

State of Hawaii  
DEPARTMENT OF LAND AND NATURAL RESOURCES  
Division of Boating and Ocean Recreation  
Honolulu, Hawaii 96819

March 9, 2018

Chairperson and Members  
Board of Land and Natural Resources  
State of Hawaii  
Honolulu, Hawaii

Land Board Members:

SUBJECT: APPROVE INSTALLATION OF FOUR (4) EXISTING MOORINGS OUTSIDE KIHAI AND LAHAINA OFFSHORE MOORING AREAS AND DECLARE INSTALLATION EXEMPT FROM REQUIREMENTS OF CHAPTER 343, HAWAII REVISED STATUTES, AND TITLE 11, CHAPTER 200, HAWAII ADMINISTRATIVE RULES, ISLAND OF MAUI, HAWAII, FOR KRISTIE WRIGGLESWORTH ON BEHALF OF CATAMARAN EXPRESS, INC., THE LEILANI CORPORATION, UNICORN TOURS OF HAWAII, INC., AND FOUR-ISLAND OCEAN ADVENTURES, INC.

REQUEST

The Division of Boating and Ocean Recreation (“DOBOR”) is requesting that the Board of Land and Natural Resources (“Board”) approve the installation of four (4) existing offshore moorings outside of the Lahaina and Kihei Offshore Mooring Zone. As required by HAR 13-235-9, any applicant requesting to moor a vessel outside of an established offshore mooring area must obtain approval from the Board.

DOBOR is also requesting that the Board declare the installation of the moorings exempt from the requirements of Hawaii Revised Statutes, Chapter 343 to prepare an Environmental Assessment (“EA”), due to the use of submerged State land.

The applicant, Kristie Wrigglesworth, Deputy Executive Director of the Pacific Whale Foundation (“Applicant”), uses four (4) existing offshore moorings. Two (2) moorings, Unicorn Tours of Hawaii, Inc. and Four-Island Ocean Adventures, Inc., are installed outside of the Lahaina Offshore Mooring Area in Lahaina and two (2) moorings, Catamaran Express, Inc. and The Leilani Corporation, are installed outside of the Kihei Offshore Mooring Area in Kihei. All four (4) moorings have been in use for several years.

The Applicant is requesting that the Board declare the installation of the offshore moorings exempt from the requirement to prepare an EA, as required by Chapter 343, HRS, and Chapter 11-200, HAR due to the use of submerged State land. In addition, the Applicant is requesting that the Board approve the mooring installation of the moorings outside of the Lahaina and Kihei Offshore Mooring Areas, as required by HAR 13-235-9, due to the water depths in both offshore mooring areas being too shallow and congestion of vessels within the mooring areas, both of which present a risk of damage to the vessels and possible grounding during large storm and ocean swell events. The Applicant’s request is attached as Exhibit A.

## PERMITS AND COMPLIANCE WITH FEDERAL AND STATE LAW

In order to comply with Federal Law (Section 10 of the Rivers and Harbors act of 1899), DOBOR is requiring that all offshore moorings under their jurisdiction obtain a permit from the U.S. Army Corps of Engineers (“ACOE”). In addition, to ensure that the mooring system is structurally sound, DOBOR is requiring that all offshore mooring permittees submit an Offshore Mooring Installation Plan, prepared by a licensed structural engineer, for approval.

The Applicant has obtained a Nationwide Permit Verification from the ACOE authorizing the installation and use of the existing moorings. A Mooring Installation Plan, prepared by a licensed structural engineer, has also been submitted to and approved by DOBOR Engineering Branch for each vessel. The ACOE Permit and approved Mooring Installation Plan for each mooring are also attached with Exhibit A.

In accordance with HAR 13-235-6, the National Marine Fisheries Service (NMFS) and DLNR, Division of Aquatic Resources (DAR) must determine whether an offshore mooring is detrimental to the habitat or spawning ground of marine life. Through the ACOE permitting process, NMFS has been consulted and determined the offshore moorings have no detrimental effect to the habitat or spawning ground of marine life. DAR has also been consulted and concurred that the offshore moorings have no detrimental effect to the habitat or spawning ground of marine life.

## ENVIRONMENTAL ASSESSMENT EXEMPTION

In accordance with Hawaii Administrative Rule (HAR) Section 11-200-8(A) and the Exemption List for the Department of Land and Natural Resources (DLNR), approved by the Environmental Council, on June 5, 2015, it has been determined that the installation of the existing moorings is exempt from the preparation of an EA pursuant to the following exemptions:

Item No. 13 of Exemption Class 6: “Placement or construction of accessory structures such as utility sheds, storage or maintenance sheds, office trailers, trash enclosures, comfort stations or sanitation facilities and related individual wastewater disposal systems, bus shelters, pavilions or picnic shelters, parking and fee collection facilities, checking stations, interpretive kiosks and displays, dock boxes, mooring cleats, bumpers, and mooring buoys, blocks, and piles, and other similar structures accessory to existing facilities on state land and waters.”

Consultations with the U.S. Army Corps of Engineers for this EA Exemption have been conducted for each vessel as required by HAR 11-200-8.

## **RECOMMENDATION**

Approve the installation of four (4) existing offshore moorings outside the Lahaina and Kihei Offshore Mooring Areas and declare that, after considering the potential effects of the installed mooring as provided by Chapter 343, HRS, and Chapter 11-200, HAR, this project will probably have minimal or no significant effect on the environment and is therefore exempt from the preparation of an environmental assessment.

Respectfully Submitted,



EDWARD R. UNDERWOOD, Administrator  
Division of Boating & Ocean Recreation

APPROVED FOR SUBMITTAL:



SUZANNE D. CASE, Chairperson  
Board of Land and Natural Resources

Attachment:

- A. Applicant's request for approval of moorings, approved Mooring Installation Plans,  
Nationwide Permit Verification Letters from Army Corps of Engineers

## EXHIBIT A

January 4<sup>th</sup>, 2018

SUBMITTED TO:

Mr. Finn McCall

Board of Land & Natural Resources, State of Hawaii, Department of Land & Natural Resources (DLNR) Division of Boating and Ocean Recreation, 4 Sand Island Access Road, Honolulu, HI 96819

Email: finn.d.mccall@hawaii.gov

Phone: (808) 587-3520

SUBMITTED BY:

Catamaran Express, Inc.

Attn: Kristie Wigglesworth

300 Maalaea Road, Suite 211

Wailuku, HI 96793

Ph: 808-208-3211

Submitted in compliance with Hawaii Revised Status Chapter 343 and HAR §§ 11-200-8; 11-200-8(b)

SUBJECT:

Request for Exemption from Requirement for Preparation of Environmental Assessment for and Approval for the Installation and Modification of an Existing Offshore Mooring within Maalaea Bay on the Island of Maui

REQUEST:

Kristie Wigglesworth (hereinafter referred to as "Petitioner") requests approval for installation and modification of an existing offshore mooring within Maalaea Bay and an exemption from the requirement for an environmental assessment report associated with the proposed mooring modification, as the proposed work will have little to no environmental impact, as discussed herein below:

Reasoning and Justification for Request of Environmental Assessment Exemption:

- 1) The reason for the Environmental Assessment is due to the use of State submerged lands
- 2) Petitioner requests exemption from requirement for an environmental assessment report associated with the proposed mooring modification, as the proposed installation of two MR-SR manta marine anchors will have little or no impact on the environment in the proposed location.
- 3) The current exemption list for the Department of Land and Natural Resources dated June 5, 2015 provides as follows under Exemption Class 6: "13. Placement or construction of accessory structures such as ... mooring, cleats, bumpers, and mooring buoys, blocks and piles, and other similar structures accessory to existing facilities on state land and waters."

Project Description –

Modification of an existing private offshore mooring buoy in Maalaea Bay, Maalaea HI.

Technical Description of Proposed Installation –

The modification of the existing mooring will be the retention of one mooring buoy comprised of two concrete blocks, weighing 2000-pounds (lbs.) each. Two MR-SR manta marine anchors are to be driven 7 to 8 feet into the sand bottom approximately 15 feet apart and 2 feet from the mooring blocks. There is a 3/4-inch galvanized Campbell dock fender chain from the seafloor to the manta anchor attached with a 7/8-inch galvanized bolt anchor

**CATAMARAN EXPRESS, INC.**

shackle and seizing wire. The other end of the manta anchor chain is shackled with a 7/8-inch galvanized bolt anchor shackle with seizing wire and a 3/4-inch galvanized Campbell mooring chain that is 15 feet long.

The two 15-foot long chains are shackled to a 1 3/8-inch weldless ring by a 7/8-inch galvanized bolt anchor shackle with seizing wire. The 3/4-inch galvanized Campbell mooring chain, which is 15 feet long, chains all of the blocks together and is shackled to the ring. Going to the surface, there is a 3/4-inch galvanized Campbell mooring chain that is 45 feet long that is shackled with a 7/8-inch galvanized bolt anchor shackle with seizing wire to 2-inch blue steel 3-strand rope that is 45 feet long with thimble eyes at both ends. The 2-inch blue steel 3-strand rope is shackled with a 7/8-inch galvanized bolt anchor shackle with seizing wire and is attached to a 1 and 1/4-inch forged eye swivel. The eye swivel is shackled with a 7/8-inch galvanized bolt anchor shackle with seizing wire to a 3/4-inch galvanized Campbell mooring chain that is 10 feet long. The 10-foot long chain goes through a 3-inch tube in the buoy. The buoy is a 24-inch mooring buoy. The top of the mooring buoy has two 1 and 1/4-inch double braided nylon ropes that are 30 feet long with eye splice at both ends. The chain is suspended and floating with two float balls, buoyancy of 180 lbs. each. One is attached at the weld less ring and one is attached at the shackle point of the 45-foot chain and 2-inch blue steel rope. All work will be conducted in accordance with the attached Army Corps of Engineers permit.

#### Location of Proposed Installation –

The proposed mooring buoy would be located at center coordinates: Latitude: 20.7821N, Longitude: 156.4731W. The location is approximately 2,000 feet from the nearest shore.

#### Purpose of Proposed Installation –

The proposed mooring will be used by the Petitioner solely for the purpose of mooring a boat for commercial purposes.

#### Impact on Coastal Ecosystems-

**NEGLIGIBLE:** The proposed mooring site is 2,000 feet from the nearest shore and is not within the Special Management Area or Shoreline Setback Area, nor is the site within a State Conservation District. This site does not provide habitat for any known endangered species of plants, birds, or mammals. The site is not within, and does not boarder any National Area Reserve, Marine Conservation District, or estuary. The site is not on or close to any reef or coral colonies. No material will be placed or discharged in the project area. A MANTA RAY anchor will be utilized in order to protect the natural resources in the area. The MANTA RAY anchor is an environmentally friendly anchor system that installs easily under water with conventional equipment. No dredge or fill activities will be involved in the installation of the MANTA RAY mooring anchor. The mooring will be placed within an existing designated DLNR "Offshore" mooring area.

#### Impact on Marine Resources –

**NONE:** The proposed mooring does not involve or affect the use or development of any marine or coastal resources.

Catamaran Express, Inc.  
Request for Exemption from EA Requirement/  
Approval for the Installation and Modification  
of an Existing Offshore Mooring  
Maalaea Bay, Maui

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Impact on Historic Resources –

**NONE:** The project site is not within a designated historic or cultural district and has not been listed or nominated for the Hawaii or National Register of Historic Places. The proposed project site contains no known historic or archeological resources and is not within or adjacent to any Hawaiian fishpond or historic settlement area.

Impact on Scenic and Open Space Resources –

**NEGLIGIBLE:** A boat will be located at the proposed mooring location and will be visible. The mooring ball will be visible floating on the surface of the water.

Enclosure: Army Corps of Engineers Permit # POH-2017-192



**CATAMARAN EXPRESS, INC.**

The Harbor Shops at Ma'alaea | 300 Ma'alaea Road, Suite 211 | Wailuku, HI 96793 | Ph: 808-249-8811 | Fx: 808-243-9021



DEPARTMENT OF THE ARMY  
HONOLULU DISTRICT, U.S. ARMY CORPS OF ENGINEERS  
BUILDING 230, CEPOH-RO  
FORT SHAFTER, HAWAII 96858-5440

SEP 22 2017

Regulatory Branch  
POH-2017-192

Catamaran Express, Inc.  
Attention: Kristie Wigglesworth  
300 Maalaea Road, Suite 211  
Wailuku, Hawaii 96793

Dear Ms. Wigglesworth:

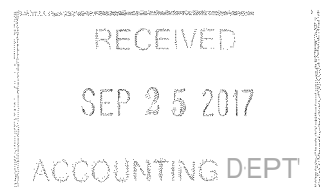
This is in response to your September 6, 2017, application for a Department of the Army (DA) permit authorization on behalf of Catamaran Express, Inc., in order to retain one mooring buoy comprised of two 1 ton concrete blocks, with a total length of working chain and line of 144 feet. It has been assigned file number POH-2017-192, Maalaea Bay, which should be referred to in all future correspondence with this office.

The project site is located in Maalaea Bay; Latitude 20.7821° N., Longitude 156.4731° W.; Maalaea Bay, approximately 4,000 linear feet from the intersection of Mokulele Highway and State Route 310, near Kalaepohaku, Maui, Hawaii.

DA permit authorization is necessary because your project involves a structures in waters of the U.S. under our regulatory jurisdiction.

Based upon the information and plans you provided, we hereby verify that the mooring buoy shown on the plans (sheets 1-3), dated July 3, 2017, and is authorized by Nationwide Permit (NWP) No. 9, Structures in Fleeting and Anchorage Areas. NWP No. 9 and its associated Regional and General Conditions can be accessed at our website at: [www.poa.usace.army.mil/Missions/Regulatory/Permits](http://www.poa.usace.army.mil/Missions/Regulatory/Permits). You must comply with all terms and conditions associated with NWP No. 9.

Unless this NWP is modified or revoked, it expires on March 19, 2022. It is incumbent upon you to remain informed of the changes to the NWPs. Nothing in this letter excuses you from compliance with other Federal, State, or local statutes, ordinances, or regulations.



Please contact Mr. Michael R. Gala via email at [michael.r.gala@usace.army.mil](mailto:michael.r.gala@usace.army.mil), by mail at the address above or by phone at (907) 753-2821 if you have questions. For more information about the Regulatory Program, please visit our website at [www.poh.usace.army.mil/Missions/Regulatory](http://www.poh.usace.army.mil/Missions/Regulatory).

Sincerely,



Shane M. McCoy  
Chief, South Section  
Alaska Regulatory South Branch

Enclosures





**US Army Corps of Engineers  
Honolulu District**

Permit Number: POH-2017-192

Name of Permittee: Catamaran Express, Inc.

Date of Issuance: SEP 22 2017

Upon completion of the activity authorized by this permit and any mitigation required by the permit, sign this certification and return it to the following address:

U.S. Army Corps of Engineers  
Honolulu District, Regulatory Branch  
Building 230, CEPOH-RO  
Fort Shafter, Hawaii 96858-5440

Please note that your permitted activity is subject to a compliance inspection by an U.S. Army Corps of Engineers representative. If you fail to comply with this permit you are subject to permit suspension, modification, or revocation.

I hereby certify that the work authorized by the above-referenced permit has been completed in accordance with the terms and conditions of the said permit, and required mitigation was completed in accordance with the permit conditions.

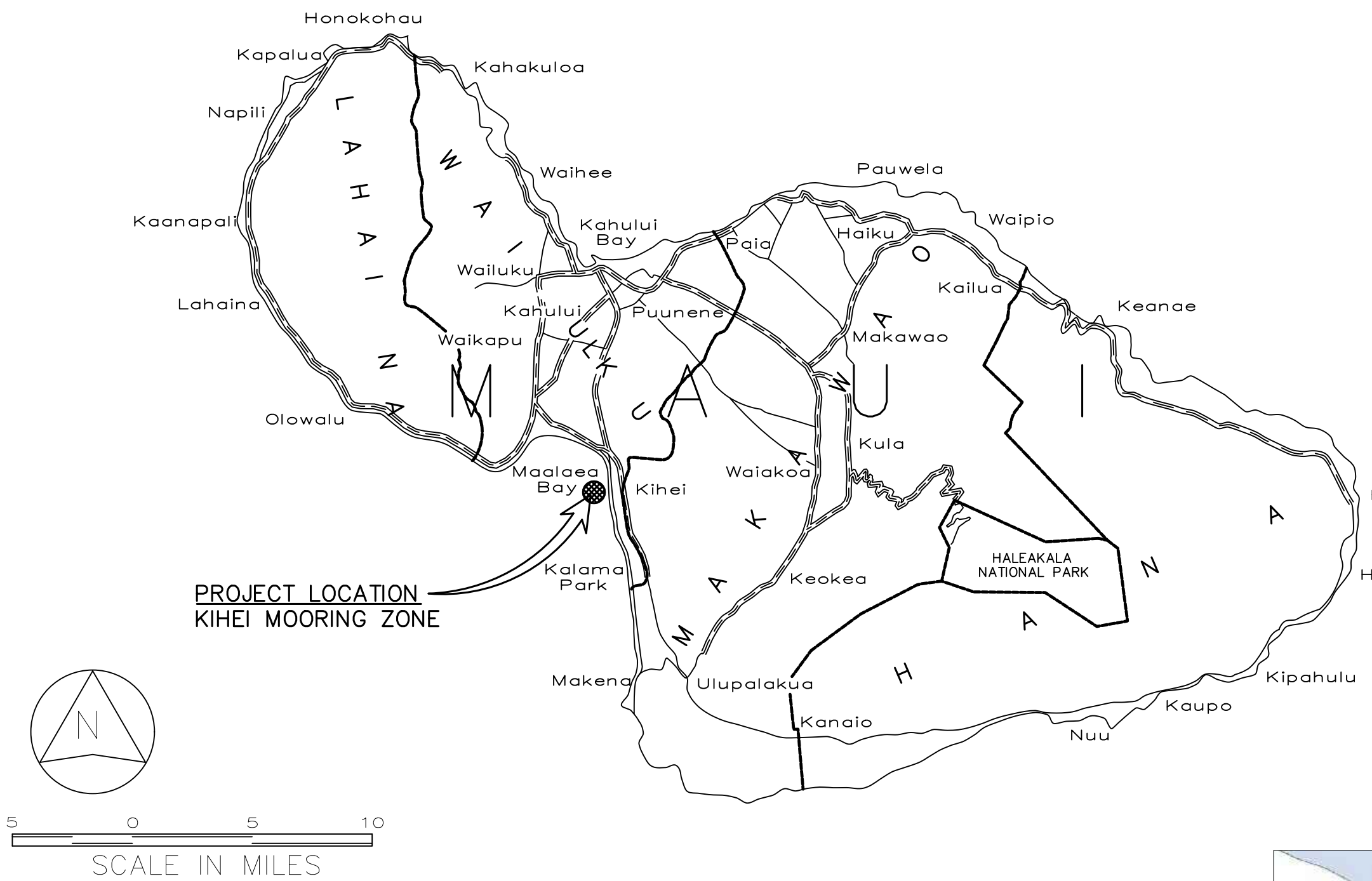
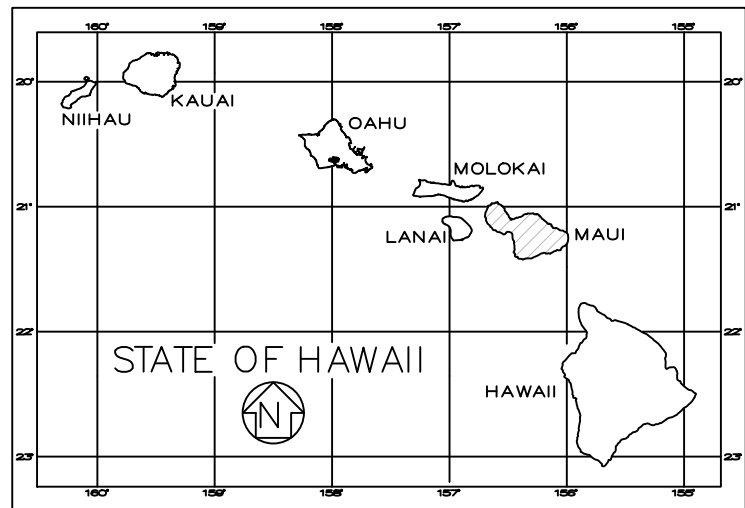
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Signature of Permittee

\_\_\_\_\_  
Date



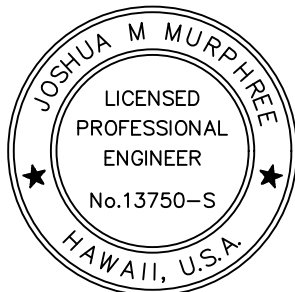
OFFSHORE MOORING - KIHAI MOORING ZONE
FOR: CATAMARAN EXPRESS, INC.

