

**NON-CHAPTER 343 DOCUMENT
PUBLICATION FORM
OFFICE OF ENVIRONMENTAL QUALITY CONTROL**

Project Name: Lihue Aerated Solids Contact Tank Improvement

Applicable Law: 36 CFR Part 800

Type of Document: National Historic Preservation Act Section 106

Island: Kauai

District: Kalapaki Ahupua'a, Puna District

TMK: (4) 3-5-001:030

Permits Required: N/A

Applicant or Proposing Agency:

(Address, Contact Person, Telephone, E-mail)

State of Hawaii, Department of Health, Environmental Management Division, Wastewater Branch
2827 Waimano Home Road, Rm. 207

Pearl City, HI 96782

Contact and Phone: Chane Hayashida, (808) 586-4294, Chane.Hayashida@doh.hawaii.gov

Approving Agency or Accepting Authority:

(Address, Contact Person, Telephone, E-mail)

State of Hawaii, Department of Health, Environmental Management Division, Wastewater Branch
2827 Waimano Home Road, Rm. 207

Pearl City, HI 96782

Contact and Phone: Chane Hayashida, (808) 586-4294, Chane.Hayashida@doh.hawaii.gov

Consultant:

(Address, Contact Person, Telephone, E-mail)

Brown and Caldwell

737 Bishop Street, Suite 3000

Honolulu, HI 96813

Contact and Phone: Joshua Schwartzlow, (808) 203-2672, jschwartzlow@brwncald.com

Status: Comments due no later than January 22, 2025 to:

Attn: Chane Hayashida

Department of Health, Wastewater Branch

2827 Waimano Home Road, Rm. 207

Pearl City, HI 96782

Email: wwb@doh.hawaii.gov

Project Summary:

(Summarize proposed action and purpose/need in less than 200 words in the space below):

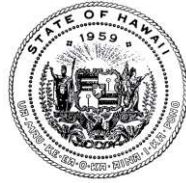
The Department of Health (DOH) reinitiated Section 106 of the NHPA consultation with the State Historic Preservation Division (SHPD) in accordance with 36 CFR Part 800. In 1990, the U.S. Environmental Protection Agency (EPA) designated the DOH to act on EPA's behalf, pursuant to 36 CFR §800.2 (c) (4), when initiating Section 106 of the NHPA process in connection with projects funded under the Hawai'i Clean Water State Revolving Fund (CWSRF). The DOH is providing funding under the CWSRF to the County of Kauai for the Lihue Aerated Solids Contact Tank Improvement. The proposed project will utilize federal

funding and is considered an undertaking, as defined by Section 106 of the NHPA, 54 U.S.C. §306101 et seq., and 36 CFR Part 800.

The undertaking consists of upgrading the headworks and the aerated solids contact tank at the Līhu‘e Wastewater Treatment Plant (WWTP) to improve service reliability within the Līhu‘e area. The modification to the headworks will include removing a portion of a concrete wall and reinforcing the remaining wall. The modifications to the aerated solids contact tank will include replacing the existing diffusers, air piping, and effluent baffles with new equipment. The improvements will also include the installation of new instrumentation and control valves. All equipment will be replaced or installed in a similar footprint to the existing equipment. All construction activities will be within the 5.0 acre Līhu‘e WWTP parcel (TMK (4) 3-5-001:030).

The DOH has engaged SHPD to determine the presence of potential sites of historic importance within the vicinity of the project area as well as the potential impact of the project on such sites, if present.

JOSH GREEN, M.D.
GOVERNOR OF HAWAII
KE KIA'AINA O KA MOKU'AINA 'O HAWAII



KENNETH S. FINK, MD, MGA, MPH
DIRECTOR OF HEALTH
KA LUNA HO'OLELE

STATE OF HAWAII
DEPARTMENT OF HEALTH
KA 'OIHANA OLAKINO
P. O. BOX 3378
HONOLULU, HI 96801-3378

In reply, please refer to:
File:

59-31 S106 ltr (resubmitted - APE&Scope changes) SHPD.docx

December 3, 2024

Jessica L. Puff, Administrator
State of Hawai'i, Department of Land and Natural Resources
State Historic Preservation Division
601 Kamokila Boulevard, Rm. 555
Kapolei, HI 96707
Submitted via: SHPD HICRIS

Dear Ms. Puff:

Subject: National Historic Preservation Act (NHPA)
Request to Initiate Section 106 Consultation
Lihue Aerated Solids Contact Tank Improvement
Clean Water State Revolving Fund (CWSRF) Project No. C150059-31
Kalapaki Ahupua'a, Puna District, Island of Kaua'i, Hawai'i
TMK: (4) 3-5-001:030
State Historic Preservation Division (SHPD) Project No. 2024PR00799

On behalf of the Environmental Protection Agency (EPA), the State of Hawai'i Department of Health (DOH) requests to reinstate Section 106 consultation with the State Historic Preservation Officer (SHPO) for the proposed Lihue Aerated Solids Contact Tank Improvement project located in Kalapaki Ahupua'a, Puna District, Island of Kaua'i, Hawai'i.

The proposed project may be eligible to utilize federal funding that is administered by the DOH through CWSRF and will be considered a federal action and undertaking, as defined by Section 106 of the NHPA of 1966 (as amended 2014), Title 54 of the United States Code (54 USC) Section 306108, and Title 36 of the Code of Federal Regulations (36 CFR) Part 800.

The EPA has authorized the DOH to act on behalf of the EPA regarding NHPA Section 106 notification and consultation. This letter is to request to reinstate the Section 106 consultation process with the SHPO and State Historic Preservation Division (SHPD) in accordance with 36 CFR, Section 800.3.

The DOH may provide funding under the CWSRF to the County of Kaua'i (COK), Department of Public Works for the Lihue Aerated Solids Contact Tank Improvement project.

Overview of Undertaking

The project would upgrade the headworks and the aerated solids contact tank at the Līhu'e Wastewater Treatment Plant (WWTP) to improve service reliability within the Līhu'e area. The

modification to the headworks will include removing a portion of a concrete wall and reinforcing the remaining wall. The modifications to the aerated solids contact tank will include replacing the existing diffusers, air piping, and effluent baffles with new equipment. The improvements will also include the installation of new instrumentation and control valves. All equipment will be replaced or installed in a similar footprint to the existing equipment. All construction activities will be within the 5.0 acre Līhu'e WWTP parcel (TMK (4) 3-5-001:030). See *Attachment A* for the draft drawings of the proposed work.

Area of Potential Effect (APE)

The proposed APE is approximately 5.0 acre (TMK (4) 3-5-001:030). The modification to the headworks requires no ground disturbance and will remain within the existing system's footprint. Construction activities associated with the upgrade of the aerated solids contact tank involve trench excavation, air piping installation, duct bank installation, backfilling, and returning the surface to the original grade. The excavation for the pipe will be approximately 4-feet deep, 3-foot wide, and 48-linear feet long. The excavation of the duct bank will be approximately 4-feet deep, 2-feet wide, and 108-linear feet long. See *Attachment B and C* for the APE and TMK Map and site photos.

Cultural, Historical, and Archaeological Background

The project area is in the Līhu'e neighborhood of Kaua'i in the moku (traditional Hawaiian District) of Puna, and the ahupua'a (traditional land division) of Kalapakī. The ahupua'a of Kalapakī is a very old land division that was permanently inhabited and intensively used in Pre-Contact Hawai'i. The coastal zones were the locus for permanent habitation and numerous trails. There were fishponds at Kalapakī, and intensive agriculture within the valley floodplain of Nāwiliwili River. The dryland areas contained native forest and were cultivated with crops of wauke, sweet potatoes, and gourds. Many features of the landscape are described in legends and historic documents. With the emergence of the sugar industry in the 1800s, Līhu'e became the central city of the island with the construction of sugar plantations and a large sugar mill.

Topography in the project area is slightly sloped with elevations ranging from 125 to 130 feet above mean sea level. The project area is approximately 0.6 miles inland from the coastline. The soils within the APE consist of Līhu'e silty clay, 0-8% slope, Līhu'e silty clay, 25-40% slope, eroded, and Līhu'e gravelly silty clay, 0-8% slope. Based on as-built research, the treatment plant has been subjected to major development with various projects in 1981, 1997, 2002, and 2019.

Previous Archaeological Research

Eight studies have taken place in the vicinity of the proposed undertaking. In 1980, personnel of Archaeological Research Center Hawaii, Inc. completed preliminary archaeological monitoring of two parcels in Ninini Point area, Kalapakī, Puna. Both parcels were examined for archaeological remains and/or historic remains, but none were found.

An archaeological survey was completed in a portion of coastal land in Kalapakī (Stride and Hammatt, 1988). No archaeological sites were identified.

McMahon (2005) conducted a Historic Preservation Review for the Kauai Development LLC/KD Golf Ownership LLC, for the following TMKs: (4) 3-5-01:27, (4) 3-5-01:165, (4) 3-5-01:168, (4) 3-5-01:169, (4) 3-5-01:170, (4) 3-5-01:171, (4) 3-5-01:172, and (4) 3-5-01:173. There were no historic properties present because intensive cultivation has altered the land and an archaeological assessment found no historic properties.

Altizer and Hammatt (2014) completed an archaeological inventory survey report for the Nawiliwili-Ahukini Bike Path Project. The report found a total of 15 historic properties within the project area, including two habitation terraces, an activity area, and a possible burial mound. The historic properties identified as part of this survey are located along the coastline of Ninini and Ahukini Point, which is over 1,000 feet from the Līhu'e WWTP property.

An archaeological inventory survey was conducted for Island Helicopters Kaua'i, Inc. for a proposed administration and customer service building. Previous records have indicated a survey was conducted for the Līhu'e airport improvements in 2006 (Barnes et al 2006), which shows the project area has been developed and paved for airport use. Based on the previous land disturbance and lack of historic properties in the surrounding area, there are no historic properties in the area (Naone, 2015).

Summary of Historic Properties in the Vicinity of the APE

To the knowledge of the COK, there are multiple historic properties located within the APE. According to as-built research the Aerated Solids Contact Tank, Chlorine Contact Tank, Sludge Drying Beds, Digester Tanks, and Control Building were constructed and put into service in 1966. Based on the definition of a historic property in HRS 6E-2, the Aerated Solid Contact Tank, Chlorine Contact Tank, Sludge Drying Beds, Digester Tanks, and Control Building qualifies as a historic property.

The Aerated Solids Contact Tank, Chlorine Contact Tank, Sludge Drying Beds, Digester Tanks, and Control Building are not registered on the Hawai'i Register of Historic Places, nor on the National Registers of Historic Places. It does not appear that the Aerated Solids Contact Tank Chlorine Contact Tank, Sludge Drying Beds, Digester Tanks, and Control Building are significant historic properties.

The COK conducted archival research of the Environmental Review Program database of environmental assessments (EAs) and the environmental impact statements (EISs) to identify historic properties within or adjacent to the project area. The COK reviewed EAs and EISs which included documents pertaining to the Līhu'e Airport (State of Hawaii, Department of Transportation, Airport Division, 2018), Nawiliwili-Ahukini Bike Path (State of Hawaii, Department of Transportation, Highways Division, 2017), Nawiliwili Harbor (State of Hawaii, Department of Transportation, Harbor Division, 2017), and Līhu'e WWTP (County of Kauai, Department of Public Works, Division of Wastewater Management, 2007). The COK determined that although there were some significant historic properties identified within the adjacent parcels none of them are located near the WWTP and will not be impacted by the project.

The COK also asserts that the ground surface within Līhu'e WWTP is no longer original. Significant construction activities were completed at this facility in 1981, 1997, 2002, and 2019 which has subjected the property to major development. The ground has been previously disturbed to the extent that no subsurface archaeological sites are likely to exist. The extent of previous surface and subsurface disturbances suggests that no intact buried archaeological material is likely to be encountered during ground disturbances associated with the project.

Consultations

Section 106 consultation letters have also been sent to Native Hawaiian organizations, consulting parties, and/or interested persons that might attach significance to this area and have invited them to participate in the process. The mailing list is provided in *Attachment D*.

We welcome any comments that you may have on this project's proposed improvements.

We are particularly interested in any information you may have on the historic and cultural sites that have been recorded in the area. In addition, if you are acquainted with any persons or organizations that are knowledgeable about the proposed project area or any descendants with ancestral, lineal, or cultural ties to, cultural knowledge or concerns for, and/or cultural or religious attachment to the proposed project area, then we would appreciate receiving their names and contact information.

We would appreciate a written response within thirty (30) calendar days from receipt of this letter. Please address any written comments to email: chane.hayashida@doh.hawaii.gov or the following address:

Attn: Chane Hayashida
Department of Health, Wastewater Branch
2827 Waimano Home Road, Room 207
Pearl City, HI 96782

Should you have any questions, please contact Chane Hayashida at (808) 586-4294.

Sincerely,



JONATHAN NAGATO, P.E., CHIEF
Wastewater Branch

Attachments

DO/CH:jn

c: Donald Fujimoto (via email dfujimoto@kauai.gov)
Troy Tanigawa (via email TTanigawa@kauai.gov)
Donn Kakuda (via email dkakuda@kauai.gov)
Stephanie Chin (via email skchin@BrwnCald.com)
Joshua Schwartzlow (via email JSchwartzlow@BrwnCald.com)

Attachment A

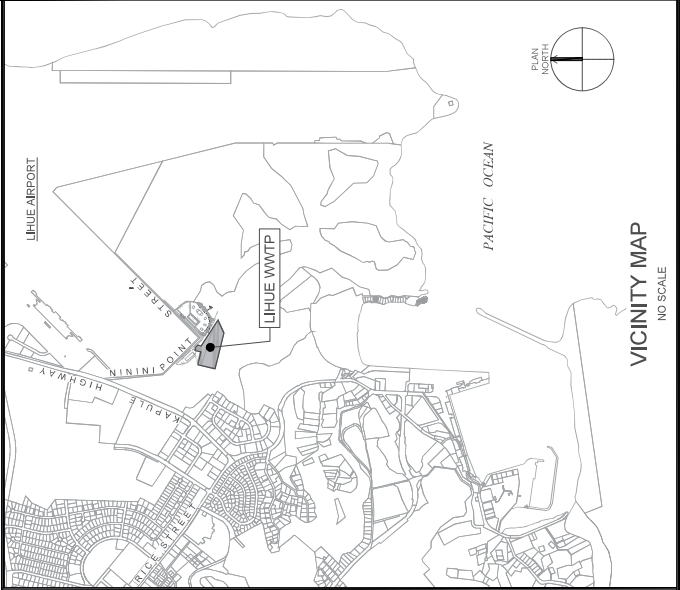
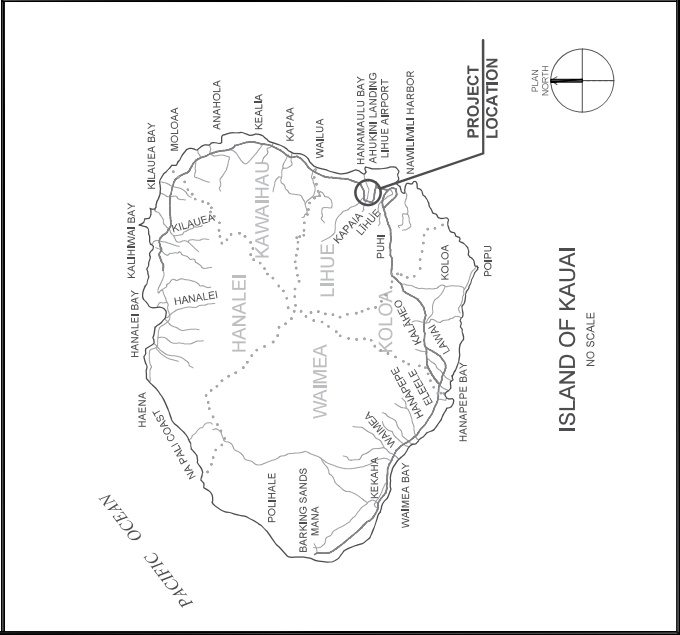
LIHUE AERATED SOLIDS CONTACT TANK IMPROVEMENT

TMK: 3-5-001:030

LIHUE, KAUAI, HAWAII
 DIVISION OF WASTEWATER MANAGEMENT
 DEPARTMENT OF PUBLIC WORKS
 COUNTY OF KAUAI

PREPARED BY:
 BROWN AND CALDWELL
 737 BISHOP STREET, SUITE 3000
 PACIFIC GUARDIAN CENTER - MAUKA TOWER
 HONOLULU, HI 96813-4020

LOCATION MAPS



APPROVALS

COUNTY ENGINEER DEPARTMENT OF PUBLIC WORKS COUNTY OF KAUAI	DATE
CHIEF WASTEWATER MANAGEMENT DIVISION DEPARTMENT OF PUBLIC WORKS COUNTY OF KAUAI	DATE

INDEX OF DRAWINGS

SHEET	DWG NO.	DESCRIPTION
GENERAL		
1	T001	TITLE, LOCATION AND VICINITY MAPS
2	G001	INDEX OF DRAWINGS
3	G002	ABBREVIATIONS
4	G003	GENERAL CONSTRUCTION NOTES
5	G004	CONSTRUCTION NOTES
6	G005	LOCATION MAP
CIVIL		
7	C001	EROSION CONTROL BMP NOTES
8	C002	YARD PIPING PLAN AND CIVIL DETAIL
9	C003	AIR SUPPLY PIPE PROFILE
10	C004	EROSION AND SEDIMENT CONTROL PLAN
STRUCTURAL		
11	S001	GENERAL NOTES AND TYPICAL DETAILS
12	S101	PARTIAL HEADWORKS PLAN AND SECTION
13	S102	TYPICAL DETAILS
P&ID		
14	P001	LEGEND AND SYMBOLS
15	P101	AERATED SOLIDS CONTACT TANK - 1
16	P102	AERATED SOLIDS CONTACT TANK - 2
MECHANICAL		
17	M001	STANDARD SYMBOLS AND NOTES
18	M002	MISCELLANEOUS DETAILS
19	M101	SOLIDS CONTACT TANKS DEMOLITION PLAN
20	M102	SOLIDS CONTACT TANKS GROUND LEVEL PLAN
ELECTRICAL		
21	E001	ELECTRICAL LEGEND - 1
22	E002	ELECTRICAL LEGEND - 2
23	E003	ELECTRICAL NOTES AND ABBREVIATIONS
24	E004	ELECTRICAL DETAILS - 1
25	E005	ELECTRICAL DETAILS - 2
26	E101	PARTIAL ELECTRICAL SITE PLAN
27	E201	BLOWER ROOM POWER AND CONTROL
28	E202	AERATED SOLIDS CONTACT TANKS POWER AND CONTROL PLAN
29	E401	ONE LINE DIAGRAM
30	E402	PANEL SCHEDULE
31	E403	CIRCUIT SCHEDULE
INSTRUMENTATION		
32	I001	LEGEND AND SYMBOLS
33	I101	IOC ELEVATION
34	I102	IOC POWER DISTRIBUTION
35	I103	IOC NETWORK DIAGRAM
36	I104	DIGITAL INPUT MODULE 1A
37	I105	DIGITAL INPUT MODULE 1B
38	I106	ANALOG INPUT MODULE 2A
39	I107	DIGITAL INPUT MODULE 2B
40	I108	ANALOG INPUT MODULE 1A
41	I109	ANALOG INPUT MODULE 1B
42	I110	ANALOG INPUT MODULE 1C
43	I111	ANALOG INPUT MODULE 2A
44	I112	ANALOG INPUT MODULE 2B
45	I113	ANALOG INPUT MODULE 2C
46	I114	ANALOG INPUT MODULE 3A
47	I115	ANALOG INPUT MODULE 3B
48	I116	ANALOG INPUT MODULE 3C
49	I117	ANALOG OUTPUT MODULE 1A
50	I118	ANALOG OUTPUT MODULE 1B

