



US Army Corps
of Engineers®
New England District

U.S. ARMY

PUBLIC NOTICE

Comment Period Begins: November 28, 2023

Comment Period Ends: December 28, 2023

File Number: NAE-2023-00927

In Reply Refer to: Charles Farris

Michael Hicks

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The District Engineer has received a permit application to conduct work in waters of the United States from NH Division of Ports and Harbors, 555 Market Street, Suite 1, Portsmouth, NH 03801. This work is located off Market Street, immediately south of the Sarah Mildred Long Bridge (US Route 1 Bypass), in Portsmouth, New Hampshire. The site coordinates are: Latitude 43.084373° N, Longitude -70.761500° W.

The work involves:

1. Dredging – The dredging of approximately 61,450 square feet / 325 linear feet of the river bottom of the Piscataqua River. The proposed dredging will remove approximately 16,000 cubic yards (cy) of sediments from the Piscataqua River with a maximum allowable over-dredge volume of 1,800 cy. The project also requires blasting and the removal of approximately 800 cy of bedrock. A Turbidity Control and Monitoring Plan has been developed and will be implemented during construction to further ensure the protection of water quality and minimize impacts to fish and wildlife;
2. Wharf Extensions and Floating Dock – Proposed north and south wharf extensions and floating dock that will involve 8,770 square feet, 7,810 square feet, and 820 square feet of new pile-supported structures within the Piscataqua River respectively, for a total of 17,400 square feet. The proposed structures are not located within submerged aquatic vegetation, special aquatic sites, or shellfish beds;
3. Placement of Fill in Waters of the United States – The placement of approximately 6,300 square feet of riprap (Class V/VII) along the shoreline in the vicinity of the north and south wharf extensions (only 600 square feet of riprap is located outside the limits of the proposed wharf extensions). The proposed riprap will be installed overtop and within the footprint of existing riprap. Riprap will not be placed in special aquatic sites, submerged aquatic vegetation, or shellfish beds. Because the placement of riprap has independent utility and is able to function and meet its purpose independent of the total project, it will be evaluated under GP 2 of General Permit No. NAE-2022-00849. The authorization of placement of riprap under GP 2 will be with the understanding that it will not prejudice the USACE decision on the individual permit for the rest of the project, and

the individual permit evaluation will include an analysis of the impacts of the entire project, including related activities authorized by GP 2;

4. Ocean Disposal of Dredged Material – The offshore disposal of a maximum of 18,600 cy of dredged material (including sediments and bedrock) at the Isles of Shoals North Dredged Material Disposal Site (IOSN), located approximately 15 nautical miles east of Portsmouth, NH.

For the dredging to be performed, the U.S. Army Corps of Engineers, New England District (USACE), has determined that the dredge of approximately 26,300 cy of predominantly coarse grained material including approximately 800 cy of rock from shoaled areas totalling about 3 acres within the property's vessel berth, located in Portsmouth, NH was suitable for disposal at the IOSN. The dredging work in this proposal is for the dredging of 18,600 cy, which is included within the 26,300 cy of material found to be acceptable for disposal at the IOSN. The shoaled areas will be mechanically dredged to the authorized depth of -36 feet at mean lower low water (MLLW) plus allowable overdepth of 1 foot.

The purpose of this project is to replace the lost functionality of the barge wharf by incorporating that functionality into the main wharf. This project is part of, and necessitated by, the replacement of the Sarah Mildred Long (SML) Bridge carrying the US Route 1 Bypass over the Piscataqua River. The Market Street Marine Terminal is adjacent to the SML Bridge. Until recently, the bridge divided the port between the main wharf and the barge wharf. The bridge was recently replaced and a new alignment was selected to better accommodate current and future marine navigation. The new bridge now passes through the northwestern end of the barge wharf. The new alignment required partial demolition of the wharf, blocked access to the boat ramp, and substantially reduced the berthing length along the barge wharf. The Federal Highway Administration (FHWA) is funding the functional replacement of the barge wharf to compensate for impacts caused by the new alignment of the SML Bridge.

The work is shown on the enclosed plans entitled "PEASE DEVELOPMENT AUTHORITY, Division of Ports and Harbors, Portsmouth, New Hampshire, MARKET STREET MARINE TERMINAL FUNCTIONAL REPLACEMENT BARGE DOCK ENVIRONMENTAL IMPACT PLANS" on eighteen sheets, and dated "JULY 2023, REVISED OCTOBER 2023".

AUTHORITY

Permits are required pursuant to:

- Section 10 of the Rivers and Harbors Act of 1899
- Section 404 of the Clean Water Act
- Section 103 of the Marine Protection, Research and Sanctuaries Act.
- 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 including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which reasonably may be expected to accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership and, in general, the needs and welfare of the people.

Because the proposed activity involves 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 102(a) of the Marine Protection Research and Sanctuaries Act of 1972 (MPRSA) (40 CFR parts 220 to 229), as amended.

The activities proposed herein will also require permission from the USACE pursuant to 33 U.S.C. 408 because it will alter or temporarily or permanently occupy or use a USACE federally authorized Civil Works project known as Portsmouth Harbor and Piscataqua River Federal Navigation Project. The proposed alteration involves dredging a section of the Piscataqua River, adjacent to the FNP. A permit for the dredging shall not be granted until the Section 408 permission is issued. Through this public notice we are soliciting information necessary to inform the USACE evaluation and review.

Testing Information 2023 Suitability determination

The dredged material has undergone physical analysis, no chemical analysis was required due to the physical characteristics of the dredged material and current environment of the Piscataqua River. It is our determination that the material is acceptable for disposal at the IOSN disposal site.

Any permit issued for this project will include special conditions requiring scows to come to a complete stop when disposing of the material at the disposal site. There will also be a time of year restriction included as a special condition which prohibits dredging during ecologically sensitive times of year. The duration of disposal activities for the material at the IOSN disposal site is approximately 3 months.

Isles of Shoals North Dredged Material Disposal Site

The IOSN is located approximately 24.5 kilometers (km) (15 nautical miles) east of Portsmouth, New Hampshire, in the Gulf of Maine. The IOSN is circular in shape and approximately 2.5 km in diameter. The IOSN has been designated for use by the Administrator, EPA, pursuant to Section 102(c) of the MPRSA. See 40 CFR 228.15(b)(7). EPA Region 1 manages the IOSN. Studies show that the site is a low energy environment such that sediment deposited at this location will remain within the site's boundaries. The surficial sediments at the site are predominately soft, fine-grained silts and clays. The seafloor within the site is generally a smooth surface with topographic highs present outside the western, northern, and southeastern, boundaries of the site. Dredged material has been discharged at the disposal site three times since its designation in October 2020. One discharge was for a private project from Maine, which disposed of 2,750 cy of material in 2021. The other two discharges were for Federal Navigation Projects, both from New Hampshire. One of the projects disposed of 57,635 cy of dredged material at the site during the 2020-2021 dredging season. The other project disposed of 735,589 cubic yards of dredged material at the site during the 2022 – 2023 dredging season. Previous research has shown that areas outside the disposal site have not been found to be affected by sediment deposited within the site. There have not been any documented non-dredged material disposals at the IOSN.

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 (NMFS) 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 61,450 sq ft (sf) of EFH. Habitat at this site can be described as sandy/silty sediments, both sub and intertidal, along with adjoining beach habitat. Loss of this habitat may adversely affect species that use these waters and substrate.

This project will have an adverse effect on 1.82 acres of EFH. This habitat consists of sandy/silty bottom sediments and rocky ledge materials. Loss of this habitat may adversely affect species that use these waters and substrate. A Biological Assessment and EFH Assessment were completed (updated) on 6/4/2019 and consultation was completed on 8/22/2019 with the following recommendations by NMFS to be incorporated into the action: A Blasting Plan to be provided to NMFS a minimum of 21 days prior to blasting. Use of a small, mobile vessel for the fish detection and startle system, sonar and fisheries and marine mammal observer to be deployed and the preparation of a plan to enumerate, collect, ID, and report on any fish kills that occur during blasting. A report will be sent to NMFS as soon as possible after each day of blasting (and no more than 7 days). If fish kills exceed 100 fish, approximately, NMFS

will be notified within 24 hours and before the next scheduled blasting so that alternative measures can be assessed to reduce future fish kills, as necessary. All efforts will be made to adhere to a work window from November 15 to February 15 for underwater blasting, and to conduct in water work in December and January to the extent possible. Compensatory Mitigation to offset the permanent loss of 1,720 sf of habitat from the proposed piles for the wharf extensions and floating dock, as well as shading impacts to approximately 25,000 sf from the proposed wharf, to be provided via the NH ILF program.

NATIONAL HISTORIC PRESERVATION ACT

The FHWA, as lead agency, consulted with the New Hampshire State Historic Preservation Officer (NHSPO) coordination under Section 106 of the National Historic Preservation Act (NHPA). Consultation concluded on 04/04/2019 with the NHSPO concurring that there will be no adverse effect on historic or archaeological properties due to this action and no further NHPA coordination is required. The action will be coordinated with the Wampanoag Tribe of Gay head (Aquinnah) for comment on the project.

ENDANGERED SPECIES CONSULTATION

The USACE 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 (ESA) as amended. It is our 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 nor affect listed species or their critical habitat. Coordination with NMFS and/or U.S. Fish and Wildlife Service (USFWS) on listed species under their jurisdiction and the ESA consultation has been concluded. The FHWA, as lead agency, completed ESA consultation with NMFS on 06/14/2019 with concurrence that the action is not likely to adversely affect any NMFS ESA-listed species or designated critical habitat and no further consultation with respect to these species is required pursuant to Section 7 of the ESA. The FHWA, as lead agency, completed ESA consultation with the USFWS on 03/30/2023 for the species, Roseate Tern and Northern Long-eared Bat potentially present in the project area with the concurrence that there will be no effect due to the action on the Roseate Tern and Northern Long-eared Bat. No further coordination is required for these species.

OTHER GOVERNMENT AUTHORIZATIONS

The State of New Hampshire, New Hampshire Coastal Program, concurs that this activity complies with the enforceable policies of the New Hampshire's Federally approved coastal management program.

The following authorizations have been applied for, or have been, or will be obtained:

- (x) Permit, license or assent from State.
- (x) Permit from local wetland agency or conservation commission.

COMMENTS

The USACE is soliciting comments from the public; Federal, state, and local agencies and officials; Indian Tribes; and other interested parties so the Corps can consider and evaluate the impacts of this proposed activity. The USACE 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. People submitting comments are advised that all comments received will be available for public review in their entirety and will be considered a matter of public record.

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 (Charles Farris) at (978) 318-8336, (800) 343-4789 or (800) 362-4367, if calling from within Massachusetts and Michael Hicks at 978-318-8157 and Christine Comeau at (918) 318-8705.

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 USACE 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.

1

THIS NOTICE IS NOT AN AUTHORIZATION TO DO ANY WORK.

CENAE-R
File No. NAE-2023-00927

**Frank J. Del Giudice
Chief, NH & VT Section
Regulatory Division**

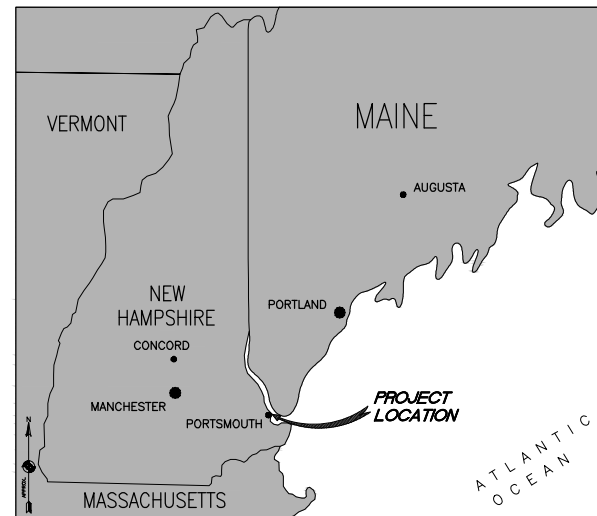
If you would prefer not to continue receiving Public Notices by email, please contact Ms. Leslie Martin at (978) 318-8688 or e-mail her at Leslie.Martin@usace.army.mil.

PEASE DEVELOPMENT AUTHORITY

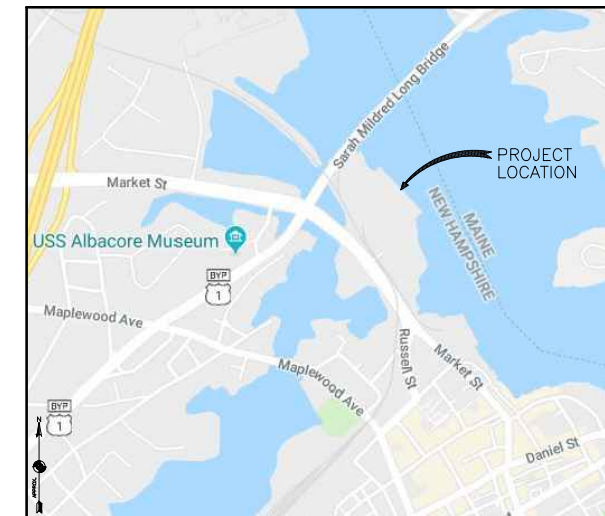
Division of Ports and Harbors Portsmouth, New Hampshire

MARKET STREET MARINE TERMINAL FUNCTIONAL REPLACEMENT BARGE DOCK ENVIRONMENTAL IMPACT PLANS

JULY 2023
REVISED OCTOBER 2023



VICINITY MAP
N.T.S.

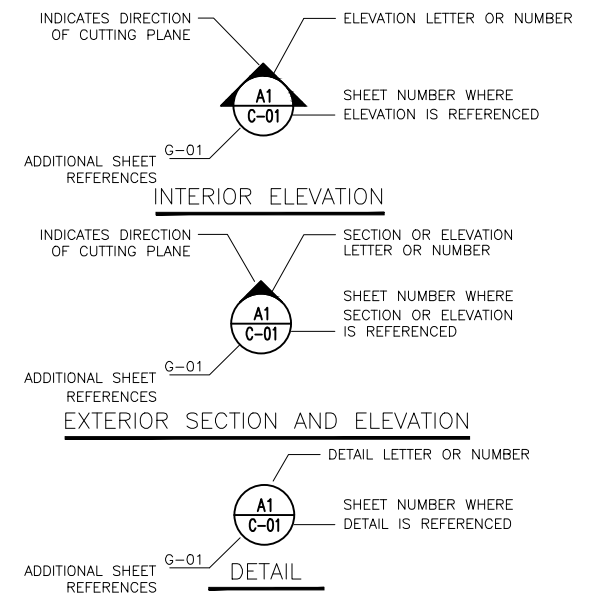


LOCATION MAP
N.T.S.