POINT OF CONTACT : KRISTIE WRIGGLESWORTH
GPS COORDINATES OF MOORING : 20.782067°N, 156.473100°W
APPROXIMATE WATER DEPTH : 37'



Department of Land and Natural Resources
Division of Boating and Ocean Recreation
PLAN REVIEW:
[Approved/Rejected/As noted/Revise & Resubmit]
By: [Signature] Date: 7/25/17
Corrections, comments or approval of plans shall not relieve the contractor from other local, state, federal or other agency regulations or permit conditions. This review is for general conformance with engineering design guidelines. The contractor is responsible for confirming all dimensions, quantities, fabrication requirements, and coordination with all other trades.

PHREE CREATIONS, LLC.
61-655 KAMEHAMEHA HIGHWAY
HALEIWA, HAWAII 96712 • (808) 349-4990



Signature of Joshua M. Murphree
EXPIRATION DATE OF THE LICENSE 4/30/2018
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION

GENERAL NOTES
CONTRACTOR/OWNER/BUILDER SHALL CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS AT THE JOBSITE BEFORE PROCEEDING WITH THE WORK AND NOTIFY ENGINEER OF ANY DISCREPANCIES FOR RESOLUTION.
ALL CONSTRUCTION SHALL CONFORM TO THE 2006 INTERNATIONAL BUILDING CODE AND THE LATEST COUNTY OF MAUI/STATE OF HAWAII AMENDMENTS AND ORDINANCES AND/OR THE CITY AND COUNTY OF WHERE THIS PROJECT IS LOCATED AND HAVING JURISDICTION.

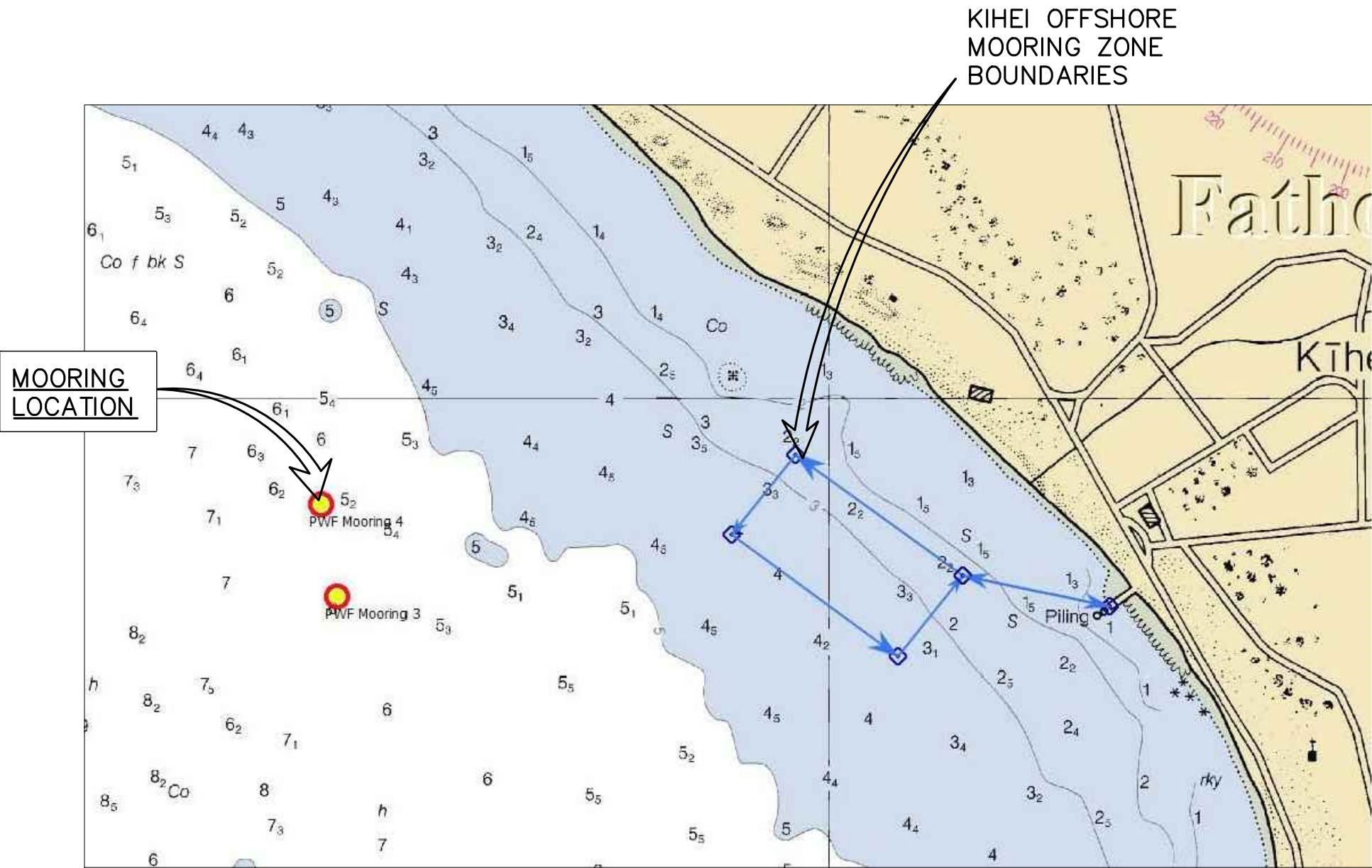
REVISION MARK • DATE • DESCRIPTION

PROPOSED OFFSHORE MOORING KIHAI MOORING ZONE FOR: CATAMARAN EXPRESS, INC.
CONTACT: KRISTIE WRIGGLESWORTH
300 MA'ALAE RD., SUITE 211
WAILUKU HAWAII 96793
PHONE: (808) 208-3211
GPS COORDINATES: 20.782067°N 156.473100°W

SHEET TITLE
TITLE SHEET

JOB NO. 2015-0007.27D DRAWING NO. T-1
DRAWN JMM
CHECKED JMM
DATE JULY 3, 2017 SHEET 1 OF 3

Table with 3 columns: SHEET NUMBER, DRAWING NUMBER, DESCRIPTION. Rows include Title, Index to Drawings, and Vicinity Map, Mooring Plan, and Swing Circle.



LOCATION MAP



GENERAL:

- A. WORKMANSHIP AND MATERIALS SHALL CONFORM TO THE BUILDING CODE AS STATED BELOW. HOWEVER, WHERE REFERENCE IS MADE TO PERFORMANCE CONFORMING TO OTHER STANDARDS THE MORE STRINGENT SHALL APPLY.
1. COUNTY OF MAUI: AMENDED IBC, 2006
- B. THE CONTRACTOR SHALL TAKE FIELD MEASUREMENTS AND VERIFY FIELD CONDITIONS AND SHALL COMPARE SUCH FIELD MEASUREMENTS AND CONDITIONS WITH THE DRAWINGS BEFORE COMMENCING WORK. REPORT IN WRITING TO THE ENGINEER ALL INCONSISTENCIES AND OMISSIONS.
- C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR METHODS OF CONSTRUCTION, WORKMANSHIP AND JOB SAFETY.
- D. DETAILS NOTED AS TYPICAL ON THE STRUCTURAL DRAWINGS SHALL APPLY IN ALL CONDITIONS UNLESS SPECIFICALLY SHOWN OR NOTED.
- E. PRODUCT DATA REQUIRED BY THESE NOTES SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.

DESIGN CRITERIA:

- A. MINIMUM DESIGN CRITERIA FOR MOORING IN ACCORDANCE WITH UFC 4-159-03:
1. TYPE IIB STORM MOORING
- B. WIND DESIGN DATA:
1. BASIC WIND SPEED: 105 MPH
- C. CURRENT:
1. MAX CURRENT: 1.5 KNOTS
- D. WAVES AND TIDAL VARIATIONS:
1. PEAK OFFSHORE WAVE HEIGHT: 8 FEET
- DESIGN VESSEL: "OCEAN DISCOVERY" OR SMALLER VESSEL
1. LENGTH: 70'-0"
2. WIDTH: 28'-0"
3. DRAFT: 8'-6"
4. WEIGHT: 67 NET TONS

\*MOORING IS DESIGNED FOR DESIGN VESSEL ONLY, ANY CHANGE IN MOORED VESSEL REQUIRES RE-ANALYSIS.

EARTH ANCHORS:

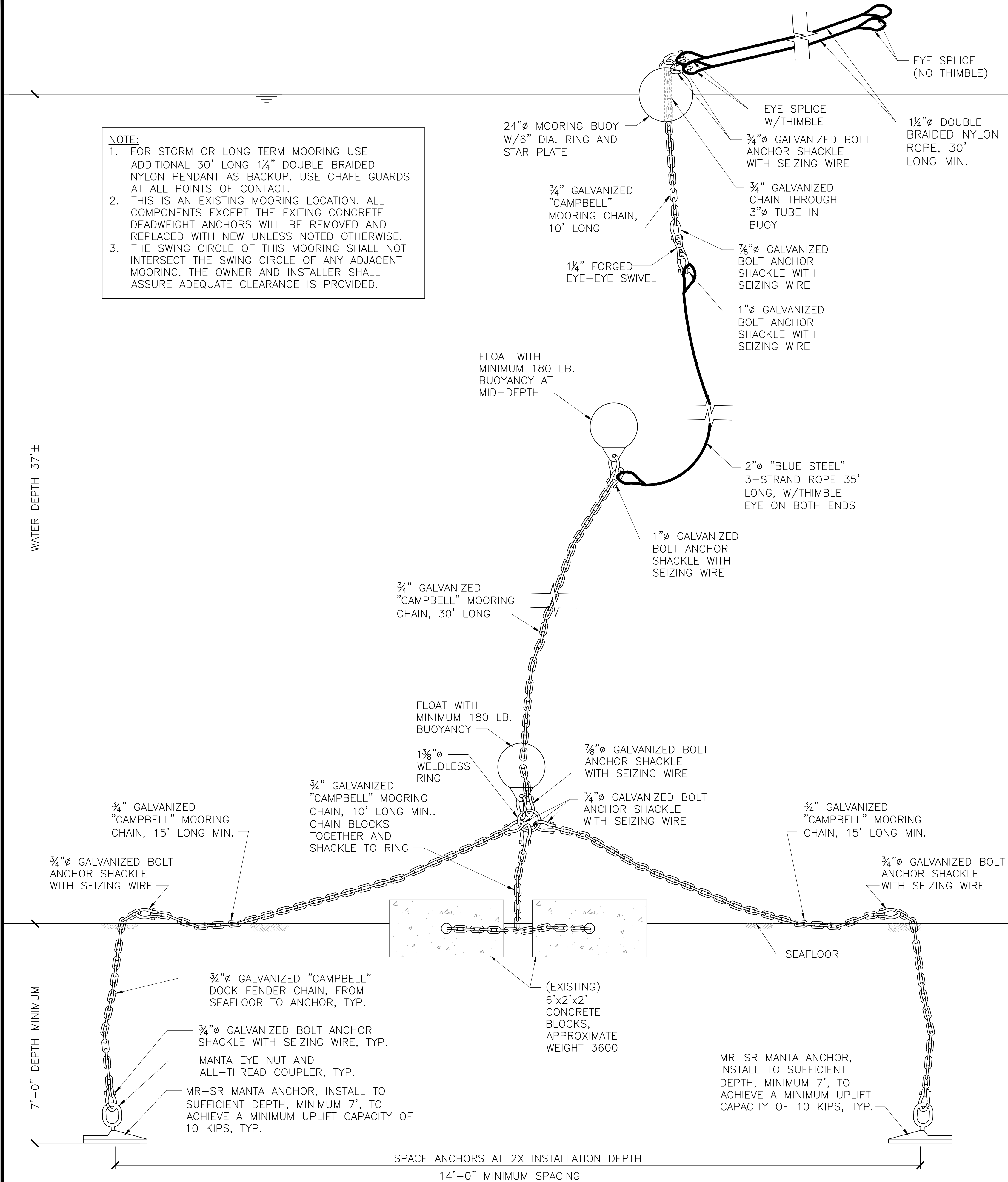
- A. SELECTION OF ANCHOR TYPE SHALL BE BASED UPON SURVEY SITE AND SOIL PROBING TO MINIMUM DEPTH OF 10' AT PROPOSED ANCHOR LOCATION. CONTRACTOR SHALL PROVIDE RESULTS OF SURVEY, SOIL PROBING, AND PROPOSED ANCHOR TYPE TO ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.
- B. INSTALL ANCHORS PER MANUFACTURERS INSTRUCTIONS. PROOF TEST TO MINIMUM UPLIFT CAPACITY STATED ON DESIGN DRAWINGS. SUBMIT DOCUMENTATION OF PROOF LOAD TESTING TO ENGINEER FOLLOWING INSTALLATION.
- C. MANTA ANCHORS SHALL NOT BE INSTALLED IN LOCATIONS WHERE SHIFTING SAND MAY RESULT IN REDUCED SOIL COVER OVER ANCHOR HEAD.

CHAIN, HARDWARE, ROPE, AND MOORING COMPONENTS

- A. ALL CHAIN AND HARDWARE SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM A153.
- B. THIMBLES OR CHAFE GUARDS SHALL BE USED WITH ROPES AT ALL POINTS OF CONTACT.
- C. SUBMIT PRODUCT DATA OF ALL CHAINS, HARDWARE, ROPE, AND MOORING COMPONENTS TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION.

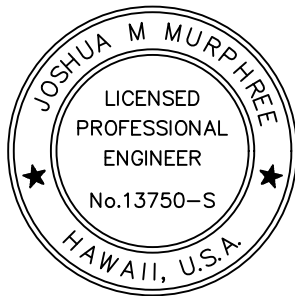
MOORING HARDWARE, MAINTENANCE AND INSPECTION

- A. THE VESSEL OWNER SHALL BE RESPONSIBLE FOR MAINTAINING THE VESSEL'S MOORING HARDWARE. ANY FAILURE RESULTING FROM NON MAINTAINED COMPONENTS OR UNREPAIRED DAMAGE OF THE MOORING RESULTING FROM NORMAL USE SHALL BE THE RESPONSIBILITY OF THE VESSEL OWNER.
- B. THE VESSEL OWNER SHALL INSPECT ALL MOORING HARDWARE, ROPES, AND CHAINS FROM SEA FLOOR TO PENDANT FOR SAFETY AND SECURITY NO LESS THAN TWO TIMES PER YEAR. INSPECTION REPORT/RECORDS SHALL BE KEPT BY VESSEL OWNER AND REPORTED TO HARBORMASTER/DLNR AS REQUIRED.
- C. THE VESSEL OWNER IS RESPONSIBLE FOR INSTALLING AND MAINTAINING CHAFING GEAR ON ALL MOORING LINES.



PHREE CREATIONS, LLC.

61-655 KAMEHAMEHA HIGHWAY  
HALEIWA, HAWAII 96712 • (808) 349-4990



EXPIRATION DATE OF THE LICENSE 4/30/2018  
THIS WORK WAS PREPARED BY  
ME OR UNDER MY SUPERVISION  
AND CONSTRUCTION OF THIS PROJECT  
WILL BE UNDER MY OBSERVATION

GENERAL NOTES

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ALL CONSTRUCTION SHALL CONFORM TO THE 2006 INTERNATIONAL BUILDING CODE AND THE LATEST COUNTY OF MAUI/STATE OF HAWAII AMENDMENTS AND ORDINANCES AND/OR THE CITY AND COUNTY OF WHERE THIS PROJECT IS LOCATED AND HAVING JURISDICTION.

REVISION MARK • DATE • DESCRIPTION

PROJECT

PROPOSED  
OFFSHORE MOORING  
KIHAI MOORING ZONE  
FOR:

CATAMARAN  
EXPRESS, INC.

CONTACT: KRISTIE WRIGGLESWORTH  
300 MA'ALAEA RD., SUITE 211  
WAILUKU HAWAII 96793  
PHONE: (808) 208-3211

GPS COORDINATES: 20.782067°N  
156.473100°W

SHEET TITLE

MOORING PLAN

JOB NO. 2015-0007.27D

DRAWING NO.

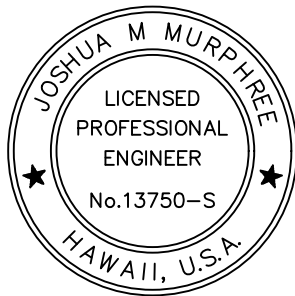
DRAWN JMM

CHECKED JMM

DATE JULY 3, 2017

S-1

SHEET 2 OF 3



*JM*  
EXPIRATION DATE OF THE LICENSE 4/30/2018  
THIS WORK WAS PREPARED BY  
ME OR UNDER MY SUPERVISION  
AND CONSTRUCTION OF THIS PROJECT  
WILL BE UNDER MY OBSERVATION

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REVISION MARK • DATE • DESCRIPTION

PROJECT

PROPOSED  
OFFSHORE MOORING  
KIHEI MOORING ZONE  
FOR:  
CATAMARAN  
EXPRESS, INC.

CONTACT: KRISTIE WRIGGLESWORTH  
300 MA'ALAEA RD., SUITE 211  
WAILUKU HAWAII 96793  
PHONE: (808) 208-3211  
GPS COORDINATES: 20.782067°N  
156.473100°W

SHEET TITLE

SWING CIRCLE

JOB NO. 2015-0007.27D

DRAWING NO.

