



DEPARTMENT OF THE ARMY
SAN FRANCISCO DISTRICT, US ARMY CORPS OF ENGINEERS
450 GOLDEN GATE AVENUE
SAN FRANCISCO, CA 94102-3404

June 24, 2024

Operations and Readiness Division

SUBJECT: File Number SPN-2012-00207 Maintenance Dredging; Individual Permit; Second Transmittal

James B. Pruett
San Mateo County Harbor District
504 Ave Alhambra
El Granada, California 94018

Dear Mr. Pruett:

Enclosed is your signed copy of a Department of the Army permit (Enclosure 1) to dredge approximately 114,000 cubic yards of sediment from Pillar Point Harbor, with placement of dredged material on Surfers Beach and at the eelgrass mitigation site.

Please complete the appropriate parts of the "Project Status" form (Enclosure 2) for each episode and return them to this office. You are responsible for ensuring that the contractor (or workers) executing the activity authorized herein is knowledgeable with the terms and conditions of this authorization.

Be advised that your signed permit will NOT be an authorization to proceed. You must first fulfill the requirements of Standard DMMO Conditions 9b, 9c, and 9d on pages 3B and 3C. It is important that all the information requested in the above-mentioned Standard DMMO Conditions is submitted to avoid delays to your project. You are also responsible for all other general and special conditions contained in your permit.

Should you have any questions please call Debra O'Leary at (415) 503-6807 or e-mail to debra.a.oleary@usace.army.mil. If you wish to write, please address all correspondence to Debra O'Leary, Operations and Readiness Division and refer to the file number at the head of this letter.

Sincerely,

Jessica M. Vargas
Chief, Dredged Material Management Office
Operations and Readiness Division

Enclosures

Copy Furnished:

US EPA, San Francisco, CA, Attn: Jennifer Siu
US NMS, San Francisco, CA Attn: Lilli Ferguson
CA CCC, San Francisco, CA, Attn: Erik Martinez
CA RWQCB, Oakland, CA, Attn: Tasha Sturgis
CA DFW, Monterey, CA, Attn: Amanda Canepa



DEPARTMENT OF THE ARMY
SAN FRANCISCO DISTRICT, U.S. ARMY CORPS OF ENGINEERS
450 GOLDEN GATE AVENUE
SAN FRANCISCO, CALIFORNIA 94102-3404

DEPARTMENT OF THE ARMY PERMIT

PERMITTEE: James Pruett, San Mateo County Harbor District

PERMIT NO. SPN-2012-00207

ISSUING OFFICE: **San Francisco District, U.S. Army Corps of Engineers (USACE)**

NOTE: The term "you" and its derivatives, as used in this permit, means the permittee or any future transferee. The term "this office" refers to the appropriate District or Division office of the Corps of Engineers having jurisdiction over the permitted activity or the appropriate official of that office acting under the authority of the commanding officer.

You are authorized to perform work in accordance with the terms and conditions specified below:

PROJECT DESCRIPTION

The permittee is authorized to remove approximately 100,000 cubic yards (cys) of clean sand accumulated along the inside of Pillar Point Harbor's East Breakwater and conduct a one-time placement of that sand to form an elevated berm along an approximately 1,000-foot-long section of shoreline at Surfers Beach and remove approximately 14,000 cys of sediment from the harbor's boat ramp area to be used as fill needed to create a shallow area in the harbor's west basin for the eelgrass planting site at Pillar Point Harbor located in Half Moon Bay, in the Pacific Ocean adjacent to El Granada, San Mateo County, California. The design depth for the Pillar Point Harbor dredging is -8 feet NAVD 1988. The material will be removed using a hydraulic dredge and piped to Surfer's Beach or the eelgrass mitigation site. Work shall be conducted in accordance with the attached drawings entitled, "Surfers Beach Pilot Project Final Design Draft," in 16 sheets, dated May 17, 2023.

Prior to each dredging episode, the permittee is authorized to conduct sediment sampling in accordance with appropriate testing procedure. The Dredge Material Management Office (DMMO) will evaluate the sediments to be dredged for disposal or reuse suitability. The DMMO includes representatives from the U.S. Environmental Protection Agency, San Francisco Bay Conservation and Development Commission (BCDC), San Francisco Bay Regional Water Quality Control Board (RWQCB), and the U.S. Army Corps of Engineers (Corps). The DMMO is tasked with approving sampling and analysis plans in conformity with testing manuals, reviewing the test results and reaching consensus regarding a suitable disposition for the material.

PROJECT LOCATION: The Pillar Point Harbor and Surfer's Beach are located in Half Moon Bay, in the Pacific Ocean adjacent to El Granada, San Mateo County, California.

GENERAL CONDITIONS:

1. The time limit for completing the work authorized ends on **June 20, 2029**. If you find that you need more time to complete the authorized activity, submit your request for a time extension to this office for consideration at least one month before the above date is reached.

2. You must maintain the activity authorized by this permit in good condition and in conformance with the terms and conditions of this permit. You are not relieved of this requirement if you abandon the permitted activity, although

you may make a good faith transfer to a third party in compliance with General Condition 4 below. Should you wish to cease to maintain the authorized activity or should you desire to abandon it without a good faith transfer, you must obtain a modification of this permit from this office, which may require restoration of the area.

3. If you discover any previously unknown historic or archeological remains while accomplishing the activity authorized by this permit, you must immediately notify this office of what you have found. We will initiate the Federal and State coordination required to determine if the remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.

4. If you sell the property associated with this permit, you must obtain the signature of the new owner in the space provided and forward a copy of the permit to this office to validate the transfer of this authorization.

5. You shall comply with all terms and conditions set forth by the "*Clean Water Act Section 401 Water Quality Certification and Order for the Surfers Beach Pilot Restoration Project San Mateo County,*" issued by the San Francisco Regional Water Quality Control Board, under *WDID No. 2CW456550 on 10 June 2024.*

6. This authorization will not be effective until you have obtained a concurrence from the California Coastal Commission that your project will comply with California's Coastal Zone Management Act. You shall submit a copy of the concurrence to the Corps prior to the commencement of work. If a conditioned coastal zone consistency concurrence or determination has been issued for your project, you must comply with the conditions specified in the concurrence or determination as Special Conditions to this permit. (*Conditional Development Permit Notice of Intent to Issue Permit upon completion of Special Conditions, issued by California Coastal Commission, North Central Coast District Office, under CDP No. 2-22-0726, dated November 20, 2023*)

7. This authorization will not be effective until you have obtained a certification from the Department of Commerce that the proposed activities within the Greater Farallones National Marine Sanctuary comply with the Marine Protection, Research and Sanctuaries Act of 1972, as amended. A valid national marine sanctuary permit may serve as such certification. You shall submit a copy of the certification to the Corps prior to the commencement of work.

8. You must allow representatives from this office to inspect the authorized activity at any time deemed necessary to ensure that it is being or has been accomplished in accordance with the Terms and Conditions of your permit.

9. You understand and agree that, if future operations by the United States require the removal, relocation or other alteration of the structure or work authorized herein, or if, in the opinion of the Secretary of the Army or his authorized representative, said structure or work shall cause unreasonable obstruction to the free navigation of the navigable waters, you will be required, upon due notice from the Corps of Engineers, to remove, relocate, or alter the structural work or obstructions caused thereby, without expense to the United States. No claim shall be made against the United States on account of any such removal or alteration (Section 10 only).

SPECIAL CONDITIONS:

1. This Corps permit does not authorize you to take a threatened or endangered species. In order to remain exempt from the prohibitions of Section 9 of the Endangered Species Act, you must comply with the incidental take authorization for the endangered Black abalone (*Haliotis cracherodii*) under the enclosed National Marine Fisheries Service (NMFS) Biological Opinion (BO) entitled, "Endangered Species Act Section 7(a)(2) Biological Opinion, and Magnuson-Stevens Fishery Conservation and Management Act Essential Fish Habitat Response for the Pillar Point Harbor Dredging and Surfer's Beach Restoration Project (Corps File No. SPN-2012-00207)," dated February 23, 2024. The BO contains mandatory terms and conditions to implement the reasonable and prudent measures that are associated with "incidental take" that is also specified in the BO. Your authorization under this Corps permit is conditional upon your compliance with all the mandatory terms and conditions associated with incidental take authorized by the attached BO, whose terms and conditions are incorporated by reference in this permit. Failure to comply with the terms and conditions associated with incidental

take of the BO, where a take of the listed species occurs, would constitute an unauthorized take and it would also constitute non-compliance with this Corps permit. The NMFS is the appropriate authority to determine compliance with the terms and conditions of its BO and with the ESA.

2. The Corps also initiated consultation with the National Marine Fisheries Service (NMFS) to address project related impacts to list species, pursuant to Section 7(a) of the Endangered Species Act of 1973, as amended (16 U.S.C. Section 1531 et seq.). By letter of February 23, 2024, the NMFS concurred with the determination that the project was not likely to adversely affect Central California Coast steelhead DPS (*Oncorhynchus mykiss*), North American green sturgeon southern DPS (*Acipenser medirostris*), Leatherback Turtle (*Dermochelys coriacea*), and their designated critical habitat. Additionally, NMFS concurred with the determination that the proposed for listing species, Sunflower sea star (*Pycnopodia helianthoides*), was not likely to be adversely affected by the proposed project. This concurrence was premised, in part, on project work restrictions outlined in the concurrence. Any mitigation measures, including survey requirements and/or timing and work restrictions are incorporated as Special Conditions to this authorization to ensure unauthorized incidental take of species and loss of critical habitat does not occur.

3. The Corps also initiated consultation with the National Marine Fisheries Service (NMFS) to address project related impacts to Essential Fish Habitat (EFH) for Pacific Groundfish, Coastal Pelagic Species, and Pacific Coast Salmon, pursuant to Section 305(b)(4)(B) of the Magnuson-Stevens Fishery Conservation and Management Act, as amended (16 USC 1531 et seq.; 16 USC 1801, et seq.). NMFS concurred with our determination that the project would adversely affect EFH. Although adverse effects are anticipated as a result of the Project, the proposed minimization and avoidance measures, and best management practices described in the concurrence letter are sufficient to avoid, minimize, and/or mitigate for the anticipated effects. This concurrence was premised, in part, on the eelgrass mitigation plan outlined in the concurrence. The eelgrass mitigation plan, entitled “Pillar Point Harbor-Wide Eelgrass Management and Mitigation Plan,” dated July 27, 2020 (Revised December 16, 2023), is incorporated as a Special Condition to this authorization to ensure loss of EFH within Pillar Point Harbor does not occur.

4. The Corps initiated consultation with the United States Fish and Wildlife Service (USFWS) to address project related impacts to list species, pursuant to Section 7(a) of the Endangered Species Act of 1973, as amended (16 U.S.C. Section 1531 et seq.). By letter of December 28, 2022, the USFWS concurred with the determination that the project was not likely to adversely affect California least tern (*Sternula antillarum browni*), short-tailed albatross (*Phoebastria albatrus*), marbled murrelet (*Brachyrampus marmoratus*), Pacific Coast Distinct Population Segment of the western snowy plover (western snowy plover) (*Charadrius nivosus nivosus*), and southern sea otter (*Enhydra lutris nereis*). This concurrence was premised, in part, on project work restrictions outlined in the concurrence letter entitled, “Informal Consultation on the Pillar Point Harbor Dredging and Surfer’s Beach Restoration Project, El Granada, San Mateo County, California (U.S. Army Corps of Engineers File No. SPN-2012-00207),” dated December 28, 2022. The Conservation Measures listed in the concurrence letter, including timing and work restrictions are incorporated as Special Conditions to this authorization to ensure unauthorized incidental take of species and loss of critical habitat does not occur.

5. Additional Standard DMMO Conditions found on pages 3A-D (attached) shall be adhered to at all times.

STANDARD DMMO CONDITIONS TO PERMIT NUMBER SPN-2012-00207

1. Your use of the permitted activity must not interfere with the public's right to free navigation on all navigable waters of the United States.
2. You must have a copy of this permit available on the vessel used for the authorized transportation and disposal of dredged material.
3. You must advise this office as per Special Condition 12, on page 3D, **before** you start dredging activities under the authorization of this permit.
4. To provide notification of activities affecting navigation, the permittee shall provide the following information by fax, e-mail or standard mail to the contact listed below **at least two weeks before commencing work**:
 - a. Name and telephone number of the dredge and or project manager.
 - b. Size and placement of any floating construction equipment.
 - c. Radio telephone frequencies and call signs of any marine equipment.
 - d. Anticipated work start and completion dates.

Commander (dpw)
11th Coast Guard District
Coast Guard Island, Bldg 50-3
Alameda, California 94501-5100

POC:
Local Notice to Mariners
Waterways Management Branch
PH: 510-437-2980
FAX: 510-437-5836
E-MAIL: D11LNM@uscg.mil
5. The Coast Guard Captain of the Port of San Francisco Bay may require modifications to marine construction equipment deployment or mooring systems to safeguard navigation while work is in progress.
6. All vessels operated for disposal of dredged material are required to participate in the Coast Guard's Vessel Traffic Control Service (VTS). Five minutes before each departure, the permittee shall notify the VTS by radio, via Channel 14, of the following: The name of vessel; time of departure from dredge site; and time of departure from disposal site.
7. Placement of dredged material at Surfer's Beach and the eelgrass mitigation site shall be done in accordance with all best management practices (BMP) to ensure pipelines do not create navigation hazards. Pipelines running between dredge area and placement area should be clearly marked if the pipeline is within known navigation zones to avoid boat strikes.
8. All vessels operated for dredging and disposal of dredged material are required to use the Dredging Quality Management (DQM) system unless a waiver has been provided. The DQM system shall be implemented for activities under this permit when the project activity is using dredging equipment. The Permittee's DQM system must have been certified by the National DQM Support Center (DQM Center) within one calendar year prior to the initiation of the dredging/discharge/placement of sediments. The

Permittee is responsible for ensuring the DQM system is operational throughout the dredging and that the project data is submitted to the DQM Center in accordance with the specifications provided at the DQM website. Questions regarding codification and/or additional information about L3QM program should be addressed to the DQM Center at (877) 840-8024 and/or <https://dqm.usace.army.mil>.