ONE INCH
AT FULL SIZE IF NOT ONE
INCH SCALE OTHERWISE


REVISION DATE BY APPROVED

PROJECT: COUNTY OF KAUAI
DIVISION OF WASTEWATER MANAGEMENT

**LIHUE AERATED SOLIDS CONTACT
TANK IMPROVEMENT**

INDEX OF DRAWINGS

DESIGNED BY: J. SCHWARTZLOW
DRAWN BY: Y. ANDA
CHECKED BY: B. BALL
SECTION: H&O
SECTION: H&O



THE WORK WAS PREPARED BY ME OR
UNDER MY CLOSE PERSONAL
SUPERVISION
Bruce J. Ball
PROFESSIONAL ENGINEER
LICENSE NO. 10306-C
STATE OF HAWAII
EXPIRES DATE OF THE LICENSE: 4/30/2026

TWK: 3-5-001.030

SHEET 2 OF 50

DRAWING 0001

LIHUE AERATED SOLIDS CONTACT TANK IMPROVEMENT

ABBREVIATIONS

A	AERATION	EMERGENCY	LCS	R	RADIUS	W	WATT, WIRE, WIDE
A AMP	AMPERE(S)	ELECTRICAL MANHOLE	LED	RAS	RETURN ACTIVATED SLUDGE	W	WASTE ACTIVATED SLUDGE
AC	ACCESS	ENCLOSURE/ENCLOSED	LF	RBD	READY TO BE DRAIN	WAS	WASTE WATER
ACMS	AMERICAN CONCRETE AND MONITORING SYSTEM	EXHAUSTION PULL BOX	LH	RCPT	READY TO BE PUMP	WG	WITH GROUND
ACK	ACKNOWLEDGE	EQUIPMENT	LWH	RDY	READY TO BE DRAIN	WN	WITHOUT
AF	FRAME AMPS	EMERGENCY STOP	LOR	REF	REFERENCE	WO	WITHOUT
AFB	ABOVE FINISH GROUND	ET CETERA	LP	REQD	REQUIRED	WP	WEATHERPROOF
AFS	ABOVE FINISH SURFACE	EXHAUST TIME METER	LTV	RECD	REQUIRED	WPT	WASTEWATER TREATMENT PLANT
AK	AMPS INTERRUPTING CAPACITY, SWMM	EAST	LVG	REGL	REINFORCING	X	TRANSFORMER
AL	ALUMINUM OR ALUM	EAST WAY	LR	REMO	REVERSE	XP	EXPLOSION PROOF
AM	AUTOMAN	FOR BID PURPOSES	LR	RMS	ROOT MEAN SQUARE	Z	IMPEDANCE
ARCH	ARCHITECTURAL	F	M	RNG	RUNNING JOE/FORWARD		
AS	ASBESTOS	FBR	MI	RNG	RUNNING JOE/FORWARD		
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	FBS	VI	RNG	RUNNING JOE/FORWARD		
AT	AMPERE TRIP	FBS	WA	RNG	RUNNING JOE/FORWARD		
ATS	AUTOMATIC TRANSFER SWITCH	FLA	MAX	RNG	RUNNING JOE/FORWARD		
AUT	AUTOMATIC	FLEX	MBS	RNG	RUNNING JOE/FORWARD		
AUX	AUXILIARY	FLO	MCC	RNG	RUNNING JOE/FORWARD		
AWS	AMERICAN WELDING SOCIETY	FLO OPEN	MCH	RNG	RUNNING JOE/FORWARD		
		FWD	MFR	RNG	RUNNING JOE/FORWARD		
		FWD	MH	RNG	RUNNING JOE/FORWARD		
		FWD	MC	RNG	RUNNING JOE/FORWARD		
		FWD	MS	RNG	RUNNING JOE/FORWARD		
		FWD	MIS	RNG	RUNNING JOE/FORWARD		
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		FWD	NF	RNG	RUNNING JOE/FORWARD		
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		FWD	NO	RNG	RUNNING JOE/FORWARD		
		FWD	NP	RNG	RUNNING JOE/FORWARD		
		FWD	NPS	RNG	RUNNING JOE/FORWARD		
		FWD	NS	RNG	RUNNING JOE/FORWARD		
		FWD	NTS	RNG	RUNNING JOE/FORWARD		
		FWD	NVA	RNG	RUNNING JOE/FORWARD		
		FWD	O	RNG	RUNNING JOE/FORWARD		
		FWD	OC	RNG	RUNNING JOE/FORWARD		
		FWD	OD	RNG	RUNNING JOE/FORWARD		
		FWD	OH	RNG	RUNNING JOE/FORWARD		
		FWD	OIS	RNG	RUNNING JOE/FORWARD		
		FWD	OP	RNG	RUNNING JOE/FORWARD		
		FWD	OS/OLP	RNG	RUNNING JOE/FORWARD		
		FWD	OT	RNG	RUNNING JOE/FORWARD		
		FWD	OVS	RNG	RUNNING JOE/FORWARD		
		FWD	P	RNG	RUNNING JOE/FORWARD		
		FWD	PA	RNG	RUNNING JOE/FORWARD		
		FWD	PAL	RNG	RUNNING JOE/FORWARD		
		FWD	PAN	RNG	RUNNING JOE/FORWARD		
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		FWD	PT	RNG	RUNNING JOE/FORWARD		
		FWD	PTC	RNG	RUNNING JOE/FORWARD		
		FWD	PWR	RNG	RUNNING JOE/FORWARD		
		FWD	Q	RNG	RUNNING JOE/FORWARD		
		FWD	QSB	RNG	RUNNING JOE/FORWARD		

AT FULL SIZE IF NOT ONE INCH SCALE (AS SHOWN)

THE WORK WAS PREPARED BY ME OR UNDER MY CLOSE PERSONAL SUPERVISION
 Bruce J. Ball
 LICENSED PROFESSIONAL ENGINEER
 No. 10000
 STATE OF HAWAII

DESIGNED BY: J.SCHWARTZLOW
 DRAWN BY: YASUDA
 APPROVED BY: YASUDA
 SECTION: 44-00
 SHEET: 3 OF 50

PROJECT: COUNTY OF KAUAI
 DEPARTMENT OF PUBLIC WORKS
 DIVISION OF WASTEWATER MANAGEMENT

LIHUE AERATED SOLIDS CONTACT TANK IMPROVEMENT

ABBREVIATIONS

DATE: 4/30/2026

DATE: 4/30/2026

DATE: 4/30/2026

GENERAL CONSTRUCTION NOTES

1. THE CONTRACTOR SHALL PERFORM APPLICABLE CONSTRUCTION WORK IN ACCORDANCE WITH THE STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION DATED SEPTEMBER 1984 AS AMENDED, THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION DATED SEPTEMBER 1986 OF THE DEPARTMENT OF PUBLIC WORKS, COUNTY OF KAUAI, AS AMENDED, AND THE HAWAII STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND PUBLIC WORKS CONSTRUCTION DATED SEPTEMBER 1986 OF THE DEPARTMENT OF TRANSPORTATION, HIGHWAYS DIVISION, STATE OF HAWAII, AS AMENDED.
2. THE UNDERGROUND UTILITY LINES AND/OR STRUCTURES KNOWN TO EXIST BY THE ENGINEER FROM HISHER SEARCH OF RECORDS ARE INDICATED ON THE PLANS, UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTHS OF THE UNDERGROUND UTILITY LINES AND/OR STRUCTURES BY THE LOCATION AND DEPTHS OF THE UNDERGROUND UTILITY LINES AND/OR STRUCTURES AND BY THE LOCATION AND DEPTHS OF THE UNDERGROUND UTILITY STRUCTURES. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTHS OF THE UNDERGROUND UTILITY STRUCTURES AT ALL TIMES DURING CONSTRUCTION, ANY DAMAGE TO THEM SHALL BE REPAIRED AND PAID FOR BY THE CONTRACTOR.
3. PRIOR TO THE START OF WORK, THE CONTRACTOR SHALL NOTIFY ALL APPLICABLE AGENCIES AND AGENCIES WITH JURISDICTION OVER THE PROJECT AREA, THE COUNTY OF KAUAI, THAT THE PROJECT WILL BE CONDUCTED IN THE PROJECT AREA, THE CONTRACTOR SHALL BE HELD RESPONSIBLE AND SHALL PAY FOR ALL NECESSARY PERMITS, MAINTENANCE AND PROTECTION OF EXISTING UTILITIES AND STRUCTURES.
4. EXISTING CONDITIONS AND DIMENSIONS SHOWN ON THE PLANS ARE APPROXIMATE AND OBTAINED FROM RECORD DRAWINGS. PROSPECTIVE CONTRACTORS SHALL VISIT THE PROJECT AREA TO VERIFY THE EXISTING CONDITIONS AND DIMENSIONS. ANY DISCREPANCIES AND CONDITIONS BEFORE SUBMITTING BID, REASONABLE MODIFICATIONS TO INDICATED DIMENSIONS AND ARRANGEMENTS TO SUIT ACTUAL JOB CONDITIONS SHALL NOT CONSTITUTE BASIS FOR REQUESTING OF ADDITIONAL FUNDS FROM THE COUNTY.
5. PRIOR TO ORDERING MATERIALS AND EQUIPMENT, THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS, MATERIALS, SIZES, AND DIMENSIONS THAT AFFECT HIS WORK, NOTIFY THE OFFICER-IN-CHARGE OF ALL DISCREPANCIES IN WRITING PRIOR TO PROCUREMENT.
6. VERIFY AND CHECK ALL DIMENSIONS AND DETAILS SHOWN ON THE DRAWINGS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCY BETWEEN THE EXISTING CONDITION AS SHOWN ON THE DRAWINGS AND THE ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE ATTENTION OF THE OFFICER-IN-CHARGE FOR CLARIFICATION. CONTRACTOR SHALL NOT PROCEED WITH ANY FURTHER WORK UNTIL WRITTEN NOTIFICATION IS RECEIVED FROM THE OFFICER-IN-CHARGE. OTHERWISE THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY COSTS INVOLVED IN CORRECTION OF CONSTRUCTION COMPLETED DUE TO SUCH DISCREPANCIES.
7. ALL WORK CALLED FOR ON THE PLANS AND NOT ITEMIZED IN THE BID SCHEDULE AND ALL WORK NOT CALLED FOR BUT REQUIRED FOR THE CONSTRUCTION OF THIS PROJECT SHALL BE CONSIDERED INCIDENTAL AND INCLUDED IN THE CONTRACTOR'S BID PRICE.
8. THE CONTRACTOR SHALL RESTORE TO THEIR ORIGINAL OR BETTER CONDITION ALL IMPROVEMENTS DAMAGED AS A RESULT OF THE CONSTRUCTION, INCLUDING PAVEMENTS, EMBANKMENT, LANDSCAPING, STRUCTURES, UTILITIES, ETC., UNLESS PROVIDED FOR SPECIFICALLY IN THE PROPOSAL, DEMOLITION AND RESTORATION OF EXISTING ITEMS SHALL BE INCIDENTAL AND INCLUDED WITHIN THE CONTRACTOR'S BID PRICE.
9. PAYMENT FOR RESTORATION OF PAVEMENT AND OTHER CONCRETE STRUCTURES WILL NOT BE MADE DIRECTLY BUT SHALL BE INCLUDED IN THE CONTRACTOR'S BID PRICE IN THE VARIOUS ITEMS OF THE BID.
10. UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR WILL PREPARE AND CERTIFY A BID ITEMIZATION STATEMENT REPRESENTING ALL WORKS PERFORMED UNDER THE CONSTRUCTION PLANS. THE OWNERS LICENSED DESIGN ENGINEER WILL CERTIFY THAT ALL OF THE CHANGES SHOWN ON THE AS-BUILT DRAWINGS HAVE BEEN APPROVED BY THE DESIGN ENGINEER AND MEET MINIMUM STANDARDS IN ACCORDANCE WITH THE REQUIREMENTS OF THE ORIGINAL APPROVED CONSTRUCTION PLANS. THE DEPARTMENT OF PUBLIC WORKS WILL REVIEW THE AS-BUILT DRAWINGS AND APPROVE THEM PRIOR TO THE FINAL AS-BUILT PLANS PRIOR TO THE CERTIFICATION BY THE OWNER'S ENGINEER, INCLUDING BUT NOT LIMITED TO HAVING A LAND SURVEYOR LICENSED IN THE STATE OF HAWAII CONFIRM AND CERTIFY THE FINAL LOCATION AND ELEVATIONS.
11. NON-COMPLIANCE TO ANY OF THE CONTRACT REQUIREMENTS SHALL MEAN IMMEDIATE SUSPENSION OF ALL WORK, AND REMEDIAL WORK SHOULD COMMENCE IMMEDIATELY. ALL COSTS INCURRED AS A RESULT OF THE CONTRACTOR'S NON-COMPLIANCE SHALL BE BILLED TO THE CONTRACTOR.
12. THE CONTRACTOR SHALL OBSERVE AND COMPLY WITH ALL FEDERAL, STATE AND LOCAL LAWS, ORDINANCES, RULES, REGULATIONS, AND ORDERS, AND SHALL MAINTAIN THE HIGHEST QUALITY AND FOR WORKER PROTECTION. FURTHERMORE, VIOLATORS SHALL BE SUBJECT TO ADMINISTRATIVE, CIVIL AND/OR CRIMINAL PENALTIES.
13. ALL EXISTING UTILITIES, SERVICE LINES, SUPPLY LINES AND COMMUNICATION LINES SHALL BE PROTECTED AND PRESERVED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION OF EXISTING UTILITIES AND SHALL BE RESPONSIBLE FOR THE CONTRACTOR'S CONVENIENCE, INTERRUPTION OF SERVICE FACILITIES BE KEPT TO A MINIMUM AND SHALL BE DONE AT THE CONTRACTOR'S EXPENSE AND ONLY WITH THE APPROVAL OF THE OFFICER-IN-CHARGE.
14. THE CONTRACTOR SHALL SECURE ALL NECESSARY LICENSES, PERMITS, APPROVALS, AND CLEARANCES AND SHALL PAY ALL APPLICATIONS, LICENSES, PERMITS, AND INSPECTION FEES REQUIRED FOR THE WORK AND SHALL GIVE ALL NOTICES NECESSARY FOR AND INCIDENTAL TO THE PROPER AND LAWFUL EXECUTION OF THE WORK.

15. THE CONTRACTOR SHALL PROVIDE TEMPORARY SECURITY COVERS OVER ANY AND ALL OPENINGS CREATED AS A CONSEQUENCE OF THE PROJECT WORK. THE COVERINGS SHALL BE ADEQUATE TO PROTECT ALL NECESSARY EQUIPMENT FROM WEATHER. SECURITY COVERS SHALL BE PROVIDED WHENEVER THE CONTRACTOR'S WORK IS AWAY FROM THE PROJECT SITE AND/OR AT THE DIRECTION OF THE OFFICER-IN-CHARGE.
16. CONTRACTOR SHALL SUBMIT A CONSTRUCTION SCHEDULE, IDENTIFYING START AND FINISH OF EACH MAJOR TASK INCLUDING OUTAGES. THE WORK SHALL BE SEQUENCED TO MINIMIZE INTERRUPTION OF SERVICE. SUBMIT SCHEDULE TO THE OFFICER-IN-CHARGE PRIOR TO START OF WORK. OUTAGES SHALL BE APPROVED BY THE OFFICER-IN-CHARGE.
17. THE CONTRACTOR SHALL CONDUCT OPERATIONS SO AS TO OFFER THE LEAST POSSIBLE OBSTRUCTIONS AND INCONVENIENCE TO THE PLANT OPERATORS AND SHALL HAVE UNDER CONSTRUCTION NO GREATER LENGTH OR AMOUNT OF WORK THAT HE CAN EXECUTE PROPERLY WITH DUE REGARD TO THE RIGHTS OF THE PLANT OPERATORS.
18. THE CONTRACTOR SHALL HOLD A PRE-CONSTRUCTION MEETING WITH THE OFFICER-IN-CHARGE BEFORE COMMENCING ANY WORK.
19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OVERTIME AND/OR NIGHT WORK PAYMENTS FOR THE COUNTY'S START-UP AND INSPECTION PERSONNEL INCLUDING TRAVEL AND MEALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OVERTIME TO BE PERFORMED, OR DIRECTS THE CONTRACTOR TO WORK ADDITIONAL SHIFTS OR OVERTIME FOR COUNTY'S CONVENIENCE.
20. IF SYSTEM CONDITIONS REQUIRE NON-EMERGENCY NIGHTTIME WORK DURING THE BREEDING SEASON (OCTOBER THROUGH MARCH), USE OF LIGHTING SHALL BE RESTRICTED BETWEEN 9:00 P.M. TO 4:30 A.M. IF LIGHTING OF THE WORK AREAS REQUIRED IN SUCH SITUATION, ALL LIGHTS SHALL BE SHIELDED (MINIMUM LIGHT SPILL TOWARDS THE SKY) AND DIRECTED DOWNWARDS TO THE MAXIMUM EXTENT PRACTICABLE. MINIMUM REQUIREMENTS FOR LIGHTING BY FLASH LIGHT SHALL BE COMPLIED AND A NIGHT LIGHT SHALL BE PROVIDED BY THE CONTRACTOR FOR THE CONTRACTOR TO HANDLE ANY RETRIEVED DOWNED BIRDS OR NENE AND BY THE CONTRACTOR ON HOW TO HANDLE ANY RETRIEVED DOWNED BIRDS OR NENE AND SHALL HAVE APPROPRIATE EQUIPMENT AS APPROVED BY SAVE OUR SHEARWATERS (SOS) ON SITE TO HOLD AND TRANSPORT ANY RETRIEVED BIRDS OR NENE TO AN SOS FACILITY. THIS REQUIREMENT DOES NOT ALLOW LIGHTING AS MAY BE RESTRICTED BY OTHER GOVERNMENT AGENCIES.
21. PRIOR TO STARTING ANY EXCAVATION ACTIVITIES, THE CONTRACTOR SHALL CONTACT THE HAWAII ONE CALL CENTER AT 1-866-423-7287.
22. PRIOR TO INSTALLATION OF ANY NEW SEWER LINES, DRAIN LINES, MANHOLES, AND STRUCTURES THAT WILL BE TRANSFERRED TO THE COUNTY OR REQUIRED FOR THE SUBMISSION OF THE PROPERTY, THE CONTRACTOR SHALL HAVE ALL IMPROVEMENTS (MANS, PIPES, APPURTENANCES AND STRUCTURES) SURVEYED AND STAKED OUT BY A LICENSED PROFESSIONAL LAND SURVEYOR AND THE CONTRACTOR SHALL EXPOSE, VERIFY AND BACKFILL EXISTING UNDERGROUND UTILITIES AND STRUCTURES. THE CONTRACTOR SHALL PROVIDE THE SURVEYOR WITH ALL NECESSARY INFORMATION AND FIELD NOTES. THE CONTRACTOR SHALL PROVIDE THE SURVEYOR CUT SHEET AND PROBING INFORMATION TO THE PUBLIC WORKS ENGINEERING CONSTRUCTION ENGINEER FOR REVIEW AND APPROVAL BEFORE MOVING FORWARD WITH INSTALLATION VIA THE SUBMITTAL REVIEW PROCESS.
23. SHOULD HISTORIC SITES SUCH AS WALLS, PLATFORMS, PAVEMENTS OR MOUNDS, OR REMAINS SUCH AS ARTIFACTS BURIALS, CONCENTRATION OF SHELL OR CHARCOAL BE ENCOUNTERED DURING THE CONSTRUCTION ACTIVITIES, WORK SHALL CEASE IMMEDIATELY IN THE IMMEDIATE VICINITY OF THE FIND AND THE FIND SHALL BE PROTECTED FROM FURTHER DISTURBANCE. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE STATE HISTORIC PRESERVATION DIVISION (808-245-6169) WHICH WILL ASSESS THE SIGNIFICANCE OF THE FIND AND RECOMMEND AN APPROPRIATE MITIGATION MEASURE, IF NECESSARY.
24. PURSUANT TO CHAPTER 96 OF THE HAWAII REISED STATUTES, ALL CONTRACTORS SHALL ENSURE THAT THE PROJECT SITE IS NOT DISTURBED BY ANY UNNECESSARY OR UNLAWFULLY DISCOVERED DURING CONSTRUCTION. THE REMAINS SHALL NOT BE MOVED AND ANY ACTIVITY IN THE IMMEDIATE AREA THAT COULD DAMAGE THE REMAINS OR THE POTENTIAL HISTORIC SITE SHALL CEASE AND THE DEPARTMENT OF LAND AND NATURAL RESOURCES' HISTORIC PRESERVATION DIVISION (TELEPHONE: 808-245-6169). THE APPROPRIATE MEDICAL OFFICER, THE HAWAII POLICE CORONER, AND THE POLICE DEPARTMENT (TELEPHONE: 808-246-4400), SHALL BE CONTACTED.