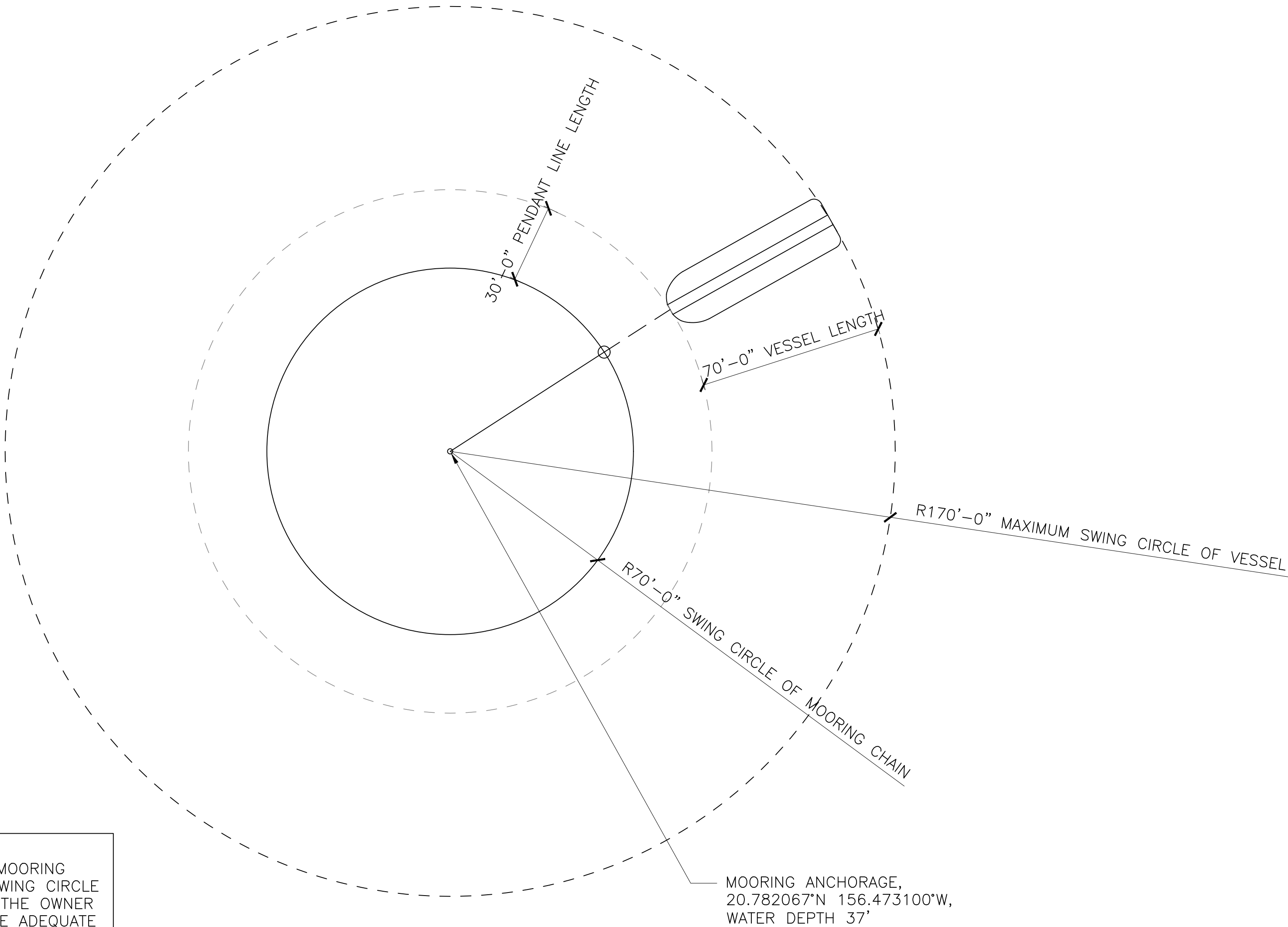
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CHECKED JMM

DATE JULY 3, 2017

S-2

SHEET 3 OF 3



NOTE:  
THE SWING CIRCLE OF THIS MOORING SHALL NOT INTERSECT THE SWING CIRCLE OF ANY ADJACENT MOORING. THE OWNER AND INSTALLER SHALL ASSURE ADEQUATE CLEARANCE IS PROVIDED.

SWING CIRCLE  
SCALE: 1/32" = 1'-0"

---

January 4<sup>th</sup>, 2018

**SUBMITTED TO:**

Mr. Finn McCall

Board of Land & Natural Resources, State of Hawaii, Department of Land & Natural Resources (DLNR) Division of Boating and Ocean Recreation, 4 Sand Island Access Road, Honolulu, HI 96819

Email: finn.d.mccall@hawaii.gov

Phone: (808) 587-3520

**SUBMITTED BY:**

The Leilani Corporation

Attn: Kristie Wigglesworth

300 Maalaea Road, Suite 211

Wailuku, HI 96793

Ph: 808-208-3211

Submitted in compliance with Hawaii Revised Status Chapter 343 and HAR §§ 11-200-8; 11-200-8(b)

**SUBJECT:**

Request for Exemption from Requirement for Preparation of Environmental Assessment for and Approval for the Installation and Modification of an Existing Offshore Mooring within Maalaea Bay on the Island of Maui

**REQUEST:**

Kristie Wigglesworth (hereinafter referred to as "Petitioner") requests approval for installation and modification of an existing offshore mooring within Maalaea Bay and an exemption from the requirement for an environmental assessment report associated with the proposed mooring modification, as the proposed work will have little to no environmental impact, as discussed herein below:

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- 2) Petitioner requests exemption from requirement for an environmental assessment report associated with the proposed mooring modification, as the proposed installation of MR-SR manta marine anchors will have little or no impact on the environment in the proposed location.
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The modification of the existing mooring will be the retention of one mooring buoy comprised of two concrete blocks, each weighing approximately 3600 (lbs.) Two MR-SR manta marine anchors are to be driven 7 to 8 feet into the sand bottom approximately 15 feet apart and 2 feet from the mooring blocks. There is a 3/4-inch galvanized Campbell dock fender chain from the seafloor to the manta anchor attached with a 7/8-inch galvanized bolt anchor

**LEILANI CORPORATION**

The Harbor Shops at Ma'alaea | 300 Ma'alaea Road, Suite 211 | Wailuku, HI 96793 | Ph: 808-249-8811 | Fx: 808-243-9021

shackle and seizing wire. The other end of the manta anchor chain is shackled with a 7/8-inch galvanized bolt anchor shackle with seizing wire and a 3/4-inch galvanized Campbell mooring chain that is 15 feet long.

The two 15-foot long chains are shackled to a 1 3/8-inch weldless ring by a 7/8-inch galvanized bolt anchor shackle with seizing wire. The 3/4-inch galvanized Campbell mooring chain, which is 15 feet long, chains all of the blocks together and is shackled to the ring. Going to the surface, there is a 3/4-inch galvanized Campbell mooring chain that is 45 feet long that is shackled with a 7/8-inch galvanized bolt anchor shackle with seizing wire to 2-inch blue steel 3-strand rope that is 45 feet long with thimble eyes at both ends. The 2-inch blue steel 3-strand rope is shackled with a 7/8-inch galvanized bolt anchor shackle with seizing wire and is attached to a 1 and 1/4-inch forged eye swivel. The eye swivel is shackled with a 7/8-inch galvanized bolt anchor shackle with seizing wire to a 3/4-inch galvanized Campbell mooring chain that is 10 feet long. The 10-foot long chain goes through a 3-inch tube in the buoy. The buoy is a 24-inch mooring buoy. The top of the mooring buoy has two 1 and 1/4-inch double braided nylon ropes that are 30 feet long with eye splice at both ends. The chain is suspended and floating with two float balls, buoyancy of 180 lbs. each. One is attached at the weld less ring and one is attached at the shackle point of the 45-foot chain and 2-inch blue steel rope. All work will be conducted in accordance with the attached Army Corps of Engineers permit.

#### Location of Proposed Installation –

The proposed mooring buoy would be located at center coordinates: Latitude: 20.7810N, Longitude: 156.4729W. The location is approximately 2,200 feet from the nearest shore.

#### Purpose of Proposed Installation –

The proposed mooring will be used by the Petitioner solely for the purpose of mooring a boat for commercial purposes.

#### Impact on Coastal Ecosystems-

**NEGLIGIBLE:** The proposed mooring site is 2,200 feet from the nearest shore and is not within the Special Management Area or Shoreline Setback Area, nor is the site within a State Conservation District. This site does not provide habitat for any known endangered species of plants, birds, or mammals. The site is not within, and does not boarder any National Area Reserve, Marine Conservation District, or estuary. The site is not on or close to any reef or coral colonies. No material will be placed or discharged in the project area. A MANTA RAY anchor will be utilized in order to protect the natural resources in the area. The MANTA RAY anchor is an environmentally friendly anchor system that installs easily under water with conventional equipment. No dredge or fill activities will be involved in the installation of the MANTA RAY mooring anchor. The mooring will be placed within an existing designated DLNR "Offshore" mooring area.

#### Impact on Marine Resources –

**NONE:** The proposed mooring does not involve or affect the use or development of any marine or coastal resources.

The Leilani Corporation  
Request for Exemption from EA Requirement/  
Approval for the Installation and Modification  
of an Existing Offshore Mooring  
Maalaea Bay, Maui

---

Impact on Historic Resources –

**NONE:** The project site is not within a designated historic or cultural district and has not been listed or nominated for the Hawaii or National Register of Historic Places. The proposed project site contains no known historic or archeological resources and is not within or adjacent to any Hawaiian fishpond or historic settlement area.

Impact on Scenic and Open Space Resources –

**NEGLIGIBLE:** A boat will be located at the proposed mooring location and will be visible. The mooring ball will be visible floating on the surface of the water.

Enclosure: Army Corps of Engineers Permit # POH-2017-193



**LEILANI CORPORATION**

The Harbor Shops at Ma'alaea | 300 Ma'alaea Road, Suite 211 | Wailuku, HI 96793 | Ph: 808-249-8811 | Fx: 808-243-9021



**DEPARTMENT OF THE ARMY**  
HONOLULU DISTRICT, U.S. ARMY CORPS OF ENGINEERS  
Building 230, CEPOH-RD  
FORT SHAFTER, HAWAII 96858-5440

SEP 29 2017

Regulatory Branch  
POH-2017-193

Leilani Corporation  
Attention: Marie Wigglesworth  
300 Maalaea Road, Suite 211  
Wailuku, Hawaii 96793

Dear Mr. Wigglesworth:

This is in response to your request for Department of the Army (DA) authorization to retain a commercial, 24-inch diameter mooring buoy, consisting of two manta anchors, two concrete blocks, two subsurface floats, and associated steel chain and rope. The project site is located at Latitude 20.780967° N., Longitude 156.4729° W., in Maalaea Bay, Wailuku, Maui, Hawaii. Please refer to file number POH-2017-193, Maalaea Bay, in correspondence with this office.

The mooring buoy is authorized under the nationwide permit (NWP) outlined below. DA permit authorization is necessary because your project is a structure in waters of the U.S. under our regulatory jurisdiction.

Based upon the information you provided, we hereby verify that the structure described above, in accordance with the enclosed plans, dated July 3, 2017, is authorized by NWP 9, Structures in Fleeting and Anchorage Areas. You must comply with all the Regional and General Conditions associated with this NWP, which are attached for your convenience. Nothing in this letter excuses you from compliance with other Federal, State, or local statutes, ordinances, or regulations.

Thank you for your cooperation with the Corps of Engineer's Regulatory Program. If you have any questions, please contact me via email at [jack.j.hewitt@usace.army.mil](mailto:jack.j.hewitt@usace.army.mil), in writing at the letterhead address, or by phone at (907) 753-2708. For additional information about our regulatory program, visit our web site at: [www.poh.usace.army.mil/Missions/Regulatory](http://www.poh.usace.army.mil/Missions/Regulatory).

Sincerely,

A handwritten signature in black ink, reading "Jack Hewitt", is positioned above the printed name and title.

Jack Hewitt  
Project Manager

Enclosures





**US Army Corps of Engineers  
Honolulu District**

Permit Number: POH-2017-193

Name of Permittee: Leilani Corporation

Date of Issuance: SEP 29 2017

Upon completion of the activity authorized by this permit and any mitigation required by the permit, sign this certification and return it to Jack Hewitt, at the following address:

U.S. Army Corps of Engineers  
Honolulu District, Regulatory Branch  
Building 230, CEPOH-RO  
Fort Shafter, Hawaii 96858-5440

Please note that your permitted activity is subject to a compliance inspection by an U.S. Army Corps of Engineers representative. If you fail to comply with this permit you are subject to permit suspension, modification, or revocation.

I hereby certify that the work authorized by the above-referenced permit has been completed in accordance with the terms and conditions of the said permit, and required mitigation was completed in accordance with the permit conditions.

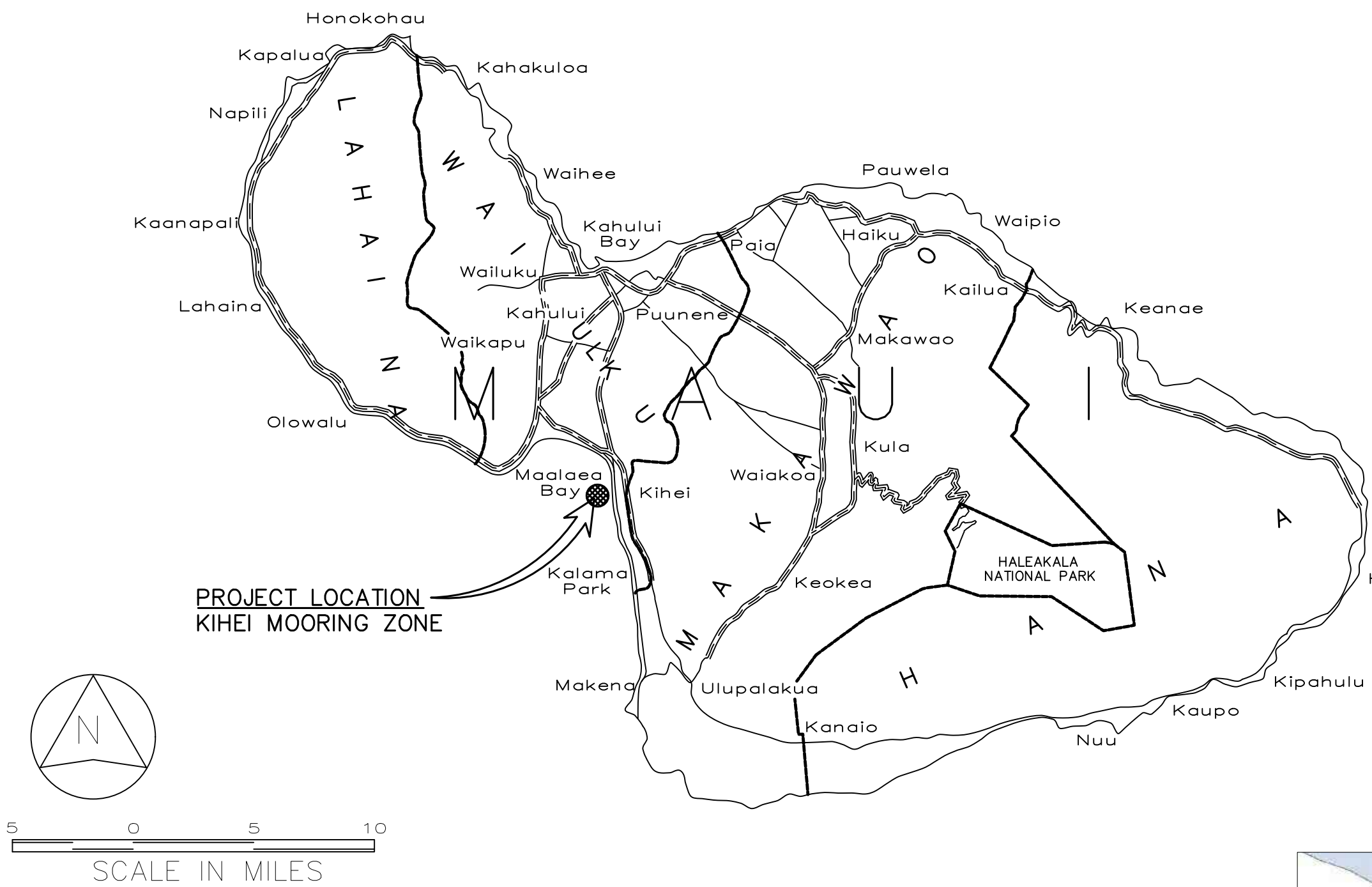
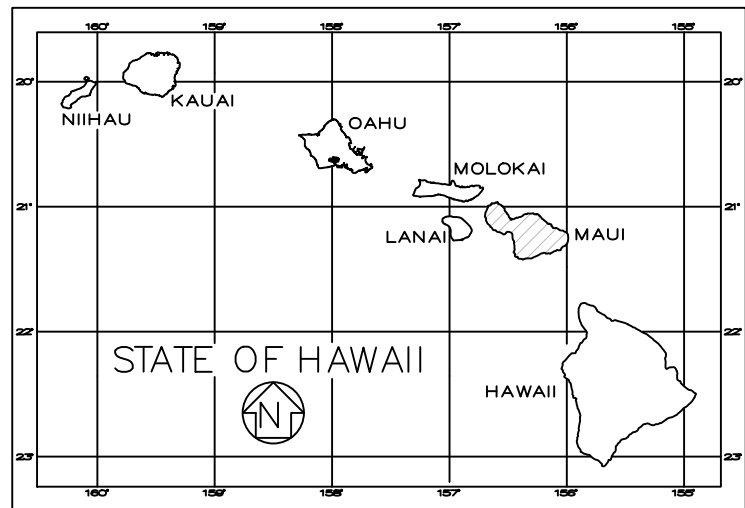
\_\_\_\_\_  
Signature of Permittee

