



**US Army Corps
of Engineers®**

New England District

Maine Project Office

442 Civic Center Drive, Suite 350

Augusta, Maine 04330

PUBLIC NOTICE

Comment Period Begins: 23 June 2020

Comment Period Ends: 23 July 2020 In

Reply Refer To: Colin M. Greenan E-mail:

colin.m.greenan@usace.army.mil

Permit Number NAE-2020-00214

The District Engineer has received a permit application to conduct work in waters of the United States from the Portland Harbor Commission, 2 Portland Fish Pier, Suite 105, Portland, Maine 04101. This work is proposed in Portland Harbor (Fore River) at both Portland and South Portland, Maine. The work proposed is at multiple sites located on the USGS PORTLAND WEST and PORTLAND EAST, ME quadrangle sheets.

The work involves the dredging of accumulated sediment at 47 separate waterfront sites including 21 piers, 10 marinas, a public boat launch, and a commercial barge landing. The cumulative dredge volume including a 1-foot allowable over-dredge is approximately 244,678 cubic yards over approximately 46.8 acres. Dredge sites have been designed with 3:1 side slopes to minimize sloughing and erosion. Dredging is expected to be done using barge-mounted mechanical equipment. Dredged material will be placed in a hopper barge or dump scow for transport and disposal. The dredging events are expected to take place for at least five seasons and between November 1st and March 15th of any year.

Dredged material generated from the work is proposed for the yet to be constructed Portland Harbor confined aquatic discharge (CAD) cell located at latitude 43.645931°N; and longitude -70.251492°W (Corps file number NAE-2017-01950).

Two of the 47 dredge sites will directly affect mapped eelgrass beds. The two sites are at Port Harbor Marine at South Portland and the East End Beach Barge Landing at Portland. To compensate for the unavoidable impacts to approximately 1.2 acre of eelgrass, the applicant is proposing to restore approximately 2.5 acres of eelgrass within Portland Harbor and Casco Bay by removing existing moorings from eelgrass and converting mooring tackle to conservation moorings. Compensation will be implemented before any dredging of eelgrass begins. In the event that the full 2.5 acres of eelgrass is not restored, the applicant has proposed a prorated purchase of credits from the Maine Natural Resource Conservation Fund (Maine's In-Lieu-Fee program). The applicant is proposing these measures seeking to lessen the project's impact on aquatic resources. This notice solicits comments on these proposed measures from the interested or affected public as well as those agencies who speak to the public interest. It also solicits recommendations for alternative sites or measures not yet identified by the applicant. After receipt of the comments, the Corps of Engineers will obtain any necessary additional information from the applicant and determine whether the proposed measures are practicable and serve to help compensate for this project's unavoidable impacts.

This work is shown on the attached plans entitled "Portland Harbor Commission Portland Harbor Waterfront Dredging" in 4 sheets undated and 28 sheets dated "2019.11.13" and "2020-03-24" respectively.

AUTHORITY:

A Corps of Engineers Permit is required pursuant to:

<u>X</u>	Section 10 of the Rivers and Harbors Act of 1899
<u>X</u>	Section 404 of the Clean Water Act
	Section 103 of the Marine Protection, Research and Sanctuaries Act.
<u>X</u>	Section 14 of the Rivers and Harbors Act of 1899 (33 USC 408)

The decision whether to issue a permit will be based on an evaluation of the probable impact 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 may reasonably 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, cultural value, fish and wildlife values, flood hazards, flood plain value, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food production and, in general, the needs and welfare of the people.

The U.S. Army Corps of Engineers, New England District (Corps), is soliciting comments from the public; Federal, state, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. The Corps will consider all comments received 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. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

Where the activity involves the discharge of dredged or fill material into waters of the United States or the transportation of dredged material for the purpose of disposing it in ocean waters, the evaluation of the impact of the activity in the public interest will also include application of the guidelines promulgated by the Administrator, U.S Environmental Protection Agency, under authority of Section 404(b) of the Clean Water Act, and/or Section 103 of the Marine Protection Research and Sanctuaries Act of 1972, as amended.

The alternatives considered in the dredged material disposal analysis fall into four general categories: beneficial use, upland disposal, confined disposal, and open-water disposal. The feasibility of disposal alternatives was analyzed relative to the physical and chemical quality of samples of the anticipated dredged material, the volume of material to be dredged, the availability of suitable disposal and beneficial use sites, and the cost of disposal. Analysis of sample sediments proposed for dredging were found to be unsuitable for open water disposal as they contain contaminants likely resulting from historic industrial activity and stormwater runoff from within the harbor.

Based on the physical and chemical characteristics of samples of the anticipated dredged material, the lack of suitable alternate disposal or beneficial use sites and costs, the most feasible, practical, cost-effective and environmentally acceptable alternative for the disposal of dredged materials generated from the proposed dredging is disposal at the requested, yet to be constructed Portland Harbor CAD Cell. The District Engineer has made the preliminary determination that the material is acceptable for disposal at this disposal site.

Any permit issued for this project will likely include special conditions requiring the hopper barges or dump scows to come to a complete stop when disposing of the material at the disposal site. There will also likely be a

time of year restriction included as a special condition which prohibits dredging during ecologically sensitive times of years.

MAGNUSON-STEVENSON FISHERY CONSERVATION AND MANAGEMENT ACT (ESSENTIAL FISH HABITAT): The Magnuson-Stevens Fishery Conservation and Management Act, as amended by the Sustainable Fisheries Act of 1996 (Public Law 104-267), requires all federal agencies to consult with the National Marine Fisheries Service on all actions, or proposed actions, permitted, funded, or undertaken by the agency, that may adversely affect Essential Fish Habitat (“EFH”). Essential Fish Habitat describes waters and substrate necessary for fish for spawning, breeding, feeding or growth to maturity.

The dredging portion of this project will impact approximately 46.8 acres of EFH. Substrate at these working waterfront sites is described as sandy silts to silty sands with some areas of exposed marine clay. It is common for the substrate in and around the harbor’s working waterfronts to also include cobble, concrete and brick debris, pile and timber remnants, and assorted marine debris reflective of over 300 years of marine activity. In addition, approximately 1.2 acre of eelgrass will be impacted. The disposal of dredged material is proposed for the yet to be constructed Portland Harbor CAD Cell which also provides EFH. The proposed dredging and subsequent disposal of dredged material into the CAD cell will result in an adverse effect to EFH; however, the District Engineer has made the preliminary determination that the site-specific adverse effect will not be substantial while considering of the proposed compensation plan for eelgrass. Consultation with the National Marine Fisheries Service regarding EFH conservation recommendations is on-going and will be concluded prior to the final decision.

SECTION 7 OF THE ENDANGERED SPECIES ACT: The Corps has reviewed the application for the potential impact on Federally-listed threatened or endangered species and their designated critical habitat pursuant to section 7 of the Endangered Species Act as amended. The District Engineer has made the preliminary determination that the proposed activity for which authorization is being sought is designed, situated or will be operated/used in such a manner that it is not likely to adversely affect a listed species or their critical habitat. The Corps is consulting with NOAA Fisheries and the U.S. Fish and Wildlife Service on listed species under their jurisdiction and Endangered Species Act consultation will be concluded prior to the final decision.

SECTION 106 OF THE NATIONAL HISTORIC PRESERVATION ACT: The Corps has initiated consultation with the Maine Historic Preservation Commission and Maine’s Indian Tribes pursuant to Section 106 of the National Historic Preservation Act of 1966 as amended. The District Engineer has made the preliminary determination that the proposed work is not likely to affect properties listed in, or eligible for listing in, the National Register of Historic Places. The Corps will continue review and consultation to fulfill requirements under the Historic Preservation Act as part of the permit review process.

OTHER APPROVALS: The activities proposed herein will also require permission from the Corps pursuant to 33 U.S.C. 408 because it will alter or temporarily or permanently occupy or use a Corps federally authorized Civil Works project. The proposed alteration involves dredging activities within the channel within the authorized limits of the Federal Navigation Project at 8 of the 47 sites. A permit pursuant to Section 10/404 shall not be granted until the Section 408 permission is issued. Through this public notice we are soliciting information necessary to inform the Corps evaluation and review. The Section 408 permission point of contact for this project is William M. Kavanaugh, and can be contacted at william.m.kavanaugh@usace.army.mil.

The applicant has supplied the Maine Department of Environmental Protection (MaineDEP) with a permit application for the work described in this public notice and is requesting that the Department either grant or waive Water Quality Certification in accordance with Section 401 of the Clean Water Act. Comments regarding the applicant's Permit/Water Quality Certification request may be submitted in writing to: Nick Livesay, Director, Bureau of Land Resources, Department of Environmental Protection, 17 State House Station, Augusta, Maine 04333 or nick.livesay@maine.gov.

COMMENTS: In order to properly evaluate the proposal, we are seeking public comment. Anyone wishing to comment is encouraged to do so. **Comments should be submitted in writing by the above date.** If you have any questions, please contact Colin M. Greenan at colin.m.greenan@usace.army.mil at our Augusta, Maine Project Office.

Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider the application. Requests for a public hearing shall specifically state the reasons for holding a public hearing. The Corps holds public hearings for the purpose of obtaining public comments when that is the best means for understanding a wide variety of concerns from a diverse segment of the public.

The initial determinations made herein will be reviewed in light of facts submitted in response to this notice. All comments will be considered a matter of public record. Copies of letters of objection will be forwarded to the applicant who will normally be requested to contact objectors directly in an effort to reach an understanding.

THIS NOTICE IS NOT AN AUTHORIZATION TO DO ANY WORK.

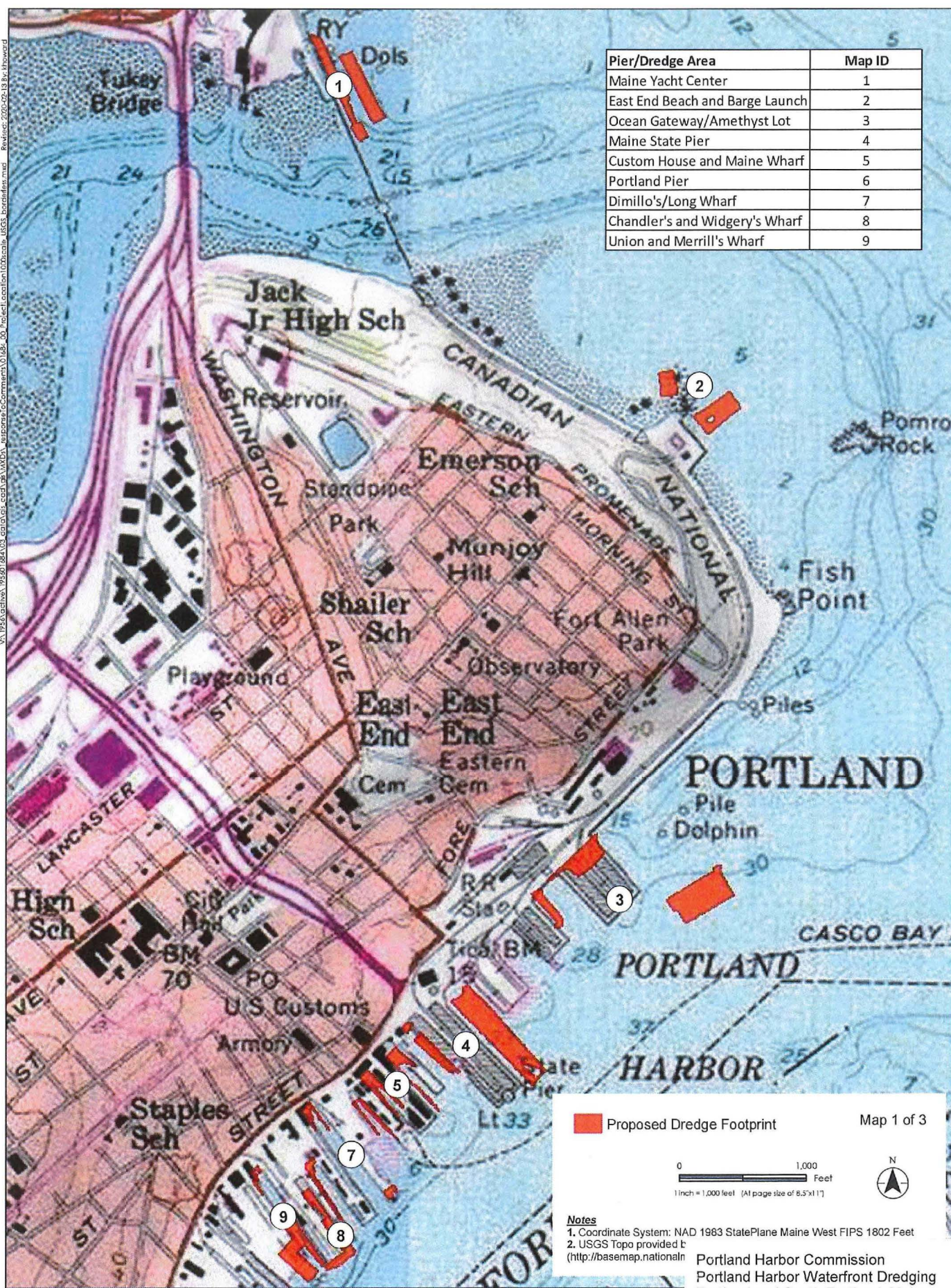
**Frank J. Del Giudice
Chief, Permits and Enforcement Branch
Regulatory Division**


If you would prefer not to continue receiving Public Notices, please contact Ms. Tina Chaisson at (978) 318-8058 or bettina.m.chaisson@usace.army.mil. You may also check here () and return this portion of the Public Notice to: Bettina Chaisson, Regulatory Division, U.S. Army Corps of Engineers, 696 Virginia Road, Concord, MA 01742-2751.

