U.S. Department
of Homeland Security

United States Coast Guard

LOCAL NOTICE TO MARINERS

District: 14 Week: 09/21

March 03, 2021
ISSUED BY:
Commander (dpw)
Fourteenth Coast Guard District
300 Ala Moana Boulevard Room 9-220
Honolulu, HI 96850-4982
Telephone: (808) 535-3408
Email: D14-DG-PJ-dpw@uscg.mil
Website: https://www.navcen.uscg.gov/

Note:
Unless otherwise indicated, missing and destroyed structures are presumed to be in the immediate vicinity, possibly beneath the surface. Any life threatening or hazardous conditions including off station, missing, or inoperative aids to navigation should reported immediately to U.S. Coast Guard Sector Honolulu at (808) 842-2600 and U.S. Coast Guard Sector Guam at (671) 355-4822. Mariners should proceed with caution.

References:
Light List, Volume VI, Pacific Coast and Pacific Islands, 2020 Edition (COMDTPUB P16502.6).
U.S. Coast Pilot 10, Pacific Coast : Oregon, Washington, Hawaii, Pacific Islands 2020 (1st Edition). Coast Pilots, along with corrections, are available at: http://www.nauticalcharts.noaa.gov

Navigation information having been of immediate concern to the mariner, and promulgated by the following broadcasts, have been incorporated in this notice when still significant:
COMCOGARD SECTOR HONOLULU HI BNMs: 038-21 to 039-21
COMCOGARD SECTOR GUAM BNMs: 074-21 to 087-21

ABBREVIATIONS

A through H

ADRIFT - Buoy Adrift
AICW - Atlantic Intracoastal Waterway
Al - Alternating
B - Buoy
BKW - Breakwater
bl - Blast
BNM - Broadcast Notice to Mariner
bu - Blue
C - Canadian
CHAN - Channel
CGD - Coast Guard District
C/O - Cut Off
CONT - Contour
CRK - Creek
CONST - Construction
DAYMK/Daymk - Daymark
DBN/Dbn - Daybeacon
DBD/DAYBD - Dayboard
DEFAC - Defaced
DEST - Destroyed
DISCON - Discontinued
DMGD/DAMGD - Damaged
ec - eclipse
EST - Established Aid
ev - every
EVAL - Evaluation
EXT - Extinguished
F - Fixed
fl - flash
Fl - Flashing
G - Green
GIWW - Gulf Intracoastal Waterway
HAZ - Hazard to Navigation

I through O

I - Interrupted
ICW - Intracoastal Waterway
IMCH - Improper Characteristic
INL - Inlet
INOP - Not Operating
INT - Intensity
ISL - Islet
Iso - Isophase
kHz - Kilohertz
LAT - Latitude
LB - Lighted Buoy
LBB - Lighted Bell Buoy
LHB - Lighted Horn Buoy
LGB - Lighted Gong Buoy
LONG - Longitude
LNM - Local Notice to Mariners
LT - Light
LT CONT - Light Continuous
LTR - Letter
LWB - Lighted Whistle Buoy
LWP - Left Watching Properly
MHz - Megahertz
MISS/MSNG - Missing
Mo - Morse Code
MRASS - Marine Radio Activated Sound Signal
MSLD - Misleading
N/C - Not Charted
NGA - National Geospatial-Intelligence Agency
NO/NUM - Number
NOS - National Ocean Service
NW - Notice Writer
OBSCU - Obscured
OBST - Obstruction

P through Z

PRIV - Private Aid
Q - Quick
R - Red
RACON - Radar Transponder Beacon
Ra ref - Radar reflector
RBN - Radio Beacon
REBUILT - Aid Rebuilt
RECOVERED - Aid Recovered
RED - Red Buoy
REFL - Reflective
RRL - Range Rear Light
RELIGHTED - Aid Relit
RELOC - Relocated
RESET ON STATION - Aid Reset on Station
RFL - Range Front Light
RIV - River
RRASS - Remote Radio Activated Sound Signal
s - seconds
SEC - Section
SHL - Shoaling
si - silent
SIG - Signal
SND - Sound
SPM - Single Point Mooring Buoy
SS - Sound Signal
STA - Station
STRUCT - Structure
St M - Statute Mile
TEMP - Temporary Aid Change
TMK - Topmark
TRLB - Temporarily Replaced by Lighted Buoy
TRLT - Temporarily Replaced by Light
TRUB - Temporarily Replaced by Unlighted Buoy

HBR - Harbor
HOR - Horizontal Clearance
HT - Height
OBSTR - Obstruction
Oc - Occulting
ODAS - Anchored Oceanographic Data Buoy
USACE - Army Corps of Engineers
W - White
Y - Yellow

Additional Abbreviations Specific to this LNM Edition:

MSLD SIG - Misleading Signal

SECTION I - SPECIAL NOTICES

This section contains information of special concern to the Mariner.

NOAA - DISCONTINUATION OF PRINTED PAPER CHARTS (04/20)

On November 15, 2019, NOAA formerly announced in the Federal Register (Docket #2019-24807) that they would begin a 5-year process of discontinuing their traditional paper, or raster, charts by 2025. NOAA intends to gradually 'sunset' raster chart products and is introducing an option to create custom ENC data based charts that can be printed as a paper copy locally or commercially, via one of their certified third party printers. More detailed information regarding this transition is available from https://nauticalcharts.noaa.gov/publications/docs/raster-sunset.pdf. Comments/questions on the Federal Register Notice and the NOAA Custom Chart application should be submitted at https://www.nauticalcharts.noaa.gov/customer-service/assist/. Other concerns may be directed to your local NOAA Navigation Manager, https://nauticalcharts.noaa.gov/customer-service/regional-managers/index.html. In order to identify and overcome the regulatory challenges associated with this transition including but not limited to updating commercial vessel carriage requirements and maritime safety information processes, NOAA will continue to work directly with its Agency charting partners. A prototype version of the NOAA Custom Chart Tool is available at https://devgis.charttools.noaa.gov/pod/ .

VHF-DSC RADIO EQUIPMENT INSTALLATION REQUIREMENT FOR INSPECTED PASSENGER AND COMMERCIAL FISHING VESSELS (51/15)

On January 20, 2015, the Coast Guard notified the Federal Communications Commission (FCC) that it had published a Federal Register notice declaring Sea Area A11 to be within twenty nautical miles seaward of the territorial baseline along the East, West, and Gulf coasts of the United States, excluding Alaska, but including Hawaii, Puerto Rico, Guam, the Virgin Islands of the United States, and the Northern Mariana Islands of Saipan, Tinian, and Rota. This determination was made because the Coast Guard now has service, in Sea Area A1, under its Rescue 21 Distress System coverage. Consequently, and in accordance with the requirements of Title 47 Code of Federal Regulations (CFR) 80.905(a)(1), inspected passenger vessels that carry more than six passengers, with at least one for hire, and commercial fishing vessels of 300 gross tons and upward, operating in those waters, must upgrade to VHF-DSC3 radio equipment beginning one year after notification or not later than January 20, 2016.

In accordance with references 46 CFR 121.502, 46 CFR 184.502 and 28 CFR 28.245, a vessel must comply with the applicable requirements for any radio installation, including the requirements for a station license and installation certificates to be issued by the FCC as set forth in 47 CFR Part 80. Vessels that operate solely within twenty nautical miles of land must be equipped with a radiotelephone installation that conform to the appropriate performance standards in § 80.1101(c)(2).

The FCC released a Public Notice (DA 15-466) on April 16, 2015 announcing this new requirement and questions concerning that notice may be directed to Mr. Tim Maguire of the Mobility Division, Wireless Telecommunications Bureau at (202) 418-2155, or Tim.Maguire@FCC.gov.

Questions concerning this notice may be directed to the Office of Commercial Vessel Compliance, Commandant (CG-CVC) at 202-372-1251 or CG-CVC-1@uscg.mil.

2021 LIGHT LIST (03/21)

2021 Light Lists are available on the USCG Navigation Center's website at:http://www.navcen.uscg.gov/?pageName=lightLists. Coast Guard Light Lists are a means for communicating aids to navigation information to the maritime public. Local Notice to Mariners will continue to advise Light List corrections and NAVCEN will continue to publish a compilation of corrections. Complete versions of the 2021 Light Lists are updated weekly on the NAVCEN website and mariners should download applicable copies and updates as needed at:
http://www.navcen.uscg.gov/?pageName=lightListWeeklyUpdates. A summary of weekly 2021 Light List corrections are available at:
https://www.navcen.uscg.gov/?pageName=lightListCorrections.

U.S. COAST GUARD TO TEST AUTOMATIC IDENTIFICATION SYSTEM (AIS) AIDS TO NAVIGATION (04/14)

In the near future, the U.S. Coast Guard and other authorized agencies and organizations (i.e., U.S. Army Corps of Engineers, Marine Exchange of Alaska) will begin transmitting AIS ATON messages and marine safety information via AIS for testing and evaluation. The exact content, location, and times of these broadcasts will be announced in future Local Notices to Mariners.

AIS is an internationally adopted radio communication protocol that enables the autonomous and continuous exchange of navigation safety related messages amongst vessels, lifeboats, aircraft, shore stations, and aids to navigation (AIS ATON). AIS ATON stations broadcast their presence, identity (9-digit Marine Mobile Service Identity (MMSI) number), position, and status at least every three minutes or as needed. These broadcasts can originate from an AIS station located on an existing physical aid to navigation (Real AIS ATON) or from another location (i.e., AIS Base Station). An AIS Base Station signal broadcasted to coincide with an existing physical aid to navigation is known as a Synthetic AIS ATON. An electronically charted, but non-existent as a physical aid to navigation, is identified as a Virtual AIS ATON. The latter two can be used to depict

an existing aid to navigation that is off station or not watching properly or to convey an aid to navigation that has yet to be charted. All three variants can be received by any existing AIS mobile device, but they would require an external system for their portrayal (i.e., AIS message 21 capable ECDIS, ECS, radar, PC). How they are portrayed currently varies by manufacturer, but the future intention is for the portrayal to be in accordance with forthcoming International Standards (i.e., IEC 62288 (Ed. 2), IHO S-4 (Ed. 4.4.0)).

Mariners capable of receiving and displaying these test AIS messages are encouraged to provide feedback and report any anomalies to the USCG NAVCEN Website: https://www.navcen.uscg.gov | Contact Us Tab | Subject: AIS | Category: AIS Testing.

USCG NATION-WIDE - AUTOMATIC IDENTIFICATION SYSTEM (NAIS) NETWORK TESTING (31/15)

On August 10, 2015, the U.S. Coast Guard will begin AIS Application Specific Message (AIS-ASM) testing. The test transmissions will occur between 0001-2359Z, 7 days/week. The test messages can be identified by their Maritime Mobile Service (MMSI) number: 300669139 or 00366613 and by the words "USCG TEST" within the contents of the message. Mariners are requested to contact the USCG Navigation Center at 1-703-313-5900 or TIS-PF-NISWS@uscg.mil with any questions, comments, or to report any safety and/or operational impacts caused by this testing.

Application Specific Messages to be tested include: messages 6, 8, 25, and 26, DAC=367, FI's=22, 29, 33, 35; AIS Safety Related Text (SRM) messages: 8 (DAC=001, FI=0) and 14. The messages will be of various lengths, using repetitions of the text "USCG TEST". For further information on AIS messages, DACs, and FI's visit https://www.navcen.uscg.gov/?pageName=AISMessages.