\_\_\_\_\_  
Date

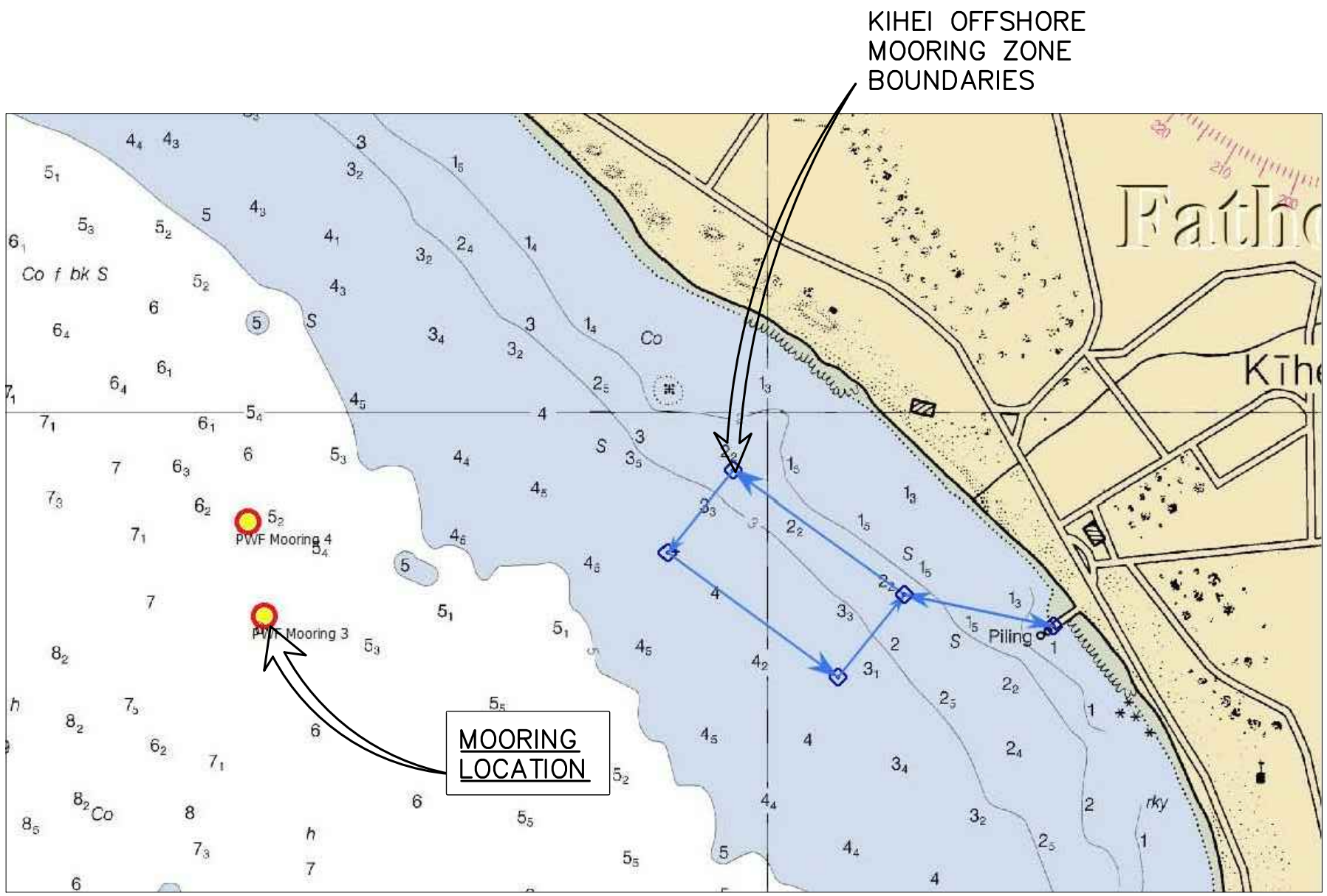


OFFSHORE MOORING - KIHAI MOORING ZONE
FOR: LEILANI CORPORATION

POINT OF CONTACT : KRISTIE WRIGGLESWORTH
GPS COORDINATES OF MOORING : 20.780967°N, 156.472900°W
APPROXIMATE WATER DEPTH : 37'



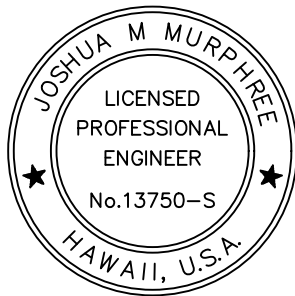
Department of Land and Natural Resources
Division of Boating and Ocean Recreation
PLAN REVIEW:
[Approved/Rejected] [Approved, as noted/Revise & Resubmit]
By: [Signature] Date: 7/25/17
Corrections, comments or approval of plans shall not relieve the contractor from other local, state, federal or other agency regulations or permit conditions. This review is for general conformance with engineering design guidelines. The contractor is responsible for confirming all dimensions, quantities, fabrication requirements, and coordination with all other trades.



LOCATION MAP

Table with 3 columns: SHEET NUMBER, DRAWING NUMBER, and DESCRIPTION. It lists the index to drawings, including the title, mooring plan, and swing circle.

PHREE CREATIONS, LLC.
61-655 KAMEHAMEHA HIGHWAY
HALEIWA, HAWAII 96712 • (808) 349-4990



Signature of Joshua M. Murphy
EXPIRATION DATE OF THE LICENSE 4/30/2018
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION

GENERAL NOTES
CONTRACTOR/OWNER/BUILDER SHALL CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS AT THE JOBSITE BEFORE PROCEEDING WITH THE WORK AND NOTIFY ENGINEER OF ANY DISCREPANCIES FOR RESOLUTION.
ALL CONSTRUCTION SHALL CONFORM TO THE 2006 INTERNATIONAL BUILDING CODE AND THE LATEST COUNTY OF MAUI/STATE OF HAWAII AMENDMENTS AND ORDINANCES AND/OR THE CITY AND COUNTY OF WHERE THIS PROJECT IS LOCATED AND HAVING JURISDICTION.

REVISION MARK • DATE • DESCRIPTION
PROJECT
PROPOSED OFFSHORE MOORING KIHAI MOORING ZONE FOR: LEILANI CORPORATION
CONTACT: KRISTIE WRIGGLESWORTH
300 MA'ALAEA RD., SUITE 211
WAILUKU HAWAII 96793
PHONE: (808) 208-3211
GPS COORDINATES: 20.780967°N 156.472900°W

SHEET TITLE
TITLE SHEET

JOB NO. 2015-0007.27C DRAWING NO. T-1
DRAWN JMM
CHECKED JMM
DATE JULY 3, 2017 SHEET 1 OF 3



GENERAL:

- A. WORKMANSHIP AND MATERIALS SHALL CONFORM TO THE BUILDING CODE AS STATED BELOW. HOWEVER, WHERE REFERENCE IS MADE TO PERFORMANCE CONFORMING TO OTHER STANDARDS THE MORE STRINGENT SHALL APPLY.
1. COUNTY OF MAUI: AMENDED IBC, 2006
- B. THE CONTRACTOR SHALL TAKE FIELD MEASUREMENTS AND VERIFY FIELD CONDITIONS AND SHALL COMPARE SUCH FIELD MEASUREMENTS AND CONDITIONS WITH THE DRAWINGS BEFORE COMMENCING WORK. REPORT IN WRITING TO THE ENGINEER ALL INCONSISTENCIES AND OMISSIONS.
- C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR METHODS OF CONSTRUCTION, WORKMANSHIP AND JOB SAFETY.
- D. DETAILS NOTED AS TYPICAL ON THE STRUCTURAL DRAWINGS SHALL APPLY IN ALL CONDITIONS UNLESS SPECIFICALLY SHOWN OR NOTED.
- E. PRODUCT DATA REQUIRED BY THESE NOTES SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.

DESIGN CRITERIA:

- A. MINIMUM DESIGN CRITERIA FOR MOORING IN ACCORDANCE WITH UFC 4-159-03:
1. TYPE IIB STORM MOORING
- B. WIND DESIGN DATA:
1. BASIC WIND SPEED: 105 MPH
- C. CURRENT:
1. MAX CURRENT: 1.5 KNOTS
- D. WAVES AND TIDAL VARIATIONS:
1. PEAK OFFSHORE WAVE HEIGHT: 8 FEET
- DESIGN VESSEL: "OCEAN DISCOVERY" OR SMALLER VESSEL
1. LENGTH: 70'-0"
2. WIDTH: 28'-0"
3. DRAFT: 8'-6"
4. WEIGHT: 67 NET TONS

\*MOORING IS DESIGNED FOR DESIGN VESSEL ONLY, ANY CHANGE IN MOORED VESSEL REQUIRES RE-ANALYSIS.

EARTH ANCHORS:

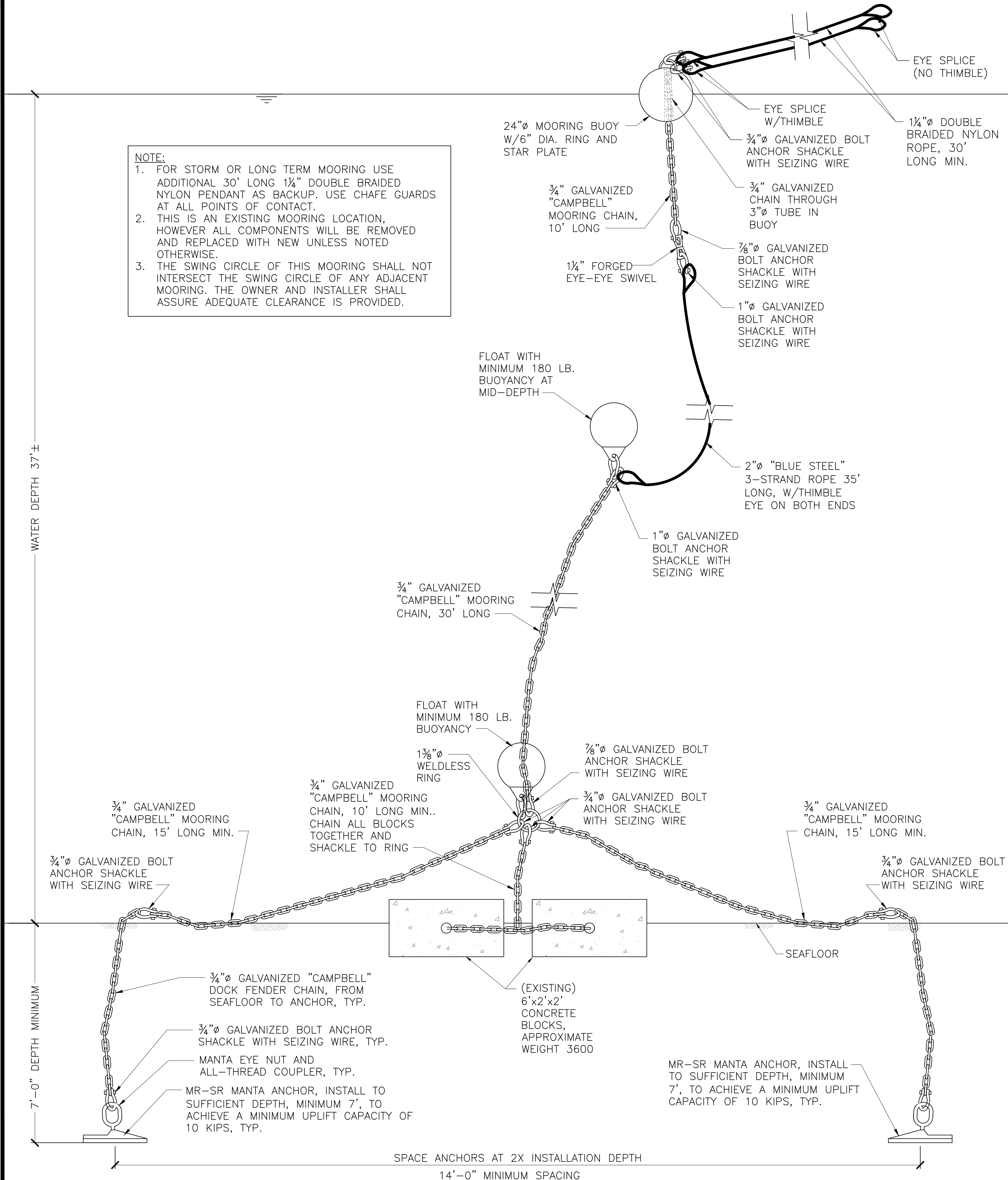
- A. SELECTION OF ANCHOR TYPE SHALL BE BASED UPON SURVEY SITE AND SOIL PROBING TO MINIMUM DEPTH OF 10' AT PROPOSED ANCHOR LOCATION. CONTRACTOR SHALL PROVIDE RESULTS OF SURVEY, SOIL PROBING, AND PROPOSED ANCHOR TYPE TO ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.
- B. INSTALL ANCHORS PER MANUFACTURERS INSTRUCTIONS. PROOF TEST TO MINIMUM UPLIFT CAPACITY STATED ON DESIGN DRAWINGS. SUBMIT DOCUMENTATION OF PROOF LOAD TESTING TO ENGINEER FOLLOWING INSTALLATION.
- C. MANTA ANCHORS SHALL NOT BE INSTALLED IN LOCATIONS WHERE SHIFTING SAND MAY RESULT IN REDUCED SOIL COVER OVER ANCHOR HEAD.

CHAIN, HARDWARE, ROPE, AND MOORING COMPONENTS

- A. ALL CHAIN AND HARDWARE SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM A153.
- B. THIMBLES OR CHAFE GUARDS SHALL BE USED WITH ROPES AT ALL POINTS OF CONTACT.
- C. SUBMIT PRODUCT DATA OF ALL CHAINS, HARDWARE, ROPE, AND MOORING COMPONENTS TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION.

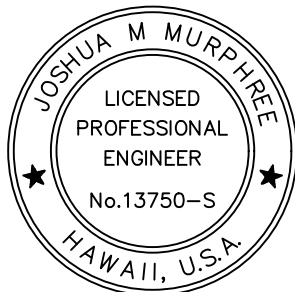
MOORING HARDWARE, MAINTENANCE AND INSPECTION

- A. THE VESSEL OWNER SHALL BE RESPONSIBLE FOR MAINTAINING THE VESSEL'S MOORING HARDWARE. ANY FAILURE RESULTING FROM NON MAINTAINED COMPONENTS OR UNREPAIRED DAMAGE OF THE MOORING RESULTING FROM NORMAL USE SHALL BE THE RESPONSIBILITY OF THE VESSEL OWNER.
- B. THE VESSEL OWNER SHALL INSPECT ALL MOORING HARDWARE, ROPES, AND CHAINS FROM SEA FLOOR TO PENDANT FOR SAFETY AND SECURITY NO LESS THAN TWO TIMES PER YEAR. INSPECTION REPORT/RECORDS SHALL BE KEPT BY VESSEL OWNER AND REPORTED TO HARBORMASTER/DLNR AS REQUIRED.
- C. THE VESSEL OWNER IS RESPONSIBLE FOR INSTALLING AND MAINTAINING CHAFING GEAR ON ALL MOORING LINES.



PHREE CREATIONS, LLC.

61-655 KAMEHAMEHA HIGHWAY  
HALEIWA, HAWAII 96712 • (808) 349-4990



EXPIRATION DATE OF THE LICENSE 4/30/2018  
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION

GENERAL NOTES

CONTRACTOR/OWNER/BUILDER SHALL CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS AT THE JOBSITE BEFORE PROCEEDING WITH THE WORK. AND NOTIFY ENGINEER OF ANY DISCREPANCIES FOR RESOLUTION.

ALL CONSTRUCTION SHALL CONFORM TO THE 2006 INTERNATIONAL BUILDING CODE AND THE LATEST COUNTY OF MAUI/STATE OF HAWAII AMENDMENTS AND ORDINANCES AND/OR THE CITY AND COUNTY OF WHERE THIS PROJECT IS LOCATED AND HAVING JURISDICTION.

REVISION MARK • DATE • DESCRIPTION

PROJECT

PROPOSED  
OFFSHORE MOORING  
KIHAI MOORING ZONE  
FOR:

LEILANI  
COORPORATION

CONTACT: KRISTIE WRIGGLESWORTH  
300 MA'ALAE RD., SUITE 211  
WAILUKU HAWAII 96793  
PHONE: (808) 208-3211

GPS COORDINATES: 20.780967°N  
156.472900°W

SHEET TITLE

MOORING PLAN

JOB NO. 2015-0007.27C

DRAWING NO.

DRAWN JMM

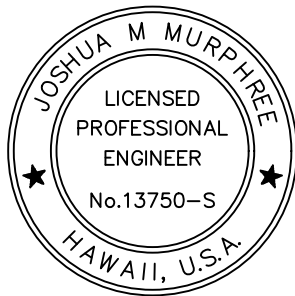
CHECKED JMM

DATE JULY 3, 2017

S-1

SHEET 2 OF 3

PHREE  
CREATIONS, LLC.  
61-655 KAMEHAMEHA HIGHWAY  
HALEIWA, HAWAII 96712 • (808) 349-4990



*JM*  
EXPIRATION DATE OF THE LICENSE 4/30/2018  
THIS WORK WAS PREPARED BY  
ME OR UNDER MY SUPERVISION  
AND CONSTRUCTION OF THIS PROJECT  
WILL BE UNDER MY OBSERVATION

GENERAL NOTES

CONTRACTOR/OWNER/BUILDER SHALL CHECK AND VERIFY ALL DIMENSIONS  
AND CONDITIONS AT THE JOBSITE BEFORE PROCEEDING WITH THE WORK.  
AND NOTIFY ENGINEER OF ANY DISCREPANCIES FOR RESOLUTION.

ALL CONSTRUCTION SHALL CONFORM TO THE 2006 INTERNATIONAL  
BUILDING CODE AND THE LATEST COUNTY OF MAUI/STATE OF HAWAII  
AMENDMENTS AND ORDINANCES AND/OR THE CITY AND COUNTY OF WHERE  
THIS PROJECT IS LOCATED AND HAVING JURISDICTION.

REVISION MARK • DATE • DESCRIPTION

PROJECT

PROPOSED  
OFFSHORE MOORING  
KIHEI MOORING ZONE  
FOR:  
LEILANI  
CORPORATION

CONTACT: KRISTIE WRIGGLESWORTH  
300 MA'ALAEA RD., SUITE 211  
WAILUKU HAWAII 96793  
PHONE: (808) 208-3211  
GPS COORDINATES: 20.780967°N  
156.472900°W

SHEET TITLE

SWING CIRCLE

JOB NO. 2015-0007.27C

DRAWING NO.