9. The permittee shall submit the following reports for review and comment to:

U.S. Army Corps of Engineers, San Francisco District
Chief, Operations and Readiness Branch
Attn: Debra O'Leary
450 Golden Gate Avenue, 4th Floor, Room 1111
P.O. Box 36152
San Francisco, California 94102-3404

a. Dredge Material Analysis: Submit, for approval, no earlier than 60 days prior to the proposed commencement of any authorized successive dredging episodes, dredge material analysis (Physical, Chemical, and Biological) sampling and testing information. **Please include the U.S. Army Corps of Engineers (Corps) permit number and dredge episode number with this submittal.** Also submit Regional Water Quality Control Board (RWQCB) water quality certification or waiver for disposal of the material. For each dredging episode, the permittee shall obtain the approval of the District Engineer for formulating specific sediment testing procedures for the Dredged Material Analysis. The testing protocol will be in accordance with the testing guidelines as published in the Corps and U.S. Environmental Protection Agency publication entitled, "Evaluation of Dredged Material Proposed for Discharge in Waters of the U.S. - Testing Manual" (The Inland Testing Manual or ITM, EPA-823-B-98-004), dated February 1998, and subsequent amendments thereto. The permittee shall provide a copy of the Dredged Material Analysis to the U.S. Environmental Protection Agency, U.S. Fish and Wildlife Service, National Marine Fisheries Service, and California Department of Fish and Wildlife concurrent with the San Francisco Bay Conservation and Development Commission's RWQCB's, and the Corps' receipt of this information. Agency comments submitted to the Corps within 15 calendar days thereafter will be given full consideration in the decision on dredged material disposal.

b. Dredge Operation Plan: Submit, for approval by this office, no earlier than 60 calendar days and no later than 20 calendar days before the proposed commencement of dredging, a plan which includes the following: **Corps permit number**, a copy of the dredging contract or description of the work under which the contractor will do the permitted work; name and telephone numbers of the dredging contractor's representative on site; dredging start and completion dates; names of vessel; dump scow numbers or identification; bin or barge capacities; identification of work as either maintenance dredging or new dredging; discussion of proposed dredging procedures, quantity of material to be removed; dredging design depth and typical cross section including overdepth; and date of last dredging episode and design depth. The Dredge Operational Plan shall also provide the following information:

1. The controls being established to ensure that dredging operations occur within the limits defined by the channel dimensions and typical channel section. The horizontal and vertical positioning systems being utilized must be indicated as noted in 3, below.

2. The controls being established to ensure that disposal of the dredged

material at the placement site is at the assigned location and depth. The horizontal and vertical positioning systems being utilized must be indicated as noted in 3, below.

3. Method of determining electronic positioning of dredge or dump scow during entire dredging operation at dredge site, disposal site and en route to and from placement site.

Please note that failure to provide all of the above information may result in delays to your project. When your Dredge Operation Plan has been approved, you will receive a written authorization to commence with your project.

c. Pre-Dredge Survey: Submit no earlier than 60 calendar days and no later than 20 calendar days before commencement of dredging, a survey with accuracy to one-tenth foot that delineates and labels the following: areas to be dredged with overdepth allowances; existing depths; estimated quantities to be dredged to the design depth; and estimated quantities to the overdepth limit. **All surveys shall be signed by the permittee to certify their accuracy. Please include the Corps permit number and dredge episode number.**

Please note that failure to provide all the above information may result in delays to your project.

d. Solid Debris Management Plan: Submit no earlier than 60 calendar days and no later than 20 calendar days before commencement of work, a plan which describes measures to ensure that solid debris generated during any authorized dredging, demolition or construction operation is retained and properly disposed in areas not under Corps jurisdiction. **At a minimum, the plan shall include the following: source and expected type of debris; debris retrieval method; Corps permit number and dredge episode number; disposal method and site; schedule of disposal operations; and debris containment method to be used, if floatable debris is involved.**

Please note that failure to provide all the above information may result in delays to your project.

e. Post-Dredge Survey: Submit, **within 30 days of the last disposal activity** (“last” is defined as that activity after which no further activity occurs for 15 calendar days), a survey with accuracy to one-tenth foot that delineates and labels the areas dredged and the dredged depths. **Also, include the Corps permit number, dredge episode number, dates of dredging commencement and completion, actual quantities dredged to the design depth, and actual quantities to the overdepth limit.** The permittee shall substantiate the total quantity dredged by including calculations used to determine the volume difference (in cubic yards) between the Pre- and Post-Dredging Surveys and **explain any variation in quantities greater than 15% beyond estimated quantities or dredging deeper than is permitted (design plus overdepth allowance).** **All surveys shall be accomplished by a licensed surveyor and signed by the permittee to certify their accuracy.** A copy of the Post-Dredge Survey should be sent to the National Ocean Service for chart updating:

NOAA/National Ocean Service
Nautical Data Branch
N/CS26, SSMC3, Room 7230
1315 East-West Highway
Silver Spring, Maryland 20910-3282.

10. Disposal Site Verification Log (DSVL): Submit on a weekly basis by noon Monday, the log (downloadable from <http://www.spn.usace.army.mil/Portals/68/docs/Dredging/guidance/document2010-09-07-132110.pdf>) that enumerates work accomplished during the preceding week. Mail to:

U.S. Army Corps of Engineers, San Francisco District
Attn: DMMO
450 Golden Gate Avenue, 4th Floor, Room 1111
P.O. Box 36152
San Francisco, California 94102-3404;

or e-mail to the DMMO at dll-spn-dmmo@usace.army.mil. **Please include the Corps permit number and dredge episode number.** The log will be provided when the Corps approves the Dredge Operation Plan and authorizes the commencement of the dredging.

11. The permittee shall ensure that all dredged material is slurried prior to disposal to prevent any accumulation or build up of material at the disposal site. Dredged material will be either pumped with a centrifugal pump prior to leaving the dredge site for the disposal site.

12. **The permittee or dredge contractor shall inform this office when: 1) a dredge episode actually commences, 2) when dredging is suspended (suspension is when the dredge contractor leaves the dredge site for more than 48 hours for reasons other than equipment maintenance), 3) when dredging is restarted, and 4) when dredging is complete. Each notification should include the Corps permit number and dredge episode number.** The information can be sent to the attention of Debra O’Leary, in writing to the address below; e-mailed to dll-spn-dmmo@usace.army.mil or via telephone message at (415) 503-6807.

U.S. Army Corps of Engineers, San Francisco District
Chief, Operations and Readiness Division
Attn: Debra O’Leary
450 Golden Gate Avenue, 4th Floor, Room 1111
P.O. Box 36152
San Francisco, California 94102-3404

13. The permittee, as directed by the District Engineer under authority pursuant to the policies and procedures of 33 CFR 325.7, may be required to modify disposal schedules and monthly disposal quantities for particular dredging episodes.

14. The permittee shall allow the dredging area and equipment to be inspected by the Corps staff upon request.

15. **If a land, ocean, or other aquatic disposal site becomes available for use during the life of the permit, the permittee shall evaluate these disposal alternatives, taking into consideration cost, existing technology, and logistics in light of the overall project purpose to facilitate compliance with the 404(b)(1) Guidelines (40 CFR 230). This evaluation shall be submitted to the Corps at least 60 calendar days before commencement of subsequent dredging episodes. The District Engineer, upon review of this information and after consultation with other resource agencies, may direct the permittee to use such sites in lieu of or in addition to the San Pablo Bay Disposal Site (SF-10) or the Alcatraz Disposal Site (SF-11), under authority of 33 CFR 325.7 and 40 CFR 230.10(a).**

FURTHER INFORMATION:

1. Congressional Authorities: You have been authorized to undertake the activity described above pursuant to:

(X) Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. § 403). Section 10 of the Rivers and Harbors Act generally regulates all structures and work occurring below the plane of mean high water in tidal waters of the United States; in former diked baylands currently below mean high water; outside the limits of mean high water but affecting the navigable capacity of tidal waters; or below the plane of ordinary high water in non-tidal waters designated as navigable waters of the United States. Navigable waters of the United States generally include all waters subject to the ebb and flow of the tide; and/or all waters presently used, or have been used in the past, or may be susceptible for future use to transport interstate or foreign commerce. The term "structure" includes, without limitation, any pier, boat dock, boat ramp, wharf, dolphin, weir, boom, breakwater, bulkhead, revetment, riprap, jetty, artificial island or reef, permanent mooring structure, power transmission line, permanently moored floating vessel, piling, or any other obstacle or obstruction. The term "structure" does **not** include bridges and causeways constructed in or over navigable or tidal waters of the United States, since this regulatory responsibility has been delegated to the U.S. Coast Guard under the Department of Transportation Act of 1966 (Pub. L. No. 89-670). The term "work" includes, without limitation, any dredging or disposal of dredged material, filling, or other modification of a navigable water of the United States.

(X) Section 404 of the Clean Water Act (33 U.S.C. § 1344). Section 404 of the Clean Water Act generally regulates all discharges of dredged or fill material occurring below the plane of ordinary high water in non-tidal waters of the United States; or below the high tide line in tidal waters of the United States; and within the lateral extent of wetlands adjacent to these waters. Waters of the United States generally include the territorial seas; all traditional navigable waters which are currently used, or were used in the past, or may be susceptible to use in interstate or foreign commerce, including waters subject to the ebb and flow of the tide; wetlands adjacent to traditional navigable waters; non-navigable tributaries of traditional navigable waters that are relatively permanent, where the tributaries typically flow year-round or have continuous flow at least seasonally; and wetlands directly abutting such tributaries. Where a case-specific analysis determines the existence of a "significant nexus" effect with a traditional navigable water, waters of the United States may also include non-navigable tributaries that are not relatively permanent; wetlands adjacent to non-navigable tributaries that are not relatively permanent; and wetlands adjacent to but not directly abutting a relatively permanent non-navigable tributary. The term "dredged material" means material that is excavated or dredged from waters of the United States. The term "fill material" means material placed in waters of the United States where the material has the effect of replacing any portion of a water of the United States with dry land or of changing the bottom elevation of any portion of a water of the United States. Examples of such fill material include, but are not limited to, rock, sand, soil, clay, plastics, construction debris, wood chips, overburden from mining or other excavation activities, and materials used to create any structure or infrastructure in waters of the United States. The term "fill material" does not include trash or garbage.

() Section 103 of the Marine Protection, Research, and Sanctuaries Act of 1972 (33 U.S.C. § 1413). Section 103 of the Marine Protection, Research, and Sanctuaries Act generally regulates the transport of dredged material for the purpose of disposal in ocean waters. Ocean waters is defined as those waters of the open seas lying seaward of the base line from which the territorial seas is measured, as defined in the Convention of the Territorial Sea and the Contiguous Zone (15 UST 1606; TIAS 5639).

2. Limits of this authorization:

- a. This permit does not obviate the need to obtain other Federal, State, or local authorizations required by law.
- b. This permit does not grant any property rights or exclusive privileges.
- c. This permit does not authorize any injury to the property or rights of others.
- d. This permit does not authorize interference with any existing or proposed Federal project.

3. Limits of Federal Liability: In issuing this permit, the Federal Government does not assume any liability for the following:

a. Damages to the permitted project or uses thereof as a result of other permitted or unpermitted activities or from natural causes.

b. Damages to the permitted project or uses thereof as a result of current or future activities undertaken by or on behalf of the United States in the public interest.

c. Damages to persons, property, or to other permitted or unpermitted activities or structures caused by the activity authorized by this permit.

d. Design or construction deficiencies associated with the permitted work.

e. Damage claims associated with any future modification, suspension, or revocation of this permit.

4. Reliance on Applicant's Data: The determination of this office that issuance of this permit is not contrary to the public interest was made in reliance on the information you provided.

5. Reevaluation of Permit Decision: This office may reevaluate its decision on this permit at any time the circumstances warrant. Circumstances that could require a reevaluation include, but are not limited to, the following:

a. You fail to comply with the terms and conditions of this permit.

b. The information provided by you in support of your permit application proves to have been false, incomplete, or inaccurate. (See Item 4 above.)

c. Significant new information surfaces which this office did not consider in reaching the original public interest decision.

Such a reevaluation may result in a determination that it is appropriate to use the suspension, modification, and revocation procedures contained in 33 C.F.R. Section 325.7 or enforcement procedures such as those contained in 33 C.F.R. Sections 326.4 and 326.5. The referenced enforcement procedures provide for the issuance of an administrative order requiring you to comply with the Terms and Conditions of your permit and for the initiation of legal action where appropriate. You will be required to pay for any corrective measures ordered by this office, and if you fail to comply with such directive, this office may in certain situations (such as those specified in 33 C.F.R. Section 209.170) accomplish the corrective measures by contract or otherwise and bill you for the cost.

6. Extensions: General Condition 1 establishes a time limit for the completion of the activity authorized by this permit. Unless there are circumstances requiring either a prompt completion of the authorized activity or a reevaluation of the public interest decision, the Corps will normally give favorable consideration to a request for an extension of this time limit.

PERMITTEE: James Pruett, San Mateo County Harbor District
PERMIT NO. SPN-2012-00207
ISSUING OFFICE: San Francisco District, U.S. Army Corps of Engineers (USACE)

Your signature below, as permittee, indicates that you accept and agree to comply with the terms and conditions of this permit.




San Mateo County Harbor District
(PERMITTEE)

6/21/2024

(DATE)

This permit becomes effective when the Federal official, designated to act for the Secretary of the Army, has signed below.



Jessica M. Vargas
Chief, Dredged Material Management Office
Operations and Readiness Division

Digitally signed by
VARGAS.JESSICA.MARIE.1288359
675
Date: 2024.06.24 15:00:53 -07'00'
6/24/2024

(DATE)

When the structures or work authorized by this permit are still in existence at the time the property is transferred, the terms and conditions of this permit will continue to be binding on the new owner(s) of the property. To validate the transfer of this permit and the associated liabilities associated with compliance with its terms and conditions, have the transferee sign and date below.