USCG NATION-WIDE - SCHEDULED REALIGNMENT OF BROADCAST SERVICES (31/15)

U.S. Coast Guard Communication Stations Chesapeake, Boston, New Orleans, Charleston, Miami, Pt Reyes, Honolulu, Cambria, Astoria, Kodiak, San Juan and Guam MF and HF broadcast services may be impacted commencing August 3, 2015 by scheduled realignment of system infrastructure. The Coast Guard is realigning technical service delivery to enhance information assurance and increase cybersecurity. Mariners are advised that this realignment may impact broadcast services including search and rescue information, weather forecasts, and notice to mariners that are delivered via NAVTEX, SITOR, and HF automated voice broadcast. While the Coast Guard has made significant efforts to ensure continued service delivery, we are advising mariners of potential service disruptions in order to enable reporting by mariners of any suspected loss that is experienced by a mariner. Report suspected instances of non-receipt to the nearest Coast Guard Communications Station.

PACIFIC OCEAN - HAZARD TO NAVIGATION - MARINE DEBRIS (07/12)

With the increase in ocean debris sightings along the coastlines of the Pacific Ocean, mariners are reminded to submit debris sighting reports to the National Oceanic and Atmospheric Administration (NOAA) Marine Debris Program at DisasterDebris@noaa.gov, and the University of Hawaii oceanographic research center at marinedebris@soest.hawaii.edu. For inshore sightings, please use the State of Hawaii https://dlnr.hawaii.gov/dobor/reportmarinedebrishawaii/.

PACIFIC OCEAN - PHILIPPINE SEA - MARIANA ISLANDS - CAROLINE ISLANDS - ELECTRONIC NAVIGATION - INACCURATE RANGELINE (02/11)

The U.S. Coast Guard has become aware that Coast Guard information used to depict a rangeline on NOAA Electronic Navigational Charts (ENC) may not be of sufficient accuracy to accurately portray the rangeline on the ENC. Mariners are cautioned that the position of a rangeline as shown on an ENC may not reflect its true position.

HI ISLANDS - HAWAII - HILO HARBOR - AIS TEMPORARY DEACTIVATION (07/19)

All mariners be advised the Coast Guard has temporarily deactivated AIS broadcasting for the following aids to navigation in the Hilo, HI area:

28035 Hilo Harbor Entrance Lighted Buoy 1 AIS: MMSI 993699986
28040 Hilo Harbor Breakwater Light AIS: MMSI 993699987
28055 Hilo Harbor Lighted Buoy 3 AIS: MMSI 993699985
28070 Hilo Harbor Lighted Buoy 4 AIS: MMSI 993699984

HI ISLANDS - HAWAII - ISAAC HALE PARK (02/19)

The waterway leading to Pohoiki Bay boat ramp at Isaac Hale Park is un-navigable due to shoaling and sand accumulation. The light and day boards have been temporarily removed from Pohoiki Bay Breakwater Light 2 (LLNR 28135).

HI ISLANDS - HAWAII - AUTONOMOUS WATERCRAFT MISSION (50/20)

Jupiter Research Foundation, will be transecting an autonomous, unmanned maritime vehicle (Wave Glider-WG, named "Europa") on a round trip mission from Puako Bay, Hawaii Island, eastward more or less along latitude 18° North on the high seas to waters off of the Revillagigedo Archipelago, Mexico. It will transect south around the Big Island in the contiguous zone adjacent to and beyond its territorial sea that extends seaward between 12nm and 24nm from its baselines offering a 12nm "swim lane". The transit will commence on or about Dec 14, 2020 and is expected to terminate on or about April 15th, 2021.

Operations will consist of scientific ocean data collection. The Wave Glider carries no fuel, lubricants, or hydrocarbons, is wave powered, remotely attended from our Wave Glider Operations Center (WGOC), moving at speeds of less than 2 knots, and designed to automatically give way if encountered by a vessel transmitting AIS. It is approximately 9' x 2.5' (surfboard size), copper in color, with a contact plaque and a mast extending 2' above the water surface bearing an orange flag and white light. Mariners are requested to transit the area with caution. For more details contact Jupiter Research Foundation 24/7 by email at admin@jupiterfoundation.org with your inquiries.

HI ISLANDS - OAHU - HONOLULU HARBOR - AIS ACTIVATION (07/21)

All mariners be advised the Coast Guard has temporarily activated AIS broadcasting for the following aids to navigation in the Honolulu Harbor area:

29200 Honolulu Harbor Channel Buoy 3: MMSI 993692240
29205 Honolulu Harbor Channel Buoy 4: MMSI 993692241

For any concerns contact Sector Honolulu at (808) 884-2600.

HI ISLANDS - OAHU - DREDGE OPERATIONS (04/21)

In support of the state of Honolulu and the Department of Land and Natural Resources (DLNR), Waikiki Beach Maintenance Projects, American Marine Corporation will be conducting planned dredging operations and the associated barge and sand transport pipeline operations off Waikiki until on or about May 31, 2021. If there are any questions, please contact DC Carter, American Marine Corporation at 808-792-1181 or dc@amsghq.com.

Please see the below for further details on locations and operations:
Waikiki Beach Maintenance, See Enclosure 3.
HDPE Drawing with 82 Barge, See Enclosure 4.
Waikiki Location, See Enclosure 5.

HI ISLANDS - OAHU - SHOALING (25/17)

There has been a report of increased shoaling in Maunalua Bay, between Maunalua Bay Daybeacon 1A (LLNR 28935) and Maunalua Bay Daybeacon 2 (LLNR 28940) when transiting to and from Hawaii Kai. The depth of the water is being estimated around 2-3 feet at low tide. All vessels are requested to remain vigilant regarding water depth when operating in and out of this channel.

HI ISLANDS - OAHU - DREDGING (48/19)

Healy Tibbitts will be conducting Ala Wai Canal Dredging and Improvements Project at Ala Wai Canal are continuing and will be completed on or about April 30, 2021 and seawall repair related operation will continue until on or bout March 30, 2021. For the dredging related operations, the following vessels will either be moored or working within the Ala Wai Small Boat Harbor:

· Crane Barge HT 538 (160' x 65'). Will be moored on anchors adjacent to Magic Island.
· Dump Scow WEEKS 260 (197' x 45')
· Dump Scow SAND ISLAND (182' x 44')
· Tug American Emerald (63.7' x 23.5')
· Tug Carolyn (59' x 22')
· Workboat Roberta G (46' x 16')
· Miscellaneous picket boats and work skiffs.

The following vessels will either be moored or working within the Ala Wai Canal between the upper canal area near the aikiki-Kapahulu Public Library and the Ala Moana Blvd bridge, including the Manoa-Palolo Canal:

· Sectional Excavator Dredge Barge (80' x 40'). Will be moored on spuds.
· Sectional Hopper Scow Barge (80' x 40'). Will be secured alongside the Excavator Dredge Barge.
· Sectional Booster Pump Dredge Barge (30' x 40') Will be moored on anchors/spuds
· Ellicott 370 Ladder Dredge (40' x 12')
· Work skiffs.

In addition, a 12-inch HDPE plastic pipeline will be used to transport the dredge material from Dredge Barge to the Dump Scow WEEKS 260/SAND ISLAND. The pipeline will be floating within the canal and submerged on the bottom within the Ala Wai Harbor area. Boaters are urged to use extreme caution when navigating the Ala Wai Harbor as the submerged pipeline is prone to floating periodically. Dredging operations will be undertaken seven (7) days per week, the Dump Scow WEEKS 260 and/or SAND ISLAND will be towed by either the tug Carolyn or the tug American Emerald (or substitute tug) three (3) times per day from Ala Wai Small Boat Harbor to the South O'ahu Offshore Dredge Material Disposal Site (ODMS). The call sign for the tug Carolyn is WY 2931 and the call sign for the tug American Emerald is WDC6392. VHF Channel 16 will be monitored. Mariners are requested to use extreme caution while transiting the work area. For the seawall repair operations, the following

vessels will either be moored or working within the Ala Canal between the east end of the Ala Wai Park and the Kalakaua Avenue bridge, primarily on the northside of the canal:

· Sectional Crane Barge (80′ x 80′). Will be moored on spuds.
· Sectional Deck Barge (40′ x 40′). Will be secured alongside the Crane Barge.
· Work skiffs.

If you have any questions or need more information, please contact Project Manager Dane Korté at (908) 463-9307.

HI ISLANDS - OAHU - DREDGE (01/20)

Hawaiian Dredging is performing Substructure Work at Pier 36. The following entail the work being performed:
1) Demo Work to Concrete Under the Pier.
2) Prepping and Placing Formwork Under the Pier.
3) Prepping and Placing Rebar for Repairs (including welding work)
4) Concrete Pours

The project duration is from December 2020 to May 2021 and work days are Monday through Friday from 6:30 AM to 3:00 PM (except on Concrete Pour Days where work days can end at 5:00PM).

Contact Information:
PROJECT MANAGER: Richard Aoki (808) 306-2630
PROJECT ENGINEER: Toby Inouye (Primary Contact) (808) 478-7008
GENERAL FOREMAN: Anthony Bui (Primary Contact) (808) 479-0465

HI ISLANDS - OAHU - HONOLULU HARBOR DREDGE (03/21)

Honolulu Harbor Maintenance Dredging Project at Honolulu Harbor will commence on or about February 8th 2021. For the dredging related operations, the following vessels will either be moored or working within Honolulu Harbor or the entrance channel to Honolulu Harbor:

· Crane Barge WEEKS 544 (160′ x 65′).
· Dumps Scow DUTRA KS10 (246′ x 45′)
· Dump Scow MCamis Sand Island (175′ x 45′)
· Dump Scow WEEKS 260 (197′ x 45′)
· Pacific Tug John Brix (136′ x 35′)
· Tug Carolyn (59′ x 22′)
· Workboat Roberta G (46′ x 16′)
· Miscellaneous picket boats and work skiffs.

Dredging operations will be undertaken seven (7) days per week, the Dump Scow Dutra KS10 will be towed by the tug John Brix (or substitute tug) up to two (2) times per day from Honolulu Harbor to the South O′ahu Offshore Dredge Material Disposal Site (ODMS). The MCamis Scow Sand Island will be round trip towed by the tug John Brix (or substitute tug) one (1) time per day from Honolulu Harbor to Kalaeloa Harbor. The call sign for the Tug John Brix is WY 4853. VHF Channel 16 will be monitored. Mariners are requested to use extreme caution while transiting the work area.

Any questions or need more information, please contact Project Manager Cristian Caicedo at (808) 630–0179.

See enclosure 2.

HI ISLANDS - OAHU - DIVE OPERATIONS (39/20)

Par Hawaii, Inc. Will be conduction dive operations for their maintenance project activities at its Single Point Mooring (SPM) subsea 30″ crude pipeline extending offshore from Barbers Point near the south-west corner of Oahu. This maintenance project is scheduled to commence, weather permitting, on September 29, 2020 and conclude on April 01, 2021 as weather permits. Actual work will occur nearshore in approximately 34 ft. of water depth offshore of Barbers Point and at the SPM buoy and entire length of pipelines.

The following vessels will be onsite at various times during the work:

• Dive support/Work boat "Huki Pau" (74′x21′)
• 10-Meter Ambar RHIB (32′x10.3′)
• 8-Meter Ambar RHIB (26′x9.4′)
•Tugboat "Noke" (65′x24′)
•Tugboat "Na′ina" (94′x26′)

Mariners are requested to transit the area with caution, keep a sharp lookout for dive operations, and monitor channel 16.