LIST OF DRAWINGS

NUMBER	NAME	TITLE
<u>GENERAL</u>		
1	G-001	TITLE SHEET
2	G-002	GENERAL NOTES
3	G-003	SITE PHOTOS - 01
4	G-004	SITE PHOTOS - 02
5	G-005	SITE PHOTOS - 03
6	G-101	EXISTING CONDITIONS PLAN
7	G-102	PROJECT OVERVIEW PLAN
<u>CIVIL</u>		
8	C-101	WETLAND IMPACT PLAN
9	C-102	SHORELAND IMPACT PLAN
10	C-103	GENERAL SECTIONS
11	C-104	DREDGING PLAN
12	C-105	DREDGE SECTIONS
13	C-106	RIPRAP PLAN
14	C-107	RIPRAP SECTIONS
<u>STRUCTURAL</u>		
15	S-101	PILE PLAN
16	S-102	PILE SECTION AND DETAILS
17	S-103	FRAMING PLAN
18	S-104	FLOATING DOCK PLAN AND DETAILS

ELEVATION, SECTION OR DETAIL SYMBOLS



603.766.1970 inquiry@peasedevelopmentauthority.com		DATE
Appledore Marine Engineering, LLC		REVISION
800 State St, Suite E Portsmouth New Hampshire 03801		DESCRIPTION
SUBMITTED BY:		BY
DRAWN BY:		DATE
CHECKED BY:		REVISION
SCALE: AS SHOWN		DESCRIPTION
PROJECT No.: 5213		DATE
CAD DWG FILE: 5213_dwg_01_G-001.dwg		REVISION
DESIGNED BY: SMD		DESCRIPTION
DRAWN BY: KMV		DATE
CHECKED BY: NJE		REVISION
SCALE: AS SHOWN		DESCRIPTION
G-001		DATE
SHEET 1 OF 18		REVISION

GENERAL NOTES:

1. THE DRAWINGS AND SPECIFICATIONS FORM A PART OF THE CONTRACT DOCUMENTS. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. IN THE EVENT OF A CONFLICT BETWEEN THE SPECIFICATIONS AND THE DRAWINGS, THE SPECIFICATIONS SHALL TAKE PRECEDENCE. A COPY OF THE DRAWINGS AND SPECIFICATIONS MUST BE KEPT ONSITE AT ALL TIMES DURING THE PROJECT.
2. COORDINATE ALL WORK WITH FACILITY PERSONNEL AND PORT OPERATIONS ON A DAILY BASIS. THE CONSTRUCTION WORK SHALL NOT INTERFERE WITH ONGOING OPERATIONS. SCHEDULE AND COORDINATE ALL WORK, INCLUDING ALLOWABLE WORK WINDOWS, WITH THE OWNER. MAINTAIN THE WORK SITE TO THE SATISFACTION OF THE OWNER.
3. COORDINATE MATERIAL STORAGE AND LAYDOWN AREAS WITH THE OWNER.
4. COORDINATE ALL BARGE ACCESS AND MOORING LOCATIONS WITH THE OWNER.
5. DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR JOB SITE SAFETY. DETERMINE CONSTRUCTION PROCEDURES AND SEQUENCE TO ENSURE THE SAFETY OF THE FACILITIES AND THEIR COMPONENTS DURING ALL PHASES OF CONSTRUCTION. THIS INCLUDES THE ADDITION OF NECESSARY SHORING, SHEETING, TEMPORARY BRACING, GUYS OR TIEDOWNS. SUCH MATERIAL SHALL REMAIN THE PROPERTY OF THE CONTRACTOR AND BE REMOVED FROM THE OWNER'S PROPERTY AFTER COMPLETION OF THE PROJECT. ALL PROPOSED STAGING AREAS SHALL BE COORDINATED WITH THE OWNER BEFORE STARTING WORK. TEMPORARY CONSTRUCTION STAGING/STORAGE AREA SHALL BE RESTORED TO ORIGINAL OR BETTER CONDITION UPON COMPLETION OF THE PROJECT.
6. DIMENSIONS AND DETAILS OF THE EXISTING CONSTRUCTION ARE FROM LIMITED ARCHIVE DRAWINGS AND FIELD INVESTIGATIONS. CHECK AND VERIFY ALL DIMENSIONS AND DETAILS OF THE EXISTING CONSTRUCTION PRIOR TO COMMENCING CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER BEFORE ORDERING MATERIALS AND PROCEEDING WITH THE AFFECTED PART OF THE WORK.
7. EXISTING CONDITIONS DRAWINGS ARE INTENDED TO PROVIDE GENERAL OVERVIEW OF STRUCTURES BUT DO NOT INCLUDE ALL APPURTENANCES AND CONDITIONS.
8. METHODS OF DEMOLITION, CONSTRUCTION, AND ERECTION ARE THE CONTRACTOR'S RESPONSIBILITY UNLESS OTHERWISE SPECIFIED.
9. PREVENT ANY DISTURBANCE OR DAMAGE TO EXISTING STRUCTURES.
10. CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGE DONE TO EXISTING STRUCTURES AND VESSELS AS A RESULT OF PERFORMING THE WORK.
11. AT THE END OF EACH WORKING DAY, THE CONSTRUCTION SITE MUST BE LEFT IN A NEAT AND CLEAN CONDITION.
12. COMPLY WITH ALL APPLICABLE O.S.H.A REGULATIONS AND SAFETY REQUIREMENTS.
13. REPORT SPILLS AND LEAKS OR OIL OR OTHER HAZARDOUS SUBSTANCES (IE OIL, ANTIFREEZE, CHEMICALS, ETC.) OCCURRING DURING THE PERFORMANCE OF THIS CONTRACT IMMEDIATELY UPON DISCOVERY, REGARDLESS OF THE QUANTITY.
14. THE OWNER WILL CHARGE TO THE CONTRACTOR ANY ADDITIONAL COSTS OF INSPECTION OR TESTING WHEN PRIOR REJECTION MAKES REINSPECTION OR RETESTING NECESSARY.

REFERENCES AND STANDARDS:

1. AMERICAN CONCRETE INSTITUTE (ACI) BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, 2019 (ACI 318-19)
2. AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) MANUAL OF STEEL CONSTRUCTION, 16TH EDITION, 2022 (AISC-16)
3. AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE) MINIMUM DESIGN LOADS FOR BUILDING AND OTHER STRUCTURES, 2022 (ASCE 7-22)
4. ASCE SEISMIC DESIGN OF PIERS & WHARVES, 2014 (ASCE 61-14)
5. DEPARTMENT OF DEFENSE UNIFIED FACILITIES CRITERIA (UFC) DESIGN: PIERS AND WHARVES, 2017 (UFC 4-152-01)

DESIGN CRITERIA:

THE NORTH AND SOUTH WHARF EXTENSIONS HAVE BEEN DESIGNED AND ANALYZED FOR THE FOLLOWING LOADS:

DEAD LOAD: ACTUAL WEIGHT OF THE STRUCTURE

LIVE LOAD:

1. VEHICLE AND EQUIPMENT
 - a. 1,000 PSF UNIFORM LIVE LOAD
 - b. 250 TON CRAWLER CRANE (MAX PICK 55 TONS)
2. DESIGN VESSEL
 - a. 750 FOOT LOA
 - b. 35 FOOT DRAFT
 - c. 63,000 TON DISPLACEMENT
3. MOORING FITTINGS
 - a. 100 TON BOLLARD
 - b. 42" CLEAT (25 TON)

UTILITIES NOTES:

1. THE EXACT SIZE & LOCATION OF ALL EXISTING UTILITIES IMPACTED BY THE WORK SHALL BE FIELD VERIFIED PRIOR TO START OF CONSTRUCTION. NOTIFY "DIG SAFE" (1-888-344-7233) AT LEAST 14 CALENDAR DAYS PRIOR TO COMMENCEMENT OF GROUND PENETRATING ACTIVITY.
2. TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE OWNER AT THE CONTRACTOR'S EXPENSE. NOTIFY THE OWNER A MINIMUM OF 5 DAYS IN ADVANCE OF ANY OUTAGES.

ENVIRONMENTAL CONTROL NOTES:

1. THIS PROJECT REQUIRES THE IMPLEMENTATION OF A BEST MANAGEMENT PRACTICES PLAN (BMP) DURING ALL CONSTRUCTION WORK TO PREVENT/MINIMIZE ENVIRONMENTAL IMPACTS DURING THE CONSTRUCTION ACTIVITY.
2. ENVIRONMENTAL CONTROLS MUST CONFORM TO ALL STATE, LOCAL, AND FEDERAL REGULATIONS AND PERMITS. ENVIRONMENTAL CONTROLS SHALL INCLUDE BUT NOT BE LIMITED TO MEASURES TO CONTROL TURBIDITY, PH, AND DUST.
3. A COPY OF ALL PERMITS MUST BE POSTED ON SITE DURING CONSTRUCTION IN A PROMINENT LOCATION VISIBLE TO INSPECTING PERSONNEL.
4. USE NETS, TARPS, WORK PLATFORMS, OR OTHER APPROVED EQUIVALENT MEANS TO PREVENT DEBRIS FROM FALLING INTO THE RIVER. REMOVE DEBRIS THAT HAS FALLEN INTO THE RIVER. THE OWNER MAY CONDUCT UNDERWATER INSPECTIONS TO ENSURE THAT ALL DEMOLITION AND CONSTRUCTION DEBRIS HAS BEEN REMOVED PRIOR TO DEMOBILIZING.
5. STORAGE, FUELING AND LUBRICATION OF EQUIPMENT AND MOTOR VEHICLES MUST BE CONDUCTED IN A MANNER THAT AFFORDS THE MAXIMUM PROTECTION AGAINST SPILL AND EVAPORATION. FUEL, LUBRICANTS AND OIL MUST BE MANAGED AND STORED IN ACCORDANCE WITH ALL FEDERAL, STATE, REGIONAL, AND LOCAL LAWS AND REGULATIONS. THERE SHALL BE NO STORAGE OF FUEL ON THE PROJECT SITE. FUEL MUST BE BROUGHT TO THE PROJECT SITE AS NEEDED. EQUIPMENT OPERATION, ACTIVITIES, OR PROCESSES PERFORMED BY THE CONTRACTOR SHALL BE IN ACCORDANCE WITH ALL FEDERAL AND STATE AIR EMISSION AND PERFORMANCE LAWS AND STANDARDS.
6. ALL PILE DRIVING MUST OCCUR DURING DAYLIGHT HOURS AND MUST FOLLOW ALL RESTRICTIONS REQUIRED BY THE APPLICABLE FEDERAL, STATE, AND LOCAL ENVIRONMENTAL REGULATIONS. PILE DRIVING IS NOT PERMITTED FROM APRIL 1 THROUGH JUNE 30.
7. DREDGING MUST OCCUR BETWEEN NOVEMBER 15 AND MARCH 15.

SURVEY CONTROL NOTES:

1. MAINTAIN ADEQUATE SURVEY CONTROL AT ALL TIMES TO ESTABLISH AND MAINTAIN ALL LINES AND ELEVATIONS.
2. HORIZONTAL DATUM BASED ON NAD 1983, NEW HAMPSHIRE STATE PLANE (CONUS) ZONE-NH 2800.
3. ELEVATIONS ARE IN FEET BASED ON MEAN LOWER LOW WATER (MLLW) PROJECT DATUM. TIDAL ELEVATIONS ARE BASED ON THE 1983-2001 TIDAL EPOCH AND NOAA TIDE STATION 8419870 SEAVEY ISLAND, MAINE.
4. TOPOGRAPHIC SURVEY PERFORMED BY DOUCET SURVEY. IN MAY AND JULY 2018 USING VARIOUS SURVEY METHODS. FEATURES SHOWN CAN ONLY BE CONSIDERED INDICATIVE OF CONDITIONS EXISTING AT THAT TIME.
5. HYDROGRAPHIC SURVEY PERFORMED BY STEELE ASSOCIATES IN DECEMBER 2022 USING VARIOUS SURVEY METHODS. FEATURES SHOWN CAN ONLY BE CONSIDERED INDICATIVE OF CONDITIONS EXISTING AT THAT TIME.

ABBREVIATIONS

APPROX	APPROXIMATE
DIA, Ø	DIAMETER
℄	BASELINE
EA	EACH
EL	ELEVATION IN FEET
EQ	EQUAL(LY)
HOTL	HIGHEST OBSERVABLE TIDE LINE
IN	INCH(S)
MHW	MEAN HIGH WATER
MHHW	MEAN HIGHER HIGH WATER
MIN	MINIMUM
MLLW	MEAN LOWER LOW WATER
MLW	MEAN LOW WATER
NAVD88	NATIONAL VERTICAL DATUM 1988
NTS	NOT TO SCALE
OC	ON CENTER
PSF	POUNDS PER SQUARE FOOT
SQ	SQUARE
SSP	STEEL SHEET PILE
TYP	TYPICAL

603.766.1010
inquiry@appledoremarine.com
Appledore Marine Engineering, LLC
800 State St, Suite E
Portsmouth New Hampshire 03801

PEASE DEVELOPMENT AUTHORITY
DIVISION OF PORTS AND HARBORS, 555 MARKET STREET, PORTSMOUTH, NH
MARKET STREET MARINE TERMINAL
FUNCTIONAL REPLACEMENT BARGE DOCK