ONE INCH
AT FULL SIZE IF NOT ONE
INCH SCALE (AS SHOWN)

THE WORK WAS PREPARED BY ME OR
UNDER MY CLOSE PERSONAL SUPERVISION
DATE: 4/30/2026
SIGNATURE: *George J. Ball*

PROJECT	COUNTY OF KAUAI DEPARTMENT OF PUBLIC WORKS DIVISION OF WASTE/SEWER MANAGEMENT
ITEM	LIHUE AERATED SOLIDS CONTACT TANK IMPROVEMENT
DESIGNED BY	J. SCHWARTZLOW
DRAWN BY	YANODA
APPROVED	
CHECKED BY	B. BALL
SECTION NO.	
REVISION NO.	
DATE	
REVISION	
DATE	
BRIEF	
BY	
APPROVED	

TMK-3-5-001-030

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LIHUE AERATED SOLIDS CONTACT TANK IMPROVEMENT

TEMPORARY CONTRACTOR OPERATIONS AND STAGING AREA NOTES

- COORDINATE AND CONFIRM LOCATION AND SIZE OF TEMPORARY CONTRACTOR OPERATIONS AND STAGING AREA (COSA) WITH OFFICER-IN-CHARGE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CLEANING AND REMOVAL OF ANY AND ALL SILT AND DEBRIS GENERATED BY CONTRACTOR WORK AND SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING UTILITIES, MANHOLES, DRAIN INLETS, ETC., AND ON PUBLIC AND PRIVATE ROADWAYS, THE CONTRACTOR AGREES TO REIMBURSE THE COUNTY FOR ALL COSTS EXPENDED IN PERFORMANCE OF THE ABOVE WORK IF REQUIRED OR ANY FINES IMPOSED BY THE CONTRACTOR.
- IN ACCORDANCE WITH THE HAWAII ADMINISTRATIVE RULES, TITLE 11, CHAPTER 58.1, "SOLID WASTE MANAGEMENT CONTROL," DEMOLITION AND CONSTRUCTION WASTE SHALL BE DISPOSED OF IN ACCORDANCE WITH THE REQUIREMENTS OF THE HAWAII DEPARTMENT OF HEALTH (DOH) AND THE HAWAII DEPARTMENT OF WATER SUPPLY AND WASTE MANAGEMENT. THE CONTRACTOR SHALL INFORM THE OFFICER-IN-CHARGE OF THE LOCATION(S) OF DISPOSAL SITE(S) FOR THE EXCESS MATERIAL AND COSA FOR THE PROJECT. THE DISPOSAL SITE SHALL COMPLY WITH REVISED ORDINANCES OF THE COUNTY. THE CONTRACTOR SHALL PAY FOR ALL DISPOSAL FEES. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT ROADS AND UTILITIES AND REGULARLY TRAVELED INTERFACES OF UNPAVED AREAS AND PAVEMENTS.
- THE CONTRACTOR SHALL MINIMIZE THE QUANTITY OF CONSTRUCTION MATERIAL STORED IN THE COSA.
- UPON COMPLETION OF THE PROJECT, THE EXCESS MATERIAL AT THE COSA SHALL BE REMOVED AND THE SITE SHALL BE RESTORED TO ITS ORIGINAL OR BETTER CONDITIONS.
- ELEVATED PLATFORMS MAY BE INSTALLED IN THE COSA FOR SOME MATERIALS SO THAT THEY ARE LOCATED ABOVE AND OUT OF STORM WATER RUNOFF.

DEMOLITION NOTES

- NO BLASTING SHALL BE PERMITTED ON THIS PROJECT.
- WHEN DEMOLITION IS ADJACENT TO EXISTING STRUCTURES OR FACILITIES THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPERLY SHORING AND BRACING THE EXCAVATION AND STABILIZING THE EXISTING GROUND TO RENDER IT SAFE AND SECURE FROM POSSIBLE SLIDES, CAVE-INS AND SETTLEMENT AND FOR PROPERLY SUPPORTING EXISTING STRUCTURES AND FACILITIES FROM DAMAGE.
- THE CONTRACTOR SHALL TAKE THE NECESSARY PRECAUTIONS TO PREVENT DAMAGE TO THE EXISTING WALLS, VAULTS, BUILDING UTILITIES AND STRUCTURES OUTSIDE OF THE LIMITS OF DEMOLITION, ANY DAMAGE TO THESE ITEMS SHALL BE REPAIRED TO EQUAL OR BETTER, THAN EXISTING CONDITIONS BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.

PUBLIC HEALTH, SAFETY AND CONVENIENCE NOTES

- THE CONTRACTOR SHALL OBSERVE AND COMPLY WITH ALL FEDERAL, STATE AND LOCAL LAWS REQUIRED FOR THE PROTECTION OF PUBLIC HEALTH, SAFETY AND ENVIRONMENTAL QUALITY.
- THE CONTRACTOR, AT HIS/HER OWN EXPENSE, SHALL KEEP THE PROJECT AREA AND SURROUNDING AREA FREE FROM DUST NUISANCE. THE WORK SHALL BE IN CONFORMANCE WITH THE AIR POLLUTION CONTROL STANDARDS AND REGULATIONS OF THE STATE DEPARTMENT OF HEALTH.
- THE CONTRACTOR SHALL PROVIDE, INSTALL AND MAINTAIN ALL NECESSARY SIGNAGE, LIGHTS, FLARES, BARRIQUES, MARKERS, CONES AND OTHER PROTECTIVE FACILITIES AND SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE PROTECTION, CONVENIENCE AND SAFETY OF THE PUBLIC.
- THE CONTRACTOR'S ATTENTION IS DIRECTED TO TITLE 11, ADMINISTRATIVE RULES, CHAPTER 58.1, HAWAII ADMINISTRATIVE RULES, "SOLID WASTE MANAGEMENT CONTROL," HAWAII COMMUNITY NOISE CONTROL. FOR KAUAI IN WHICH MAXIMUM ALLOWABLE NOISE LEVELS HAVE BEEN SET. IF THE CONSTRUCTION ACTIVITIES FOR THIS PROJECT WILL EXCEED THE ALLOWABLE NOISE LEVELS, THE CONTRACTOR WILL BE REQUIRED TO OBTAIN A PERMIT FROM THE DIRECTOR OF THE DEPARTMENT OF PUBLIC HEALTH. THE CONTRACTOR SHALL OBSERVE AND COMPLY WITH CHAPTER 46 AND TITLE 11, HAWAII ADMINISTRATIVE RULES, "SOLID WASTE MANAGEMENT CONTROL," AND THE PROCEDURES FOR OBTAINING A PERMIT FOR CONSTRUCTION ACTIVITIES.

ENVIRONMENTAL CONTROL NOTES

- THE GENERAL CONTRACTOR OF THE PROJECT SHALL OBTAIN NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT COVERAGE(S) FOR THE FOLLOWING:
 - STORM WATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES THAT DISTURB ONE (1) ACRE OR MORE, AND
 - DISCHARGES OF HYDROTASTING EFFLUENT, DEWATERING EFFLUENT, AND WELL DRILLING EFFLUENT TO STATE WATERS.
 IN ACCORDANCE WITH STATE LAW, ALL DISCHARGES RELATED TO PROJECT CONSTRUCTION OR OPERATIONS ARE REQUIRED TO COMPLY WITH STATE WATER QUALITY STANDARDS HAWAII ADMINISTRATIVE RULES, CHAPTER 14-54, BEST MANAGEMENT PRACTICES SHALL BE USED TO MINIMIZE OR PREVENT THE DISCHARGE OF SEDIMENT, DEBRIS, AND OTHER POLLUTANTS TO STATE WATERS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE NECESSARY WATER BRANCH AT THE HEALTH HAWAII GOV.HAR, THE HAWAII DEPARTMENT OF WATER SUPPLY AND WASTE MANAGEMENT, THE HAWAII DEPARTMENT OF HEALTH, CLEAN WATER DEVELOPER/CONTRACTOR IS RESPONSIBLE FOR OBTAINING OTHER FEDERAL, STATE, OR LOCAL AUTHORIZATIONS AS REQUIRED BY LAW.
- IN ACCORDANCE WITH CHAPTER 14-61, AIR POLLUTION CONTROL, TITLE 11, HAWAII ADMINISTRATIVE RULES, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT EFFECTIVE DUST CONTROL MEASURES ARE PROVIDED TO MINIMIZE OR PREVENT ANY VISIBLE DUST EMISSION CAUSED BY THE CONSTRUCTION WORK FROM IMPACTING THE SURROUNDING AREAS INCLUDING THE OFF-SITE ROADWAYS USED TO ENTER/EXIT THE PROJECT SITE.
- IN ACCORDANCE WITH CHAPTER 14-58, SOLID WASTE MANAGEMENT CONTROL, TITLE 11, HAR, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT THE DEMOLITION WASTE AND CONSTRUCTION WASTE, GENERATED BY THE PROJECT ARE DISPOSED OF IN A MANNER OR AT A SITE APPROVED BY THE STATE DEPARTMENT OF HEALTH. DISPOSAL OF ANY OF THESE WASTES BY BURNING IS PROHIBITED.
- BMPs SHALL BE EMPLOYED AT ALL TIMES TO THE MAXIMUM EXTENT PRACTICABLE TO PREVENT DAMAGE BY SEDIMENTATION, EROSION OR DUST TO STREAMS, WATERCOURSES, NATURAL AREAS, AND THE PROPERTY OF OTHERS.

A B C D E F G

TMC-3-5-007.030

DRAWING CODE

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EXP. DATE OF THE DRAWING

DATE

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APPROVED

PROJECT

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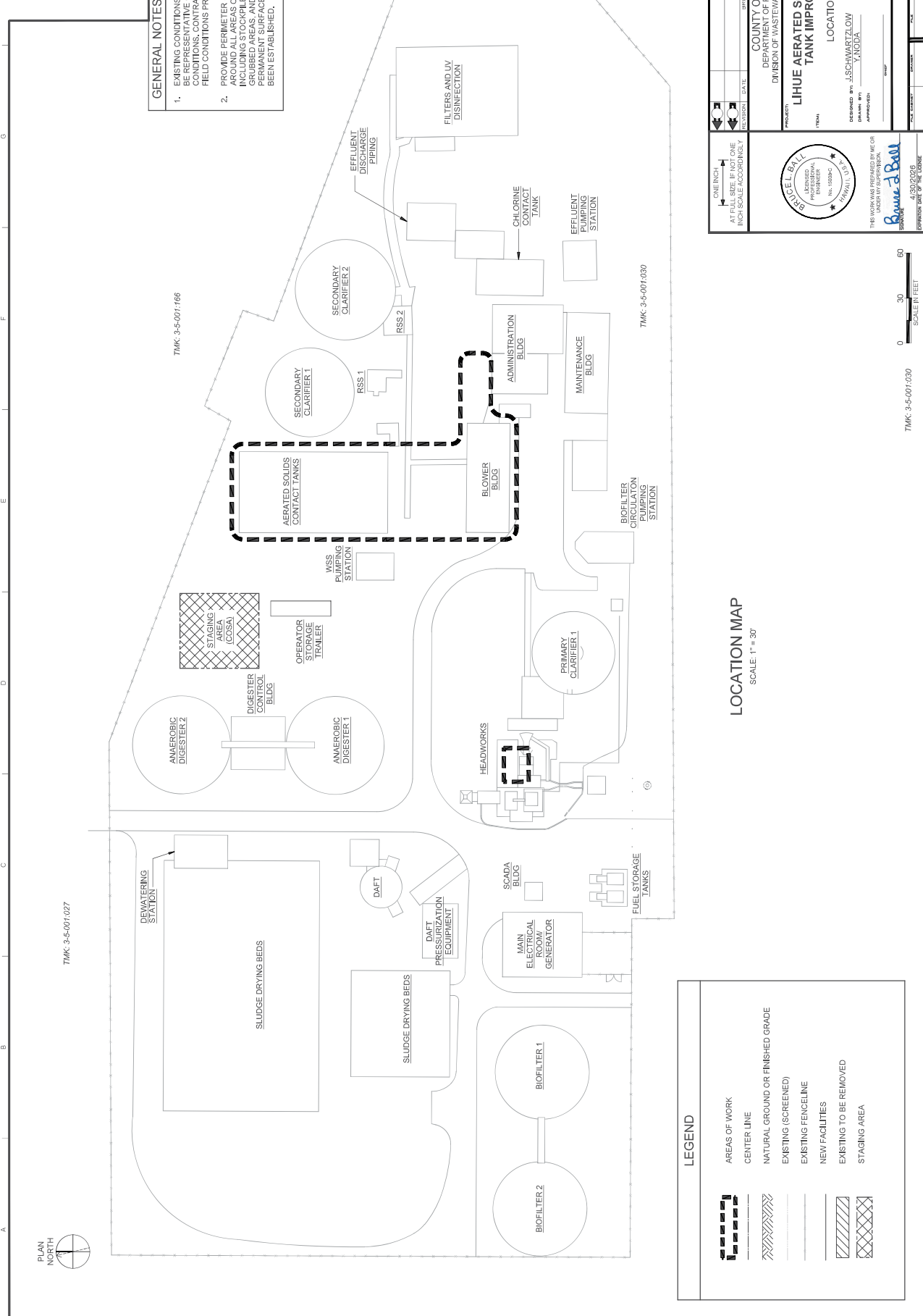
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THE WORK WAS PREPARED BY ME OR
UNDER MY CLOSE PERSONAL SUPERVISION
DATE: 4/30/2025
BRUCE J. BALL

PROJECT: COUNTY OF KAUAI
DIVISION OF WASTE WATER MANAGEMENT
LIHUE AERATED SOLIDS CONTACT TANK IMPROVEMENT
CONSTRUCTION NOTES

DESIGNED BY: J. SCHWARTZLOW
DRAWN BY: Y. ANDA
CHECKED BY: B. BALL
SECTION: 14-40
SECTION: 14-40

DATE: _____
BY: _____
APPROVED: _____



GENERAL NOTES:

- EXISTING CONDITIONS SHOWN MAY OR MAY NOT BE REPRESENTATIVE OF ACTUAL FIELD CONDITIONS. VERIFY ALL FIELD CONDITIONS PRIOR TO START OF WORK.
- PROVIDE PERIMETER SEDIMENT CONTROL BMPs AROUND ALL AREAS OF ACTIVE CONSTRUCTION, INCLUDING ALL PERIMETER AREAS, UNPAVED DRIVEWAYS, GRUBBED AREAS, AND AREAS WHERE PERMANENT SURFACE RESTORATION HAS NOT BEEN ESTABLISHED.

AT FULL SIZE IF NOT ONE INCH SCALE APPROXIMATE

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DATE: _____ BY: APPROVED: _____

PROJECT: COUNTY OF KAUAI
DIVISION OF WASTE WATER MANAGEMENT

PROJECT: LIHUE AERATED SOLIDS CONTACT TANK IMPROVEMENT

LOCATION MAP

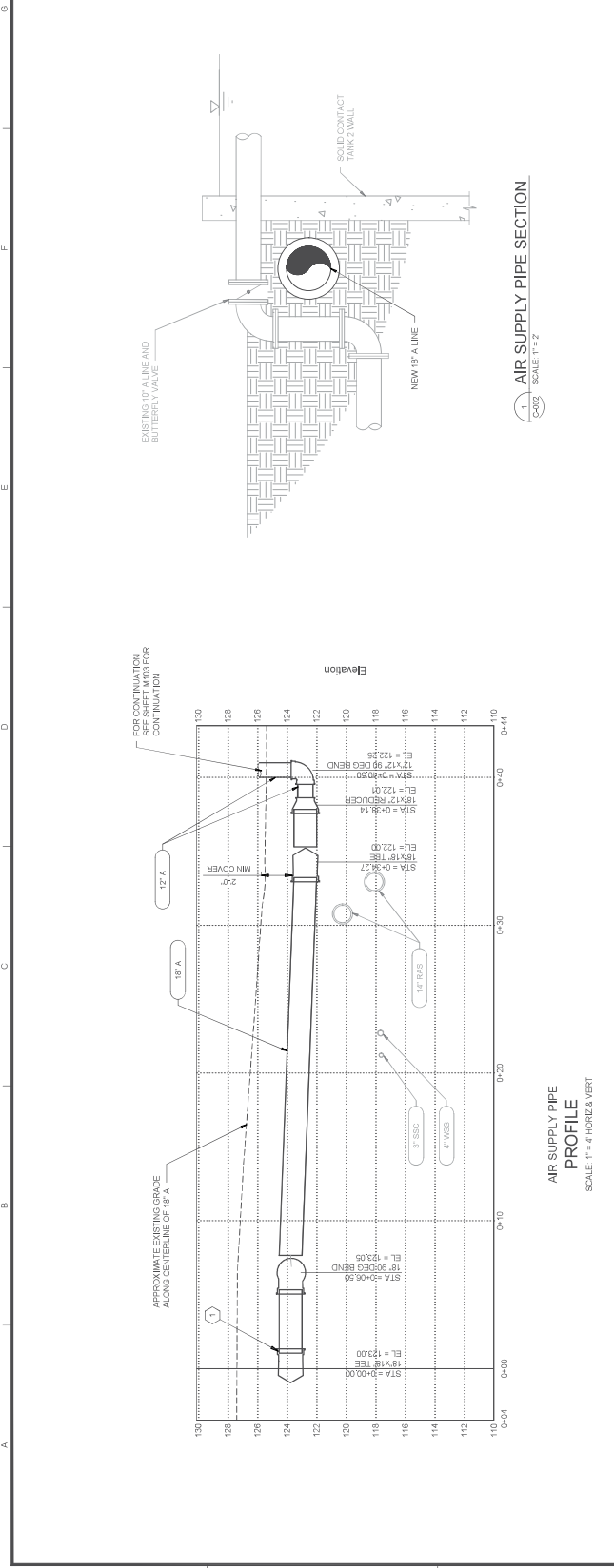
DESIGNED BY: J. SCHWARTZLOW
DRAWN BY: Y. LONDA
CHECKED BY: B. BALL
REVISION: 16-00
SECTION: 16-A-00
DATE: _____

THE WORK WAS PREPARED BY ME OR UNDER MY CLOSE PERSONAL SUPERVISION AND I AM A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF HAWAII, U.S.A.