MARIANA ISLANDS - GUAM - NAVTEX STATION (41/19)

NAVTEX Station (518KHz) is Inoperable. The 518KHz NAVTEX station is inoperable with no estimated time of repair. NAVTEX broadcasts are available on 4209.5KHz Mariners.

MARIANA ISLANDS - GUAM - APRA OUTER HARBOR - SAFETY ZONE (23/15)

Apra Harbor Outer Harbor Safety Zone Alpha is designated as the waters encompassed within an arc of 1000 yard radius centered at Naval Wharf Kilo located in the following coordinates:

13-26-44.5N/ 144-37-50.7E

Safety Zone Alpha applies when Wharf Kilo or a vessel moored at Wharf Kilo is displaying a red Bravo flag by day or a red light at night accompanied by a Safety Zone Alpha Sign. When Safety Zone Alpha applies entry into the zone is prohibited unless authorized by Captain of the port, Guam. Reference Safety Zone 165.1401 as marked on Apra Harbor Chart 81054.

Apra Harbor Outer Harbor Safety Zone Bravo is designated as the waters encompassed within an arc of 1400 yard radius centered at Naval Wharf Kilo located in the following coordinates:

13-26-44.5N/ 144-37-50.7E

Safety Zone Bravo applies when Wharf Kilo or a vessel moored at Wharf Kilo is displaying a red Bravo flag by day or a red light at night accompanied by a Safety Zone Bravo Sign. When Safety Zone Bravo applies entry into the zone is prohibited unless authorized by Captain of the port, Guam. Reference Safety Zone 165.1401 as marked on Apra Harbor Chart 81054.

MARIANA ISLANDS - GUAM - APRA HARBOR SECURITY ZONE CHARLIE (01/16)

Apra Harbor Security Zone Charlie is designated as the waters surrounding naval moorings buoy number 702, located in the following coordinates:

13-27-30N/ 144-38-13E

While a vessel is moored the security zone will extend 100 yards in all direction around the vessel and its mooring. A 50 yard security zone will remain in effect in all directions around buoy number 702 while there is no vessel moored. Entry into security zone Charlie is prohibited unless authorized by the Captain of the Port, Guam. Reference Security Zone Charlie 165.1404 as marked on Apra Harbor chart (81054). For any questions contact USCG Sector Guam at (671) 355-4910.

SECTION II - DISCREPANCIES

This section lists all reported and corrected discrepancies related to Aids to Navigation in this edition. A discrepancy is a change in the status of an aid to navigation that differs from what is published or charted.

DISCREPANCIES (FEDERAL AIDS)

LLNR	Aid Name	Status	Chart No.	BNM Ref.	LNM St	LNM End
28025	Pepeekeo Point Light	DAYMK DMGD	19320	295-20	47/20	
28330	Nakalele Point Light	LT EXT	19342	302-20	49/20	
28555	Kaumalapau Light	LT EXT/STRUCT DMGD	19347	015-20	03/20	
29755	Kukii Point Light	LT EXT	19383	252-20	38/20	
29850	Makahuena Point Light	LT EXT	19381	310-20	52/20	
29960	Midway Channel Entrance Buoy 2	MISSING	19482		04/21	
30485	Kwajalein Harbor Channel Buoy 7	MISSING	81715		20/20	
30665	Agana Small Boat Basin Approach Range Front Light	LT EXT	81048	637-20	48/20	
30855	Tanapag Harbor Approach Lighted Buoy T	TMK MISSING	81076	544-19	40/20	
30919	Ushi Point Light	LT EXT	81067	502-19	38/20	

DISCREPANCIES (FEDERAL AIDS) CORRECTED

LLNR	Aid Name	Status	Chart No.	BNM Ref.	LNM St	LNM End

None

DISCREPANCIES (PRIVATE AIDS)

LLNR	Aid Name	Status	Chart No.	BNM Ref.	LNM St	LNM End
28007.15	FAD Site TT - Kanewaa Point, Hawaii	MISSING	19320	122-20	19/20	
28007.22	FAD Site WH1	MISSING	19320	021-18	18/15	
28007.27	FAD Site OT - Waikoloa, Hawaii	MISSING	19327	289-20	46/20	
28007.4	FAD SITE MTBC 1	MISSING		148-19	44/19	
28008.03	FAD Site NL - Nuu Landing, Maui	MISSING	19320	179-20	28/20	
28008.09	FAD Site JJ - Kamohio, Kahoolawe	OFF STA	19347	031-21	08/21	
28008.11	FAD Site SO - Kahoolawe	MISSING	19347	213-20	34/20	
28008.15	FAD Site K - Palaoa, Lanai	MISSING	19340	179-20	28/20	
28008.21	FAD Site N - Cape Halawa, Molokai	MISSING	19340	179-20	28/20	
28008.31	FAD Site T - Makapuu, Oahu	MISSING	19339	307-20	50/20	
28008.33	FAD Site P - Penguin Bank, Oahu	MISSING	19339	254-20	39/20	
28008.37	FAD Site BO - Barbers Point, Oahu	MISSING	19380	213-20	34/20	
28009.03	FAD Site V - Makua, Oahu	MISSING	19357	030-21	07/21	
28009.05	FAD Site CO - Kaena Point, Oahu	MISSING	19380	265-20	41/20	
28009.07	FAD Site II - Haleiwa, Oahu	MISSING	19004	242-20	37/20	
28009.09	FAD Site J - Wailalee, Oahu	MISSING	19380	179-20	28/20	
28009.13	FAD Site BB - Moloaa, Kauai	MISSING	19381	122-20	19/20	
28009.15	FAD Site DK - Anahola, Kauai	ADRIFT	19004	188-20	19/20	
28009.17	FAD Site WK - Wailua, Kauai	MISSING	19381	122-20	19/20	
28009.19	FAD Site Z - Kipukai, Kauai	MISSING	19381	122-20	19/20	
28095	Reeds Bay Rock Daybeacon B	MISSING	19324	218-18	40/18	
28230	Puako Small Boat Harbor Buoy 2	MISSING	19330		10/20	
28235	Puako Small Boat Harbor Buoy 3	MISSING	19330		10/20	
28240	Puako Small Boat Harbor Buoy 4	MISSING	19330		10/20	
28245	Puako Small Boat Harbor Buoy 5	MISSING	19330		10/20	
28250	Puako Small Boat Harbor Buoy 6	MISSING	19330		10/20	
28255	Puako Small Boat Harbor Buoy 7	MISSING	19330		10/20	
28260	Puako Small Boat Harbor Buoy 8	MISSING	19330		10/20	
28265	Puako Small Boat Harbor Buoy 9	MISSING	19330		10/20	
28381.1	Kahului Boat Ramp Buoy 1	MISSING		187-20	30/20	
28381.2	Kahului Boat Ramp Buoy 2	MISSING		187-20	30/20	
28381.3	Kahului Boat Ramp Buoy 3	MISSING		187-20	30/20	
28381.4	Kahului Boat Ramp Buoy 4	MISSING		187-20	30/20	
28381.5	Kahului Boat Ramp Buoy 5	MISSING		187-20	30/20	
28381.6	Kahului Boat Ramp Buoy 6	MISSING		187-20	30/20	
28381.8	Kahului Boat Ramp Buoy 8	MISSING		187-20	30/20	
28381.9	Kahului Boat Ramp Buoy 9	MISSING	19342	187-20	30/20	
28427	Maalaea Basin Channel Lighted Buoy 1	ADRIFT	19350	158-18	22/18	
28480	Lahaina Boat Basin Lighted Buoy 3	MISSING	19348	177-18	28/18	
28500	Lahaina Boat Basin Lighted Buoy 7	MISSING	19348	238-18	46/18	
28507.5	Mala Channel Light 5	LT EXT	19348	283-20	45/20	
28507.6	Mala Channel Light 6	LT EXT	19348	284-20	45/20	

28524	PacIOOS Wave Lighted Buoy Lanai	MISSING	19347	180-19	53/19
28674.04	WETS 4	MISSING	19359	010-18	02/18
28674.05	WETS 5	MISSING	19359	011-18	02/18
28885	Mokapu Point Research Lighted Buoy North	MISSING	19357	077-18	09/18
28886	Mokapu Point Research Lighted Buoy South	MISSING	19357	078-18	09/18
28895	Makai Channel Daybeacon 3	DAYMK MISSING	19358	038-19	11/19
28900	Makai Channel Daybeacon 4	MISSING	19358	038-19	11/19
28935	Maunalua Bay Daybeacon 1A	STRUCT DEST/HAZ NAV/DAYMK MISSING	19358		46/19
29115	Ala Wai Boat Harbor Channel Buoy 4	MISSING	19369	077-20	13/20
29125	Ala Wai Boat Harbor Channel Daybeacon 6	DAYMK DMGD	19369	174-18	27/18
29135	Ala Wai Boat Harbor Channel Daybeacon 8	DAYMK DMGD	19369	175-18	27/18
29315	Keehi Lagoon Barge Turning Channel Range Front	REDUCED INT	19367	312-20	52/20
29325	Keehi Lagoon Barge Turning Basin Buoy 2	OFF STA	19367	085-12	16/12
29656	West Beach Marina Light 2	LT EXT	19362	266-17	40/17
29734.5	PacIOOS Wave Lighted Buoy Waimea	MISSING	19357	014-21	04/21
29735	PacIOOS Wave Lighted Buoy Hanalei	MISSING	19381	282-20	44/20
29903	Kikiaola Boat Harbor Light 2	LT EXT		169-18	25/18
30603	FAD Site "Cocos" - Guam	LT EXT	81048	014-19	03/19
30612	FAD Site "FACPI 2" - Guam	MISSING	81048	082-19	09/19
30624	FAD Site "Number 2" - Guam	OFF STA	81048	146-14	12/14
30631	FAD Site "Number 3"	MISSING		083-19	09/19
30634	FAD Site "Number 4"	MISSING		011-19	03/19
30637.1	FAD Site GF1	MISSING	81048	041-18	03/18
30640	FAD Site "Number 5"	LT EXT		607-18	47/18
30650	PacIOOS Wave Lighted Buoy Ritidian	MISSING	81048	537-19	49/19
30787	Drydock Point West Entrance Daybeacon 1	DAYMK MISSING	81054	707-17	44/17
30811.3	Agat Small Boat Harbor Light 3	LT EXT	81048	178-19	18/19
30811.9	Agat Small Boat Harbor Daybeacon 9	DAYMK IMCH		092-18	07/18
30815	Mamaon Channel Lighted Buoy 1	OFF STA	81048	718-17	45/17
30820	Mamaon Channel Lighted Buoy 2	OFF STA	81048	506-18	39/18
30851.2	FAD Site DD - Rota	MISSING	81063	303-19	30/19

DISCREPANCIES (PRIVATE AIDS) CORRECTED

LLNR	Aid Name	Status	Chart No.	BNM Ref.	LNM St	LNM End

None

PLATFORM DISCREPANCIES

Name	Status	Position	BNM Ref.	LNM St	LNM End

None

PLATFORM DISCREPANCIES CORRECTED

Name	Status	Position	BNM Ref.	LNM St	LNM End

None

SECTION III - TEMPORARY CHANGES and TEMPORARY CHANGES CORRECTED

This section contains temporary changes and corrections to Aids to Navigation for this edition. When charted aids are temporarily relocated for dredging, testing, evaluation, or marking an obstruction, a temporary correction shall be listed in Section IV giving the

new position.