(TRANSFEREE)

(DATE)

SURFERS BEACH PILOT PROJECT

FINAL DESIGN DRAFT MAY 17, 2023



STAMP
 PRELIMINARY
 NOT FOR
 CONSTRUCTION



PROJECT NAME
**SURFERS BEACH
 RESTORATION PROJECT
 PILOT**
 SAN MATEO COUNTY HARBOR DISTRICT
 504 AVENUE ALHAMBRA, STE 200
 P.O. BOX 1449, EL GRANADA, CA 94018

REVISIONS	#	DATE	DESCRIPTION

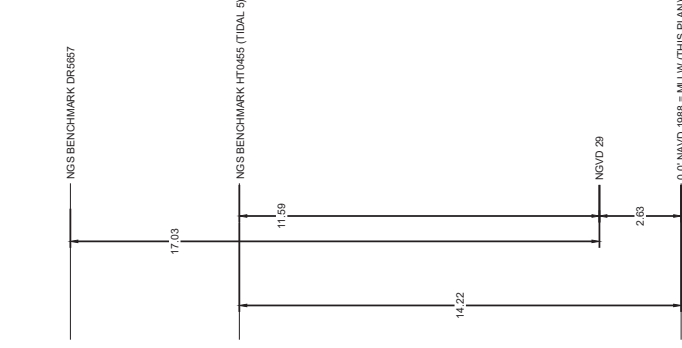
DESIGNED L. WHITE
 DRAWN S.S. M.A.
 CHECKED L. WHITE
 IN CHARGE L. WHITE
 C78659

PROJECT NUMBER 180631.00
 ISSUE DATE 05/17/23
 SCALE 8.5 X 11.0 INCHES
 PLOTTED TO FULL SIZE (22"X34")

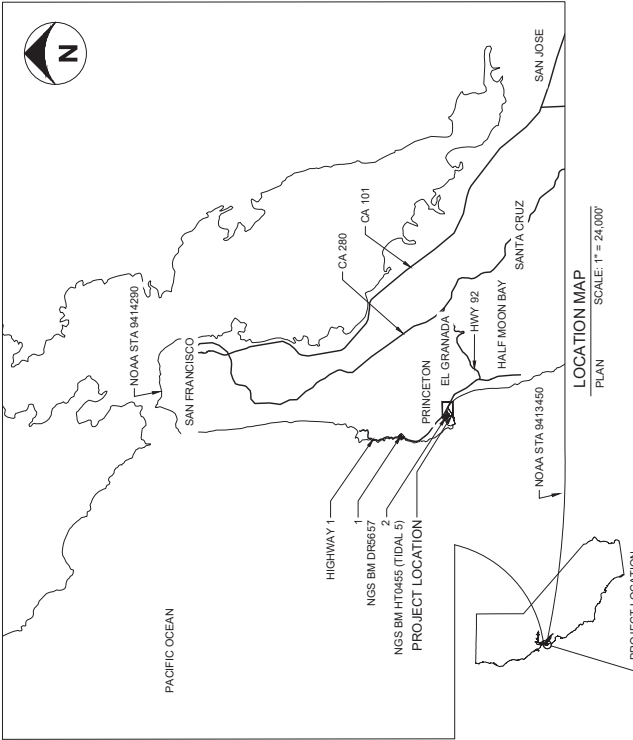
PHASE
 FINAL DESIGN
 SHEET TITLE

TITLE SHEET

SHEET NUMBER
G-01
 SHEET 01 OF 16



VICINITY MAP
 PLAN SCALE: 1" = 1,500'



LOCATION MAP
 PLAN SCALE: 1" = 24,000'

DEFINITIONS

PROJECT OWNER:
 SAN MATEO COUNTY HARBOR DISTRICT
 504 AVENUE ALHAMBRA, STE 200
 P.O. BOX 1449, EL GRANADA, CA 94018
 CONTACT: JOHAN MOREN
 PH: (650) 744-6183

PROJECT ENGINEER:
 ENVIRONMENTAL SCIENCE ASSOCIATES
 575 MARKET STREET SUITE 3700
 SAN FRANCISCO, CA 94105
 CONTACT: LOUIS WHITE, PE
 PH: (415) 896-5900

Sheet No.	Sheet Description	Sheet Title
01	G-01	TITLE SHEET
02	G-02	SITE PLAN
03	G-03	GENERAL NOTES LAYOUT LEGEND
04	C-01	EAST BASIN DREDGE AREA PLAN - 1
05	C-02	EAST BASIN DREDGE AREA PLAN - 2A
06	C-03	EAST BASIN DREDGE AREA PLAN - 2B
07	C-04	EAST BASIN DREDGE AREA 1 SECTIONS
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09	C-06	PHASE 1 EELGRASS MITIGATION AREA PLAN - 1
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11	C-08	PHASE 1 EELGRASS MITIGATION AREA SECTIONS - 1
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13	C-10	PHASE 2 SURFERS BEACH FILL AREA PLAN - 1
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15	C-12	PHASE 2 SURFERS BEACH FILL AREA SECTIONS - 1
16	C-13	PHASE 2 SURFERS BEACH FILL AREA SECTIONS - 2

**PRELIMINARY
 NOT FOR CONSTRUCTION**

FILE: P:\01 CAD\18XXXX\02\018631\00 - Surfers Beach Pilot Project\01\01 TITLE SHEET.dwg PLOT DATE: 5/17/2023 12:37:49 PM PLOTTED BY: MARCO ACCORDINO



PRELIMINARY
NOT FOR
CONSTRUCTION



SURFERS BEACH RESTORATION PROJECT PILOT

PROJECT NAME
SAN MATEO COUNTY HARBOR DISTRICT
P.O. BOX 1449, EL GRANADA, CA 94018

REVISIONS
DATE DESCRIPTION

DESIGNED	L. WHITE
DRAWN	S.S. M.A.
CHECKED	L. WHITE
IN CHARGE	L. WHITE
C76559	
PROJECT NUMBER	180631.00
ISSUE DATE	05/17/23
SCALE	AS SHOWN/WHEN PLOTTED TO FULL SIZE (22"x34")
PHASE	FINAL DESIGN
SHEET TITLE	

SITE PLAN

SHEET NUMBER
G-02
SHEET 02 OF 16



**PRELIMINARY
NOT FOR CONSTRUCTION**

LEGEND

	DREDGING AREA (SBPP (N/C) (GEN NOTE 2)
	DREDGING AREA (RHEMP & SBPP (N/C) (GEN NOTE 2)
	DREDGING PIPELINE
	PLACEMENT AREA
	EELGRASS BED
	POTENTIAL EELGRASS HABITAT
	CONSTRUCTION ACCESS ROUTE
	CONSTRUCTION STAGING AREA
	NAVIGATION KEEP CLEAR LIMITS



574 MARINE ST. FREET
SAN FRANCISCO, CA 94105
WWW.FSAECON.COM

PRELIMINARY
NOT FOR
CONSTRUCTION



RESTORATION PROJECT
PILOT
SURFERS BEACH

PROJECT NAME

#	DATE	DESCRIPTION
DESIGNED	L. WHITE	
DRAWN	S.S. M.A.	
CHECKED	L. WHITE	
IN CHARGE	L. WHITE	
PROJECT NUMBER	180631.00	
ISSUE DATE	05/17/23	
SCALE	AS SHOWN/WHEN PLOTTED TO FULL SIZE (22"x44")	

FINAL DESIGN

GENERAL NOTES
LAYOUT LEGEND

SHEET NUMBER

G-03

SHEET 03 OF 16

SURVEY NOTES

1. TOPOGRAPHIC MAP REPRESENT GENERAL CONDITIONS AT THE TIMES OF THE SURVEYS. CONDITIONS LIKELY VARY FROM THOSE SHOWN IN THESE DRAWINGS DUE TO COASTAL PROCESSES AND OTHER PROCESSES SINCE THE DATES OF THESE SURVEYS. VERIFY IN FIELD AND WITH PRE-CONSTRUCTION SURVEY.
2. HORIZONTAL DATUM/PROJECTION: NAD83 (2011), SPCS CALIFORNIA ZONE 03 - U.S. SURVEY FEET
3. VERTICAL DATUM: NAVD83, U.S. SURVEY FEET
4. AERIAL PHOTOGRAPH SOURCE IS NEARMAP DATED SEPTEMBER 2022. CONDITIONS LIKELY VARY DUE TO CHANGES SINCE THE DATE OF PHOTOGRAPHY. CONSTRUCTION CONTRACTOR SHALL VERIFY CONDITIONS AS NEEDED TO ACCOMPLISH THE WORK CONSISTENT WITH THE CONTRACT DOCUMENTS.

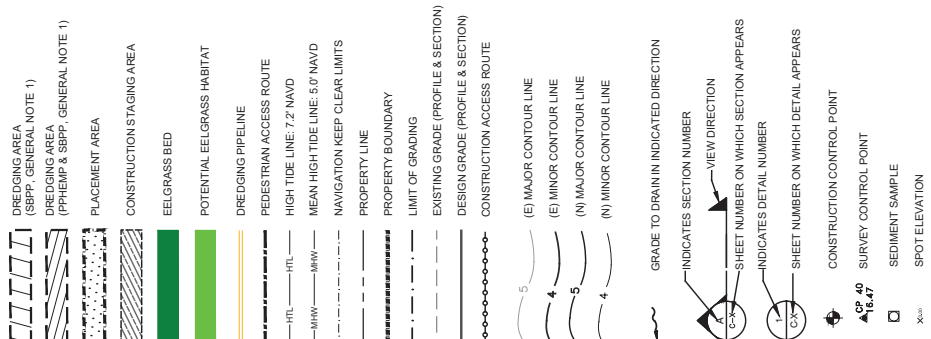
GENERAL NOTES

1. THESE NOTES HIGHLIGHT KEY REQUIREMENTS OF THE SPECIFICATIONS AND PROVIDE ADDITIONAL PROJECT INFORMATION. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS CONTAINED IN THE PLANS, SPECIFICATIONS, AND OTHER CONTRACT DOCUMENTS.
2. ELEVATION, CONTOURS, SOUNDINGS AND FEATURES ARE APPROXIMATE AND PROVIDED FOR GENERAL REFERENCE ONLY. CONTRACTOR SHALL VERIFY ALL DATA IN THE FIELD AND WITH PRE-CONSTRUCTION SURVEY. CONTRACTOR SHALL BE RESPONSIBLE FOR ESTIMATING ACTUAL DREDGE VOLUMES TO A CORRESPONDING QUANTITY USED FOR MEASUREMENT, PAYMENT AND ACCEPTANCE.
3. THE PROJECT IS PHASED:
 - a. PHASE 1: EEL GRASS MITIGATION. CONSTRUCT SAND SHOULDER SEDIMENT DREDGED FROM EAST BASIN 1B, 1C AND 2C AND MITIGATION DREDGE AREA. AFTER MITIGATION FILLS COMPLETE, DISTRICT WILL SALVAGE EEL GRASS FROM EAST BASIN DREDGE AREAS AND PLANT IN MITIGATION AREA. PORTIONS OF THE WORK DESCRIBED AS PHASE 1 SHALL BE COMPLETED WITHIN THE TIMEFRAME SPECIFIED IN THE CONTRACT. SEE MITIGATION PLAN SHEET C-04.
 - b. PHASE 2: SURFERS BEACH ENHANCEMENT. CONSTRUCT BEACH USING SEDIMENT DREDGED FROM EAST BASIN 1B, 1C AND 2C AND MITIGATION DREDGE AREA. AFTER MITIGATION FILLS COMPLETE, DISTRICT WILL SALVAGE EEL GRASS FROM EAST BASIN DREDGE AREAS AND PLANT IN MITIGATION AREA. PORTIONS OF THE WORK DESCRIBED AS PHASE 2 SHALL BE COMPLETED WITHIN THE TIMEFRAME SPECIFIED IN THE CONTRACT. SEE SURFERS BEACH PLAN SHEETS C-08 AND C-09.
4. ESTIMATED DREDGE VOLUMES: DREDGE AND FILL VOLUMES ARE ESTIMATED IN TERMS OF MEAT UNITS IN PLACE IN THESE DRAWINGS. PERMITTED DREDGE QUANTITIES EXCEED THE MEAT LINE DREDGE AND FILL VOLUMES:
 - a. ESTIMATED DREDGE VOLUMES FOR PERMITS = 1.3 TIMES FILL VOLUMES
 - b. POTENTIAL DREDGE VOLUME IS GREATER THAN ESTIMATED DREDGE VOLUME
 - c. AREAS 1C AND THE MITIGATION DREDGE AREA MUST BE DREDGED TO THE PROJECT LIMITS WITHIN TOLERANCES. OTHER DREDGE AREAS MAY BE DREDGED TO THE EXTENT NEEDED TO CONSTRUCT FILL AREAS, WITHIN MAXIMUM UNITS WITHIN TOLERANCES.
 - d. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTIMATING ACTUAL DREDGE VOLUMES TO A CORRESPONDING QUANTITY USED FOR MEASUREMENT, PAYMENT AND ACCEPTANCE.
 - e. ENVIRONMENTAL CONDITIONS (WAVES, CURRENTS) ARE EXPECTED TO MOBILIZE SEDIMENT AFTER PLACEMENT. NO COMPENSATION WILL BE MADE FOR DREDGED MATERIAL THAT IS PLACED BEYOND THE DESIGNATED LIMITS OR MIGRATES AWAY FROM THE PLACEMENT AREAS.
 - f. CONSTRUCTION CONTRACTOR MAY CONSTRUCT TEMPORARY SAND BERMS TO LIMIT MIGRATION OF SAND DURING PLACEMENT. THE BERMS SHALL BE CONSTRUCTED OF SEDIMENT DREDGED FROM THE DREDGE AREAS. THE BERMS SHALL BE CONSTRUCTED TO THE SOUTH END OF SURFERS BEACH. THIS ALLOWED OVER-EXCAVATION SHALL BE BACKFILLED AND GRADED BY CONTRACTOR PRIOR TO ACCEPTANCE BY DISTRICT.
 - g. DISTRICT MAY REQUIRE CONSTRUCTION CONTRACTOR TO REMOVE SEDIMENT BEYOND TOLERANCES OF THE MITIGATION FILL AREA. DISTRICT ANTICIPATES THAT SOME SEDIMENT PLACED AT SURFERS BEACH WILL BE MOBILIZED BY OCEAN CURRENTS AND WAVES AND TRANSPORTED AWAY FROM THE PLACEMENT AREA DURING CONSTRUCTION.
 - h. THE CONSTRUCTION CONTRACTOR SHALL CONSIDER TO AVOID FINER SEDIMENTS DISCHARGED AT SURFERS BEACH BY MONITORING THE DREDGED SEDIMENT AND ADJUSTING DREDGE LOCATIONS ACCORDINGLY.
 - i. BE ROCK OUTCROPPERS AND LOOSE ROCKS PROTRUDE INTO THE MITIGATION DREDGE AREA AND THE SURFERS BEACH AREA. THE CONSTRUCTION CONTRACTOR SHALL AVOID DISTURBING ROCK TO THE EXTENT PRACTICABLE.
 - j. EXPORT OF DREDGED MATERIAL IS NOT ALLOWED UNLESS DESIGNATED AS DEBRIS BY THE DISTRICT.
 - k. IMPORT OF SEDIMENT IS NOT ALLOWED.
5. DREDGING AT THE ROCKET RAMP (AREA 1G) IS IN CLOSE PROXIMITY TO THE CONCRETE RAMP AND BOARDING FLOORS. THE CONSTRUCTION CONTRACTOR MAY "KNOCK DOWN" THE SEDIMENT TO DEEPER WATER THAT MORE ACCESSIBLE TO DREDGING PER SPECIFICATIONS AND PROJECT PERMITS.
6. MARINE NAVIGATION FOR VESSELS, INCLUDING MOORINGS, AND OTHER GOVERNMENT, COMMERCIAL, AND RECREATIONAL ACTIVITIES (E.G. EMERGENCY RESPONSE, SAILING INSTRUCTION, WIND SURFING, SWIMMING) SHALL NOT BE CONSTRAINED BY CONSTRUCTION CONTRACTOR EQUIPMENT AND OPERATIONS EXCEPT AS NEEDED FOR THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE DISTRICT AND APPROVAL BY THE COAST GUARD, WITH ADEQUATE NOTICE AND SAFETY PROTOCOLS (SEE SPECIFICATIONS AND PERMITS). PUBLIC ACCESS SHALL NOT BE ALLOWED IN ACTIVE WORK AREAS, BUT SUCH WORK AREAS SHALL NOT INTERFERE WITH NAVIGATION TO AND FROM THE HARBOR AND OPEN WATER.
7. PUBLIC ACCESS TO AND ALONG THE SHORE SHALL NOT BE CONSTRAINED BY THE CONSTRUCTION CONTRACTORS OPERATIONS EXCEPT AS NEEDED FOR SHORT PERIODS TO MOBILIZE AND MOVE EQUIPMENT AND ONLY TO THE EXTENT NECESSARY TO COMPLETE THE PROJECT. PUBLIC ACCESS SHALL NOT BE ALLOWED IN ACTIVE WORK AREAS, BUT SUCH WORK AREAS SHALL NOT PRECLUDE PEDESTRIAN ACCESS ALONG THE COASTAL TRAILS, TO AND ALONG THE BEACH, AND TO/FROM THE SURF. AN ANTICIPATED CORRIDOR FOR THE DREDGE PIPE HAS BEEN IDENTIFIED AND PERMITTED.
8. THE CONTRACTOR SHALL INSTALL A TEMPORARY PERIMETER FENCE AND BUOYS AROUND THE PERIMETER OF THE PROJECT TO PREVENT PUBLIC ACCESS TO THE CONSTRUCTION. THE CONTRACTOR SHALL ALSO PROVIDE NOTICES, SIGNS AND FLAG MEN TO INFORM THE PUBLIC OF THE CONSTRUCTION. THE CONTRACTOR SHALL ALSO PROVIDE CONTRACTOR ACCESS IS LIMITED TO THE ROUTES DESIGNATED IN THESE DRAWINGS AND AS DETAILED IN THE CONTRACTOR'S SUBMITTALS APPROVED BY THE DISTRICT (SEE SPECIFICATIONS).
9. THE PROJECT DOES NOT ENTAIL ANY DEMOLITION. ALL EXISTING FACILITIES IN THE WORK AREA SHALL BE PROTECTED IN PLACE, OR STORED AND PROTECTED AND REINSTALLED, FROM DAMAGE DUE TO CONTRACTOR'S OPERATIONS. ANY DAMAGES RESULTING FROM CONTRACTOR'S OPERATIONS SHALL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE DISTRICT WITHOUT COMPENSATION.
10. THE CONTRACTOR SHALL ENDEAVOR TO LIMIT TURBIDITY CAUSED BY ITS OPERATIONS IN COMPLIANCE WITH CONTRACT SPECIFICATIONS AND PERMITS.
11. THE CONTRACTOR SHALL ENDEAVOR TO LIMIT WIND-BLOWN SEDIMENT FROM THE SURFERS BEACH PLACEMENT AREA AS DETAILED BY THE DISTRICT.
12. IF DEBRIS IS ENCOUNTERED DURING DREDGING, SUCH DEBRIS SHALL BE STOCKPILED WITHIN THE PILLAR POINT HARBOR AREA AS DIRECTED BY THE DISTRICT.
13. CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT (USA) AT 1-800-272-2600 PRIOR TO START OF ANY CONSTRUCTION.
14. CONTRACTOR SHALL NOTIFY ALL PUBLIC OR PRIVATE UTILITY COMPANIES 48 HOURS PRIOR TO COMMENCEMENT OF WORK ADJACENT TO EXISTING UTILITY LINES.
15. CONTRACTOR SHALL NOTIFY CALTRANS AND SAN MATEO COUNTY PRIOR TO MOBILIZING AT SURFERS BEACH PER PROJECT PERMITS.