 Bruce J. Ball
 LICENSED PROFESSIONAL ENGINEER
 No. 10303-C
 HAWAII, U.S.A.
 I AM A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF HAWAII, U.S.A.
 BRUCE J. BALL
 LICENSE NO. 10303-C
 EXPIRES DATE OF THE LICENSE: 4/30/2026

LOCATION MAP
SCALE: 1" = 30'

LEGEND

	AREAS OF WORK
	CENTER LINE
	NATURAL GROUND OR FINISHED GRADE
	EXISTING (SCREENED)
	EXISTING FENCELINE
	NEW FACILITIES
	EXISTING TO BE REMOVED
	STAGING AREA



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AT FULL SIZE IF NOT ONE INCH SCALE APPROXIMATE

PROJECT: COUNTY OF KAUAI
DEPARTMENT OF PUBLIC WORKS
DIVISION OF WASTE WATER MANAGEMENT

PROJECT: LIHUE AERATED SOLIDS CONTACT TANK IMPROVEMENT

ITEM: AIR SUPPLY PIPE PROFILE

DESIGNED BY: J. BELL
DRAWN BY: R. SELLONA
CHECKED BY: []
APPROVED: []

DATE: 4/30/2024

THIS WORK WAS PREPARED BY ME OR UNDER MY CLOSE PERSONAL SUPERVISION AND I AM A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF HAWAII. LICENSE NO. 10000-CC

Richard Sello

DATE: 4/30/2024

PREPARED DATE OF THE DRAWING



DRAWING 0003

SHEET 9 OF 50

DRAWING 0003

SHEET 9 OF 50

DRAWING 0003

SHEET 9 OF 50

DRAWING 0003

SHEET 9 OF 50

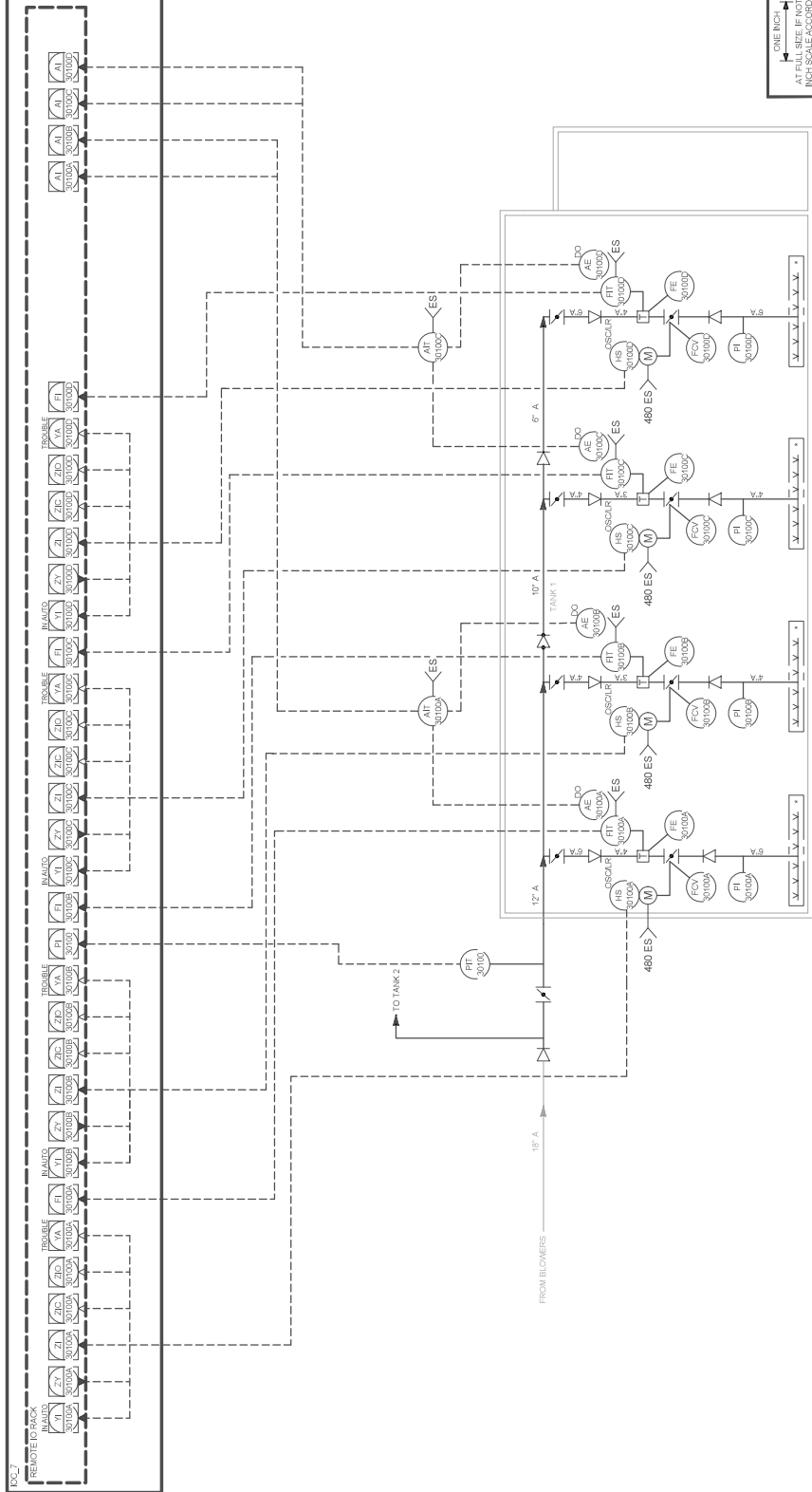
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SHEET 9 OF 50

DRAWING 0003

SHEET 9 OF 50

A B C D E F G



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INCH SCALE ACCORDANCE

REVISION DATE BY APPROVED

PROJECT: COUNTY OF KAUAI
DIVISION OF WASTEWATER MANAGEMENT

LIHUE AERATED SOLIDS CONTACT
TANK IMPROVEMENT

ITEM: AERATED SOLIDS CONTACT TANK - 1

DESIGNED BY: BLENZEL
DRAWN BY: J. MILLER
CHECKED BY: BLENZEL
SECTION: H-40
APPROVED: BLENZEL
SECTION: H-40

THE WORK WAS PERFORMED BY ME OR
UNDER MY SUPERVISION
Blenzel
4/30/2026
EXPIRES DATE OF THE LICENSE

PROJECT: COUNTY OF KAUAI
DIVISION OF WASTEWATER MANAGEMENT

LIHUE AERATED SOLIDS CONTACT
TANK IMPROVEMENT

ITEM: AERATED SOLIDS CONTACT TANK - 1

DESIGNED BY: BLENZEL
DRAWN BY: J. MILLER
CHECKED BY: BLENZEL
SECTION: H-40
APPROVED: BLENZEL
SECTION: H-40

THE WORK WAS PERFORMED BY ME OR
UNDER MY SUPERVISION
Blenzel
4/30/2026
EXPIRES DATE OF THE LICENSE

SHEET 15 OF 50
BLW 1 DRAWING P101

MISCELLANEOUS DEVICES

UTILITY STATION (LETTER, IF ANY, DESIGNATES TYPE)

FLOOR DRAIN

CLEANOUT, X-DESIGNATION IF ANY

IN LINE PRESSURE SENSOR

INSTRUMENT
 XX DENSITY ELEMENT
 DE FLOW ELEMENT
 FE LEVEL ELEMENT
 LE PRESSURE ELEMENT
 PE PRESSURE INDICATOR (GAUGE)
 TE TEMPERATURE ELEMENT
 TI TEMPERATURE INDICATOR

PIPING SYSTEMS

PIPING SYSTEMS ARE CALLED OUT BY SIZE FOLLOWED BY PIPING SYMBOL ENCLOSED AS SHOWN.

EXISTING PIPING 12" RSP

FUTURE PIPING 12" RSP

PIPE SIZE

PIPING SYSTEM (SEE PIPING SYMBOLS ON DWG P-002 AND SECTION 40.05.01 OF SPECIFICATIONS)

PIPING SYSTEM DESIGNATIONS FOR EXISTING PIPE INDICATE TYPE OF SERVICE ONLY AND DO NOT IMPLY PIPE MATERIALS USED. SEE DWG P-001 FOR EXISTING PIPING ABBREVIATIONS.

GENERAL NOTES

1. THIS DRAWING IS GENERAL IN NATURE. SOME DESIGNATIONS SHOWN HEREON MAY NOT BE USED ON THE CONTRACT DRAWINGS.
2. SEE DRAWING P-002 FOR EQUIPMENT PREFIXES AND PIPING SYSTEM IDENTIFICATION. EXISTING PIPING IS DESIGNATED BY SERVICE WITHOUT IMPLICATION AS TO PIPING MATERIAL.
3. EXISTING PIPING MATERIAL, IF KNOWN, IS INDICATED SEPARATELY, AND MAY NOT BE THE SAME MATERIAL AS SPECIFIED FOR NEW PIPING FOR THE SAME SERVICE.
4. SEE PIPING SPECIFICATION SHEETS (PIPE SPECS) IN SPECIFICATION SECTION 40.05.01 FOR PIPING SYSTEM REQUIREMENTS.
5. SYMBOLS ARE ARRANGED ON SPECIFIC DRAWINGS AND IN CATEGORIES FOR CONVENIENCE ONLY. SYMBOLS MAY BE USED ON ANY OF THE CONTRACT DRAWINGS.
6. THE MECHANICAL DRAWINGS REPRESENT THE ACTUAL PIPING AND EQUIPMENT LAYOUT AND LOCATIONS. IN CASE OF CONFLICT BETWEEN THE PROCESS INSTRUMENTATION AND MECHANICAL DRAWINGS, THE CONTRACTOR SHALL REFER TO THE MECHANICAL DRAWINGS.

MECHANICAL PIPE AND FITTINGS

2D SINGLE LINE

2D DOUBLE LINE

FLANGED JOINT

PLAIN OR GROOVED END MECHANICAL COUPLING

PUSH ON OR BALL AND SOCKET JOINT

MECHANICAL JOINT

WELDED JOINT

GROOVED END ADAPTER FLANGE X FLANGE

UNION

SLEEVE TYPE MECHANICAL COUPLING

RESTRAINED SLEEVE TYPE MECHANICAL COUPLING

FLANGED COUPLING ADAPTER

RESTRAINED FLANGED COUPLING ADAPTER OR DISMANTLING JOINT

ELASTOMER AND FABRIC EXPANSION JOINT

EXPANSION JOINT (SEE SPECS FOR TYPE)

FLEXIBLE METAL HOSE

EQUIPMENT CONNECTION FITTING

ELBOW UP

ELBOW DOWN

TEE UP

TEE DOWN

LATERAL UP

LATERAL DOWN

CENTRIC REDUCER

ECCENTRIC REDUCER

VALVES

SCHEMATIC OR 2D

VALVE TYPE

SCHEMATIC OR 2D

VALVE TYPE

SCHEMATIC OR 2D

VALVE TYPE

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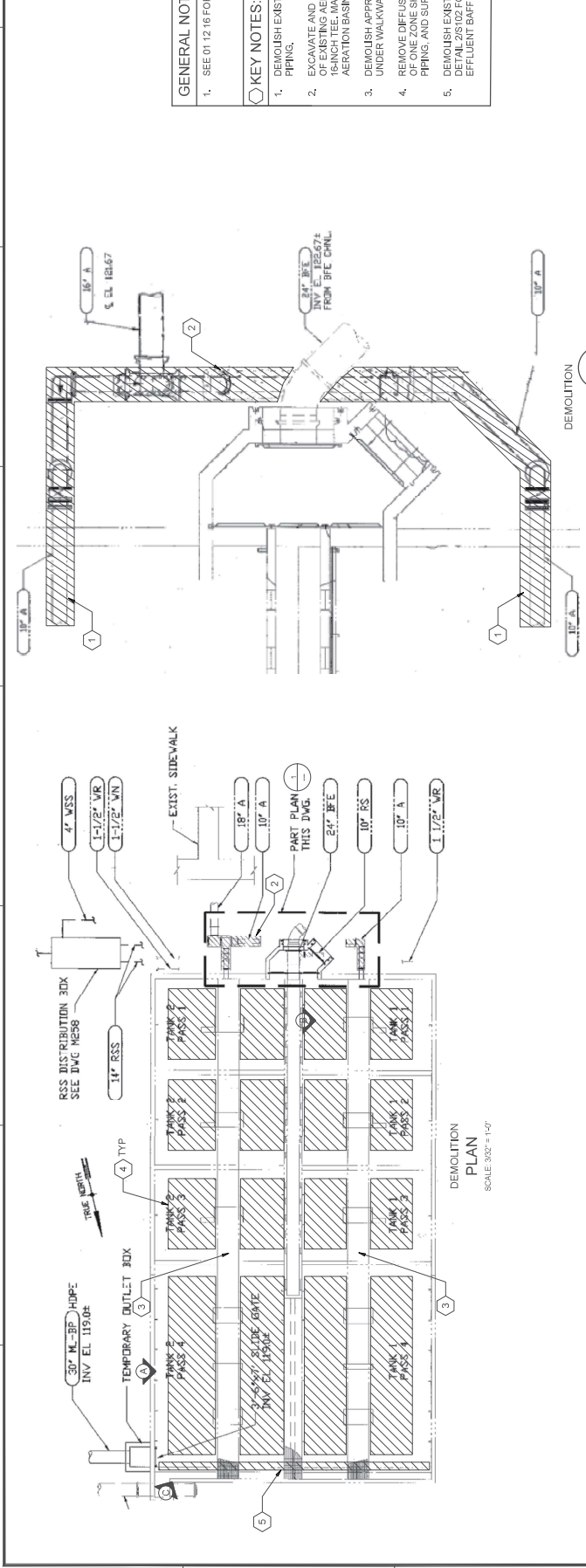
VALVE TYPE

SCHEMATIC OR 2D

VALVE TYPE

SCHEMATIC OR 2D

VALVE TYPE



DEMOLITION PLAN
SCALE: 3/32" = 1'-0"

DEMOLITION ENLARGED PLAN
SCALE: 1/8" = 1'-0"

- GENERAL NOTES:**
- SEE 01 12 16 FOR WORK SEQUENCE.
- KEY NOTES:**
- DEMOLISH EXISTING AERATION DIFFUSERS AND PIPING.
 - EXCAVATE AND DEMOLISH BELOW GRADE PIPING OF EXISTING AERATION SYSTEM TO EXISTING 16-INCH TEE. MAINTAIN OPERATION OF ONE AERATION BASIN DURING CONSTRUCTION.
 - DEMOLISH APPROXIMATELY 95% OF AIR PIPING UNDER WALKWAY AND INSTALL BLIND FLANGES.
 - REMOVE DIFFUSERS FROM 10 ZONES, DIFFUSERS OF ONE ZONE SHOWN. REMOVE ALL DIFFUSERS, PIPING, AND SUPPORTS.
 - DEMOLISH EXISTING EFFLUENT BAFFLE. SEE DETAIL 2/S102 FOR INSTALLATION OF NEW EFFLUENT BAFFLE.