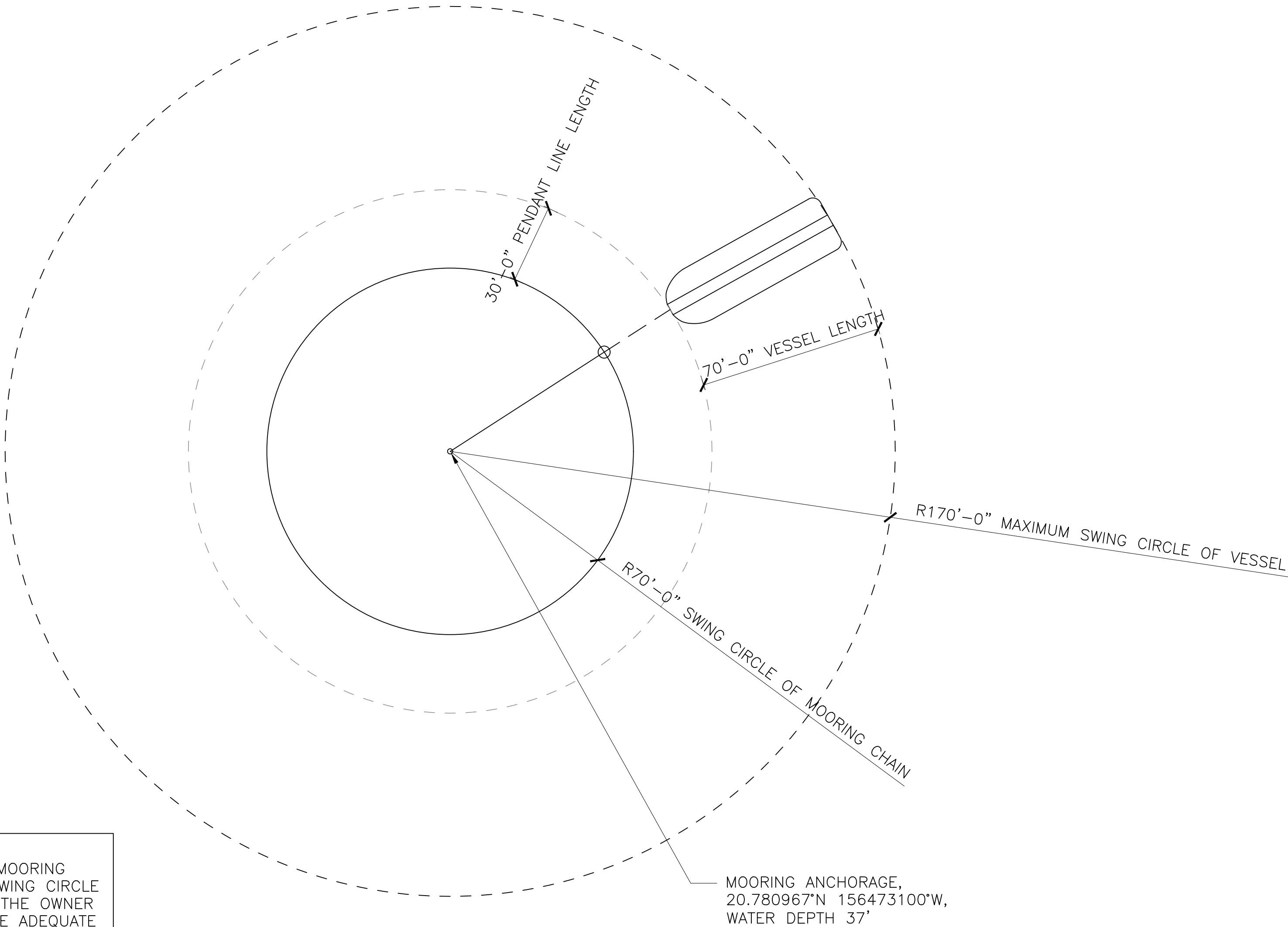
DRAWN JMM

CHECKED JMM

DATE JULY 3, 2017

S-2

SHEET 3 OF 3



NOTE:  
THE SWING CIRCLE OF THIS MOORING  
SHALL NOT INTERSECT THE SWING CIRCLE  
OF ANY ADJACENT MOORING. THE OWNER  
AND INSTALLER SHALL ASSURE ADEQUATE  
CLEARANCE IS PROVIDED.

SWING CIRCLE

SCALE: 1/32" = 1'-0"

---

January 4<sup>th</sup>, 2018

SUBMITTED TO:

Mr. Finn McCall

Board of Land & Natural Resources, State of Hawaii, Department of Land & Natural Resources (DLNR) Division of Boating and Ocean Recreation, 4 Sand Island Access Road, Honolulu, HI 96819

Email: finn.d.mccall@hawaii.gov

Phone: (808) 587-3520

SUBMITTED BY:

Unicorn Tours of Hawaii, Inc.

Attn: Kristie Wigglesworth

300 Maalaea Road, Suite 211

Wailuku, HI 96793

Ph: 808-208-3211

Submitted in compliance with Hawaii Revised Status Chapter 343 and HAR §§ 11-200-8; 11-200-8(b)

SUBJECT:

Request for Exemption from Requirement for Preparation of Environmental Assessment for and Approval for the Installation and Modification of an Existing Offshore Mooring within Lahaina Bay on the Island of Maui

REQUEST:

Kristie Wigglesworth (hereinafter referred to as "Petitioner") requests approval for installation and modification of an existing offshore mooring within Lahaina Bay and an exemption from the requirement for an environmental assessment report associated with the proposed mooring modification, as the proposed work will have little to no environmental impact, as discussed herein below:

Reasoning and Justification for Request of Environmental Assessment Exemption:

- 1) The reason for the Environmental Assessment is due to the use of State submerged lands
- 2) Petitioner requests exemption from requirement for an environmental assessment report associated with the proposed mooring modification, as the proposed installation of MR-SR manta marine anchors will have little or no impact on the environment in the proposed location.
- 3) The current exemption list for the Department of Land and Natural Resources dated June 5, 2015 provides as follows under Exemption Class 6: "13. Placement or construction of accessory structures such as ... mooring, cleats, bumpers, and mooring buoys, blocks and piles, and other similar structures accessory to existing facilities on state land and waters."

Project Description –

Modification of an existing private offshore mooring buoy in Lahaina Bay, Lahaina HI.

Technical Description of Proposed Installation –

The modification of the existing mooring anchoring system will be the retention of one mooring buoy comprised of one 2450-pound concrete block with two MR-SR manta marine anchors driven 7 to 8 feet into the sand bottom approximately 15 feet apart and 2 feet from the mooring block. The manta marine anchors are attached to the cement block via 3/4-inch galvanized mooring chains which are segmented at the surface and connected via 3/4-inch galvanized bolt-anchor-shackles and seizing wire. The dimensions for the concrete block are 4-linear feet in length

**UNICORN TOURS OF HAWAII, INC.**

Unicorn Tours of Hawaii, Inc.  
Request for Exemption from EA Requirement/  
Approval for the Installation and Modification  
of an Existing Offshore Mooring  
Lahaina Bay, Maui

---

by 14-inches in height by 3.5-linear feet in width. The anchor chains are wrapped around and connected at the center of the block which connect to the actual mooring chain via 3/4-inch and 7/8-inch galvanized bolt anchor shackles and seizing wire.

The mooring chain is 40-linear feet in length and connects to a 180-pound float via a 7/8-inch bolt-anchor-shackle with seizing wire. The float is connected to a 2-inch "blue steel" 3-strand rope approximately 60-linear feet in length with thimble eyes on both ends. The rope, in turn, connects to a 3/4-inch galvanized mooring chain via a 7/8-inch galvanized bolt-anchor-shackle and seizing wire which is connected by a 1 1/4-inch forged eye-to-eye swivel. The mooring chain is 10-linear feet in length and connects to a 24-inch mooring buoy. The mooring buoy has a 6-inch diameter ring and star-plate. The mooring chain threads through the center of the buoy and connects to the 6-inch ring on the buoy via a 3/4-inch bolt shackle and seizing wire. A 1 1/4-inch double braided nylon rope with two eye splices on each end also connects to the buoy via the 3/4-inch galvanized bolt shackle on the buoy. The total length of working chain and rope is approximately 140 feet. All work will be conducted in accordance with the attached Army Corps of Engineers permit.

Location of Proposed Installation –

The proposed mooring buoy would be located at center coordinates: Latitude: 20.8722N, Longitude: 156.6774W. The location is approximately 1,789 feet from the nearest shore.

Purpose of Proposed Installation –

The proposed mooring will be used by the Petitioner solely for the purpose of mooring a boat for commercial purposes.

Impact on Coastal Ecosystems-

**NEGLIGIBLE:** The proposed mooring site is 1,789 feet from the nearest shore and is not within the Special Management Area or Shoreline Setback Area, nor is the site within a State Conservation District. This site does not provide habitat for any known endangered species of plants, birds, or mammals. The site is not within, and does not boarder any National Area Reserve, Marine Conservation District, or estuary. The site is not on or close to any reef or coral colonies. No material will be placed or discharged in the project area. A MANTA RAY anchor will be utilized in order to protect the natural resources in the area. The MANTA RAY anchor is an environmentally friendly anchor system that installs easily under water with conventional equipment. No dredge or fill activities will be involved in the installation of the MANTA RAY mooring anchor. The mooring will be placed within an existing designated DLNR "Offshore" mooring area.

Impact on Marine Resources –

**NONE:** The proposed mooring does not involve or affect the use or development of any marine or coastal resources.

Impact on Historic Resources –

**NONE:** The project site is not within a designated historic or cultural district and has not been listed or nominated for the Hawaii or National Register of Historic Places. The proposed project site contains no known historic or archeological resources and is not within or adjacent to any Hawaiian fishpond or historic settlement area.

**UNICORN TOURS OF HAWAII, INC.**

The Harbor Shops at Ma'alaea | 300 Ma'alaea Road, Suite 211 | Wailuku, HI 96793 | Ph: 808-249-8811 | Fx: 808-243-9021

Unicorn Tours of Hawaii, Inc.  
Request for Exemption from EA Requirement/  
Approval for the Installation and Modification  
of an Existing Offshore Mooring  
Lahaina Bay, Maui

---

Impact on Scenic and Open Space Resources –

**NEGLIGIBLE:** A boat will be located at the proposed mooring location and will be visible. The mooring ball will be visible floating on the surface of the water.

Enclosure: Army Corps of Engineers Permit # POH-2017-190



**UNICORN TOURS OF HAWAII, INC.**

The Harbor Shops at Ma'alaea | 300 Ma'alaea Road, Suite 211 | Wailuku, HI 96793 | Ph: 808-249-8811 | Fx: 808-243-9021



**DEPARTMENT OF THE ARMY**  
HONOLULU DISTRICT, U.S. ARMY CORPS OF ENGINEERS  
FORT SHAFTER, HAWAII 96858-5440

NOV 28 2017

Regulatory Branch  
POH-2017-190

Unicorn Tours of Hawaii, Inc.  
Attention: Ms. Kristie Wigglesworth  
300 Maalaea Road, Suite 211  
Wailuku, Hawaii 96793

Dear Ms. Wigglesworth:

This is in response to your October 3, 2017, application for a Department of the Army (DA) permit, for the installation of a single point mooring buoy for a commercial vessel deployed in 56-foot deep water, approximately 1,789-linear feet from the shoreline in Lahaina Bay near Lahaina, Maui at 20.8722° N, 156.6774° W.

The existing mooring anchoring system is comprised of one 2450 pound concrete block with two space anchors installed approximately 7-linear feet below the seafloor. The space anchors are attached to the cement block via 3/4-inch galvanized mooring chains which are segmented at the surface and connected via 3/4-inch galvanized bolt-anchor-shackles and seizing wire. The dimensions for the concrete block are 4-linear feet in length by 14-inches in height by 3.5-linear feet in width. The anchor chains are wrapped around and connected at the center of the block which connect to the actual mooring chain via 3/4-inch and 7/8-inch galvanized bolt anchor shackles and seizing wire.

The mooring chain is 40-linear feet in length and connects to a 180-pound float via a 7/8-inch bolt-anchor-shackle with seizing wire. The float is connected to a 2-inch "blue steel" 3-strand rope approximately 60-linear feet in length with thimble eyes on both ends. The rope, in turn, connects to a 3/4-inch galvanized mooring chain via a 7/8-inch galvanized bolt-anchor-shackle and seizing wire which is connected by a 1%-inch forged eye-to-eye swivel. The mooring chain is 10-linear feet in length and connects to a 24-inch mooring buoy. The mooring buoy has a 6-inch diameter ring and star-plate. The mooring chain threads through the center of the buoy and connects to the 6-inch ring on the buoy via a 3/4-inch bolt shackle and seizing wire. A 1%-inch double braided nylon rope with two eye splices on each end also connects to the buoy via the 3/4-inch galvanized bolt shackle on the buoy. The total length of working chain and rope is approximately 140 feet.

DEC 05 2017

ENGINEERING DEPT



DA permit authorization is necessary because your project would involve placement of structures into waters of the U.S. under our regulatory jurisdiction.

Based upon the information and plans you provided, we hereby verify that the work described above, which would be performed in accordance with the enclosed plan (sheets 1-3), dated July 3, 2017, is authorized by Nationwide Permit (NWP) No. 9, Structures in Fleeting and Anchorage Areas. NWP No. 9 and its associated Regional and General Conditions can be accessed at our website at: [www.poa.usace.army.mil/Missions/Regulatory/Permits](http://www.poa.usace.army.mil/Missions/Regulatory/Permits). You must comply with all terms and conditions associated with NWP No. 9.

Further, please note General Condition 30 requires that you submit a signed certification to us once any work and required mitigation are completed. Enclosed is the form for you to complete and return to us.

Unless this NWP is modified or revoked, it expires on March 19, 2022. It is incumbent upon you to remain informed of the changes to the NWPs. Nothing in this letter excuses you from compliance with other Federal, State, or local statutes, ordinances, or regulations.


Please contact me via email at [Tunis.W.McElwain@usace.army.mil](mailto:Tunis.W.McElwain@usace.army.mil), by mail at the address above or by phone at (808) 835-4303 if you have questions. For more information about the Regulatory Program, please visit our website at [www.poh.usace.army.mil/Missions/Regulatory](http://www.poh.usace.army.mil/Missions/Regulatory).

Sincerely,

**MCELWAIN.TUN**

**S.W.1239553008**

Tunis W. McElwain  
Chief, Regulatory Branch  
Honolulu District

 DN: c=US, o=U.S. Government, ou=DoD, ou=PKI,  
ou=USA, cn=MCELWAIN.TUNIS.W.1239553008  
Date: 2017.11.28 14:35:38 -10'00'

Enclosures

1. Certification
2. Project Plans 1-3



**US Army Corps of Engineers  
Honolulu District**

Permit Number: POH-2017-190

Name of Permittee: Unicorn Tours of Hawaii, Inc.

Date of Issuance: NOV 2 8

Upon completion of the activity authorized by this permit and any mitigation required by the permit, sign this certification and return it to Mr. Tunis W. McElwain at the following address:

U.S. Army Corps of Engineers  
Honolulu District, Regulatory Branch  
Fort Shafter, Hawaii 96858-5440

Please note that your permitted activity is subject to a compliance inspection by an U.S. Army Corps of Engineers representative. If you fail to comply with this permit you are subject to permit suspension, modification, or revocation.

I hereby certify that the work authorized by the above-referenced permit has been completed in accordance with the terms and conditions of the said permit, and required mitigation was completed in accordance with the permit conditions.

\_\_\_\_\_  
Signature of Permittee

\_\_\_\_\_  
Date

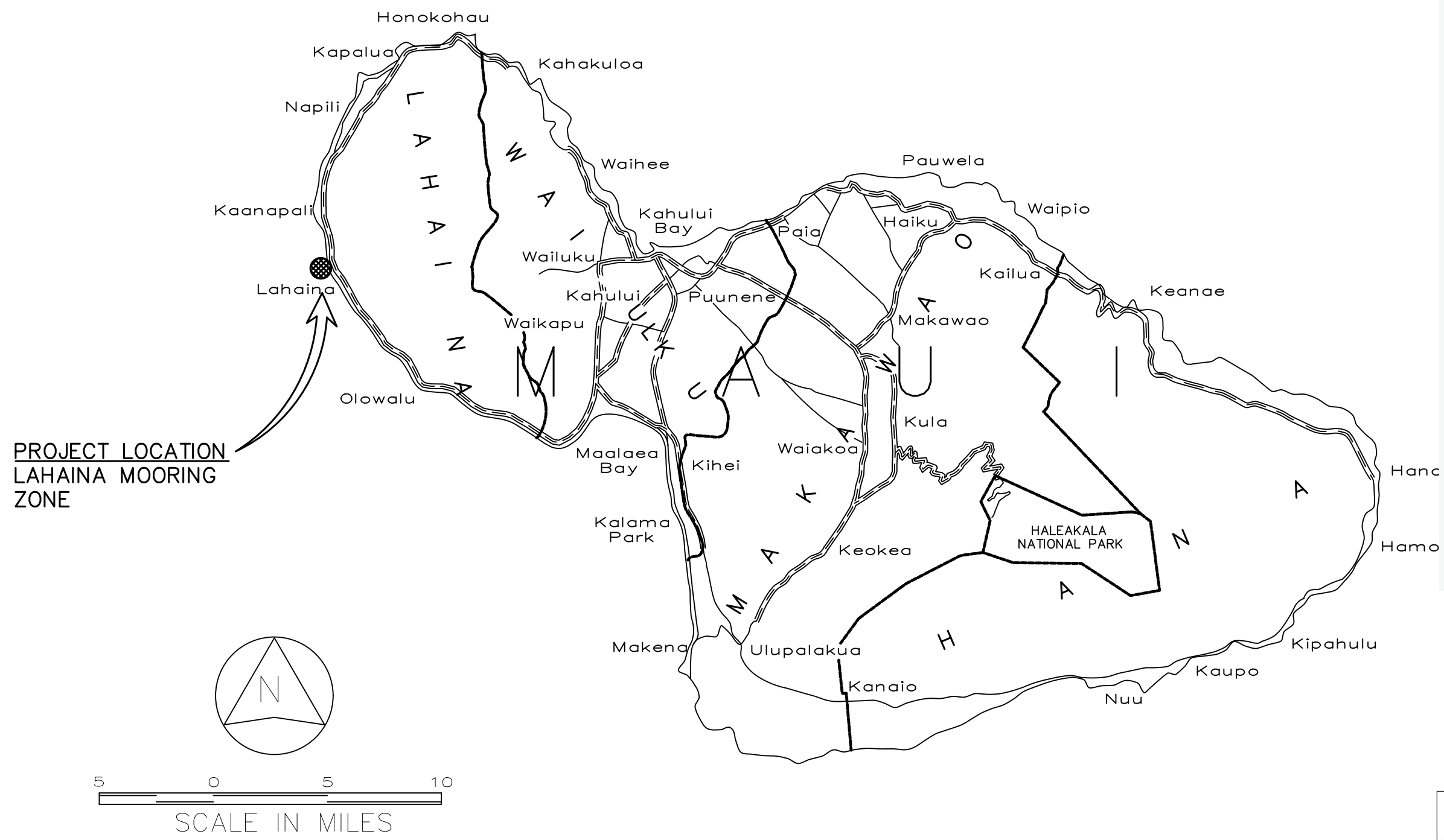
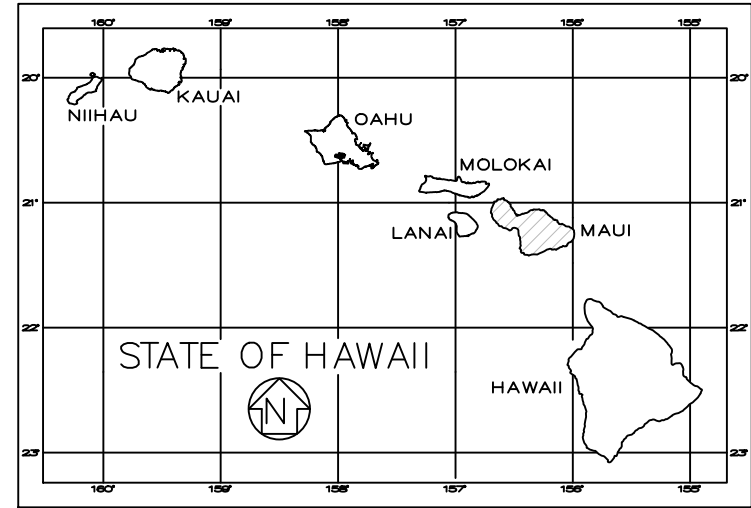


# OFFSHORE MOORING - LAHAINA MOORING ZONE

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## FOR: UNICORN TOURS OF HAWAII, INC.