ABBREVIATIONS

AB	-AGGREGATE BASE
APPROX	-APPROXIMATE
CMP	-CORRUGATED METAL PIPE
DBH	-DIAMETER AT BREAST HEIGHT
DEMOL	-DEMOLITION
DG	-DESIGN GRADE
DI	-DIAMETER
DS	-DOWNSTREAM
(E)	-EXISTING
EG	-EXISTING GRADE
EL	-ELEVATION
FL	-FLOWLINE
FT	-FEET
GB	-GRADE BREAK
HOPE	-HIGH TIDE LINE: 7.2' NAVD
IE	-INVERT ELEVATION
IRR	-IRRIGATION
LR	-LINEAR FEET
MAX	-MAXIMUM
MH	-MANHOLE
MIN	-MINIMUM
MISC	-MISCELLANEOUS
(N)	-NEW
NC	-NOT IN CONTRACT
P.I.P.	-PROTECT IN PLACE
R.C.	-RELATIVE COMPACTION
RCP	-REINFORCED CONCRETE PIPE
RWG	-RECLAIMED WATER
SD	-STORM DRAIN LINE
SS	-SEWER PIPE LINE
TBD	-TO BE DETERMINED
TYP.	-TYPICAL
US	-UPSTREAM
VOP	-VERTIFIED CLAY PIPE
V.I.F.	-VERIFY IN FIELD
WIN	-WITHIN

LEGEND



ESTIMATED DREDGE VOLUMES

DREDGE AREA	AREA (AC)	VOLUME (CY)	FATE
DREDGE AREA 1A	2.7	29,800 (CUT)	SURFERS BEACH
DREDGE AREA 1B	2.8	18,100 (CUT)	MITIGATION FILL AREA
DREDGE AREA 1C	0.3	1,000 (CUT)	SURFERS BEACH
DREDGE AREA 2A	3.2	44,100 (CUT)	SURFERS BEACH
DREDGE AREA 2B	4.7	56,400 (CUT)	SURFERS BEACH
DREDGE AREA 2C	0.8	7,400 (CUT)	MITIGATION FILL AREA
MITIGATION DREDGE AREA	3.7	13,200 (CUT)	MITIGATION FILL AREA
MITIGATION FILL AREA	3.9	17,000 (FILL)	-
BEACH FILL AREA	4.8	59,000 (FILL)	-

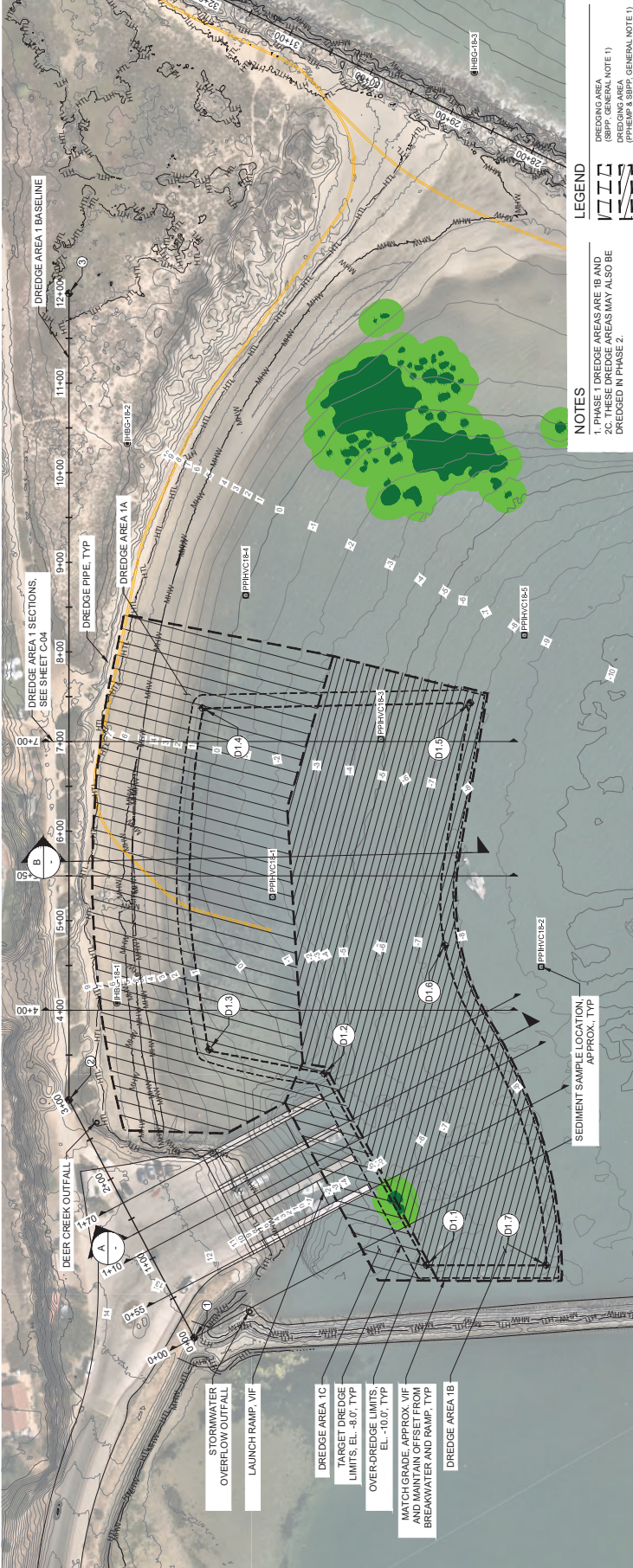
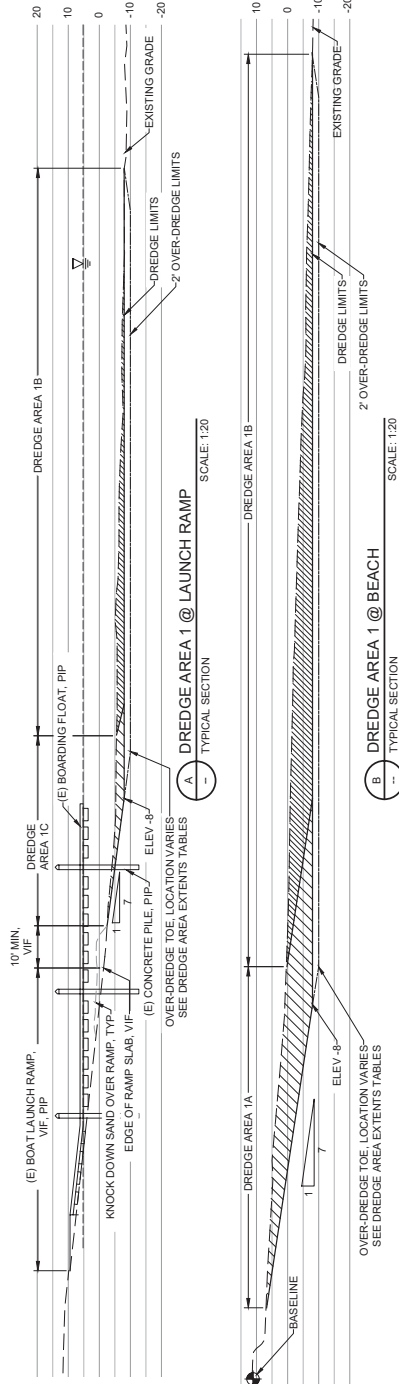
**PRELIMINARY
NOT FOR CONSTRUCTION**

BASELINE CONTROL POINT TABLE

NAME	NORTHING	EASTING	EXISTING GRADE ELEV., FT. NAVD
1	2011065.6073	5989031.0063	6.831
2	2011515.0781	5989251.2782	9.779
3	2011526.6669	5987951.5021	10.875

DREDGE AREA 1 EXTENTS

NAME	NORTHING	EASTING	EXISTING GRADE ELEV., FT. NAVD	OVER-DREDGE DESIGN GRADE ELEV., FT. NAVD
D1	2011146.1551	5987825.9117	-7.793	-10.000
D2	2011065.4888	5988191.1711	-7.673	-10.000
D3	2010905.9510	5988411.6290	-7.600	-10.000
D4	2011167.6199	5988555.6324	0.823	-10.000
D5	2011351.5302	5988221.9192	1.884	-10.000
D6	2011253.6498	5988134.5769	-2.732	-10.000
D7	2011281.7055	5987992.4658	-6.726	-10.000



LEGEND

- DREDGING AREA (SBPP, GENERAL NOTE 1)
- PROPOSED DREDGING PIPES (PHAS 1 & 2), GENERAL NOTE 1)
- DREDGING PIPELINE
- ELEGORUS BED
- POTENTIAL ELEGORASS HABITAT
- HIGH TIDE LINE 7.2' NAVD
- MEAN HIGH TIDE LINE 5.0' NAVD
- OVER-DREDGE LIMITS
- TARGET DREDGE LIMITS

NOTES

- PHASE 1 DREDGE AREAS ARE 1B AND 2C. THESE DREDGE AREAS MAY ALSO BE DREDGED IN PHASE 2.
- VOLUMES FOR DREDGE AREAS ARE ESTIMATED MAXIMUM AND GREATER THAN REQUIRED FOR MITIGATION AREA FILL. THESE VOLUMES SHOULD BE RESERVED FOR PHASE 2 SURFERS BEACH.