PHOTO A
SCALE: NONE
M101

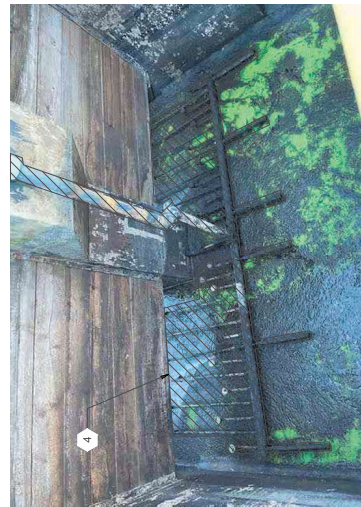


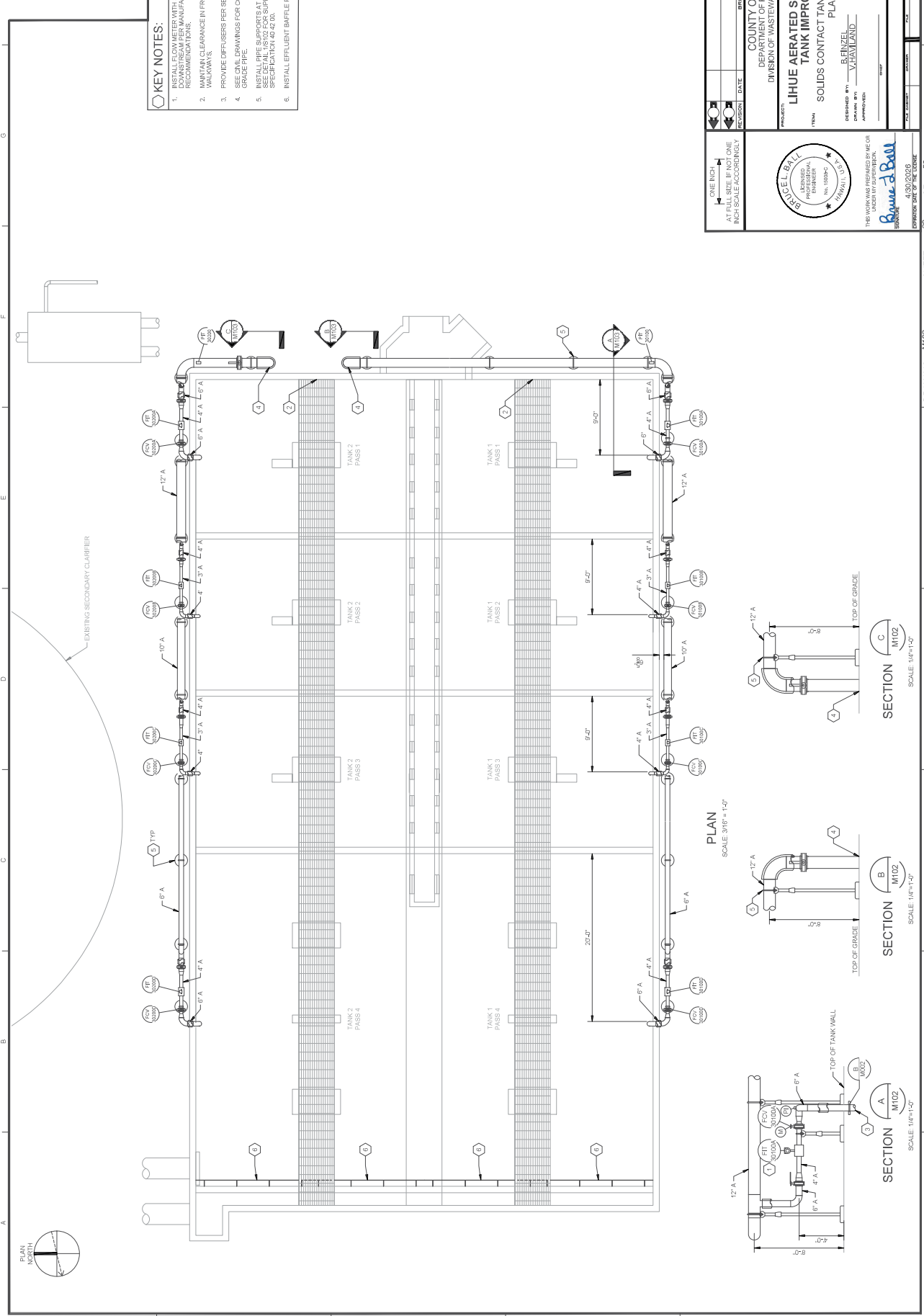
PHOTO B
SCALE: NONE
M101



PHOTO C
SCALE: NONE
M101

PROJECT	DATE	REVISION	DATE	BY	APPROVED
COUNTY OF KAUAI DEPARTMENT OF PUBLIC WORKS DIVISION OF WASTEWATER MANAGEMENT LIHUE AERATED SOLIDS CONTACT TANK IMPROVEMENT SOLIDS CONTACT TANKS DEMOLITION PLAN					
DESIGNED BY	BLANZEL	CHECKED BY		SECTION	16-00
DRAWN BY	YHREMLAND	REVISION	16-00	SCALE	

THE WORK WAS PREPARED BY ME OR UNDER MY CLOSE PERSONAL SUPERVISION AND I AM A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF HAWAII.
Bruce J. Ball
 LICENSE NO. 10002-C
 EXPIRES DATE OF THE LICENSE: 4/30/2026



- KEY NOTES:**
1. INSTALL ROWS WITH 30' UPSTREAM AND 2' D DOWNSTREAM PERMANENT WALKWAYS.
 2. MAINTAIN CLEARANCE IN FRONT OF EXISTING WALKWAYS.
 3. PROVIDE DIFFUSERS PER SECTION 46 51 33.
 4. SEE CIVIL DRAWINGS FOR CONNECTION TO BELOW GRADE PIPE.
 5. INSTALL PIPE SUPPORTS AT 10'-0" MAXIMUM SPACING. SUPPORTS SHALL BE 2" DIA. SUPPORT. INSULATE PIPE PER SPECIFICATION 42 42 00.
 6. INSTALL EFFLUENT BAFFLE PER DETAIL 25 02.

PROJECT: COUNTY OF KAUAI
DEPARTMENT OF PUBLIC WORKS
DIVISION OF WASTEWATER MANAGEMENT

ITEM: LIHUE AERATED SOLIDS CONTACT TANK IMPROVEMENT

DESIGNED BY: BENJEL
DRAWN BY: VERNILAND
CHECKED BY: []
APPROVED BY: []

SECTION: 16-A-0
SECTION: 16-A-0

DATE: []

REVISION: []

BY: []

APPROVED: []

THE WORK WAS PREPARED BY ME OR UNDER MY CLOSE PERSONAL SUPERVISION AND I AM A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF HAWAII.

Bruce J. Ball
LICENSED PROFESSIONAL ENGINEER
No. 10006-PC
STATE OF HAWAII

DATE: 4/30/2026
EXPIRES DATE OF THE LICENSE

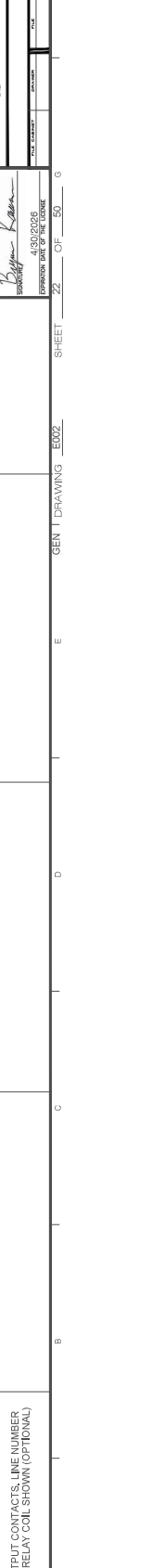
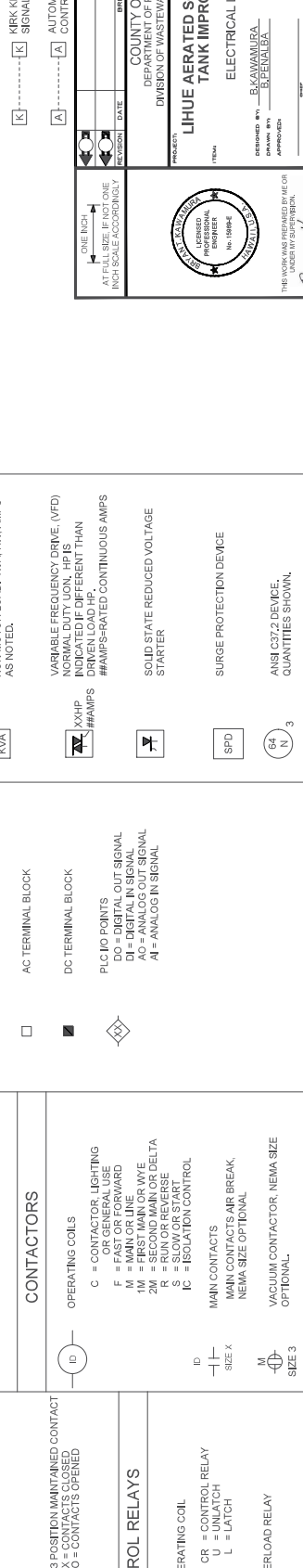
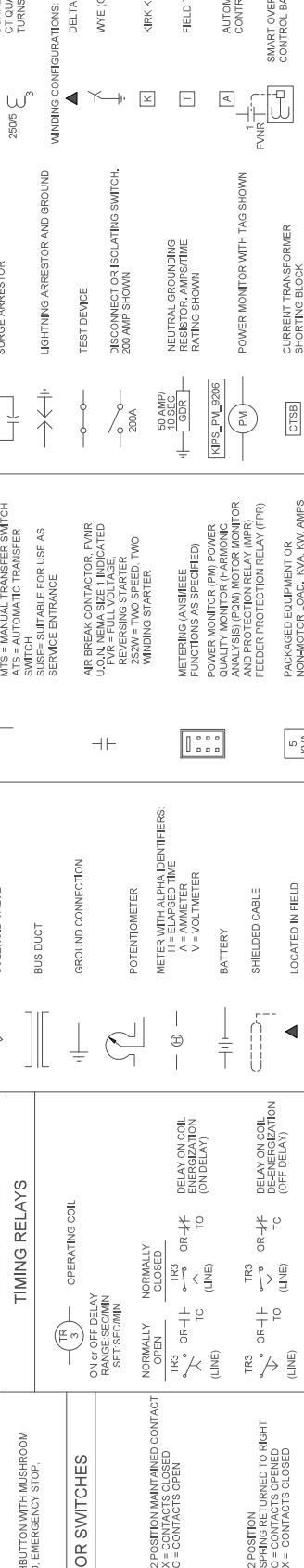
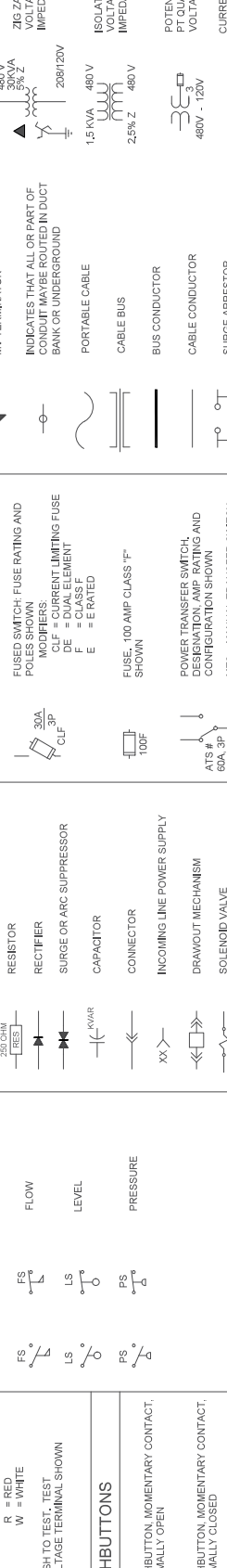
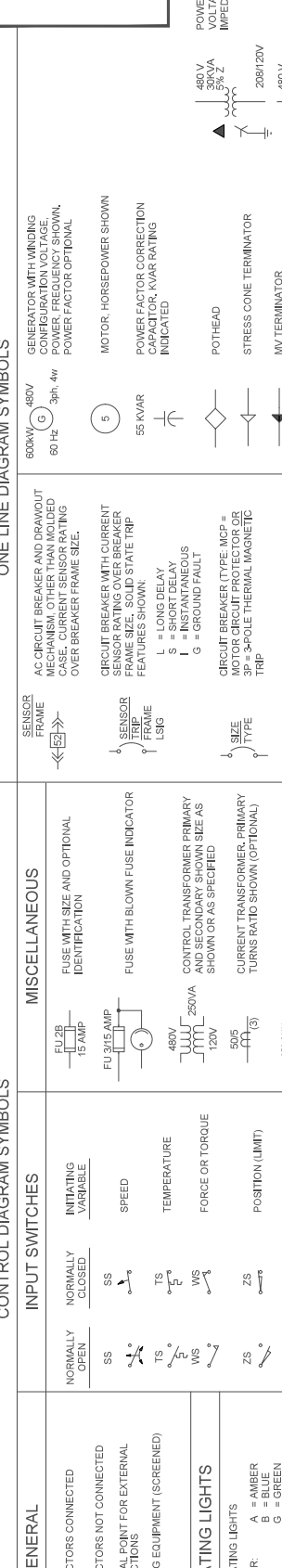
ONE INCH
AT FULL SIZE IF NOT ONE
INCH SCALE ACCORDANCE!

PROJECT: LIHUE AERATED SOLIDS CONTACT TANK IMPROVEMENT

SHEET: 20 OF 50

DRAWING: M102

CONTROL DIAGRAM SYMBOLS



LIHE AERATED SOLIDS CONTACT TANK IMPROVEMENT

PROJECT: LIHE AERATED SOLIDS CONTACT TANK IMPROVEMENT

DESIGNED BY: BAKAVAMURA, RUPENDRA
 CHECKED BY: BAKAVAMURA, RUPENDRA
 DRAWN BY: BAKAVAMURA, RUPENDRA
 SECTION NO.: 14-00

DATE: 11/06/2024

REVISION: 1

APPROVED BY: [Signature]

DATE: 11/06/2024

PROJECT NO.: 14-00

SHEET: 22 OF 50

GEN I DRAWING: E002

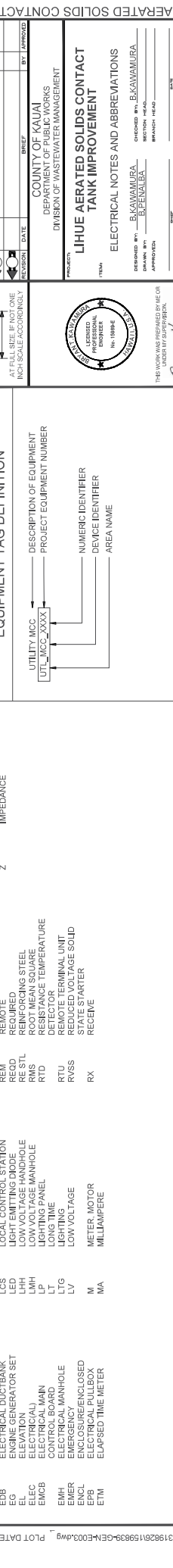
ABBREVIATIONS

1. ABBREVIATIONS SHOWN ON ELECTRICAL DRAWINGS ARE IN ACCORDANCE WITH ASME STANDARD Y14.38A	2. ABBREVIATIONS ON THIS SHEET ARE IN ADDITION TO THE ABBREVIATIONS DEFINED ON OTHER DRAWINGS.	3. ABBREVIATIONS HERE IN SHALL TAKE PRECEDENCE IN CASE OF CONFLICT.	4. ABBREVIATIONS ARE NOT EQUIPMENT NUMBER PREFIXES LISTED ON OTHER DRAWINGS.
A AMP AC ALTERNATING CURRENT ACAMS ACCESS CONTROL AND MONITORING SYSTEM AFF ABOVE FINISHED FLOOR AHAP AS-HIGH AS POSSIBLE AIC AMP-INTERRUPTING ALUMINUM AL ARCHITECTURAL AS SENSOR AMPERES ASYM ASYMMETRICAL ATS AMPERE TRIP AUTO AUTOMATIC AUX AUXILIARY AWG AMERICAN WIRE GAUGE BAT BATTERY BC BARE COPPER BKR BREAKER BLDG BUILDING BOT BOTTOM C CONDUCTOR, CONDUIT CAT. CATALOG CB CIRCUIT BREAKER CKT CIRCUIT CLR CLEAR CM CENTIMETERS CND CONDUIT CNTL CONTROL CONC CONCRETE CONC CONCRETE CPT CONTROL POWER CR TRANSFORMER CR CONTROL RELAY CSM COLLECTION SERVICE, AND MAINTENANCE CU CUPPER CU COPPER DB DUCT BANK, DIRECT DC DIRECT CURRENT, DATA CABLE DCU DISTRIBUTED CONTROL UNIT DET DETECTOR DOO DEOXYGENATED OXYGEN DIAG DIAGRAM DIS DISCONNECT DIS DISCONNECT SWITCH DWS DRAWING EA EACH EC EMPTY CONDUIT EG ELECTRICAL GROUNDING ECP EQUIPMENT CONTROL PANEL EDB ELECTRICAL DUCT BANK EG ENGINE GENERATOR SET ELEV ELEVATION ELEC ELECTRICAL EMCB ELECTRICAL MAIN CONTROL BOARD EMH ELECTRICAL MANHOLE EMER EMERGENCY EPB ELECTRICAL PULLBOX ETM ELAPSED TIME METER	EXPLOSION PROOF EQUIPMENT EACH WAY FOR BID PURPOSES FEEDER FLUORESCENT FLEX FLEXIBLE CONDUIT FAL OPEN FOT OPTIC FEET FTE FULL TIME EMPLOYEE FUT FUTURE GDR GROUNDING RESISTOR GEC GROUND ELECTRODE GF GROUND FAULT GFI GROUND FAULT INTERRUPTER GND GROUND GRS GALVANIZED RIGID STEEL HD HEAVY DUTY HGT HEIGHT HH HANDHOLE HHG HANDHOLE GROUP HMI HUMAN MACHINE INTERFACE HP HORSEPOWER HPS HIGH PRESSURE SODIUM HTR HEATER HV HIGH VOLTAGE HVAC HEATING, VENTILATION, AND AIR CONDITIONING HZ HERTZ (CYCLES PER SECOND) INTERCOM INM INTERMEDIATE METER IMC INTERMEDIATE METAL CONDUIT INTLK INTERLOCK INST INSTANTANEOUS IO INPUT-OUTPUT CABINET PB INSTRUMENT PULLBOX JB JUNCTION BOX KA KILO AMPERE KMIL 1000 CIRCULAR MIL KV KILOVOLT KVA KILOVOLT-AMPERE KWH KILOWATT-HOUR LAN LOCAL AREA NETWORK LCC LOCAL CONTROL CENTER LCP LOCAL CONTROL PANEL LCS LOCAL CONTROL STATION LED LIGHT EMITTING DIODE LHH LOW VOLTAGE HANDHOLE LPH LIGHTING PANEL LPT LIGHTING PANEL LT LONG TIME LTG LIGHTING LV LOW VOLTAGE M METER MA METER MOTOR MILLIAMPERE	MAXIMUM BYPASS SWITCH MOTOR CONTROL CENTER MINI MOTOR CENTER MECHANICAL MANUFACTURE(R) MANHOLE, METAL HALIDE MINIMUM INFORMATION STATION MISCELLANEOUS MILLIMETER MOTOR OPERATED VALVES MOTOR OPERATED VALVE MILLIVOLT, MEDIUM VOLTAGE CONTROL N/A NOT APPLICABLE N.C. NORMALLY CLOSED N.E.C. NATIONAL ELECTRICAL CODE N.E.U.T. NOT USED NIC NOT IN CONTRACT N.O. NORMALLY OPEN NO. NUMBER NOM NUMBER NPL NAMEPLATE NTS NOT TO SCALE ON CENTER OC OPERATOR CONTROL CENTER OCC OPERATOR CONTROL CENTER OIS OPERATOR INTERFACE OIS STATION OIL LIGHT OT OPERATOR WORKSTATION P POLE PHASE PBD PANEL BOARD PB PUSHBUTTON, PULLBOX PC POWER CONTROL PANEL PH PHASE PLC PROGRAMMABLE LOGIC CONTROLLER PML POWER METERING MODULE PML POWER PANEL PP PAIR PRI PRIMARY PULV POLYESTER VINYL CHLORIDE PWR POWER QSB QUARTZ STANDBY RCPT RECEPTACLE REF REFERENCE REM REMOTE REQD REQUIRE RES STL REINFORCING STEEL RST RESISTANCE TEMPERATURE DETECTOR RTD REMOTE TERMINAL UNIT RVSS REDUCED VOLTAGE SOLID STATE STARTER RX RECEIVE	SA SCADA SCR SILICON CONTROLLED RECTIFIER SD SMOKE DETECTOR SEL SIGNAL SHH SIGNAL HANDHOLE SHH SIGNAL HANDHOLE SPEC SPECIFICATION SPR SPRING PROTECTION DEVICE SSR SOLID STATE RELAY SST STAINLESS STEEL STP SHORT TIME SUB SUBSTATION SWBD SWITCHBOARD SWG SWITCHGEAR SYMM SYMMETRICAL SYSTEM TB TERMINAL BOX TEL TELEPHONE TEMP TEMPERATURE TFR TRANSFORMER TJ TRANSFORMER JUNCTION BOX TRD TRIM TV TELEVISION TVSS TRANSIENT VOLTAGE SURGE SUPPRESSOR TYP TYPICAL UG UNDERGROUND UNO UNLESS NOTED OTHERWISE UPS UNINTERRUPTIBLE POWER SUPPLY V VOLT VA VOLT-AMPERE VAR VOLT-AMPERE REACTIVE VCP VOLTAGE CONTROL PANEL VDC VOLTS DIRECT CURRENT VFD VARIABLE FREQUENCY DRIVE VND VENDOR W WATT W WIRE W M WIDE WTH WITH WO WITHOUT WGS WITH GROUND WP WEATHERPROOF XFMR TRANSFORMER XMTX TRANSMITTER XP EXPLOSION PROOF Z IMPEDANCE