POINT OF CONTACT : KRISTIE WRIGGLESWORTH  
GPS COORDINATES OF MOORING : 20.867433°N, 156.681550°W  
APPROXIMATE WATER DEPTH : 56'

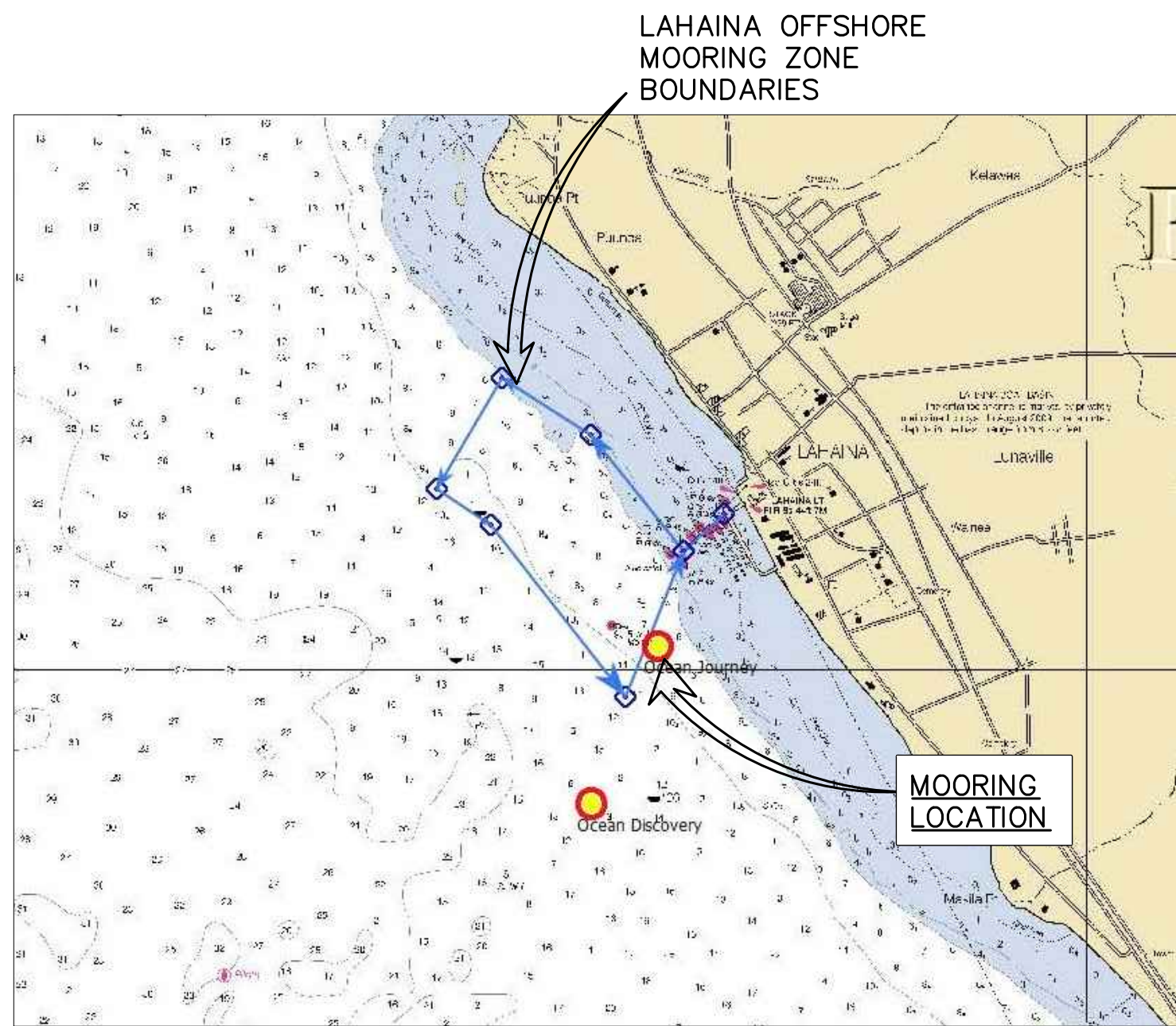


**Department of Land and Natural Resources**  
**Division of Boating and Ocean Recreation**  
**PLAN REVIEW:**

☒ Approved  
☐ Rejected

**By:** \_\_\_\_\_ **Date:** 7/25/17

**Corrections, comments or approval of plans shall not relieve the contractor from other local, state, federal or other agency regulations or permit conditions. This review is for general conformance with engineering design guidelines. The contractor is responsible for confirming all dimensions, quantities, fabrication requirements, and coordination with all other trades.**



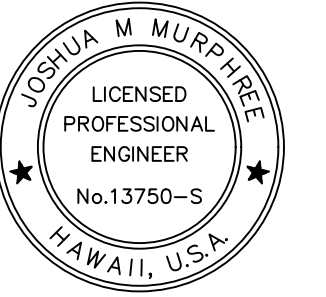
### LOCATION MAP

## INDEX TO DRAWINGS

SHEET NUMBER	DRAWING NUMBER	DESCRIPTION
1	T-1	TITLE, INDEX TO DRAWINGS, AND VICINITY MAP
2	S-1	MOORING PLAN
3	S-2	SWING CIRCLE

PHREE  
CREATIONS, LLC.

61-655 KAMEHAMEHA HIGHWAY  
HALEIWA, HAWAII 96712 • (808) 349-4990



EXPIRATION DATE OF THE LICENSE 4/30/2018  
THIS WORK WAS PREPARED BY  
ME OR UNDER MY SUPERVISION  
AND CONSTRUCTION OF THIS PROJECT  
WILL BE UNDER MY OBSERVATION

## GENERAL NOTES

CONTRACTOR/OWNER BUILDER SHALL CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS AT THE JOBSITE BEFORE PROCEEDING WITH THE WORK AND NOTIFY ENGINEER OF ANY DISCREPANCIES FOR RESOLUTION.

ALL CONSTRUCTION SHALL CONFORM TO THE 2006 INTERNATIONAL BUILDING CODE AND THE LATEST COUNTY OF MAUI/STATE OF HAWAII AMENDMENTS AND ORDINANCES AND/OR THE CITY AND COUNTY OF WHERE THIS PROJECT IS LOCATED AND HAVING JURISDICTION.

REVISION	MARK	•	DATE	•	DESCRIPTION
----------	------	---	------	---	-------------

PROPOSED  
OFFSHORE MOORING  
LAHAINA MOORING ZONE  
FOR:  
UNICORN TOURS  
OF HAWAII, INC.

CONTACT: KRISTIE WRIGGLESWORTH  
300 MA'ALAEA RD., SUITE 211  
WAILUKU HAWAII 96793  
PHONE: (808) 208-3211  
GPS COORDINATES: 20.867433°N  
156.681550°W

SHEET TITLE

# TITLE SHEET

JOB NO. 2015-0007.27A      DRAWING NO.

DRAWN JMM T 1

CHECKED JMM

DATE JULY 3, 2017 SHEET 1 OF 3



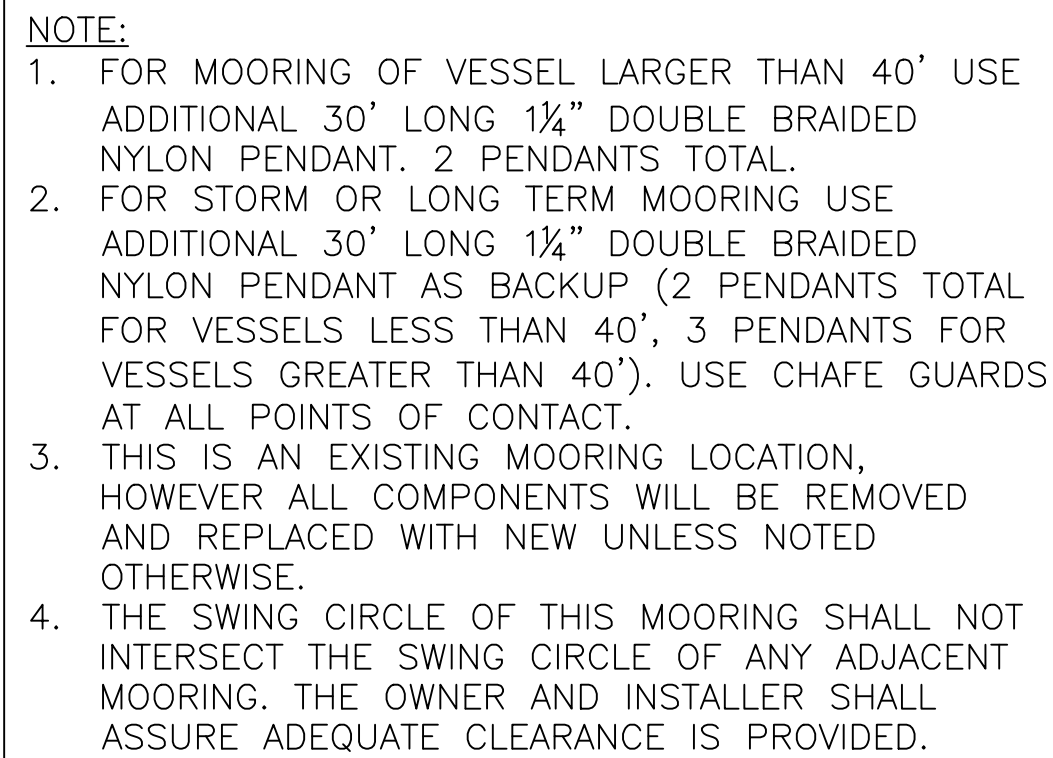
- A. WORKMANSHIP AND MATERIALS SHALL CONFORM TO THE BUILDING CODE AS STATED BELOW. HOWEVER, WHERE REFERENCE IS MADE TO PERFORMANCE CONFORMING TO OTHER STANDARDS THE MORE STRINGENT SHALL APPLY.
  - 1. COUNTY OF MAUI: AMENDED IBC, 2006
- B. THE CONTRACTOR SHALL TAKE FIELD MEASUREMENTS AND VERIFY FIELD CONDITIONS AND SHALL COMPARE SUCH FIELD MEASUREMENTS AND CONDITIONS WITH THE DRAWINGS BEFORE COMMENCING WORK. REPORT IN WRITING TO THE ENGINEER ALL INCONSISTENCIES AND OMISSIONS.
- C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR METHODS OF CONSTRUCTION, WORKMANSHIP AND JOB SAFETY.
- D. DETAILS NOTED AS TYPICAL ON THE STRUCTURAL DRAWINGS SHALL APPLY IN ALL CONDITIONS UNLESS SPECIFICALLY SHOWN OR NOTED.
- E. PRODUCT DATA REQUIRED BY THESE NOTES SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.

- A. MINIMUM DESIGN CRITERIA FOR MOORING IN ACCORDANCE WITH UFC 4-159-03:
  - 1. TYPE IIB STORM MOORING
- B. WIND DESIGN DATA:
  - 1. BASIC WIND SPEED: 105 MPH
- C. CURRENT:
  - 1. MAX CURRENT: 1.5 KNOTS
- D. WAVES AND TIDAL VARIATIONS:
  - 1. PEAK OFFSHORE WAVE HEIGHT: 8 FEET

1. LENGTH: 70'-0"
2. WIDTH: 28'-0"
3. DRAFT: 8'-6"
4. WEIGHT: 67 NET

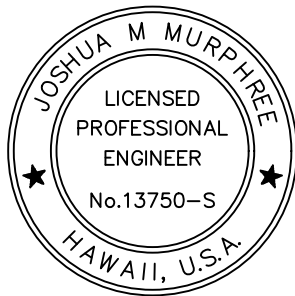
- A. SELECTION OF ANCHOR TYPE SHALL BE BASED UPON SURVEY SITE AND SOIL PROBING TO MINIMUM DEPTH OF 10' AT PROPOSED ANCHOR LOCATION. CONTRACTOR SHALL PROVIDE RESULTS OF SURVEY, SOIL PROBING, AND PROPOSED ANCHOR TYPE TO ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.
- B. INSTALL ANCHORS PER MANUFACTURERS INSTRUCTIONS. PROOF TEST TO MINIMUM UPLIFT CAPACITY STATED ON DESIGN DRAWINGS. SUBMIT DOCUMENTATION OF PROOF LOAD TESTING TO ENGINEER FOLLOWING INSTALLATION.
- C. MANTA ANCHORS SHALL NOT BE INSTALLED IN LOCATIONS WHERE SHIFTING SAND MAY RESULT IN REDUCED SOIL COVER OVER ANCHOR HEAD.

- A. THE VESSEL OWNER SHALL BE RESPONSIBLE FOR MAINTAINING THE VESSEL'S MOORING HARDWARE. ANY FAILURE RESULTING FROM NON MAINTAINED COMPONENTS OR UNREPAIRED DAMAGE OF THE MOORING RESULTING FROM NORMAL USE SHALL BE THE RESPONSIBILITY OF THE VESSEL OWNER.
- B. THE VESSEL OWNER SHALL INSPECT ALL MOORING HARDWARE, ROPES, AND CHAINS FROM SEA FLOOR TO PENDANT FOR SAFETY AND SECURITY NO LESS THAN TWO TIMES PER YEAR. INSPECTION REPORT/RECORDS SHALL BE KEPT BY VESSEL OWNER AND REPORTED TO HARBORMASTER/DLNR AS REQUIRED.
- C. THE VESSEL OWNER IS RESPONSIBLE FOR INSTALLING AND MAINTAINING CHAFING GEAR ON ALL MOORING LINES.



DATE JULY 3, 2017 SHEET 2 OF 3

PHREE  
CREATIONS, LLC.  
61-655 KAMEHAMEHA HIGHWAY  
HALEIWA, HAWAII 96712 • (808) 349-4990



*[Signature]*  
EXPIRATION DATE OF THE LICENSE 4/30/2018  
THIS WORK WAS PREPARED BY  
ME OR UNDER MY SUPERVISION  
AND CONSTRUCTION OF THIS PROJECT  
WILL BE UNDER MY OBSERVATION

GENERAL NOTES

CONTRACTOR/OWNER/BUILDER SHALL CHECK AND VERIFY ALL DIMENSIONS  
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AMENDMENTS AND ORDINANCES AND/OR THE CITY AND COUNTY OF WHERE  
THIS PROJECT IS LOCATED AND HAVING JURISDICTION.

REVISION MARK • DATE • DESCRIPTION

PROJECT

PROPOSED  
OFFSHORE MOORING  
LAHAINA MOORING ZONE  
FOR:

UNICORN TOURS  
OF HAWAII, INC.

CONTACT: KRISTIE WRIGGLESWORTH  
300 MA'ALAE RD., SUITE 211  
WAILUKU HAWAII 96793  
PHONE: (808) 208-3211

GPS COORDINATES: 20.867433°N  
156.681550°W

SHEET TITLE

SWING CIRCLE

JOB NO. 2015-0007.27A DRAWING NO.

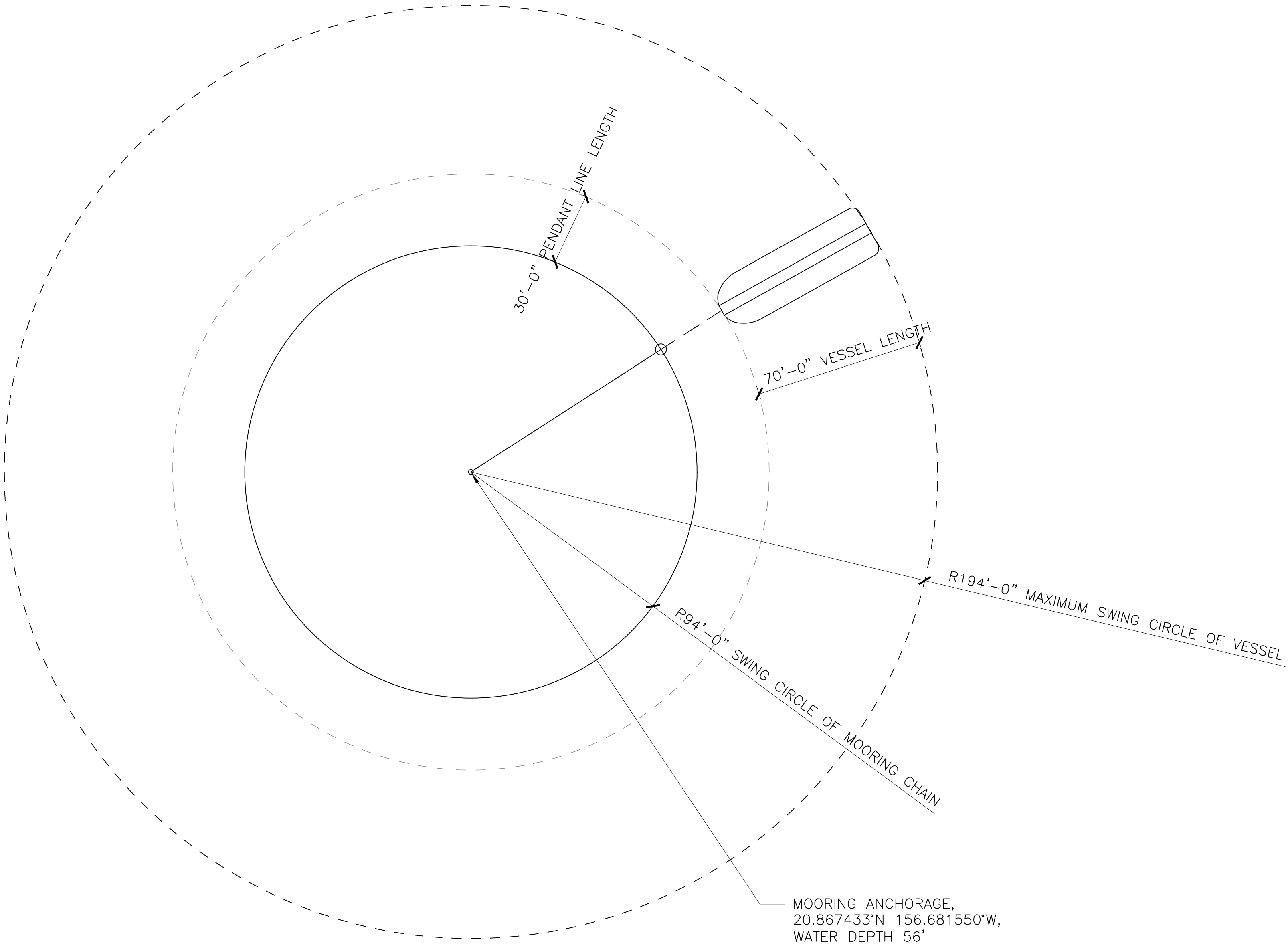
DRAWN JMM

CHECKED JMM

DATE JULY 3, 2017

S-2

SHEET 3 OF 3



SWING CIRCLE

SCALE: 1/32" = 1'-0"

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January 4<sup>th</sup>, 2018

SUBMITTED TO:

Mr. Finn McCall

Board of Land & Natural Resources, State of Hawaii, Department of Land & Natural Resources (DLNR) Division of Boating and Ocean Recreation, 4 Sand Island Access Road, Honolulu, HI 96819

Email: finn.d.mccall@hawaii.gov

Phone: (808) 587-3520

SUBMITTED BY:

Four-Island Ocean Adventures Inc.