NAME: _____
ADDRESS: _____
PHONE: _____

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Revised: 2020-02-18 by Howard

Pier/Dredge Area	Map ID
Maine Yacht Center	1
East End Beach and Barge Launch	2
Ocean Gateway/Amethyst Lot	3
Maine State Pier	4
Custom House and Maine Wharf	5
Portland Pier	6
Dimillo's/Long Wharf	7
Chandler's and Widgery's Wharf	8
Union and Merrill's Wharf	9




 Proposed Dredge Footprint

Map 1 of 3

01000

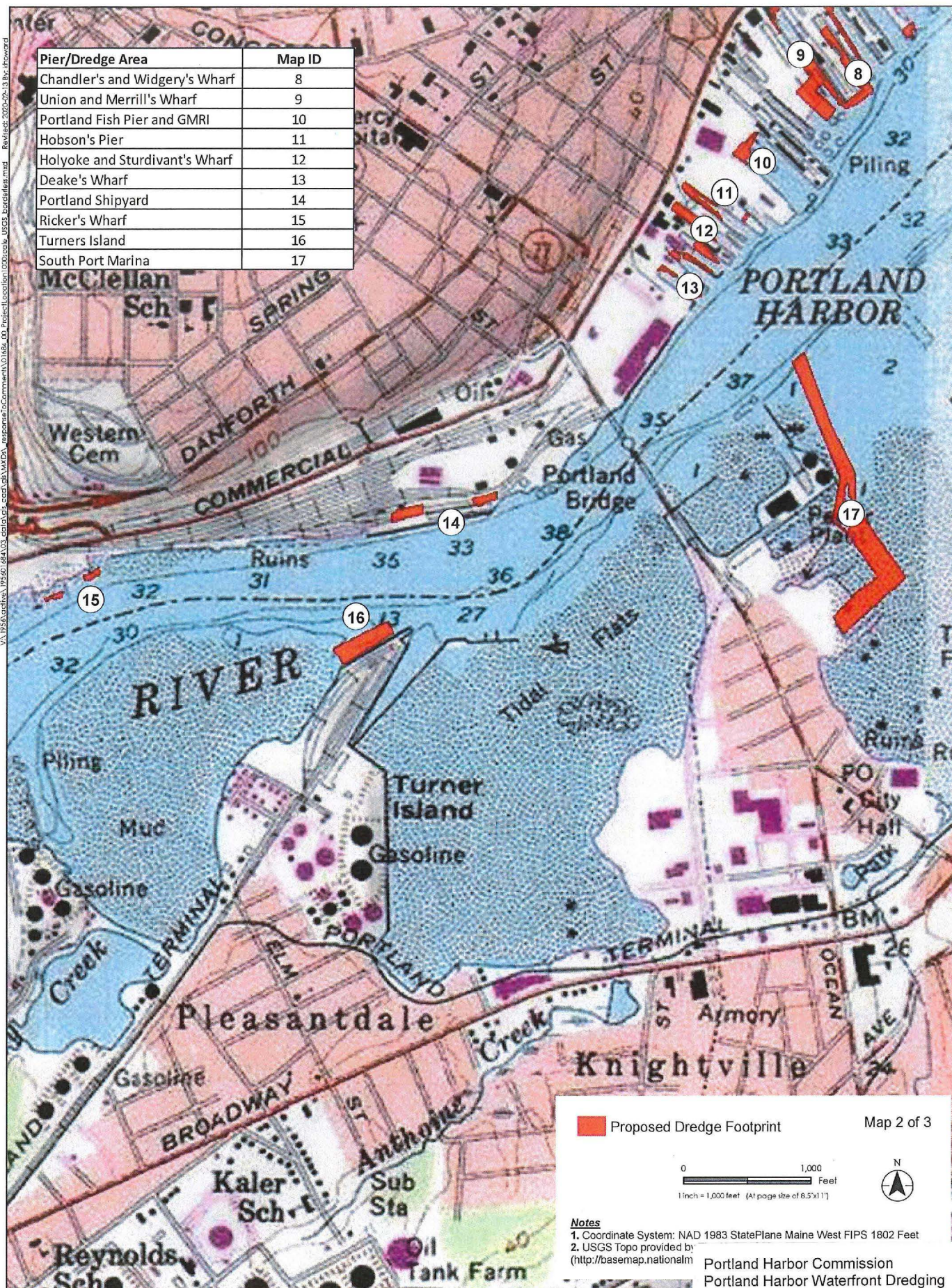
Feet

1 inch = 1,000 feet (At page size of 8.5"x11")

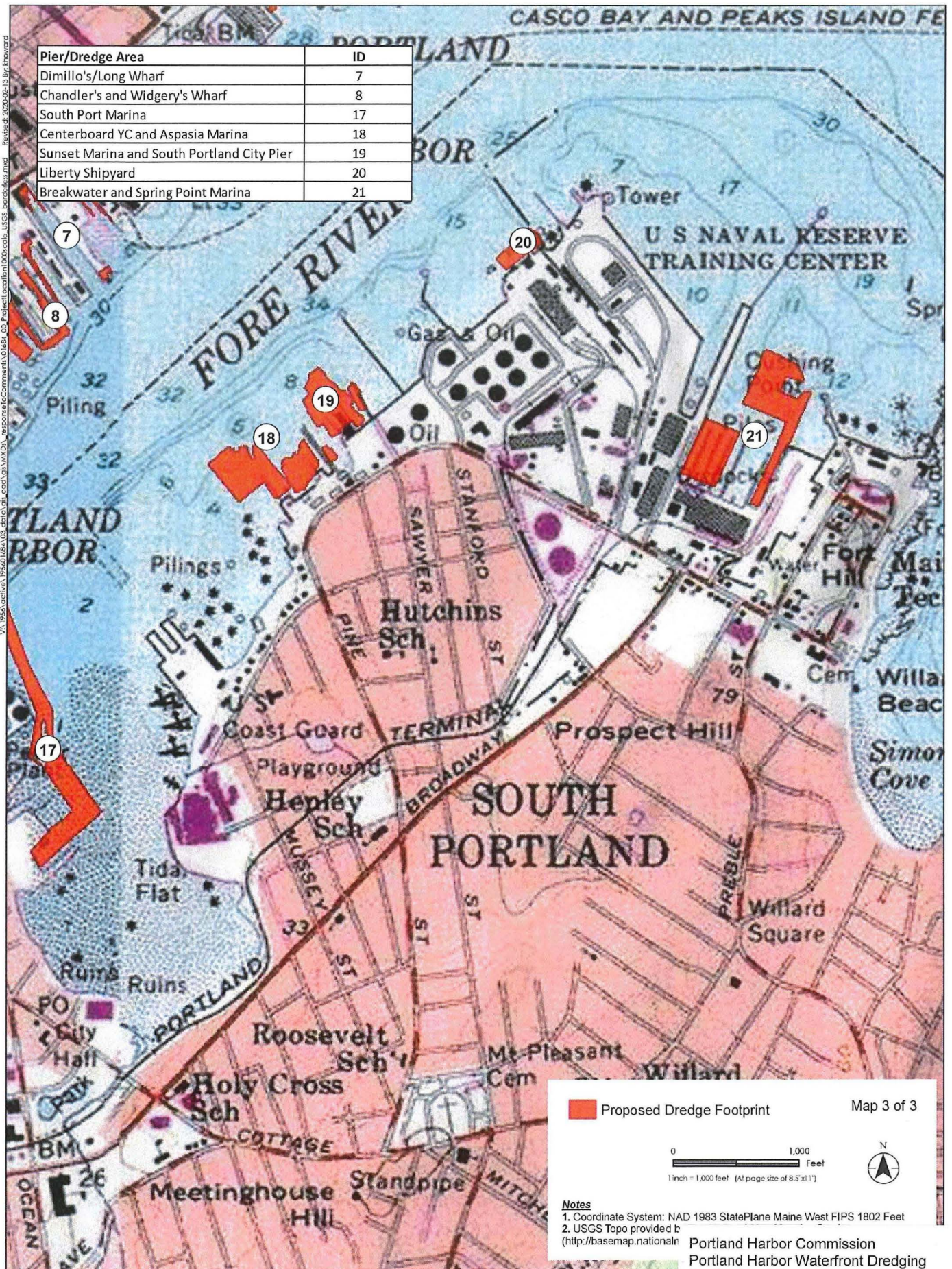


Notes
1. Coordinate System: NAD 1983 StatePlane Maine West FIPS 1802 Feet
2. USGS Topo provided to
(<http://basemap.nationaln>)
Portland Harbor Commission
Portland Harbor Waterfront Dredging
Portland and South Portland, Maine
NAE-2020-00214
Sheet 1 of 32

Pier/Dredge Area	Map ID
Chandler's and Widgery's Wharf	8
Union and Merrill's Wharf	9
Portland Fish Pier and GMRI	10
Hobson's Pier	11
Holyoke and Sturdivant's Wharf	12
Deake's Wharf	13
Portland Shipyard	14
Ricker's Wharf	15
Turners Island	16
South Port Marina	17



Pier/Dredge Area	ID
Dimillo's/Long Wharf	7
Chandler's and Widgery's Wharf	8
South Port Marina	17
Centerboard YC and Aspasia Marina	18
Sunset Marina and South Portland City Pier	19
Liberty Shipyard	20
Breakwater and Spring Point Marina	21



Joint Natural Resource Protection Act Permit/USACE Individual Permit
 South Portland, Maine
 Portland Harbor CAD Cell
 Attachment 1: Activity Description

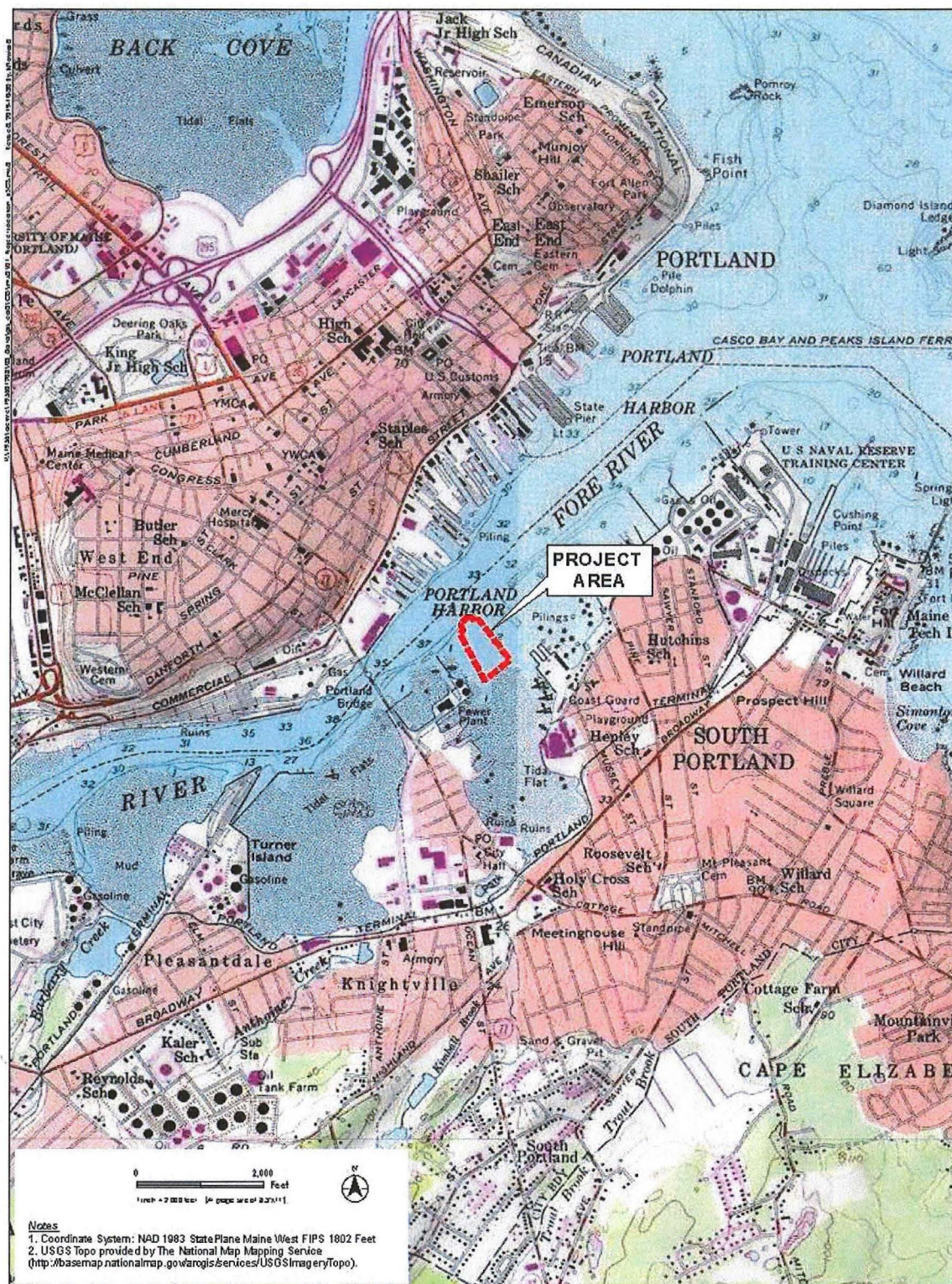
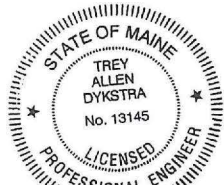


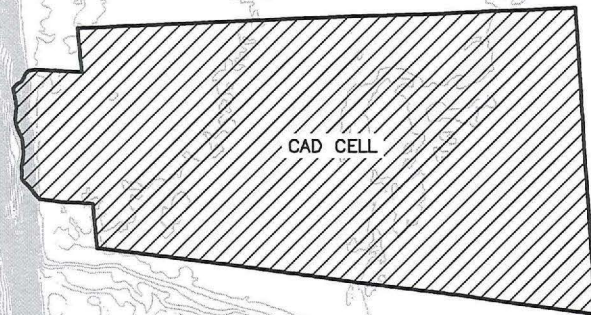
Figure 1. Project Location: 7.5 Minute Series USGS Topographic Quadrangle – Portland, ME