GENERAL NOTES

- THE ELECTRICAL DRAWINGS USE THE ONE LINE DIAGRAMS, RISER DIAGRAMS, CIRCUIT SCHEDULE, AND PANEL SCHEDULES IN CONJUNCTION WITH SHOWING THE LOCATION OF THE ELECTRICAL INSTRUMENTATION SOURCES AND LOADS DEVICES SHOWN ON THE PLAN DRAWINGS TO BE RUN EXPOSED TO RACEWAY AND WIRING SYSTEM FOR EACH CIRCUIT. ALL INDOOR RACEWAY SHALL BE RUN EXPOSED AND ROUTED BY THE CONTRACTOR, UNLESS OTHERWISE NOTED. THE TYPE OF RACEWAY AND WIRE USED SHALL BE AS SPECIFIED.
- IF EQUIPMENT SUPPLIED BY MANUFACTURER HAS A LARGER LOAD THAN INDICATED ON THE SINGLE LINE DIAGRAM, THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOAD. THE ELECTRICAL EQUIPMENT SHALL BE SIZED AS REQUIRED, TO ACCOMMODATE THE HIGHER VALUE.
- IN AREAS WHERE THERE ARE OVERHEAD BRIDGE CRANES, HOISTS, ETC., OR WHERE EQUIPMENT IS LIFTED AND MOVED FOR MAINTENANCE OR REPLACEMENT, NO CONDUITS SHALL BE RUN OVERHEAD THAT WILL INTERFERE WITH THE OPERATION OF THE EQUIPMENT OR ACCESS TO EQUIPMENT.
- THE LOCATION OF THE CONTROL STATIONS SHOWN ON THE PLAN DRAWINGS ARE DIAGRAMMATIC ONLY. THE ACTUAL LOCATION SHALL BE COORDINATED IN THE FIELD WITH THE OFFICER-IN-CHARGE AND ADJACENT EQUIPMENT SUCH AS PIPING, PROCESS EQUIPMENT, ETC.
- THE CONTRACTOR SHALL COORDINATE WITH THE STRUCTURAL AND MECHANICAL DRAWINGS FOR CONDUIT STUBUP AND TERMINATION LOCATIONS.
- WHERE EXISTING CONDUIT IS SPECIFIED TO BE REUSED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING EXISTING WIRING, MANHOLE TESTING (CONCEALED/UNDERGROUND SECTIONS), AND TESTING OR THE CONTRACTOR OTHERWISE BELIEVES THAT CONDUIT IS NOT SUITABLE FOR REUSE. THE CONTRACTOR SHALL IMMEDIATELY INFORM THE OFFICER-IN-CHARGE.

EQUIPMENT TAG DEFINITION



AT FULL SIZE IF NOT ONE INCH SCALE (AS SHOWN)

ONE INCH

DATE: _____

REVISION: _____

BY: _____

THE WORK WAS PREPARED BY ME OR UNDER MY CLOSE PERSONAL SUPERVISION

Bryan Kama

DATE: 4/30/2026

EXPIRATION DATE OF THE LICENSE: _____

PROJECT: COUNTY OF KAUAI
DIVISION OF WASTEWATER MANAGEMENT

PROJECT: LIHUE AERATED SOLIDS CONTACT TANK IMPROVEMENT

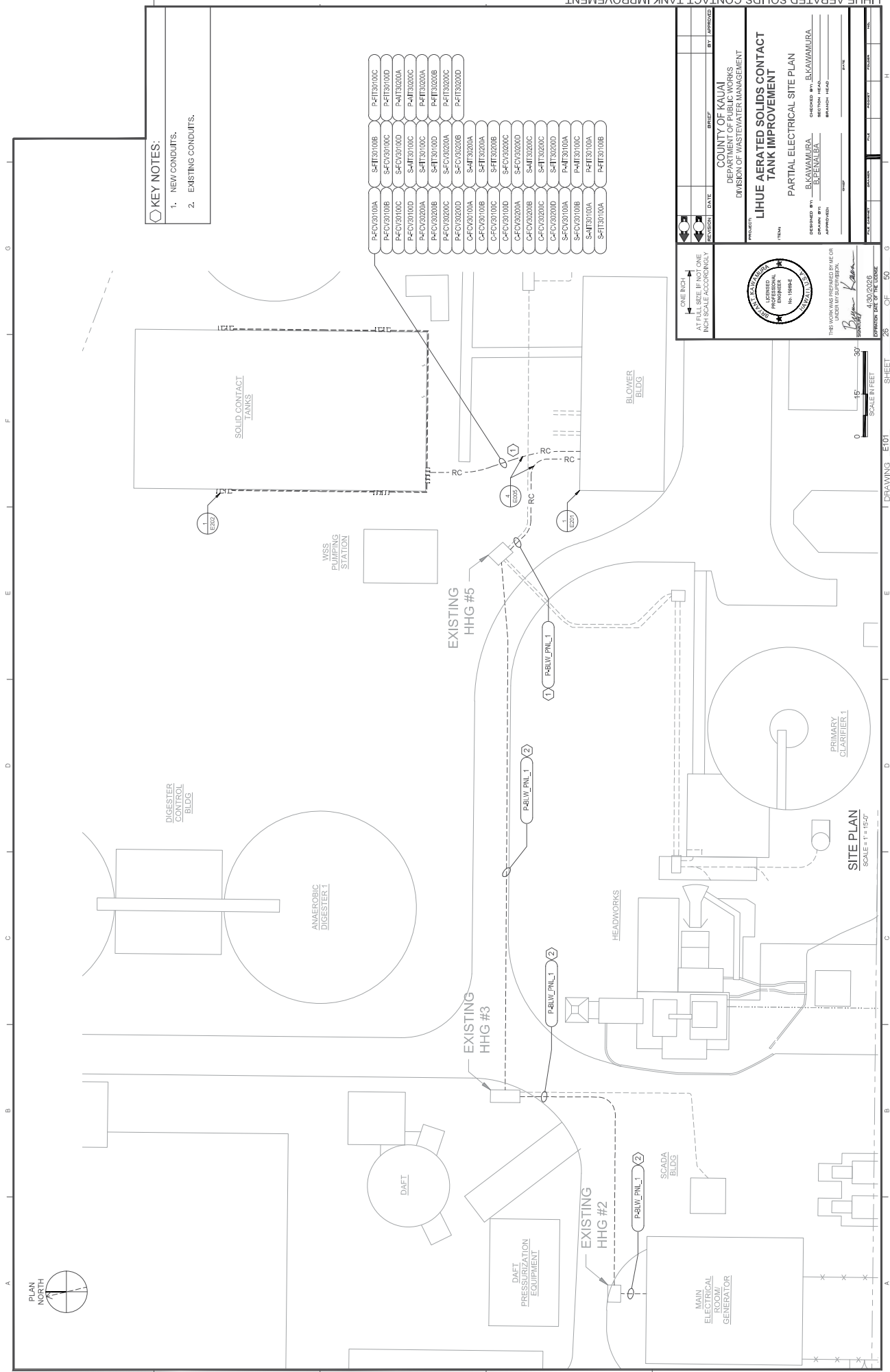
DESIGNED BY: BAKANAMURA
DRAWN BY: BAKANAMURA
SECTION: 44-00

APPROVED BY: BAKANAMURA
SECTION: 44-00

SHEET: 23

OF: 50

GEN I DRAWING: E003



COUNTY OF KAUAI
 DEPARTMENT OF PUBLIC WORKS
 DIVISION OF WASTEWATER MANAGEMENT
LIHE AERATED SOLIDS CONTACT TANK IMPROVEMENT
 PARTIAL ELECTRICAL SITE PLAN

DESIGNED BY: BAKAMAMURA
 DRAWN BY: BAKAMAMURA
 CHECKED BY: BAKAMAMURA
 APPROVED BY: BAKAMAMURA
 REVISION: _____ DATE: _____ BY: _____

LICENSED PROFESSIONAL ENGINEER
 No. 10994E
 STATE OF HAWAII

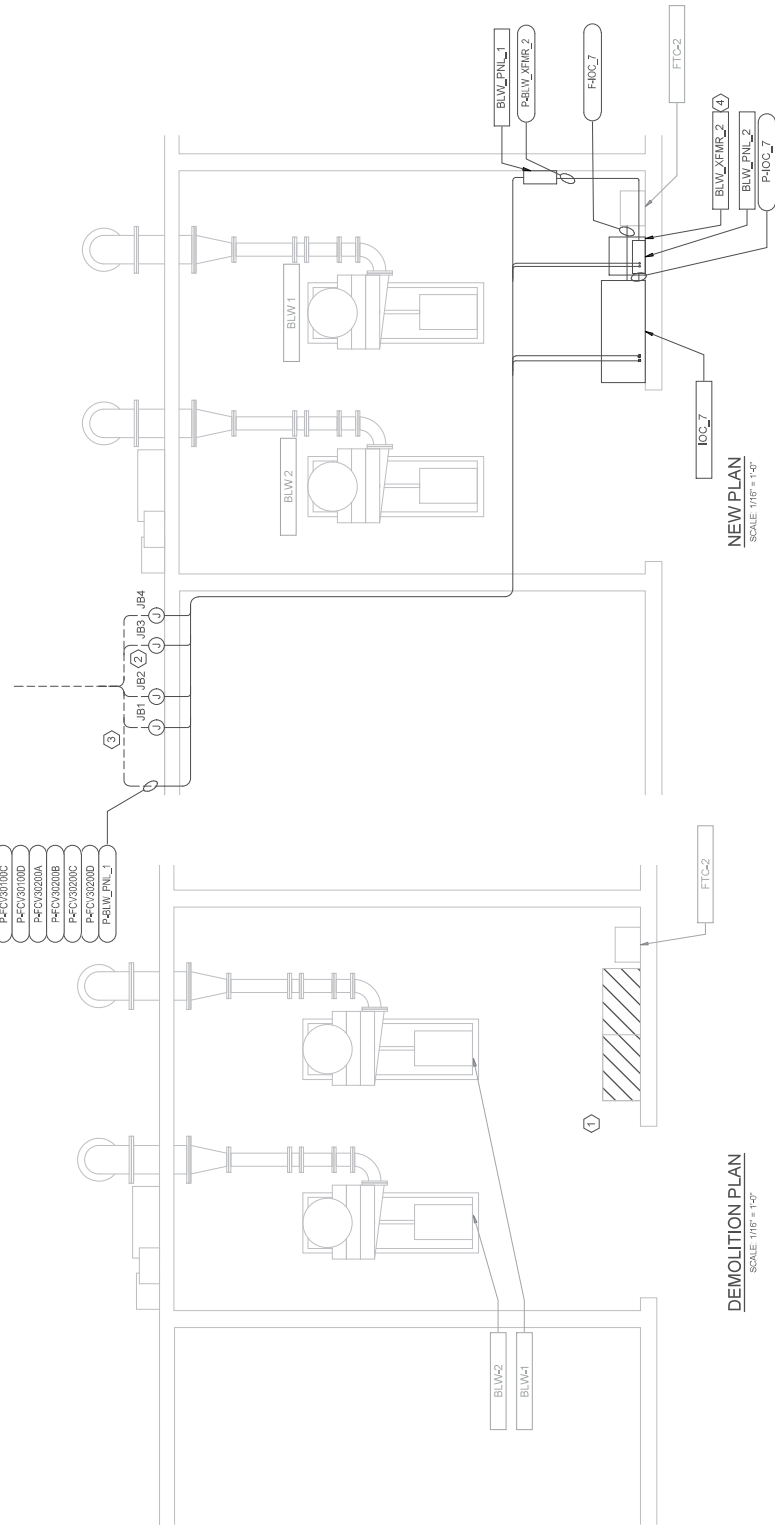
THE WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
 DATE: 4/30/2024
 EXPIRES DATE OF THE LICENSE: _____

SHEET 26 OF 50
 DRAWING E101
 SCALE 1" = 15'-0"
 SCALE 1" = 30'

A B C D E F G



- P-CV030100A
- P-CV030100B
- P-CV030100C
- P-CV030100D
- P-CV030200A
- P-CV030200B
- P-CV030200C
- P-CV030200D
- P-BLW_PNL_1



DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

NEW PLAN
SCALE: 1/8" = 1'-0"

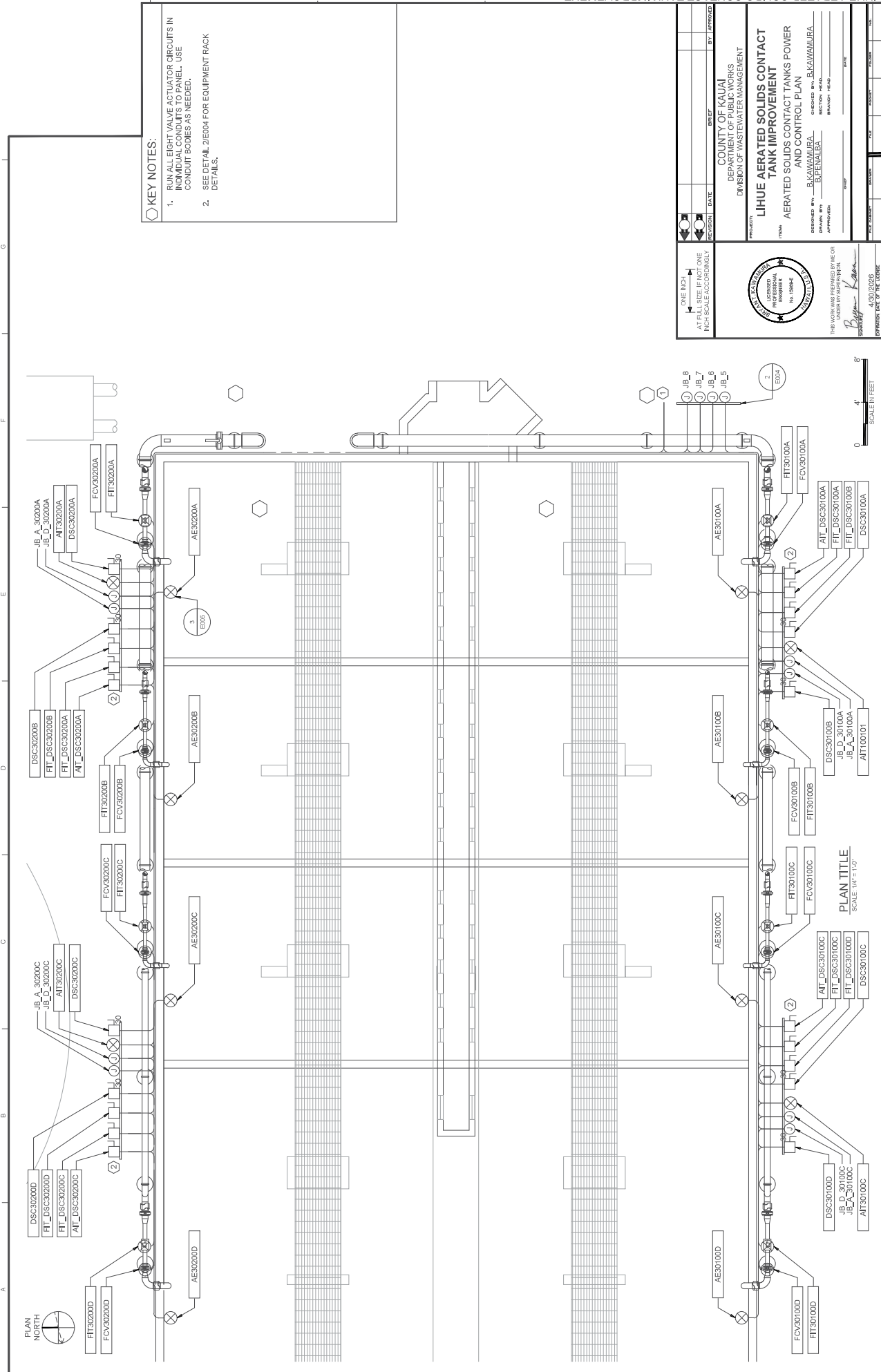
KEY NOTES:

1. NEW BLOWERS AND VFDS WILL BE INSTALLED BY OTHERS. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF OLD BLOWER STARTER ENCLOSURES.
2. INSTALL NEW JUNCTION BOXES ON THE OUTSIDE WALL.
 - JB1 - 120VAC BASIN ONE
 - JB2 - 120VAC BASIN TWO
 - JB3 - ANALOG CIRCUITS
 - JB4 - DIGITAL CIRCUITS
 JUNCTION BOXES SHOULD BE AT A MINIMUM 8' X 8' AND COMPLY WITH THE NEC.
3. RUN ALL 8 VALVE ACTUATOR CIRCUITS AND INCOMING POWER TO BLW_PNL_1 IN SEPARATE CONDUITS. CONTRACTOR SHALL PROVIDE CONDUIT BODIES OR BOXES AS REQUIRED TO COMPLY WITH THE NEC.
4. WALL MOUNT TRANSFORMER ABOVE BLW_PNL_2

REVISION	DATE	BRIEF	BY	APPROVED
COUNTY OF KAUAI DEPARTMENT OF PUBLIC WORKS DIVISION OF WASTEWATER MANAGEMENT				
LIHUE AERATED SOLIDS CONTACT TANK IMPROVEMENT				
BLOWER ROOM POWER AND CONTROL				
DESIGNED BY: <u> </u> DRAWN BY: <u> </u> APPROVED: <u> </u>			CHECKED BY: <u> </u> SECTION HEAD: <u> </u> REVISION: <u> </u> DATE: <u> </u>	
THE WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.				
SIGNATURE: <u> </u> DATE: <u> </u>				
EXPIRES DATE OF THE DRAWING: <u> </u>				

SHEET 27 OF 50

BLW 1 DRAWING E201



KEY NOTES:

1. RUN ALL EIGHT VALVE ACTUATOR CIRCUITS IN INDIVIDUAL CONDUITS TO PANEL. USE CONDUIT BODIES AS NEEDED.
2. SEE DETAIL 2/E004 FOR EQUIPMENT RACK DETAILS.