Attn: Kristie Wigglesworth

300 Maalaea Road, Suite 211

Wailuku, HI 96793

Ph: 808-208-3211

Submitted in compliance with Hawaii Revised Status Chapter 343 and HAR §§ 11-200-8; 11-200-8(b)

SUBJECT:

Request for Exemption from Requirement for Preparation of Environmental Assessment for and Approval for the Installation and Modification of an Existing Offshore Mooring within Lahaina Harbor on the Island of Maui

REQUEST:

Kristie Wigglesworth (hereinafter referred to as "Petitioner") requests approval for installation and modification of an existing offshore mooring within Lahaina Harbor and an exemption from the requirement for an environmental assessment report associated with the proposed mooring modification, as the proposed work will have little to no environmental impact, as discussed herein below:

Reasoning and Justification for Request of Environmental Assessment Exemption:

- 1) The reason for the Environmental Assessment is due to the use of State submerged lands
- 2) Petitioner requests exemption from requirement for an environmental assessment report associated with the proposed mooring modification, as the proposed installation of two MR-SR manta marine anchors will have little or no impact on the environment in the proposed location.
- 3) The current exemption list for the Department of Land and Natural Resources dated June 5, 2015 provides as follows under Exemption Class 6: "13. Placement or construction of accessory structures such as ... mooring, cleats, bumpers, and mooring buoys, blocks and piles, and other similar structures accessory to existing facilities on state land and waters."

Project Description –

Modification of an existing private offshore mooring buoy in Lahaina Harbor, Lahaina HI.

Technical Description of Proposed Installation –

The modification of the existing mooring will be the retention of one mooring buoy comprised of two concrete blocks, weighing 3600- and 1200-pounds (lbs.), and a 150 lb. Danforth anchor set in sand. A nearby abandoned concrete block will be relocated to the mooring and attached to the existing blocks. Two MR-SR manta marine anchors are to be driven 7 to 8 feet into the sand bottom approximately 15 feet apart and 2 feet from the mooring blocks. There is a 3/4-inch galvanized Campbell dock fender chain from the seafloor to the manta anchor attached

**FOUR-ISLAND OCEAN ADVENTURES INC.**

with a 7/8-inch galvanized bolt anchor shackle and seizing wire. The other end of the manta anchor chain is shackled with a 7/8-inch galvanized bolt anchor shackle with seizing wire and a 3/4-inch galvanized Campbell mooring chain that is 15 feet long.

The two 15-foot long chains are shackled to a 1 3/8-inch weldless ring by a 7/8-inch galvanized bolt anchor shackle with seizing wire. The 3/4-inch galvanized Campbell mooring chain, which is 15 feet long, chains all of the blocks together and is shackled to the ring. Going to the surface, there is a 3/4-inch galvanized Campbell mooring chain that is 45 feet long that is shackled with a 7/8-inch galvanized bolt anchor shackle with seizing wire to 2-inch blue steel 3-strand rope that is 45 feet long with thimble eyes at both ends. The 2-inch blue steel 3-strand rope is shackled with a 7/8-inch galvanized bolt anchor shackle with seizing wire and is attached to a 1 and 1/4-inch forged eye swivel. The eye swivel is shackled with a 7/8-inch galvanized bolt anchor shackle with seizing wire to a 3/4-inch galvanized Campbell mooring chain that is 10 feet long. The 10-foot long chain goes through a 3-inch tube in the buoy. The buoy is a 24-inch mooring buoy. The top of the mooring buoy has two 1 and 1/4-inch double braided nylon ropes that are 30 feet long with eye splice at both ends. The chain is suspended and floating with two float balls, buoyancy of 180 lbs. each. One is attached at the weld less ring and one is attached at the shackle point of the 45-foot chain and 2-inch blue steel rope. All work will be conducted in accordance with the attached Army Corps of Engineers permit.

#### Location of Proposed Installation –

The proposed mooring buoy would be located at center coordinates: Latitude: 20.8623N, Longitude: 156.6839W. The location is approximately 2,500 feet from the nearest shore.

#### Purpose of Proposed Installation –

The proposed mooring will be used by the Petitioner solely for the purpose of mooring a boat for commercial purposes.

#### Impact on Coastal Ecosystems-

**NEGLIGIBLE:** The proposed mooring site is 2,500 feet from the nearest shore and is not within the Special Management Area or Shoreline Setback Area, nor is the site within a State Conservation District. This site does not provide habitat for any known endangered species of plants, birds, or mammals. The site is not within, and does not boarder any National Area Reserve, Marine Conservation District, or estuary. The site is not on or close to any reef or coral colonies. No material will be placed or discharged in the project area. A MANTA RAY anchor will be utilized in order to protect the natural resources in the area. The MANTA RAY anchor is an environmentally friendly anchor system that installs easily under water with conventional equipment. No dredge or fill activities will be involved in the installation of the MANTA RAY mooring anchor. The mooring will be placed within an existing designated DLNR "Offshore" mooring area.

#### Impact on Marine Resources –

**NONE:** The proposed mooring does not involve or affect the use or development of any marine or coastal resources.

Four-Island Ocean Adventures Inc.  
Request for Exemption from EA Requirement/  
Approval for the Installation and Modification  
of an Existing Offshore Mooring  
Lahaina Harbor, Maui

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Impact on Historic Resources –

**NONE:** The project site is not within a designated historic or cultural district and has not been listed or nominated for the Hawaii or National Register of Historic Places. The proposed project site contains no known historic or archeological resources and is not within or adjacent to any Hawaiian fishpond or historic settlement area.

Impact on Scenic and Open Space Resources –

**NEGLIGIBLE:** A boat will be located at the proposed mooring location and will be visible. The mooring ball will be visible floating on the surface of the water.

Enclosure: Army Corps of Engineers Permit # POH-2017-191



**FOUR-ISLAND OCEAN ADVENTURES INC.**

The Harbor Shops at Ma'alaea | 300 Ma'alaea Road, Suite 211 | Wailuku, HI 96793 | Ph: 808-249-8811 | Fx: 808-243-9021





**DEPARTMENT OF THE ARMY**  
HONOLULU DISTRICT, U.S. ARMY CORPS OF ENGINEERS  
FORT SHAFTER, HAWAII 96858-5440

December 5, 2017

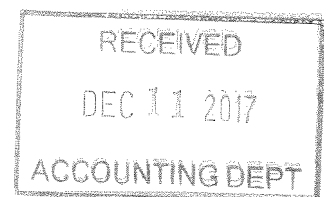
Regulatory Branch  
POH-2017-191

Four-Island Ocean Adventures Inc.  
Attention: Ms. Kristie Wrigglesworth  
300 Maalaea Road, Suite 211  
Wailuku, Hawaii 96793

Dear Ms. Wrigglesworth:

This is in response to your September 14, 2017, application on behalf of Four-Island Ocean Adventures, Inc. for a Department of the Army (DA) permit, in order to retain one mooring buoy comprised of two concrete blocks, weighing 3600- and 1200-pounds (lbs)., and a 150 lb. danforth anchor set in sand. A nearby abandoned concrete block was relocated to the mooring and attached to the existing blocks. Two MR-SR manta marine anchors are driven 7 to 8 feet into the sand bottom approximately 15 feet apart and 2 feet from the mooring blocks. There is a 1/2-inch galvanized campbell dock fender chain from the seafloor to the manta anchor attached with a 1/2-inch galvanized bolt anchor shackle and seizing wire. The other end of the manta anchor chain is shackled with a 1/2-inch galvanized bolt anchor shackle with seizing wire and a 1/2-inch galvanized campbell mooring chain that is 15 feet long.

The two 15 foot long chains are shackled to a 1 3/8-inch weldless ring by a 1/2-inch galvanized bolt anchor shackle with seizing wire. The 1/2-inch galvanized campbell mooring chain, which is 15 feet long, chains all of the blocks together and is shackled to the ring. Going to the surface, there is a 1/2-inch galvanized campbell mooring chain that is 45 feet long that is shackled with a 7/8-inch galvanized bolt anchor shackle with seizing wire to 2-inch blue steel 3-strand rope that is 45 feet long with thimble eyes at both ends. The 2-inch blue steel 3-strand rope is shackled with a 7/8-inch galvanized bolt anchor shackle with seizing wire and is attached to a 1 and 1/2-inch forged eye swivel. The eye swivel is shackled with a 7/8-inch galvanized bolt anchor shackle with seizing wire to a 1/2-inch galvanized campbell mooring chain that is 10 feet long. The 10-foot long chain goes through a 3-inch tube in the buoy. The buoy is a 24-inch mooring buoy. The top of the mooring buoy has two 1 and 1/2-inch double braided nylon ropes that are 30 feet long with eye splice at both ends. The chain is suspended and floating with two float balls, buoyancy of 180 lbs each. One is attached at the weldless ring and one is attached at the shackle point of the 45-foot chain and 2-inch blue steel rope.



The project has been assigned file number POH-2017-191, Lahaina Harbor, which should be referred to in all future correspondence with this office. The project site is located within approximately 2,500 feet from the shoreline in Offshore Lahaina Harbor near Lahaina, Island of Maui at 20.8623° N, 156.6839° W.; near Lahaina, Hawaii.

DA permit authorization is necessary because your project involves of structures waters of the U.S. under our regulatory jurisdiction.

Based upon the information and plans you provided, we hereby verify that the mooring buoy shown on the plans (sheets 1-3), dated July 3, 2017, is authorized by Nationwide Permit (NWP) No. 9, Structures in Fleeting and Anchorage Areas. NWP No. 9 and its associated Regional and General Conditions can be accessed at our website at [www.poa.usace.army.mil/Missions/Regulatory/Permits](http://www.poa.usace.army.mil/Missions/Regulatory/Permits). You must comply with all terms and conditions associated with NWP No. 9.

Unless this NWP is modified or revoked, it expires on March 19, 2022. It is incumbent upon you to remain informed of the changes to the NWPs. Nothing in this letter excuses you from compliance with other Federal, State, or local statutes, ordinances, or regulations.

Please contact me via email at [Tunis.W.McElwain@usace.army.mil](mailto:Tunis.W.McElwain@usace.army.mil), by mail at the address above or by phone at (808) 835-4300 if you have questions. For more information about the Regulatory Program, please visit our website at [www.poh.usace.army.mil/Missions/Regulatory](http://www.poh.usace.army.mil/Missions/Regulatory)

Sincerely,

**MCELWAIN**  
TUNIS.W.1  
239553008

Tunis W. McElwain  
Chief, Regulatory Branch  
Honolulu District

Enclosures



**US Army Corps of Engineers  
Honolulu District**

Permit Number: POH-2017-191

Name of Permittee: Four-Island Ocean Adventures Inc.

Date of Issuance: December 5, 2017

Upon completion of the activity authorized by this permit and any mitigation required by the permit, sign this certification and return it to Mr. Tunis McElwain at the following address:

U.S. Army Corps of Engineers  
Honolulu District, Regulatory Branch  
Fort Shafter, Hawaii 96858-5440

Please note that your permitted activity is subject to a compliance inspection by an U.S. Army Corps of Engineers representative. If you fail to comply with this permit you are subject to permit suspension, modification, or revocation.

I hereby certify that the work authorized by the above-referenced permit has been completed in accordance with the terms and conditions of the said permit, and required mitigation was completed in accordance with the permit conditions.

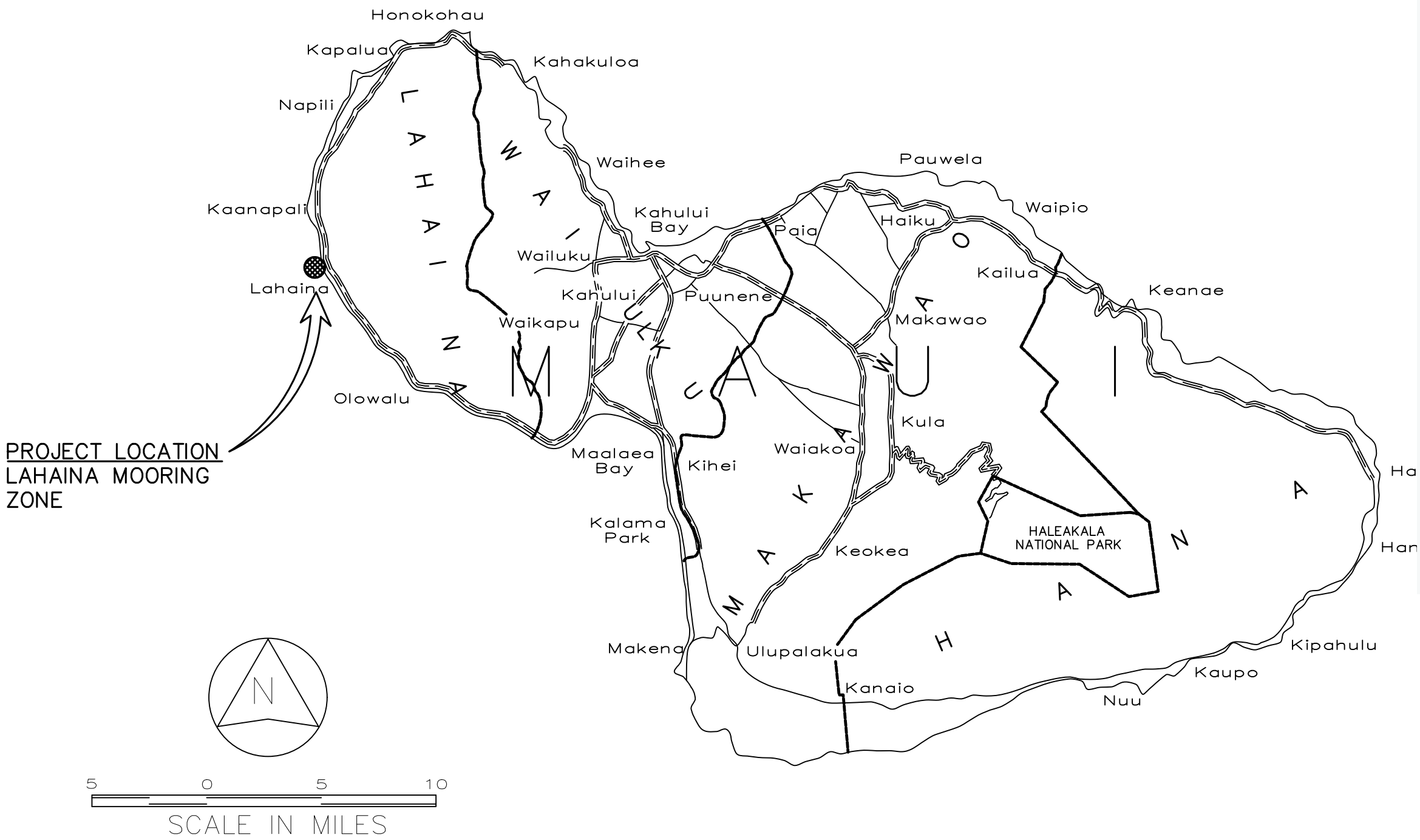
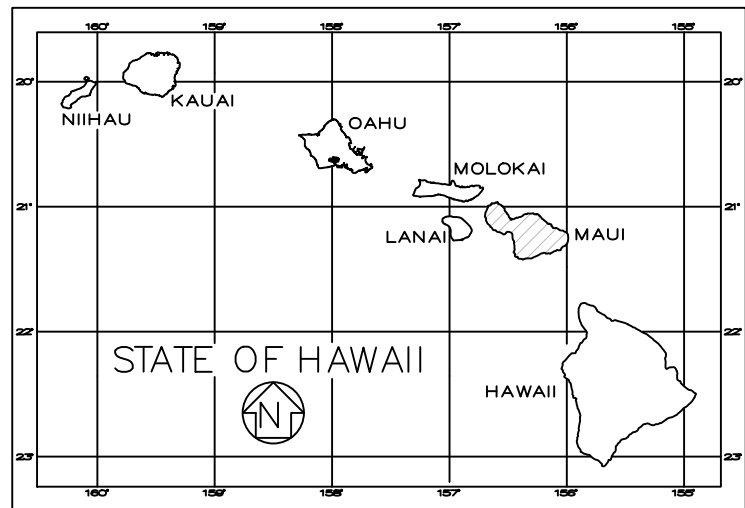
\_\_\_\_\_  
Signature of Permittee

