTIALITY NOTICE

The information in this email may be confidential and/or privileged. This email is intended to be reviewed by only the addressee(s) named above. If you are not the intended recipient, you are hereby notified that any review, dissemination, copying, use or storage of this email and its attachments, if any, or the information contained herein is prohibited. If you have received this email in error, please immediately notify the sender by phone and delete this email from your system. Thank you.



PROJECT:	Anahola Farm Lots Water Pr Facility Improvements	roject	Phase II – Water Tank Replacement &					
SUBSTITUTION REQUEST: Air/Vacuum Valve								
SPEC NO: 304.04 Pump Station Mechanical Equipment Paragraph 304.04.C.1.c								
DRAWING NO:	<u>M-4</u>							
Reviewed By: <u>Terra</u>	nce Nago Date	e: <u>N o</u>	<u>v e m b e r 20, 2018</u>					
Reviewed	d, No Exceptions Noted		Resubmit					
Reviewed	d, Exceptions Noted		Do Not Resubmit					
Submit S _l	pecified Item(s)		Rejected					
Reviewed only for general conformance with the design concept of the project and general compliance with the information given in the contract documents. Any action shown is subject to the requirements of the plans and specifications. Contractor's responsibility includes but is not limited to: dimensions, which shall be confirmed and correlated at the jobsite, fabrication processes, techniques of construction, coordination of his work with all other trades, safety precautions, and the satisfactory performance of his work.								

Comments: Recommend approval for the Val-Matic Model 103S A/V Valve subject to the following comments.

- 1. Since the inlet connection is not flanged, the Contractor shall make the necessary piping modifications to accommodate the threaded inlet of this air valve.
- 2. The Contractor shall still provide the mushroom cap per the plans and specifications.



PROJECT:	<u>Anahola Farm Lots Water Project Phase II – Water Tank Replacement &</u> Facility Improvements				
SUBSTITUTION					
REQUEST:	Center-Guided Silent Check Valve				
SPEC NO:	304.04 Pump Station Mechanical Equipment Paragraph 304.04.C.1.b				
DRAWING NO:	<u>M-4</u>				
Reviewed By: <u>Terra</u>	nce Nago Date: November 20, 2018				
Reviewed	, No Exceptions Noted Resubmit				
Reviewed	, Exceptions Noted Do Not Resubmit				
Submit Sp	pecified Item(s) Rejected				
compliance with the subject to the requir- includes but is not lir jobsite, fabrication p	eneral conformance with the design concept of the project and general information given in the contract documents. Any action shown is ements of the plans and specifications. Contractor's responsibility mited to: dimensions, which shall be confirmed and correlated at the rocesses, techniques of construction, coordination of his work with all				
other trades, safety precautions, and the satisfactory performance of his work.					

Comments: Recommend approval for the Val-Matic Model 1808A Silent Check Valve subject to the following comments.

- 1. The body of the valve shall be ductile iron A536 option.
- 2. The face to face dimension is larger for this valve. The Contractor shall make the necessary adjustments to the discharge piping. Maintain the necessary upstream straight pipe length for the flow tube.
- 3. Seat shall be stainless steel A351 option.



PROJECT: <u>Anahola Farm Lots Water Project Phase II – Water Tank Replacements</u> <u>Facility Improvements</u>					
SUBSTITUTION REQUEST:	Packaged Line Booster Pump System				
SPEC NO:	304.04 Pump Station Mechanical Equipment Paragraph 304.04.K				
DRAWING NO:	<u>M-5</u>				
Reviewed By: <u>Terra</u>	nce Nago	Date: No	v e m b e r 20, 2018		
Reviewed	d, No Exceptions Noted		Resubmit		
Reviewed	d, Exceptions Noted		Do Not Resubmit		
Submit S	pecified Item(s)		Rejected		
Reviewed only for general conformance with the design concept of the project and general compliance with the information given in the contract documents. Any action shown is subject to the requirements of the plans and specifications. Contractor's responsibility includes but is not limited to: dimensions, which shall be confirmed and correlated at the jobsite, fabrication processes, techniques of construction, coordination of his work with all other trades, safety precautions, and the satisfactory performance of his work.					

Comments: Recommend approval for the QuantumFlo Genius Triplex Packaged Booster Pump System subject to the following comments.

- 1. A suitable fiberglass enclosure for this pump system shall still be provided.
- 2. The specified Premierflo product comes with a premium efficiency motor for each pump. The QuantumFlo supplier shall provide the same.
- 3. Pipe manifolds shall be type 316 stainless steel.
- 4. The Contractor shall be responsible for any piping and electrical modifications to suit this substitute product.



