



PUBLIC NOTICE

US Army Corps of Engineers, Honolulu District

Regulatory Office (CEPOH-RO)
Guam Field Office
Naval Base Guam
PSC 455, Box 188
FPO AP 96540

Public Notice Date: 09/20/2021
Expiration Date: **10/20/2021**
Permit File Number: POH-2014-00209

FEDERAL PUBLIC NOTICE

Interested parties are hereby notified that an application has been received for a Department of the Army permit for certain work in waters of the United States as described below and shown on the attached drawings.

APPLICANT: Mr. Edward Moon, Naval Base Guam, PSC 455, Box 195, FPO AP 96540

WATERWAY AND LOCATION OF THE PROPOSED WORK:

X-Ray Wharf improvement would be located below the high tide line of the Pacific Ocean within Apra Harbor at X-Ray Wharf, Naval Base Guam, Santa Rita, Guam (13.42183°, 144.67046°).

Guam Ocean Dredged Material Disposal Site, also referred as Guam Deep Ocean Disposal Site (GDODS): 3 nautical mile (nm) boundary diameter located 11 nm west of Apra Harbor, Guam (13.591667°, 144.478883°).

PROPOSED PROJECT PURPOSE:

The applicant's stated purpose is to allow T-AKE vessels safe navigation to X-Ray Wharf, Naval Base Guam's designated supply wharf and to provide adequate berthing facilities that meet current design criteria. The mission of Commander Naval Region Marianas (COMNAVREGMAR) is to provide operational, fuel supply, ordnance, and other logistic support to units of the Pacific Fleet, operational forces of the Seventh Fleet, and units of the Fifth Fleet transiting the area to the Persian Gulf or other points west of Guam. The current wharf and utility infrastructure at Apra Harbor wharves cannot meet the Pacific Fleet requirements.

PROPOSED PROJECT DESCRIPTION:

U.S. Naval Base Guam (Navy) proposes to rehabilitate and upgrade the South Berth (Berth 2) of the existing X-Ray Wharf, the Navy's existing main supply wharf, to provide berthing and utilities to accommodate T-AKE class ships (MILCON Project 519). The proposed project includes the construction of a new wharf 35-foot seaward of the

existing Berth 2 and construction dredging (harbor deepening to -35 feet) to accommodate the draft requirements of the T-AKE class ships. The new wharf would strengthen the existing wharf by providing a new sheet pile bulkhead wall, tie-back system and engineered and fill strengthened soils between the new and existing bulkheads. The proposed action includes the following construction components subject to DA regulatory authority: New Fill Supported Wharf, Mooring Dolphin, Dredging, and the transport of dredged material for ocean disposal.

New Fill Supported Wharf:

The Navy proposes to construct a new 35-foot wide by 742-foot long (0.6-acre) closed cell sheet pile wharf with mooring and fendering systems seaward of the existing South Berth (Berth 2) of X-Ray Wharf. This 25,970 square foot (0.6-acre) section of waters of the U.S. between the new sheet piling and the existing wharf face would be backfilled and capped with a concrete deck platform. The fill area between the new and existing wharf face would be engineered and strengthened by mixing cement into the soil down to approximately 45 feet below mean lower low water (MLLW), to provide gravity based retaining foundation to support the vertical and lateral loads on the existing and new wharf during normal operations and seismic events. Approximately 43,162 cubic yards of fill would be placed behind the new sheet pile wall and the existing wall. The outer sheet pile wharf face would consist of 24" wide sheet piles which would be driven with both vibratory and impact hammers over a 3-month period. A temporary pile tie-back/bracing system would be installed outboard of the new sheet pile wall during wharf construction. New tie-backs would permanently anchor the new bulkhead wall to the existing bulkhead and the temporary tie-backs would be removed following construction.

Mooring Dolphin

The proposed project also includes the construction of one pile-supported mooring dolphin approximately 150 feet south of the new wharf. The dolphin system involves six 30-inch diameter steel pipe piles capped with a 20-foot long by 20-foot wide (400 square feet) concrete platform, a 5-foot wide by approximately 130-foot long metal trestle walkway between the new wharf face and the dolphin, and an intermediate walkway support consisting of two 30-inch diameter steel pipe piles capped with an 11-foot wide by 11-foot long (121 square foot) platform. The pipe piles would be driven with an impact hammer over 10 days.

Dredging and Disposal of Dredged Material

Dredging is proposed at Birth 2 to achieve a -35-foot MLLW navigational depth for the T-AKE vessel. A total of 78,500 cubic yards of sediment would be dredged over a footprint of 1.01 acres. The seafloor sediment, consisting primarily of fine grain silt and clay with sand and rubble, would be mechanically dredged with a barge mounted closed bucket clamshell or backhoe excavator. Dredging would occur over a 3-month period, 24 hours/day, 7 days/week. Dredged spoils would be placed in a SCOW or barge and towed to the USEPA designated Guam Deep Ocean Disposal Site (G-DODS) concurrent with dredging operations. On 25 April 2014 the U.S. Environmental Protection Agency (USEPA) determined that the proposed dredged material was suitable for ocean disposal at the G-DODS site. Disposal operations would be conducted in accordance with the *Guam Ocean Dredged Material Disposal Site, Site Management and Monitoring Plan*, dated March 2010.

All work would be performed in accordance with the enclosed plan (15 sheets), dated July 2021. More detailed plans can be provided upon request.

Additional information regarding the G-DODS, including the USEPA, Final Environmental Impact Statement for Designation of an Ocean Dredged Material Disposal Site Offshore of Guam, dated March 2010, is available at <http://www.epa.gov/region9/water/dredging/gdods>.

Applicant Proposed Mitigation:

The applicant proposes several Best Management Practices (BMP) to avoid and minimize impacts to the aquatic environment, including real time water quality monitoring and shut down procedures, sediment control structures to prevent construction related sediment and debris from entering the water, and silt curtains to fully contain dredge and construction footprints. Additionally, the applicant has transplanted 96 coral colonies growing on the existing wharf face to a nearby suitable receiver site in Abo Cove.

AUTHORITY: A Department of the Army permit is required pursuant to:

- Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403) - To perform work in or affecting navigable waters of the United States.
- Section 404 of the Clean Water Act (33 U.S.C. 1344) - Discharge dredged or fill material into waters of the United States. The Corps' public interest review will consider the guidelines set forth under Section 404(b) of the Clean Water Act (40 CFR 230).
- Section 103 of the Marine Protection, Research and Sanctuaries Act of 1972 (33 U.S.C. 1413) - Transport dredged material for the purpose of dumping it into ocean waters. The Corps' public interest review will consider the criteria established under authority of Section 102(a) of the Marine Protection, Research and Sanctuaries Act of 1972, as amended (40 CFR Parts 220 to 229), as appropriate.

WATER QUALITY CERTIFICATION: The proposed action will result in a discharge of dredged or fill material into a water of the U.S. and will require authorization from the Corps in accordance to Section 404 of the Clean Water Act of 1972 (CWA). Under Section 401 of the CWA (Public Law 95-217), the Corps may not issue a permit for the described work until the applicant obtains a certification or waiver of certification from the Guam Environmental Protection Agency.

COASTAL ZONE MANAGEMENT ACT CERTIFICATION: On 25 February 2014, the Guam Bureau of Statistics and Plans, Guam Coastal Management Program, concurred with the Navy's determination under 15 CFR 930.35 that the proposed project would not have foreseeable coastal effects to Guam's defined coastal zone, in accordance with Section 307(c)(3) of the Coastal Zone Management Act of 1972 (Public Law 92-583), as amended (16 U.S.C. 1456(c)(3)).

HISTORIC PROPERTIES: The State Historic Preservation Officer (SHPO) concurred with the Navy's determination of "No Historic Properties Affected" on 7 December 2011. The July 2008 Programmatic Agreement among the Commander, Navy Region

Marianas, Advisory Council on Historic Preservation, and the Guam Historic Preservation Office regarding Navy Undertakings on the Island of Guam describes processes to be followed in the event of inadvertent discoveries of historic properties during ground disturbing activities.

ENDANGERED SPECIES: The Navy conducted formal consultation under Section 7 of the Endangered Species Act with the National Marine Fisheries Service (NMFS) for green and hawksbill sea turtles. The Navy determined that the proposed project is likely to adversely affect green and hawksbill sea turtles. A low but unknown number of green and hawksbill sea turtles may be affected by exposure to pile driving noise through behavioral modifications; however, the noise exposure is not expected to injure, kill or impact their ability to forage, shelter, reproduce, or avoid predators or other threats. The NMFS issued a Biological Opinion on 9 January 2014 (NMFS File No. PIR-2013-9309) which concluded that the proposed project is not likely to jeopardize the continued existence of green and hawksbill turtles and that the proposed action would have no effect on designated or proposed critical habitat under NMFS jurisdiction. An Incidental Take Statement was not issued for the proposed action because no take of sea turtles is expected.

This application is being coordinated with the U.S. Fish and Wildlife Service (USFWS) and the NMFS. Any comments they may have concerning endangered or threatened wildlife or plants or their critical habitat will be considered in our final assessment of the described work.

ESSENTIAL FISH HABITAT: The Magnuson-Stevens Fishery Conservation and Management Act, as amended by the Sustainable Fisheries Act of 1996, requires all Federal agencies to consult with the NMFS on all actions, or proposed actions, permitted, funded, or undertaken by the agency, that may adversely affect Essential Fish Habitat (EFH). The Navy determined that the proposed project would adversely affect EFH. The proposed construction activities would permanently reduce the quantity of EFH in Inner Apra Harbor, temporarily degrade EFH water quality, disturb and/or displace motile species, and disrupt and/or destroy benthos. The Navy completed EFH consultation on 27 February 2014 by providing its final response to the NMFS 28 January 2014 EFH Conservation Recommendations. Any comments or recommendations the NMFS may have concerning EFH will be considered in our final assessment of the proposed work.

FEDERAL EVALUATION OF APPLICATION: The decision whether to issue a permit will be based on an evaluation of the probable impact including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which reasonably may be expected to accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs,

considerations of property ownership and, in general, the needs and welfare of the people. For activities involving 404 discharges, a permit will be denied if the discharge that would be authorized by such permit would not comply with the Environmental Protection Agency's 404(b)(1) guidelines. Subject to the preceding sentence and any other applicable guidelines or criteria (see Sections 320.2 and 320.3), a permit will be granted unless the District Commander determines that it would be contrary to the public interest.

The Corps of Engineers is soliciting comments from the public; Federal, state, and local agencies and officials; Indian Tribes; and other interested parties in order to evaluate the direct, indirect, and cumulative impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above.

PUBLIC HEARING: Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity. Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for public hearings shall state clearly and concisely, the reasons and rationale for holding a public hearing. The District Commander will then decide if a hearing should be held.

COMMENT AND REVIEW PERIOD: Conventional mail or e-mail comments on this public notice received during the comment period will be made part of the record and will be considered in determining whether it would be in the public interest to authorize this proposal. In order to be accepted, e-mail comments must originate from the author's e-mail account and must include on the subject line of the e-mail message the permit applicant's name (Naval Base Guam) and Corps file number POH-2017-00070.

All e-mail comments should be sent to:

Albert.p.williams@usace.army.mil

Conventional mail comments should be sent to:

U.S. Army Corps of Engineers, Honolulu District
Regulatory Guam Field Office, Attn: Albert Williams
PSC 455, Box 188
FPO AP 96540.

Both conventional e-mail and mail comments must reach this office no later than the expiration date of this public notice to become part of the record and be considered in the decision. Please contact Mr. Albert Williams at (808) 835-4056 if further information is desired concerning this notice.

PRIVACY & CONFIDENTIALITY: It should be noted that materials submitted as part of the permit application become part of the public record and are thus available to the general public under the procedures of the Freedom of Information Act (FOIA). Submissions should not include any information that the submitter seeks to preserve as confidential.

This Public Notice is issued by the Chief, Regulatory Office

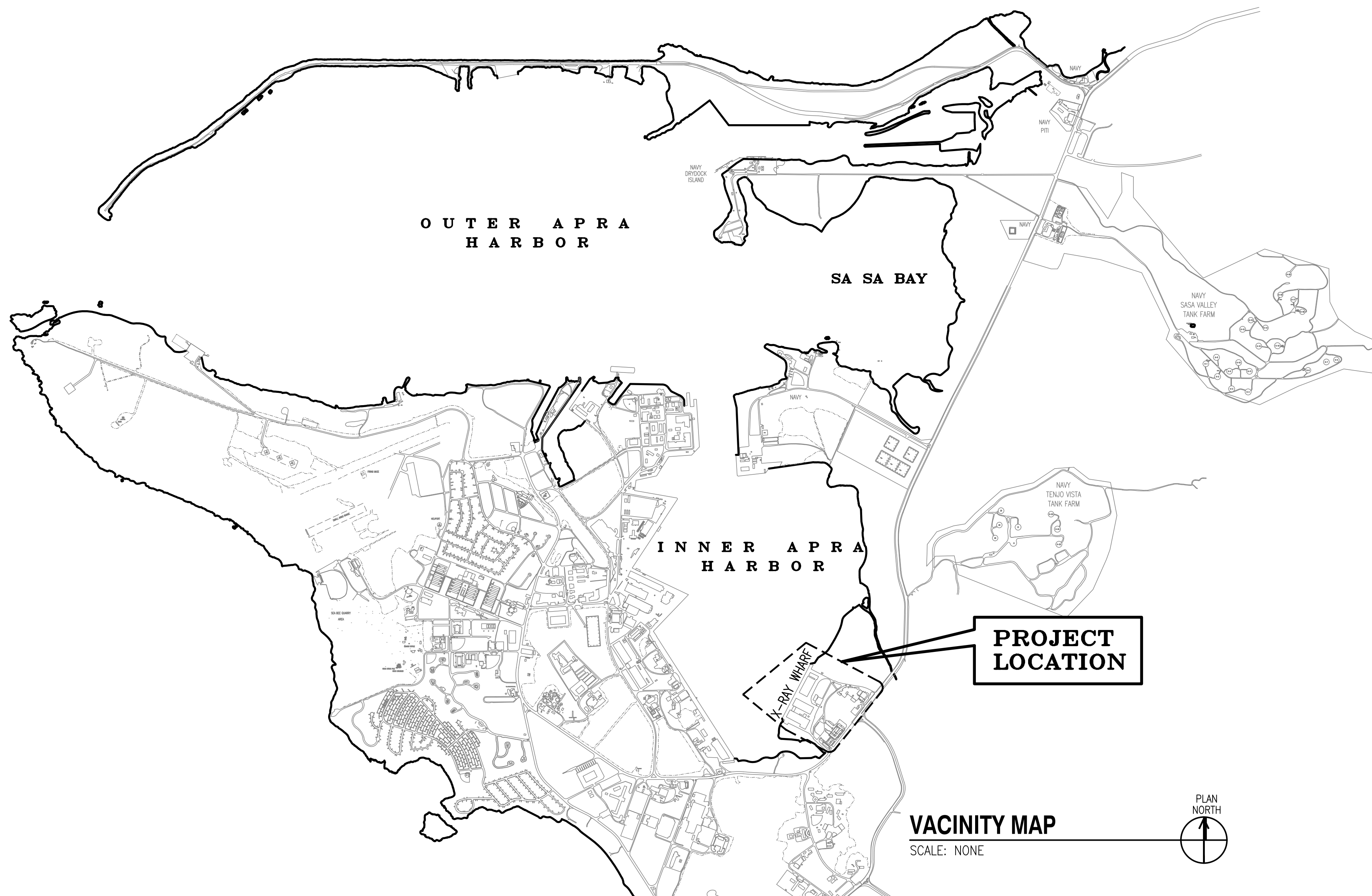
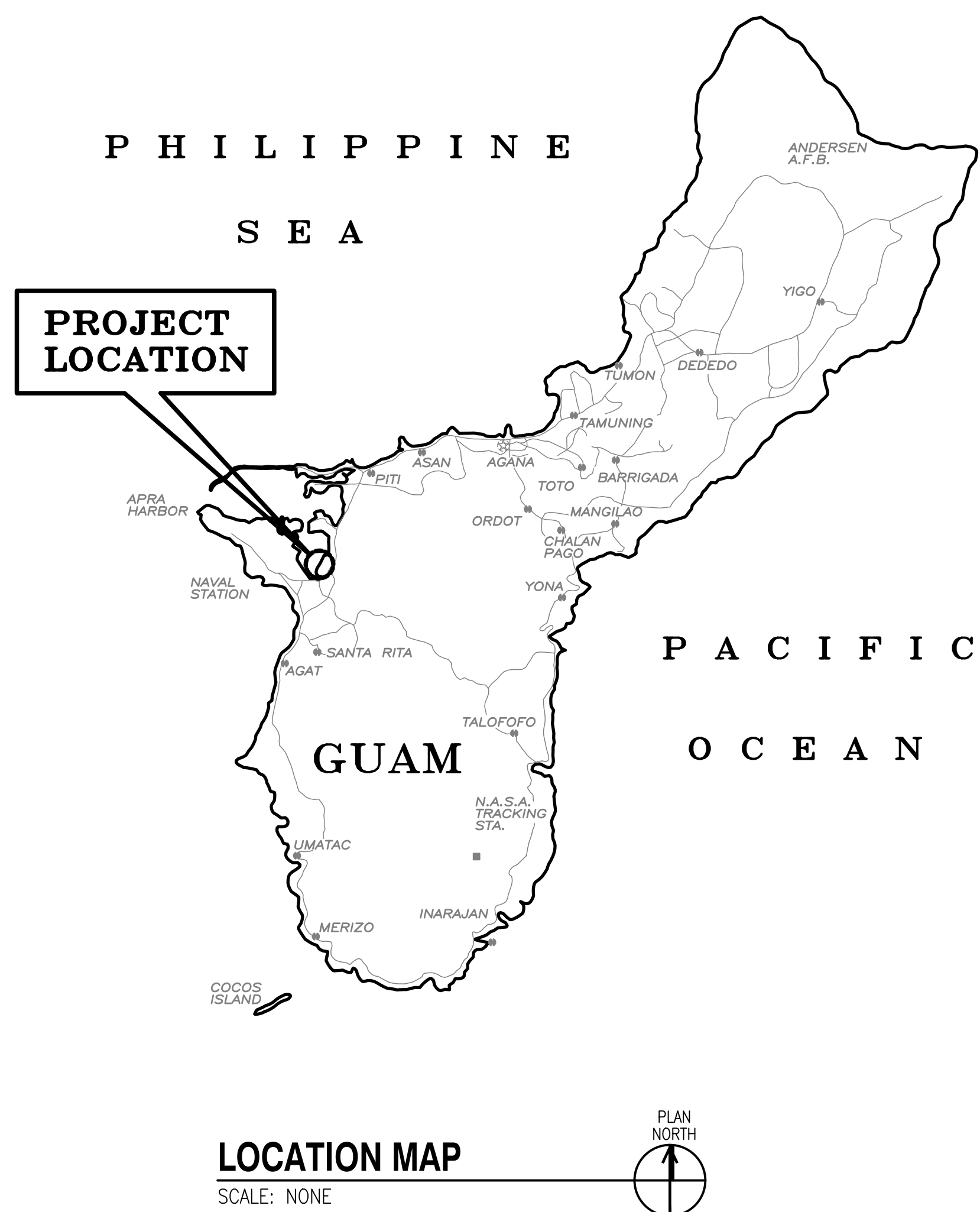
FY22 MCON PROJECT P-519