PROJECT No.: 5213
CAD DWG FILE: S213_dwg_01_6-001.dwg
DESIGNED BY: SIND
DRAWN BY: KMW
CHECKED BY: NJE
SCALE: AS SHOWN

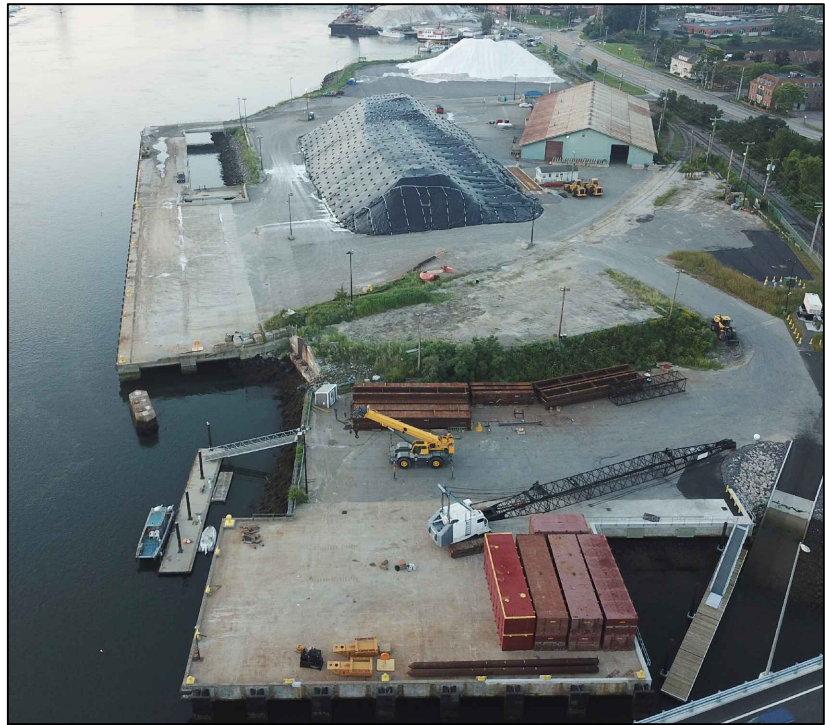
G-002
SHEET 2 OF 18

REVISION	DATE	DESCRIPTION	BY



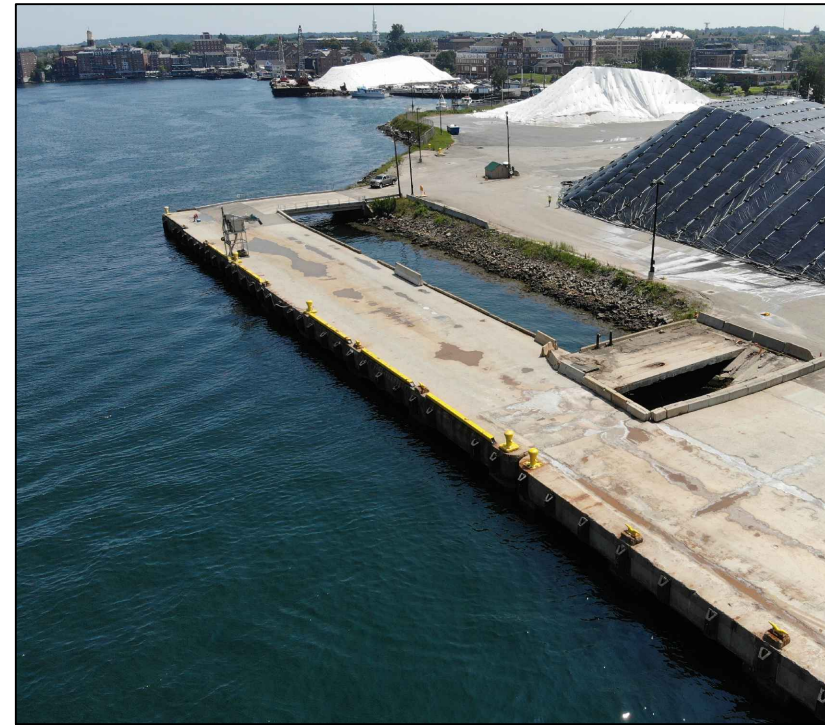
OVERALL SITE
LOOKING SOUTH

C1



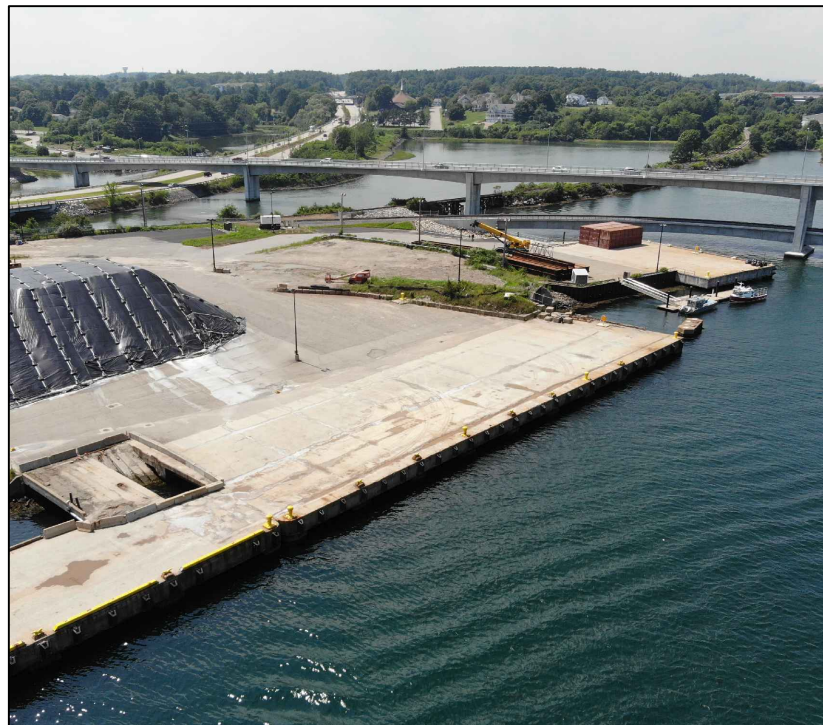
OVERALL SITE
LOOKING SOUTHEAST

C3



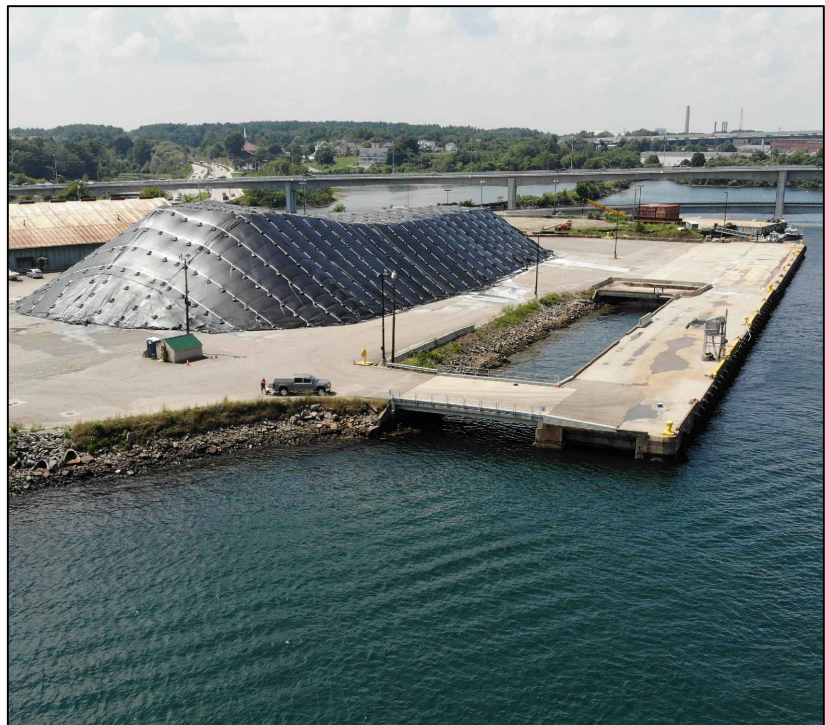
MAIN WHARF (1964 VINTAGE)
LOOKING SOUTHEAST

C4



MAIN WHARF (1977 VINTAGE)
LOOKING WEST

A1



SOUTH WHARF EXTENSION LOCATION
LOOKING WEST

A3



NORTH WHARF EXTENSION LOCATION
LOOKING SOUTH

A4

<p>603.766.1870 inquiry@appledoremarine.com</p> <p>Appledore Marine Engineering, LLC 600 State St., Suite E Portsmouth New Hampshire 03801</p> <p>DATE: _____</p> <p>TITLE: _____</p> <p>DATE: _____</p> <p>REVISION: _____</p> <p>DATE: _____</p> <p>DESCRIPTION: _____</p> <p>BY: _____</p>	
<p>PEASE DEVELOPMENT AUTHORITY DIVISION OF PORTS AND HARBORS, 555 MARKET STREET, PORTSMOUTH, NH MARKET STREET MARINE TERMINAL FUNCTIONAL REPLACEMENT BARGE DOCK</p> <p>SITE PHOTOS - 01</p>	
<p>PROJECT No.: 5213 CAD DWG FILE: 5213_permit_02_G-003.dwg DESIGNED BY: SMD DRAWN BY: KMV CHECKED BY: NJE SCALE: AS SHOWN</p>	
<p>G-003</p>	
<p>SHEET 3 OF 18</p>	

1

2

3

4

5

D

C

B

A



NORTH WHARF EXTENSION LOCATION
LOOKING SOUTHWEST (C1)



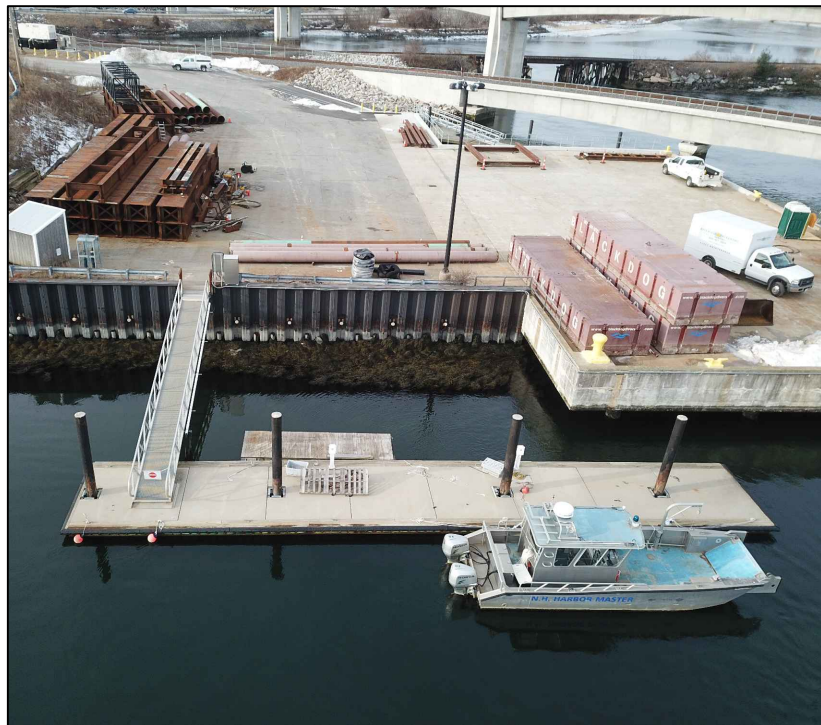
BRIDGE PIER 14
LOOKING SOUTHWEST (C3)



BRIDGE ABUTMENT 13
LOOKING SOUTHWEST (C4)



BARGE WHARF BULKHEAD
LOOKING WEST (A1)



FLOATING DOCK
LOOKING SOUTHWEST (A3)



FLOATING DOCK - NEW LOCATION
LOOKING SOUTHWEST (A4)

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PEASE DEVELOPMENT AUTHORITY
DIVISION OF PORTS AND HARBORS, 555 MARKET STREET, PORTSMOUTH, NH
MARKET STREET MARINE TERMINAL
FUNCTIONAL REPLACEMENT BARGE DOCK
SITE PHOTOS - 02

PROJECT No.: 5213
CAD DWG FILE: 5213_permit_02_G-003.dwg
DESIGNED BY: SMD
DRAWN BY: KMV
CHECKED BY: NJE
SCALE: AS SHOWN

G-004
SHEET 4 OF 18



MAIN WHARF - END SECTION
LOOKING NORTHWEST

C1



MAIN WHARF - SOUTH ACCESS BRIDGE
LOOKING SOUTHWEST

C3



MAIN WHARF - BRIDGE ABUTMENT
LOOKING WEST

C4



SOUTH WHARF EXTENSION REVETMENT
LOOKING WEST

A1



MAIN WHARF - FENDER SYSTEM
LOOKING SOUTHWEST

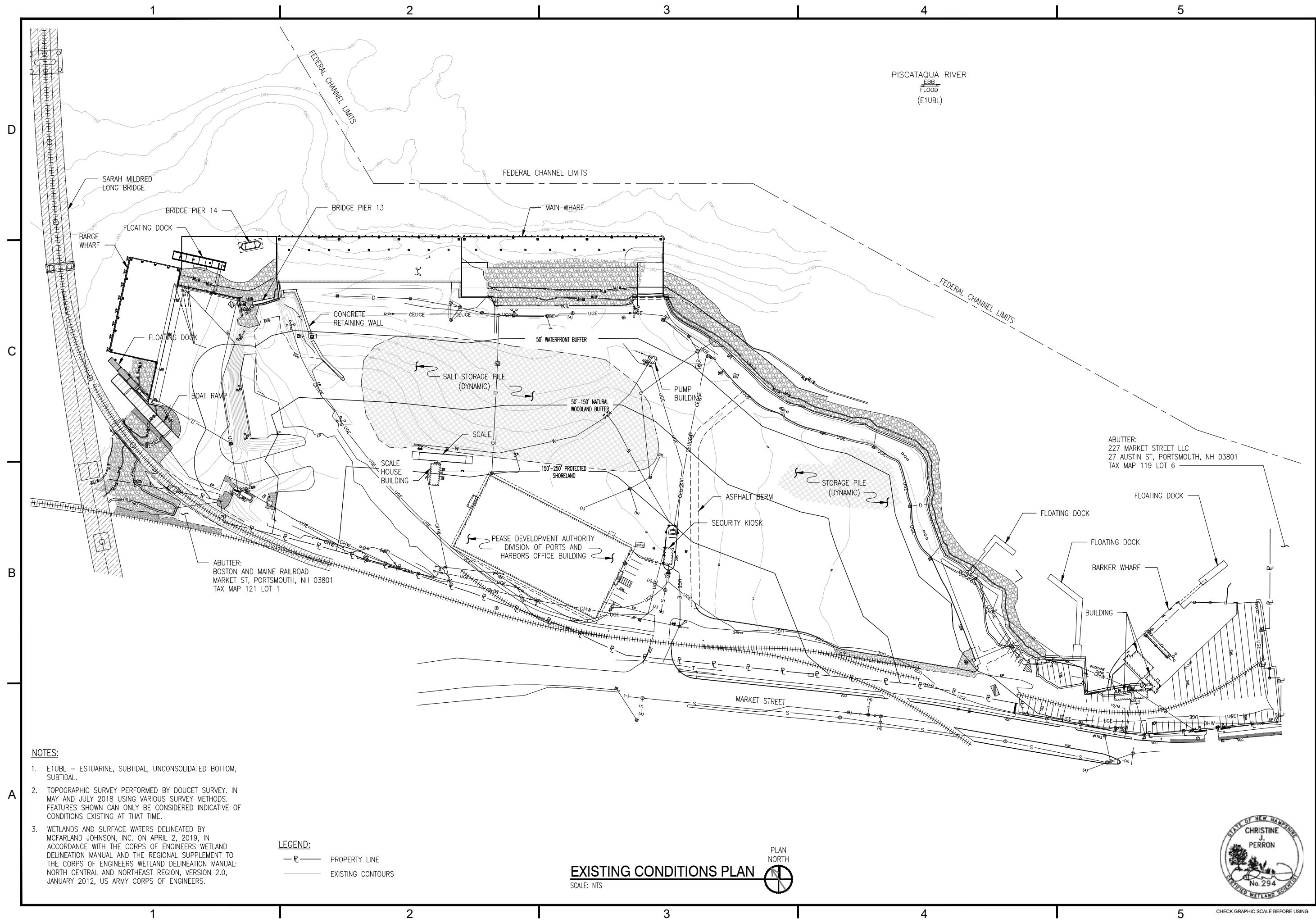
A3



BARGE WHARF - FENDER SYSTEM
LOOKING SOUTH

A4

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<p>PROJECT No.: 5213</p> <p>CAD DWG FILE: 5213_permit_02_G-005.dwg</p> <p>DESIGNED BY: SIND</p> <p>DRAWN BY: KMV</p> <p>CHECKED BY: SIND</p> <p>SCALE: AS SHOWN</p>		<p>PEASE DEVELOPMENT AUTHORITY DIVISION OF PORTS AND HARBORS, 555 MARKET STREET, PORTSMOUTH, NH MARKET STREET MARINE TERMINAL FUNCTIONAL REPLACEMENT BARGE DOCK</p> <p>SITE PHOTOS - 03</p>	
<p>G-005</p>		<p>SHEET 5 OF 18</p>	



NOTES:

1. E1UBL - ESTUARINE, SUBTIDAL, UNCONSOLIDATED BOTTOM, SUBTIDAL.
2. TOPOGRAPHIC SURVEY PERFORMED BY DOUCET SURVEY, IN MAY AND JULY 2018 USING VARIOUS SURVEY METHODS. FEATURES SHOWN CAN ONLY BE CONSIDERED INDICATIVE OF CONDITIONS EXISTING AT THAT TIME.
3. WETLANDS AND SURFACE WATERS DELINEATED BY MCFARLAND JOHNSON, INC. ON APRIL 2, 2019, IN ACCORDANCE WITH THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL AND THE REGIONAL SUPPLEMENT TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL: NORTH CENTRAL AND NORTHEAST REGION, VERSION 2.0, JANUARY 2012, US ARMY CORPS OF ENGINEERS.

LEGEND:

- P - PROPERTY LINE
- - - - - EXISTING CONTOURS

EXISTING CONDITIONS PLAN

SCALE: NTS



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 inquiry@appledoremarine.com
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 600 State St, Suite E
 Portsmouth New Hampshire 03801
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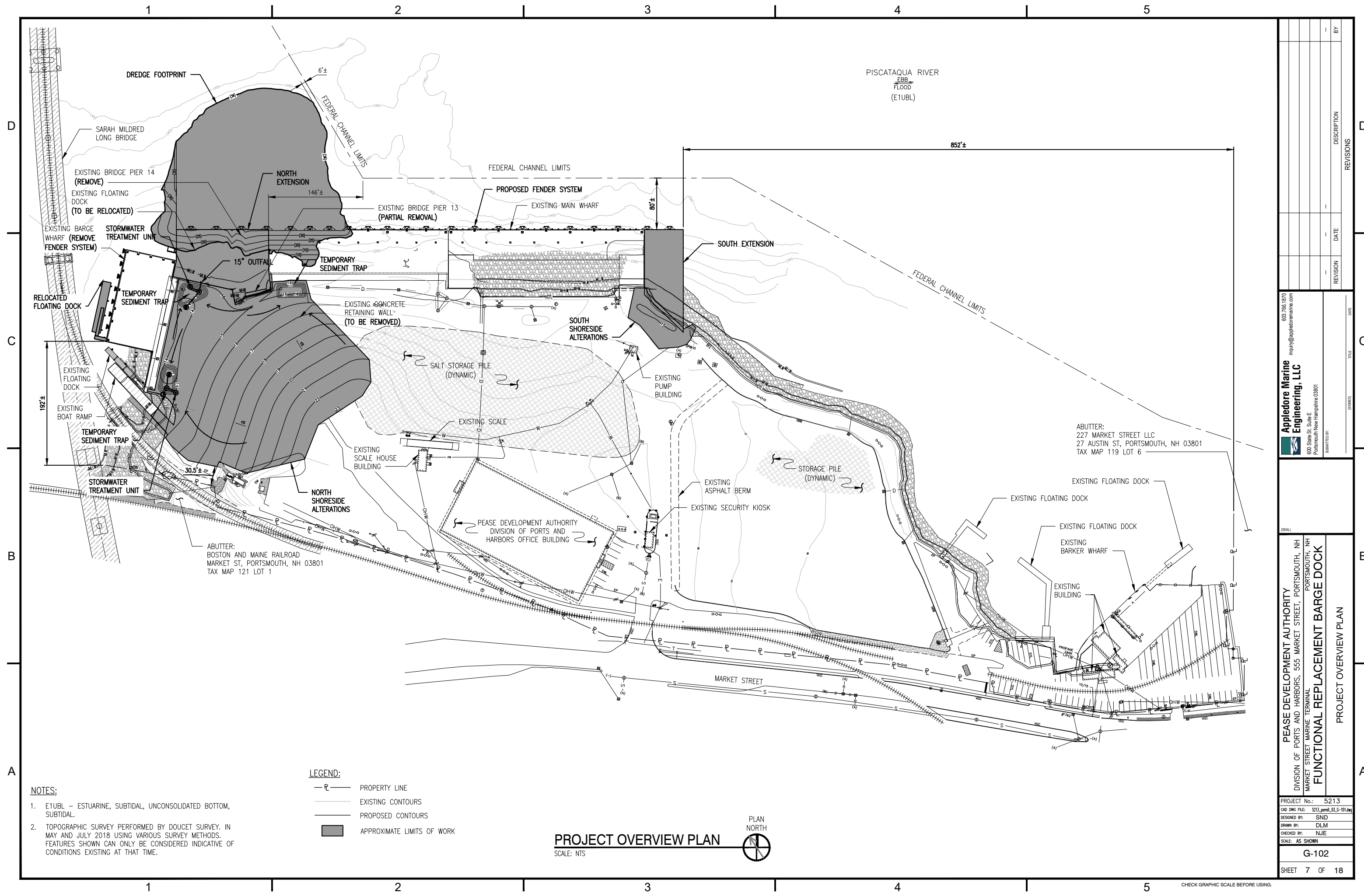
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PEASE DEVELOPMENT AUTHORITY
 DIVISION OF PORTS AND HARBORS, 555 MARKET STREET, PORTSMOUTH, NH
 MARKET STREET MARINE TERMINAL
FUNCTIONAL REPLACEMENT BARGE DOCK
 EXISTING CONDITIONS PLAN

PROJECT No.:	5213
CAD DWG FILE:	S213_permit_03_G-101.dwg
DESIGNED BY:	SND
DRAWN BY:	DLM
CHECKED BY:	NJE
SCALE:	AS SHOWN

G-101
 SHEET 6 OF 18

CHECK GRAPHIC SCALE BEFORE USING.