**PRELIMINARY
NOT FOR CONSTRUCTION**

1"=60'
Scale



**PRELIMINARY
NOT FOR
CONSTRUCTION**



SURFERS BEACH RESTORATION PROJECT PILOT

#	DATE	DESCRIPTION

DESIGNED L. WHITE
DRAWN S.S. M.A.
CHECKED L. WHITE
IN CHARGE L. WHITE
C76659

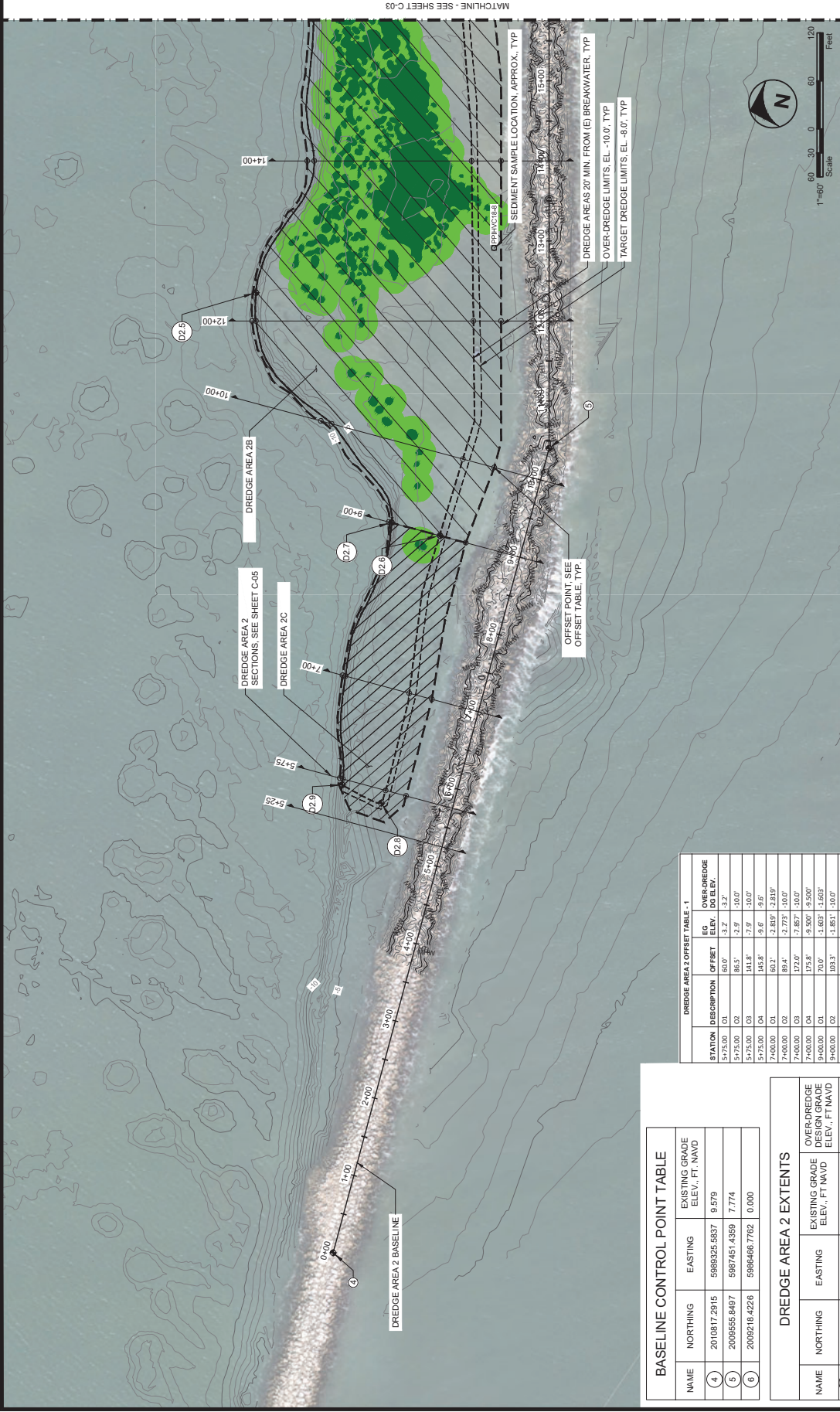
PROJECT NUMBER 180031.00
ISSUE DATE 05/17/23
SCALE AS SHOWN WHEN
PLOTTED TO FULL SIZE (22"x34")

PHASE FINAL DESIGN
SHEET TITLE EAST BASIN DREDGE AREA PLAN

SHEET NUMBER C-01
SHEET 04 OF 16



REVISIONS	#	DATE	DESCRIPTION
DESIGNED	L. WHITE		
DRAWN	S.S. I.M.A.		
CHECKED	L. WHITE		
IN CHARGE	L. WHITE		
	C7859		
PROJECT NUMBER	180631.00		
ISSUE DATE	05/17/23		
SCALE	AS SHOWN WHEN PLOTTED TO FULL SIZE (22"x34")		



LEGEND

- DREDGING AREA (SBPP, GENERAL NOTE 1)
- ELGRASS BED (PPHMP& SBPP, GENERAL NOTE 1)
- OVERDREDGE PIPELINE
- ELGRASS BED
- POTENTIAL ELGRASS HABITAT
- HIGH TIDE LINE 7.2 MWD
- MEAN HIGH TIDE LINE 5.0 MWD
- OVERDREDGE LIMITS
- TARGET DREDGE LIMITS

NOTES

- PHASE 1 DREDGE AREAS ARE 1B AND 1C. THESE DREDGE AREAS MAY ALSO BE DREDGED IN PHASE 2.
- VOLUMES FOR DREDGE AREAS ARE ESTIMATED MAXIMUM AND GREATER THAN ACTUAL VOLUMES. MAXIMUM VOLUME EXCESS DREDGE CAPACITY SHALL BE RESERVED FOR PHASE 2 SURFERS BEACH.
- SEE SHEET C-03 FOR TYPICAL DREDGE SECTION AT EAST BASIN BREAKWATER.

PRELIMINARY NOT FOR CONSTRUCTION

DREDGE AREA 2 OFFSET TABLE - 1

STATION	DESCRIPTION	OFFSET	10% OVER AVERAGE DOG ELEV.
5+75.00	01	60.0'	-3.2'
5+75.00	02	86.5'	-2.9'
5+75.00	03	141.8'	-7.9'
5+75.00	04	145.8'	-9.6'
7+00.00	01	60.2'	-2.839'
7+00.00	02	89.4'	-2.739'
7+00.00	03	172.0'	-7.857'
7+00.00	04	175.8'	-9.300'
9+00.00	01	70.0'	-1.093'
9+00.00	02	103.3'	-1.851'
9+00.00	03	155.8'	-7.893'
9+00.00	04	169.7'	-9.601'
10+00.00	01	60.0'	-1.889'
10+00.00	02	100.6'	-1.860'
10+00.00	03	276.4'	-8.265'
10+00.00	04	294.3'	-9.989'
12+00.00	01	60.0'	-1.889'
12+00.00	02	94.6'	-1.564'
12+00.00	03	386.4'	-7.789'
12+00.00	04	371.7'	-9.241'
14+00.00	01	60.1'	-0.971'
14+00.00	02	96.9'	-1.097'
14+00.00	03	295.3'	-8.031'
14+00.00	04	302.2'	-8.891'

BASELINE CONTROL POINT TABLE

NAME	NORTHING	EASTING	EXISTING GRADE ELEV., FT. NAVD
4	2010817.2915	5980325.5837	9.579
5	2009556.9497	5987451.4359	7.774
6	2009218.4228	5986466.7782	0.000

DREDGE AREA 2 EXTENTS

NAME	NORTHING	EASTING	EXISTING GRADE ELEV., FT. NAVD	OVER-DREDGE DESIGN GRADE ELEV., FT. NAVD
D2.1	2009535.5949	5986658.1133	-7.889	-10.000'
D2.2	2009482.2825	5986866.4270	-2.940	-10.000'
D2.3	2009667.0087	5987264.5669	-7.988	-10.000'
D2.4	2009607.8843	5987384.8203	-1.851	-10.000'
D2.5	2009988.4581	5987408.2901	-7.882	-10.000'
D2.6	2010240.6884	5987905.6987	-8.006	-10.000'
D2.7	2010072.2736	5988019.1914	0.854	-10.000'
D2.8	2010483.1305	5988416.5384	-7.864	-10.000'
D2.9	2010380.9450	5988445.8427	1.537	-10.000'



PRELIMINARY
NOT FOR
CONSTRUCTION



SAN MATEO COUNTY HARBOR DISTRICT
504 AVENUE ALHAMBRA, STE 200
P.O. BOX 1449, EL GRANADA, CA 94018

SURFERS BEACH RESTORATION PROJECT

PILOT

PROJECT NAME
DATE DESCRIPTION

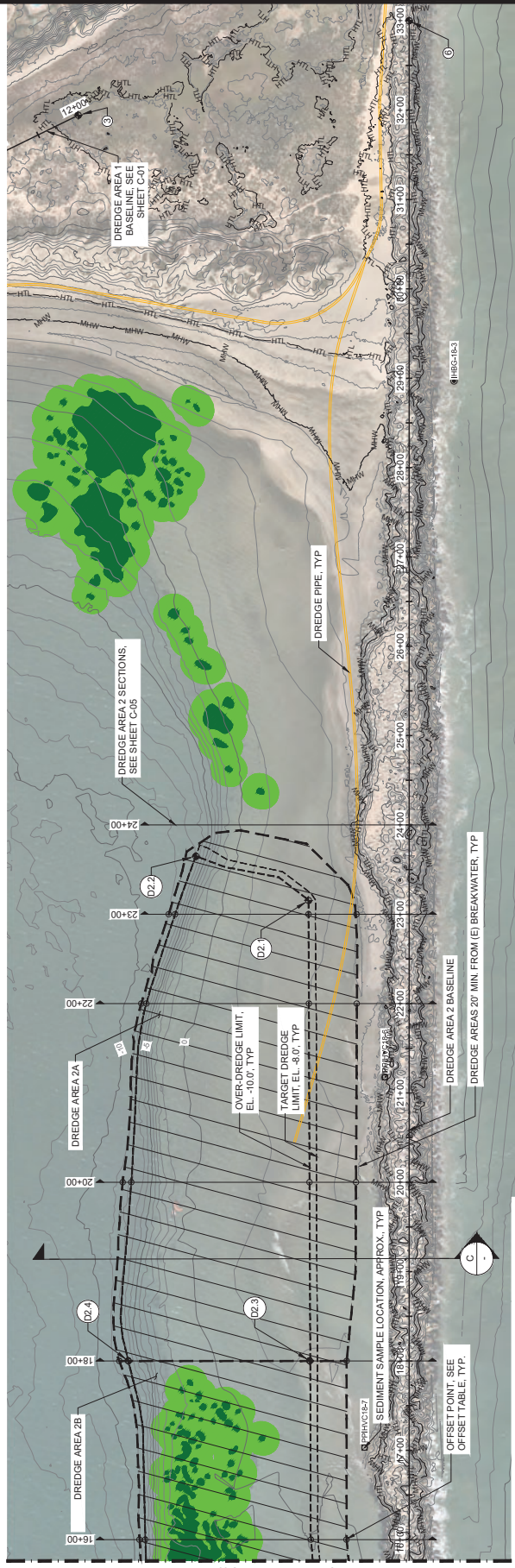
DESIGNED	L. WHITE
DRAWN	S.S. M.A.
CHECKED	L. WHITE
IN CHARGE	L. WHITE
PROJECT NUMBER	180631.00
ISSUE DATE	05/17/23
SCALE	AS SHOWN WHEN PLOTTED TO FULL SIZE (22"x34")

PHASE	FINAL DESIGN
SHEET TITLE	

EAST BASIN
DREDGE AREA PLAN
- 2B

SHEET NUMBER
C-03

SHEET 06 OF 16



NOTES

- PHASE 1 DREDGE AREAS ARE 1B AND 2C. THESE DREDGE AREAS MAY ALSO BE DREDGED IN PHASE 2.
- VOLUMES FOR DREDGE AREAS ARE ESTIMATED MAXIMUM AND GREATER THAN ESTIMATED MAXIMUM SHALL BE RESERVED FOR PHASE 2 SURFERS BEACH.

BASELINE CONTROL POINT TABLE

NAME	NORTHING	EASTING	EXISTING GRADE ELEV., FT. NAVD
4	2010817.2915	5989325.5937	9.579
5	2009555.9497	5987451.4359	7.774
6	2009218.4228	5986466.7782	0.000

DREDGE AREA 2 OFFSET TABLE 2

STATION	DESCRIPTION	OFFSET	EG ELEV.	OVER-DREDGE ELEV.
16+00.00	01	20.3'	52.2'	0.2'
16+00.00	02	110.0'	5.6'	-10.0'
16+00.00	03	285.4'	8.0'	-10.0'
16+00.00	04	301.9'	9.3'	-8.3'
18+00.00	01	70.0'	0.0'	0.0'
18+00.00	02	111.4'	0.9'	-10.0'
18+00.00	03	314.4'	8.0'	-10.0'
18+00.00	04	324.5'	8.8'	-8.8'
20+00.00	01	99.5'	2.3'	2.3'
20+00.00	02	111.5'	1.4'	-10.0'
20+00.00	03	311.1'	8.0'	-10.0'
20+00.00	04	320.7'	8.5'	-8.5'
22+00.00	01	58.7'	3.0'	3.0'
22+00.00	02	112.3'	2.0'	-10.0'
22+00.00	03	284.2'	8.2'	-10.0'
22+00.00	04	299.9'	9.3'	-9.3'
23+00.00	01	99.0'	3.0'	3.0'
23+00.00	02	112.6'	1.6'	-10.0'
23+00.00	03	282.0'	8.5'	-10.0'
23+00.00	04	289.2'	9.0'	-9.0'

DREDGE AREA 2 EXTENTS

NAME	NORTHING	EASTING	EXISTING GRADE ELEV., FT. NAVD	OVER-DREDGE DESIGN GRADE ELEV., FT. NAVD
D2.1	2009535.9449	5986958.1133	-7.889	-10.000'
D2.2	2009462.2625	5986866.4270	-2.940	-10.000'
D2.3	2009667.0087	5987284.5669	-7.988	-10.000'
D2.4	2009607.8843	5987284.8203	-1.851	-10.000'
D2.5	2009988.4581	5987408.2901	-7.882	-10.000'
D2.6	2010240.8884	5987905.6887	-8.006	-10.000'
D2.7	2010072.2736	5988019.1914	0.854	-10.000'
D2.8	2010483.1305	5988416.5594	-7.884	-10.000'
D2.9	2010380.9450	5988445.8427	1.537	-10.000'