X-RAY WHARF IMPROVEMENTS (BERTH 2)

(PART A)

NAVAL BASE, GUAM

WON 1297284



PROJECT DESIGN TEAM

WATERFRONT STRUCTURAL/UTILITIES

moffatt & nichol
737 BISHOP STREET, SUITE 2450
HONOLULU, HAWAII 96813
(808) 533-7000

ARCHITECTURAL DESIGNER

SETIADI ARCHITECTS LLC
357 ROUTE 8
MAITE, GUAM 96910
671-477-3556

BUILDING STRUCTURAL/CIVIL DESIGNER & SURVEYOR

DUEÑAS-CAMACHO & ASSOCIATES, INC.
238 E. MARINE CORPS DR, SUITE 201
DIAMOND PLAZA BLDG.
HAGATNA, GUAM 96931
671-477-7991

GEOTECHNICAL DESIGNERS

Earth Mechanics, Inc.
Geotechnical and Earthquake Engineering
EARTH MECHANICS, INC.
17800 NEWHOPE STREET, SUITE B
FOUNTAIN VALLEY, CA 92708
714-751-3826

ELECTRICAL/TELECOMMUNICATIONS DESIGNER

MK ENGINEERS LTD.
100 KAHĒLU AVE, SUITE 220
MILILANI, HI 96789
(808) 848-8622

MECHANICAL/PLUMBING/FIRE PROTECTION DESIGNER

INSYNERGY ENGINEERING
MECHANICAL • ELECTRICAL • FIRE PROTECTION
828 FORT STREET MALL, STE. 500
HONOLULU, HI 96813
808-521-3773

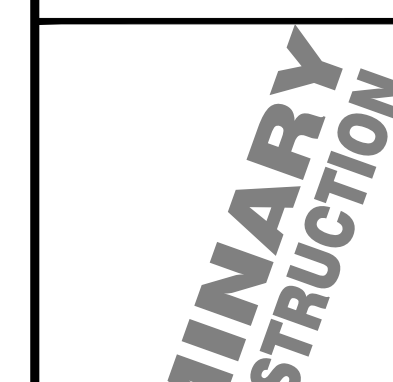
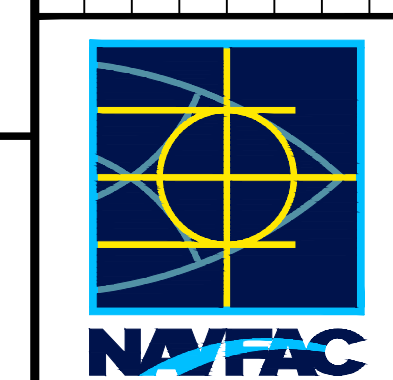
CORROSION ENGINEERING

TOURNEY CONSULTING GROUP, LLC
3401 MIDLINK DRIVE
KALAMAZOO, MI 49048
269-384-9980

ENVIRONMENTAL DESIGNER

MYOUNGHEE NOH & ASSOCIATES, LLC
99-1046 IMAENA ST, SUITE 210A
AIEA, HI 96701
808-484-9214

NO.	DESCRIPTION	DATE



PRELIMINARY CONSTRUCTION
BISHOP STREET, SUITE 2450
HONOLULU, HAWAII 96813
(808) 533-7000

APPROVED

FOR COMMANDER NAVFAC DATE

ACTIVITY

SATISFACTORY TO DATE

DES BE DRW DW REV FM

DM

BRANCH MANAGER

CHIEF ENG

FIRE PROTECTION

DEPARTMENT OF THE NAVY

NAVFAC PACIFIC

NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND

MAJLUDA, HAWAII

NAVAL BASE GUAM

FY22 MCON PROJECT P-519
X-RAY WHARF IMPROVEMENTS (BERTH 2)

TITLE SHEET (PART A)

G-001

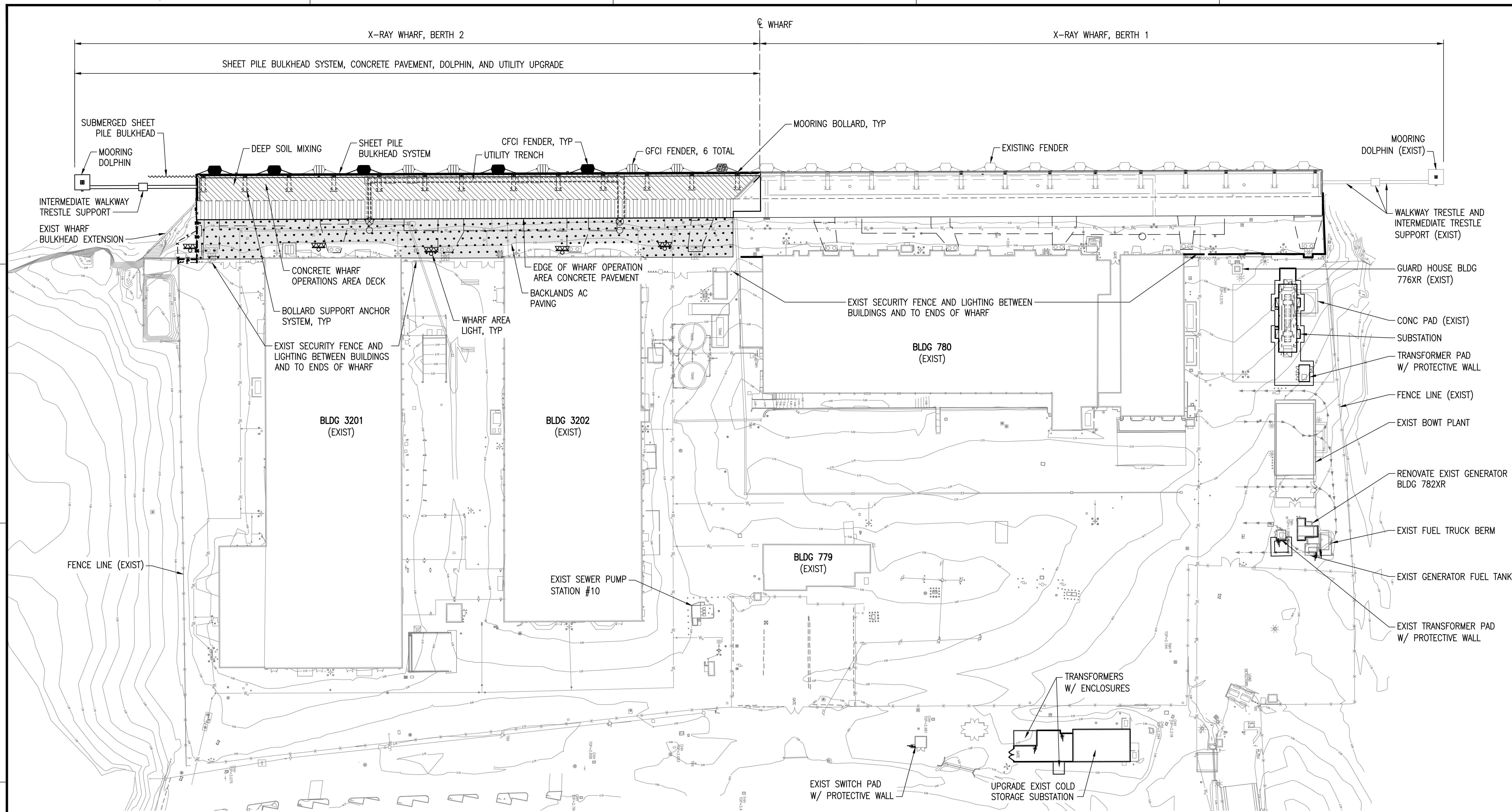
100% SUBMITTAL - 7 JULY 2021

IF SHEET IS LESS THAN 22" X 34" REDUCED PRINT. USE GRAPHIC SCALES

4 THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE WORK AMONG THE VARIOUS TRADES AS NECESSARY TO AVOID CONFLICTS AND TO INSURE THE INSTALLATION OF ALL WORK WITHIN THE AVAILABLE SPACE.

FILE NAME: \\vmea.net\projects\h\10171-2\CAD\Active\Construction\01_GENERAL\Part A\FEEDS\FY22MCON_P-519_X-Ray_Wharf_Improvements_Part_A.dwg LAYOUT NAME: TITLE SHEET PLOTTED: Thursday, July 01, 2021 11:47am USER: mrcin

FILE NAME: \\mmnec\projects\10171-22\GDD\Active_Construction\01_GENERAL\Part_A\PER519-1297284-0-006.dwg LAYOUT NAME: SCOPE OF WORK SUMMARY (PART A) PLOTTED: Thursday, July 01, 2021 - 11:50am USER: marlin



SCOPE OF WORK - SITE PLAN
SCALE: 1:800



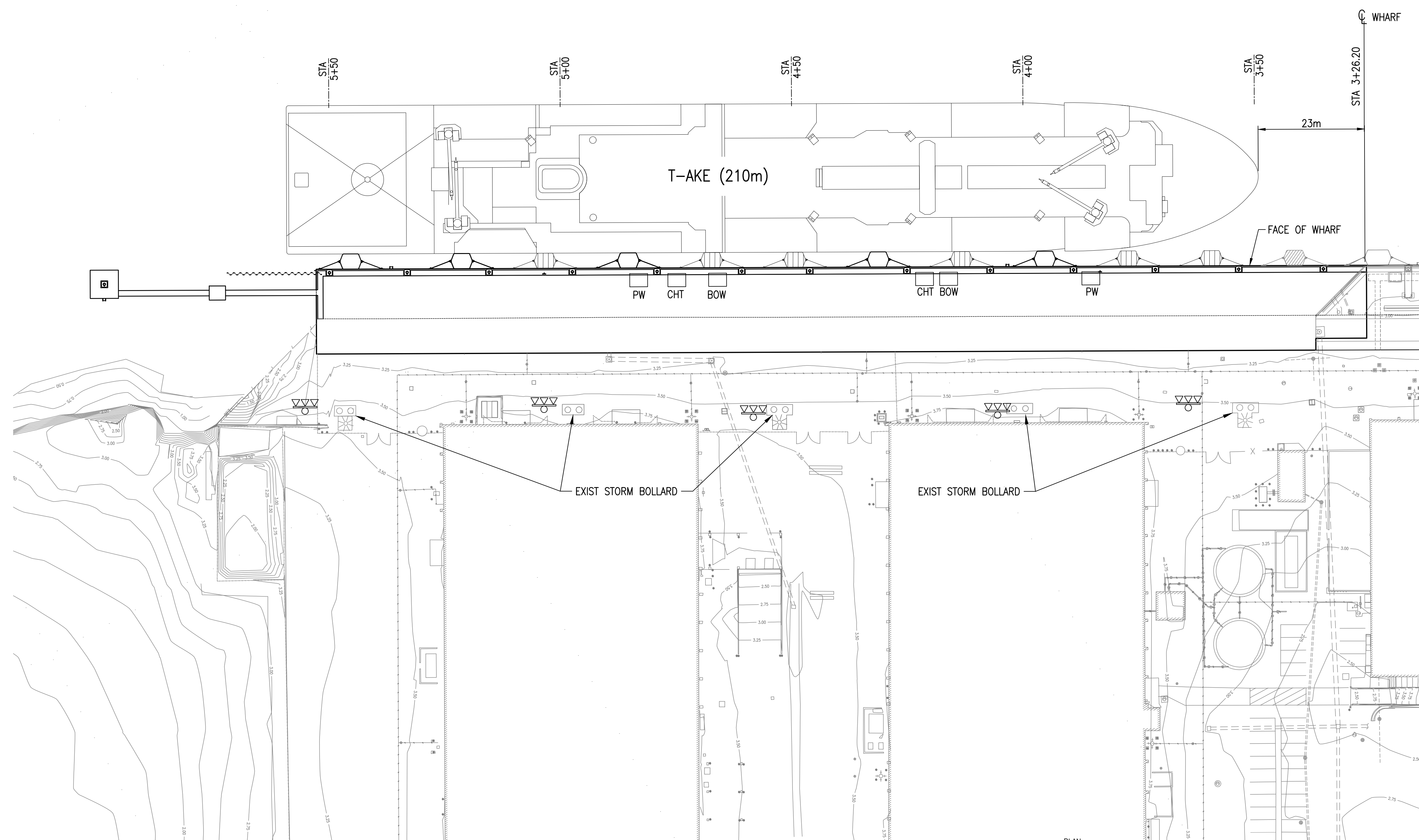
- LEGEND:**
- INDICATES MOORING BOLLARD
 - INDICATES CFCI FENDER
 - INDICATES GFCI FENDER
 - INDICATES EXISTING FENDER TO BE SALVAGED FROM CORNER OF BERTH 1 AND REUSED AT BERTH 2
 - INDICATES EXISTING FENDER
 - INDICATES WHARF WIDENING W/ CONC WHARF OPERATION DECK AND DEEP SOIL MIXING
 - INDICATES BACKLANDS AC PAVING
 - INDICATES CONC WHARF OPERATION DECK OVER EXISTING WHARF
 - INDICATES SUBSTATION

- NOTES:**
1. THE CONTRACTOR MUST BE RESPONSIBLE FOR COORDINATING THE WORK AMONG THE VARIOUS TRADES AS NECESSARY TO AVOID CONFLICTS AND TO INSURE THE INSTALLATION OF ALL WORK WITHIN THE AVAILABLE SPACE.
 2. FOR IDENTIFICATION OF PART A AND PART B WORK, SEE G-007 AND RFP PART 3.
 3. SEE PART B DRAWINGS FOR SITE UTILITIES.