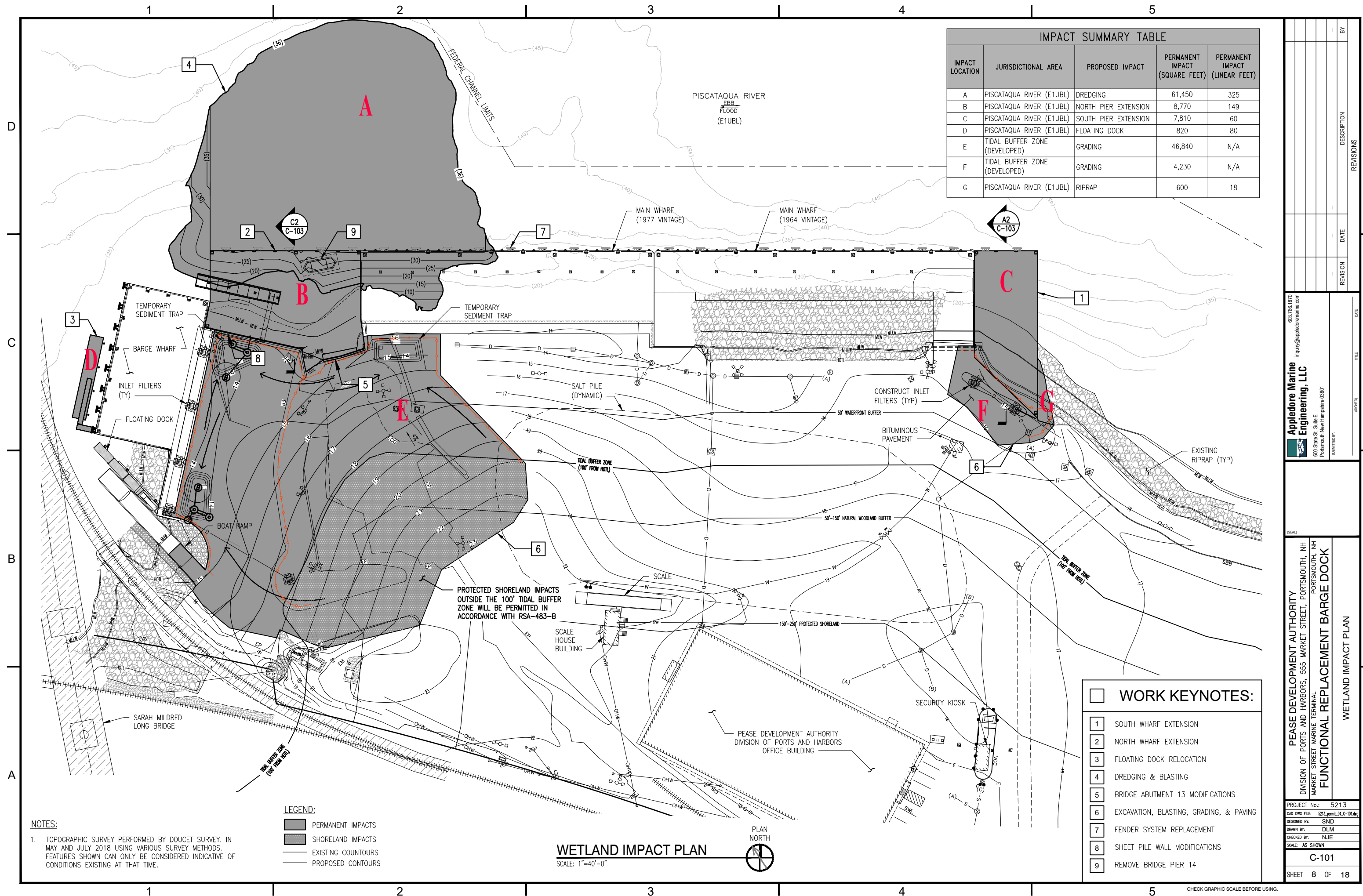
- NOTES:**
- E1UBL - ESTUARINE, SUBTIDAL, UNCONSOLIDATED BOTTOM, SUBTIDAL.
 - TOPOGRAPHIC SURVEY PERFORMED BY DOUCET SURVEY. IN MAY AND JULY 2018 USING VARIOUS SURVEY METHODS. FEATURES SHOWN CAN ONLY BE CONSIDERED INDICATIVE OF CONDITIONS EXISTING AT THAT TIME.

- LEGEND:**
- PROPERTY LINE
 - EXISTING CONTOURS
 - PROPOSED CONTOURS
 - APPROXIMATE LIMITS OF WORK

PROJECT OVERVIEW PLAN
SCALE: NTS



<p>603.766.1970 inquiry@applecoremarine.com</p> <p>Applecore Marine Engineering, LLC 600 State St, Suite E Portsmouth New Hampshire 03801</p> <p>DATE: _____</p> <p>TITLE: _____</p> <p>DATE: _____</p>	<p>ABUTTER: 227 MARKET STREET LLC 27 AUSTIN ST, PORTSMOUTH, NH 03801 TAX MAP 119 LOT 6</p> <p>ABUTTER: BOSTON AND MAINE RAILROAD MARKET ST, PORTSMOUTH, NH 03801 TAX MAP 121 LOT 1</p>
<p>PEASE DEVELOPMENT AUTHORITY DIVISION OF PORTS AND HARBORS, 555 MARKET STREET, PORTSMOUTH, NH MARKET STREET MARINE TERMINAL FUNCTIONAL REPLACEMENT BARGE DOCK</p> <p>PROJECT OVERVIEW PLAN</p>	
<p>PROJECT No.: 5213 CAD DWG FILE: S213_permit_03_G-101.dwg DESIGNED BY: SND DRAWN BY: DLN CHECKED BY: NJE SCALE: AS SHOWN</p>	
<p>G-102</p>	
<p>SHEET 7 OF 18</p>	



IMPACT LOCATION	JURISDICTIONAL AREA	PROPOSED IMPACT	PERMANENT IMPACT (SQUARE FEET)	PERMANENT IMPACT (LINEAR FEET)
A	PISCATAQUA RIVER (E1UBL)	DREDGING	61,450	325
B	PISCATAQUA RIVER (E1UBL)	NORTH PIER EXTENSION	8,770	149
C	PISCATAQUA RIVER (E1UBL)	SOUTH PIER EXTENSION	7,810	60
D	PISCATAQUA RIVER (E1UBL)	FLOATING DOCK	820	80
E	TIDAL BUFFER ZONE (DEVELOPED)	GRADING	46,840	N/A
F	TIDAL BUFFER ZONE (DEVELOPED)	GRADING	4,230	N/A
G	PISCATAQUA RIVER (E1UBL)	RIPRAP	600	18

NOTES:
 1. TOPOGRAPHIC SURVEY PERFORMED BY DOUCET SURVEY, IN MAY AND JULY 2018 USING VARIOUS SURVEY METHODS. FEATURES SHOWN CAN ONLY BE CONSIDERED INDICATIVE OF CONDITIONS EXISTING AT THAT TIME.

LEGEND:
 [Solid Grey] PERMANENT IMPACTS
 [Hatched Grey] SHORELAND IMPACTS
 [Dashed Line] EXISTING CONTOURS
 [Solid Line] PROPOSED CONTOURS

WETLAND IMPACT PLAN
 SCALE: 1"=40'-0"



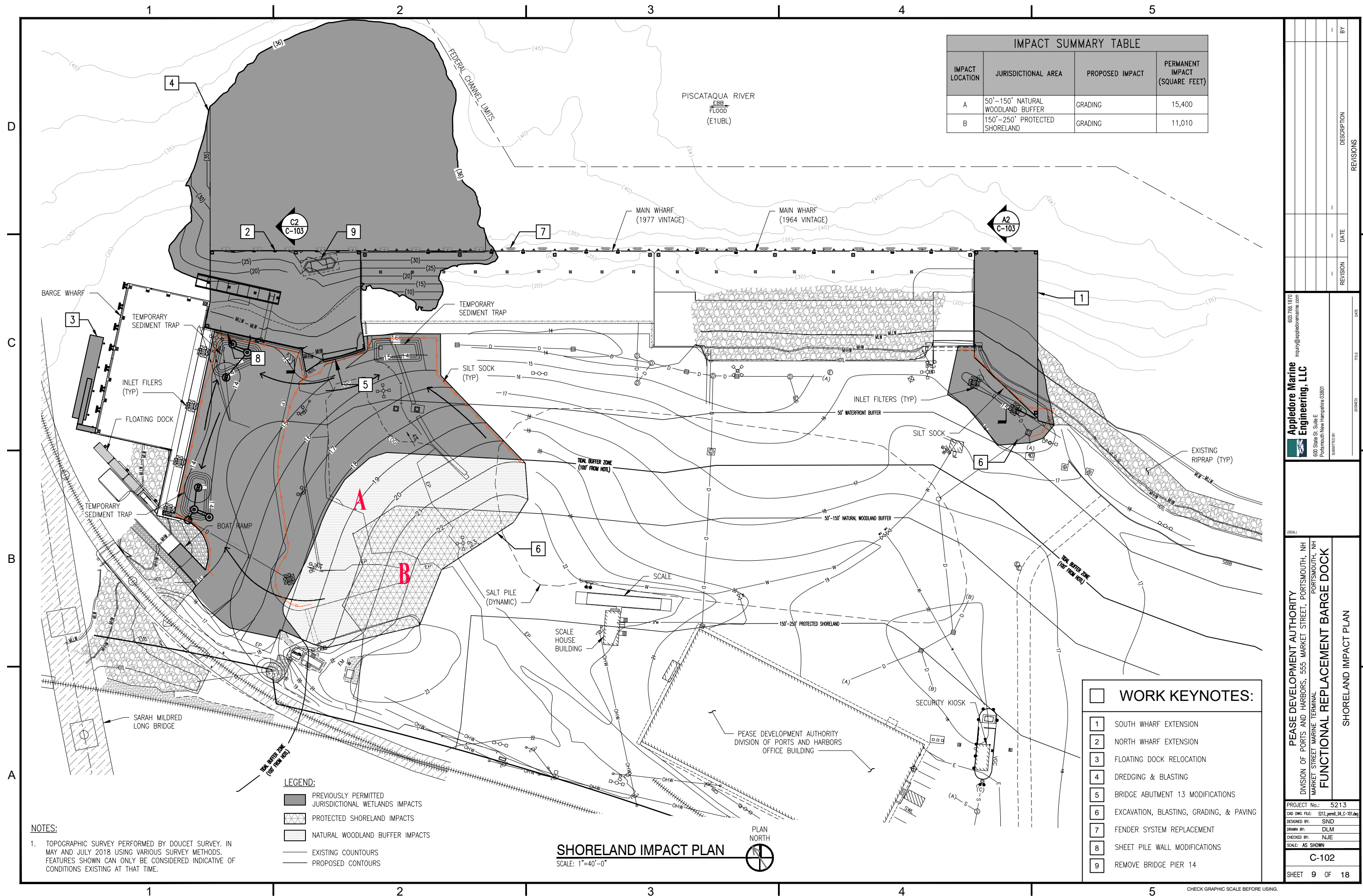
- WORK KEYNOTES:**
- 1 SOUTH WHARF EXTENSION
 - 2 NORTH WHARF EXTENSION
 - 3 FLOATING DOCK RELOCATION
 - 4 DREDGING & BLASTING
 - 5 BRIDGE ABUTMENT 13 MODIFICATIONS
 - 6 EXCAVATION, BLASTING, GRADING, & PAVING
 - 7 FENDER SYSTEM REPLACEMENT
 - 8 SHEET PILE WALL MODIFICATIONS
 - 9 REMOVE BRIDGE PIER 14

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 Portsmouth New Hampshire 03801
 SUBMITTED BY: [Signature]
 (DATE)

PEASE DEVELOPMENT AUTHORITY
 DIVISION OF PORTS AND HARBORS, 555 MARKET STREET, PORTSMOUTH, NH
 MARKET STREET MARINE TERMINAL
FUNCTIONAL REPLACEMENT BARGE DOCK
 WETLAND IMPACT PLAN

PROJECT No.: 5213
 CAD DWG FILE: S213_permit_M_C-101.dwg
 DESIGNED BY: SND
 DRAWN BY: DLM
 CHECKED BY: NJE
 SCALE: AS SHOWN
C-101
 SHEET 8 OF 18

REVISION	DATE	DESCRIPTION	BY



IMPACT SUMMARY TABLE			
IMPACT LOCATION	JURISDICTIONAL AREA	PROPOSED IMPACT	PERMANENT IMPACT (SQUARE FEET)
A	50'-150' NATURAL WOODLAND BUFFER	GRADING	15,400
B	150'-250' PROTECTED SHORELAND	GRADING	11,010

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REVISION: _____
DESCRIPTION: _____

PEASE DEVELOPMENT AUTHORITY
DIVISION OF PORTS AND HARBORS, 555 MARKET STREET, PORTSMOUTH, NH
MARKET STREET MARINE TERMINAL
FUNCTIONAL REPLACEMENT BARGE DOCK

SHORELAND IMPACT PLAN

PROJECT No.: 5213
CAD DWG FILE: S213_permit_M_C-101.dwg
DESIGNED BY: SND
DRAWN BY: DLM
CHECKED BY: NJE
SCALE: AS SHOWN

C-102

SHEET 9 OF 18

NOTES:

1. TOPOGRAPHIC SURVEY PERFORMED BY DOUCET SURVEY, IN MAY AND JULY 2018 USING VARIOUS SURVEY METHODS. FEATURES SHOWN CAN ONLY BE CONSIDERED INDICATIVE OF CONDITIONS EXISTING AT THAT TIME.