PROJECT: SUBSTITUTION	<u>Anahola Farm Lots Water Project Phase II – Water Tank Replacement & Facility Improvements</u>				
REQUEST:	Pump Control Valve				
SPEC NO:	304.04 Pump Station Mecha Paragraph 304.04.C.1.a	nical	Equipment		
DRAWING NO:	<u>M-4</u>				
Reviewed By: Terrance Nago Date: November 21, 2018					
Reviewed	d, No Exceptions Noted		Resubmit		
Reviewed	d, Exceptions Noted		Do Not Resubmit		
Submit S	pecified Item(s)	\boxtimes	Rejected		
Reviewed only for general conformance with the design concept of the project and general compliance with the information given in the contract documents. Any action shown is subject to the requirements of the plans and specifications. Contractor's responsibility includes but is not limited to: dimensions, which shall be confirmed and correlated at the jobsite, fabrication processes, techniques of construction, coordination of his work with all other trades, safety precautions, and the satisfactory performance of his work.					

Comments:

Recommend disapproval for the Singer Model 106-DW Pump Control Valve. This valve is not in the Approved Material List of the Water System Standards, dated 2002, as amended. The pump control valve must comply with the Water System Standards per Paragraph 304.04.A.1.



• Project Management • Planning • Architectural/Engineering Design • Construction Management Hawaii Business' 2018 Best Places to Work

94-408 Akoki Street, Suite 201-A Walpahu, Hawaii 96797 Phone: 808_836_7787 Telefax: 808_834_4833

LETTER OF TRANSMITTAL

TO: SHE	EARER & ASS	OCIATES		DATE:	N	lovember 23,120	DI8 PROJ NO).: IFB-19-HHL-001
				ATTEN	TION:	Tom Shea	ırer	
			50500000000000000000000000000000000000	RE:	MACHINE CONTRACTOR OF THE PARTY	la Farm Lots W	THE RESERVE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAME	
	***************************************							ty Improvements
-				B+K Transmittal No. 08				
WE ARE	E SENDING YO	U X Attached			Via:	E	EMAIL	the following items:
Sho	p drawings	Prints	Plans			Samples	Spec	cifications
Cop	y of letter	Change order	***				***	
COPIES	DATE				DESCR	IPTION		
1	11/23/18	Response - Request for Substitution; Temporary Steel Tank						
						10170000010000000000000000000000000000		
					777			
					00450455000000000000000000000000000000			
THESE ARE	TRANSMITTE	D as checked below:						
For approval App		Approved as sub	mitted		Resubmit	copi	es for approval	
X For your use and info Approved		Approved as note	ed		Submit	сорі	es for distribution	

Returned for corrections



As requested

FOR BIDS DUE

COPY TO: Wayne Nakamura, DHHL

For review and comment

REMARKS: See attached comments on Substitution Request Review.

SIGNED

20

Return

corrected prints

PRINTS RETURNED AFTER LOAN TO US

Nakamura, Wayne H

From:

Steve lentile <sientile@bowersandkubota.com>

Sent:

Friday, November 23, 2018 1:52 PM

To:

Tom Shearer

Cc:

Nakamura, Wayne H; Charissa Riofta

Subject:

RE: Anahola FLWP, Phase II: Substitution Request- Hydrotec CS bolted chime panel tank

- RESPONSE

Attachments:

B+K 08 Temp Steel Tank.pdf

Tom: Please see the attached BK Transmittal No. 08 – Response to Substitution Request - CST Hydrotec CS bolted chime panel tank.

Thanks

Steve lentile

Bowers + Kubota Consulting Bowers + Kubota Management

HawaiiBusiness' 2018 Best Places to Work

Mobile: (808) 286-3830

Main Office: (808) 836-7787 / (808) 833-1841

Fax: (808) 834-4833

Please consider the environment before printing this e-mail

From: Nakamura, Wayne H < wayne.h.nakamura@hawaii.gov>

Sent: Monday, November 19, 2018 5:29 PM

To: Tom Shearer <tshearer@shearerandassociates.com>

Cc: Steve lentile <sientile@bowersandkubota.com>; Charissa Riofta <criofta@bowersandkubota.com>; Jeremy

Michelson <JMichelson@OCEANIT.COM>; Nakamura, Wayne H <wayne.h.nakamura@hawaii.gov> Subject: FW: Anahola FLWP, Phase II: Substitution Request- Hydrotec CS bolted chim panel tank

Hi Tom,

Project: Anahola Farm Lots Water Project, Phase II- Water Tank Replacment & Facility Improvements
Public Water System No. 432, Anahola, Kauai, Hawaii

RE: Request for Substitution – CST Hydrotec CS bolted chim panel tank

DHHL has received your follow-up **Request for Substitution** and our Consultants will be reviewing it. You will be notified after a determination is made.