PRELIMINARY NOT FOR CONSTRUCTION



PRELIMINARY
NOT FOR
CONSTRUCTION



SURFERS BEACH
RESTORATION PROJECT
PILOT

504 AVENUE ALHAMBRA, STE 200
SAN MATEO COUNTY HARBOR DISTRICT
P.O. BOX 1449, EL GRANADA, CA 94018

#	DATE	DESCRIPTION

DESIGNED L. WHITE
DRAWN S.S. M.A.
CHECKED L. WHITE
IN CHARGE L. WHITE
C78599

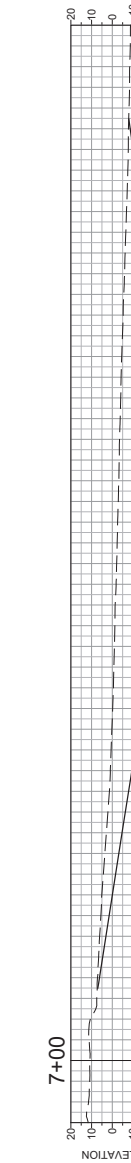
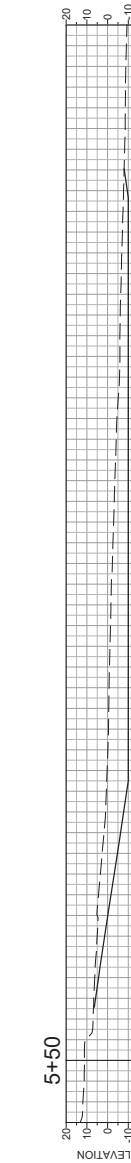
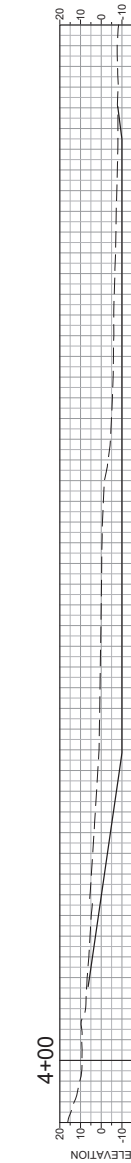
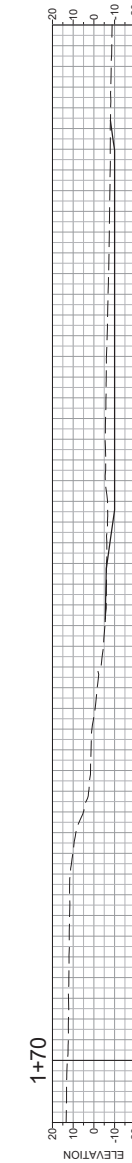
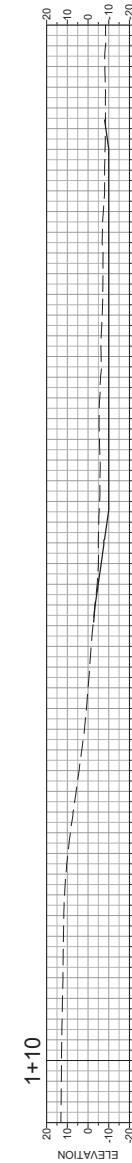
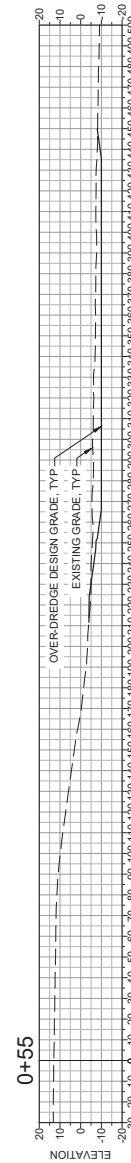
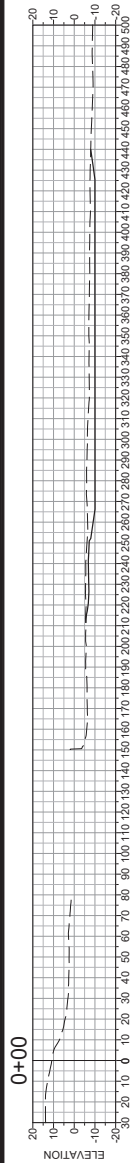
PROJECT NUMBER 180631.00
ISSUE DATE 05/17/23
SCALE AS SHOWN WHEN
PLOTTED TO FULL SIZE (22"x47")

PHASE
FINAL DESIGN

SHEET TITLE

EAST BASIN
DREDGE AREA 1
SECTIONS

SHEET NUMBER
C-04
SHEET 07 OF 16



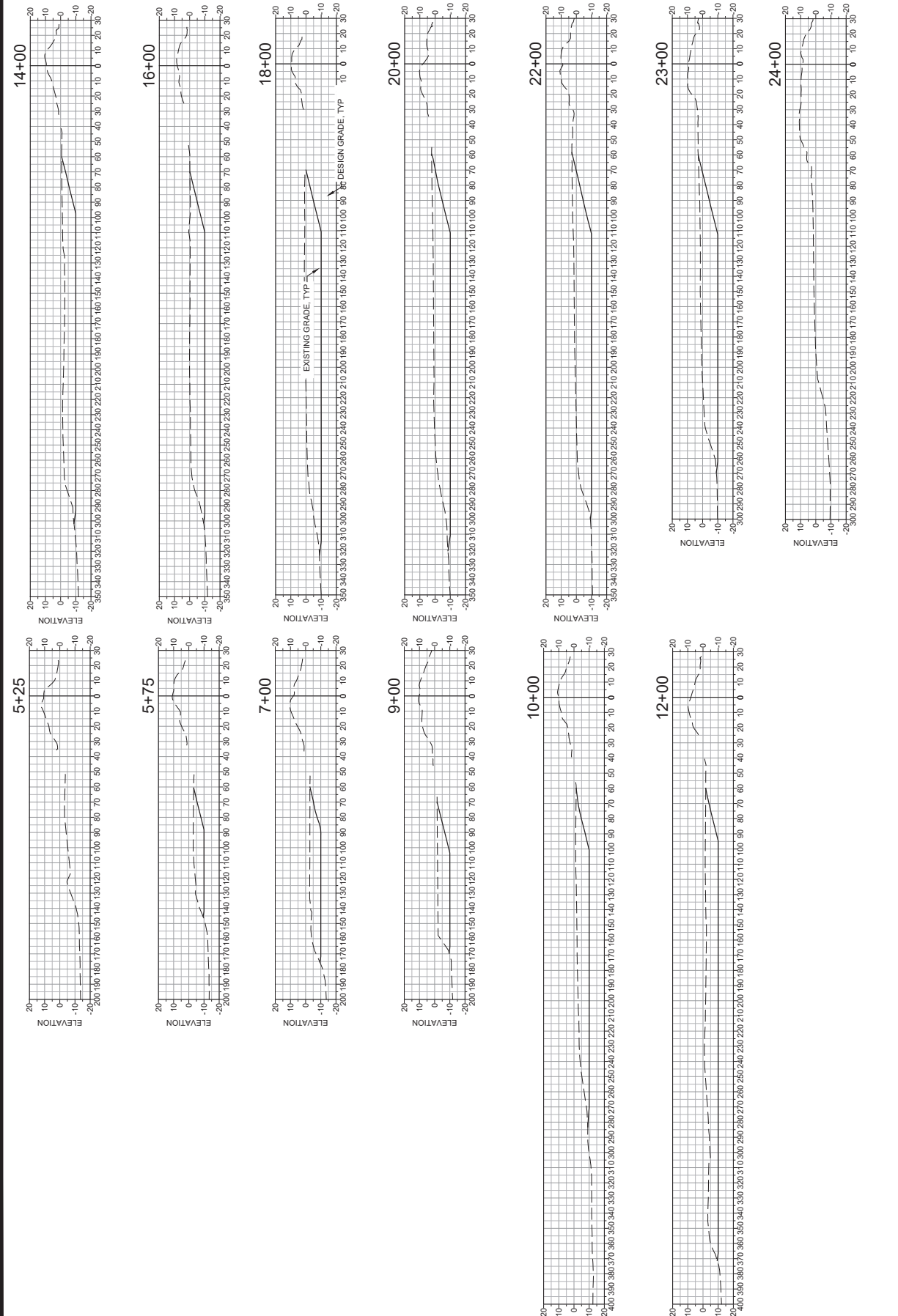
PRELIMINARY
NOT FOR CONSTRUCTION

DREDGE AREA 1 - SECTIONS
SECTION

SCALE: 1:30

NOTES





FSA
 57 MARKET STREET
 SAN FRANCISCO, CA 94105
 WWW.FSAEAS.COM

PRELIMINARY
 NOT FOR
 CONSTRUCTION



**SURFERS BEACH
 RESTORATION PROJECT
 PILOT**

PROJECT NAME
 SAN MATEO COUNTY HARBOR DISTRICT
 504 AVENUE ALHAMBRA, STE 200
 P.O. BOX 1449, EL GRANADA, CA 94018

REVISIONS

#	DATE	DESCRIPTION

DESIGNED L. WHITE
 DRAWN S.S. M.A.
 CHECKED L. WHITE
 IN CHARGE L. WHITE
 C78699

PROJECT NUMBER 180631.00
 ISSUE DATE 05/17/23
 SCALE AS SHOWN WHEN
 PLOTTED TO FULL SIZE (22"x47")

PHASE
 FINAL DESIGN

SHEET TITLE
 EAST BASIN
 DREDGE AREA 2
 SECTIONS

SHEET NUMBER
C-05
 SHEET 08 OF 16

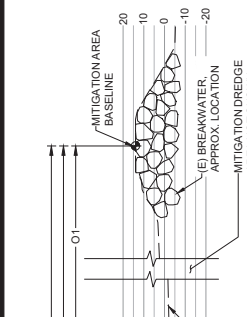
**PRELIMINARY
 NOT FOR CONSTRUCTION**

DREDGE AREA 2 - SECTIONS
 SECTION
 SCALE: 1:30

NOTES



FILE: P:\01 CAD\180631\05180631_00 - Surfers Beach Pilot Project\DWG\EST BASIN DREDGE AREA.dwg PLOT DATE: 5/17/2023 12:40:29 PM PLOTTED BY: MARIO ACCORRINO



SCALE: 1:30
 D MITIGATION PLACEMENT AREA
 ACCEPTABLE TOLERANCE: ±0.5'

BASELINE CONTROL POINT TABLE

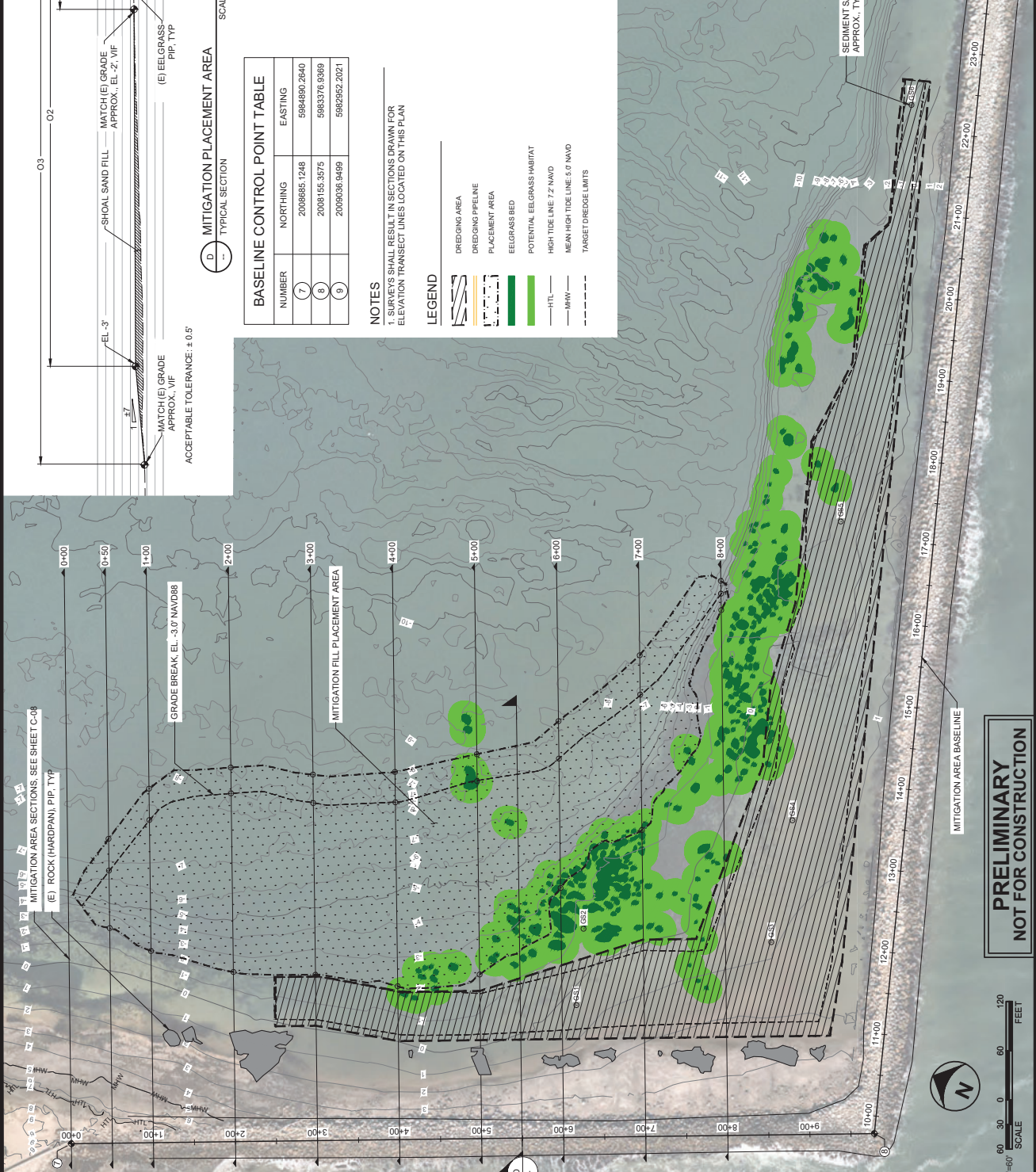
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6	2008155.3575	5883376.9369
9	2009036.9499	5882952.2021

MITIGATION PLACEMENT AREA OFFSET TABLE

STATION	DESCRIPTION	OFFSET	EG ELEV.	D6 ELEV.
D+50.00	01	282.2'	-2.1'	-2.0'
D+50.00	02	332.4'	-6.5'	-3.0'
D+50.00	03	371.1'	-7.6'	-7.6'
H+00.00	01	233.6'	-2.0'	-2.0'
H+00.00	02	393.3'	-6.9'	-3.0'
H+00.00	03	431.5'	-7.3'	-7.3'
H+00.00	01	206.8'	-2.0'	-2.0'
H+00.00	02	424.5'	-8.1'	-3.0'
H+00.00	03	458.0'	-7.9'	-7.9'
H+00.00	01	202.2'	-2.1'	-2.1'
H+00.00	02	411.5'	-8.2'	-3.0'
H+00.00	03	466.1'	-6.8'	-6.8'
H+00.00	01	431.1'	-6.0'	-3.0'
H+00.00	02	448.3'	-8.3'	-8.3'
H+00.00	03	399.9'	-2.0'	-2.0'
H+00.00	02	435.2'	-7.8'	-3.0'
H+00.00	03	468.5'	-7.3'	-7.3'
H+00.00	01	394.1'	-2.0'	-2.0'
H+00.00	02	481.8'	-7.5'	-3.0'
H+00.00	03	507.6'	-7.4'	-7.4'
H+00.00	01	373.8'	-2.0'	-2.0'
H+00.00	02	538.6'	-6.9'	-3.0'
H+00.00	03	586.5'	-8.2'	-8.2'
H+00.00	01	640.4'	-2.0'	-2.0'
H+00.00	02	660.3'	-4.3'	-3.0'
H+00.00	03	675.9'	-6.0'	-6.0'