Trey Dykstra
11/26/2019

FORE RIVER
↓

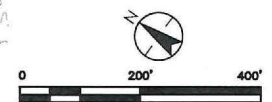


CAD CELL

UNITED STATES
COAST GUARD
STATION
008*0000*084*

SOUTH PORT
MARINA
015*0000*134B

CENTRAL
MAINE
POWER
016*0000*001*
015*0000*090D



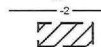
- NOTES:
1. HYDROGRAPHIC BATHYMETRIC SURVEY PERFORMED BY APEX COMPANIES, LLC. BETWEEN NOVEMBER 29, 2016 THROUGH DECEMBER 1, 2018.
 2. HYDROGRAPHIC SURVEY DATUM IS REFERENCED TO MEAN LOWER LOW WATER (MLLW) 1983-2001 TIDAL EPOCH. THE CORRECTION FROM NAVD88 TO MLLW IS 5.25 FEET FOR CASCO BAY.
 3. AN ADDITIONAL 1' OVERDREDGE HAS BEEN APPLIED TO EACH PROPOSED DREDGE AREA.
 4. SIDE SLOPES SHOWN AS 3H:1V ARE INDICATIVE, BASED ON PRELIMINARY ANALYSIS AND LIMITED SUBSURFACE INFORMATION. ADDITIONAL GEOTECHNICAL INVESTIGATIONS WILL BE CONDUCTED FOR FINAL CAD CELL DESIGN. THIS INCLUDES ADDITIONAL GEOTECHNICAL BORINGS TO CONFIRM DEPTH TO BEDROCK; AND FIELD AND LABORATORY TESTING TO DEVELOP SOIL STRENGTH PARAMETERS. THE FIELD AND LABORATORY DATA WILL BE USED TO REFINES THE STABILITY ANALYSIS AND TO DETERMINE FINAL DESIGN SIDE SLOPES INCLUDING APPROPRIATE FACTOR OF SAFETY.
 5. THE APPROXIMATE MEAN LOW WATER LINE (EL. 0.35' MLLW) DERIVED FROM THE LIMITS OF THE EXISTING BATHYMETRY SURVEY AND MAY NOT BE SHOWN IN ALL AREAS. THE APPROXIMATE MEAN HIGH WATER LINE (EL. 9.51' MLLW) DERIVED FROM 2' CONTOUR INTERVAL USGS CONTOURS OBTAINED FROM THE MAINE OFFICE OF GIS. ACCURACY OF EACH LINE FEATURE VARIES BY LOCATION DUE TO VARIABLES SUCH AS OBSTRUCTIONS (E.G. VESSELS), SURVEY TIME OF YEAR, AND COLLECTION METHODS.



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30 Park Drive
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NOVEMBER, 2019

Legend



1' BATHYMETRY CONTOUR

ESTIMATED DREDGE AREA

TAX MAP PARCEL LINE

016*0000*001*

TAX MAP PARCEL NUMBER

APPROXIMATE SUBMERGED LANDS REGULATORY LIMIT (1870)

MLW

APPROXIMATE MEAN LOW WATER

MHW

APPROXIMATE MEAN HIGH WATER

Client/Project
City of Portland
Portland Harbor
CAD Cell Project

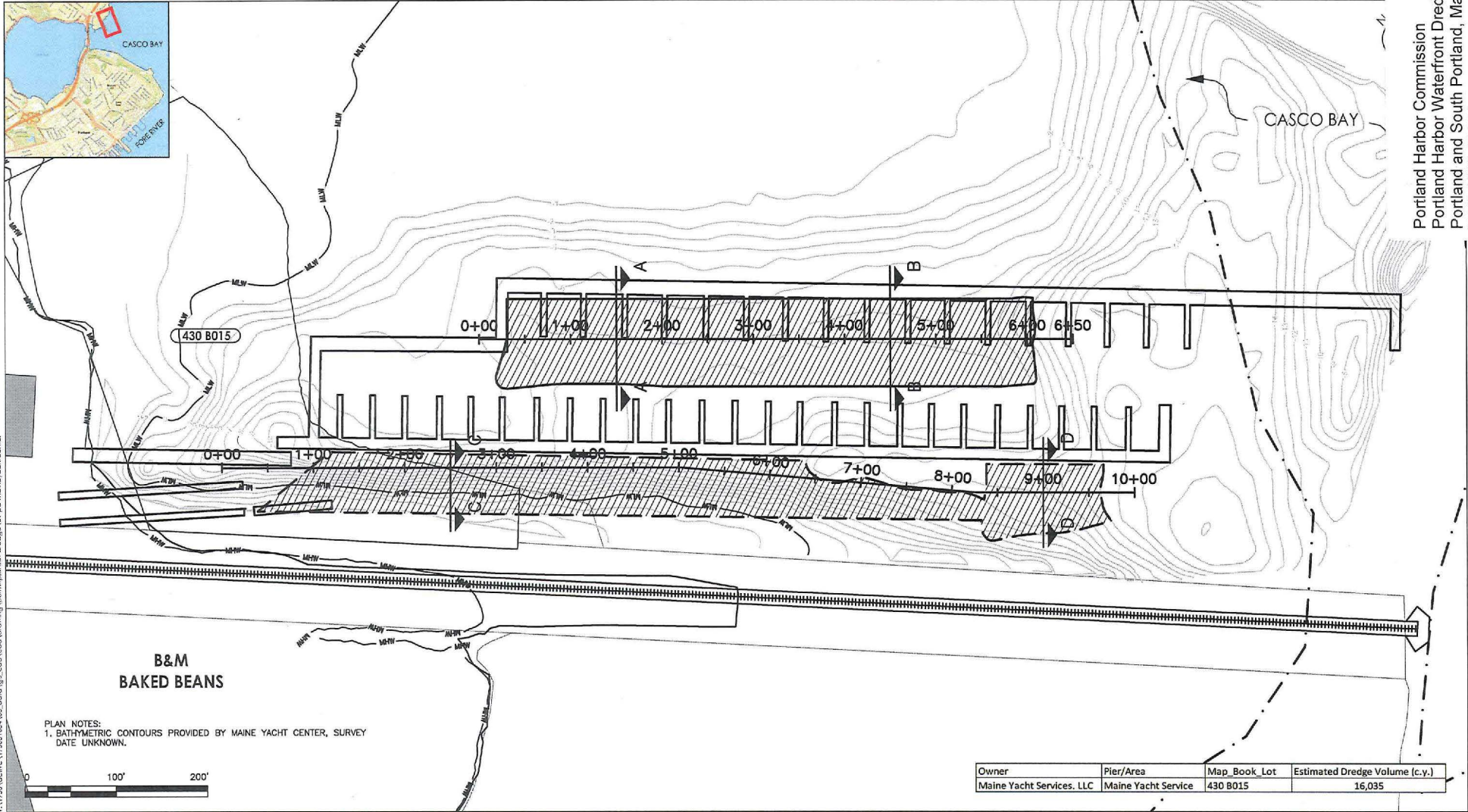
Project No.
195601208

Title
Proposed CAD Cell
Plan

Revision _____ Date 2019.11.13

Reference Sheet _____ Figure No. 1

Portland Harbor Commission
Portland Harbor Waterfront Dredging
Portland and South Portland, Maine
NAE-2020-00214
Sheet 5 of 32
2019.11.13



PLAN NOTES:
1. BATHYMETRIC CONTOURS PROVIDED BY MAINE YACHT CENTER, SURVEY DATE UNKNOWN.

Owner	Pier/Area	Map_Book_Lot	Estimated Dredge Volume (c.y.)
Maine Yacht Services, LLC	Maine Yacht Service	430 B015	16,035



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NOVEMBER, 2019

NOTES:

1. HYDROGRAPHIC BATHYMETRIC SURVEY PERFORMED BY APEX COMPANIES, LLC. BETWEEN NOVEMBER 29, 2016 THROUGH DECEMBER 1, 2016 UNLESS OTHERWISE NOTED.
2. HYDROGRAPHIC SURVEY DATUM IS REFERENCED TO MEAN LOWER LOW WATER (MLLW) 1983-2001 TIDAL EPOCH. THE CORRECTION FROM NAVD83 TO MLLW IS 5.25 FEET FOR CASCO BAY.
3. ELEVATION ASSUMPTIONS WERE MADE TO THE EXISTING BATHYMETRIC SURFACES WHERE ELEVATION DATA WAS MISSING TO COMPLETE PROPOSED DREDGE AREA FOOTPRINTS. RESULTS IN THOSE AREAS IS APPROXIMATE.
4. AN ADDITIONAL 1' OVERDREDGE HAS BEEN APPLIED TO EACH PROPOSED DREDGE AREA.
5. EACH PROPOSED DREDGE AREA INCLUDES 3:1 SIDE SLOPES EXCEPT WHERE THEY PARALLEL EXISTING PIERS OR ALONG ROCK FACED SHORELINES. IN THOSE CASES A STRAIGHT CUT EDGE WAS APPLIED.
6. THE APPROXIMATE MEAN LOW WATER LINE (EL. 0.35' MLLW) DERIVED FROM THE LIMITS OF THE EXISTING BATHYMETRY SURVEY AND MAY NOT BE SHOWN IN ALL AREAS. THE APPROXIMATE MEAN HIGH WATER LINE (EL. 9.51' MLLW) DERIVED FROM 2' CONTOUR INTERVAL USGS CONTOURS OBTAINED FROM THE MAINE OFFICE OF GIS. ACCURACY OF EACH LINE FEATURE VARIES BY LOCATION DUE TO VARIABLES SUCH AS OBSTRUCTIONS (E.G. VESSELS), SURVEY TIME OF YEAR, AND COLLECTION METHODS.

Legend

- 2- 1' BATHYMETRY CONTOUR
- DREDGE AREA TAX MAP PARCEL LINE
- 430 B015 TAX MAP AND PARCEL NUMBER
- ESTIMATED DREDGE AREA
- EXISTING BUILDING/STRUCTURE
- APPROXIMATE SUBMERGED LANDS REGULATORY LIMIT (1833, 1866, OR 1870)
- MLW APPROX. MEAN LOW WATER
- MHW APPROX. MEAN HIGH WATER
- STORMWATER OUTFALL

Client/Project

Portland Harbor
Commission
Portland Harbor
Dredge Project

Project No.

175601684

Title

Maine Yacht Center
Proposed Dredge
Plan View

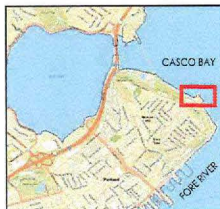
Revision

Reference Sheet

Date
2019.11.13

Figure No.

Portland Harbor Commission
Portland Harbor Waterfront Dredging
Portland and South Portland, Maine
NAE-2020-00214
Sheet 6 of 32
2019.11.13



Owner	Pier/Area	Map Book Lot	Estimated Dredge Volume (c.y.)
City of Portland	East End Public Launch	004 C002, 001 X002	7,059



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NOVEMBER, 2019

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2. HYDROGRAPHIC SURVEY DATUM IS REFERENCED TO MEAN LOWER LOW WATER (MLLW) 1983-2001 TIDAL EPOCH. CORRECTION FROM NAVD83 TO MLLW IS 5.25' FOR CASCO BAY.
3. ELEVATION ASSUMPTIONS WERE MADE TO THE EXISTING BATHYMETRIC SURFACES WHERE ELEVATION DATA WAS MISSING TO COMPLETE PROPOSED DREDGE AREA FOOTPRINTS. RESULTS IN THOSE AREAS ARE APPROXIMATE.
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Legend

- 2- 1' BATHYMETRIC CONTOUR
- DREDGE AREA TAX MAP PARCEL LINE
- 0.00 HSD1 TAX MAP AND PARCEL NUMBER
- ESTIMATED DREDGE AREA
- EXISTING BUILDING/STRUCTURE
- APPROXIMATE SUBMERGED LANDS REGULATORY LIMIT (1833, 1865, OR 1870)
- MLW APPROX. MEAN LOW WATER
- MHW APPROX. MEAN HIGH WATER
- STORMWATER CUTOFF

Client/Project

Portland Harbor
Commission
Portland Harbor
Dredge Project

Project No.
195601684

Title

East End Beach
Proposed Dredge
Plan View

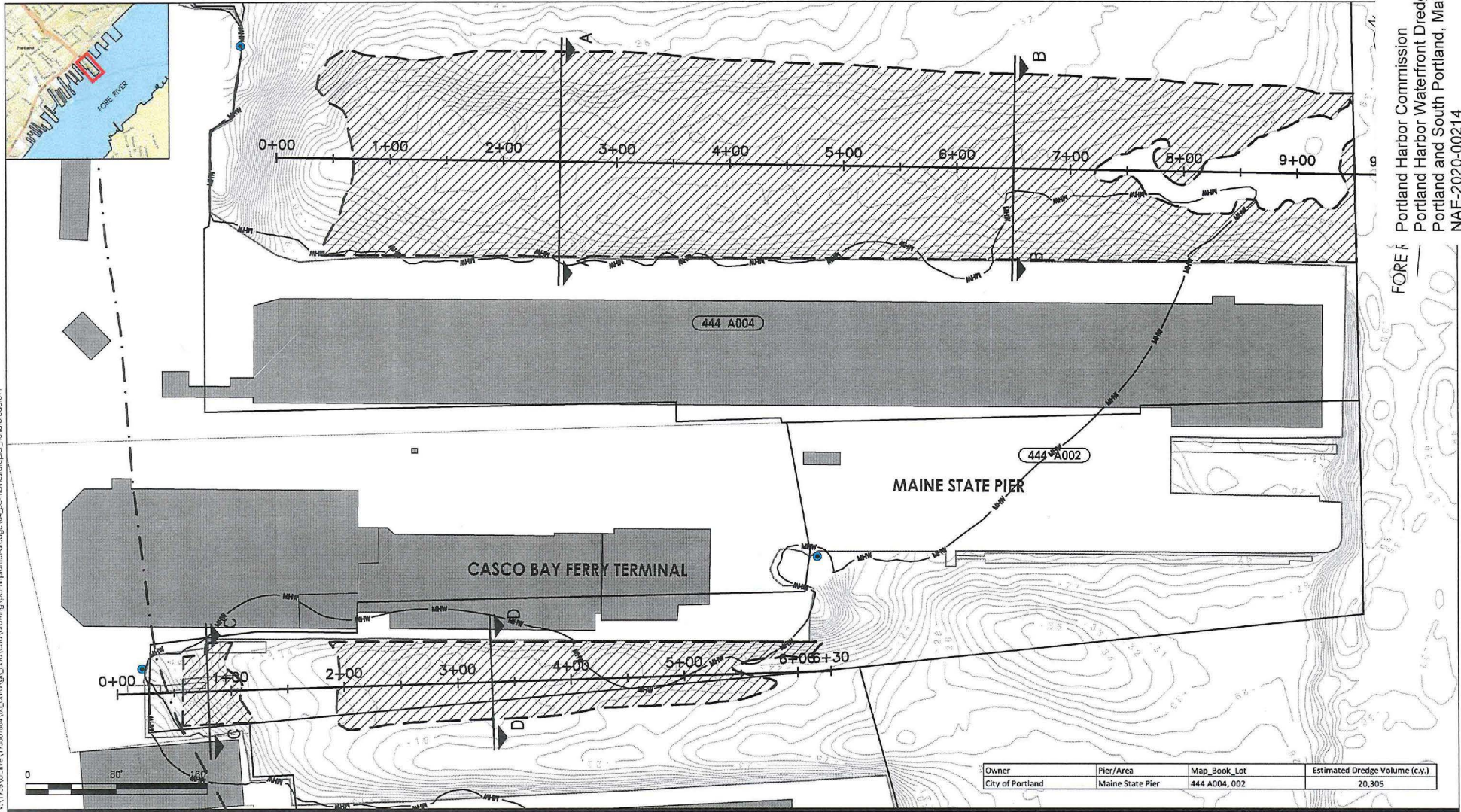
Revision
Reference Sheet

Date
2019.11.13
Figure No.