TEMPORARY CHANGES

LLNR	Aid Name	Status	Chart No.	BNM Ref.	LNM St	LNM End
28600	Kaunakakai Harbor Lighted Buoy 2	TRLB	19353		26/17	
29180	Honolulu Harbor Channel Lighted Buoy 1	RELOCATED FOR DREDGING	19367	253-20	38/20	
29195	Honolulu Harbor Channel Lighted Buoy 2	RELOCATED FOR DREDGING	19367	253-20	38/20	
29200	Honolulu Harbor Channel Buoy 3	DISCONTINUED FOR DREDGING	19367		07/21	
29205	Honolulu Harbor Channel Buoy 4	DISCONTINUED FOR DREDGING	19367		07/21	
29210	Honolulu Harbor Channel Lighted Buoy 5	RELOCATED FOR DREDGING	19367	253-20	38/20	

TEMPORARY CHANGES CORRECTED

LLNR	Aid Name	Status	Chart No.	BNM Ref.	LNM St	LNM End

None

PLATFORM TEMPORARY CHANGES

Name	Status	Position	BNM Ref.	LNM St	LNM End

None

PLATFORM TEMPORARY CHANGES CORRECTED

Name	Status	Position	BNM Ref.	LNM St	LNM End

None

SECTION IV - CHART CORRECTIONS

None

OIL RIG MOVEMENT

Drill Rigs/Vessels Removed

Latitude	Longitude	Block	Rigs/Vessel	Chart	Type	Status

None

Drill Rigs/Vessels Established

Latitude	Longitude	Block	Rigs/Vessel	Chart	Type	Status

None

SECTION V - ADVANCE NOTICES

This section contains advance notice of approved projects, changes to aids to navigation, or upcoming temporary changes such as dredging, etc. Mariners are advised to use caution while transiting these areas.

SUMMARY OF ADVANCED APPROVED PROJECTS

Approved Project(s)	Project Date	Ref. LNM

None

Advance Notice(s)

MARIANA ISLANDS - GUAM - RELOCATION (18/20)

In order to provide a more efficient and effective Aid to Navigation signal, the Coast Guard will be making the following changes after June 29, 2020: Relocate Ritidian Point Light, LLNR 30660 in approximate position 13-39-00.504N/144-51-42.678E to 13-39-00.395N/144-51-42.475E, showing FL W 6s, 9nm nominal range.

HI ISLANDS - KAUAI - TEMPORARY DISCOUNTINUATION OF ATON (08/21)

Starting mid-April, 2021 the U.S. Coast Guard will temporarily discontinue/remove two buoys in Hanapepe Bay, Kauai from their assigned position to accommodate upcoming USACE dredging operations.

1. Hanapepe Bay Lighted Buoy 3 (LLNR 29885)
2. Hanapepe Bay Buoy 5 (LLNR 29890)

Questions and concerns should be directed to USCG Sector Honolulu (808) 842-2600.

See Enclosure 6.

SECTION VI - PROPOSED CHANGES

Periodically, the Coast Guard evaluates its system of aids to navigation to determine whether the conditions for which the aids to navigation were established have changed. When changes occur, the feasibility of improving, relocating, replacing, or discontinuing aids are considered. This section contains notice(s) of non-approved, proposed projects open for comment. SPECIAL NOTE: Mariners are requested to respond in writing to the District office unless otherwise noted (see banner page for address).

PROPOSED WATERWAY PROJECTS OPEN FOR PUBLIC COMMENT

Proposed Project(s)	Closing	Docket No.	Ref. LNM
None			

Proposed Change Notice(s)

MARIANA ISLANDS - GUAM - RELOCATION (24/20)

In order to provide a more efficient and effective Aid to Navigation signal, the Coast Guard proposes the following Aid to Navigation Change at Ritidian Point: Relocate Ritidian Point Light, LLNR 30660 in approximate position 13-39-00.504N/144-51-42.678E to 13-39-00.395N/144-51-42.475E, showing FL W 6s, 9nm nominal range.

HI ISLANDS - OAHU - ATON OUTAGE (08/21)

Due to unreliable commercial power at Makapuu Point Light (LLNR 28925), the Coast Guard intends to convert the power supply to solar and battery power. The Coast Guard welcomes public comment on a proposal to change the primary light characteristic from lighted throughout 24 hours, to a night-only light, in order to reduce the size of the required solar and battery system. Please contact Chief Joshua Williams, Aids to Navigation Team Honolulu, at (808) 842-2851, or via email at joshua.d.williams@uscg.mil, to comment.

SECTION VII - GENERAL

This section contains information of general concern to the Mariners. Mariners are advised to use caution while transiting these areas.

DEPARTMENT OF HOMELAND SECURITY - REPORTS OF SUSPICIOUS ACTIVITIES (33/05)

The Department of Homeland Security (DHS) encourages the maritime public to report information concerning suspicious activity to their local Federal Bureau of Investigation (FBI) Joint Terrorism Task Force (JTTF) office, http://www.fbi.gov/contact/fo/fo.htm, or to other appropriate authorities. Individuals can contact the DHS watch and warning unit at (202) 323-3205, toll free at 1-888-585-9078, or by e-mail to nipc.watch@fbi.gov. The U.S. Coast Guard reminds the maritime industry that they may also report information concerning suspicious activity to the National Response Center (NRC) at 1-800-424-8802.

PUBLICATION - U.S. COAST PILOT 10 - NEW EDITION (23/20)

PUBLICATION–National Oceanic Atmospheric Administration (NOAA)– U.S. Coast Pilot 10, Pacific Coast:
Oregon, Washington, Hawaii and Pacific Islands, 1st Edition, 2020, has been issued and is ready for free download and weekly updates at www.nauticalcharts.noaa.gov/publications/coast-pilot/index.html.

Only Print-on-Demand (POD) bound copies are available for purchase; visit www.nauticalcharts.noaa.gov/publications/print-agents.html#coast-pilot

The 2020 Edition cancels the preceding 2019 Edition, and incorporates all previous corrections.

PRINTABLE DIGITAL FILES OF UP-TO-DATE NOAA NAUTICAL CHARTS (25/11)

NOAA's Office of Coast Survey provides up-to-date digital files of the NOAA nautical charts for federal agencies to use in performing the nation's business. Agencies may download the files and plot them or have them plotted under agency control. Send an e-mail from an official government address with a .gov or .mil extension to NauticalCharts@NOAA.gov for details. NOTE: Use of these files is limited to federal government agencies.

All other users of NOAA charting products should continue to receive them from their regular suppliers. See www.NauticalCharts.NOAA.gov for information.

NOAA - RASTER NAVIGATIONAL CHARTS SERVICE RESUMES (24/08)

NOAA has resumed its full service of providing free weekly updates and new editions of RNCs via the Internet at http://www.nauticalcharts.noaa.gov. A list of certified RNC distributors is also available at the above Internet site. Address questions to NOAA at http://ocsdata.ncd.noaa.gov/idrs/inquiry.aspx.

LOCAL NOTICE TO MARINERS - AUTOMATIC NOTIFICATION SERVICE (34/08)

The USCG publishes the Local Notice to Mariners (LNM) exclusively over the internet in order to improve service and reduce costs. The LNM can be found at https://www.navcen.uscg.gov/?pageName=lnmMain.

Users may now sign up to receive automatic notices via email when current information pertaining to the Local Notice to Mariners, Light List, Summary of Corrections, and other maritime related information is posted. To sign up for this automatic notification service, please visit https://www.navcen.uscg.gov/index.php?pageName=LNMlistRegistration. Registration is free.

HI ISLANDS - DGPS STATUS (33/05)

To obtain status updates of the Differential GPS broadcast sites at Upolu Point, and Kokole Point, HI, contact the Navigation Information Services Watchstander at (703) 313-5900 or via email at email: tis-pf-nisws@uscg.mil.

ELECTRONIC CHART DISPLAY INFORMATION SYSTEM (ECDIS) - ERROR (18/10)

Mariners are advised that ELECTRONIC CHART DISPLAY INFORMATION SYSTEM (ECDIS) may not display some isolated shoal depths when operating in "Base or Standard Display" mode. Route planning and monitoring alarms for these shoal depths may not always be activated. To ensure safe navigation and to confirm that a planned route is clear of such dangers, mariners should visually inspect the planned route and any deviations from it using ECDIS configured to display "ALL DATA". The automated voyage planning check function should not be solely relied upon. NOAA has updated the following ENC's to resolve this issue:

US4HA51
US5HA54
US5HA55
US5HA53

PRIVATE AIDS TO NAVIGATION (01/08)

The term private aids to navigation (ATON) includes all marine aids to navigation operated in the navigable waters of the United States other than those operated by the Federal Government. Private ATON includes lighted structures and day beacons, lighted and unlighted buoys, RACONs and fog signals. Almost half of the aids to navigation established in the Fourteenth District are operated and maintained by private interests. These interests include private citizens, marina and yacht clubs, municipal and state governments, construction and dredging companies, research and non-profit organizations, beachfront associations, and large industrial concerns.

No person, public body or instrumentality not under the control of the Commandant, exclusive of the Armed Forces, shall establish and maintain, discontinue, change or transfer ownership of any aid to maritime navigation, without first obtaining permission to do so from the Commandant and the Army Corps of Engineers.

Owners contemplating establishing such buoys should review CFR 33 Part 66 and contact the appropriate authority, usually the Army Corps of Engineers, to determine what additional requirements may exist. Additionally, private aids on navigable waters regulated by the federal government require either a Coast Guard permit or Coast Guard letter of no objection. The application for a letter of no objection or for a permit, form CG-2554, can be obtained by writing or faxing the Private ATON Manager at the address and phone number given below, or via the website at http://www.uscg.mil/d14/cmd/dp/dpw/.

The Private ATON Manager provides applicants assistance in processing their paperwork. Federal regulations governing aids to navigation, copies of permits previously issued to the applicant, illustrations of standard markings, and lists of commercial ATON manufacturers are available. Questions and requests should be directed to:

Commander (dpw)
Fourteenth Coast Guard District
300 Ala Moana Boulevard, 9-216
Honolulu, HI 96850-4982
Attn: Private ATON Manager
Tel: (808) 535-3408
Fax: (808) 535-3404

U.S. Army Corps of Engineers
Honolulu District
Building 230
Ft. Shafter, HI 96858-5440
Attn: CEPOH-EC-R
Phone: (808)-835-4004

Mariners are reminded that they have a responsibility to report discrepant private aids to the nearest Coast Guard unit. The failure of a mariner to report a discrepant aid to navigation may result in casualties to others. All aids to navigation in the Fourteenth District, both private and federally maintained, are user monitored. When owners receive discrepancy reports from the Coast Guard, they are obligated to take immediate action to correct the discrepancy. Owners are reminded of their responsibility for the proper operation and maintenance of their private aids to navigation. All classes of private aids to navigation shall be maintained in proper operating condition. They are subject to inspection by the Coast Guard at any time and without prior notice. The Coast Guard issues broadcast notice to mariners for reported discrepancies that remain in effect until the

discrepancy is corrected or is published in the Local Notice to Mariners.

FISH AGGREGATING DEVICE (FAD) BUOY INFORMATION AND DISCREPANCIES (33/05)

The State of Hawaii has placed Fish Aggregating Devices (FADs) in the waters surrounding the main Hawaiian Islands. These buoys attract schools of tuna and other important pelagic fishes, such as dolphinfish (Mahimahi), wahoo (Ono) and billfish. FADs allow fishermen to easily locate and catch these species. The buoys are anchored using approximately 2.5 miles of mooring line which creates a very large swing circle. Mariners are advised that these buoys may maneuver anywhere from three to five miles from their charted positions.