LEGEND:

- PREVIOUSLY PERMITTED JURISDICTIONAL WETLANDS IMPACTS
- PROTECTED SHORELAND IMPACTS
- NATURAL WOODLAND BUFFER IMPACTS
- EXISTING CONTOURS
- PROPOSED CONTOURS

SHORELAND IMPACT PLAN
SCALE: 1"=40'-0"

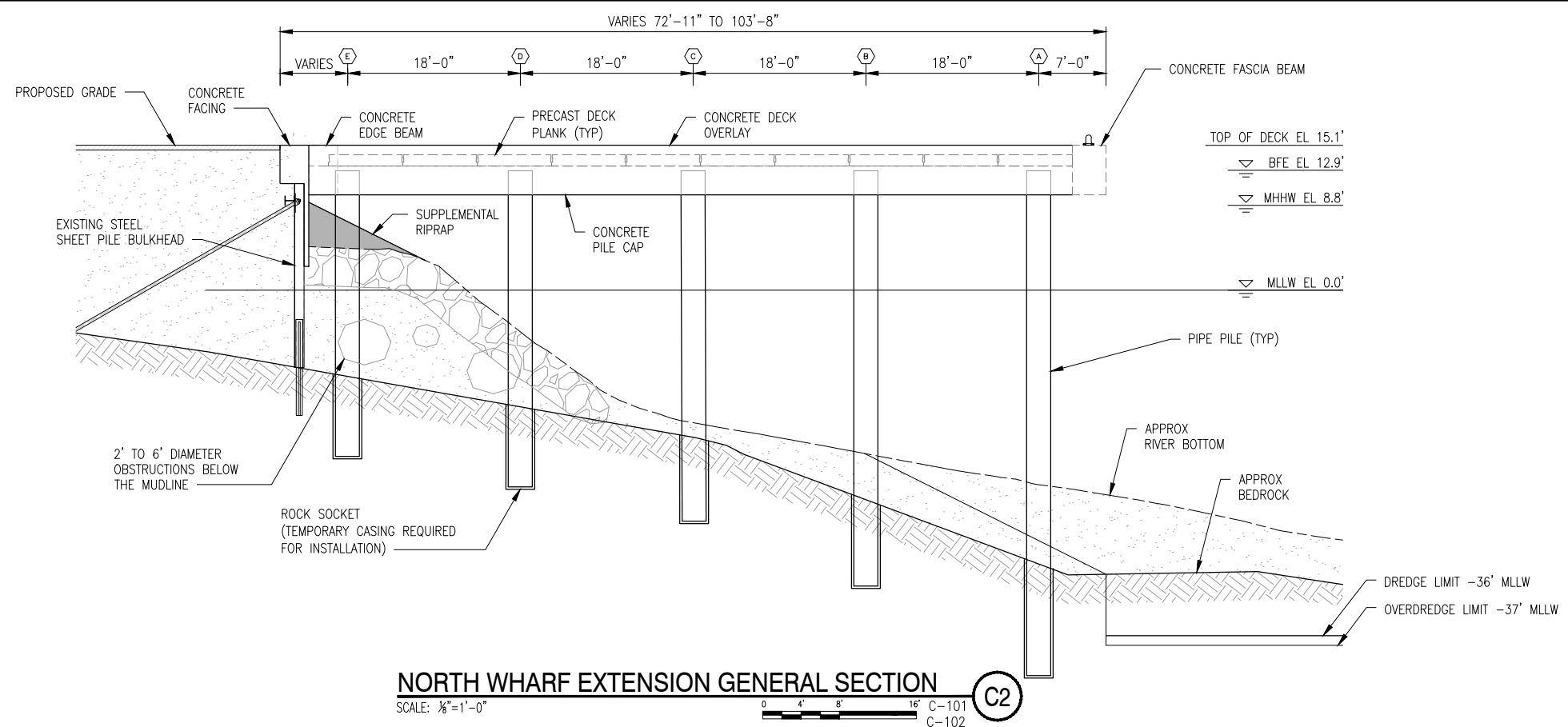


- WORK KEYNOTES:**
- 1 SOUTH WHARF EXTENSION
 - 2 NORTH WHARF EXTENSION
 - 3 FLOATING DOCK RELOCATION
 - 4 DREDGING & BLASTING
 - 5 BRIDGE ABUTMENT 13 MODIFICATIONS
 - 6 EXCAVATION, BLASTING, GRADING, & PAVING
 - 7 FENDER SYSTEM REPLACEMENT
 - 8 SHEET PILE WALL MODIFICATIONS
 - 9 REMOVE BRIDGE PIER 14

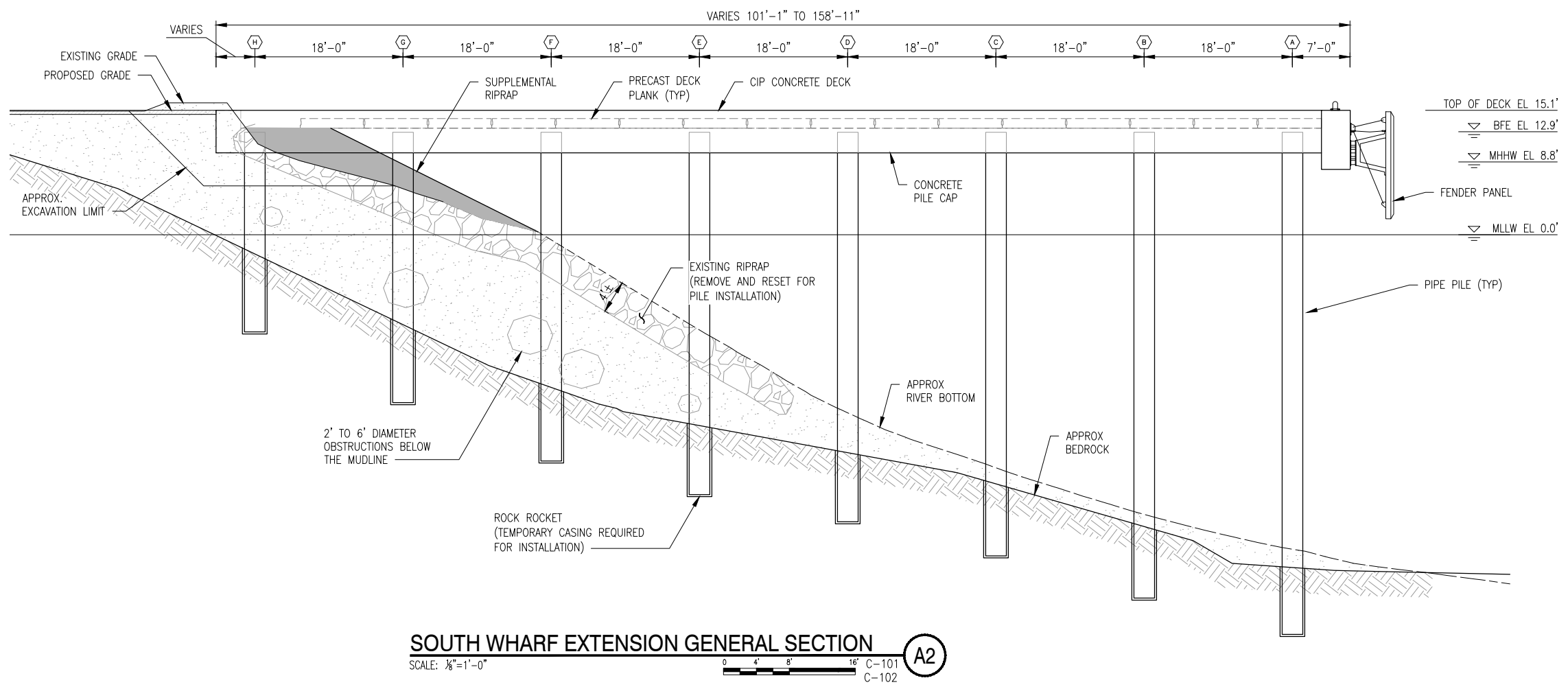
ELEVATION REFERENCE TABLE

REFERENCE	MLLW
DECK ELEVATION	15.10
BASE FLOOD ELEVATION (BFE)	12.86
HIGHEST OBSERVED TIDE (02/07/1978)	12.52
HIGHEST ASTRONOMICAL TIDE (HAT) (06/15/1995)	10.52
MEAN HIGHER HIGH WATER (MHHW)	8.84
MEAN HIGH WATER (MHW)	8.43
NORTH AMERICAN VERTICAL DATUM (NAVD88)	4.62
MEAN SEA LEVEL (MSL)	4.43
MEAN TIDE LEVEL (MTL)	4.38
NATIONAL GEODETIC VERTICAL DATUM (NGVD29)	3.86
MEAN LOW WATER (MLW)	0.32
MEAN LOWER LOW WATER (MLLW)	0.00
LOWEST ASTRONOMICAL TIDE (LAT)	-1.67
LOWEST OBSERVED WATER LEVEL (11/30/1955)	-3.35

THE LOCAL TIDAL DATUM INFORMATION AND THE RELATIONSHIP BETWEEN LOCAL TIDE AND NAVD88 IS BASED ON DATA PUBLISHED BY THE U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SERVICE FOR STATION "SEAVEY ISLAND, PORTSMOUTH HARBOR", STATION ID: 8419870, TIDAL EPOCH 1983-2001.



NORTH WHARF EXTENSION GENERAL SECTION C2
SCALE: 1/8"=1'-0"



SOUTH WHARF EXTENSION GENERAL SECTION A2
SCALE: 1/8"=1'-0"

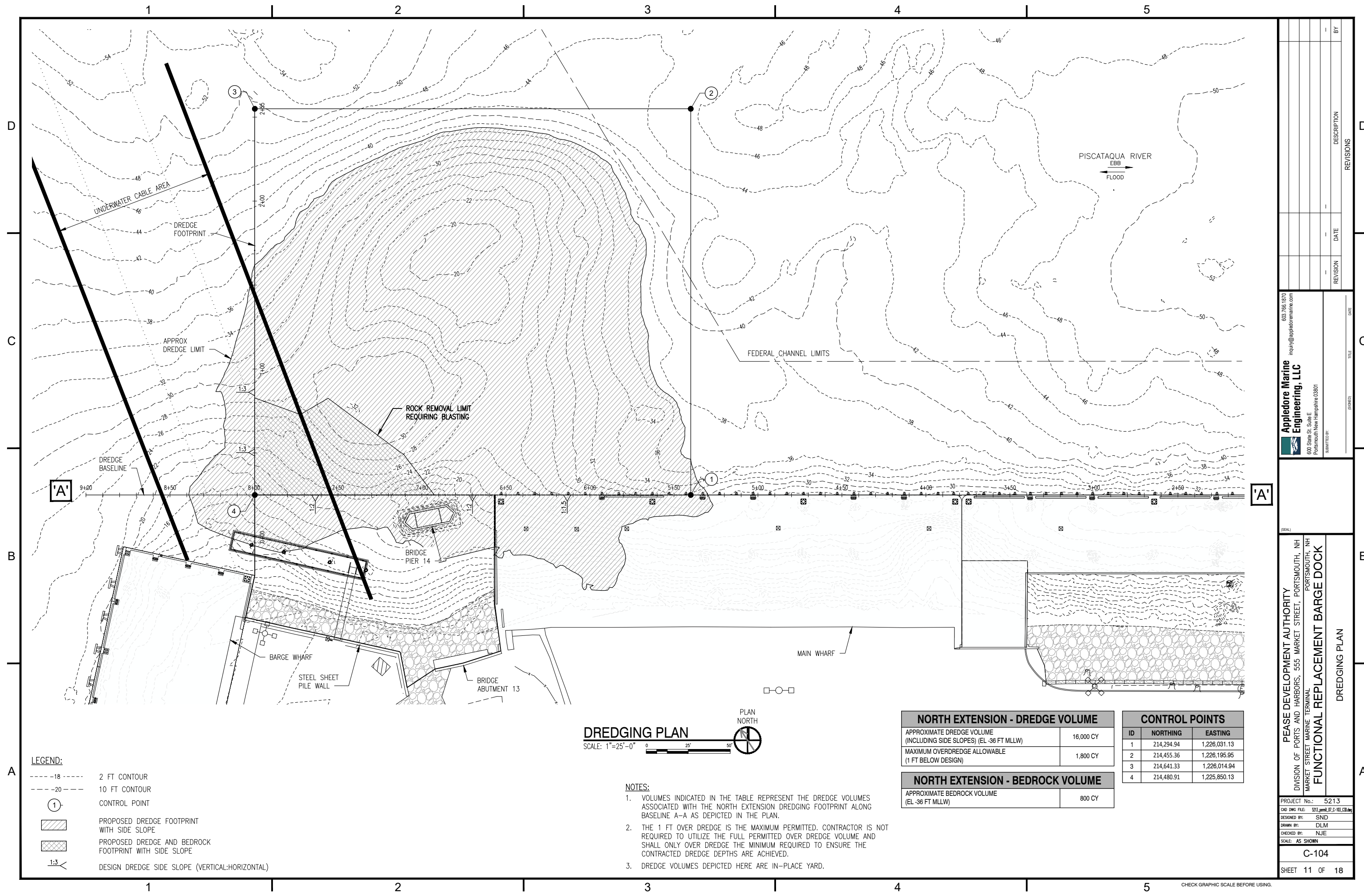
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Portsmouth New Hampshire 03801
SUBMITTED BY: (NAME)
DATE: (DATE)

PEASE DEVELOPMENT AUTHORITY
DIVISION OF PORTS AND HARBORS, 555 MARKET STREET, PORTSMOUTH, NH
MARKET STREET MARINE TERMINAL
FUNCTIONAL REPLACEMENT BARGE DOCK
GENERAL SECTIONS

PROJECT No.: 5213
CAD DWG FILE: 5213_permit_06_S-101.dwg
DESIGNED BY: SND
DRAWN BY: KMV
CHECKED BY: NJE
SCALE: AS SHOWN

C-103
SHEET 10 OF 18



PISCATAQUA RIVER
 EBB
 FLOOD

FEDERAL CHANNEL LIMITS

DREDGING PLAN

SCALE: 1"=25'-0"



- LEGEND:**
- 2 FT CONTOUR
 - 10 FT CONTOUR
 - CONTROL POINT
 - PROPOSED DREDGE FOOTPRINT WITH SIDE SLOPE
 - PROPOSED DREDGE AND BEDROCK FOOTPRINT WITH SIDE SLOPE
 - DESIGN DREDGE SIDE SLOPE (VERTICAL:HORIZONTAL)

- NOTES:**
- VOLUMES INDICATED IN THE TABLE REPRESENT THE DREDGE VOLUMES ASSOCIATED WITH THE NORTH EXTENSION DREDGING FOOTPRINT ALONG BASELINE A-A AS DEPICTED IN THE PLAN.
 - THE 1 FT OVER DREDGE IS THE MAXIMUM PERMITTED. CONTRACTOR IS NOT REQUIRED TO UTILIZE THE FULL PERMITTED OVER DREDGE VOLUME AND SHALL ONLY OVER DREDGE THE MINIMUM REQUIRED TO ENSURE THE CONTRACTED DREDGE DEPTHS ARE ACHIEVED.
 - DREDGE VOLUMES DEPICTED HERE ARE IN-PLACE YARD.

NORTH EXTENSION - DREDGE VOLUME

APPROXIMATE DREDGE VOLUME (INCLUDING SIDE SLOPES) (EL -36 FT MLLW)	16,000 CY
MAXIMUM OVERDREDGE ALLOWABLE (1 FT BELOW DESIGN)	1,800 CY