Portland Harbor Commission
Portland Harbor Waterfront Dredging
Portland and South Portland, Maine
NAE-2020-00214
Sheet 7 of 32
2019.11.13

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2019.11.14 2:27:01 PM



Owner	Pier/Area	Map Book Lot	Estimated Dredge Volume (c.y.)
City of Portland	Maine State Pier	444 A004, 002	20,305



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 3. ELEVATION ASSUMPTIONS WERE MADE TO THE EXISTING BATHYMETRIC SURFACES WHERE ELEVATION DATA WAS MISSING TO COMPLETE PROPOSED DREDGE AREA FOOTPRINTS. RESULTS IN THOSE AREAS ARE APPROXIMATE.
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Legend

- 2- 1' BATHYMETRY CONTOUR
- DREDGE AREA TAX MAP PARCEL LINE
- 0300 0000 TAX MAP AND PARCEL NUMBER
- ESTIMATED DREDGE AREA
- EXISTING BUILDING/STRUCTURE
- APPROXIMATE SUBMERGED LANDS REGULATORY LIMIT (1633, 1965, OR 1870)
- MLW APPROX. MEAN LOW WATER
- MHW APPROX. MEAN HIGH WATER
- STORMWATER OUTFALL

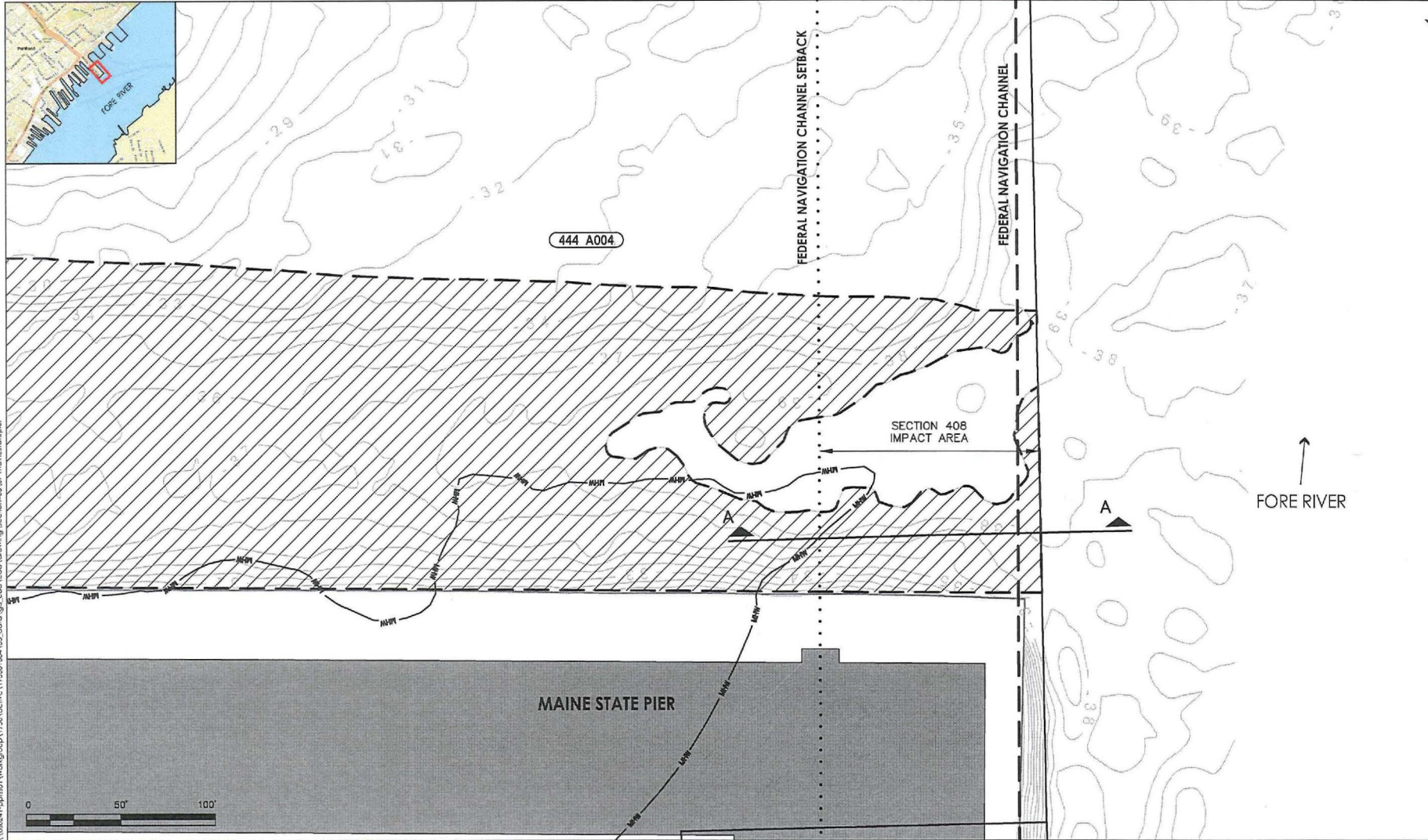
Client/Project
Portland Harbor
Commission
Portland Harbor
Dredge Project

Project No.
195601684

Title
Maine State Pier
Proposed Dredge
Plan View

Revision	Date
	2019.11.13
Reference Sheet	Figure No.

Portland Harbor Commission
Portland Harbor Waterfront Dredging
Portland and South Portland, Maine
NAE-2020-00214
Sheet 10 of 32
2019.11.13



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2020.03.18 11:18:07 AM



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2. HYDROGRAPHIC SURVEY DATUM IS REFERENCED TO MEAN LOWER LOW WATER (MLLW) 1983-2001 TIDAL EPOCH. CORRECTION FROM NAVD83 TO MLLW IS 5.28' FOR CASCO BAY.
3. ELEVATION ASSUMPTIONS WERE MADE TO THE EXISTING BATHYMETRIC SURFACES WHERE ELEVATION DATA WAS MISSING TO COMPLETE PROPOSED DREDGE AREA FOOTPRINTS. RESULTS IN THOSE AREAS ARE APPROXIMATE.
4. A 1' OVERDREDGE HAS BEEN APPLIED TO EACH PROPOSED DREDGE AREA.
5. PROPOSED DREDGE AREAS INCLUDE 3:1 SIDE SLOPES EXCEPT WHERE THEY PARALLEL EXISTING PIERS OR ALONG ROCK FACED SHORELINES. IN THOSE CASES, A STRAIGHT CUT EDGE WAS APPLIED.
6. APPROXIMATE MEAN LOW WATER LINE (EL. 0.35' MLLW) DERIVED FROM EXISTING BATHYMETRY SURVEY LIMITS AND MAY NOT BE SHOWN IN ALL AREAS. APPROXIMATE MEAN HIGH WATER LINE (EL. 8.51' MLLW) DERIVED FROM 2' LUGS CONTOURS OBTAINED FROM THE MAINE OFFICE OF GIS. ACCURACY OF EACH LINE FEATURE VARIES BY LOCATION DUE TO VARIABLES SUCH AS OBSTRUCTIONS (E.G., VESSELS), SURVEY TIME OF YEAR, AND COLLECTION METHODS.

Legend

- 2- 1' BATHYMETRY CONTOUR
- DREDGE AREA TAX MAP PARCEL LINE
- TAX MAP AND PARCEL NUMBER
- ESTIMATED DREDGE AREA
- EXISTING BUILDING/STRUCTURE
- APPROXIMATE SUBMERGED LANDS
- REGULATORY LIMIT (1833, 1866, OR 1870)
- MLW APPROX. MEAN LOW WATER
- MHW APPROX. MEAN HIGH WATER
- STORMWATER OUTFALL

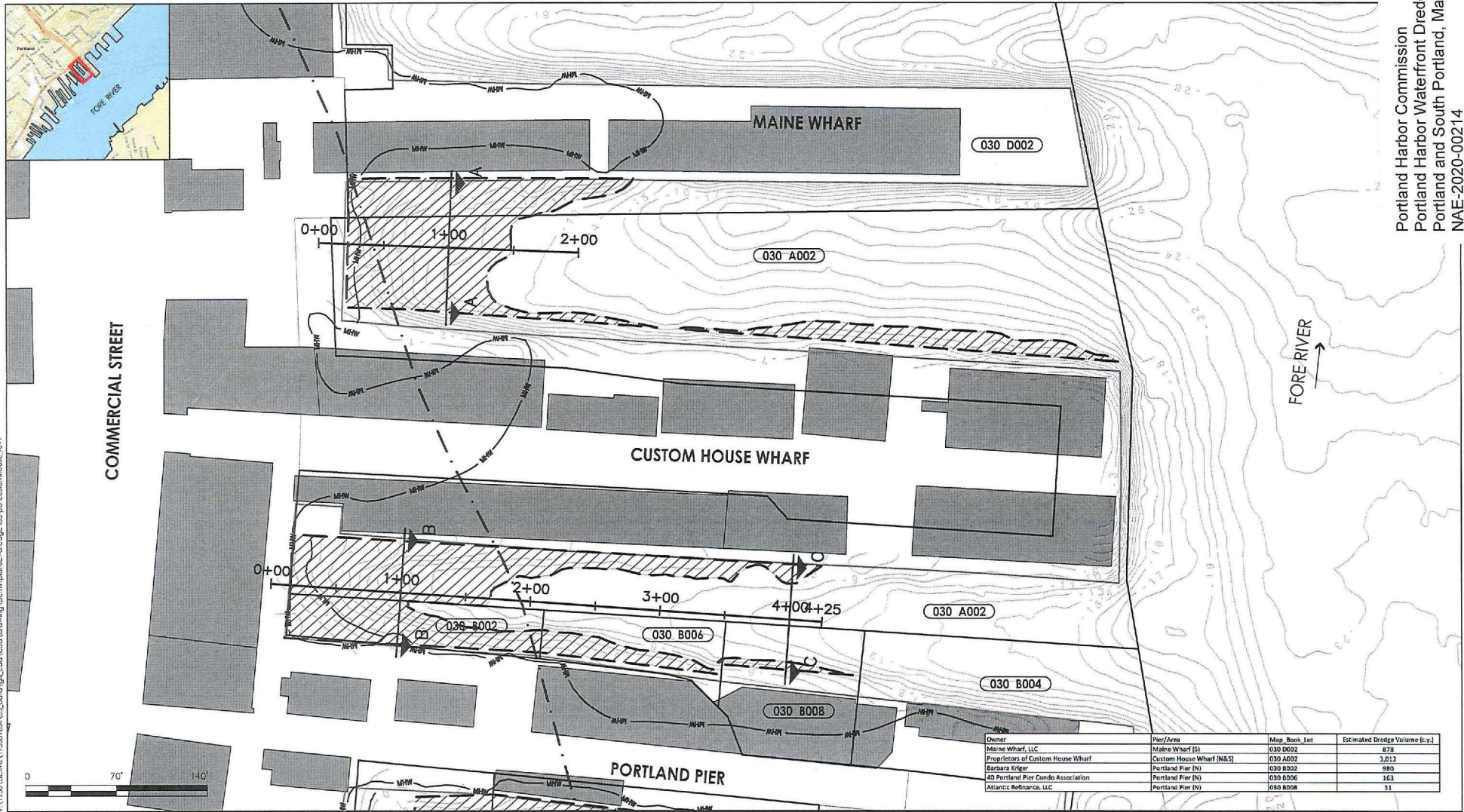
Client/Project
Portland Harbor
Commission
Portland Harbor
Dredge Project
Section 408 Impacts
Project No.
195601208

Title
Impact Area 7
Maine State Pier Proposed
Dredge Plan View
Revision
Date
2020.03.18
Reference Sheet
Figure No.