Mariners requesting up to date information concerning Hawaiian Island's FAD Buoys, or reports of discrepancies, may either visit the Hawaii FAD web site at http://www.himb.hawaii.edu/fads, contact Mr. Warren Cortez at (808) 956-0684, or send written correspondence to:
Mr. Warren Cortez
Fish Aggregating Devices Program
965 N. Nimitz Hwy
Honolulu, HI 96817

Mariners requesting up to date information concerning Guam's FAD Buoys, or reports of discrepancies, may either visit the Guam FAD web site at www.dawr.guam.gov, contact Mr. Brent Tibbatts at Brent.Tibbatts@gmail.com 671.735.3955/56 , or send written correspondence to:
Mr. Brent Tibbatts
Guam Department of Agriculture
Division of Aquatics and Wildlife Resources
163 Dairy Road
Mangilao, Guam 96913

NAVIGATION INTERNET SITES (33/05)

Chart Corrections: http://nauticalcharts.noaa.gov/mcd/updates/index.htm
Light List Corrections: https://www.navcen.uscg.gov/index.php?pageName=lightLists
Coast Pilot Corrections: http://nauticalcharts.noaa.gov/nsd/cpdownload.htm
NOAA Weather Buoy Sites: http://www.ndbc.noaa.gov/Maps/rmd.shtml
Hawaii Weather: http://www.prh.noaa.gov/pr/hnl/
Online Chart Viewer: http://www.nauticalcharts.noaa.gov/mcd/OnLineViewer

(For NOAA Print-on-Demand (POD) charts only)

NOAA and Coast Survey, in partnership with OceanGrafix, LLC, offer mariners official nautical charts that are continuously updated by NOAA cartographers up to the latest Notice to Mariners and to all Critical Safety Information known to the Coast Survey in advance of its publication in a Notice. From NOAA digital files, OceanGrafix prints corrected charts, to order, for sale to mariners through the Oceangrafix retail network. Produced and distributed by authority of NOAA, these charts meet all U.S. Coast Guard chart carriage requirements, including the requirements for updating (Titles 33 & 46 CFR). New Editions are available 2-8 weeks before their release as a traditional NOAA chart.

These new charts feature operational information for the commercial mariner, and education and safety information for the recreational boater. They have brighter colors and a higher contrast for better readability in various light conditions. They come either laminated or on water resistant paper.

POD charts are available through a POD chart agents at http://OceanGrafix.com/, 1-877-56CHART, or contact NOAA at http://nauticalcharts.noaa.gov/pod/Pod.htm. For questions contact NOAA at help@nauticalcharts.gov.

QUARTERLY UPDATES TO THE NOAA TIDE PREDICTIONS SERVICE (28/12)

NOAA, National Ocean Service's and Center for Operational Oceanographic Products and Services (CO-OPS) provides electronic tide predictions for more than 3000 locations around the United States, Caribbean and the Pacific Islands as part of the NOAA Tide Predictions service of the CO-OPS Tides & Currents website.

http://tidesandcurrents.noaa.gov

NOAA Tide Predictions service uses the most up-to-date information available in order to provide accurate tide predictions. Updates to the predictions provided by NOAA Tide Predictions service, based on newly obtained or analyzed data, are released quarterly.

Previous quarterly updates, are available through the NOAA Tide Predictions service of the CO-OPS Tide & Currents website. For additional information, please contact CO-OPS via e-mail at Tide.Predictions@noaa.gov or (301)713-2815.

HI ISLANDS - U.S. DEPARTMENT OF HOMELAND SECURITY - DIVER SAFETY ADVISORY (25/09)

This advisory is issued to increase the safety of all open water and waterway users throughout the Hawaiian Islands and is issued in conjunction with the Department of Land and natural Resources (DLNR) pilot program focusing on diver safety.

Over the years there have been an increased number of reports of near misses between divers and waterborne crafts in Oahu, Maui and Hawaii. In most cases, these near misses have happened in near coastal waters and often when conditions were choppy.

The following suggested measures can help avoid near misses:
Become familiar with your transit route and destination area before heading out.
Remain vigilant of your surroundings and post extra lookouts in choppy waters and inclement weather.

HI ISLANDS - U.S. DEPARTMENT OF HOMELAND SECURITY - DIVER SAFETY ADVISORY (25/09)

Stay clear of federal Aids to Navigation and commercial delineated channels.
Use all appropriate sound and visual signals.
Postpone trips until the weather and sea conditions improve.

All open water and waterway users are also highly encouraged to visit the Coast Guard Sector Honolulu Homeport website for Safety and Security Zone information for the Hawaiian Islands at: http://homeport.uscg.mil/ under the Honolulu Port Directory tab and Safety and Security section.

The most updated charts for the Hawaiian Islands can be found on the National Oceanic and Atmospheric Administration (NOAA) website: http://www.prh.noaa.gov/pr/hnl or http://www.nauticalcharts.noaa.gov/mcd/OnLineViewer.html.

Any and all life threatening or hazardous conditions including off station or missing buoys should be reported immediately to the U.S. Coast Guard at (808) 842-2600.

PACIFIC OCEAN - NATIONAL WILDLIFE REFUGE - RESTRICTED FOR ENTRY (22/11)

The U.S. Department of the Interior, Fish and Wildlife Service, National Wildlife Refuge System, Pacific Reefs National Wildlife Refuge Complex manages ten National Wildlife Refuges within the Fourteenth Coast Guard District. Eight of these Refuges, described below, consist of waters and submerged and emergent lands. The remaining two Refuges, the Marianas Arc of Fire and the Mariana Trench National Wildlife Refuges, consist only of submerged lands.

The waters and submerged and emergent lands of National Wildlife Refuges are subject to the regulations governing the National Wildlife Refuge System found in Parts 25-32 of Title 50, Code of Federal Regulations. Therefore, except as provided by international law, these areas are closed to all forms of entry, other than innocent passage, unless specifically authorized by a Special Use Permit issued by the U.S. Fish and Wildlife Service. Should you have any questions, please contact the Pacific Reefs National Wildlife Refuge Complex by emailing the Project Leader at Pacific_Reefs@fws.gov or by calling 808-792-9560.

Baker Island National Wildlife Refuge. This Refuge includes all of Baker Island approximately at Latitude 0-11-45 North and Longitude 176-28-45 West, together with its territorial waters extending outward 12 nautical miles (13.8 mi; 22.2 km) from the mean low water line of the island.

Howland Island National Wildlife Refuge. This Refuge includes all of Howland Island approximately at Latitude 0-48-30 North and Longitude 176-37 West, together with its territorial waters extending outward 12 nautical miles (13.8 mi; 22.2 km) from the mean low water line of the island.

Jarvis Island National Wildlife Refuge. This Refuge includes all of Jarvis Island approximately at Latitude 0-22-20 South and Longitude 160-00 West, together with its territorial waters extending outward 12 nautical miles (13.8 mi; 22.2 km) from the mean low water line of the island.

Johnston Atoll National Wildlife Refuge. This Refuge includes all of Johnston Atoll approximately at Latitude 16-44 North and Longitude 169-31 West, together with its territorial waters extending outward 12 nautical miles (13.8 mi; 22.2 km) from the mean low water line of the atoll. However, portions of the emergent land at Johnston Atoll are currently under the administrative jurisdiction of the Department of the Air Force, which controls all access to areas under its administrative jurisdiction.

Kingman Reef National Wildlife Refuge. This Refuge includes all of Kingman Reef approximately at Latitude 6-24-30 North and Longitude 162-23-30 West, together with its territorial waters extending outward 12 nautical miles (13.8 mi; 22.2 km) from the mean low water line of the reef.

Palmyra Atoll National Wildlife Refuge. This Refuge includes all of Palmyra Atoll approximately at Latitude 05-53 North and Longitude 162-05 West, together with its territorial waters extending outward 12 nautical miles (13.8 mi; 22.2 km) from the mean low water line of the atoll. However, portions of the emergent land at Palmyra Atoll are currently owned and managed as a nature preserve by The Nature Conservancy, which controls all access to areas under its ownership.

PACIFIC OCEAN - NATIONAL WILDLIFE REFUGE - RESTRICTED FOR ENTRY CONTINUED (22/11)

Rose Atoll National Wildlife Refuge. This Refuge includes all of Rose Atoll approximately at Latitude 14-32-45 South and Longitude 168-9-24 West, the seaward extent being the extreme low water line outside the perimeter reef except at the entrance channel where the boundary is a line extended between the extreme low water lines on each side of the entrance channel.

Wake Atoll National Wildlife Refuge. This Refuge includes all of Wake Atoll approximately at Latitude 19-18 North and Longitude 166-38 East, together with its territorial waters extending outward 12 nautical miles (13.8 mi; 22.2 km) from the mean low water line of the atoll. However, in accordance with Presidential Proclamation No. 8336, the emergent land at Wake Atoll is currently under the management of the Department of the Air Force, which controls all access to areas under its management.

HI ISLANDS - KAHO`OLAWE ISLAND RESERVE COMMISSION - NOTICE OF OPEN WATERS SCHEDULE (05/21)

Notice to Trollers: The dates below mark the Open Waters Trolling Schedule for January 2021 through December 2021. Should you have any questions, please contact the Ocean Resources Program at the Kaho'olawe Island Reserve Commission (KIRC) by emailing the Ocean Resources Specialist at dtokishi@kirc.hawaii.gov or by calling 808-243-5022. This information is also posted on the KIRC website at http://kahoolawe.hawaii.gov.

12:01 a.m Saturdays to 11:59 p.m. Sundays as follows:

January 23 –24; 30 – 31
February 20 –21; 27 – 28
March 13 –14; 20 – 21
April 10 –11; 24 – 25
May 08 –09; 22 – 23
June 05 –06; 19 – 20
July 10 –11; 24 – 25

HI ISLANDS - KAHO`OLAWE ISLAND RESERVE COMMISSION - NOTICE OF OPEN WATERS SCHEDULE (05/21)

August 15 –15; 28 – 29
September 11 –12; 25 – 26
October 09 –10; 23 – 24
November 06 –07; 13 – 14
December 04 –05; 18 – 19

The Kaho'olawe Island Reserve (defined as the submerged lands and waters within two nautical miles of the island) is divided into two zones; Zones A and B. These zones are defined as:
Zone A: Includes the island of Kaho'olawe and all the submerged lands and waters between the shoreline of Kaho`olawe and the 30-fathom isobath surrounding Kaho'olawe (HAR 13-261). Unauthorized entry into Zone A is prohibited at all times except in case of emergency.
Zone B: All waters and submerged lands between the 30-fathom isobath surrounding Kaho'olawe and two nautical miles from the shoreline of the island. Unauthorized entry into Zone B is prohibited at all times except for trolling as authorized by KIRC on the days stipulated by the Open Waters Schedule as listed above or in case of emergency. Trollers must remain underway, making way at all times while in Zone B. All lures or live bait must remain on the water surface. All other fishing, ocean recreation, and any other activities are strictly prohibited. All vessels fishing in the Kaho'olawe Island Reserve during the open trolling weekends are required by state law (H.A.R. 13-261) to register and submit catch reports to the KIRC. KIRC will be implementing its new registration and catch report system beginning January 2007. For more information on how to register and where to submit your catch reports, call 808-243-5889.
Warning: Kaho'olawe and its surrounding submerged lands and waters contain unknown quantities of unexploded ordnance that are hazardous to public health and safety.
Authority: (H.R.S. §6K, H.A.R. §13-261).