	DATE
	DESCRIPTION
	SYM
PRELIMINARY FOR CONSTRUCTION 3 BISHOP STREET, SUITE 2450 HONOLULU, HAWAII 96813 (808) 533-7000	
APPROVED	
FOR COMMANDER NAVFAC DATE	
ACTIVITY	
SATISFACTORY TO DATE	
DES	BE
DRW	DW
REV	FM
DM	
BRANCH MANAGER	
CHIEF ENG	
FIRE PROTECTION	
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND NAVFAC PACIFIC HONOLULU, HAWAII CUMM	
FY22 MCON PROJECT P-519 X-RAY WHARF IMPROVEMENTS (BERTH 2) SCOPE OF WORK SUMMARY (PART A)	
SCALE: AS NOTED	
PROJECT NO.: 1297284	
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO.	
SHEET 6 OF	
G-006	

FILE NAME: \\mmene\projects\10171-22\CODD_Active_Construction\04_STRUCTURAL\PIERP519-1297284-S-101.dwg LAYOUT NAME: Layout1 PLOTTED: Thursday, July 01, 2021 - 12:25pm USER: imartin



MOORING ARRANGEMENT PLAN

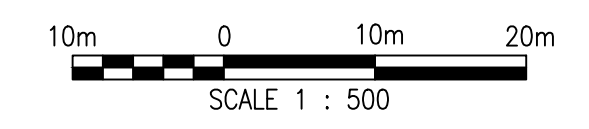
SCALE: 1:500

LEGEND:

- INDICATES MOORING BOLLARD
- INDICATES 3300 DIA PNEUMATIC CFCI FENDERS (5 TOTAL)
- INDICATES 3300 DIA PNEUMATIC GFCI FENDERS (6 TOTAL)
- INDICATES EXIST OR REPURPOSED PNEUMATIC FENDER TO BE SALVAGED FROM CORNER OF BERTH 1 AND REUSED AT BERTH 2.
- CHT SHIPS WASTE WATER RISER
- BOW BILGE OILY WASTE RISER
- PW POTABLE WATER RISER

NOTES:

1. FOR WINDS LESS THAN 19 m/s USE MOORING HARDWARE ON THE MOORING DOLPHIN AND WHARF FACE.
2. FOR WINDS FROM 19 TO 33 m/s USE STORM BOLLARDS AS WELL AS BOLLARDS ON THE MOORING DOLPHIN AND WHARF FACE.
3. FOR FENDER STATIONS SEE DECK PLANS ON S-102 THROUGH S-104
4. BOW, CHT, PW PIPING AND RISER STATIONS ARE PART B (DESIGN BUILD) WORK
5. COMM RISER AND INFRASTRUCTURE ARE PART B (DESIGN BUILD) WORK
6. POWER MOUNDS AND ELECTRICAL INFRASTRUCTURE ARE PART B (DESIGN BUILD) WORK
7. STATIONING SHOWN IS IN METERS.



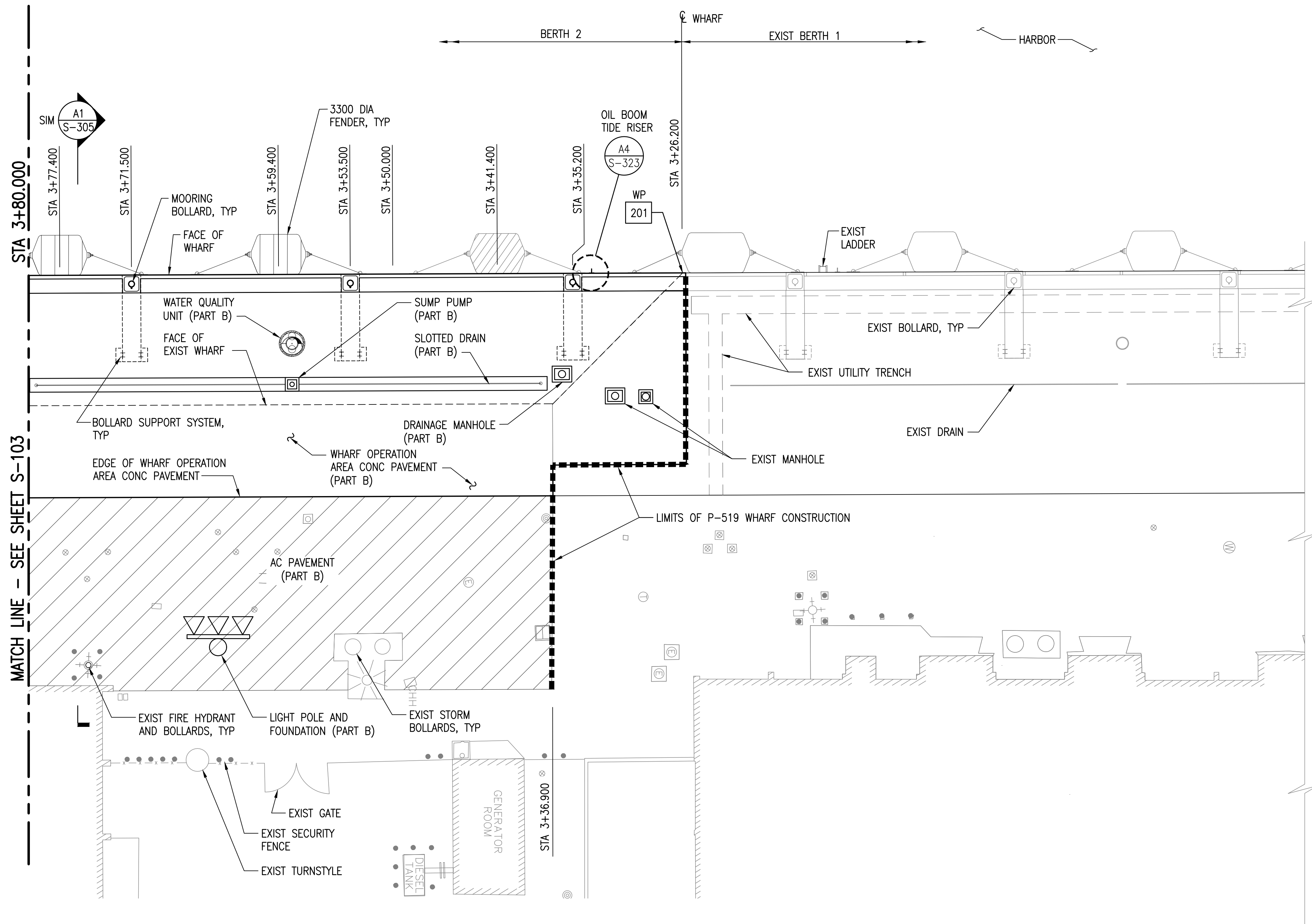
	DATE
	DESCRIPTION
	SYM
PRELIMINARY CONSTRUCTION 	
3 BISHOP STREET, SUITE 2450 HONOLULU, HAWAII 96813 (808) 533-7000	
APPROVED	
FOR COMMANDER NAVFAC DATE	
ACTIVITY	
SATISFACTORY TO DATE	
DES	AV
DRW	DW
REV	FM
DM	
BRANCH MANAGER	
CHIEF ENG	
FIRE PROTECTION	
DEPARTMENT OF THE NAVY NAVFAC PACIFIC NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND HAWAIIAN ISLANDS HONOLULU, HAWAII CUMM	NAVAL BASE CUMM FY22 MCON PROJECT P-519 X-RAY WHARF IMPROVEMENTS (BERTH 2) MOORING ARRANGEMENT PLAN (PART A)
SCALE: AS NOTED	
EPROJCT NO.: 1297284	
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO.	
SHEET 42 OF	
S-101	

100% SUBMITTAL - 7 JULY 2021

IF SHEET IS LESS THAN 22" X 34" REDUCED PRINT. USE GRAPHIC SCALES

4 THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE WORK AMONG THE VARIOUS TRADES AS NECESSARY TO AVOID CONFLICTS AND TO INSURE THE INSTALLATION OF ALL WORK WITHIN THE AVAILABLE SPACE.

FILE NAME: \\mmenead\projects\10171-22\000\Active\Construction\04 STRUCTURAL\PIERS\9-1297284-S-102.dwg LAYOUT NAME: Layout1 PLOTTED: Thursday, July 01, 2021 - 1:00 pm USER: marlin

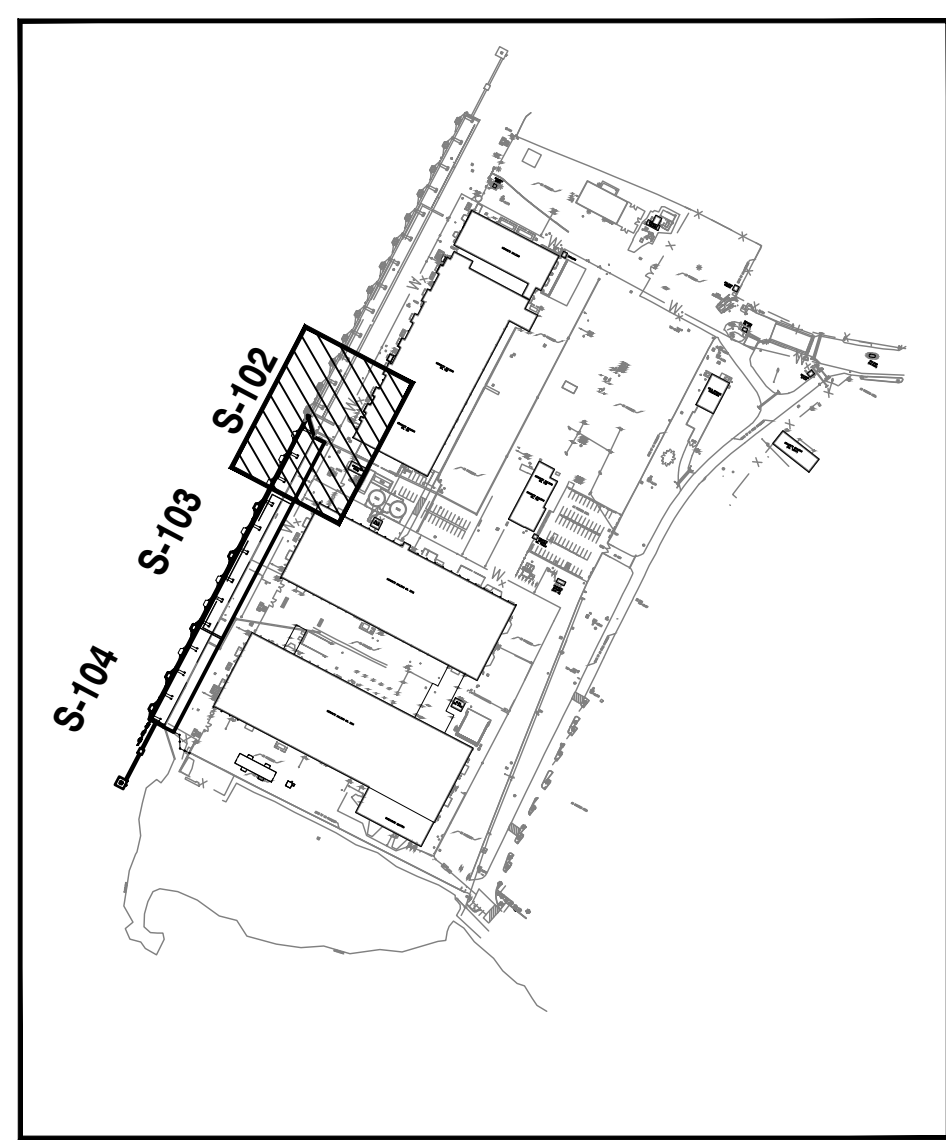


- LEGEND:**
- MOORING BOLLARD
 - SHIPS WASTE WATER RISER (PART B)
 - POTABLE WATER RISER (PART B)
 - BILGE OILY WASTE RISER (PART B)
 - 3300 DIA PNEUMATIC CFCI FENDER
 - 3300 DIA PNEUMATIC GFCI
 - EXIST PNEUMATIC FENDER
 - WP 201 WORK POINT, SEE CIVIL (PART B)
 - AC PAVEMENT AREA (PART B)

NOTES:
1. STATIONING IS SHOWN IN METERS.

MATCH LINE - SEE SHEET S-103

PARTIAL DECK PLAN - 1
SCALE: 1:200



KEY PLAN
NO SCALE



SYMBOL	DESCRIPTION	DATE



PRELIMINARY
CONSTRUCTION

PI JV

3 BISHOP STREET, SUITE 2450
HONOLULU, HAWAII 96813
(808) 533-7000

APPROVED	
FOR COMMANDER NAVFAC DATE	
ACTIVITY	
SATISFACTORY TO DATE	
DES AV	DRW DW
REV FM	
DM	
BRANCH MANAGER	
CHIEF ENG	
FIRE PROTECTION	

DEPARTMENT OF THE NAVY

NAVFAC PACIFIC

NAVFAC PACIFIC

NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND

MAKALAPA, HAWAII

CUMM

NAVAL BASE CUMM

FY22 MCON PROJECT P-519

X-RAY WHARF IMPROVEMENTS (BERTH 2)

PARTIAL DECK PLAN - 1 (PART A)

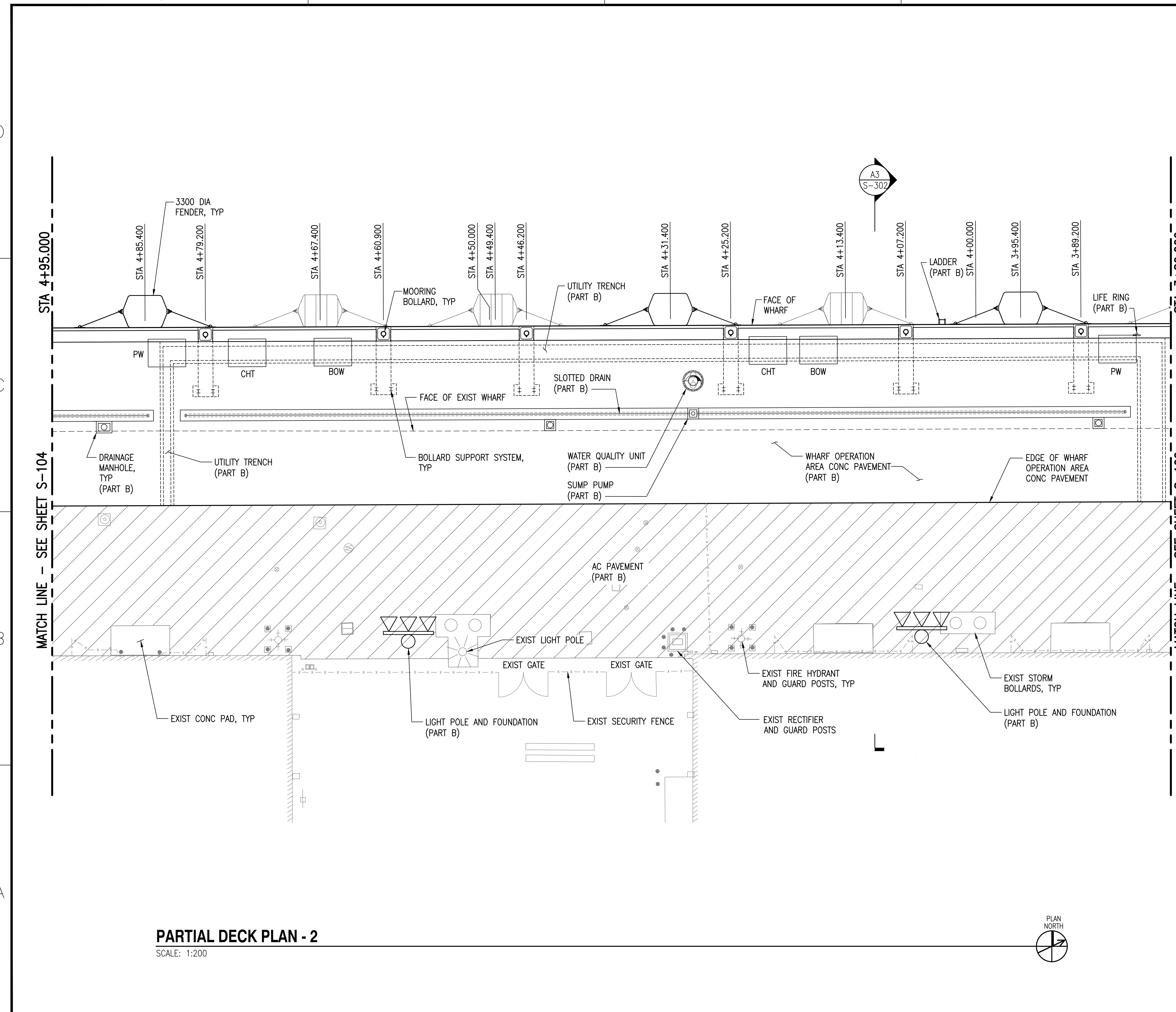
SCALE:	AS NOTED
PROJECT NO.:	1297284
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO.	
SHEET	43 OF
S-102	