Portland Harbor Commission
Portland Harbor Waterfront Dredging
Portland and South Portland, Maine
NAE-2020-00214
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2020.03.18

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NOTES:

1. HYDROGRAPHIC BATHYMETRIC SURVEY PERFORMED BY APEX COMPANIES, LLC, BETWEEN NOVEMBER 29 AND DECEMBER 1, 2016, UNLESS OTHERWISE NOTED.
2. HYDROGRAPHIC SURVEY DATUM IS REFERENCED TO MEAN LOWER LOW WATER (MLLW) 1983-2001 TIDAL EPOCH. CORRECTION FROM NAVD83 TO MLLW IS 5.25' FOR CASCO BAY.
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Legend

- 2- 1' BATHYMETRIC CONTOUR
- - - DREDGE AREA TAX MAP PARCEL LINE
- 030 0001 TAX MAP AND PARCEL NUMBER
- ESTIMATED DREDGE AREA
- EXISTING BUILDING/STRUCTURE
- APPROXIMATE SUBMERGED LANDS REGULATORY LIMIT (1633, 1865, OR 1870)
- MLW APPROX. MEAN LOW WATER
- MHW APPROX. MEAN HIGH WATER
- STORMWATER OUTFALL

Client/Project
Portland Harbor
Commission
Portland Harbor
Dredge Project

Project No.
195601684

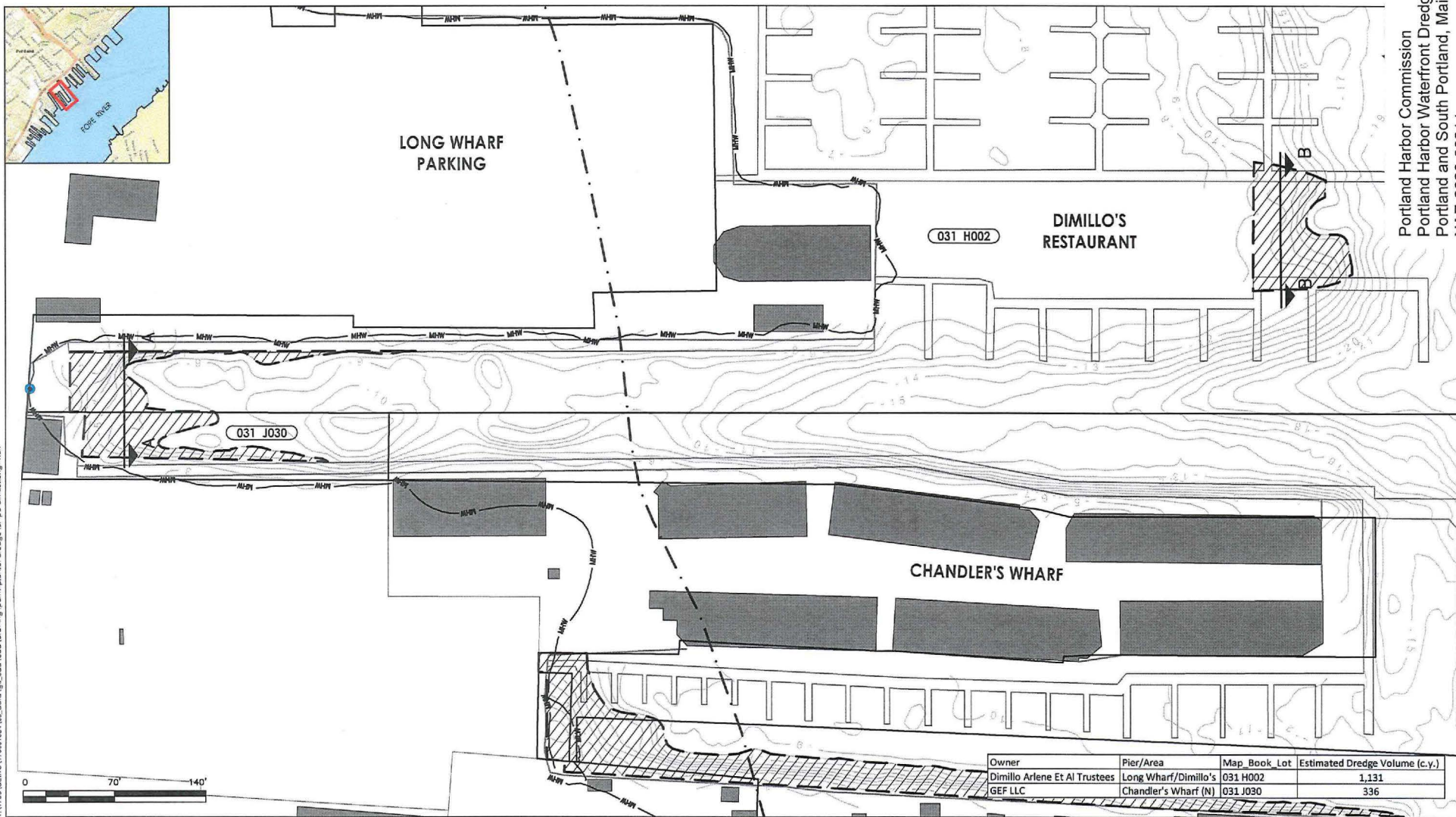
Title
Maine/Custom House
Wharf & Portland Pier (N)
Proposed Dredge Plan View

Revision
Date
2019.11.13
Reference Sheet
Figure No.

Portland Harbor Commission
Portland Harbor Waterfront Dredging
Portland and South Portland, Maine
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2019.11.13

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Owner	Pier/Area	Map_Book_Lot	Estimated Dredge Volume (c.y.)
Dimillo Arlene Et Al Trustees	Long Wharf/Dimillo's	031 H002	1,131
GEF LLC	Chandler's Wharf (N)	031 J030	336

- NOTES:
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- Legend
- 2- 1' BATHYMETRY CONTOUR
 - DREDGE AREA TAX MAP PARCEL LINE
 - 031 H001 TAX MAP AND PARCEL NUMBER
 - ESTIMATED DREDGE AREA
 - EXISTING BUILDING/STRUCTURE
 - APPROXIMATE SUBMERGED LANDS REGULATORY LIMIT (1833, 1866, OR 1870)
 - MLW APPROX. MEAN LOW WATER
 - MHW APPROX. MEAN HIGH WATER
 - STORMWATER OUTFALL

Client/Project
Portland Harbor
Commission
Portland Harbor
Dredge Project

Title
Dimillo's/Long and
Chandler's Wharf (N)
Proposed Dredge Plan View

Revision _____ Date 2019.11.13

Reference Sheet _____ Figure No. _____

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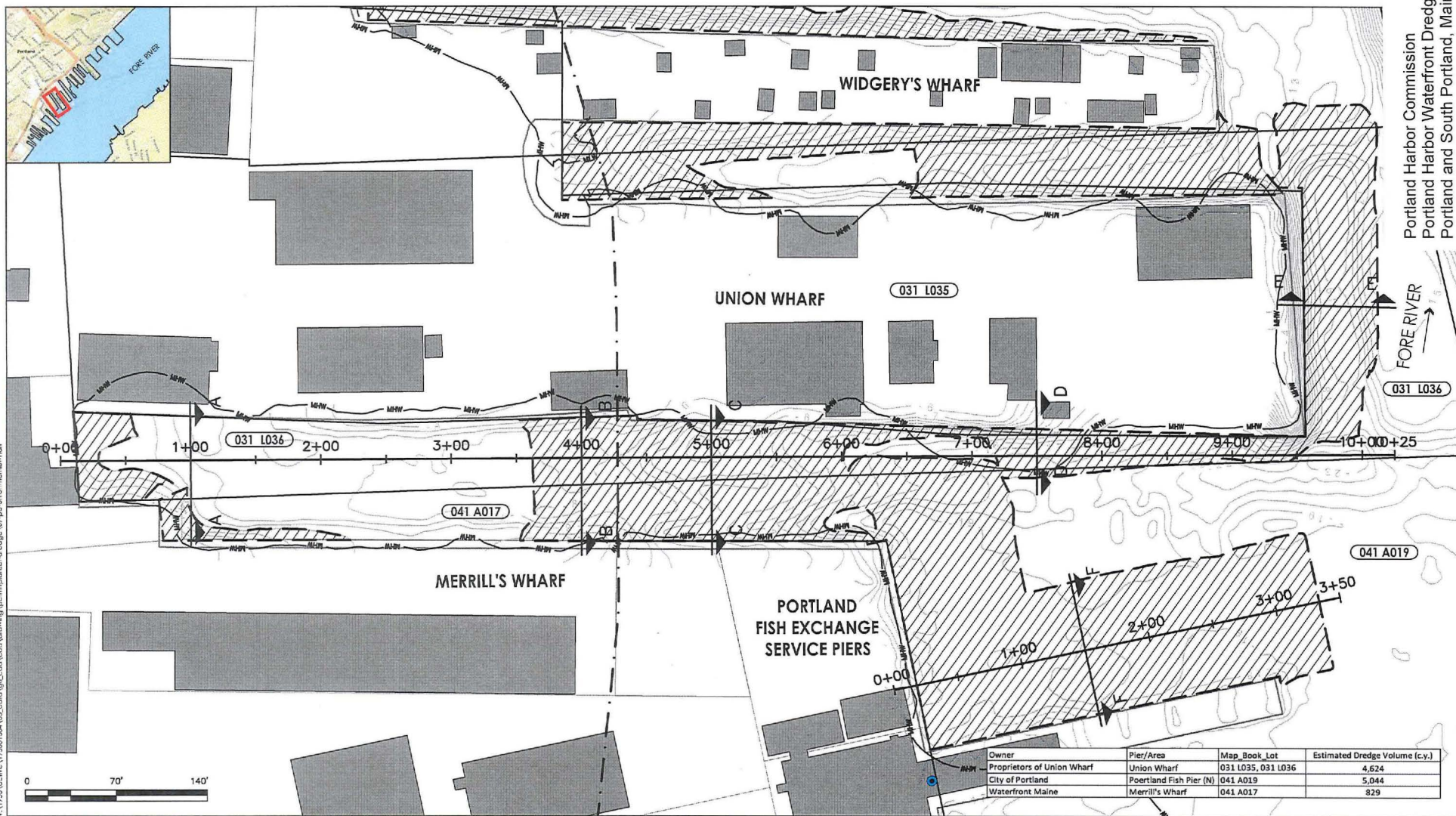
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Portland Harbor Commission
Portland Harbor Waterfront Dredging
Portland and South Portland, Maine
NAE-2020-00214
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2019.11.13

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Legend

- 2- 1' BATHYMETRIC CONTOUR
- DREDGE AREA TAX MAP PARCEL LINE
- TAX MAP AND PARCEL NUMBER
- ESTIMATED DREDGE AREA
- EXISTING BUILDING/STRUCTURE
- APPROXIMATE SUBMERGED LANDS REGULATORY LIMIT (1833, 1866, OR 1870)
- MLW - APPROX. MEAN LOW WATER
- MHW - APPROX. MEAN HIGH WATER
- Stormwater Outfall

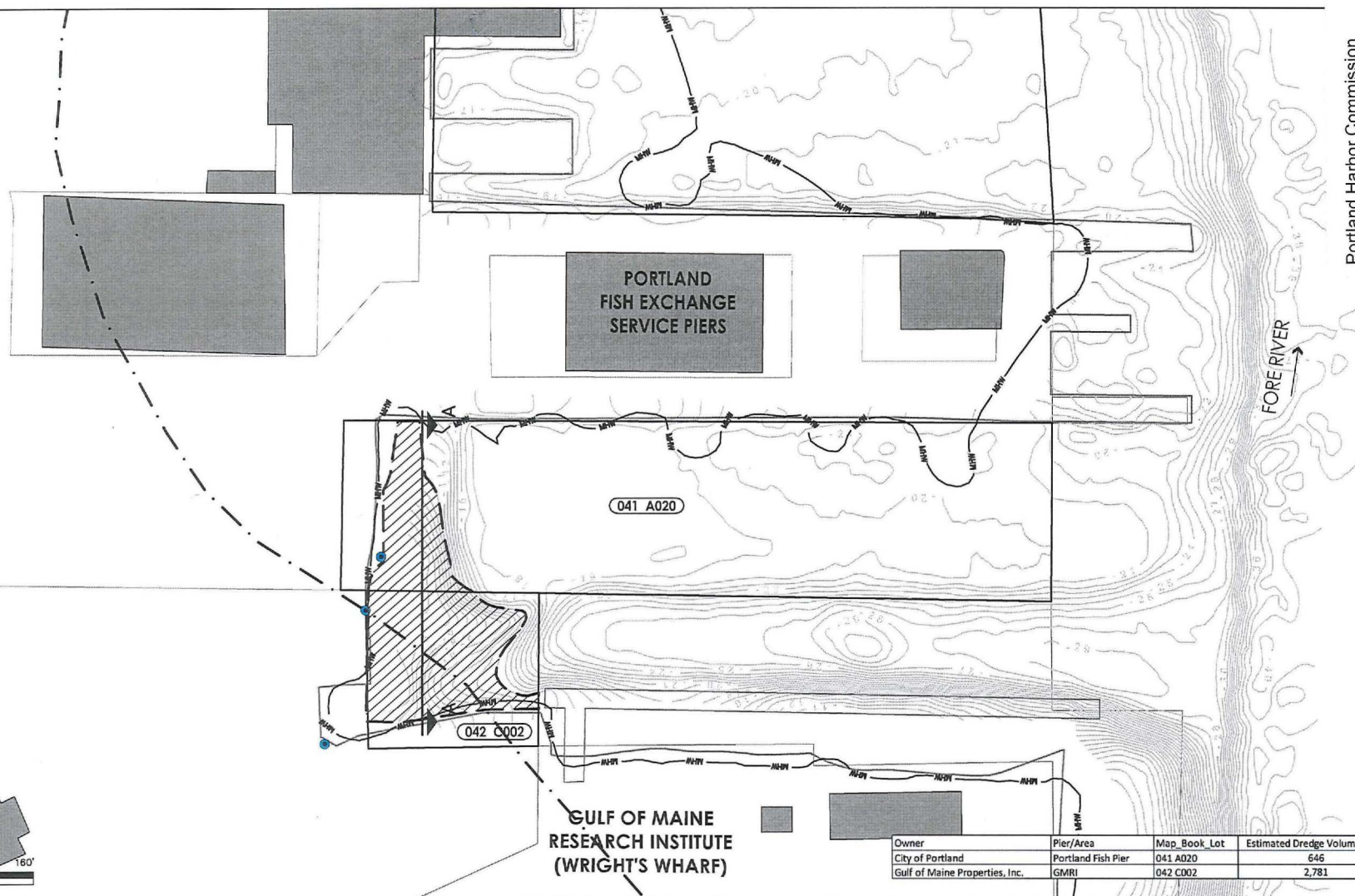
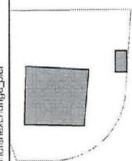
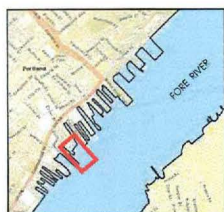
Client/Project
Portland Harbor
Commission
Portland Harbor
Dredge Project

Project No.
195601684

Title
Union Wharf (S) & Merrill's Wharf/
Portland Fish Pier (N)
Proposed Dredge Plan View

Revision	Date
	2019.11.13
Reference Sheet	Figure No.