HI ISLANDS - OAHU - KANEOHE BAY - MILITARY OPERATIONS (09/09)

Military amphibious and search and rescue operations may be underway at any time, day or night, within Kaneohe Bay in the vicinity of 21-26-06.83N/157-46-11.00W and 21-26-45.00N/157-46-55.00W (approximately .5 NM south of Mokapu Peninsula). Support surface craft will be equipped with appropriate day/night signals and markings and can be reached on VHF-Ch 82. In the interest of saftey, it is requested that all vessels that use Sonar contact Water Front Operations on VHF-Ch 82A or by phone at (808) 257-2941 to avoid injury to divers that may be in the area.

HI ISLANDS - SOUTH COAST OAHU - HAZARDOUS OPERATIONS - HOT AREAS (50/07)

FACSFAC Pearl Harbor established Special Operating Areas Four (SOA-4) as a permanent "HOT AREA" named "KAPU" on April 15, 1995. FACSFAC effective hours are 0700W to 2300W (Monday - Saturday from 1700Z - 0900Z) Monday - Friday, and on weekend's 0800W - 1600W (Weekends from 1800Z - 0200Z) or by request. Activities include intermittent naval gunnery exercises and airborne ordnance drops. "KAPU" is also designated as the emergency jettison area for aircraft with hung stores, etc. Hot area "KAPU" is bounded by the following coordinates 20-46N/158-16W, 20-42 N/158-04W, 20-13N/158-36W and 20-04N/158-11W. Scheduling authority is FACSFAC Pearl Harbor call-sign "HULA DANCER". "HULA DANCER" can be reached on primary 266.4/127.0 MHz, or secondary 336.8/132.4 MHZ or telephone (808) 472-7333/7337 and may authorize transits through these areas on a case by-case basis.

HI ISLANDS - OAHU - KANEOHE BAY - ULUPAU CRATER WEAPONS DANGER ZONE - HAZARDOUS OPERATIONS (18/07)

The Ulupau Crater Weapons Training Range Danger Zone encompasses a sector extending seaward for 3.8 nautical miles between radial lines bearing 001 and 129 degrees true, from a point on Mokapu Peninsula at 21-27-10N/ 157-43-45W. Whenever live firing is scheduled and in progress during daylight hours, two large red triangular warning pennants will be flown on the shore at Ulupau Crater. Whenever any weapons firing is scheduled and in progress during periods of darkness, flashing red warning beacons will be displayed on the shore at Ulupau Crater. Boaters will have complete access to the Danger Zone whenever weapons firing is not scheduled, which will be indicated by the absence of any warning flags, pennants, or beacons displayed ashore. The danger zone is considered unsafe for mariners whenever live firing is in progress; in such cases boaters shall vacate the zone at best speed and by the most direct route. However, vessels are permitted to expeditiously pass through the danger zone when live firing is in progress; all firing would be temporarily suspended until the vessel has cleared the zone. Additional information may be obtained by calling the MCBH Range Manager (AC/S G-3) at (808) 257-8816/17.

The following are hazardous operations to mariners for March 03, 2021 through March 09, 2021:

Zone 1 (NE Range)
Mar 03 0600W - 2300W
Mar 04 0730W - 1630W
Mar 05 0730W - 1630W
Mar 06 N/A
Mar 07 0900W - 1700W
Mar 08 0600W - 2300W
Mar 09 0600W - 2300W

Zone 2 (E Range)
Mar 03 0800W - 1700W
Mar 04 1100W - 1500W
Mar 05 0900W - 1200W
Mar 06 N/A
Mar 07 N/A
Mar 08 0800W - 1830W
Mar 09 0800W - 1830W

See enclosure 1

HI ISLANDS - OAHU - KEAHI POINT - HAZARDOUS OPERATIONS (18/07)

The Puuloa Dan ger Zone is located in ocean waters as described by the below coordinates and is closed at all times to surface craft, swimmers, and divers, with the exception of authorized personnel.
Additional information may be obtained by contacting Daniel Geltmacher at daniel.geltmacher@usmc.mil.
The Danger Zone is bounded by the following coordinates:

21-18-21N/ 157-59-14W
21-18-11N/ 158-00-17W
21-17-11N/ 158-00-06W
21-17-22N/ 157-59-03W

The following are hazardous operations to mariners for March 03, 2021 through March 09, 2021:

Mar 03 N/A
Mar 04 0700W - 1500W
Mar 05 0700W - 1500W
Mar 06 N/A
Mar 07 N/A
Mar 08 0700W - 1700W
Mar 09 0700W - 1700W

HI ISLANDS - KAUAI - BARKING SANDS - PACIFIC MISSILE RANGE FACILITY HI AREA - HAZARDOUS OPERATIONS (06/13)

Intermittent missile firing operations are conducted by the Pacific Missile Range Facility (PMRF), Barking Sands, Kauai, in the Whiskey 188 (W-188) operating area. Operations are conducted periodically throughout each week in an area bound by the following coordinates:

22:00N/159:51W, 22:00N/160:00W, 22:04N/160:06W, 21:59.5N/160:21W, 22:05N/161:35W, 22:45N/161:25W, 22:56N/161:49W, 23:34N/161:18.6W, 23:57N/160:41W, 25:41N/161:36W, 26:00N/159:58W, 25:47N/158:15W, 23:54N/158:15W, 22:20N/159:09W, 22:21N/159:30W, 22:13N/159:42W, 22:00N/159:51W

Intermittent high power radar operations are conducted by PMRF at the following position: 22:03N/159:47W

Request all mariners remain at least one mile off the coastline between Kokole Point and Nohili Point.

Vessels may be requested to alter course due to firing operations and are requested to contact "Pacific Missile Range Facility" on HF 2182 KHz or VHF-Ch 16 prior to entering the above boundaries. If unable to contact the PMRF prior to entering or while in the warning area, relay messages through U.S. Coast Guard Honolulu. Vessels inbound and outbound for Hawaiian ports will create the least interference to firing operations as well as enhance vessel's safety by passing South of the Islands of Kauai and Niihau during the specified times. Federal law provides for civil penalties of $40,000 and/or criminal penalties of 6 years in prison for each violation of the PMRF safety zone during the schedule of designated activity (33CFR 165.1406).

The following are hazardous operations to mariners for March 03, 2021 through March 10, 2021:

Mar 03 No Hazardous Operations Scheduled.
Mar 04 No Hazardous Operations Scheduled.
Mar 05 No Hazardous Operations Scheduled.
Mar 06 No Hazardous Operations Scheduled.
Mar 07 No Hazardous Operations Scheduled.
Mar 08 No Hazardous Operations Scheduled.
Mar 09 No Hazardous Operations Scheduled.
Mar 10 No Hazardous Operations Scheduled.

MARINE EVENTS

This section contains information of general concern to the mariner. All event forms must be received no later than noon on Tuesday a week prior to the event. Mariners are advised to use caution while transiting these areas:

SECTION VIII - LIGHT LIST CORRECTIONS

An Asterisk *, indicates the column in which a correction has been made to new information

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
None							

PUBLICATION CORRECTIONS

None

ENCLOSURES

HI ISLANDS - OAHU - KANEOHE BAY HAZARDOUS OPERATIONS (18/07)

ULUPAU CRATER WEAPONS DANGER ZONE

HI ISLANDS - OAHU - HONOLULU HARBOR DREDGE (03/21)

USACE HONOLULU HARBOR DREDGE PROJECT

HI ISLANDS - OAHU - WAIKIKI BEACH MAINTENANCE (04/21)

WAIKIKI BEACH MAINTENANCE

HI ISLANDS - OAHU - WAIKIKI BEACH MAINTENANCE (04/21)

HDPE DRAWING WITH 82 BARGE

HI ISLANDS - OAHU - WAIKIKI BEACH MAINTENANCE (04/21)

WAIKIKI LOCATION

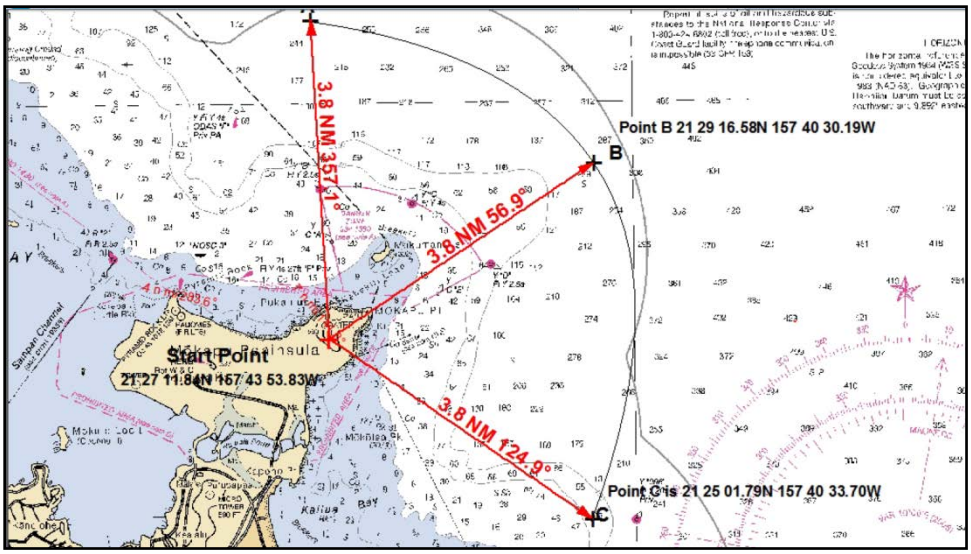
M. Sibley
Rear Admiral, U.S. Coast Guard
Commander, Fourteenth Coast Guard District

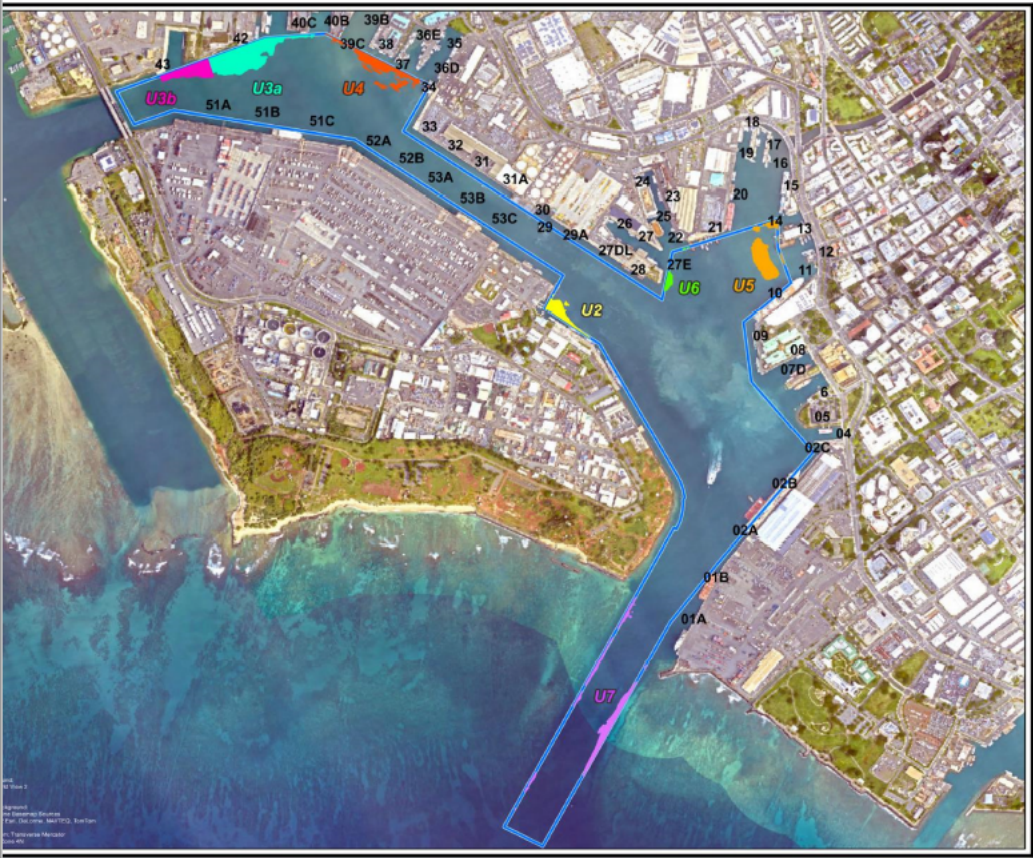
Danger Zone - Hawaii-Ulupau Crater Weapons Training (Kaneohe Bay)

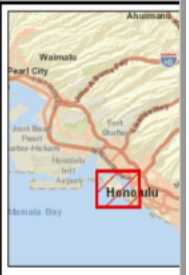
Mariners are reminded that the Marine Corps Base Hawaii (MCBH) conducts intermittent weapons firing at the Ulupau Crater Weapons Training Range between 6 a.m. and 11 p.m. throughout the week & weekends. Caution transiting the waters off of Mokapu Penninsula is imperative at all times, including the 500 yard prohibited area surrounding MCBH. Periods of live firing will be indicated on shore at Ulapau crater either by two large red triangular warning pennants during the day or flashing red warning beacons at night. When these signals are present, the danger zone is not considered safe for boaters. Information on weapons firing schedules may be obtained by calling the MCBH Range Manager at 808-257-8816/17.