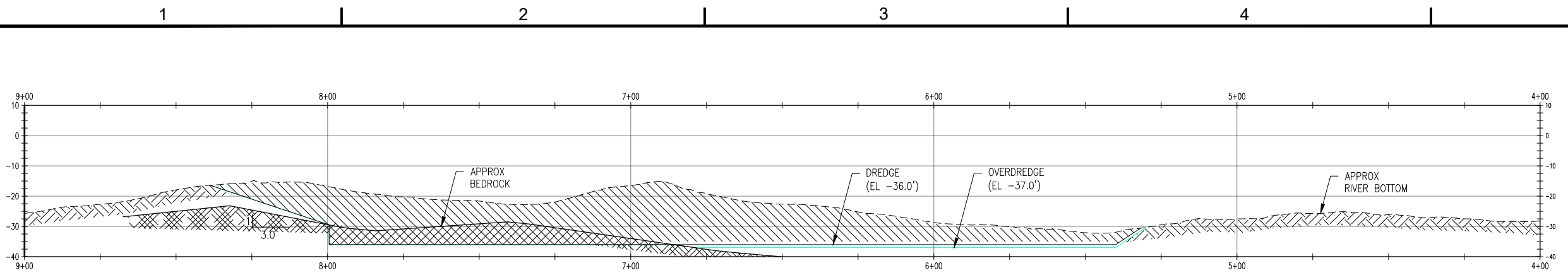
NORTH EXTENSION - BEDROCK VOLUME

APPROXIMATE BEDROCK VOLUME (EL -36 FT MLLW)	800 CY
---------------------------------------------	--------

CONTROL POINTS

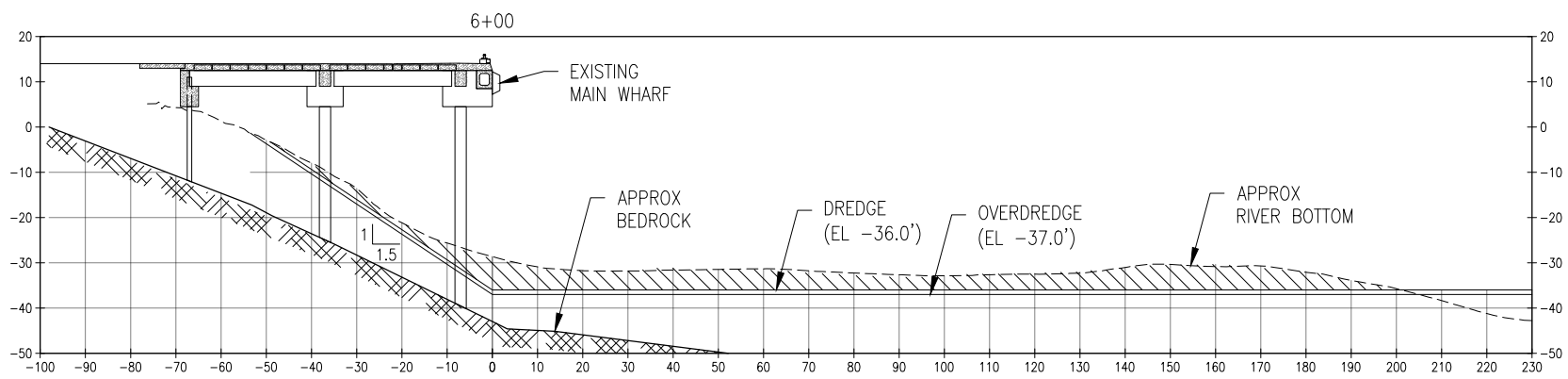
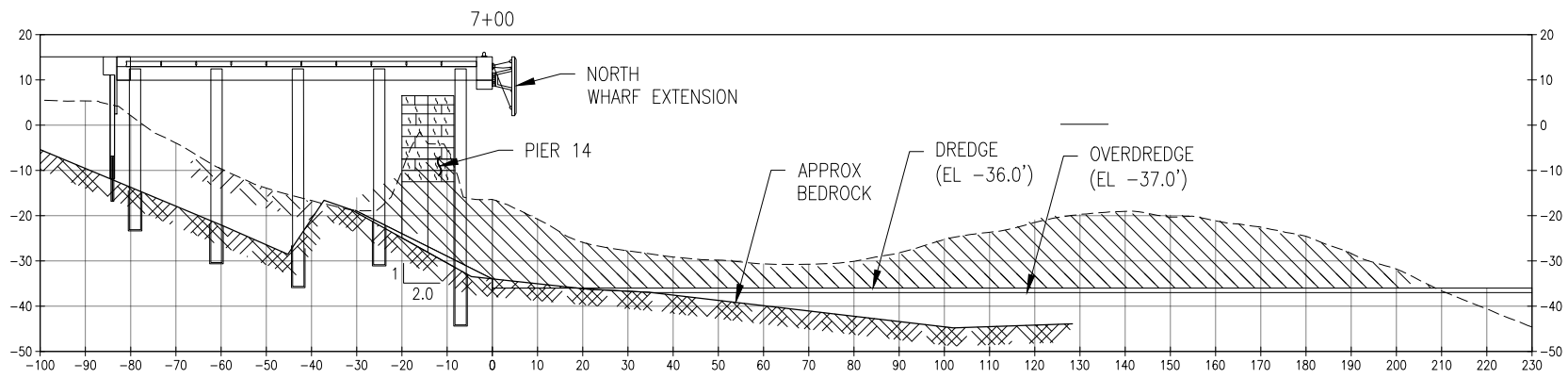
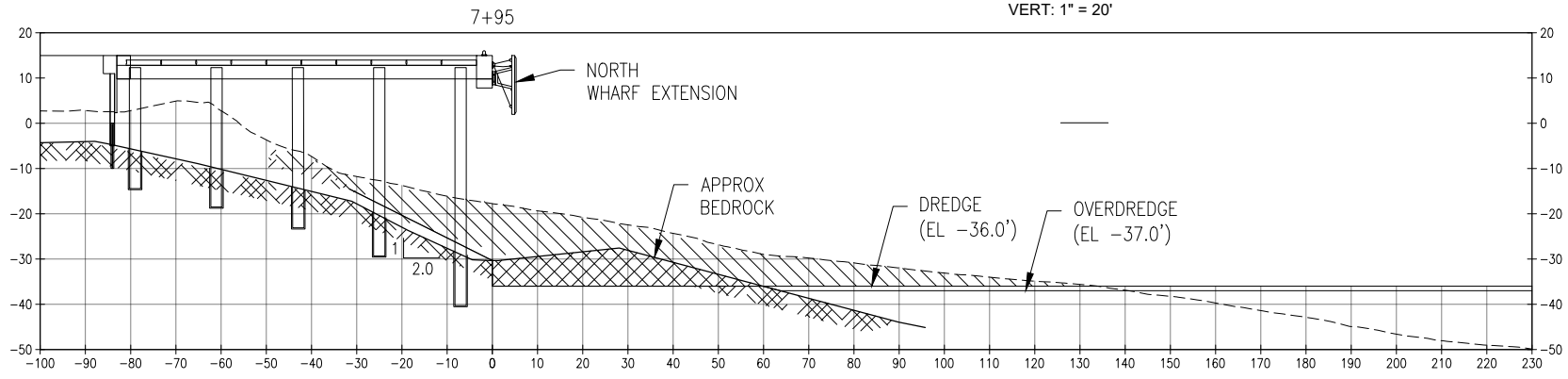
ID	NORTHING	EASTING
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2	214,455.36	1,226,195.95
3	214,641.33	1,226,014.94
4	214,480.91	1,225,850.13

<p style="text-align: center;">Appledore Marine Engineering, LLC</p> <p style="font-size: small;">603.786.1870 inquiry@appledoremarine.com 600 State St, Suite E Portsmouth New Hampshire 03801</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>REVISION</th> <th>DATE</th> <th>DESCRIPTION</th> <th>BY</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	REVISION	DATE	DESCRIPTION	BY				
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<p>PEASE DEVELOPMENT AUTHORITY DIVISION OF PORTS AND HARBORS, 555 MARKET STREET, PORTSMOUTH, NH MARKET STREET MARINE TERMINAL FUNCTIONAL REPLACEMENT BARGE DOCK</p>									
<p>PROJECT No.: 5213 CAD DWG FILE: 5213_pem_07_C-104.dwg DESIGNED BY: SND DRAWN BY: DLM CHECKED BY: NJE SCALE: AS SHOWN</p>									
<p>C-104</p> <p>SHEET 11 OF 18</p>									



DREDGING PROFILE A-A

HORIZ: 1" = 20'
VERT: 1" = 20'



DREDGING SECTIONS A-A

HORIZ: 1" = 20'
VERT: 1" = 20'

- LEGEND:**
- DREDGE REMOVAL
 - BEDROCK REMOVAL
 - APPROXIMATE MUDLINE
 - APPROXIMATE BEDROCK

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TITLE: _____
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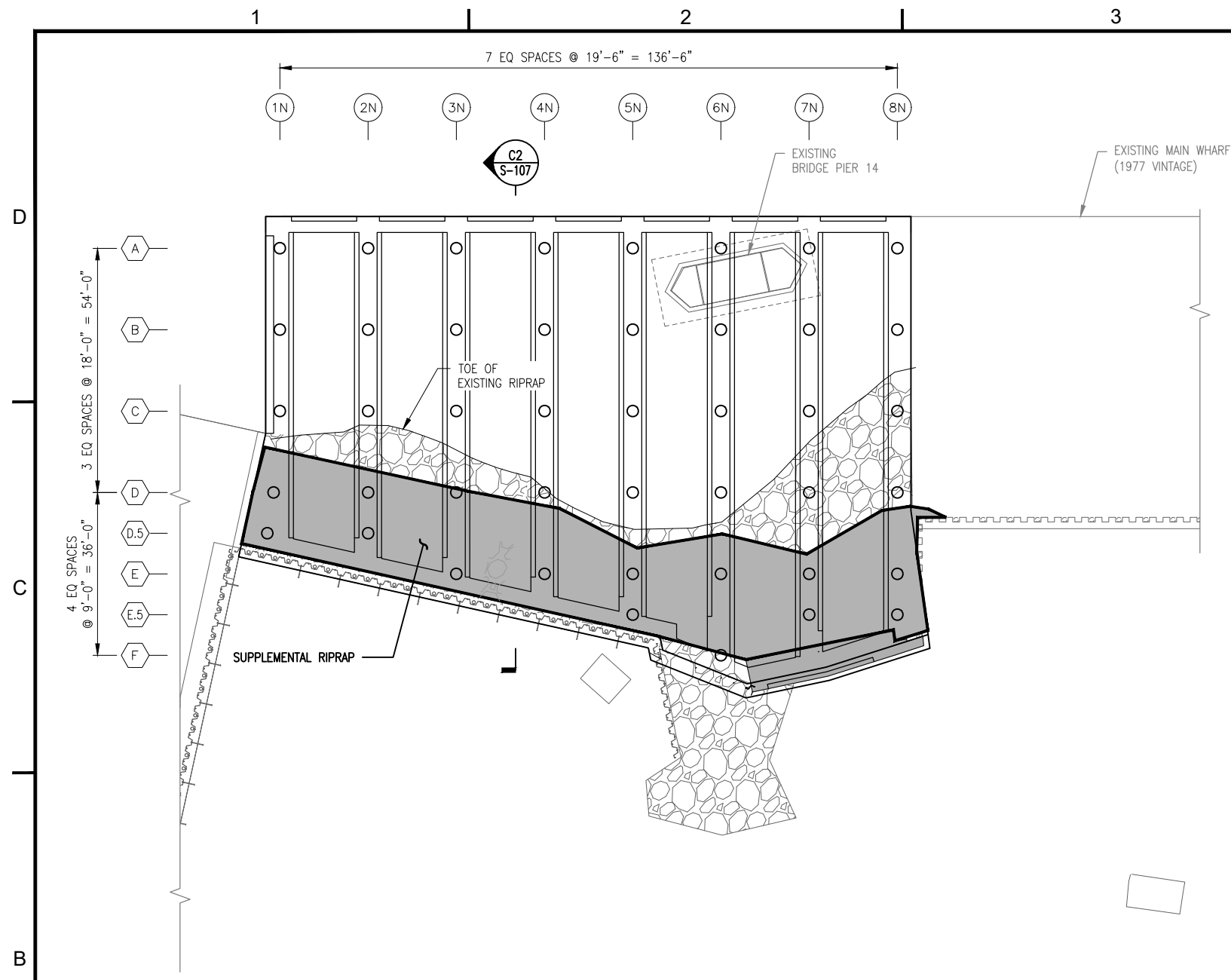
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MARKET STREET MARINE TERMINAL
FUNCTIONAL REPLACEMENT BARGE DOCK

DREDGE SECTIONS

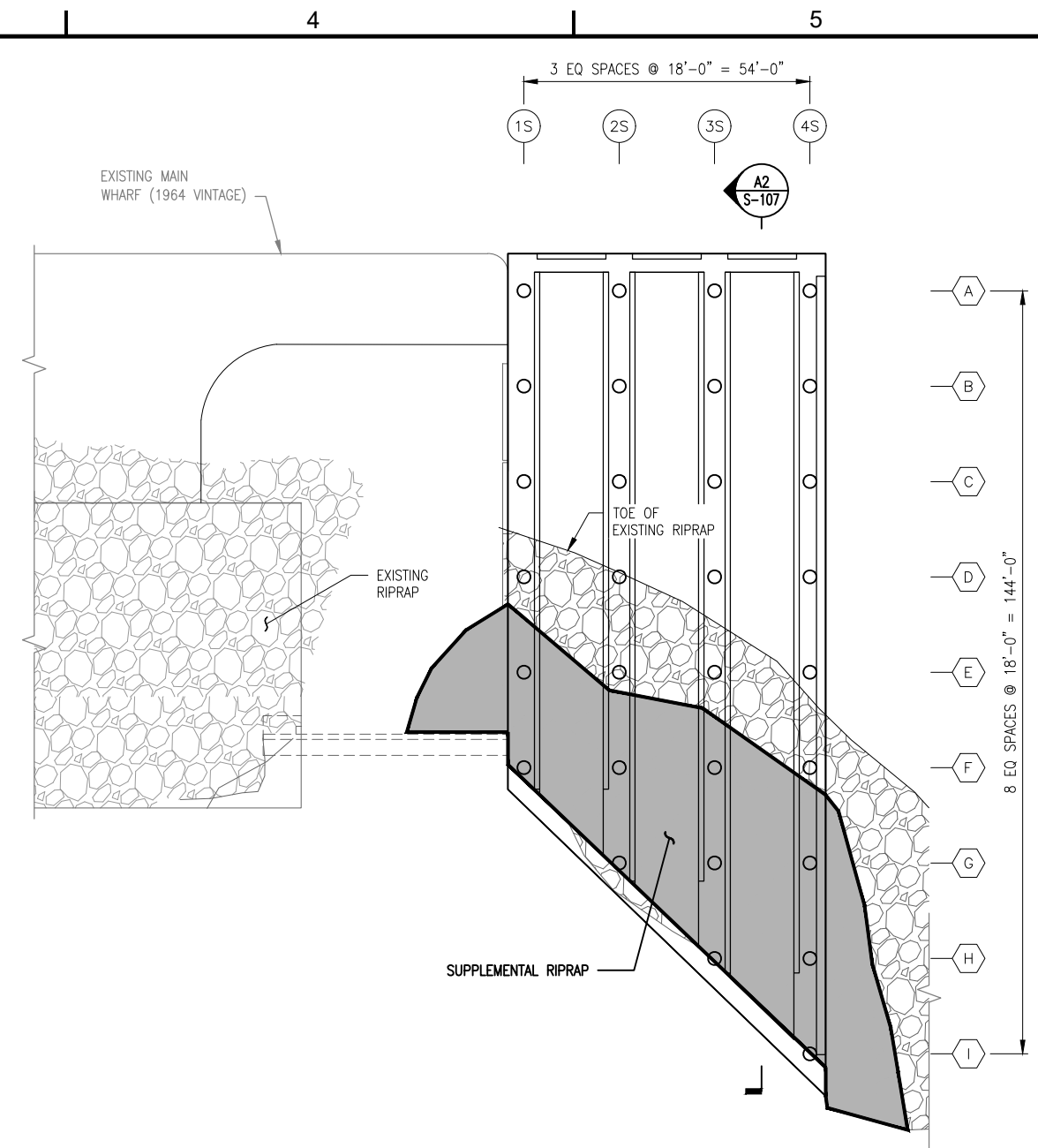
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DRAWN BY: DLM
CHECKED BY: NJE
SCALE: AS SHOWN

C-105

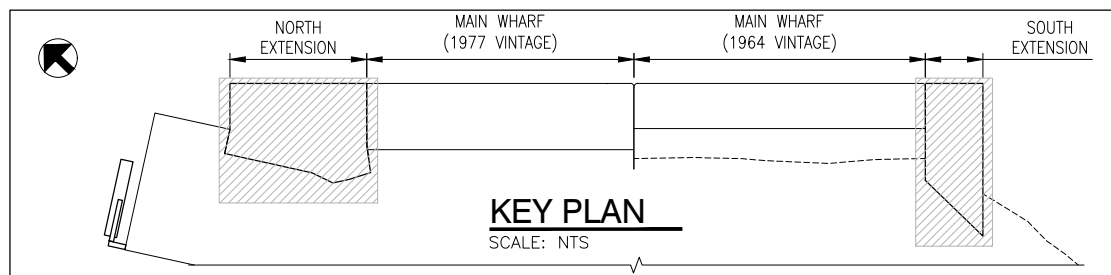
SHEET 12 OF 18



NORTH WHARF EXTENSION RIPRAP PLAN
 SCALE: 1/16" = 1'-0"
 PLAN NORTH



SOUTH WHARF EXTENSION RIPRAP PLAN
 SCALE: 1/16" = 1'-0"
 PLAN NORTH



KEY PLAN
 SCALE: NTS

603.766.1870 inquiry@appledoremarine.com Appledore Marine Engineering, LLC 600 State St, Suite E Portsmouth New Hampshire 03801 <small>DATE</small> <small>BY</small>	
PEASE DEVELOPMENT AUTHORITY DIVISION OF PORTS AND HARBORS, 555 MARKET STREET, PORTSMOUTH, NH MARKET STREET MARINE TERMINAL FUNCTIONAL REPLACEMENT BARGE DOCK	PROJECT No.: 5213 CAD DWG FILE: S213_permit_06_S-101.dwg DESIGNED BY: SND DRAWN BY: MDM CHECKED BY: NJE SCALE: AS SHOWN
RIPRAP PLAN SHEET 13 OF 18	

CHECK GRAPHIC SCALE BEFORE USING.