Portland Harbor Commission
Portland Harbor Waterfront Dredging
Portland and South Portland, Maine
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

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 2. HYDROGRAPHIC SURVEY DATUM IS REFERENCED TO MEAN LOWER LOW WATER (MLLW) 1983-2001 TIDAL EPOCH.
 3. POSITION FROM SAN FRANCISCO, CA, BY THE GULF OF THE CASCADIA SEA.
 4. ELEVATION ASSUMPTIONS WERE MADE TO THE EXISTING BATHYMETRIC SURFACES WHERE ELEVATION DATA WAS MISSING TO COMPLETE PROPOSED DREDGE AREA FOOTPRINTS. RESULTS IN THOSE AREAS ARE APPROXIMATE.
 5. PROPOSED DREDGE AREAS INCLUDE 3:1 SIDE SLOPES EXCEPT WHERE THEY PARALLEL EXISTING PIERS OR ALONG ROCKY APPROACH MEAN WATER LINE (EL. 0.0).
 6. APPROXIMATE MEAN WATER LINE (EL. 0.0) WAS DETERMINED FROM BATHYMETRY SURVEY LIMITS AND USGS COASTS SHOWN IN ALL AREAS. APPROXIMATE MEAN HIGH WATER LINE (EL. 9.5') DERIVED FROM 2' USGS CONTOURS OBTAINED FROM THE MAINE OFFICE OF COAST GUARD. ACCURACY OF EACH LINE FEATURE VARIES BY LOCATION DUE TO VARIABLES SUCH AS OBSTRUCTIONS (E.G., VESSELS), SURVEY TIME OF YEAR, AND COLLECTION

Legend

- - - - - 1' BATHYMETRY CONTOUR
 DREDGE AREA TAX MAP PARCEL LINE
 (030 0001) TAX MAP AND PARCEL NUMBER
 ESTIMATED DREDGE AREA
 EXISTING BUILDING/STRUCTURE
 - - - - - APPROXIMATE SUBMERGED LANDS REGULATORY LIMIT (1833, 1866, OR 1870)
 -MLW- APPROX. MEAN LOW WATER
 -MHW- APPROX. MEAN HIGH WATER
 STORMWATER OUTFALL

Client/Project	
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Portland Harbor
Commission
Portland Harbor
Dredge Project

Project No.
195601684

	Title
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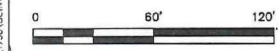
Portland Fish Pier (S) &
GMRI Proposed Dredge
Plan View

Revision	Date
	2019.11.13
Reference Sheet	Figure No.

Portland Harbor: Commission
Portland Harbor Waterfront Dredging
Portland and South Portland, Maine
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COMMERCIAL STREET



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Legend

- 2- 1' BATHYMETRIC CONTOUR
- DREDGE AREA TAX MAP PARCEL LINE
- 0302 10001 TAX MAP AND PARCEL NUMBER
- ESTIMATED DREDGE AREA
- EXISTING BUILDING/STRUCTURE
- APPROXIMATE SUBMERGED LANDS REGULATORY LIMIT (1833, 1856, OR 1870)
- MLW APPROX. MEAN LOW WATER
- MHW APPROX. MEAN HIGH WATER
- STORMWATER OUTFALL

GULF OF MAINE
RESEARCH INSTITUTE
(WRIGHT'S WHARF)

042 D002

HOBSON'S PIER

042 D003

042 E002

BERLIN MILLS WHARF

FORE RIVER

Owner	Pier/Area	Map Book Lot	Estimated Dredge Volume (c.y.)
Hobson Pier, Inc.	Hobson's Pier	042 D002, D003	789
The Berlin Mills LLC	Berlin Mills Wharf	042 E002	1,553

Client/Project
Portland Harbor
Commission
Portland Harbor
Dredge Project

Project No.
195601684

Title
Hobson's Pier/Berlin Mill's
Wharf (N) Proposed
Dredge Plan View

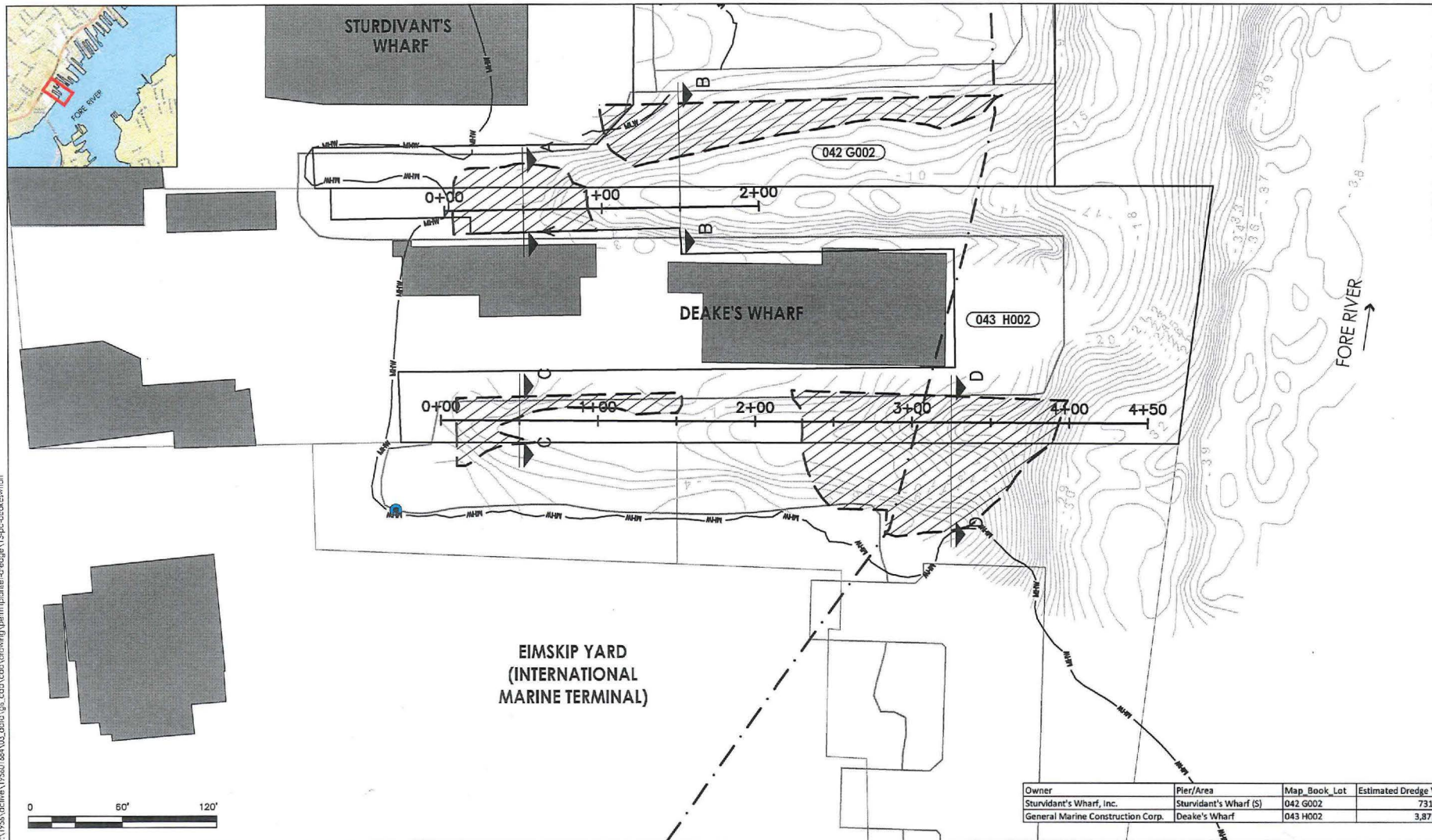
Revision
Date
2019.11.13

Reference Sheet
Figure No.

Portland Harbor Commission
Portland Harbor Waterfront Dredging
Portland and South Portland, Maine
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2019.11.13

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Legend

- 2- 1' BATHYMETRIC CONTOUR
- DREDGE AREA TAX MAP PARCEL LINE
- 042 G002 TAX MAP AND PARCEL NUMBER
- ESTIMATED DREDGE AREA
- EXISTING BUILDING/STRUCTURE
- APPROXIMATE SUBMERGED LIMITS REGULATORY LIMIT (1833, 1866, OR 1870)
- MLW APPROX. MEAN LOW WATER
- MHW APPROX. MEAN HIGH WATER
- STORMWATER OUTFALL

Client/Project

Portland Harbor
Commission
Portland Harbor
Dredge Project

Project No.
195601684

Title

Sturdivant's Wharf (S)/
Deake's Wharf Proposed
Dredge Plan View

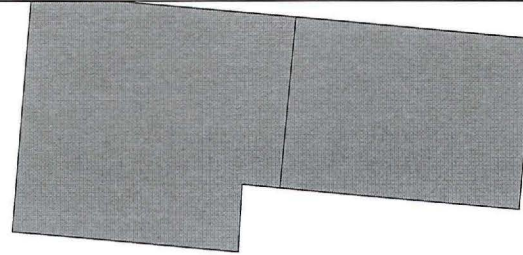
Revision

Reference Sheet

Date
2019.11.13

Figure No.

Portland Harbor Commission
Portland Harbor Waterfront Dredging
Portland and South Portland, Maine
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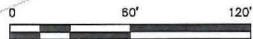


PORTLAND SHIPYARD

060 F003

059 A004

FORE RIVER



Owner	Pier/Area	Map Book Lot	Estimated Dredge Volume (c.y.)
New Yard LLC	Portland Shipyard	060 F003, 059 A004	3,361



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Legend

- 2- 1' BATHYMETRY CONTOUR
- - - DREDGE AREA TAX MAP PARCEL LINE
- 030 H001 TAX MAP AND PARCEL NUMBER
- ESTIMATED DREDGE AREA
- EXISTING BUILDING/STRUCTURE
- - - APPROXIMATE SUBMERGED LANDS REGULATORY LIMIT (1833, 1886, OR 1870)
- MLW - APPROX. MEAN LOW WATER
- MHW - APPROX. MEAN HIGH WATER
- STORMWATER OUTFALL

Client/Project

Portland Harbor
Commission
Portland Harbor
Dredge Project

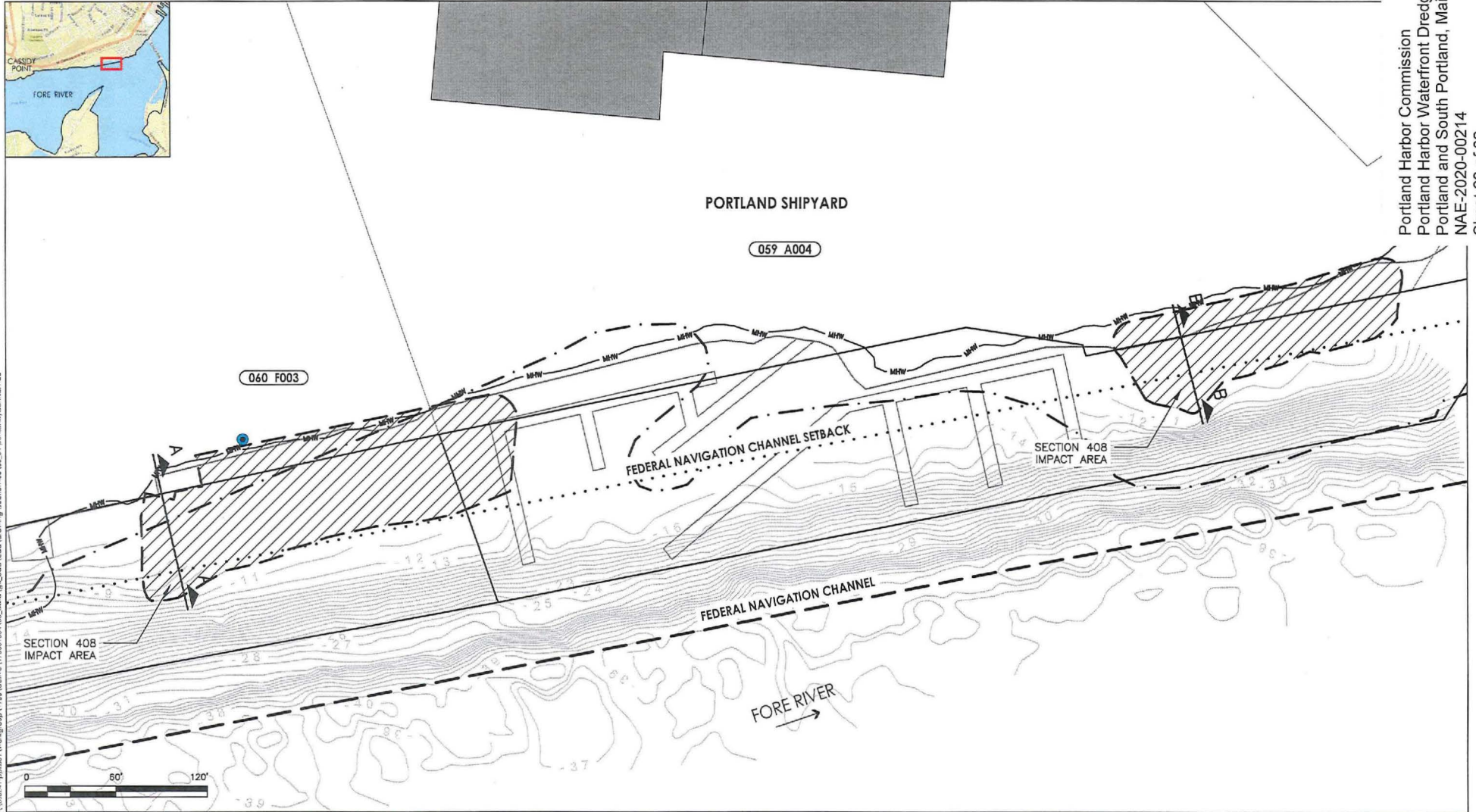
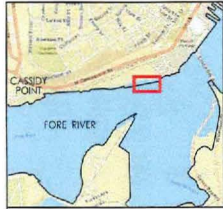
Project No.
195601684