100% SUBMITTAL - 7 JULY 2021

IF SHEET IS LESS THAN 22" X 34" REDUCED PRINT. USE GRAPHIC SCALES

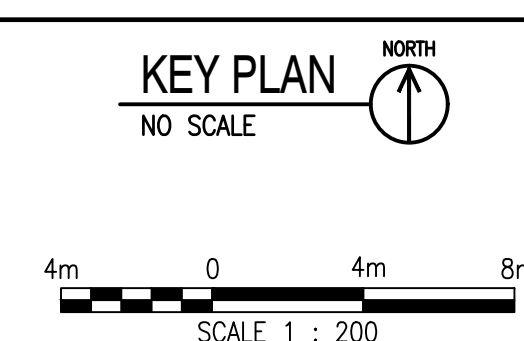
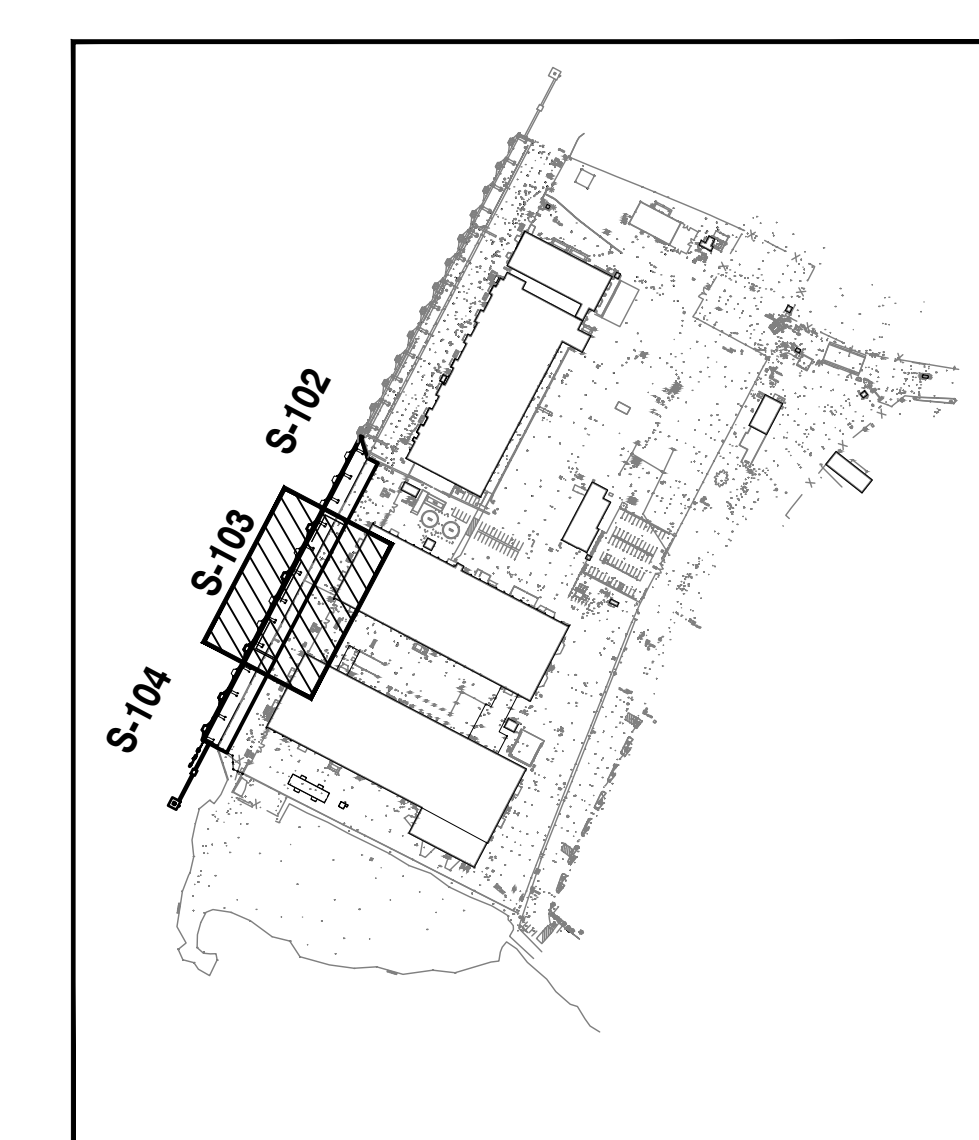
4 THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE WORK AMONG THE VARIOUS TRADES AS NECESSARY TO AVOID CONFLICTS AND TO INSURE THE INSTALLATION OF ALL WORK WITHIN THE AVAILABLE SPACE.

FILE NAME: \\mea.net\projects\H\10171-22\CAD\Construction\04_STRUCTURE\NAVFAC\1297284-S-103.dwg LAYOUT NAME: Layout1 PLOTTED: Thursday, July 01, 2021 1:02pm USER: mcrin



- LEGEND:**
- MOORING BOLLARD
 - SHIPS WASTE WATER RISER (PART B)
 - POTABLE WATER RISER (PART B)
 - BILGE OILY WASTE RISER (PART B)
 - 3300 DIA PNEUMATIC GFCl BID FENDER
 - 3300 DIA PNEUMATIC GFCl FENDER
 - WP 201 WORK POINT, SEE CIVIL (PART B)
 - AC PAVEMENT AREA (PART B)

NOTES:
1. STATIONING IS SHOWN IN METERS.



PARTIAL DECK PLAN - 2
SCALE: 1:200

	DATE
	DESCRIPTION
	DATE
	DESCRIPTION
	DATE
	DESCRIPTION

PRELIMINARY
FOR CONSTRUCTION

BISHOP STREET, SUITE 2450
HONOLULU, HAWAII 96813
(808) 533-7000

APPROVED	DATE				
FOR COMMANDER NAVFAC	DATE				
ACTIVITY					
SATISFACTORY TO	DATE				
DES	AV	DRW	DW	REV	FM
DM					
BRANCH MANAGER					
CHIEF ENG					
FIRE PROTECTION					

DEPARTMENT OF THE NAVY NAVFAC PACIFIC NAVAL BASE GUAM	NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND WAGUADA, HAWAII GUAM
FY22 MCON PROJECT P-519 X-RAY WHARF IMPROVEMENTS (BERTH 2)	
PARTIAL DECK PLAN - 2 (PART A)	

SCALE:	AS NOTED
EPROJCT NO.:	1297284
CONSTR. CONTR. NO.:	-
NAVFAC DRAWING NO.:	-
SHEET	44 OF -

S-103

FILE NAME: \\mmennet\projects\10171-22\0001\Active\Construction\04_STRUCTURAL\PIERP519-1297284-S-104.dwg LAYOUT NAME: Layout1 PLOTTED: Thursday, July 01, 2021 - 1:04pm USER: martin

1

2

3

4

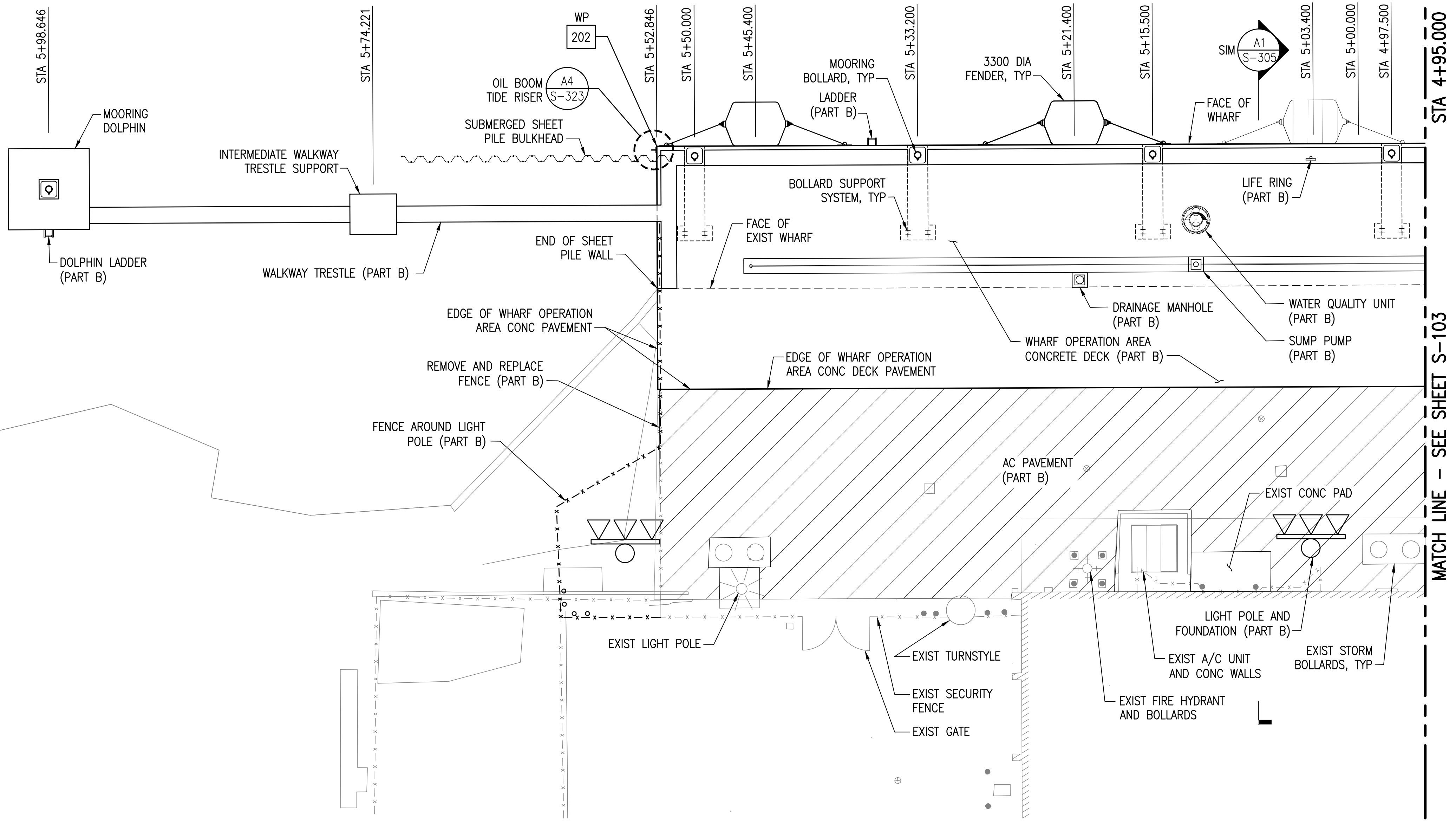
5

D

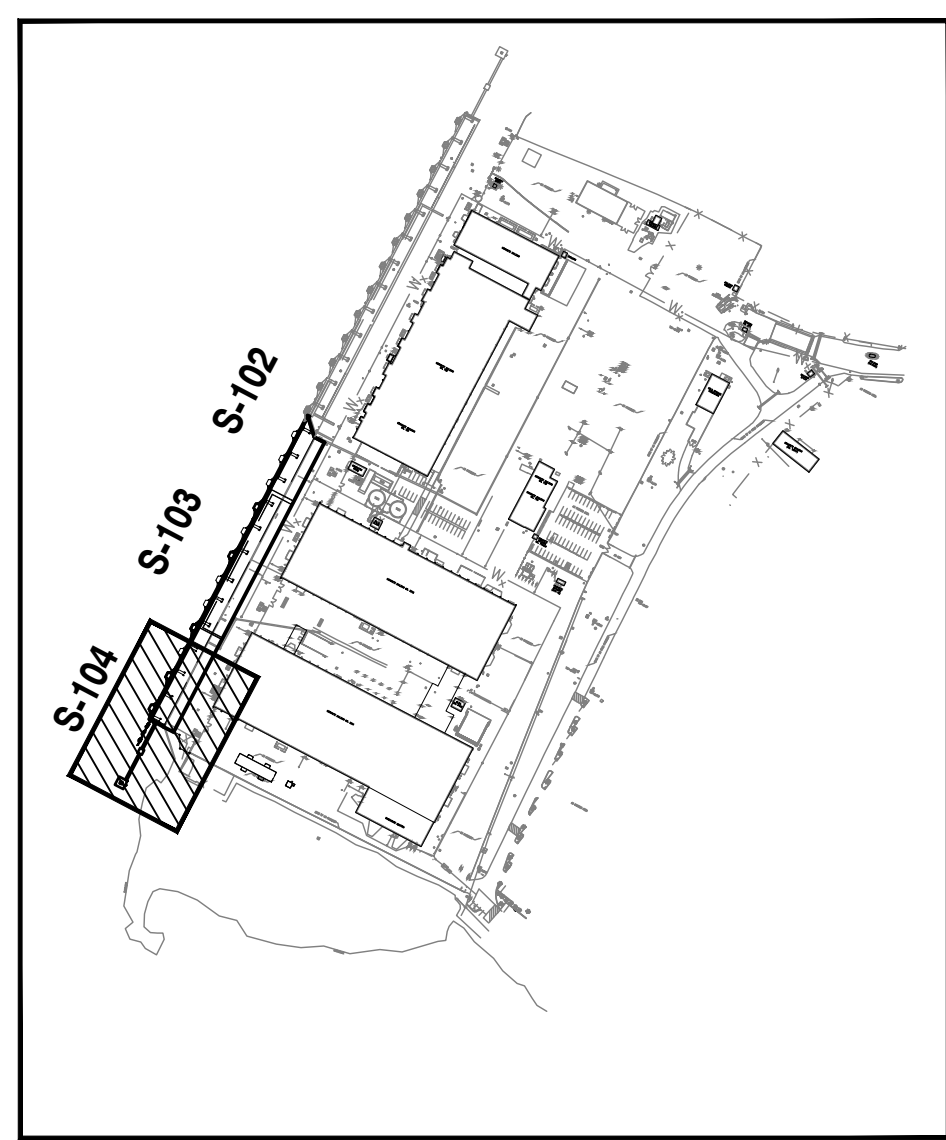
C

B

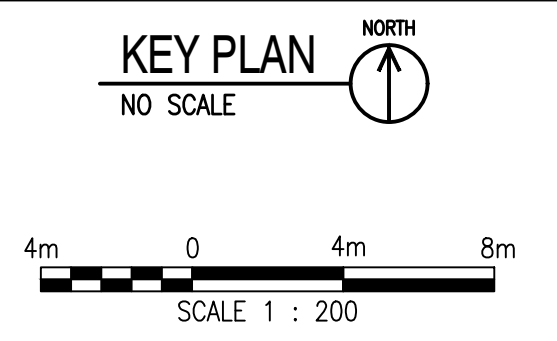
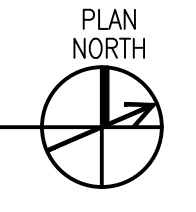
A



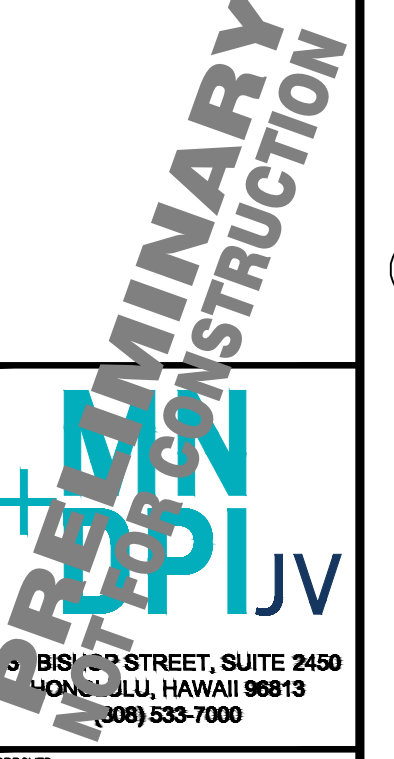
- LEGEND:**
- ⊙ MOORING BOLLARD
 - CHT SHIPS WASTE WATER RISER (PART B)
 - PW POTABLE WATER RISER (PART B)
 - BOW BILGE OILY WASTE RISER (PART B)
 - [Hexagon symbol] 3300 DIA PNEUMATIC CFCI BID FENDER
 - [Hexagon symbol] 3300 DIA PNEUMATIC GFCI FENDER
 - WP [201] WORK POINT, SEE CIVIL (PART B)
 - [Hatched area symbol] AC PAVEMENT AREA (PART B)
- NOTES:**
- STATIONING IS SHOWN IN METERS.