NOTES
 1. SURVEYS SHALL RESULT IN SECTIONS DRAWN FOR ELEVATION TRANSECT LINES LOCATED ON THIS PLAN

- LEGEND**
- DREDGING AREA
 - DREDGING PIPELINE PLACEMENT AREA
 - EELGRASS BED
 - POTENTIAL EELGRASS HABITAT
 - HIL
 - HIGH TIDE LINE 7.2' NAVD
 - MEAN HIGH TIDE LINE 5.0' NAVD
 - MHW
 - TARGET DREDGE LIMITS



PRELIMINARY NOT FOR CONSTRUCTION

PRELIMINARY
 NOT FOR
 CONSTRUCTION



**SURFERS BEACH
 RESTORATION PROJECT**
 PILOT

SAN MATEO COUNTY HARBOR DISTRICT
 504 AVENUE ALHAMBRA, STE 200
 P.O. BOX 1449, EL GRANADA, CA 94018

PROJECT NAME

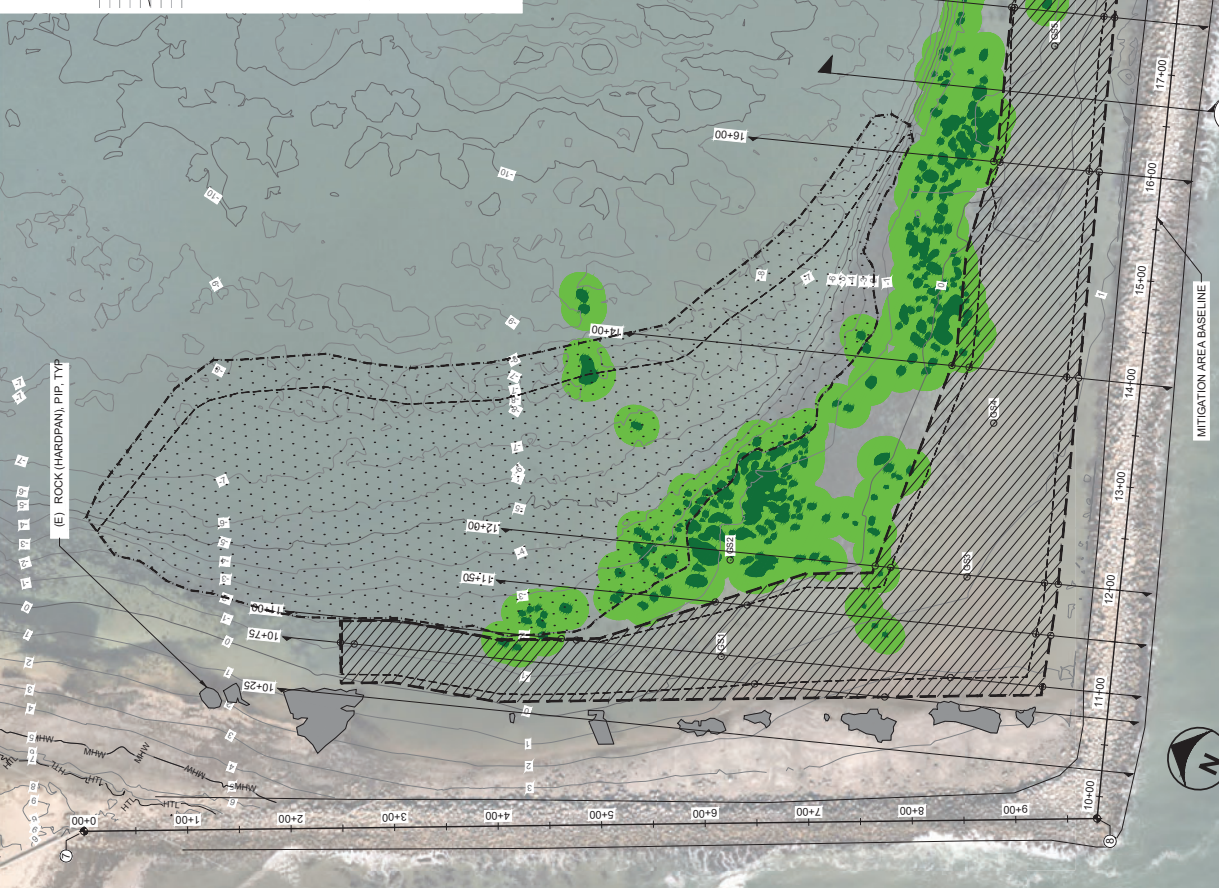
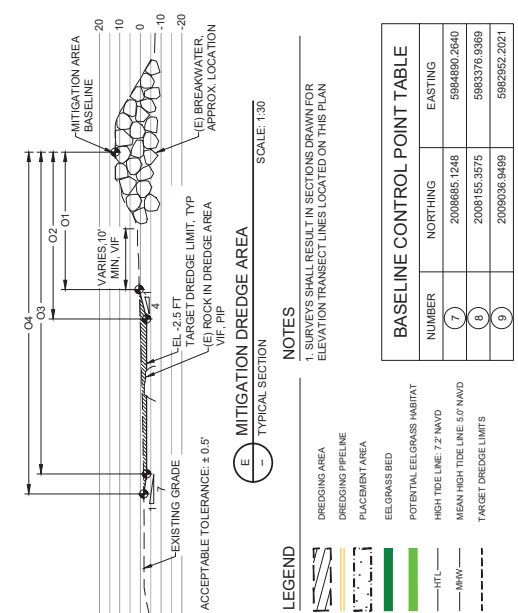
#	DATE	DESCRIPTION

DESIGNED	L. WHITE
DRAWN	S.S. M.A.
CHECKED	L. WHITE
IN CHARGE	L. WHITE
PROJECT NUMBER	C78659
ISSUE DATE	05/17/23
SCALE	AS SHOWN/WHEN PLOTTED TO FULL SIZE (22"x44")

PHASE	
FINAL DESIGN	SHEET TITLE
PHASE 1 EELGRASS MITIGATION AREA PLAN - 2	

SHEET NUMBER
C-07
 SHEET 10 OF 16

SECTION DESCRIPTION	OFFSET	DES. ELEV.	AS-BUILT ELEV.
10+50.00 02	240.2'	3.7'	3.7'
10+50.00 03	240.2'	1.7'	3.5'
10+50.00 04	240.2'	1.7'	3.5'
11+00.00 01	240.2'	1.7'	3.5'
11+00.00 02	240.2'	1.7'	3.5'
11+00.00 03	240.2'	1.7'	3.5'
11+00.00 04	240.2'	1.7'	3.5'
12+00.00 01	240.2'	1.7'	3.5'
12+00.00 02	240.2'	1.7'	3.5'
12+00.00 03	240.2'	1.7'	3.5'
12+00.00 04	240.2'	1.7'	3.5'
13+00.00 01	240.2'	1.7'	3.5'
13+00.00 02	240.2'	1.7'	3.5'
13+00.00 03	240.2'	1.7'	3.5'
13+00.00 04	240.2'	1.7'	3.5'
14+00.00 01	240.2'	1.7'	3.5'
14+00.00 02	240.2'	1.7'	3.5'
14+00.00 03	240.2'	1.7'	3.5'
14+00.00 04	240.2'	1.7'	3.5'
15+00.00 01	240.2'	1.7'	3.5'
15+00.00 02	240.2'	1.7'	3.5'
15+00.00 03	240.2'	1.7'	3.5'
15+00.00 04	240.2'	1.7'	3.5'
16+00.00 01	240.2'	1.7'	3.5'
16+00.00 02	240.2'	1.7'	3.5'
16+00.00 03	240.2'	1.7'	3.5'
16+00.00 04	240.2'	1.7'	3.5'
17+00.00 01	240.2'	1.7'	3.5'
17+00.00 02	240.2'	1.7'	3.5'
17+00.00 03	240.2'	1.7'	3.5'
17+00.00 04	240.2'	1.7'	3.5'
18+00.00 01	240.2'	1.7'	3.5'
18+00.00 02	240.2'	1.7'	3.5'
18+00.00 03	240.2'	1.7'	3.5'
18+00.00 04	240.2'	1.7'	3.5'
19+00.00 01	240.2'	1.7'	3.5'
19+00.00 02	240.2'	1.7'	3.5'
19+00.00 03	240.2'	1.7'	3.5'
19+00.00 04	240.2'	1.7'	3.5'
20+00.00 01	240.2'	1.7'	3.5'
20+00.00 02	240.2'	1.7'	3.5'
20+00.00 03	240.2'	1.7'	3.5'
20+00.00 04	240.2'	1.7'	3.5'
21+00.00 01	240.2'	1.7'	3.5'
21+00.00 02	240.2'	1.7'	3.5'
21+00.00 03	240.2'	1.7'	3.5'
21+00.00 04	240.2'	1.7'	3.5'
22+00.00 01	240.2'	1.7'	3.5'
22+00.00 02	240.2'	1.7'	3.5'
22+00.00 03	240.2'	1.7'	3.5'
22+00.00 04	240.2'	1.7'	3.5'
23+00.00 01	240.2'	1.7'	3.5'
23+00.00 02	240.2'	1.7'	3.5'
23+00.00 03	240.2'	1.7'	3.5'
23+00.00 04	240.2'	1.7'	3.5'
24+00.00 01	240.2'	1.7'	3.5'
24+00.00 02	240.2'	1.7'	3.5'
24+00.00 03	240.2'	1.7'	3.5'
24+00.00 04	240.2'	1.7'	3.5'
25+00.00 01	240.2'	1.7'	3.5'
25+00.00 02	240.2'	1.7'	3.5'
25+00.00 03	240.2'	1.7'	3.5'
25+00.00 04	240.2'	1.7'	3.5'



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574 MARINE STREET
SAN FRANCISCO, CA 94105
415.774.2989
WWW.FSASOC.COM

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CONSTRUCTION



RESTORATION PROJECT
SURFERS BEACH
PILOT
SAN MATEO COUNTY HARBOR DISTRICT
504 AVENUE ALHAMBRA, STE 200
P.O. BOX 1449, EL GRANADA, CA 94018

PROJECT NAME

REVISIONS	#	DATE	DESCRIPTION

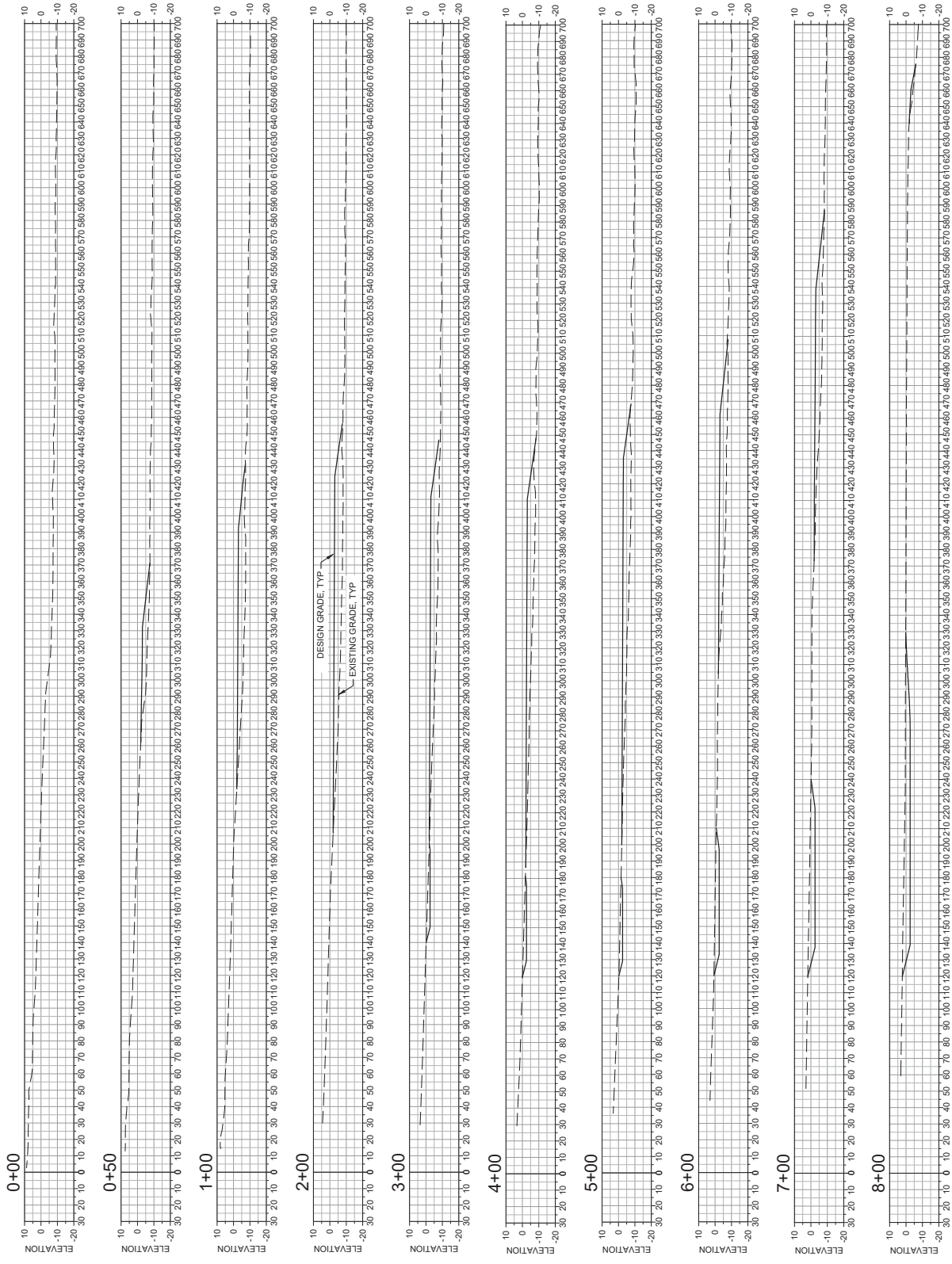
DESIGNED L. WHITE
 DRAWN S.S. M.A.
 CHECKED L. WHITE
 IN CHARGE L. WHITE
 C78599
 PROJECT NUMBER 180631.00
 ISSUE DATE 05/17/23
 SCALE AS SHOWN WHEN
 PLOTTED TO FULL SIZE (22"x34")