\_\_\_\_\_  
Date



# OFFSHORE MOORING - LAHAINA MOORING ZONE FOR: FOUR-ISLAND OCEAN ADVENTURES, INC.

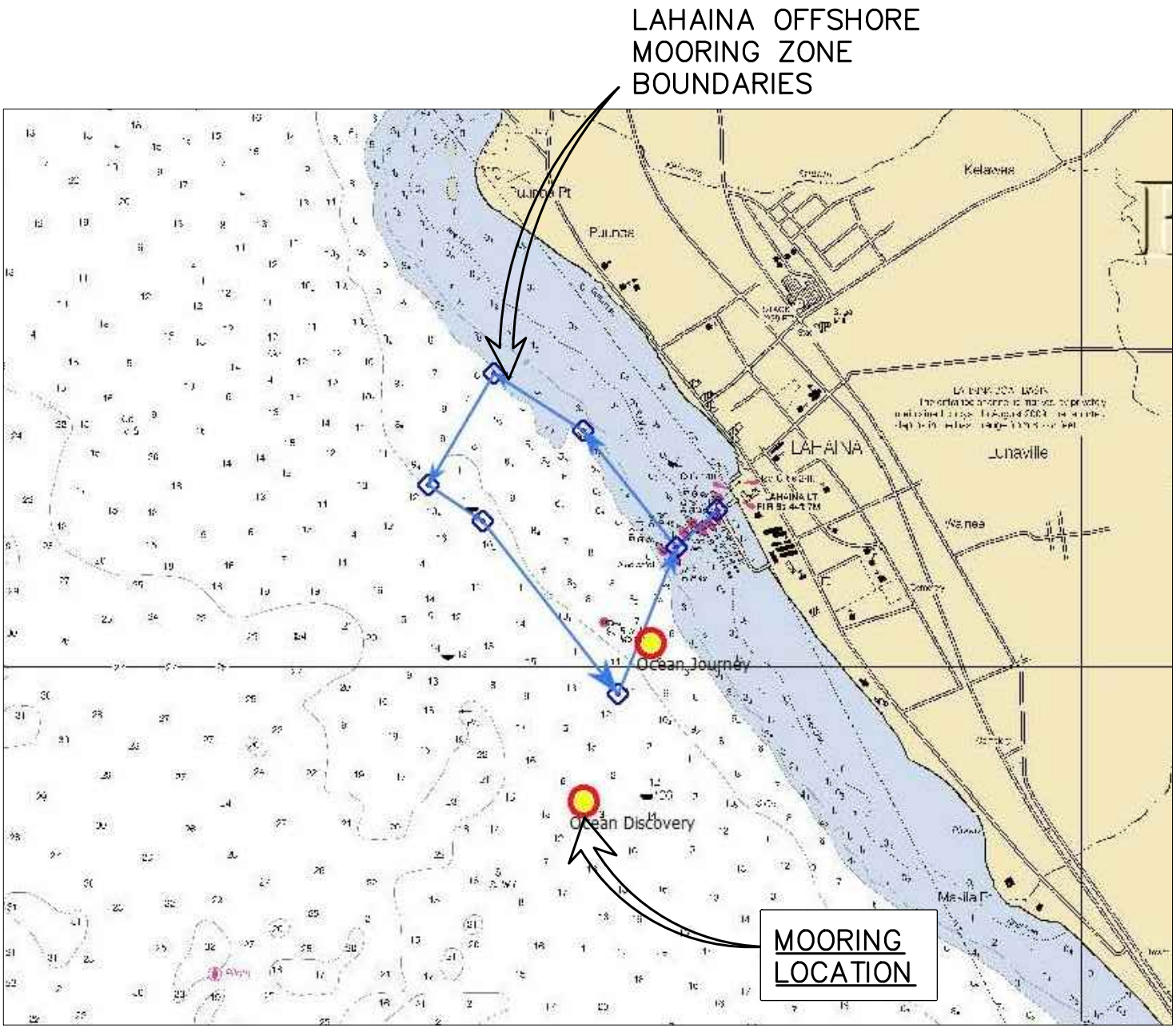
POINT OF CONTACT : KRISTIE WRIGGLESWORTH  
GPS COORDINATES OF MOORING : 20.862306°N, 156.683889°W  
APPROXIMATE WATER DEPTH : 51'



Department of Land and Natural Resources  
Division of Boating and Ocean Recreation  
PLAN REVIEW:

☒ Approved ☐ Approved, as noted  
☐ Rejected ☐ Revise & Resubmit

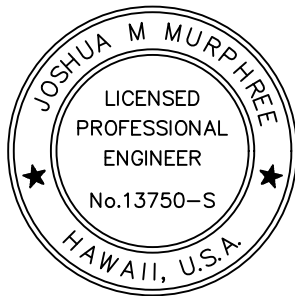
By: f=dp Date: 8/15/17  
Corrections, comments or approval of plans shall not relieve the contractor from other local, state, federal or other agency regulations or permit conditions. This review is for general conformance with engineering design guidelines. The contractor is responsible for confirming all dimensions, quantities, fabrication requirements, and coordination with all other trades.



LOCATION MAP

INDEX TO DRAWINGS		
SHEET NUMBER	DRAWING NUMBER	DESCRIPTION
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PHREE  
CREATIONS, LLC.  
61-655 KAMEHAMEHA HIGHWAY  
HALEIWA, HAWAII 96712 • (808) 349-4990



*[Signature]*  
EXPIRATION DATE OF THE LICENSE 4/30/2018  
THIS WORK WAS PREPARED BY  
ME OR UNDER MY SUPERVISION  
AND CONSTRUCTION OF THIS PROJECT  
WILL BE UNDER MY OBSERVATION

GENERAL NOTES  
CONTRACTOR/OWNER/BUILDER SHALL CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS AT THE JOBSITE BEFORE PROCEEDING WITH THE WORK AND NOTIFY ENGINEER OF ANY DISCREPANCIES FOR RESOLUTION.  
ALL CONSTRUCTION SHALL CONFORM TO THE 2006 INTERNATIONAL BUILDING CODE AND THE LATEST COUNTY OF MAUI/STATE OF HAWAII AMENDMENTS AND ORDINANCES AND/OR THE CITY AND COUNTY OF WHERE THIS PROJECT IS LOCATED AND HAVING JURISDICTION.

REVISION MARK	DATE	DESCRIPTION
PROJECT		
PROPOSED OFFSHORE MOORING LAHAINA MOORING ZONE FOR: FOUR ISLAND OCEAN ADVENTURES, INC. CONTACT: KRISTIE WRIGGLESWORTH 300 MA'ALAE RD., SUITE 211 WAILUKU HAWAII 96793 PHONE: (808) 208-3211 GPS COORDINATES: 20.862306°N 156.683889°W		

SHEET TITLE  
TITLE SHEET

JOB NO. 2015-0007.27B	DRAWING NO.
DRAWN JMM	T-1
CHECKED JMM	
DATE JULY 3, 2017	SHEET 1 OF 3



GENERAL:

- A. WORKMANSHIP AND MATERIALS SHALL CONFORM TO THE BUILDING CODE AS STATED BELOW. HOWEVER, WHERE REFERENCE IS MADE TO PERFORMANCE CONFORMING TO OTHER STANDARDS THE MORE STRINGENT SHALL APPLY.
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- C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR METHODS OF CONSTRUCTION, WORKMANSHIP AND JOB SAFETY.
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- E. PRODUCT DATA REQUIRED BY THESE NOTES SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.

DESIGN CRITERIA:

- A. MINIMUM DESIGN CRITERIA FOR MOORING IN ACCORDANCE WITH UFC 4-159-03:
- B. WIND DESIGN DATA:
1. BASIC WIND SPEED: 105 MPH
- C. CURRENT:
1. MAX CURRENT: 1.5 KNOTS
- D. WAVES AND TIDAL VARIATIONS:
1. PEAK OFFSHORE WAVE HEIGHT: 8 FEET
- DESIGN VESSEL: "OCEAN DISCOVERY" OR SMALLER VESSEL
1. LENGTH: 70'-0"
2. WIDTH: 28'-0"
3. DRAFT: 8'-6"
4. WEIGHT: 67 NET TONS

\*MOORING IS DESIGNED FOR DESIGN VESSEL ONLY, ANY CHANGE IN MOORED VESSEL REQUIRES RE-ANALYSIS.

EARTH ANCHORS:

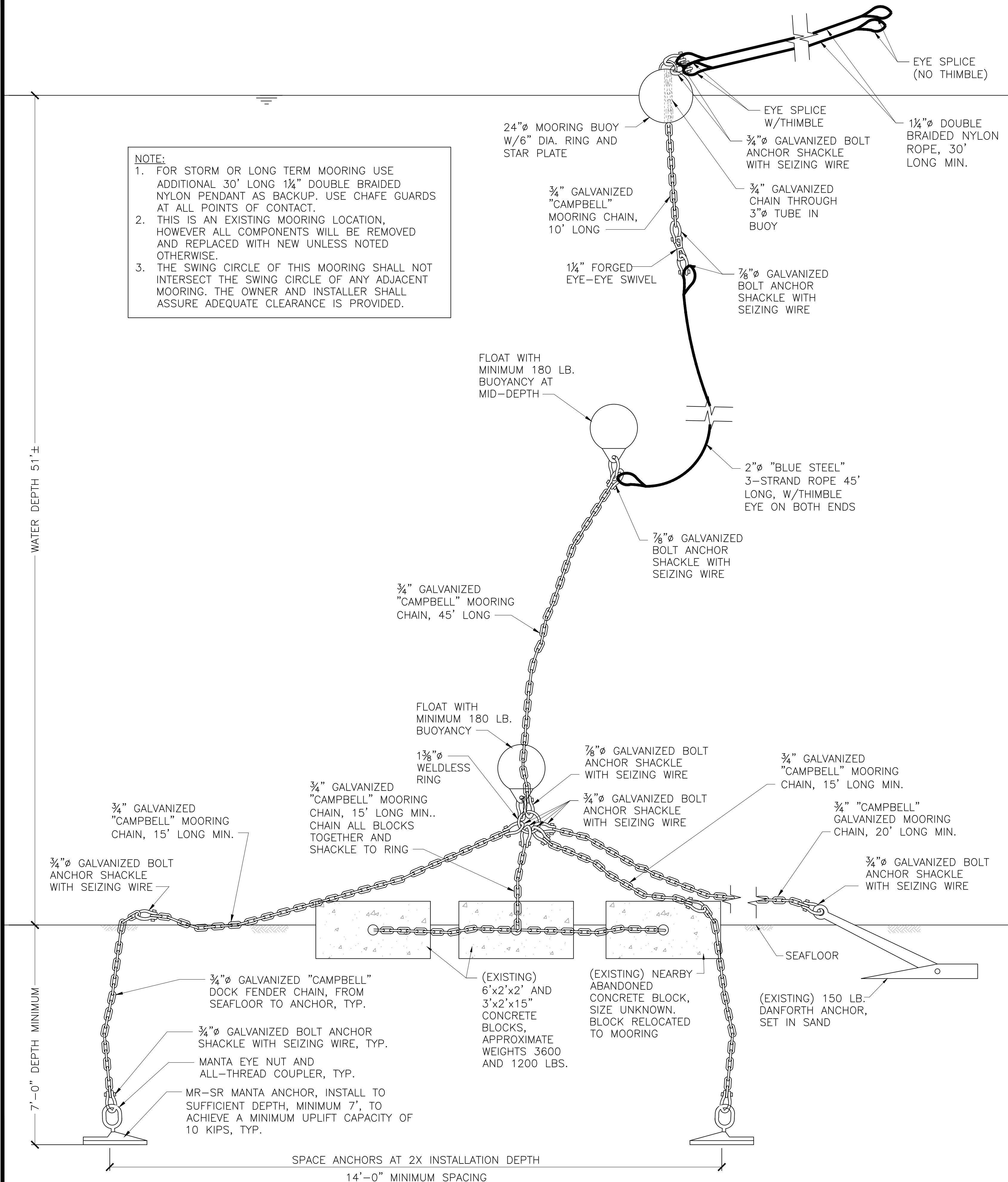
- A. SELECTION OF ANCHOR TYPE SHALL BE BASED UPON SURVEY SITE AND SOIL PROBING TO MINIMUM DEPTH OF 10' AT PROPOSED ANCHOR LOCATION. CONTRACTOR SHALL PROVIDE RESULTS OF SURVEY, SOIL PROBING, AND PROPOSED ANCHOR TYPE TO ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.
- B. INSTALL ANCHORS PER MANUFACTURERS INSTRUCTIONS. PROOF TEST TO MINIMUM UPLIFT CAPACITY STATED ON DESIGN DRAWINGS. SUBMIT DOCUMENTATION OF PROOF LOAD TESTING TO ENGINEER FOLLOWING INSTALLATION.
- C. MANTA ANCHORS SHALL NOT BE INSTALLED IN LOCATIONS WHERE SHIFTING SAND MAY RESULT IN REDUCED SOIL COVER OVER ANCHOR HEAD.

CHAIN, HARDWARE, ROPE, AND MOORING COMPONENTS

- A. ALL CHAIN AND HARDWARE SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM A153.
- B. THIMBLES OR CHAFE GUARDS SHALL BE USED WITH ROPES AT ALL POINTS OF CONTACT.
- C. SUBMIT PRODUCT DATA OF ALL CHAINS, HARDWARE, ROPE, AND MOORING COMPONENTS TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION.

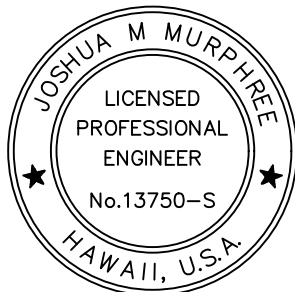
MOORING HARDWARE, MAINTENANCE AND INSPECTION

- A. THE VESSEL OWNER SHALL BE RESPONSIBLE FOR MAINTAINING THE VESSEL'S MOORING HARDWARE. ANY FAILURE RESULTING FROM NON MAINTAINED COMPONENTS OR UNREPAIRED DAMAGE OF THE MOORING RESULTING FROM NORMAL USE SHALL BE THE RESPONSIBILITY OF THE VESSEL OWNER.
- B. THE VESSEL OWNER SHALL INSPECT ALL MOORING HARDWARE, ROPES, AND CHAINS FROM SEA FLOOR TO PENDANT FOR SAFETY AND SECURITY NO LESS THAN TWO TIMES PER YEAR. INSPECTION REPORT/RECORDS SHALL BE KEPT BY VESSEL OWNER AND REPORTED TO HARBORMASTER/DLNR AS REQUIRED.
- C. THE VESSEL OWNER IS RESPONSIBLE FOR INSTALLING AND MAINTAINING CHAFING GEAR ON ALL MOORING LINES.



PHREE CREATIONS, LLC.

61-655 KAMEHAMEHA HIGHWAY  
HALEIWA, HAWAII 96712 • (808) 349-4990



EXPIRATION DATE OF THE LICENSE 4/30/2018  
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION

GENERAL NOTES

CONTRACTOR/OWNER/BUILDER SHALL CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS AT THE JOBSITE BEFORE PROCEEDING WITH THE WORK. AND NOTIFY ENGINEER OF ANY DISCREPANCIES FOR RESOLUTION.

ALL CONSTRUCTION SHALL CONFORM TO THE 2006 INTERNATIONAL BUILDING CODE AND THE LATEST COUNTY OF MAUI/STATE OF HAWAII AMENDMENTS AND ORDINANCES AND/OR THE CITY AND COUNTY OF WHERE THIS PROJECT IS LOCATED AND HAVING JURISDICTION.

REVISION MARK • DATE • DESCRIPTION

PROJECT

PROPOSED  
OFFSHORE MOORING  
LAHAINA MOORING ZONE  
FOR:

FOUR ISLAND OCEAN  
ADVENTURES, INC.

CONTACT: KRISTIE WRIGGLESWORTH  
300 MA'ALAEA RD., SUITE 211  
WAILUKU HAWAII 96793  
PHONE: (808) 208-3211

GPS COORDINATES: 20.862306°N  
156.683889°W

SHEET TITLE

MOORING PLAN

JOB NO. 2015-0007.27B DRAWING NO.

DRAWN JMM

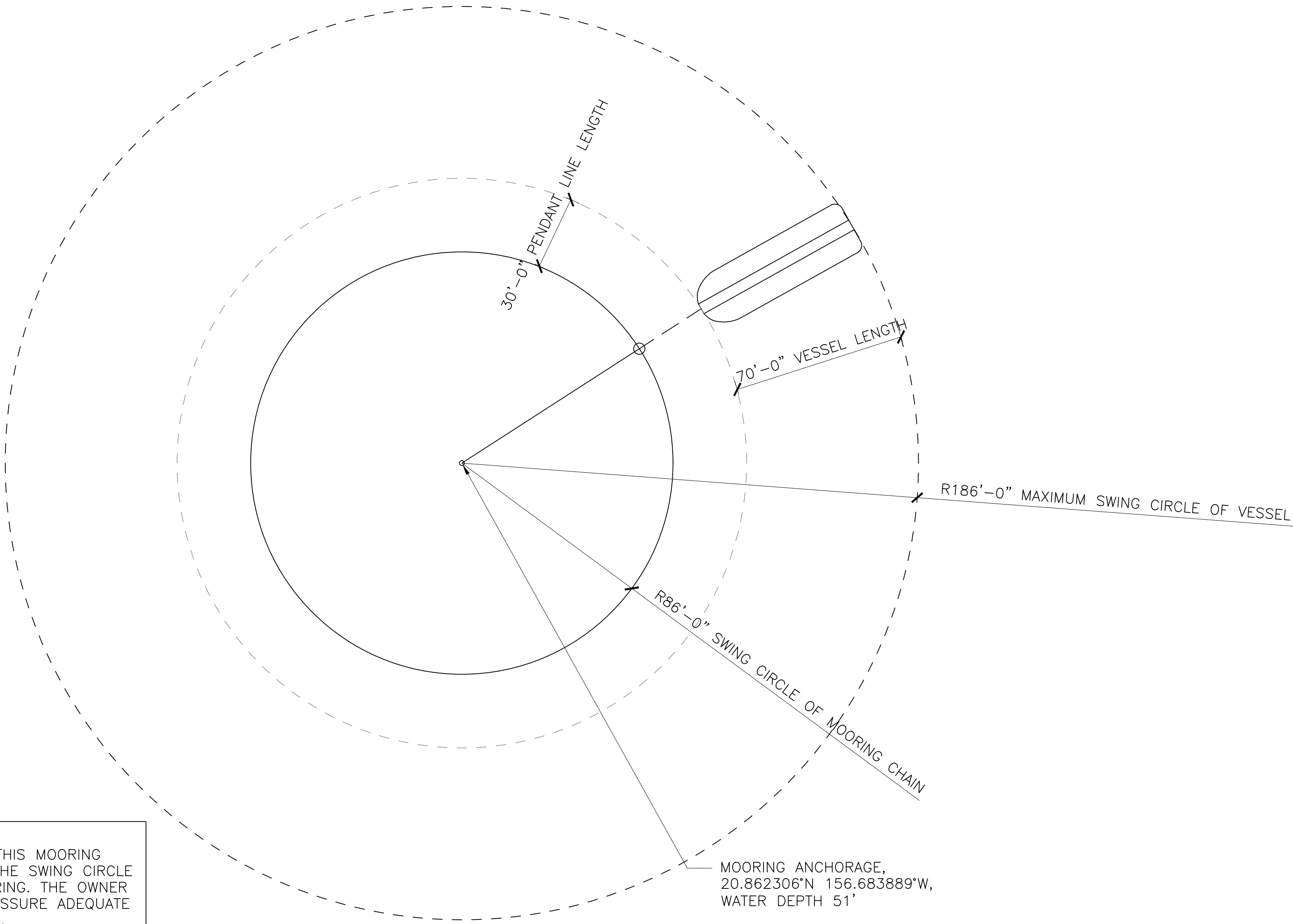
CHECKED JMM

DATE JULY 3, 2017 SHEET 2 OF 3

S-1

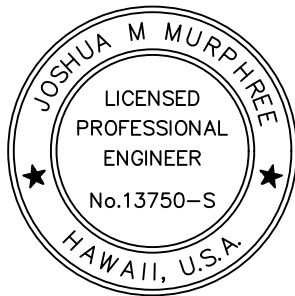
SWING CIRCLE

SCALE: 1/32" = 1'-0"



PHREE  
CREATIONS, LLC.

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*JM*  
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SHEET TITLE

SWING CIRCLE

JOB NO. 2015-0007.27B

DRAWING NO.

DRAWN JMM

CHECKED JMM

DATE JULY 3, 2017

S-2

SHEET 3 OF 3