PARTIAL DECK PLAN - 3
SCALE: 1:200



NO.	DESCRIPTION	DATE



APPROVED	
FOR COMMANDER NAVFAC DATE	
ACTIVITY	
SATISFACTORY TO DATE	
DES AV	DRW DW
REV FM	
DM	
BRANCH MANAGER	
CHIEF ENG	
FIRE PROTECTION	

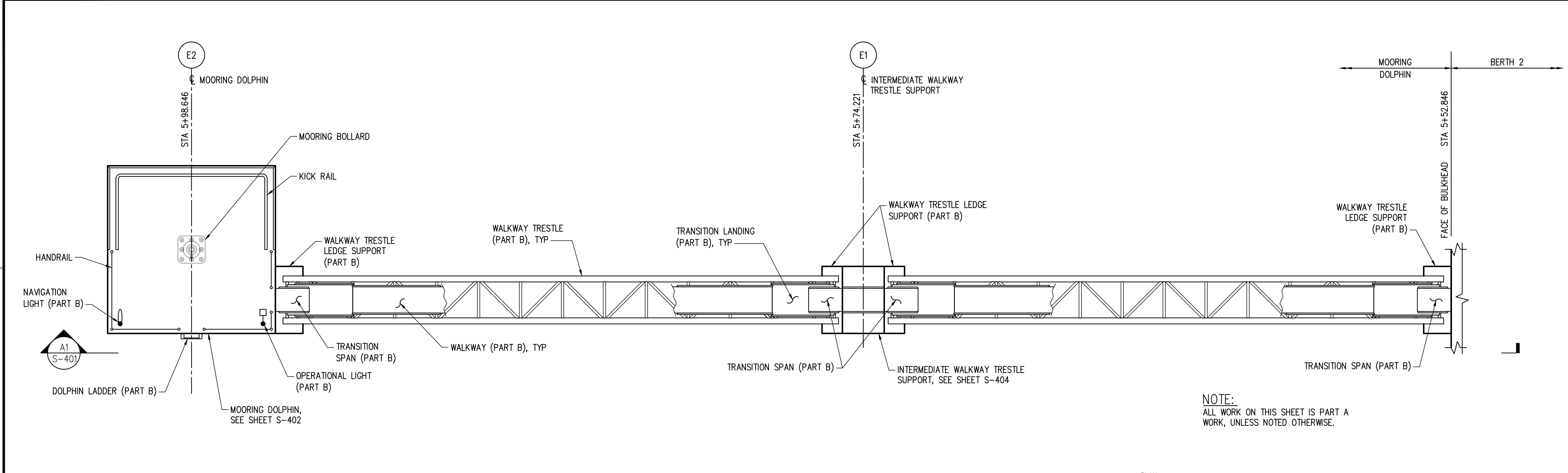
DEPARTMENT OF THE NAVY
NAVFAC PACIFIC
NAVFAC PACIFIC
MAKALAPA, HAWAII
CUMM
NAVY BASE CUMM
FY22 MCON PROJECT P-519
X-RAY WHARF IMPROVEMENTS (BERTH 2)
PARTIAL DECK PLAN - 3 (PART A)

SCALE:	AS NOTED
PROJECT NO.:	1297284
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO.	
SHEET	45 OF -
S-104	

IF SHEET IS LESS THAN 22" X 34" REDUCED PRINT. USE GRAPHIC SCALES

4 THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE WORK AMONG THE VARIOUS TRADES AS NECESSARY TO AVOID CONFLICTS AND TO INSURE THE INSTALLATION OF ALL WORK WITHIN THE AVAILABLE SPACE.

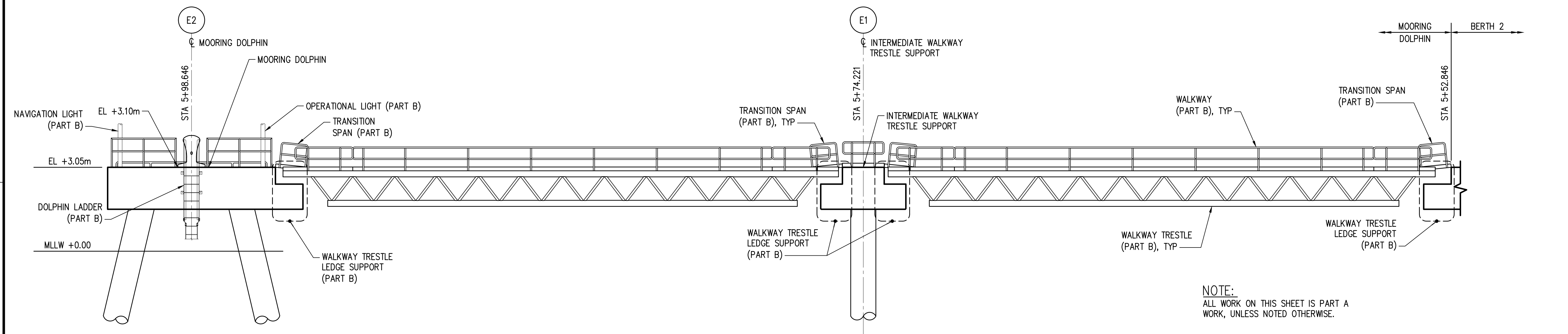
FILE NAME: \\nme.net\projects\1\10171-22\CADD\Active\Construction\04 STRUCTURE\PIERS\19-1297284-S-401.dwg LAYOUT NAME: MOORING DOLPHIN & TRESTLE SUPPORT - PLAN & ELEV (PART A) PLOTTED: Thursday, July 01, 2021 - 1:53pm USER: mofm



PLAN - MOORING DOLPHIN AND INT. WALKWAY TRESTLE SUPPORT

SCALE: 1:75

NOTE:
ALL WORK ON THIS SHEET IS PART A
WORK, UNLESS NOTED OTHERWISE.

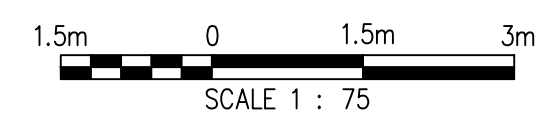



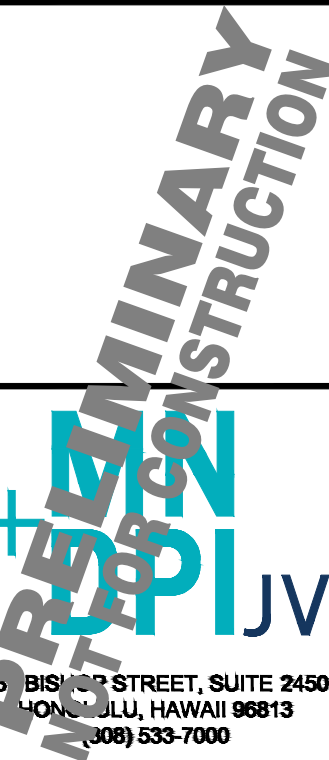
ELEVATION - MOORING DOLPHIN AND INT. WALKWAY TRESTLE SUPPORT

SCALE: 1:75

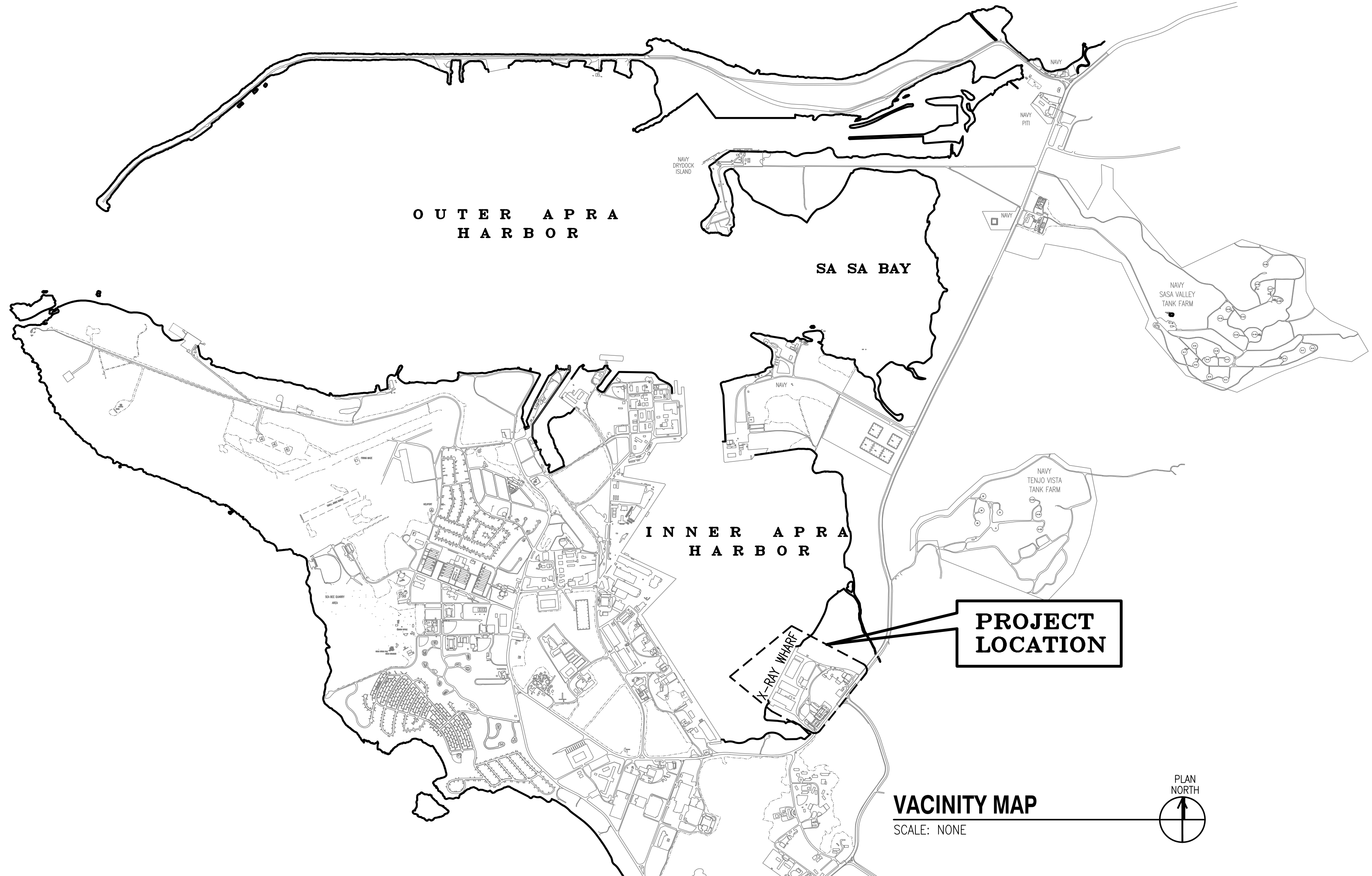
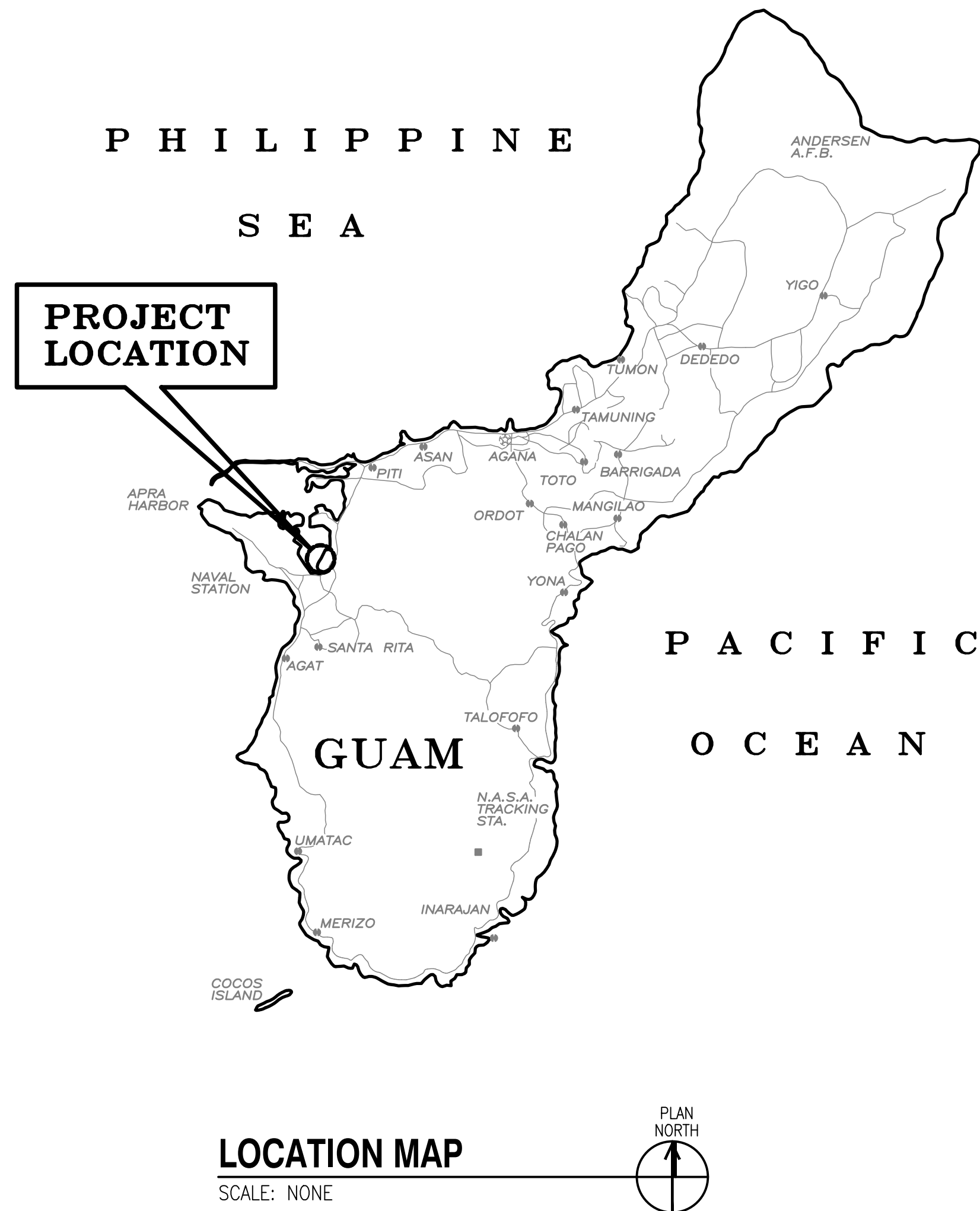
NOTE:
ALL WORK ON THIS SHEET IS PART A
WORK, UNLESS NOTED OTHERWISE.