1

2

3

4

5

D

C

B

A

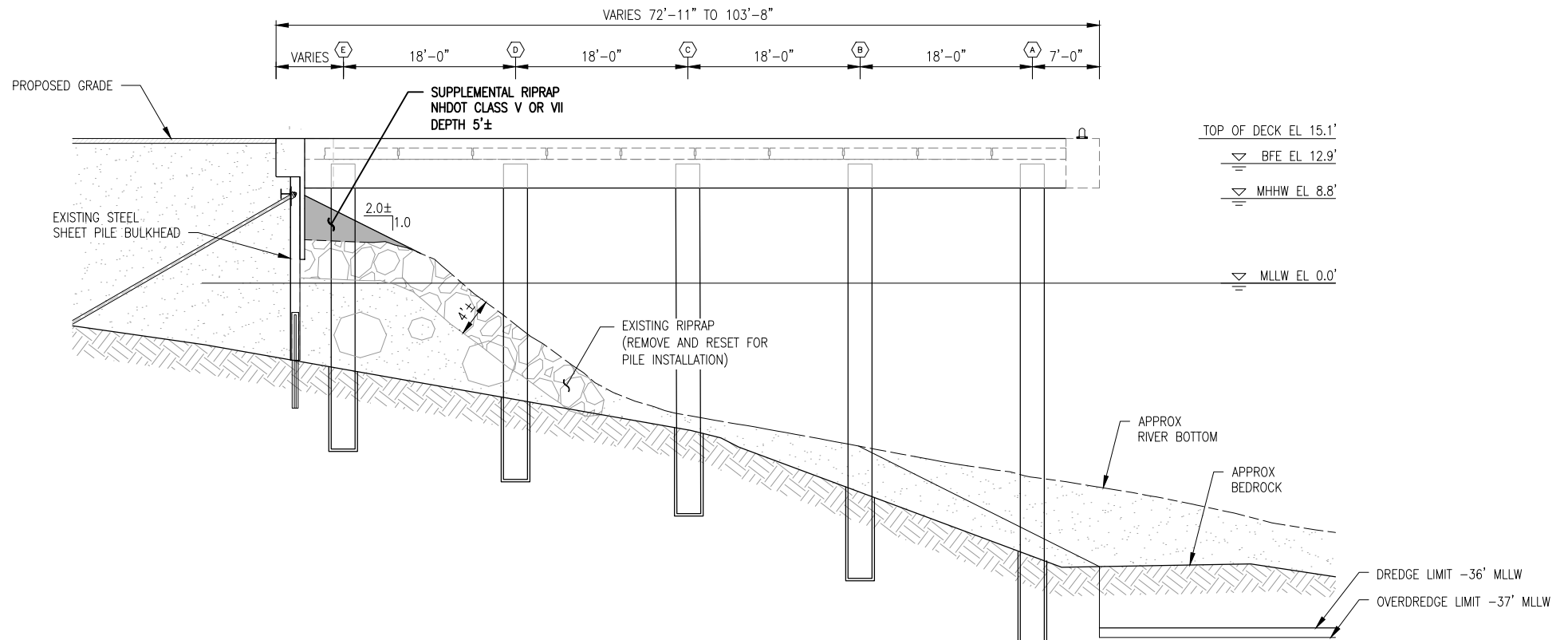
D

C

B

A

RIPRAP SUMMARY TABLE						
RIPRAP CLASSES AND SIZES			PERCENT DISTRIBUTION OF PARTICLE SIZE BY VOLUME (CF)			
NHDOT CLASS	NOMINAL SIZE (IN)	MAXIMUM SIZE (IN.)	<15%	15%-85%	>85%	MAXIMUM
V	18	36	1.3	3.5	8.5	22
VII	24	48	3	8	19	53

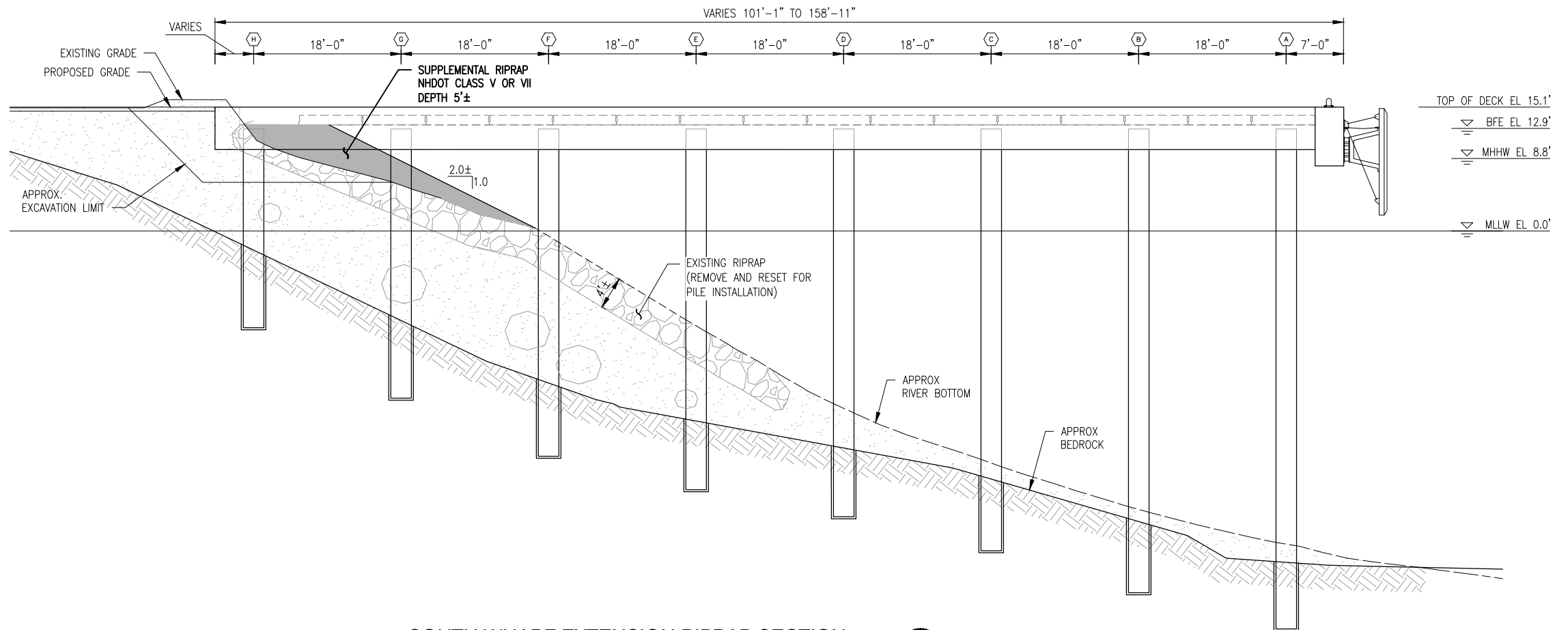


NORTH WHARF EXTENSION RIPRAP SECTION

SCALE: 1/8"=1'-0"

0 4' 8' 16' C-106

C2



SOUTH WHARF EXTENSION RIPRAP SECTION

SCALE: 1/8"=1'-0"

0 4' 8' 16' C-106

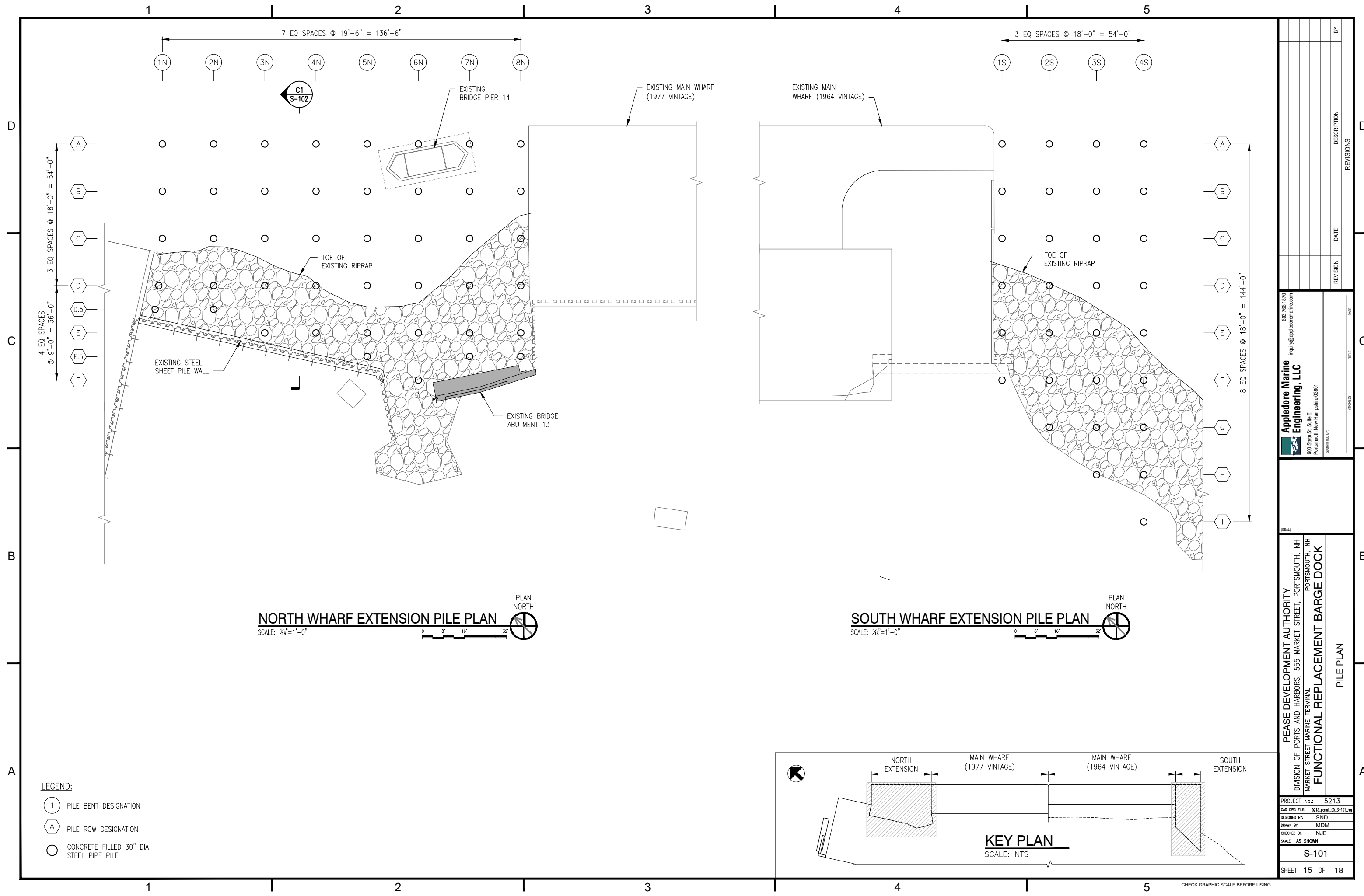
A2

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FUNCTIONAL REPLACEMENT BARGE DOCK

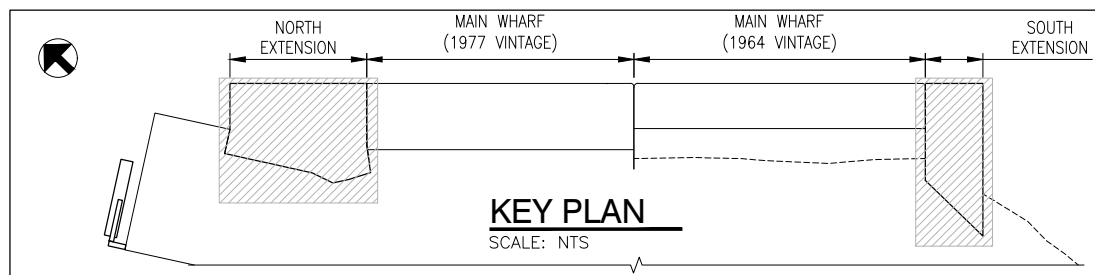
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 CAD DWG FILE: S213_permit_06_S-101.dwg
 DESIGNED BY: SND
 DRAWN BY: KMV
 CHECKED BY: NJE
 SCALE: AS SHOWN

C-107
 SHEET 14 OF 18



NORTH WHARF EXTENSION PILE PLAN
 SCALE: 1/16"=1'-0"
 PLAN NORTH

SOUTH WHARF EXTENSION PILE PLAN
 SCALE: 1/16"=1'-0"
 PLAN NORTH

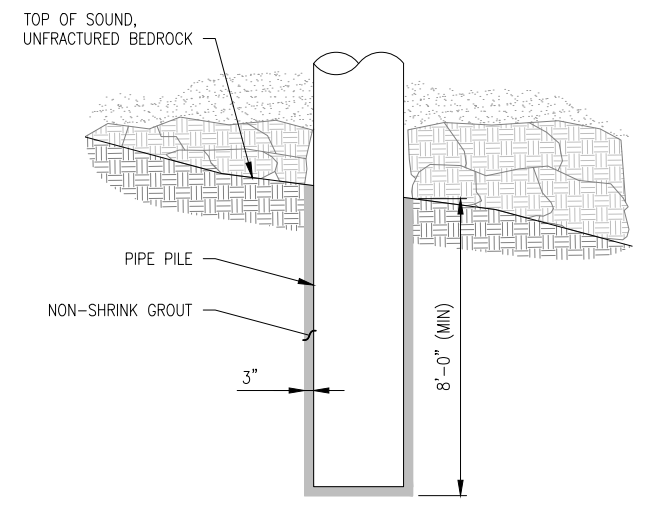
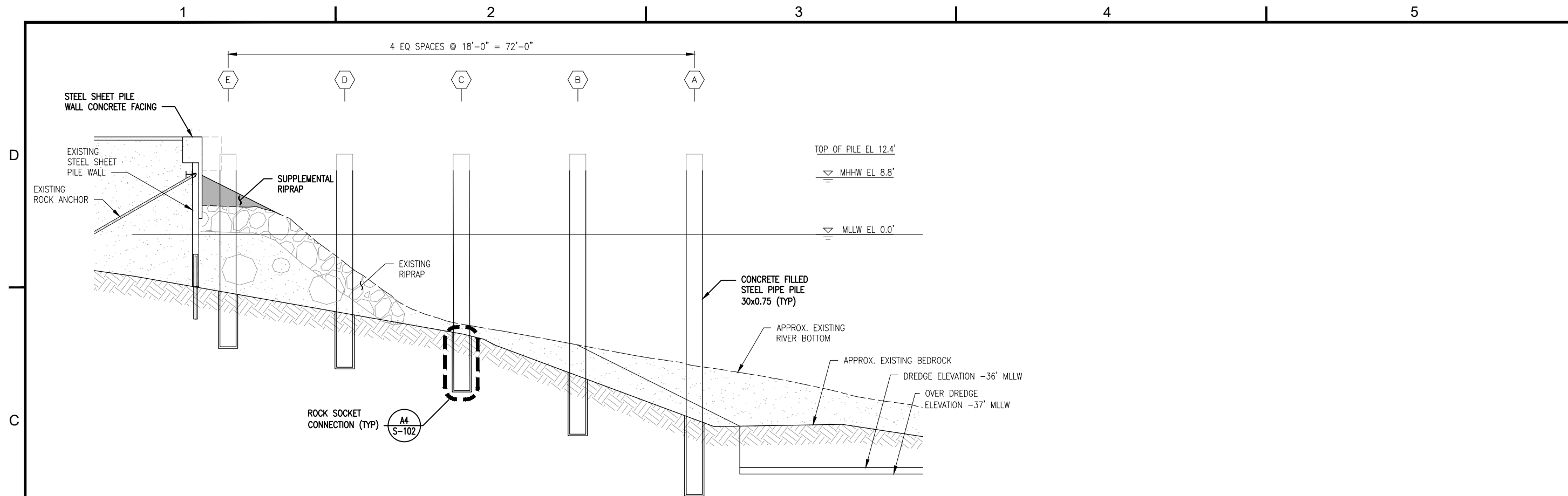