PROJECT: COUNTY OF KAUAI
DIVISION: DEPARTMENT OF PUBLIC WORKS
DIVISION OF WASTE WATER MANAGEMENT

ITEM: LIHUE AERATED SOLIDS CONTACT TANK IMPROVEMENT

DESIGNED BY: EKAVAMURA
DRAWN BY: EKAVAMURA
CHECKED BY: EKAVAMURA
SECTION NO.:
REVISION NO.:

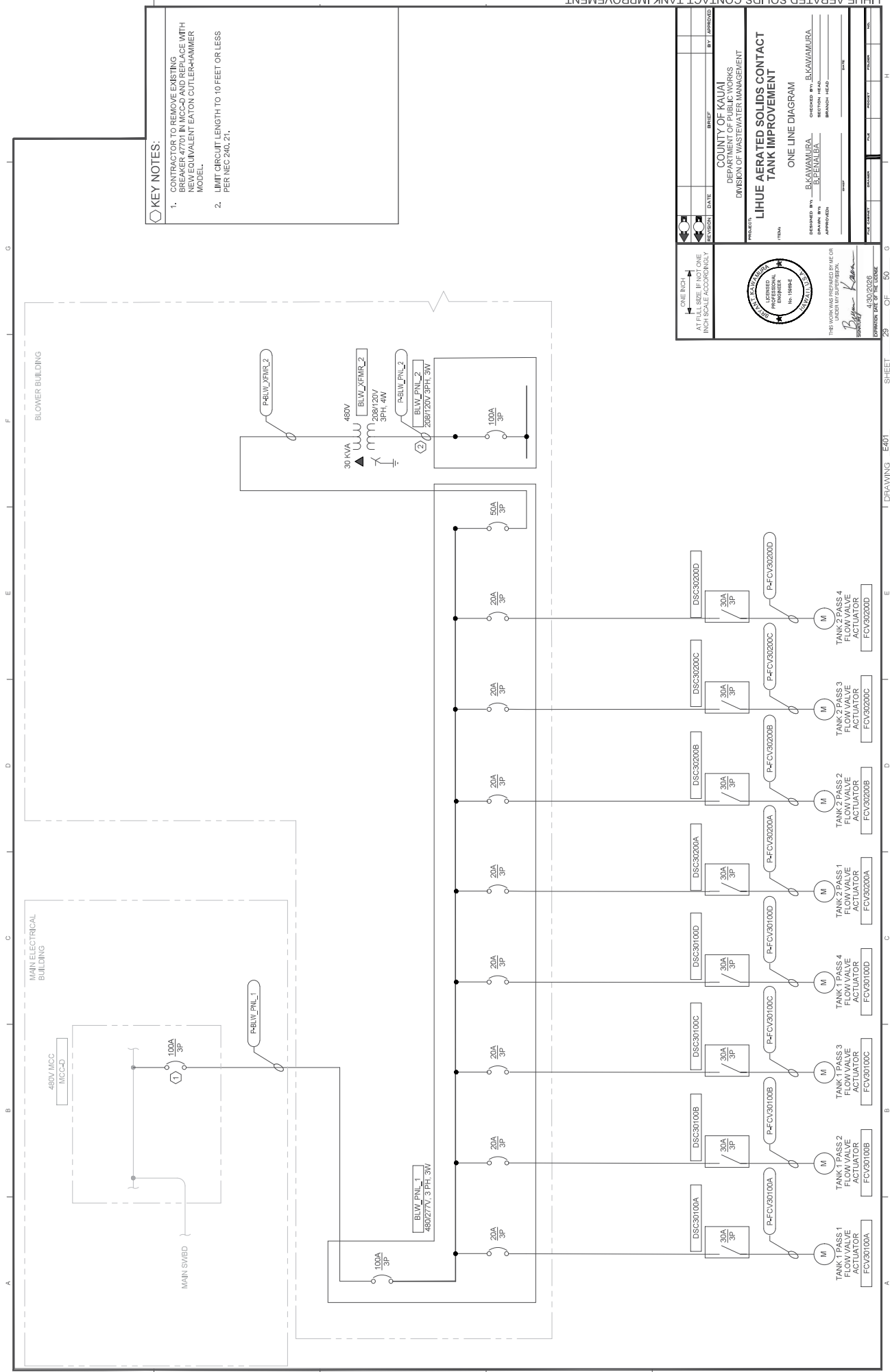
DATE: _____ BY: APPROVED

REVISION: _____ DATE: _____ BY: APPROVED

THE WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
DATE: 4/30/2026
SIGNATURE: *Ekavamura*
EXPIRES DATE OF THE LICENSE:

ONE INCH
AT FULL SIZE IF NOT ONE
INCH SCALE ACCORDING TO

SCALE: 1/4" = 1'-0"



KEY NOTES:

- CONTRACTOR TO REMOVE EXISTING BREAKER 47701 IN MCC-D AND REPLACE WITH NEW EQUIVALENT EATON CUTLER-HAMMER MODEL.
- LIMIT CIRCUIT LENGTH TO 10 FEET OR LESS PER NEC 240.21.

ONE INCH
AT FULL SIZE IF NOT ONE
INCH SCALE OTHERWISE

DATE: _____ BY: APPROVED

REVISION: _____

PROJECT: COUNTY OF KAUAI
DIVISION OF WASTEWATER MANAGEMENT

**LIHUE AERATED SOLIDS CONTACT
TANK IMPROVEMENT**

ONE LINE DIAGRAM

DESIGNED BY: BAKAMAMURA
DRAWN BY: BAKAMAMURA
CHECKED BY: BAKAMAMURA
SECTION HEAD:
BRANCH HEAD:

THE WORK WAS PREPARED BY ME OR
UNDER MY CLOSE PERSONAL
SUPERVISION AND I AM A
LICENSED PROFESSIONAL
ELECTRICAL ENGINEER
No. 19994-E

Bakamura Kama


DATE: 4/30/2026
EXPIRES DATE OF THE LICENSE

PROJECT: COUNTY OF KAUAI

DATE: _____ BY: APPROVED

CIRCUIT NAME	CABLE TYPE	CONDUCTOR SIZE	GRID SIZE	RW SIZE (INCH)	FROM	VIA	WIRE COUNT	RW SIZE (INCH)	VIA	WIRE COUNT	RW SIZE (INCH)	VIA	WIRE COUNT	TO	NOTES
P-BLW_PNL_1	XHHW-2	3#6	1#6	2	BLW_PNL_1									MCC-C BREAKER	
P-BLW_SFDR_2	XHHW-2	3#6	1#6	1	BLW_SFDR_2									BLW_PNL_1	
P-BLW_SFDR_1	XHHW-2	3#6	1#6	1	BLW_SFDR_1									BLW_PNL_2	
P-IOC_2	XHHW-2	2#10	1#10	2	IOC_2									BLW_PNL_2	
F-IOC_7	ETHERNET CAT5			2	IOC_7									FTC-2	
P-FCV30100A	XHHW-2	3#10	1#10	1	BLW_PNL_1									FCV30100A	
P-FCV30100B	XHHW-2	3#10	1#10	1	BLW_PNL_1									FCV30100B	
P-FCV30100C	XHHW-2	3#10	1#10	1	BLW_PNL_1									FCV30100C	
P-FCV30100D	XHHW-2	3#10	1#10	1	BLW_PNL_1									FCV30100D	
P-FCV30200A	XHHW-2	3#10	1#10	1	BLW_PNL_1									FCV30200A	
P-FCV30200B	XHHW-2	3#10	1#10	1	BLW_PNL_1									FCV30200B	
P-FCV30200C	XHHW-2	3#10	1#10	1	BLW_PNL_1									FCV30200C	
P-FCV30200D	XHHW-2	3#10	1#10	1	BLW_PNL_1									FCV30200D	
C-FCV30100A	XHHW-2	8#14	1#14	3/4	IB_D_1001D1		16#14	2	IB_B	64#14	2			FCV30100A	
C-FCV30100B	XHHW-2	8#14	1#14	3/4	IB_D_1001D1		16#14	1						FCV30100B	
C-FCV30100C	XHHW-2	8#14	1#14	3/4	IOC_7		16#14	1						FCV30100C	
C-FCV30100D	XHHW-2	8#14	1#14	3/4	IB_D_2001D1		16#14	1						FCV30100D	
C-FCV30200A	XHHW-2	8#14	1#14	3/4	IB_D_2001D1		16#14	1						FCV30200A	
C-FCV30200B	XHHW-2	8#14	1#14	3/4	IB_D_2001D1		16#14	1						FCV30200B	
C-FCV30200C	XHHW-2	8#14	1#14	3/4	IB_D_2001D1		16#14	1						FCV30200C	
C-FCV30200D	XHHW-2	8#14	1#14	3/4	IB_D_2001D1		16#14	1						FCV30200D	
S-FCV30100A	SIC	2-5TP	-	1										FCV30100A	
S-FCV30100B	SIC	2-5TP	-	1										FCV30100B	
S-AT30100A	SIC	1-5TP	-	3/4										AT30100A	
S-AT30100B	SIC	1-5TP	-	3/4										AT30100B	
S-AT30100C	SIC	1-5TP	-	3/4										AT30100C	
S-AT30100D	SIC	1-5TP	-	3/4										AT30100D	
S-FT30100A	SIC	1-5TP	-	3/4										FT30100A	
S-FT30100B	SIC	1-5TP	-	3/4										FT30100B	
S-FT30100C	SIC	1-5TP	-	3/4										FT30100C	
S-FT30100D	SIC	1-5TP	-	3/4										FT30100D	
S-FCV30200A	SIC	2-5TP	-	1										FCV30200A	
S-FCV30200B	SIC	2-5TP	-	1										FCV30200B	
S-AT30200A	SIC	1-5TP	-	3/4										AT30200A	
S-AT30200B	SIC	1-5TP	-	3/4										AT30200B	
S-AT30200C	SIC	1-5TP	-	3/4										AT30200C	
S-AT30200D	SIC	1-5TP	-	3/4										AT30200D	
S-FT30200A	SIC	2-5TP	-	1										FT30200A	
S-FT30200B	SIC	2-5TP	-	1										FT30200B	
S-FT30200C	SIC	2-5TP	-	1										FT30200C	
S-FT30200D	SIC	2-5TP	-	1										FT30200D	
P-AT30100A	XHHW-2	2#10	1#10	3/4										AT30100A	
P-AT30100B	XHHW-2	2#10	1#10	3/4										AT30100B	
P-FT30100A	XHHW-2	2#10	1#10	3/4										FT30100A	
P-FT30100B	XHHW-2	2#10	1#10	3/4										FT30100B	
P-AT30200A	XHHW-2	2#10	1#10	3/4										AT30200A	
P-AT30200B	XHHW-2	2#10	1#10	3/4										AT30200B	
P-AT30200C	XHHW-2	2#10	1#10	3/4										AT30200C	
P-FT30200A	XHHW-2	2#10	1#10	3/4										FT30200A	
P-FT30200B	XHHW-2	2#10	1#10	3/4										FT30200B	
P-FT30200C	XHHW-2	2#10	1#10	3/4										FT30200C	
P-FT30200D	XHHW-2	2#10	1#10	3/4										FT30200D	

AT FULL SIZE IF NOT ONE INCH SCALE ACCORDANCE



THE WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
 Signature: *Bryan Kama*
 DATE: 4/30/2026
 EXPIRES DATE OF THE LICENSE

ONE INCH

DESIGNED BY: BAKAMAMURA
 DRAWN BY: BAKAMAMURA
 APPROVED BY: BAKAMAMURA
 CHECKED BY: BAKAMAMURA
 SECTION HEAD:

PROJECT: COUNTY OF KAUAI
 DEPARTMENT OF PUBLIC WORKS
 DIVISION OF WASTEWATER MANAGEMENT

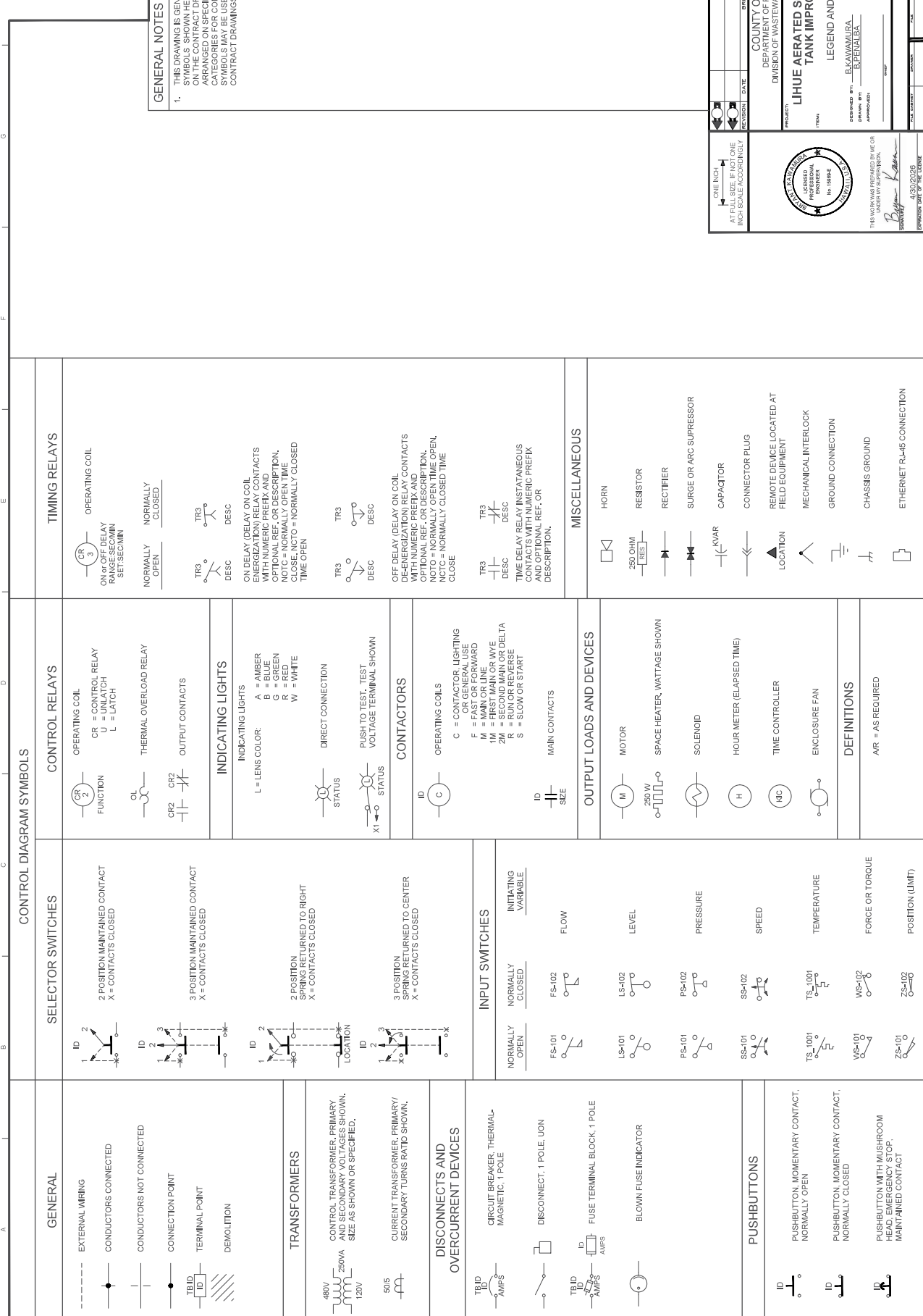
LIHUE AERATED SOLIDS CONTACT TANK IMPROVEMENT

CIRCUIT SCHEDULE

REVISION: _____ DATE: _____

BY: _____

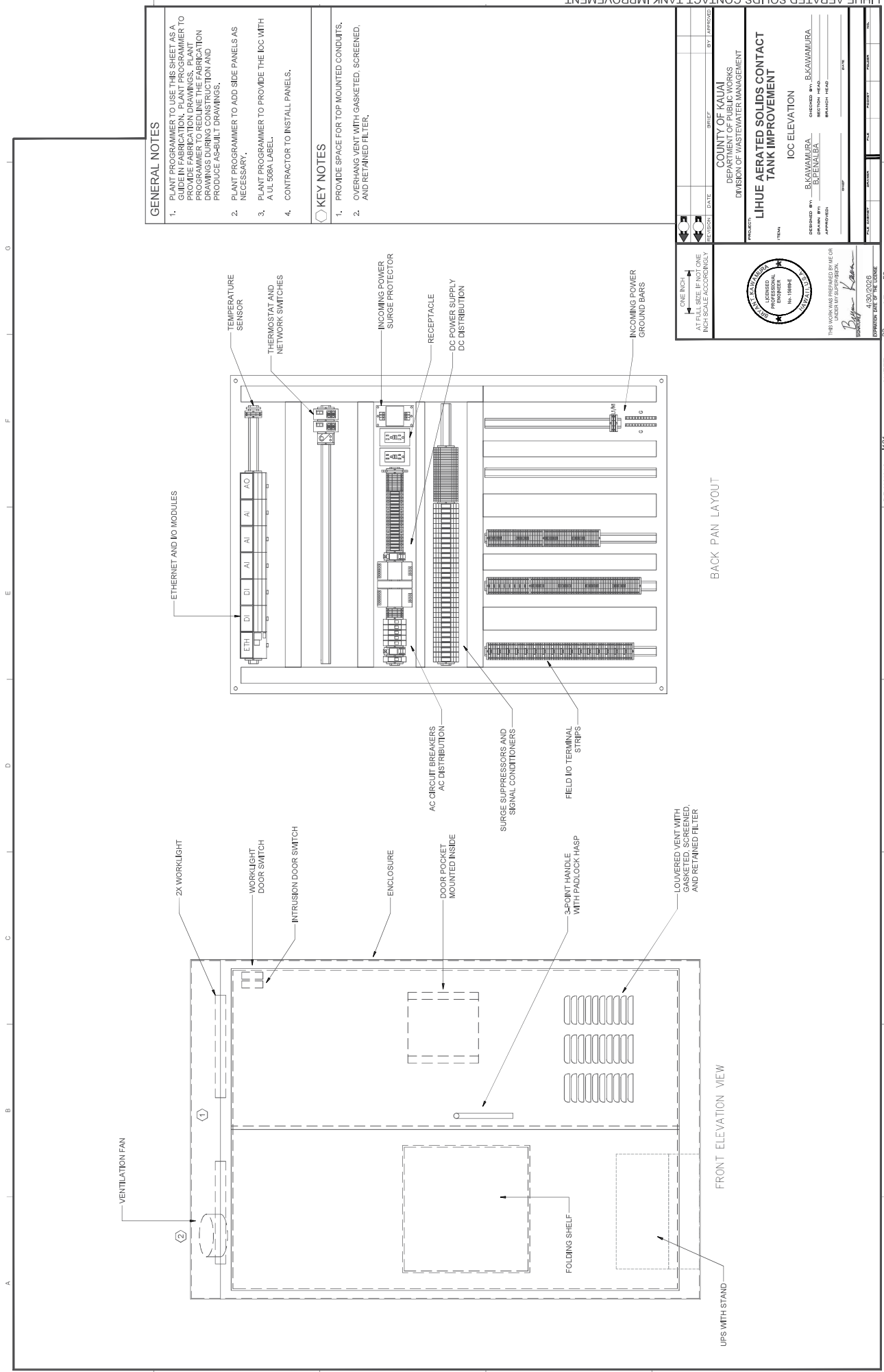
APPROVED BY: _____



PROJECT: COUNTY OF KAUAI
 DIVISION: DIVISION OF WASTEWATER MANAGEMENT
LIHUE AERATED SOLIDS CONTACT TANK IMPROVEMENT
 LEGEND AND SYMBOLS
 DESIGNED BY: BAKAMAMURA
 DRAWN BY: BAKAMAMURA
 APPROVED BY: BAKAMAMURA
 CHECKED BY: BAKAMAMURA
 SECTION NO.:
 SHEET NO.:
 DATE:
 REVISION:
 DATE:
 BY: APPROVED

AT FULL SIZE IF NOT ONE INCH SCALE (FOR GENERAL)
 ONE INCH

THE WORK WAS PREPARED BY ME OR UNDER MY CLOSE PERSONAL SUPERVISION AND I AM A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF HAWAII.
 B. KAMAMURA
 LICENSE NO. 19198-K
 EXPIRES DATE OF THE LICENSE



GENERAL NOTES

1. PLANT PROGRAMMER TO USE THIS SHEET AS A GUIDE IN FABRICATION. PLANT PROGRAMMER TO PROVIDE THE I/O MODULES AND NETWORK SWITCHES. PLANT PROGRAMMER TO PROVIDE THE FABRICATION DRAWINGS DURING CONSTRUCTION AND PRODUCE AS-BUILT DRAWINGS.
2. PLANT PROGRAMMER TO ADD SIDE PANELS AS NECESSARY.
3. PLANT PROGRAMMER TO PROVIDE THE IDC WITH A UL 508A LABEL.
4. CONTRACTOR TO INSTALL PANELS.