A1
S-401



DATE	
DESCRIPTION	
SYN	
	
	
BISHOP STREET, SUITE 2450 HONOLULU, HAWAII 96813 (808) 533-7000	
APPROVED	
FOR COMMANDER NAVAC	DATE
ACTIVITY	
SATISFACTORY TO	DATE
DES AV	DRW DW
REV FM	
DM	
BRANCH MANAGER	
CHIEF ENG	
FIRE PROTECTION	
DEPARTMENT OF THE NAVY	NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVFAC PACIFIC	MAKALAPA, HAWAII
NAVFAC PACIFIC	CUMM
NAVAL BASE CUMM	
FY22 MCON PROJECT P-519 X-RAY WHARF IMPROVEMENTS (BERTH 2)	
MOORING DOLPHIN & TRESTLE SUPPORT - PLAN & ELEV (PART A)	
SCALE:	AS NOTED
PROJECT NO.:	1297284
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO.	
SHEET	51 OF
S-401	

FY22 MCON PROJECT P-519 X-RAY WHARF IMPROVEMENTS (BERTH 2) (PART A) NAVAL BASE, GUAM WON 1297284



PROJECT DESIGN TEAM

WATERFRONT STRUCTURAL/UTILITIES



737 BISHOP STREET, SUITE 2450
HONOLULU, HAWAII 96813
(808) 533-7000

ARCHITECTURAL DESIGNER



SETIADI ARCHITECTS, LLC
357 ROUTE 8
MAITE, GUAM 96910
671-477-3556

BUILDING STRUCTURAL/CIVIL DESIGNER
& SURVEYOR



DUENAS-CAMACHO & ASSOCIATES, INC.
238 E. MARINE CORPS DR, SUITE 201
DIAMOND PLAZA BLDG.
HAGATNA, GUAM 96931
671-477-7991

GEOTECHNICAL DESIGNERS



EARTH MECHANICS, INC.
17800 NEWHOPE STREET, SUITE B
FOUNTAIN VALLEY, CA 92708
714-751-3826

ELECTRICAL/TELECOMMUNICATIONS
DESIGNER



MK ENGINEERS LTD.
100 KAHELU AVE, SUITE 220
MILILANI, HI 96789
(808) 848-8622

MECHANICAL/PLUMBING/FIRE PROTECTION
DESIGNER



INSYNERGY ENGINEERING
828 FORT STREET MALL, STE. 500
HONOLULU, HI 96813
808-521-3773

CORROSION ENGINEERING



TOURNEY CONSULTING GROUP, LLC
3401 MIDLINK DRIVE
KALAMAZOO, MI 49048
269-384-9980

ENVIRONMENTAL DESIGNER



MYOUNGHEE NOH & ASSOCIATES, LLC
99-1046 IMAENA ST, SUITE 210A
AIEA, HI 96701
808-484-9214



PRELIMINARY
CONSTRUCTION

NAVJUV

BISHOP STREET, SUITE 2450
HONOLULU, HAWAII 96813
(808) 533-7000

APPROVED	DATE				
FOR COMMANDER NAVFAC	DATE				
ACTIVITY					
SATISFACTORY TO	DATE				
DES	BE	DRW	DW	REV	FM
DM					
BRANCH MANAGER					
CHIEF ENG					
FIRE PROTECTION					

DEPARTMENT OF THE NAVY
NAVFAC PACIFIC
NAVAL BASE GUAM
FY22 MCON PROJECT P-519
X-RAY WHARF IMPROVEMENTS (BERTH 2)
TITLE SHEET (PART A)

SCALE:	AS NOTED
PROJECT NO.:	1297284
CONSTR. CONTR. NO.:	-
NAVFAC DRAWING NO.:	-
SHEET	1 OF -

G-001

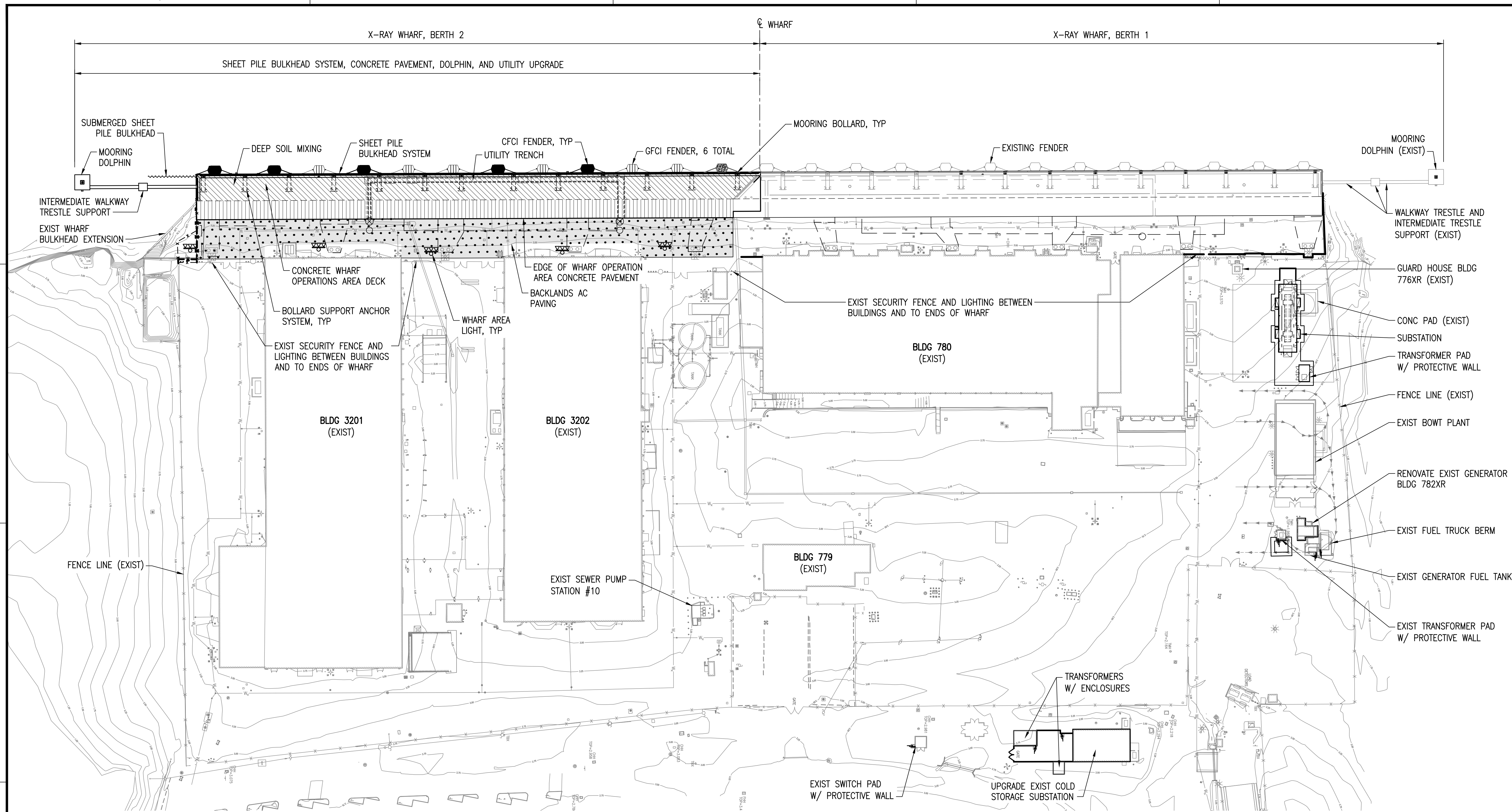
100% SUBMITTAL - 7 JULY 2021

IF SHEET IS LESS THAN 22" X 34"
REDUCED PRINT. USE GRAPHIC SCALES

4 THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE WORK
AMONG THE VARIOUS TRADES AS NECESSARY TO AVOID CONFLICTS AND TO
INSURE THE INSTALLATION OF ALL WORK WITHIN THE AVAILABLE SPACE.

FILE NAME: \\vme.net\projects\10171-22\CAD\Construction\01_GENERAL\Part A\FEEDS\FY22MCON\1297284-G-001.dwg LAYOUT NAME: TITLE SHEET PLOTTED: Thursday, July 01, 2021 11:47am USER: mrcin

FILE NAME: \\mmr\proj\proj\10171-22\G006\Construction\01_GENERAL\Part A\PER9519-1297284-0-006.dwg LAYOUT NAME: SCOPE OF WORK SUMMARY (PART A) PLOTTED: Thursday, July 01, 2021 - 11:50am USER: marlin



SCOPE OF WORK - SITE PLAN
SCALE: 1:800



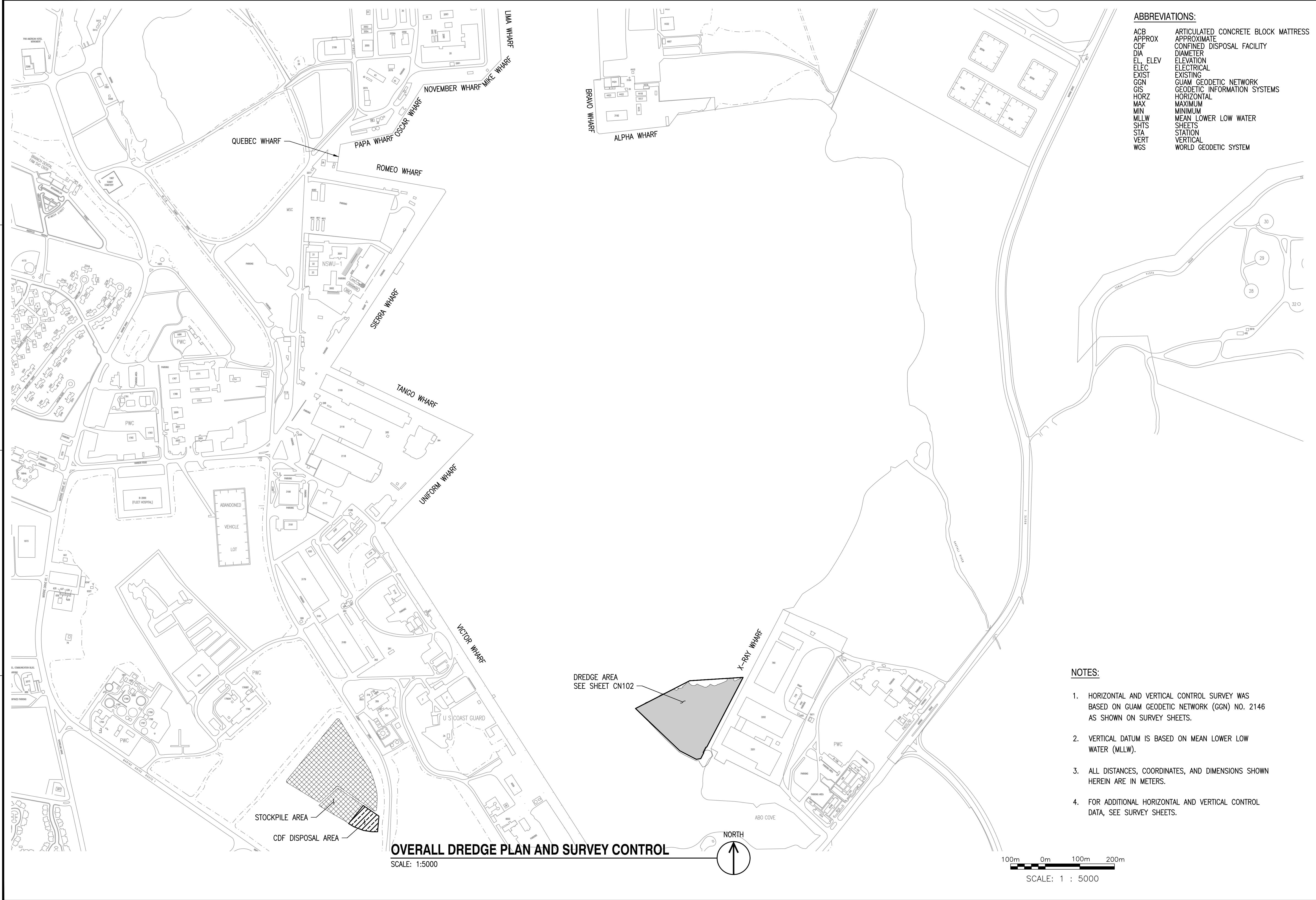
- LEGEND:**
- INDICATES MOORING BOLLARD
 - INDICATES CFCI FENDER
 - INDICATES GFCI FENDER
 - INDICATES EXISTING FENDER TO BE SALVAGED FROM CORNER OF BERTH 1 AND REUSED AT BERTH 2
 - INDICATES EXISTING FENDER
 - INDICATES WHARF WIDENING W/ CONC WHARF OPERATION DECK AND DEEP SOIL MIXING
 - INDICATES BACKLANDS AC PAVING
 - INDICATES CONC WHARF OPERATION DECK OVER EXISTING WHARF
 - INDICATES SUBSTATION

- NOTES:**
1. THE CONTRACTOR MUST BE RESPONSIBLE FOR COORDINATING THE WORK AMONG THE VARIOUS TRADES AS NECESSARY TO AVOID CONFLICTS AND TO INSURE THE INSTALLATION OF ALL WORK WITHIN THE AVAILABLE SPACE.
 2. FOR IDENTIFICATION OF PART A AND PART B WORK, SEE G-007 AND RFP PART 3.
 3. SEE PART B DRAWINGS FOR SITE UTILITIES.