Title

Portland Shipyard
Proposed Dredge
Plan View

Revision _____ Date 2019.11.13
Reference Sheet _____ Figure No. _____

Portland Harbor Commission
Portland Harbor Waterfront Dredging
Portland and South Portland, Maine
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Legend

- 2- 1' BATHYMETRY CONTOUR
- DREDGE AREA TAX MAP PARCEL LINE
- 030 F003 TAX MAP AND PARCEL NUMBER
- ESTIMATED DREDGE AREA
- EXISTING BUILDING/STRUCTURE
- APPROXIMATE SUBMERGED LANDS REGULATORY LIMIT (1833, 1856, OR 1870)
- MLW APPROX. MEAN LOW WATER
- MHW APPROX. MEAN HIGH WATER
- STORMWATER OUTFALL

Client/Project

Portland Harbor
Commission
Portland Harbor
Dredge Project
Section 408 Impacts

Project No.
195601208

Title

Impact Area 3 & 4
Portland Shipyard Proposed
Dredge Plan View

Revision

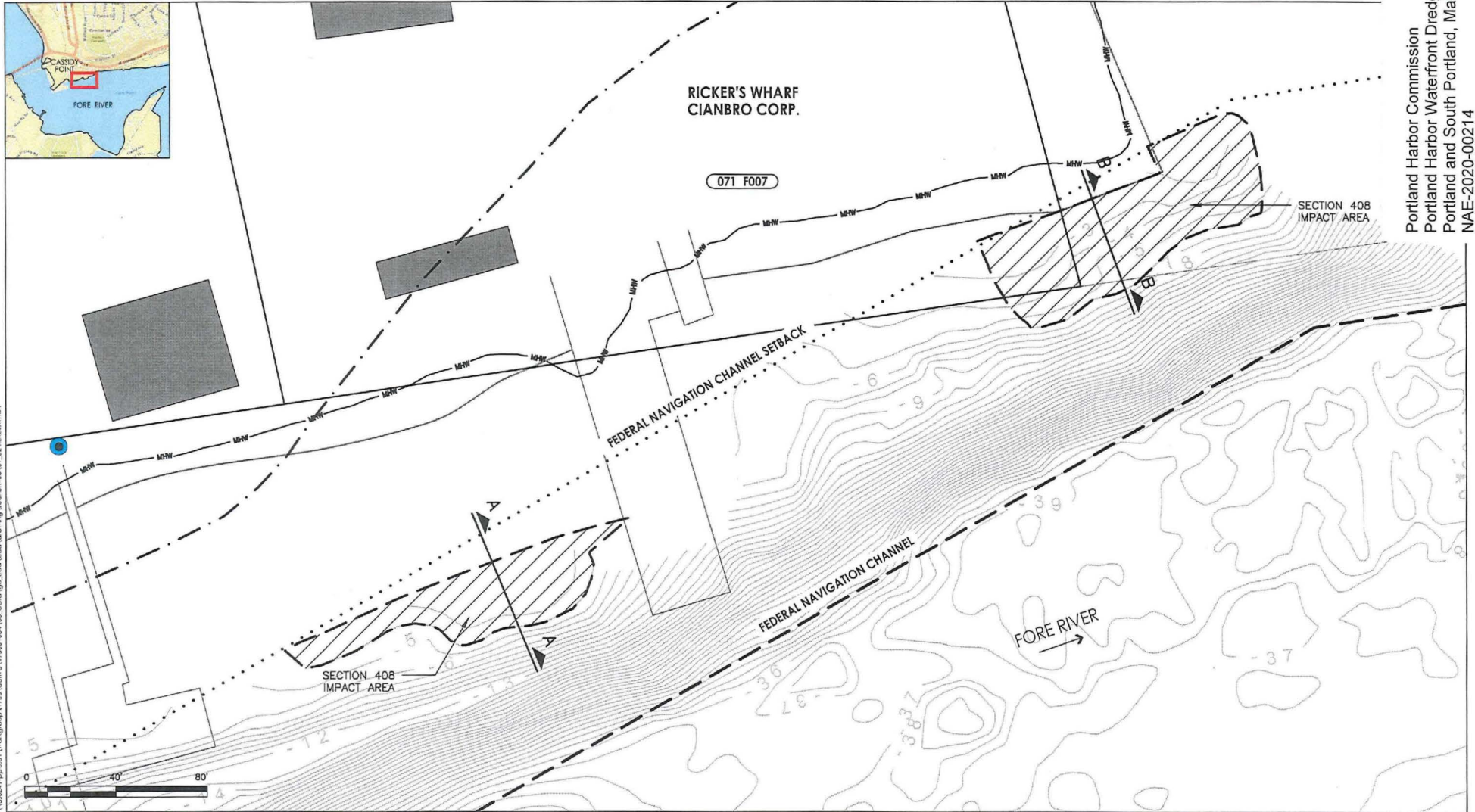
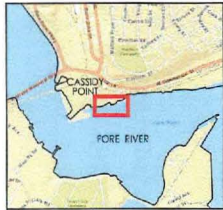
Reference Sheet

Date

2020.03.18

Figure No.

Portland Harbor Commission
Portland Harbor Waterfront Dredging
Portland and South Portland, Maine
NAE-2020-00214
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Legend

- 2- 1' BATHYMETRIC CONTOUR
- DREDGE AREA TAX MAP PARCEL LINE
- TAX MAP AND PARCEL NUMBER
- ESTIMATED DREDGE AREA
- EXISTING BUILDING/STRUCTURE
- APPROXIMATE SUBMERGED LANDS REGULATORY LIMIT (1833, 1865, OR 1870)
- MLW APPROX. MEAN LOW WATER
- MHW APPROX. MEAN HIGH WATER
- STORMWATER OUTFALL

Client/Project

Portland Harbor
Commission
Portland Harbor
Dredge Project
Section 408 Impacts
Project No.
195601208

Title

Impact Area 1 & 2
Ricker's Wharf Proposed
Dredge Plan View

Revision

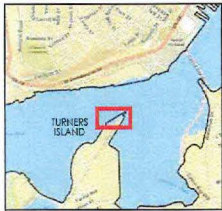
Reference Sheet

Date

2020.03.18

Figure No.

Portland Harbor Commission
Portland Harbor Waterfront Dredging
Portland and South Portland, Maine
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2020.03.18



FORE RIVER
→

PLAN NOTES:
1. BATHYMETRIC CONTOURS DERIVED FROM A JANUARY 2008 "EXISTING CONDITIONS PLAN" PRODUCED BY POST ROAD SURVEYING AND ARE APPROXIMATE.
2. TURNERS ISLAND DREDGE AREA INCLUDES 1:1 SIDE SLOPES PER INFORMATION PROVIDED BY OWNER.

0 70' 140'

TURNERS ISLAND

017*0000*007*

Owner	Pier/Area	Map Book Lot	Estimated Dredge Volume (c.y.)
Turners Island LLC	Turners Island	017*0000*007*	10,000



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Legend

- 2' — 1' BATHYMETRIC CONTOUR
- DREDGE AREA TAX MAP PARCEL LINE
- 03010001 TAX MAP AND PARCEL NUMBER
- ESTIMATED DREDGE AREA
- EXISTING BUILDING/STRUCTURE
- APPROXIMATE SUBMERGED LANDS REGULATORY LIMIT (1833, 1886, OR 1870)
- MLW — APPROX. MEAN LOW WATER
- MHW — APPROX. MEAN HIGH WATER
- STORMWATER OUTFALL

Client/Project
Portland Harbor
Commission
Portland Harbor
Dredge Project

Project No.
195601684

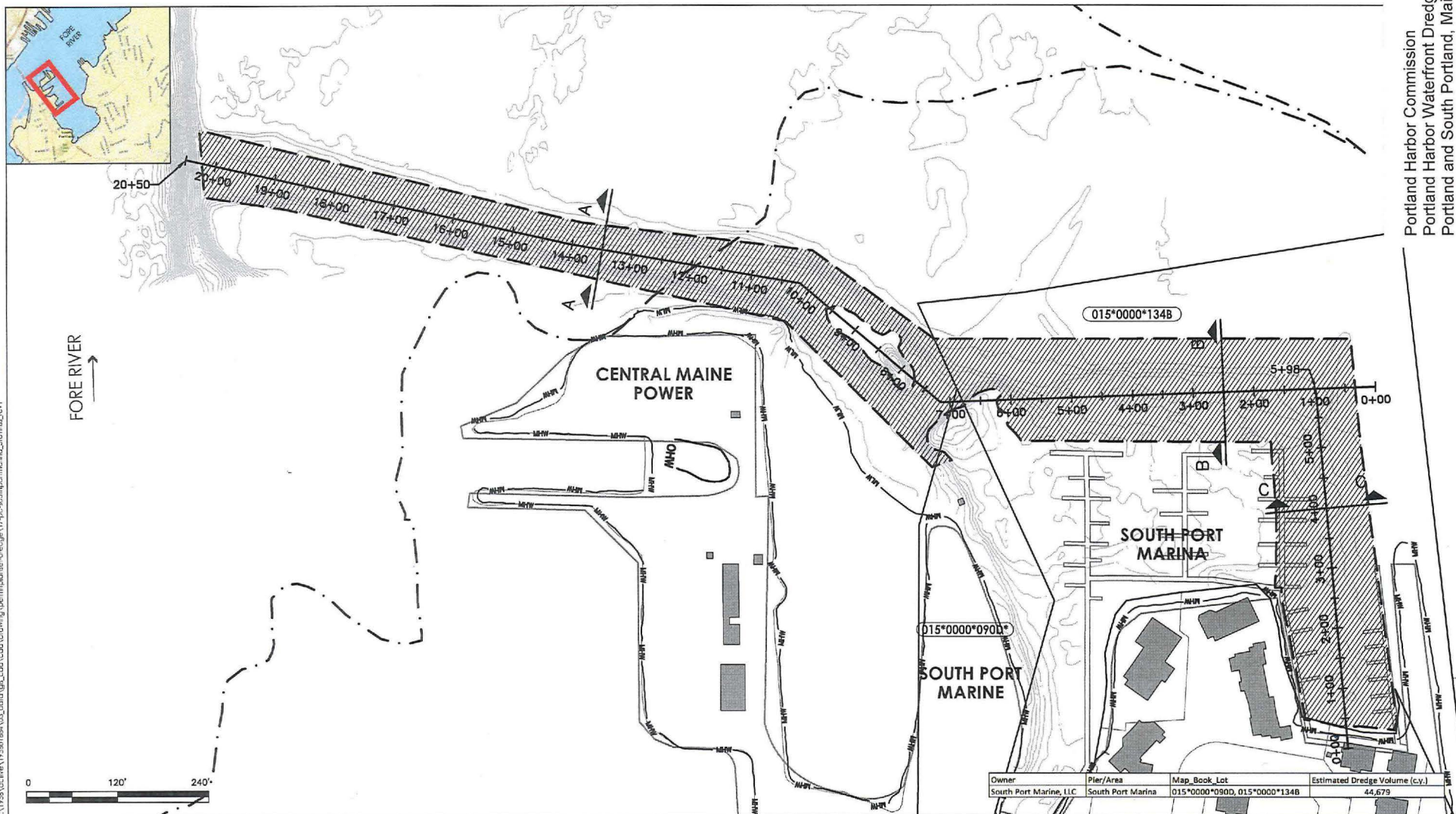
Title
Turners Island
Proposed Dredge
Plan View

Revision	Date
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Portland Harbor Waterfront Dredging
Portland and South Portland, Maine
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2019.11.13

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Legend

- 2- 1' BATHYMETRIC CONTOUR
- DREDGE AREA TAX MAP PARCEL LINE
- 03010001 TAX MAP AND PARCEL NUMBER
- ESTIMATED DREDGE AREA
- EXISTING BUILDING/STRUCTURE
- APPROXIMATE SUBMERGED LANDS REGULATORY LIMIT (1833, 1856, OR 1870)
- MLW APPROX. MEAN LOW WATER
- MHW APPROX. MEAN HIGH WATER
- STORMWATER OUTFALL

Client/Project

Portland Harbor
Commission
Portland Harbor
Dredge Project

Project No.
195601684

Title

South Port Marina
Proposed Dredge
Plan View

Revision

Reference Sheet

Date

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Figure No.