KEY NOTES

1. PROVIDE SPACE FOR TOP MOUNTED CONDUITS.
2. OVERHANG VENT WITH GASKETED, SCREENED, AND RETAINED FILTER.

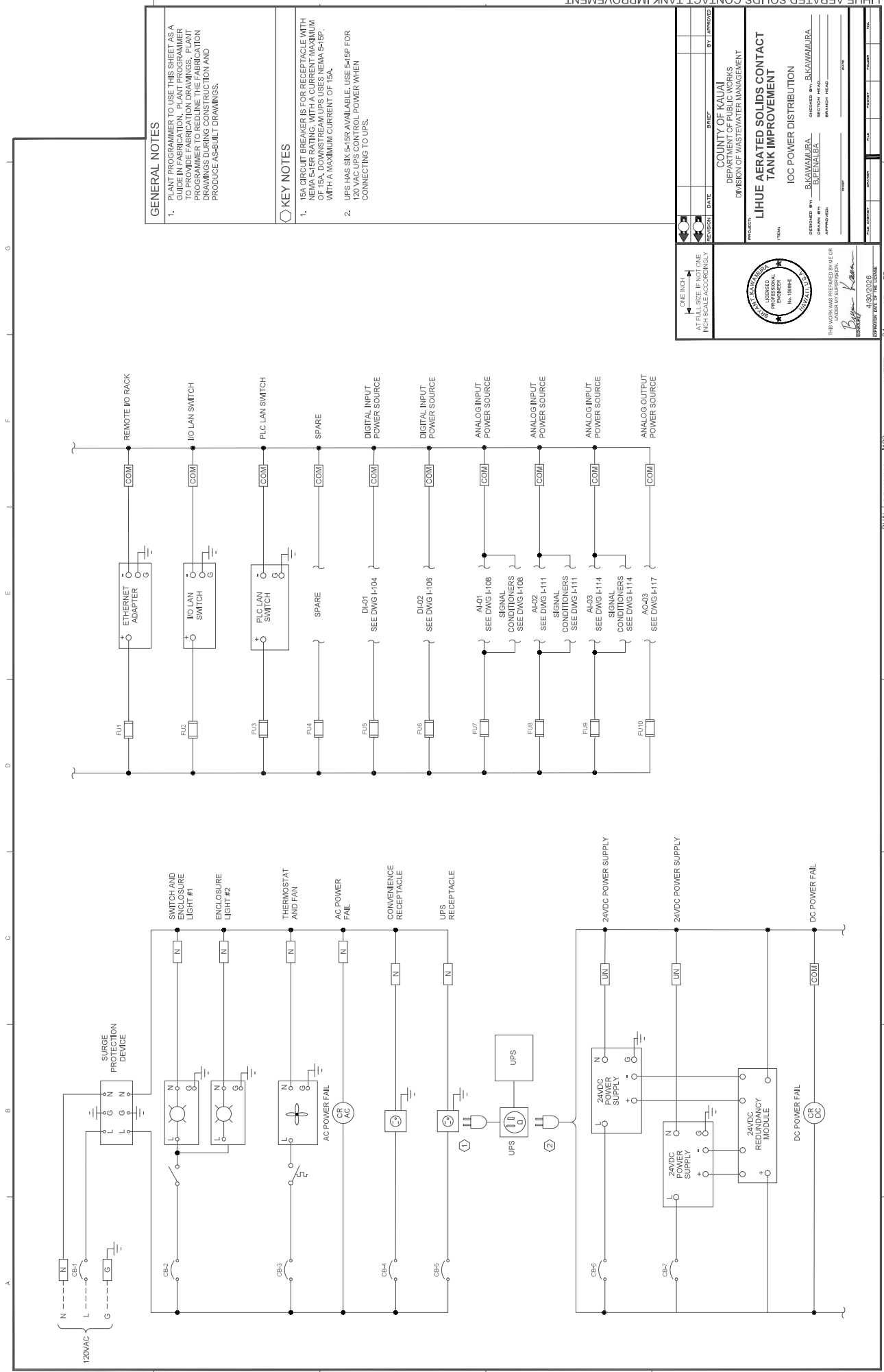
BACK PAN LAYOUT

FRONT ELEVATION VIEW

PROJECT	DATE	BY	APPROVED
REVISION	DATE	BY	APPROVED
COUNTY OF KAUAI DEPARTMENT OF PUBLIC WORKS DIVISION OF WASTEWATER MANAGEMENT			
LIHUE AERATED SOLIDS CONTACT TANK IMPROVEMENT			
I/O ELEVATION			
DESIGNED BY	CHECKED BY	DATE	
BAKAMAMURA	BAKAMAMURA		
DRAWN BY	APPROVED	SECTION NO. 40	
BEJENGLER			

LICENSED PROFESSIONAL ENGINEER
 No. 10394-K
 State of Hawaii

THE WORK WAS PREPARED BY ME OR UNDER MY CLOSE PERSONAL SUPERVISION
 DATE: 4/30/2025
 EXPIRES DATE OF THE LICENSE



GENERAL NOTES

1. PLANT PROGRAMMER TO USE THIS SHEET AS A REFERENCE TO THE I/O RACK AND I/O MODULES TO PROVIDE FABRICATION DRAWINGS. PLANT PROGRAMMER TO RE-DEFINE THE FABRICATION DRAWINGS DURING CONSTRUCTION AND PRODUCE AS-BUILT DRAWINGS.

KEY NOTES

1. 15A CIRCUIT BREAKER IS FOR RECEPTACLE WITH NEMA 5-15R RATING. THE RECEPTACLE SHALL BE USED WITH A MAXIMUM CURRENT OF 15A.
2. UPS HAS SIX 5-15R AVAILABLE. USE 5-15P FOR 120 VAC UPS CONTROL POWER WHEN CONNECTING TO UPS.

AT FULL SIZE IF NOT ONE INCH SCALE ACCORDANCE!

ONE INCH

THE WORK WAS PREPARED BY ME OR UNDER MY CLOSE PERSONAL SUPERVISION AND I AM A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF HAWAII.

Raymond Kama

4/30/2026

EXPIRES DATE OF THE LICENSE

COUNTY OF KAUAI
DEPARTMENT OF PUBLIC WORKS
DIVISION OF WASTEWATER MANAGEMENT

LIHUE AERATED SOLIDS CONTACT TANK IMPROVEMENT

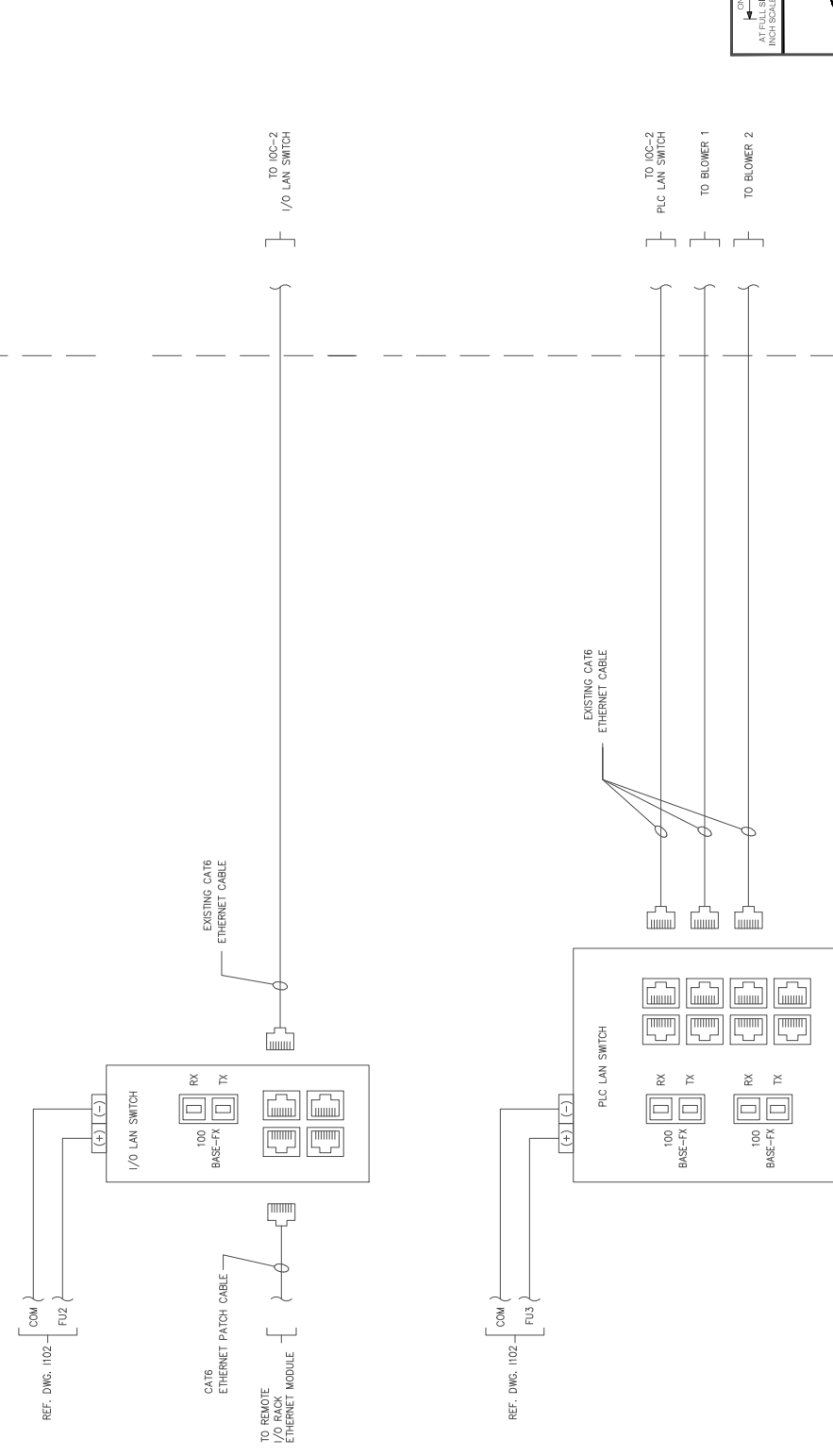
IOE POWER DISTRIBUTION

DESIGNED BY: EKANAMURA
DRAWN BY: EKANAMURA
CHECKED BY: EKANAMURA
SECTION: H-40

REVISION	DATE	BRIEF	BY	APPROVED

0 100 200 300 400 500 600 700 800 900 1000

PANEL FIELD



GENERAL NOTES

1. PLANT PROGRAMMER TO USE THIS SHEET AS A REFERENCE TO THE I/O RACK AND I/O RACK PROGRAMMING TO RELOCATE THE FABRICATION DRAWINGS DURING CONSTRUCTION AND PRODUCE AS-BUILT DRAWINGS.
2. CONTRACTOR TO REROUTE THE TMC CAT6 CONNECTIONS FROM IOC-2 TO THE BLOWERS TO THE SWITCHES IN IOC-7. CONTRACTOR TO CONNECT BLOWERS TO IOC-7 PLC I/O LAN SWITCH. CONTRACTOR TO RELOCATE ONE OF THE BLOWERS TO THE SWITCH CONNECTIONS IN IOC-2 TO THE PLC LAN SWITCH.

ONE INCH
AT FULL SIZE IF NOT ONE
INCH SCALE OTHERWISE

REVISION	DATE	BRIEF	BY	APPROVED

PROJECT: COUNTY OF KAUAI
DIVISION OF WASTEWATER MANAGEMENT

LIHUE AERATED SOLIDS CONTACT TANK IMPROVEMENT

ITEM: IOC NETWORK DIAGRAM

DESIGNED BY: BAKAMAMURA
DRAWN BY: B. FENIGLER
CHECKED BY: BAKAMAMURA
SECTION HEAD:
BRANCH HEAD:
DATE:

THE WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
DATE: 4/30/2026
DRAWN BY: *B. Fenigler*

PROFESSIONAL ENGINEER
LICENSE NO. 10984-E
STATE OF HAWAII

PROJECT NO. 2024-001
SHEET 35 OF 50

0 100 200 300 400 500 600 700 800 900 1000

0 100 200 300 400 500 600 700 800 900 1000

BLW 1 DRAWING 103

SHEET 35 OF 50




LIHUE AERATED SOLIDS CONTACT TANK IMPROVEMENT

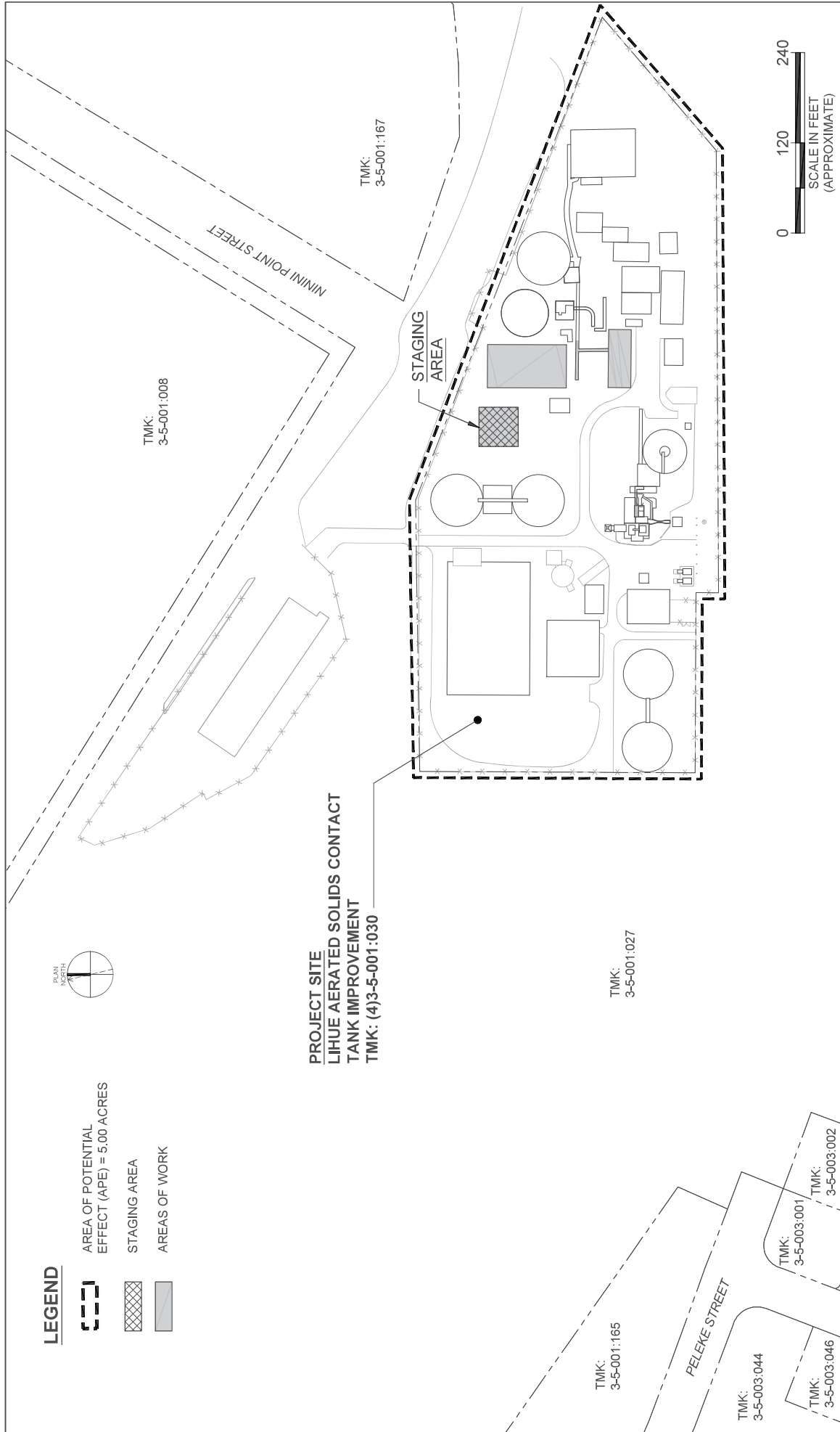
PLT DATE: Wednesday, November 6, 2024 2:24:33 PM CAD USER: YOLANDA NODA

C:\pww33\198281159839-BLW41103.dwg

Attachment B

LEGEND

-  AREA OF POTENTIAL EFFECT (APE) = 5.00 ACRES
-  STAGING AREA
-  AREAS OF WORK



	<p>SCALE: 1" = 120'</p> <p>DATE: November 5, 2024</p>	<p>LIHUE AERATED SOLIDS CONTACT TANK IMPROVEMENT</p> <p>LIHUE WWTP LOCATION MAP - TMK BASE</p>
		<p>FIGURE F1</p>

Attachment C



Figure 1: Street View of Access Road to Lihue WWT



Figure 2: View of the Aerated Solids Contact Tank from the South



Figure 3: View of the Aerated Solids Contact Tank from the Southwest



Figure 4: View of the Aerated Solids Contact Tank from the Southeast



Figure 5: View of the Aerated Solids Contact Tank from the West



Figure 6: View of the Aerated Solids Contact Tank from the East



Figure 7: View of the Aerated Solids Contact Tank from the North



Figure 8: View of the Headworks Tank from the South



Figure 9: View of the Headworks from the Northeast



Figure 10: View of the Headworks from the West

Attachment D

Native Hawaiian Organization / Interested Parties Consultation List

1. Anela Jackson
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Aina Momona
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(808) 213-1107
Email: walter@ritte.org
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Email: ahcc.nuhou@gmail.com
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6. Paula Akana
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7. Kiersten Faulkner
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20. Kauai Historical Society
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21. Kauai Museum
4428 Rice Street
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Email: collections@kauaimuseum.org

22. Grove Farm Homestead Museum (Waioli Corporation)
P.O. Box 1631
Lihue, HI 96766
(808) 245-3202
Email: curator@grovefarm.org