PHASE FINAL DESIGN
 SHEET TITLE

PHASE 1 EELGRASS
 MITIGATION AREA
 SECTIONS - 1

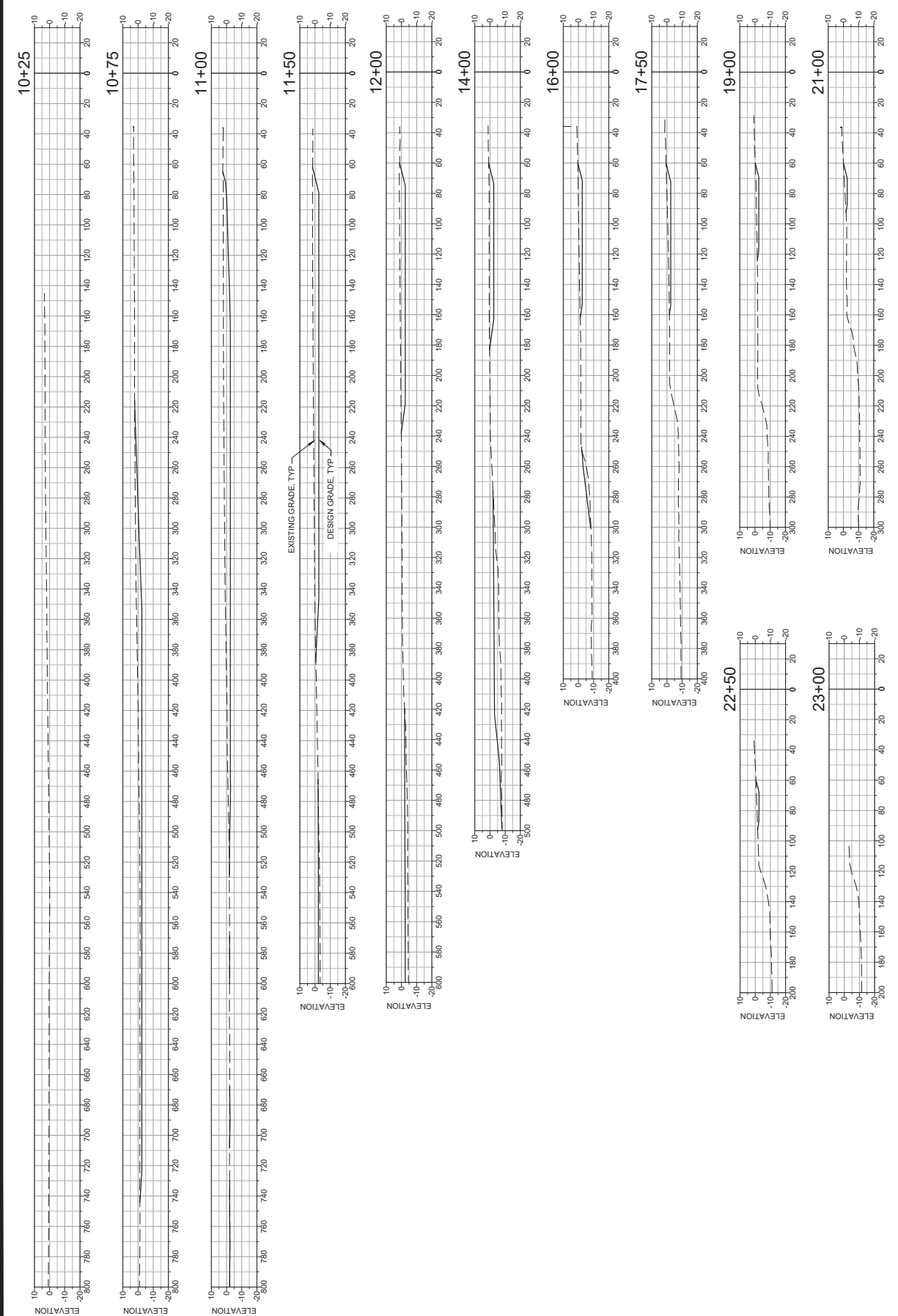
SHEET NUMBER
C-08
 SHEET 11 OF 16

**PRELIMINARY
 NOT FOR CONSTRUCTION**



EELGRASS MITIGATION - SECTIONS
 SECTION SCALE: 1:30

NOTES
 1"=30'
 SCALE 0 30 60 FEET



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 57 MARKET STREET
 SAN FRANCISCO, CA 94105
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 PRELIMINARY
 NOT FOR CONSTRUCTION



SURFERS BEACH RESTORATION PROJECT
 PILOT

PROJECT NAME
 SAN MATEO COUNTY HARBOR DISTRICT
 504 AVENUE ALHAMBRA, STE 200
 P.O. BOX 1449, EL GRANADA, CA 94018

REVISIONS

#	DATE	DESCRIPTION

DESIGNED L. WHITE
 DRAWN S.S. M.A.
 CHECKED L. WHITE
 IN CHARGE L. WHITE
 C78599

PROJECT NUMBER 180631.00
 ISSUE DATE 05/17/23

SCALE: AS SHOWN WHEN PLOTTED TO FULL SIZE (22"x34")

PHASE
 FINAL DESIGN

SHEET TITLE

PHASE 1 EELGRASS MITIGATION AREA
 SECTIONS - 2

SHEET NUMBER
C-09

SHEET 12 OF 16

PRELIMINARY NOT FOR CONSTRUCTION

EELGRASS MITIGATION - SECTIONS SECTION SCALE: 1:30

NOTES
 1"=30'
 SCALE
 0 15 30 60 FEET



PROJECT NAME

#	DATE	DESCRIPTION

DESIGNED	L. WHITE
DRAWN	S.S. M.A.
CHECKED	L. WHITE
IN CHARGE	L. WHITE
PROJECT NUMBER	180631.00
ISSUE DATE	05/17/23

SCALE AS SHOWN WHEN PLOTTED TO FULL SIZE (22"x34")

PHASE FINAL DESIGN

SHEET TITLE

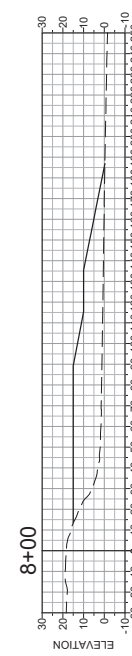
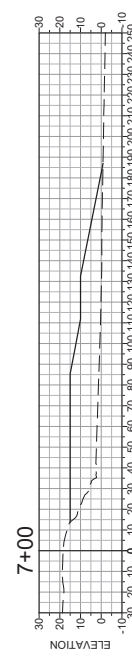
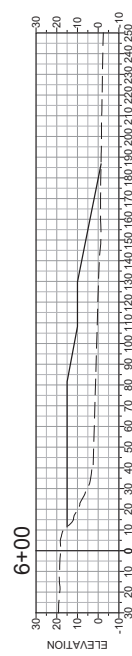
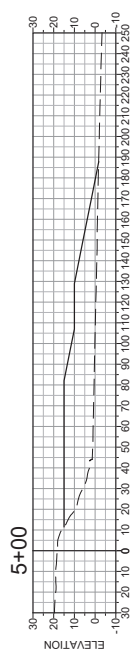
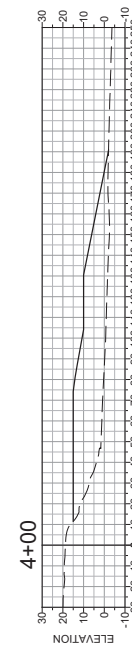
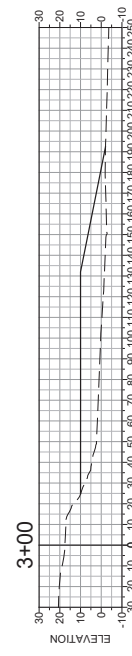
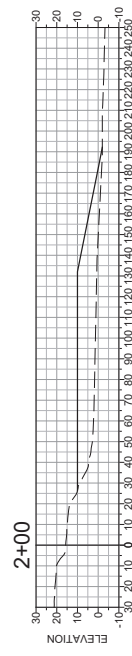
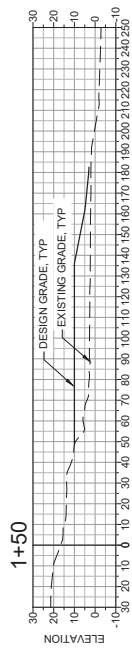
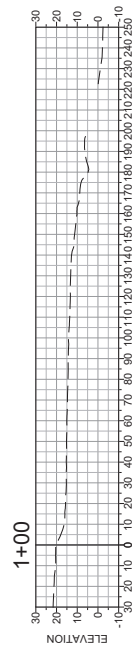
PHASE 2 SURFERS BEACH FILL AREA SECTIONS - 1

SHEET NUMBER

C-12

SHEET 15 OF 16

PRELIMINARY NOT FOR CONSTRUCTION



NOTES

SURFERS BEACH - SECTIONS

SECTION SCALE: 1:30





573 MARKET STREET
SAN FRANCISCO, CA 94105
TEL: 415.774.2500
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CONSTRUCTION



**SURFERS BEACH
RESTORATION PROJECT
PILOT**

SAN MATEO COUNTY HARBOR DISTRICT
P.O. BOX 1449, EL GRANADA, CA 94018

PROJECT NAME

REVISIONS	DATE	DESCRIPTION
#		

DESIGNED	L. WHITE
DRAWN	S.S. M.A.
CHECKED	L. WHITE
IN CHARGE	L. WHITE
	C78659

PROJECT NUMBER 180631.00
ISSUE DATE 05/17/23

SCALE: AS SHOWN WHEN
PLOTTED TO FULL SIZE (22"x34")

PHASE
FINAL DESIGN

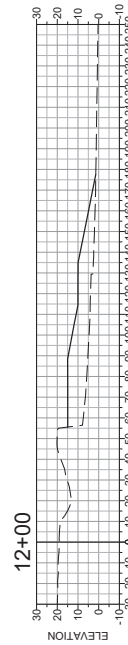
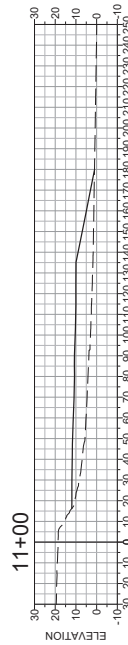
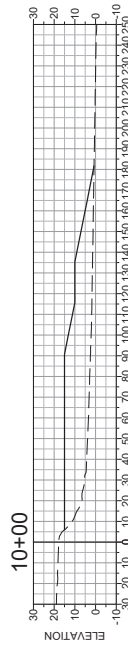
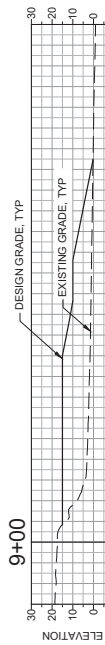
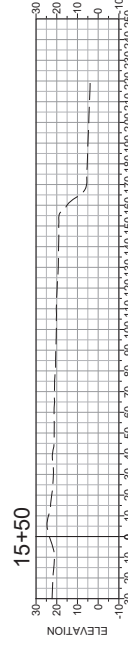
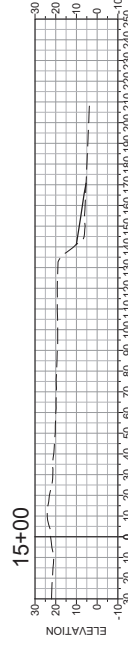
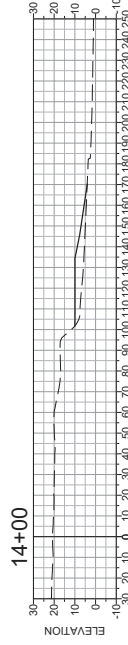
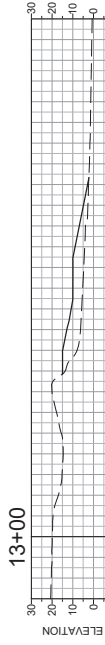
SHEET TITLE

PHASE 2 SURFERS
BEACH FILL AREA
SECTIONS - 2

SHEET NUMBER

C-13

SHEET 16 OF 16



**PRELIMINARY
NOT FOR CONSTRUCTION**

SURFERS BEACH - SECTIONS
SECTION

SCALE: 1:30

NOTES



PROJECT STATUS

Please use the forms below to report the dates when you start and finish the work authorized by the enclosed permit. Also, if you suspend work for an extended period of time, use the forms below to report the dates you suspended and resumed work. If you find that you cannot complete the work within the time granted by the permit, please apply for a time extension at least one month before your permit expires. If you materially change the plan or scope of the work, it will be necessary for you to submit new drawings and a request for a modification of your permit.

(cut as needed) -----

Date: _____

NOTICE OF COMPLETION OF WORK under Department of the Army Permit Number SPN-2012-00207 Pillar Point Harbor Maintenance Dredging, Episode _____

TO: District Engineer, US Army Corps of Engineers, Operations and Readiness Division, 450 Golden Gate Avenue, San Francisco, CA 94102-3404

In compliance with the conditions of Permit Number SPN-2012-00207, this is to notify you that work was completed on _____.

Permittee: San Mateo County Harbor District
Address: 504 Ave Alhambra, El Granada, California 94018

(cut as needed) -----

Date: _____

NOTICE OF RESUMPTION OF WORK under Department of the Army Permit Number SPN-2012-00207 Pillar Point Harbor Maintenance Dredging, Episode _____

TO: District Engineer, US Army Corps of Engineers, Operations and Readiness Division, 450 Golden Gate Avenue, San Francisco, CA 94102-3404

In compliance with the conditions of Permit Number SPN-2012-00207, this is to notify you that work was resumed on _____.

Permittee: San Mateo County Harbor District
Address: 504 Ave Alhambra, El Granada, California 94018

(cut as needed) -----

Date: _____

NOTICE OF SUSPENSION OF WORK under Department of the Army Permit Number SPN-2012-00207 Pillar Point Harbor Maintenance Dredging, Episode _____

TO: District Engineer, US Army Corps of Engineers, Operations and Readiness Division, 450 Golden Gate Avenue, San Francisco, CA 94102-3404

In compliance with the conditions of Permit Number SPN-2012-00207, this is to notify you that work was suspended on _____.

Permittee: San Mateo County Harbor District
Address: 504 Ave Alhambra, El Granada, California 94018

(cut as needed) -----

Date: _____

NOTICE OF COMMENCEMENT OF WORK under Department of the Army Permit Number SPN-2012-00207 Pillar Point Harbor Maintenance Dredging, Episode _____

TO: District Engineer, US Army Corps of Engineers, Operations and Readiness Division, 450 Golden Gate Avenue, San Francisco, CA 94102-3404

In compliance with the conditions of Permit Number SPN-2012-00207, this is to notify you that work commenced on _____.

Permittee: San Mateo County Harbor District
Address: 504 Ave Alhambra, El Granada, California 94018