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Portland and South Portland, Maine
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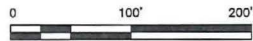


FORE RIVER

ASPASIA MARINA

ASPASIA

CENTERBOARD YACHT CLUB



Owner	Pier/Area	Map Book Lot	Estimated Dredge Volume (c.y.)
Near East Technological Service	Aspasia	006*0000*008	6,839
YC Realty, Inc.	Centerboard Yacht Club	008*0000*100	14,472



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Legend

- 2- 1' BATHYMETRIC CONTOUR
- DREDGE AREA TAX MAP PARCEL LINE
- (030 H201) TAX MAP AND PARCEL NUMBER
- ESTIMATED DREDGE AREA
- EXISTING BUILDING/STRUCTURE
- APPROXIMATE SUBMERGED LANDS REGULATORY LIMIT (1833, 1866, OR 1870)
- MLW APPROX. MEAN LOW WATER
- MHW APPROX. MEAN HIGH WATER
- STORMWATER OUTFALL

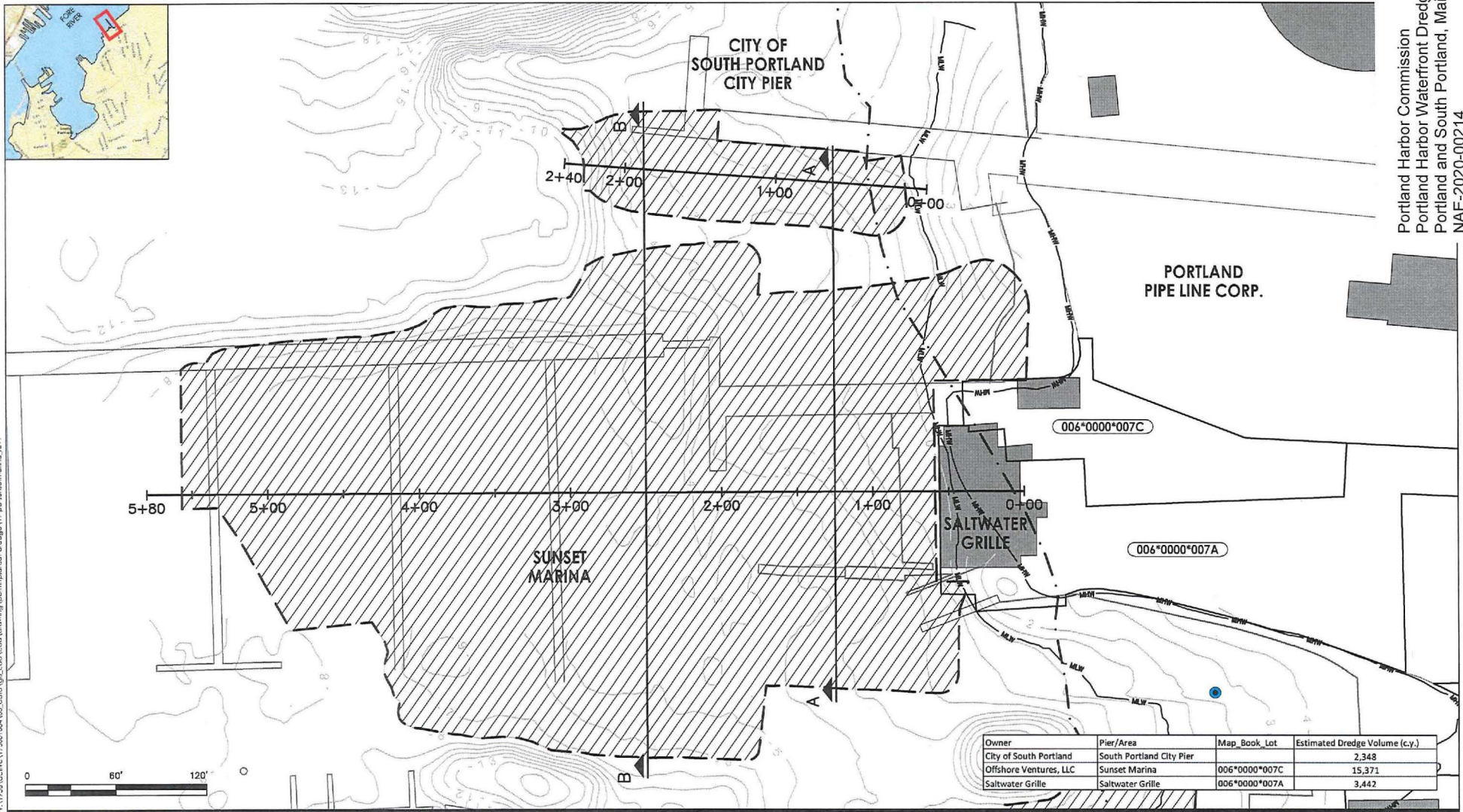
Client/Project
Portland Harbor
Commission
Portland Harbor
Dredge Project

Project No.
195601684

Centerboard & Aspasia
Marina Proposed Dredge
Plan View

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Portland Harbor Waterfront Dredging
Portland and South Portland, Maine
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Owner	Pier/Area	Map_Book_Lot	Estimated Dredge Volume (c.y.)
City of South Portland	South Portland City Pier		2,348
Offshore Ventures, LLC	Sunset Marina	006*0000*007C	15,371
Saltwater Grille	Saltwater Grille	006*0000*007A	3,442



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- Legend**
- 2- 1' BATHYMETRIC CONTOUR
 - DREDGE AREA TAX MAP PARCEL LINE
 - (030 1000) TAX MAP AND PARCEL NUMBER
 - ESTIMATED DREDGE AREA
 - EXISTING BUILDING/STRUCTURE
 - APPROXIMATE SUBMERGED LANDS REGULATORY LIMIT (1833, 1866, OR 1870)
 - MLW - APPROX. MEAN LOW WATER
 - MHW - APPROX. MEAN HIGH WATER
 - STORMWATER OUTFALL

Client/Project
Portland Harbor
Commission
Grille Proposed Dredge Plan
Dredge Project

Project No.
195601684

Title
South Portland City Pier &
Sunset Marina/Saltwater
Grille Proposed Dredge Plan
View

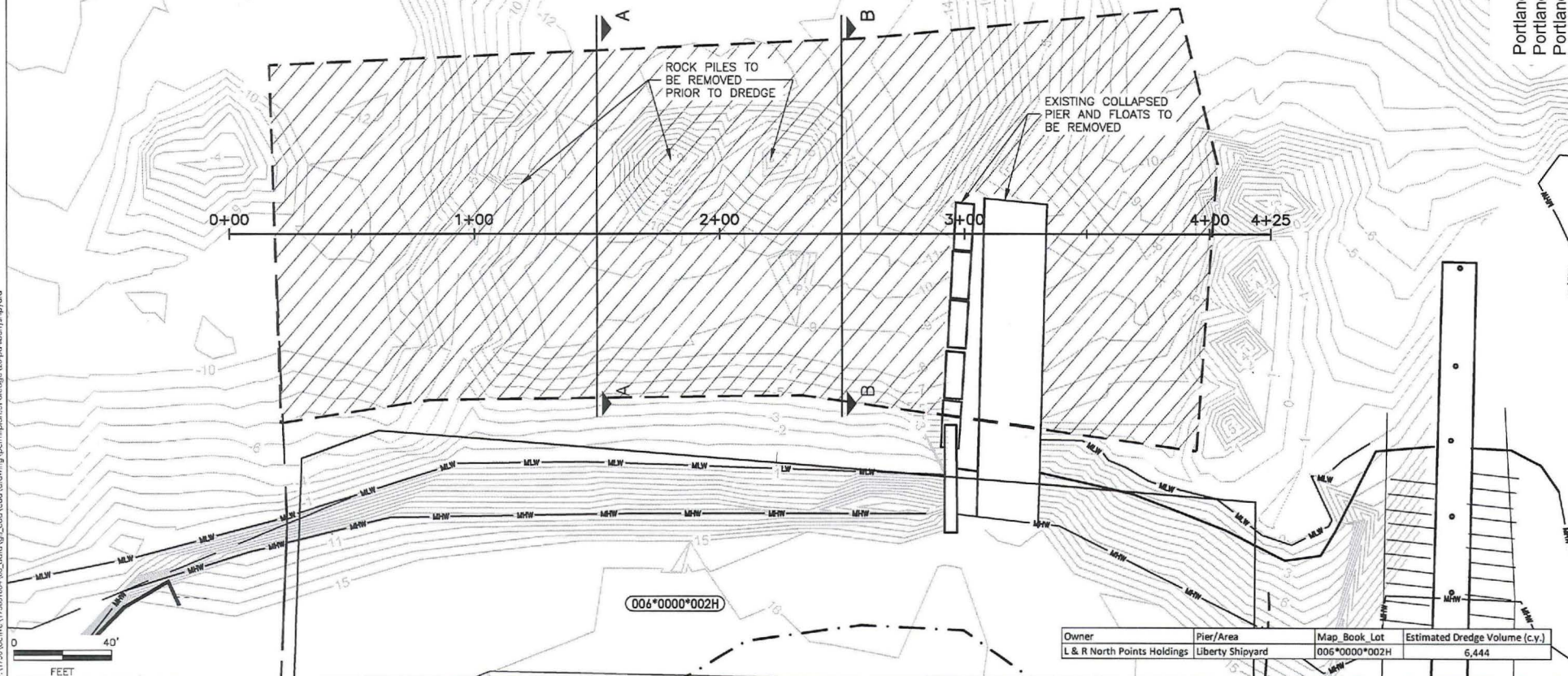
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Portland Harbor Waterfront Dredging
Portland and South Portland, Maine
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BATHYMETRIC CONTOURS PROVIDED BY TEC ASSOCIATES (SURVEY DATE 7/1/2019).



Owner	Pier/Area	Map Book Lot	Estimated Dredge Volume (c.y.)
L & R North Points Holdings	Liberty Shipyard	006*0000*002H	6,444



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Legend

- 2- 1' BATHYMETRIC CONTOUR
- DREDGE AREA TAX MAP PARCEL LINE
- 030 H091 TAX MAP AND PARCEL NUMBER
- ESTIMATED DREDGE AREA
- EXISTING BUILDING/STRUCTURE
- APPROXIMATE SUBMERGED LANDS REGULATORY LIMIT (1833, 1866, OR 1870)
- MLW --- APPROX. MEAN LOW WATER
- MHW --- APPROX. MEAN HIGH WATER
- STORMWATER OUTFALL

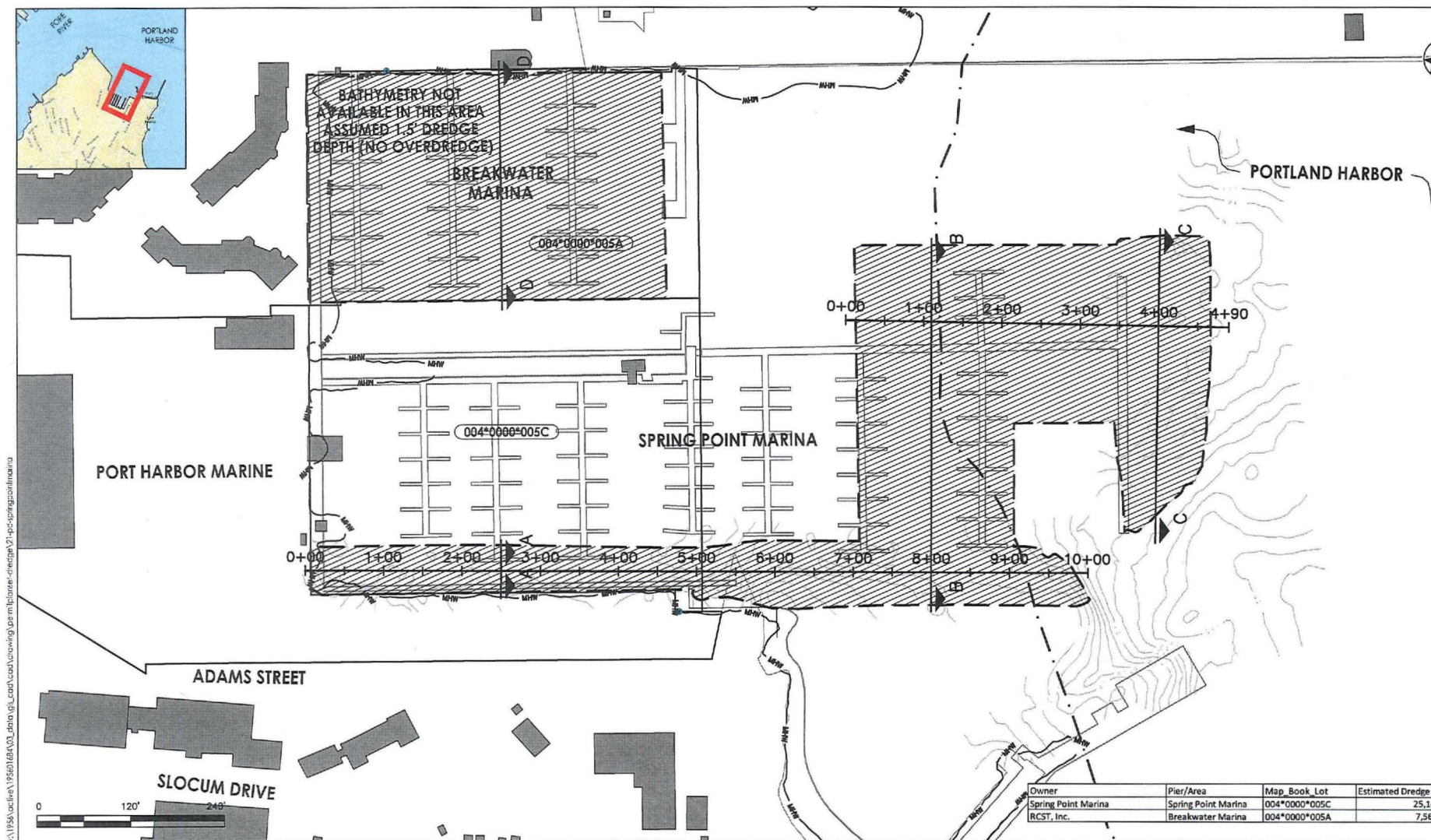
Client/Project
Portland Harbor
Commission
Portland Harbor
Dredge Project

Project No.
195601684

Title
Liberty Shipyard
Proposed Dredge
Plan View

Revision	Date
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Portland Harbor Waterfront Dredging
Portland and South Portland, Maine
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Legend

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- DREDGE AREA TAX MAP PARCEL LINE
- 030 11001 TAX MAP AND PARCEL NUMBER
- ESTIMATED DREDGE AREA
- EXISTING BUILDING/STRUCTURE
- APPROXIMATE SUBMERGED LANDS REGULATORY LIMIT (1633, 1865, OR 1870)
- MLW APPROX. MEAN LOW WATER
- MHW APPROX. MEAN HIGH WATER
- STORMWATER OUTFALL

Client/Project
Portland Harbor Commission
Portland Harbor Dredge Project

Title
Breakwater/Spring Point Marina Proposed Dredge Plan View

Revision
Date: 2019.11.13
Figure No.

Reference Sheet

Owner
Spring Point Marina
RCST, Inc.

Pier/Area
Spring Point Marina
Breakwater Marina

Map_Book_Lot
004*0000*005C
004*0000*005A

Estimated Dredge Volume (c.y.)
25,144
7,565

Project No.
195601684

Portland Harbor Commission
Portland Harbor Waterfront Dredging
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