The 33 CFR 334.1380 Army Corp of Engineers established Danger Zone includes the area within a pie-shaped sector extending seaward a distance of 3.8 nautical miles between radial lines bearing 357.1° true and 124.9° true, respectively, from a starting point on Mokapu Peninsula at 21°27′11.84″ N, 157°43′53.83″ W. The danger zone is bounded by a landward starting point and three seaward points forming an arc with a 3.8 nautical-mile radius at its center (Point B) with a radial line bearing 56.9° true. The three seaward points have the following coordinates:

Point A: Latitude 21°30′59.66″ N, Longitude 157°44′05.97″ W
Point B: Latitude 21°29′16.58″ N, Longitude 157°40′30.19″ W
Point C: Latitude 21°25′01.79″ N, Longitude 157°40′33.70″ W







Legend

Federal Channel I

01A Pier Numbers

Dredge Areas

- U2
- U3a
- U3b
- U4
- U5
- U6
- U7

0 400 800 1,600

SITE PLAN

HONOLULU HARE

U.S. ARMY CORPS OF E
HONOLULU DISTRICT

20

Enclosure3

NOTES:

1. SAND RECOVERY WORK AREAS A AND B ARE DELINEATED BY STRAIGHT LINES BETWEEN POINTS A–1 TO A–11 AND B–1 TO B–6, RESPECTIVELY. ALL SAND RECOVERY WORK, INCLUDING DREDGING AND MOORING OF VESSELS AND EQUIPMENT, SHALL BE CONTAINED WITHIN THE DESIGNATED RECOVERY AREA BOUNDARIES. NO DREDGING OR ANCHORING SHALL BE CONDUCTED OUTSIDE OF THE DESIGNATED AREAS. COORDINATES LISTED ARE IN NAD83 HAWAII STATE PLANE, ZONE 3, FEET.

POINT	EASTING COORDINATE	NORTHING COORDINATE
A–1	1698710.97	38896.68
A–2	1699199.66	38444.78
A–3	1699060.29	37757.55
A–4	1698868.49	37799.06
A–5	1698987.70	37968.11
A–6	1698848.20	38301.00
A–7	1698655.52	38346.09
A–8	1698682.43	38454.16
A–9	1698607.99	38470.22
A–10	1698537.15	38373.79
A–11	1698282.46	38433.39
B–1	1697622.70	38078.00
B–2	1697788.40	37979.98
B–3	1698117.77	38034.94
B–4	1698108.31	37634.69
B–5	1697602.69	37729.99
B–6	1697322.32	37869.40

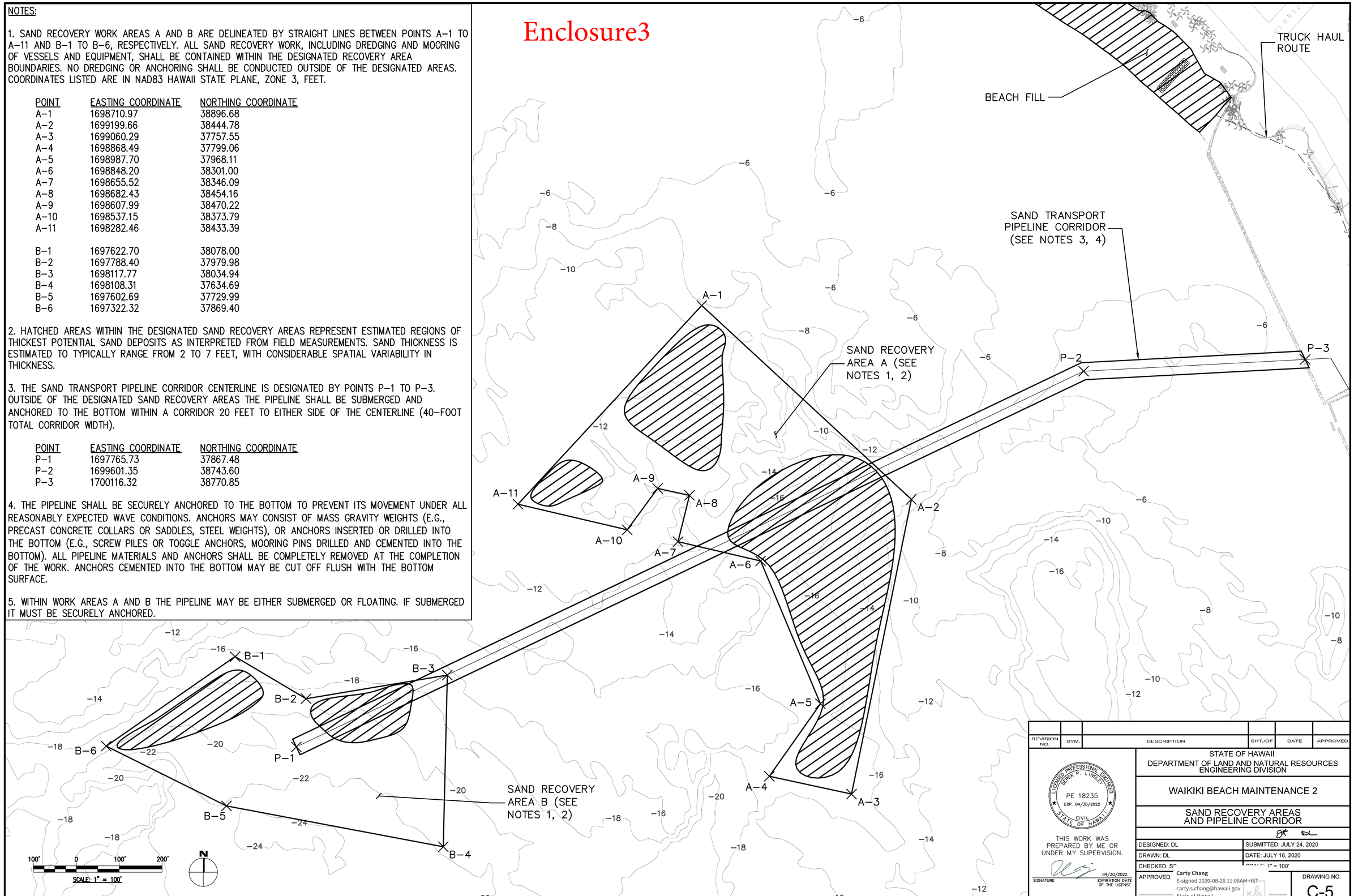
2. HATCHED AREAS WITHIN THE DESIGNATED SAND RECOVERY AREAS REPRESENT ESTIMATED REGIONS OF THICKEST POTENTIAL SAND DEPOSITS AS INTERPRETED FROM FIELD MEASUREMENTS. SAND THICKNESS IS ESTIMATED TO TYPICALLY RANGE FROM 2 TO 7 FEET, WITH CONSIDERABLE SPATIAL VARIABILITY IN THICKNESS.

3. THE SAND TRANSPORT PIPELINE CORRIDOR CENTERLINE IS DESIGNATED BY POINTS P–1 TO P–3. OUTSIDE OF THE DESIGNATED SAND RECOVERY AREAS THE PIPELINE SHALL BE SUBMERGED AND ANCHORED TO THE BOTTOM WITHIN A CORRIDOR 20 FEET TO EITHER SIDE OF THE CENTERLINE (40–FOOT TOTAL CORRIDOR WIDTH).

POINT	EASTING COORDINATE	NORTHING COORDINATE
P–1	1697765.73	37867.48
P–2	1699601.35	38743.60
P–3	1700116.32	38770.85

4. THE PIPELINE SHALL BE SECURELY ANCHORED TO THE BOTTOM TO PREVENT ITS MOVEMENT UNDER ALL REASONABLY EXPECTED WAVE CONDITIONS. ANCHORS MAY CONSIST OF MASS GRAVITY WEIGHTS (E.G., PRECAST CONCRETE COLLARS OR SADDLES, STEEL WEIGHTS), OR ANCHORS INSERTED OR DRILLED INTO THE BOTTOM (E.G., SCREW PILES OR TOGGLE ANCHORS, MOORING PINS DRILLED AND CEMENTED INTO THE BOTTOM). ALL PIPELINE MATERIALS AND ANCHORS SHALL BE COMPLETELY REMOVED AT THE COMPLETION OF THE WORK. ANCHORS CEMENTED INTO THE BOTTOM MAY BE CUT OFF FLUSH WITH THE BOTTOM SURFACE.

5. WITHIN WORK AREAS A AND B THE PIPELINE MAY BE EITHER SUBMERGED OR FLOATING. IF SUBMERGED IT MUST BE SECURELY ANCHORED.



REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED

LICENSED PROFESSIONAL ENGINEER DEREK P. LINSLEY PE 18235 EXP. 04/30/2022 CIVIL STATE OF HAWAII

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SIGNATURE — 04/30/2022 EXPIRATION DATE OF THE LICENSE

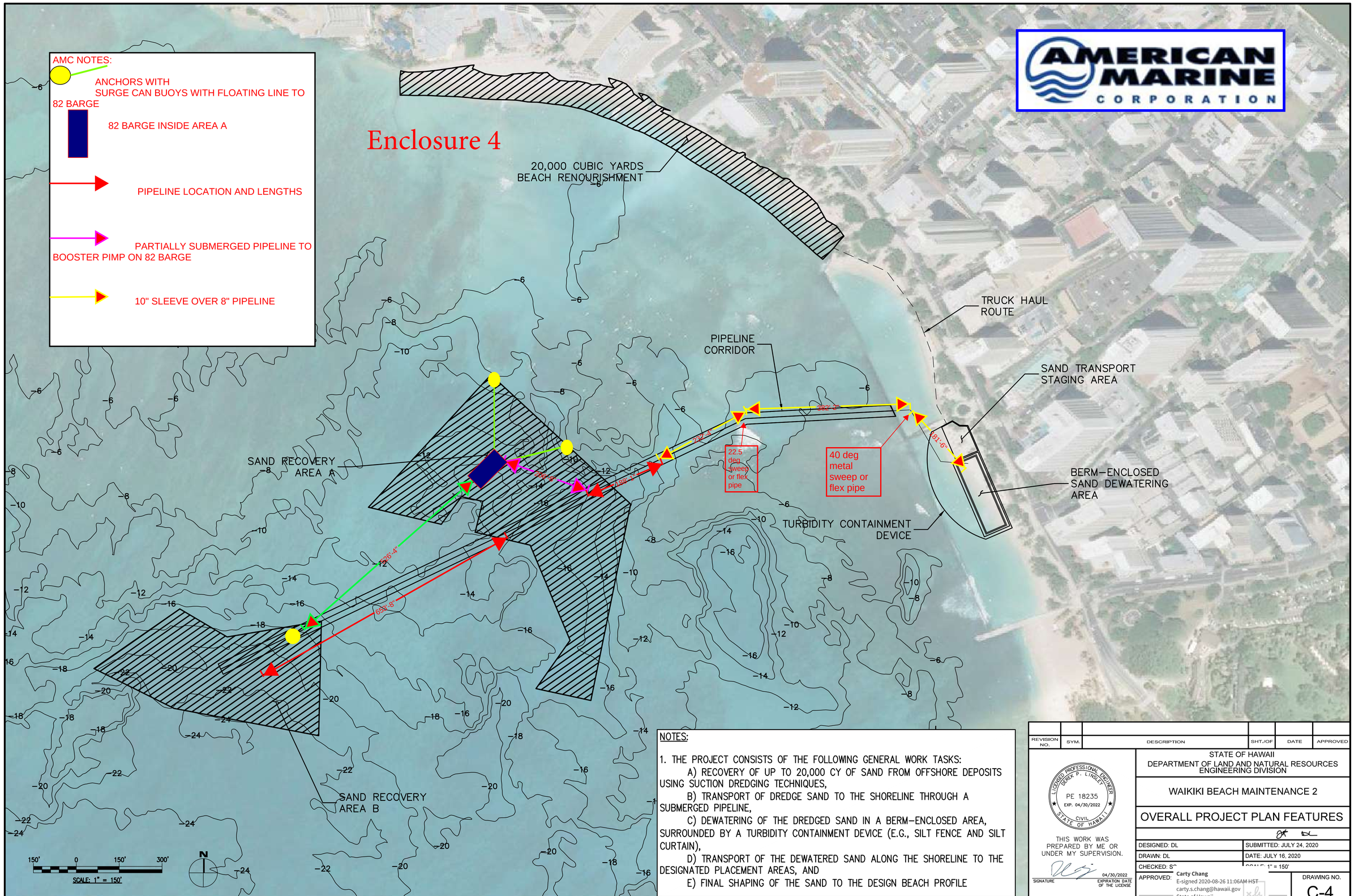
STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
ENGINEERING DIVISION

WAIKIKI BEACH MAINTENANCE 2

SAND RECOVERY AREAS AND PIPELINE CORRIDOR

DESIGNED: DL — SUBMITTED: JULY 24, 2020
DRAWN: DL — DATE: JULY 16, 2020
CHECKED: S^ — SCALE: 1" = 100'
APPROVED: Carty Chang, E-signed 2020-08-26 11:06AM HST, carty.s.chang@hawaii.gov, State of Hawaii, Chief Engineer — CHIEF ENGIN .TE

DRAWING NO. C-5



NOTES:

1. THE PROJECT CONSISTS OF THE FOLLOWING GENERAL WORK TASKS:
   A) RECOVERY OF UP TO 20,000 CY OF SAND FROM OFFSHORE DEPOSITS USING SUCTION DREDGING TECHNIQUES,
   B) TRANSPORT OF DREDGE SAND TO THE SHORELINE THROUGH A SUBMERGED PIPELINE,
   C) DEWATERING OF THE DREDGED SAND IN A BERM-ENCLOSED AREA, SURROUNDED BY A TURBIDITY CONTAINMENT DEVICE (E.G., SILT FENCE AND SILT CURTAIN),
   D) TRANSPORT OF THE DEWATERED SAND ALONG THE SHORELINE TO THE DESIGNATED PLACEMENT AREAS, AND
   E) FINAL SHAPING OF THE SAND TO THE DESIGN BEACH PROFILE

REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED

LICENSED PROFESSIONAL ENGINEER DEREK P. LINDLEY PE 18235 EXP. 04/30/2022 CIVIL STATE OF HAWAII

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SIGNATURE — 04/30/2022 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
ENGINEERING DIVISION

WAIKIKI BEACH MAINTENANCE 2

OVERALL PROJECT PLAN FEATURES

DESIGNED: DL — SUBMITTED: JULY 24, 2020
DRAWN: DL — DATE: JULY 16, 2020
CHECKED: S^ — SCALE: 1" = 150'
APPROVED: Carty Chang, E-signed 2020-08-26 11:06AM HST, carty.s.chang@hawaii.gov, State of Hawaii, Chief Engineer
CHIEF ENGIN ... TE

DRAWING NO. C-4

JOB NO. E00XO30E

STATE OF HAWAII

DEPARTMENT OF LAND AND NATURAL RESOURCES

ENGINEERING DIVISION

FOR

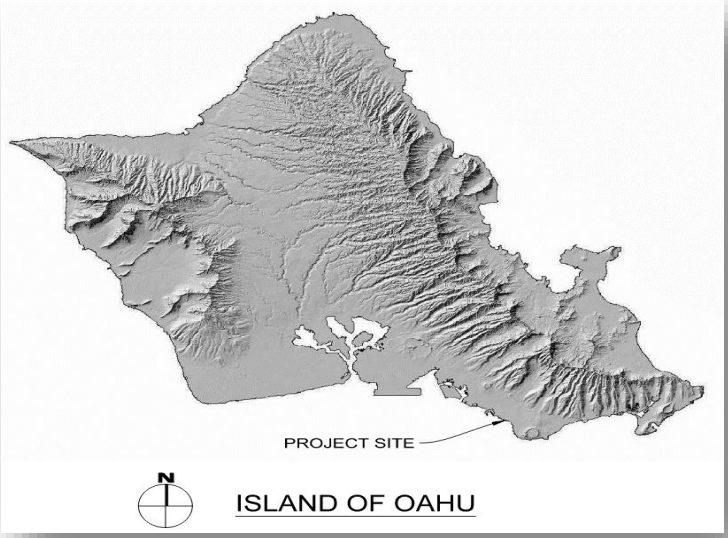
OFFICE OF CONSERVATION AND COASTAL LANDS

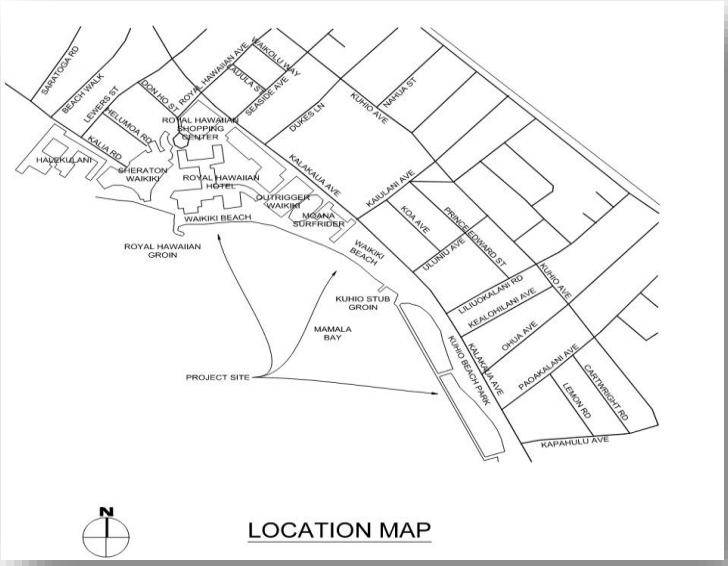
Enclosure 5

JOB NO. E00XO30E

WAIKIKI BEACH MAINTENANCE 2

HONOLULU, OAHU, HAWAII





NOTES:

1. SAND RECOVERY WORK AREAS A AND B ARE DELINEATED BY STRAIGHT LINES BETWEEN POINTS A–1 TO A–11 AND B–1 TO B–6, RESPECTIVELY. ALL SAND RECOVERY WORK, INCLUDING DREDGING AND MOORING OF VESSELS AND EQUIPMENT, SHALL BE CONTAINED WITHIN THE DESIGNATED RECOVERY AREA BOUNDARIES. NO DREDGING OR ANCHORING SHALL BE CONDUCTED OUTSIDE OF THE DESIGNATED AREAS. COORDINATES LISTED ARE IN NAD83 HAWAII STATE PLANE, ZONE 3, FEET.

POINT	EASTING COORDINATE	NORTHING COORDINATE
A–1	1698710.97	38896.68
A–2	1699199.66	38444.78
A–3	1699060.29	37757.55
A–4	1698868.49	37799.06
A–5	1698987.70	37968.11
A–6	1698848.20	38301.00
A–7	1698655.52	38346.09
A–8	1698682.43	38454.16
A–9	1698607.99	38470.22
A–10	1698537.15	38373.79
A–11	1698282.46	38433.39
B–1	1697622.70	38078.00
B–2	1697788.40	37979.98
B–3	1698117.77	38034.94
B–4	1698108.31	37634.69
B–5	1697602.69	37729.99
B–6	1697322.32	37869.40

Enclosure 5

2. HATCHED AREAS WITHIN THE DESIGNATED SAND RECOVERY AREAS REPRESENT ESTIMATED REGIONS OF THICKEST POTENTIAL SAND DEPOSITS AS INTERPRETED FROM FIELD MEASUREMENTS. SAND THICKNESS IS ESTIMATED TO TYPICALLY RANGE FROM 2 TO 7 FEET, WITH CONSIDERABLE SPATIAL VARIABILITY IN THICKNESS.

3. THE SAND TRANSPORT PIPELINE CORRIDOR CENTERLINE IS DESIGNATED BY POINTS P–1 TO P–3. OUTSIDE OF THE DESIGNATED SAND RECOVERY AREAS THE PIPELINE SHALL BE SUBMERGED AND ANCHORED TO THE BOTTOM WITHIN A CORRIDOR 20 FEET TO EITHER SIDE OF THE CENTERLINE (40–FOOT TOTAL CORRIDOR WIDTH).

POINT	EASTING COORDINATE	NORTHING COORDINATE
P–1	1697765.73	37867.48
P–2	1699601.35	38743.60
P–3	1700116.32	38770.85

4. THE PIPELINE SHALL BE SECURELY ANCHORED TO THE BOTTOM TO PREVENT ITS MOVEMENT UNDER ALL REASONABLY EXPECTED WAVE CONDITIONS. ANCHORS MAY CONSIST OF MASS GRAVITY WEIGHTS (E.G., PRECAST CONCRETE COLLARS OR SADDLES, STEEL WEIGHTS), OR ANCHORS INSERTED OR DRILLED INTO THE BOTTOM (E.G., SCREW PILES OR TOGGLE ANCHORS, MOORING PINS DRILLED AND CEMENTED INTO THE BOTTOM). ALL PIPELINE MATERIALS AND ANCHORS SHALL BE COMPLETELY REMOVED AT THE COMPLETION OF THE WORK. ANCHORS CEMENTED INTO THE BOTTOM MAY BE CUT OFF FLUSH WITH THE BOTTOM SURFACE.

5. WITHIN WORK AREAS A AND B THE PIPELINE MAY BE EITHER SUBMERGED OR FLOATING. IF SUBMERGED IT MUST BE SECURELY ANCHORED.