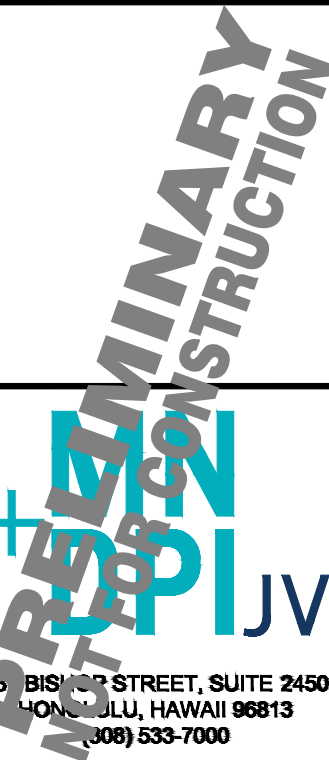
	DATE
	DESCRIPTION
	SYM
PRELIMINARY CONSTRUCTION 3 BISHOP STREET, SUITE 2450 HONOLULU, HAWAII 96813 (808) 533-7000	
APPROVED	
FOR COMMANDER NAVFAC DATE	
ACTIVITY	
SATISFACTORY TO DATE	
DES	BE
DRW	DW
REV	FM
DM	
BRANCH MANAGER	
CHIEF ENG	
FIRE PROTECTION	
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND NAVFAC PACIFIC HONOLULU, HAWAII CUMM	
FY22 MCON PROJECT P-519 X-RAY WHARF IMPROVEMENTS (BERTH 2) SCOPE OF WORK SUMMARY (PART A)	
SCALE: AS NOTED	
PROJECT NO.: 1297284	
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO.	
SHEET 6 OF	
G-006	

FILE NAME: C:\H\10171-22\CADD\Active\Construction\03_CDW\PIER519-1297284-CN-101.dwg LAYOUT NAME: OVERALL DREDGE PLAN AND SURVEY CONTROL PLOTTED: Wednesday, June 30, 2021 - 9:15am USER: infcrlbr



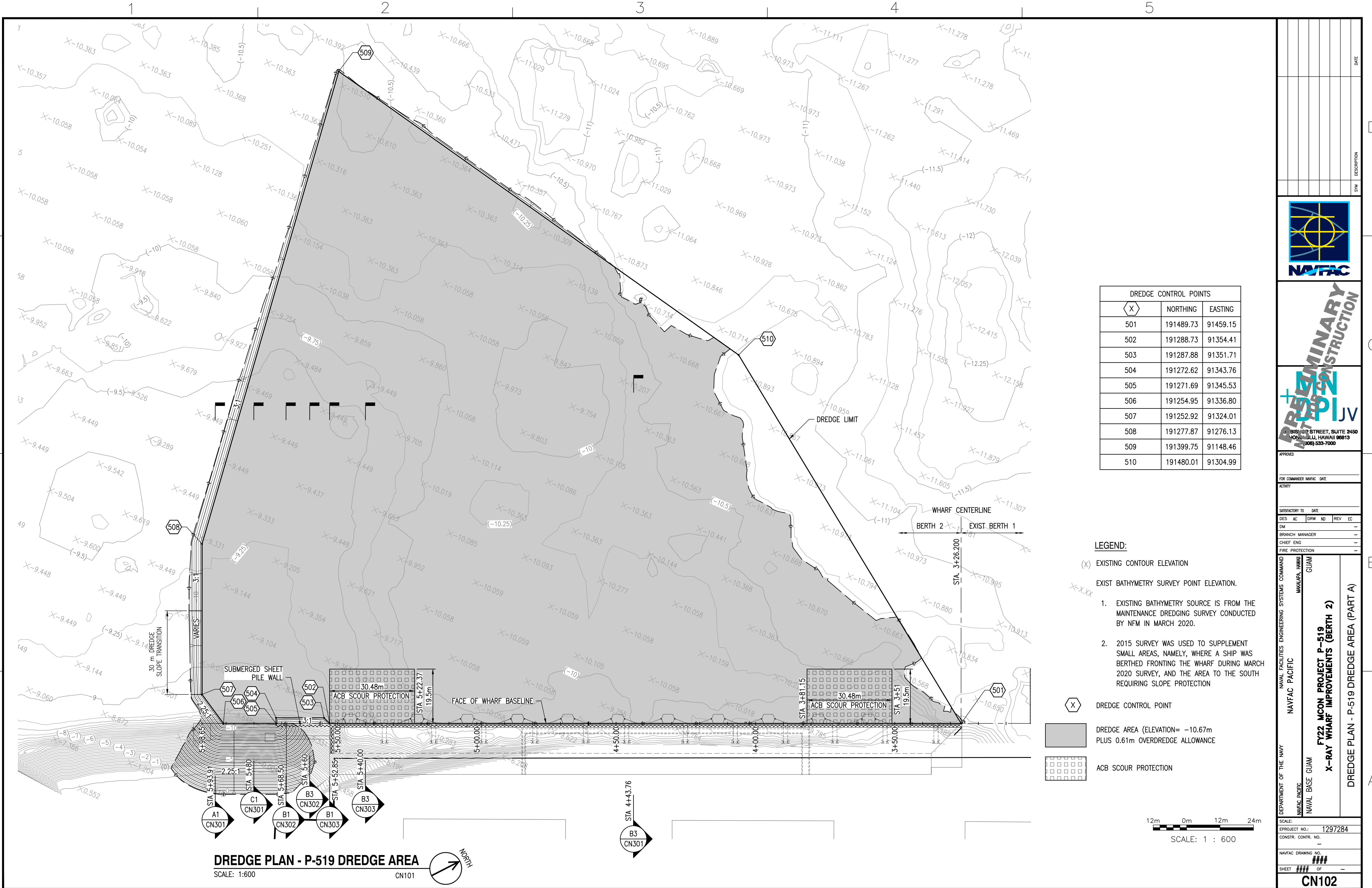
ABBREVIATIONS:

ACB	ARTICULATED CONCRETE BLOCK MATTRESS
APPROX	APPROXIMATE
CDF	CONFINED DISPOSAL FACILITY
DIA	DIAMETER
EL	ELEVATION
ELEC	ELECTRICAL
EXIST	EXISTING
GGN	GUAM GEODETIC NETWORK
GIS	GEODETIC INFORMATION SYSTEMS
HORZ	HORIZONTAL
MAX	MAXIMUM
MIN	MINIMUM
MLLW	MEAN LOWER LOW WATER
SHTS	SHEETS
STA	STATION
VERT	VERTICAL
WGS	WORLD GEODETIC SYSTEM

	DATE				
	DESCRIPTION				
	SYM				
					
					
BISHOP STREET, SUITE 2450 HONOLULU, HAWAII 96813 (808) 533-7000					
APPROVED					
FOR COMMANDER NAVFAC DATE					
ACTIVITY					
SATISFACTORY TO DATE					
DES	AC	DRW	NO	REV	EC
DM	BRANCH MANAGER				
CHIEF	ENG				
FIRE PROTECTION					
DEPARTMENT OF THE NAVY	NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND	NAVFAC PACIFIC	MAJLUDA, HAWAII	CUMM	CUMM
NAVFAC PACIFIC	FY22 MCON PROJECT P-519 X-RAY WHARF IMPROVEMENTS (BERTH 2)		OVERALL DREDGE PLAN AND SURVEY CONTROL (PART A)		
SCALE:					
EPROJECT NO.: 1297284					
CONSTR. CONTR. NO. -					
NAVFAC DRAWING NO. XXXXXXXX					
SHEET OF -					
CN101					

- NOTES:**
- HORIZONTAL AND VERTICAL CONTROL SURVEY WAS BASED ON GUAM GEODETIC NETWORK (GGN) NO. 2146 AS SHOWN ON SURVEY SHEETS.
 - VERTICAL DATUM IS BASED ON MEAN LOWER LOW WATER (MLLW).
 - ALL DISTANCES, COORDINATES, AND DIMENSIONS SHOWN HEREIN ARE IN METERS.
 - FOR ADDITIONAL HORIZONTAL AND VERTICAL CONTROL DATA, SEE SURVEY SHEETS.

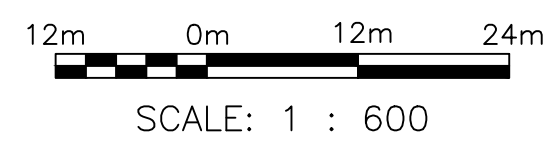
OVERALL DREDGE PLAN AND SURVEY CONTROL
 SCALE: 1:5000



DREDGE CONTROL POINTS		
(X)	NORTHING	EASTING
501	191489.73	91459.15
502	191288.73	91354.41
503	191287.88	91351.71
504	191272.62	91343.76
505	191271.69	91345.53
506	191254.95	91336.80
507	191252.92	91324.01
508	191277.87	91276.13
509	191399.75	91148.46
510	191480.01	91304.99

LEGEND:

- (X) EXISTING CONTOUR ELEVATION
- EXIST BATHYMETRY SURVEY POINT ELEVATION.
- 1. EXISTING BATHYMETRY SOURCE IS FROM THE MAINTENANCE DREDGING SURVEY CONDUCTED BY NFM IN MARCH 2020.
- 2. 2015 SURVEY WAS USED TO SUPPLEMENT SMALL AREAS, NAMELY, WHERE A SHIP WAS BERTHED FRONTING THE WHARF DURING MARCH 2020 SURVEY, AND THE AREA TO THE SOUTH REQUIRING SLOPE PROTECTION
- (X) DREDGE CONTROL POINT
- [Shaded Area] DREDGE AREA (ELEVATION= -10.67m PLUS 0.61m OVERDREDGE ALLOWANCE)
- [Grid Pattern] ACB SCOUR PROTECTION



DREDGE PLAN - P-519 DREDGE AREA
SCALE: 1:600

	DATE
	DESCRIPTION
	SW
NAVY BISHOP STREET, SUITE 2450 HONOLULU, HAWAII 96813 (808) 533-7000	
APPROVED	
FOR COMMANDER NAVFAC DATE	
ACTIVITY	
SATISFACTORY TO DATE	
DES AC	DRW NO
REV EC	
DM	
BRANCH MANAGER	
CHIEF ENG	
FIRE PROTECTION	
DEPARTMENT OF THE NAVY NAVFAC PACIFIC MAWALUA, HAWAII NAVAL BASE GUAM FY22 MCON PROJECT P-519 X-RAY WHARF IMPROVEMENTS (BERTH 2) DREDGE PLAN - P-519 DREDGE AREA (PART A)	
SCALE: 1:600	
PROJECT NO.: 1297284	
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO. ###	
SHEET ### OF ###	
CN102	

IF SHEET IS LESS THAN 22" X 34" REDUCED PRINT. USE GRAPHIC SCALES

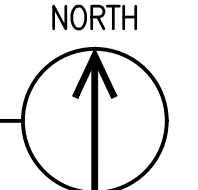
4 THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE WORK AMONG THE VARIOUS TRADES AS NECESSARY TO AVOID CONFLICTS AND TO INSURE THE INSTALLATION OF ALL WORK WITHIN THE AVAILABLE SPACE.


FILE NAME: O:\HA\10171+2\2\CAD\01_Active\Construction\03_CAD\PIE9519-1297284-CN-102.dwg LAYOUT NAME: DREDGE PLAN PLOTTED: Wednesday, June 30, 2021 - 9:16am USER: mofcher

FILE NAME: C:\H\10171-22\CADD\Active\Construction\03_CDW\PIER519-1297284-CN104.dwg LAYOUT NAME: OFFSHORE DREDGE MATERIAL DISPOSAL PLAN PLOTTED: Wednesday, June 30, 2021 - 9:18am USER: mforster

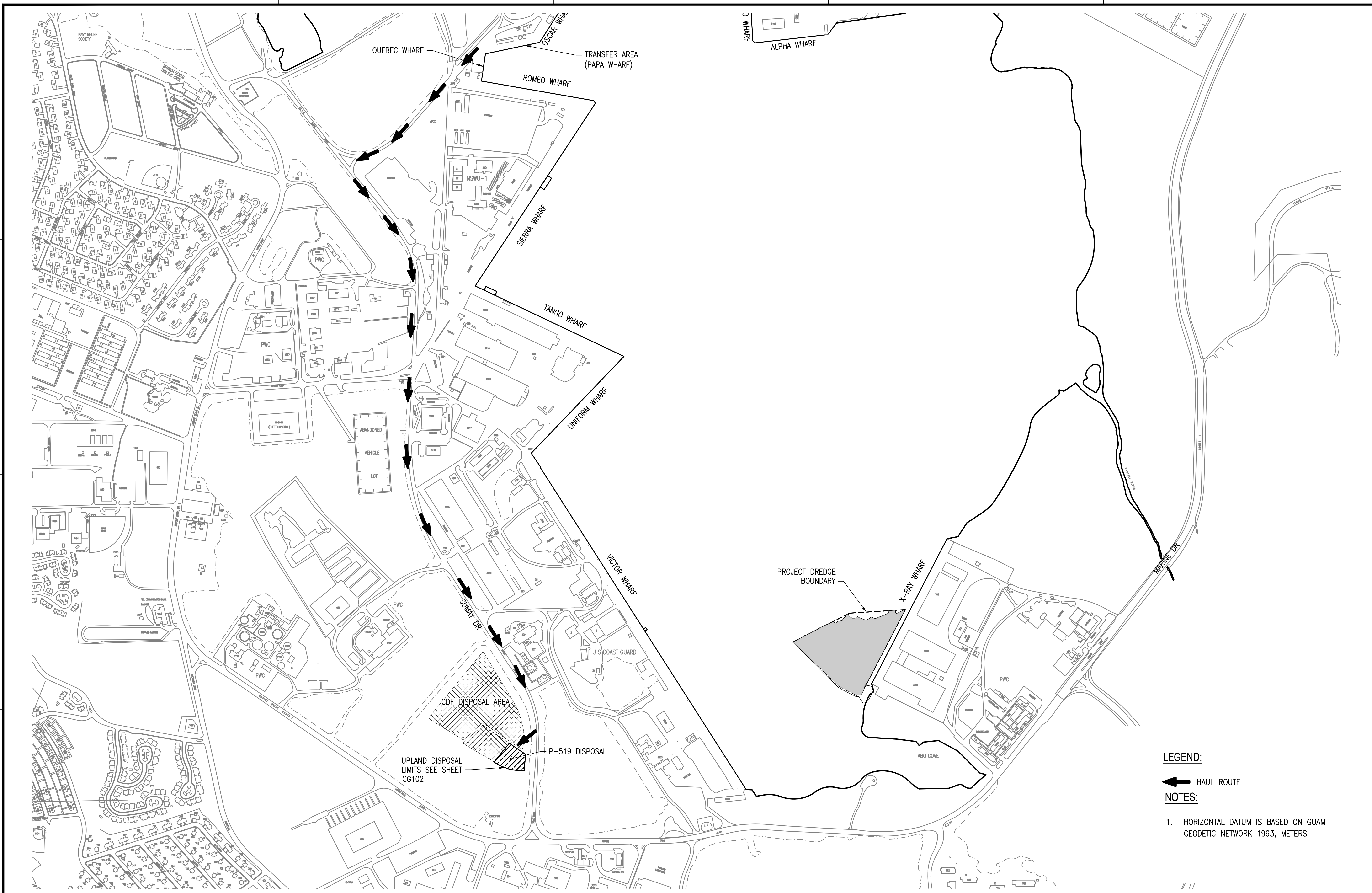


OFFSHORE DREDGE MATERIAL DISPOSAL PLAN
SCALE: NOT TO SCALE

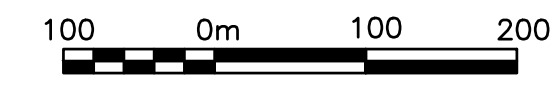
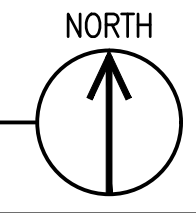


DATE	
DESCRIPTION	
SYN	
 PRELIMINARY FOR CONSTRUCTION  BISHOP STREET, SUITE 2450 HONOLULU, HAWAII 96813 (808) 533-7000	
APPROVED	
FOR COMMANDER NAVFAC	DATE
ACTIVITY	
SATISFACTORY TO	DATE
DES AC	DRW NO
REV	EC
DM	
BRANCH MANAGER	
CHIEF ENG	
FIRE PROTECTION	
DEPARTMENT OF THE NAVY	NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVFAC PACIFIC	MAKALAPA, HAWAII
NAVFAC PACIFIC	CUAM
NAVAL BASE CUAM	
FY22 MCON PROJECT P-519 X-RAY WHARF IMPROVEMENTS (BERTH 2) OFFSHORE DREDGE MATERIAL DISPOSAL PLAN (PLAN A)	
SCALE:	
EPROJCT NO.:	1297284
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO.	XXXXXXXX
SHEET XX	OF
CN104	


FILE NAME: C:\H\10171-221_CADD_Active_Construction\03_DWG_PIEPES19-1297284-CG101.dwg LAYOUT NAME: CDF OVERALL SITE PLAN AND HAUL ROUTE PLOTTED: Wednesday, June 30, 2021 - 9:20am USER: mforlier





CONFINED DISPOSAL FACILITY (CDF) OVERALL SITE PLAN AND HAUL ROUTE
 SCALE: 1:5000



SCALE: 1 : 5000

LEGEND:
 HAUL ROUTE
NOTES:

1. HORIZONTAL DATUM IS BASED ON GUAM
 GEODETIC NETWORK 1993, METERS.

DATE	
SYN	DESCRIPTION
	
	
BISHOP STREET, SUITE 2450 HONOLULU, HAWAII 96813 (808) 533-7000	
APPROVED	
FOR COMMANDER NAVFAC	DATE
ACTIVITY	
SATISFACTORY TO	DATE
DES AC	DRW NO
REV EC	
DM	
BRANCH MANAGER	
CHIEF ENG	
FIRE PROTECTION	
DEPARTMENT OF THE NAVY	NAVFAC PACIFIC
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND	MAGUADA, HAWAII
NAVFAC PACIFIC	CUM
NAVY BASE GUAM	CUM
FY22 MCON PROJECT P-519 X-RAY WHARF IMPROVEMENTS (BERTH 2)	
CDF OVERALL SITE PLAN AND HAUL ROUTE (PART A)	
SCALE:	
EPROJCT NO.:	1297284
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO.	
	XXXXXXX
SHEET XX	OF

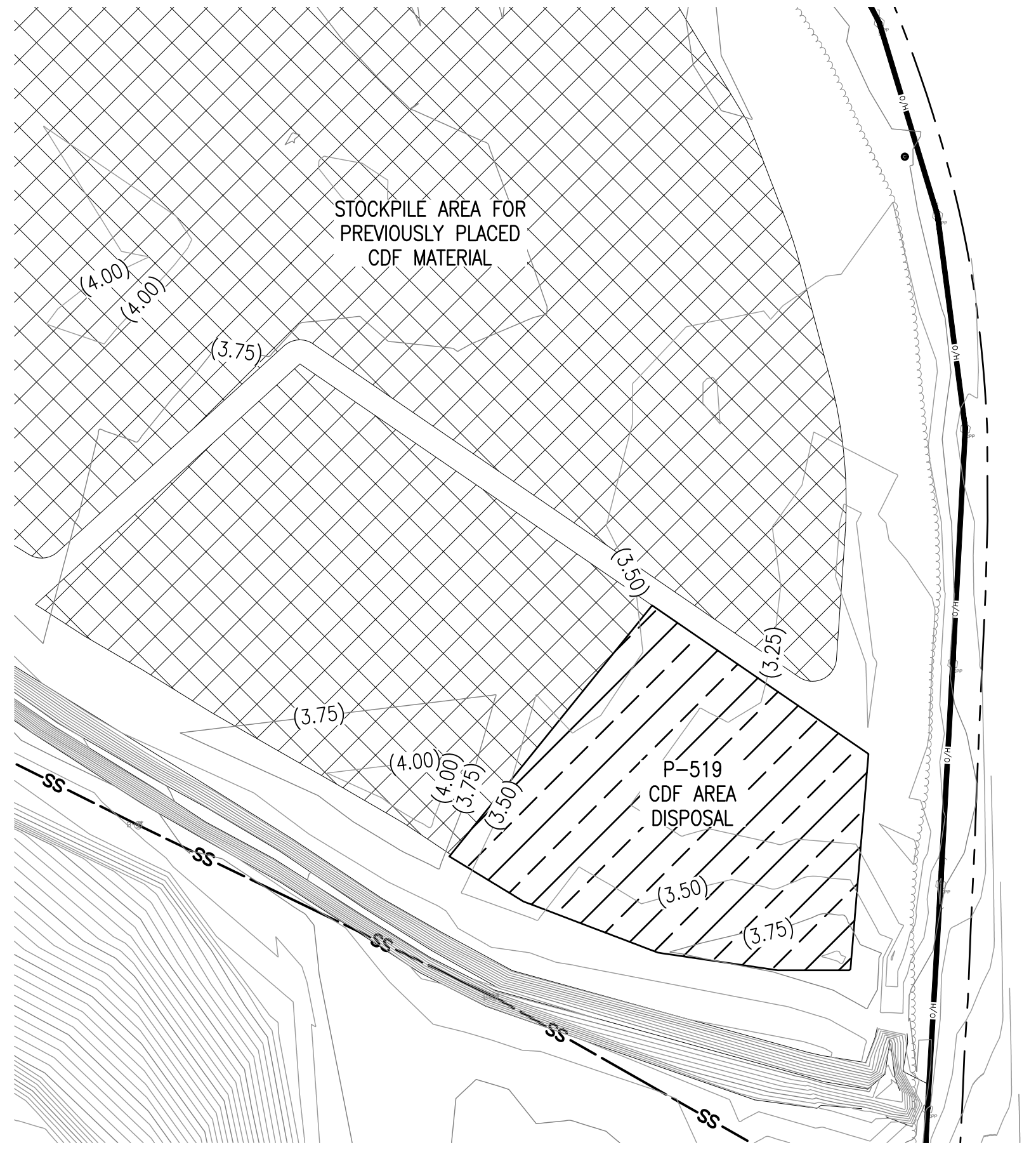
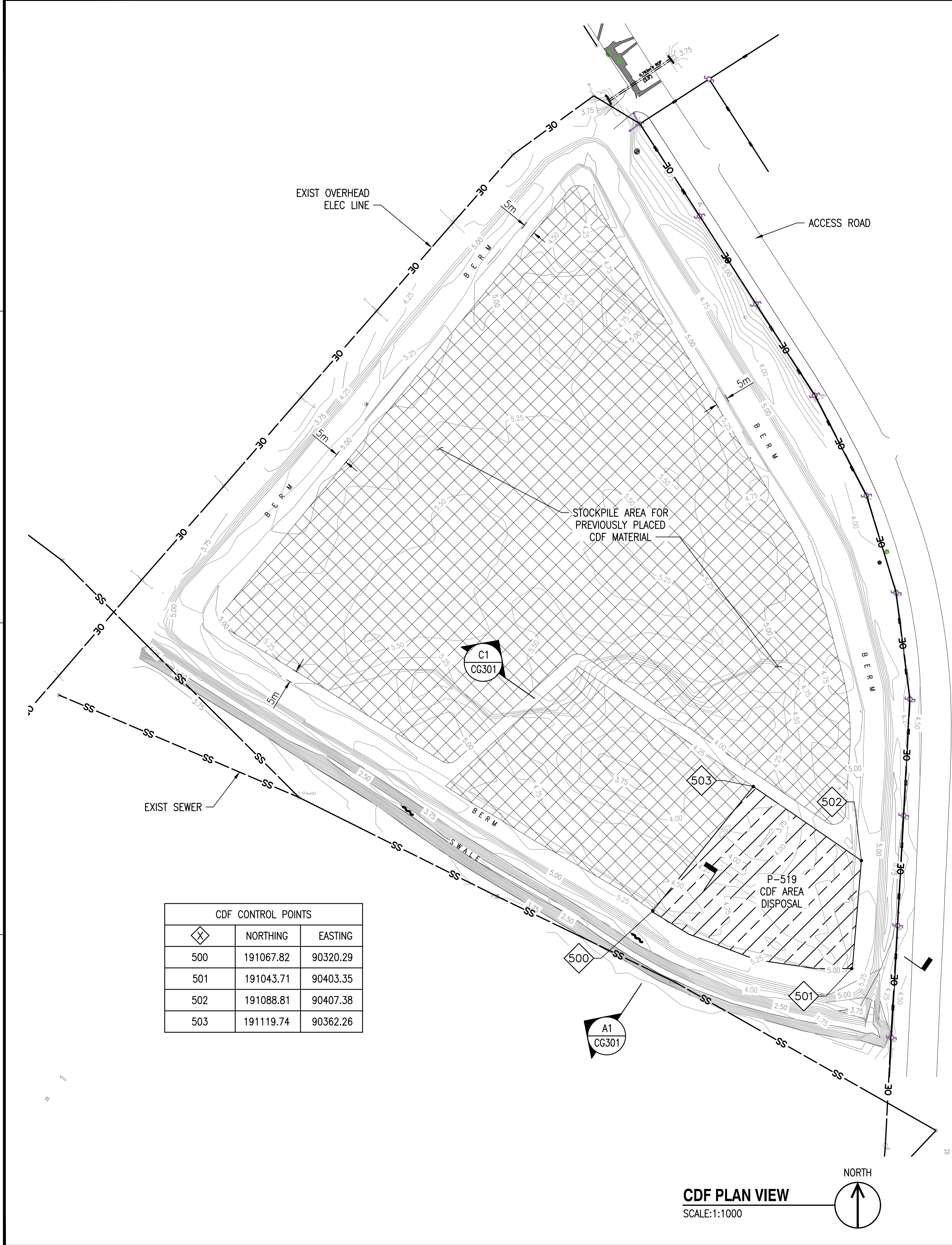
CG101

100% SUBMITTAL - 7 JULY 2021

4 IF SHEET IS LESS THAN 22" X 34"
 REDUCED PRINT. USE GRAPHIC SCALES

4 THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE WORK
 AMONG THE VARIOUS TRADES AS NECESSARY TO AVOID CONFLICTS AND TO
 INSURE THE INSTALLATION OF ALL WORK WITHIN THE AVAILABLE SPACE.

FILE NAME: O:\H\10171-2\1_CADD\Active\Construction\03_CDM\PIE9519-1297284-CG102.dwg LAYOUT NAME: CDF PLAN VIEW PLOTTED: Wednesday, June 30, 2021 - 9:21am USER: mofisher

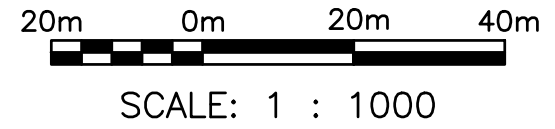


LEGEND:

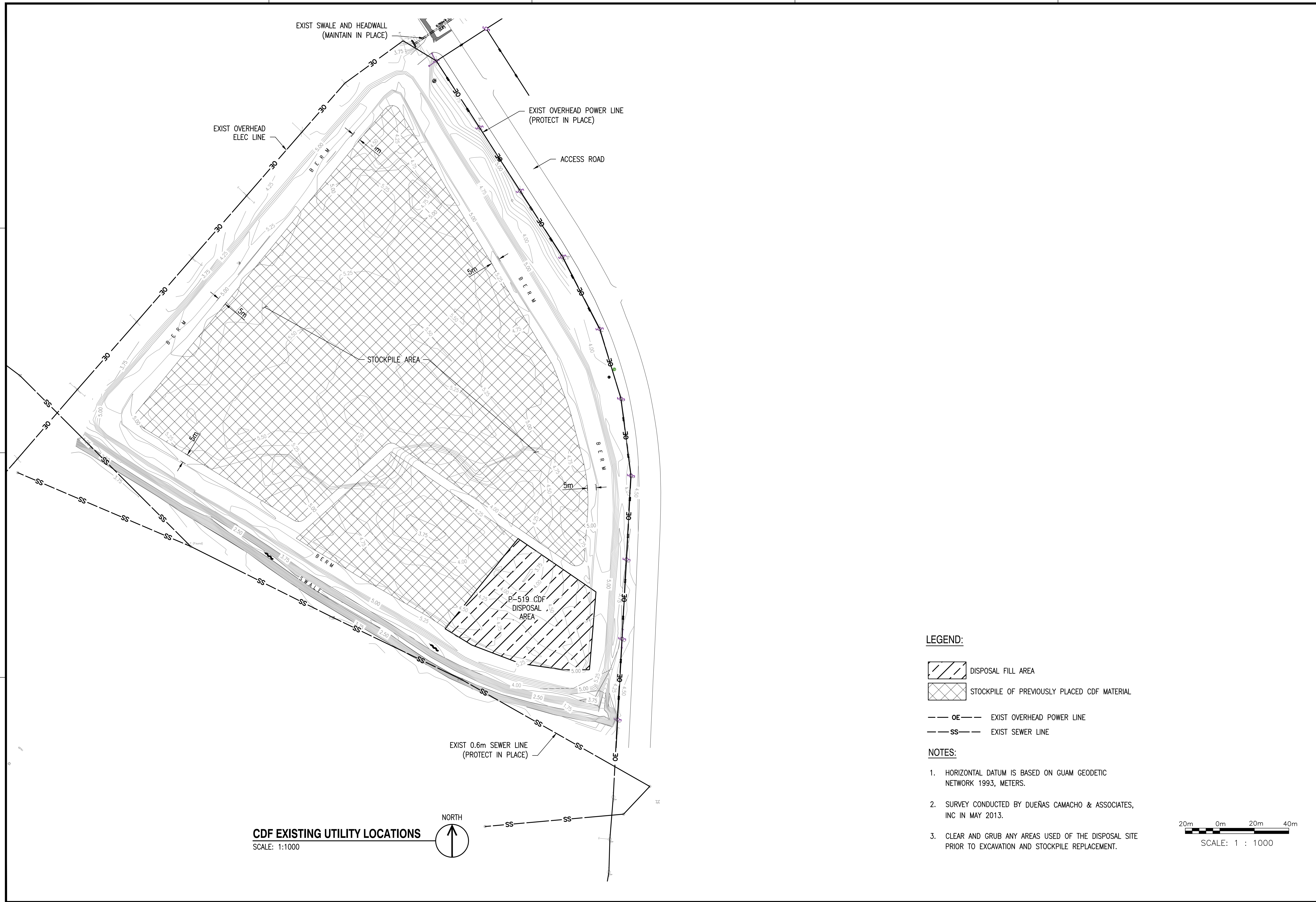
- DISPOSAL FILL AREA
- STOCKPILE OF PREVIOUSLY PLACED CDF MATERIAL
- EXIST OVERHEAD POWER LINE
- EXIST SEWER LINE

NOTES:

1. HORIZONTAL DATUM IS BASED ON GUAM GEODETIC NETWORK 1993, METERS.
2. SURVEY CONDUCTED BY DUEÑAS CAMACHO & ASSOCIATES, INC IN MAY 2013.
3. CLEAR AND GRUB ANY AREAS USED OF THE DISPOSAL SITE PRIOR TO EXCAVATION AND STOCKPILE REPLACEMENT.



DATE	
DESCRIPTION	
DATE	
DESCRIPTION	
BISHOP STREET, SUITE 2450 HONOLULU, HAWAII 96813 (808) 533-7000	
APPROVED	
PER COMMANDER NAVFAC	DATE
ACTIVITY	
SATISFACTORY TO	DATE
DES AC	DRW NO
REV	EC
DM	
BRANCH MANAGER	
CHIEF ENG	
FIRE PROTECTION	
DEPARTMENT OF THE NAVY	NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVFAC PACIFIC	NAVFAC HAWAII
NAVFAC PACIFIC	MAKALAPA, HAWAII
NAVAL BASE GUAM	CUM
FY22 MCON PROJECT P-519 X-RAY WHARF IMPROVEMENTS (BERTH 2)	
CDF PLAN VIEW (PART A)	
SCALE:	
EPROJCT NO.:	1297284
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO.	XXXXXXXX
SHEET XX	OF
CG102	



LEGEND:

DISPOSAL FILL AREA

STOCKPILE OF PREVIOUSLY PLACED CDF MATERIAL

OE --- EXIST OVERHEAD POWER LINE

SS --- EXIST SEWER LINE

- NOTES:**
- HORIZONTAL DATUM IS BASED ON GUAM GEODETIC NETWORK 1993, METERS.
 - SURVEY CONDUCTED BY DUEÑAS CAMACHO & ASSOCIATES, INC IN MAY 2013.
 - CLEAR AND GRUB ANY AREAS USED OF THE DISPOSAL SITE PRIOR TO EXCAVATION AND STOCKPILE REPLACEMENT.



FILE NAME: C:\HA\10171+22\CAD\PIERP519-1297284-CG103.dwg LAYOUT NAME: CDF EXISTING UTILITY LOCATIONS PLOTTED: Wednesday, June 30, 2021 9:27 am USER: mofler

DATE	
DESCRIPTION	
SW	

PRELIMINARY CONSTRUCTION

NAVAFAC ENGINEERING SYSTEMS COMMAND
MAQUADA, HAWAII
GUAM

NAVFAC PACIFIC
NAVAL BASE GUAM

**FY22 MCON PROJECT P-519
X-RAY WHARF IMPROVEMENTS (BERTH 2)**

CDF EXISTING UTILITY LOCATIONS (PART A)

APPROVED					
PER COMMANDER NAVFAC					
DATE					
ACTIVITY					
SATISFACTORY TO					
DATE					
DES	AC	DRW	NO	REV	EC
DM					
BRANCH MANAGER					
CHIEF ENG					
FIRE PROTECTION					

SCALE:	
PROJECT NO.:	1297284
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO.	XXXXXXXX
SHEET XX	OF --

CG103