KEY PLAN
 SCALE: NTS

- LEGEND:**
- ① PILE BENT DESIGNATION
 - Ⓐ PILE ROW DESIGNATION
 - CONCRETE FILLED 30" DIA STEEL PIPE PILE

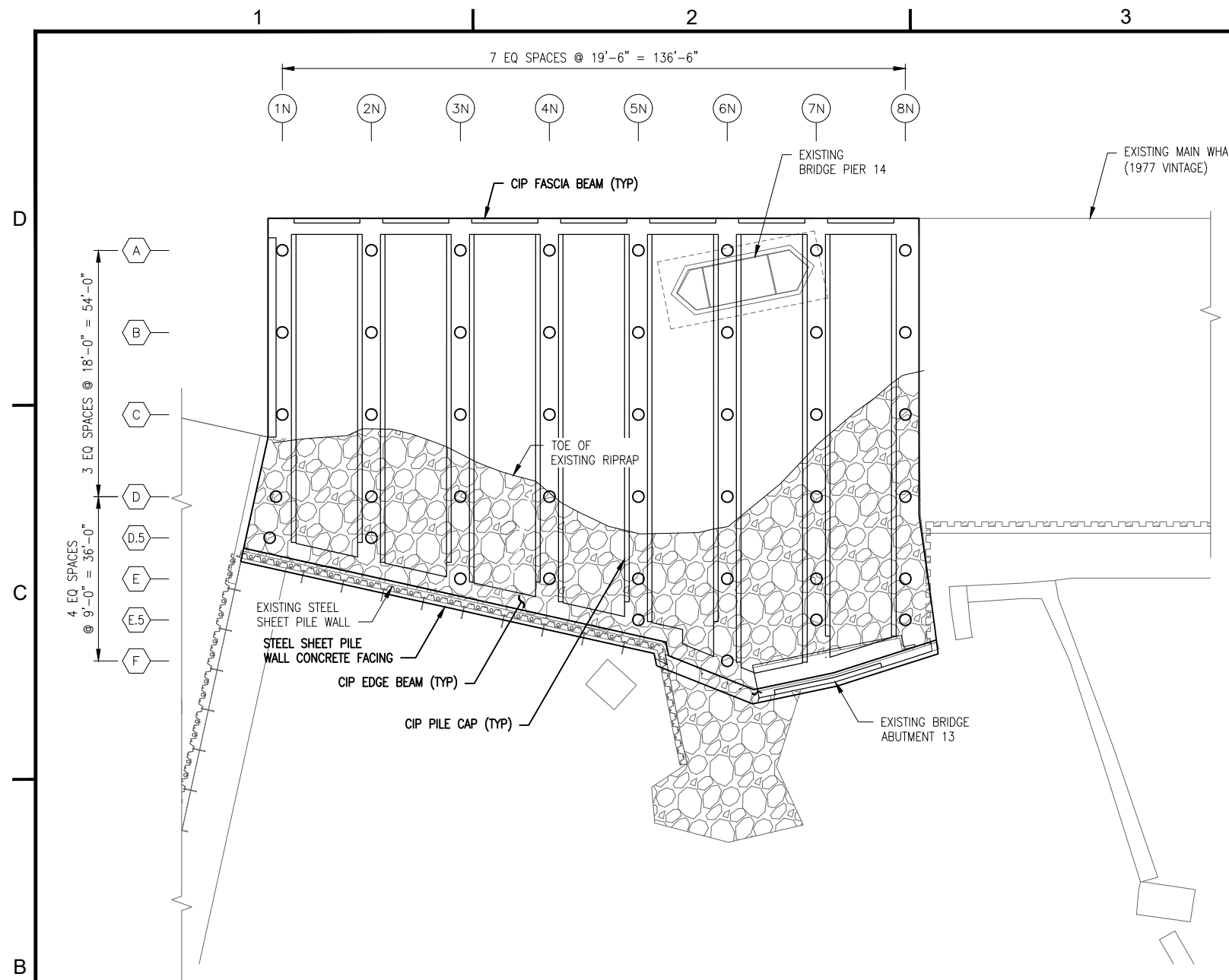
<p>603.766.1870 inquiry@appledoremarine.com Appledore Marine Engineering, LLC 600 State St, Suite E Portsmouth New Hampshire 03801</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>REVISION</th> <th>DATE</th> <th>DESCRIPTION</th> <th>BY</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	REVISION	DATE	DESCRIPTION	BY				
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<p>PEASE DEVELOPMENT AUTHORITY DIVISION OF PORTS AND HARBORS, 555 MARKET STREET, PORTSMOUTH, NH MARKET STREET MARINE TERMINAL FUNCTIONAL REPLACEMENT BARGE DOCK</p>									
<p>PROJECT No.: 5213 CAD DWG FILE: S111_permit_06_S-101.dwg DESIGNED BY: SND DRAWN BY: MDM CHECKED BY: NJE SCALE: AS SHOWN</p>									
<p>S-101</p>									
<p>SHEET 15 OF 18</p>									

CHECK GRAPHIC SCALE BEFORE USING.

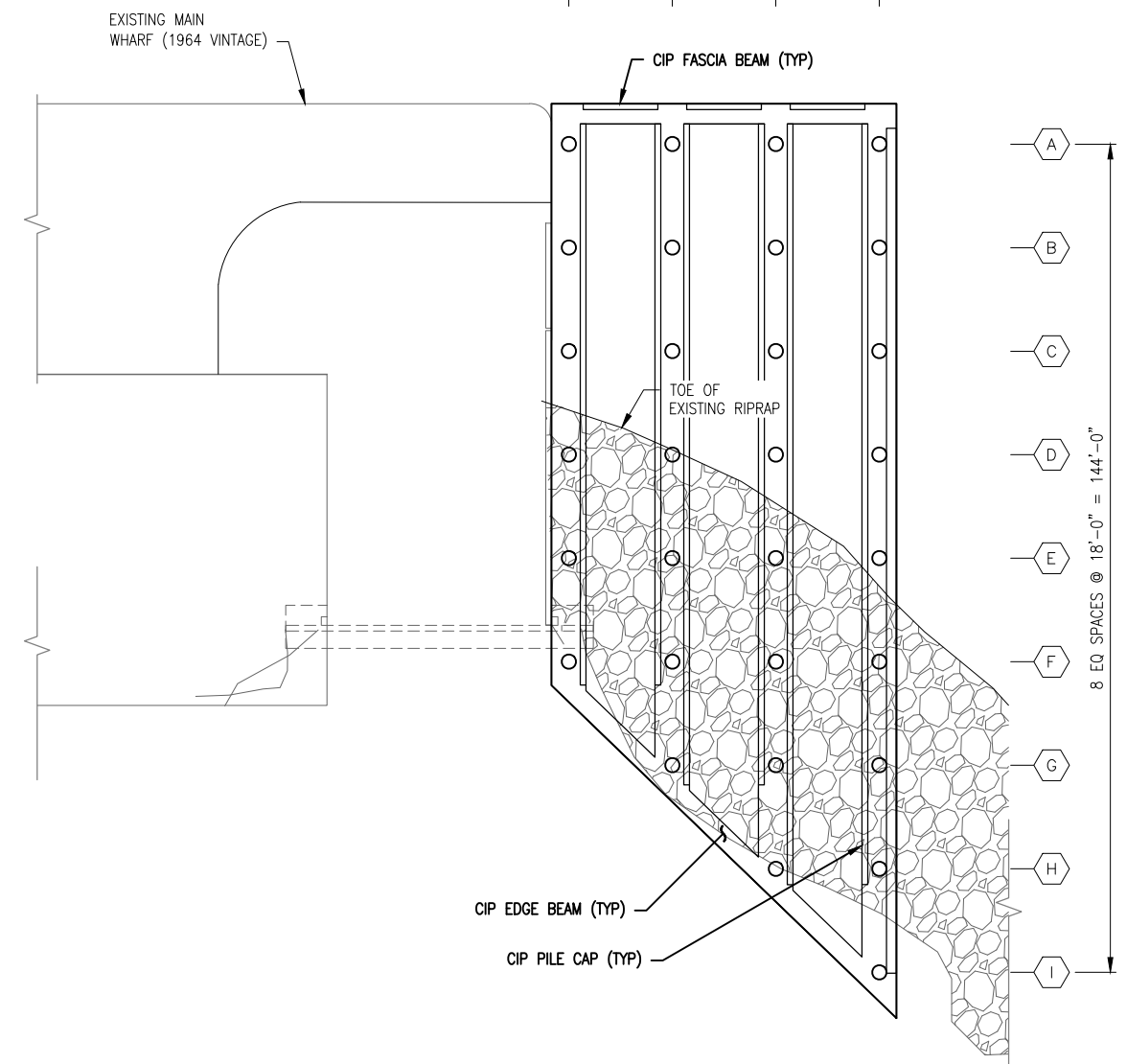


LEGEND:
 PILE ROW DESIGNATION

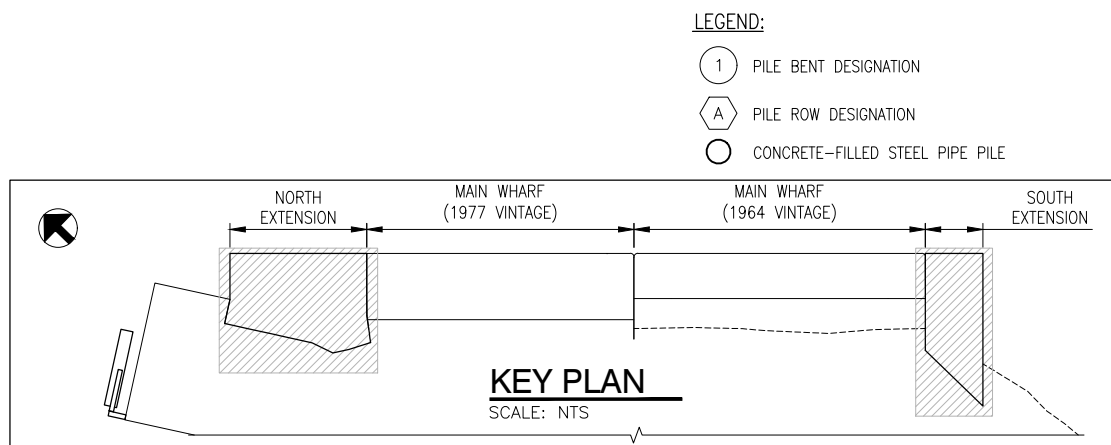
603.766.1870 inquiry@appledoremarine.com	DATE
Appledore Marine Engineering, LLC	TITLE
600 State St., Suite E Portsmouth New Hampshire 03801	REVISION
SUBMITTED BY:	DATE
DESIGNED BY: SMD	DESCRIPTION
DRAWN BY: MDM	BY
CHECKED BY: NJE	REVISION
SCALE: AS SHOWN	DATE
PEASE DEVELOPMENT AUTHORITY DIVISION OF PORTS AND HARBORS, 555 MARKET STREET, PORTSMOUTH, NH MARKET STREET MARINE TERMINAL FUNCTIONAL REPLACEMENT BARGE DOCK	
PILE SECTION AND DETAILS	
PROJECT No.: 5213	
CAD DWG FILE: S213_permit_06_S-101.dwg	
SHEET 16 OF 18	



NORTH WHARF EXTENSION FRAMING PLAN
 SCALE: 1/16"=1'-0"
 PLAN NORTH



SOUTH WHARF EXTENSION FRAMING PLAN
 SCALE: 1/16"=1'-0"
 PLAN NORTH



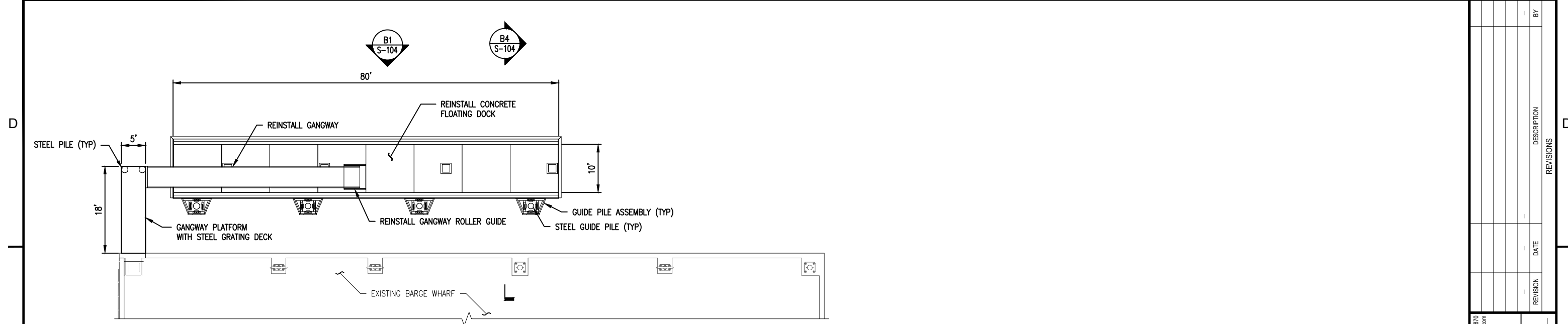
KEY PLAN
 SCALE: NTS

- LEGEND:**
- ① PILE BENT DESIGNATION
 - Ⓐ PILE ROW DESIGNATION
 - CONCRETE-FILLED STEEL PIPE PILE

<p>603.766.1870 inquiry@appledoremarine.com Appledore Marine Engineering, LLC 600 State St, Suite E Portsmouth New Hampshire 03801</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>REVISION</th> <th>DATE</th> <th>DESCRIPTION</th> <th>BY</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	REVISION	DATE	DESCRIPTION	BY				
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<p>S-103</p>									
<p>SHEET 17 OF 18</p>									

CHECK GRAPHIC SCALE BEFORE USING.

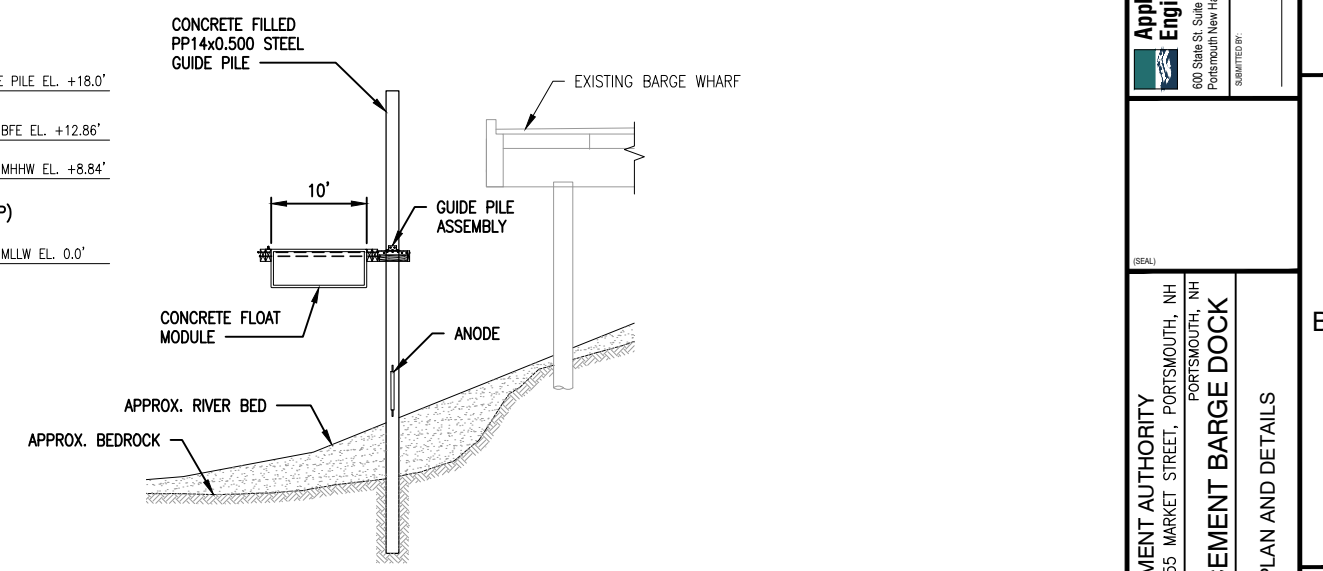
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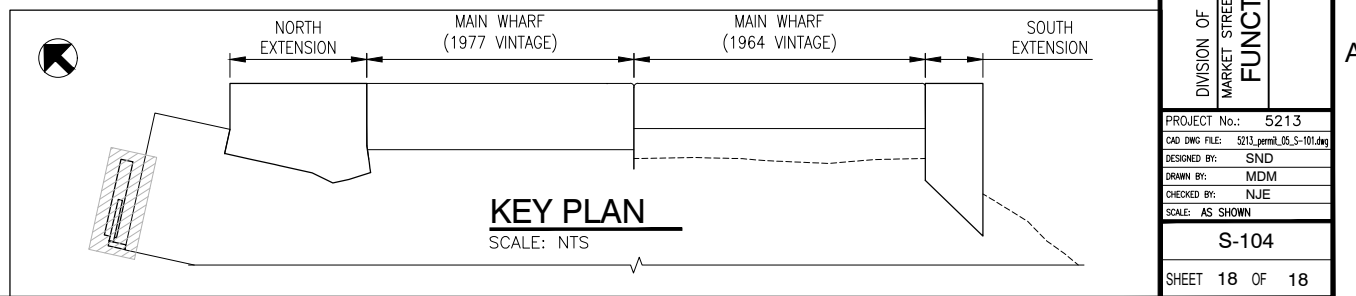
FLOATING DOCK PLAN
SCALE: 1"=10'-0"



FLOATING DOCK ELEVATION
SCALE: 1"=10'-0"



FLOATING DOCK SECTION
SCALE: 1"=10'-0"



KEY PLAN
SCALE: NTS

REVISION	DATE	DESCRIPTION	BY

603.786.1870
inquiry@appledoremarine.com
Appledore Marine Engineering, LLC
600 State St., Suite E
Portsmouth New Hampshire 03801
SUBMITTED BY: _____

PEASE DEVELOPMENT AUTHORITY
DIVISION OF PORTS AND HARBORS, 555 MARKET STREET, PORTSMOUTH, NH
MARKET STREET MARINE TERMINAL
FUNCTIONAL REPLACEMENT BARGE DOCK

PROJECT No.: 5213
CAD DWG FILE: S213_permit_06_S-101.dwg
DESIGNED BY: SND
DRAWN BY: MDM
CHECKED BY: NJE
SCALE: AS SHOWN