Mahalo,

Wayne Nakamura Project Manager Land Development Division Department of Hawaiian Home Lands

Phone: 808-620-9275

Email: wayne.h.nakamura@hawaii.gov

From: Tom Shearer <tshearer@shearerandassociates.com>

Sent: Friday, November 16, 2018 5:48 AM

To: Nakamura, Wayne H < wayne.h.nakamura@hawaii.gov>

Subject: RE: Anahola Farm Lots Water Project - Temporary Steel Water Tank

Wayne, Thank you for your reply. Since my previous email, I have learned that the our galvanized tank is actually more expensive than our standard epoxy painted bolted chim Hydrotec CS tank. Therefore I'd like to change our substitution request to the CST Hydrotec CS bolted chim panel tank. A specification is included as well as a brochure which includes additional information on this tank. Please let me know if any questions. Thank you.

Best Regards,

Tom Shearer



Shearer & Associates, Inc. | tel. 360-666-5600 | fax 360-666-5603 | shearerandassociates.com

CONFIDENTIALITY NOTICE: This email transmission is intended only for the addressee(s) named herein. It contains Information that is privileged, confidential, or otherwise protected from use and disclosure. If you have received this email in error, please notify us by telephone immediately. Also, please be aware that any review, disclosure, copying or dissemination of this transmission or the taking of any action in reliance on its contents, or other use is prohibited. Thank you for your cooperation.

From: Nakamura, Wayne H < wayne.h.nakamura@hawaii.gov >

Sent: Thursday, November 15, 2018 6:01 PM

To: Tom Shearer < tshearer@shearerandassociates.com <a href="mailto:center-align:center-ali

Subject: FW: Anahola Farm Lots Water Project - Temporary Steel Water Tank

Hi Tom,

Project: Anahola Farm Lots Water Project, Phase II- Water Tank Replacment & Facility Improvements

Public Water Systerm No. 432, Anahola, Kauai, Hawaii

RE: Request for Substitution – bolted galvanized water storage tank

DHHL has received your Request for Substitution and our Consultants will be reviewing it. You will be notified after a determination is made.

Mahalo,

Wayne Nakamura
Project Manager
Land Development Division
Department of Hawaiian Home Lands

Phone: 808-620-9275

Email: wayne.h.nakamura@hawaii.gov

From: Tom Shearer < tshearer@shearerandassociates.com >

Sent: Thursday, November 15, 2018 12:01 PM

To: Nakamura, Wayne H < wayne.h.nakamura@hawaii.gov >

Subject: Anahola Farm Lots Water Project - Temporary Steel Water Tank

Mr. Nakamura:

I would like to request acceptance of or substitution of a bolted galvanized water storage tank manufactured by CST Storage of Parsons, KS. Our company, Shearer & Associates, Inc is a dealer for CST Storage as well as an authorized erector and General Contractor licensed in the State of Hawaii. I have attached the tank specification, as well as our reference list. These tanks consist of bolted panels with gaskets. They are fully NSF approved and made in the USA. I believe they will meet all requirements of the project and be an excellent selection for a temporary tank. Please let me know any additional documentation that may be required for acceptance. I will await your reply or direction. Thank you.

Best Regards,

Tom Shearer



Shearer & Associates, Inc. | tel. 360-666-5600 | fax 360-666-5603 | shearerandassociates.com

CONFIDENTIALITY NOTICE: This email transmission is intended only for the addressee(s) named herein. It contains Information that is privileged, confidential, or otherwise protected from use and disclosure. If you have received this email in error, please notify us by telephone immediately. Also, please be aware that any review, disclosure, copying or dissemination of this transmission or the taking of any action in reliance on its contents, or other use is prohibited. Thank you for your cooperation.



SUBSTITUTION REQUEST REVIEW

(Page 1 of 1)

PROJECT:	Anahola Farm Lots Water Project Phase II – Water Tank Replacement & Facility Improvements				
SUBSTITUTION REQUEST:	Temporary Steel Tank				
SPEC NO:	Section 13201 – Temporary Steel Water Tank Paragraph 13201.1.03 (A)				
DRAWING NO:	<u>C-2</u>				
Reviewed By: <u>Jeremy Michelson</u> Date: <u>11/21/2018</u>					
□Reviewed, No Exceptions Noted □Resubmit					
⊠Reviewed, Exception	□Do Not Resubmit				
☐Submit Specified It	□Rejected				
Reviewed only for general conformance with the design concept of the project and general compliance with the information given in the contract documents. Any action shown is subject to the requirements of the plans and specifications. Contractor's responsibility includes but is not limited to: dimensions, which shall be confirmed and correlated at the jobsite, fabrication processes, techniques of construction, coordination of his work with all other trades, safety precautions, and the satisfactory performance of his work.					

Comments: Recommend approval for the CST Hydrotec CS bolted chime panel tank subject to the following comments.

- 1. The tank manufacturer will provide stamped shop drawings, structural design calculations and tank foundation design by a Hawaii licensed structural engineer.
- 2. The diameter of the outer edge of the tank foundation/concrete ring wall shall be 35'-0" or less, in order to maintain the 10' wide access road around the tank.