U.S. Department of Homeland Security
United States Coast Guard

BRIDGE PERMIT

(2-12-1)

30 MAY 2012

WHEREAS by Title V of an act of Congress approved August 2, 1946, entitled "General Bridge Act of 1946," as amended (33 U.S.C. 525-533), the consent of Congress was granted for the construction, maintenance and operation of bridges and approaches thereto over the navigable waters of the United States;

AND WHEREAS the Secretary of Homeland Security has delegated the authority of Section 502(b) of that act to the Commandant, U. S. Coast Guard by Department of Homeland Security Delegation Number: 0170.1;

AND WHEREAS before construction is commenced, the Commandant must approve the location and plans of any such bridge and may impose any specific conditions relating to the construction, maintenance and operation of the structure deemed necessary in the interest of public navigation, such conditions to have the force of law;

AND WHEREAS the - **STATE OF NEW HAMPSHIRE** - has submitted for approval the location and plans of a bridge project to be constructed across the Piscataqua River between Portsmouth, New Hampshire and Kittery, Maine;

NOW THEREFORE, This is to certify that the location and plans dated January 2012 are hereby approved by the Commandant, subject to the following conditions:

1. No deviation from the approved plans may be made either before or after completion of the structure unless the modification of said plans has previously been submitted to and received the approval of the Commandant.

2. The construction of falsework, pilings, cofferdams or other obstructions, if required, shall be in accordance with plans submitted to and approved by the Commander, First Coast Guard District, prior to construction of the bridge project. All work shall be so conducted that the free navigation of the waterway is not unreasonably interfered with and the present navigable depths are not impaired. Timely notice of any and all events that may affect navigation shall be given to the District Commander during construction of the bridge project. Methods shall be employed to ensure that there will be no increases of sedimentation and turbidity in the waterway during construction. The channel or channels through the structure shall be promptly cleared of all obstructions placed therein or caused by the construction of the bridge project to the satisfaction of the District Commander, when in the judgment of the District Commander the construction work has reached a point where such action should be taken, but in no case later than 90 days after the bridge project has been opened to traffic.

3. Issuance of this permit does not relieve the permittee of the obligation or responsibility for compliance with the provisions of any other law or regulation as may be under the jurisdiction of the U. S. Department of Commerce, National Marine Fisheries Service, or any other federal, state or local authority having cognizance of any aspect of the location, construction or maintenance of said bridge project.

4. The location of, and materials to be used in construction of, the pier protection fender system as shown on the approved plan sheets 2, 3 and 5 (of 5) dated January 2012 shall be submitted to the District Commander for approval prior to commencing construction of such system.

5. Clearance gauges shall be installed and maintained in a good and legible condition by and at the expense of the owner of the bridge project. The type of gauges and the locations in which they are to be installed will be submitted to the District Commander for approval.

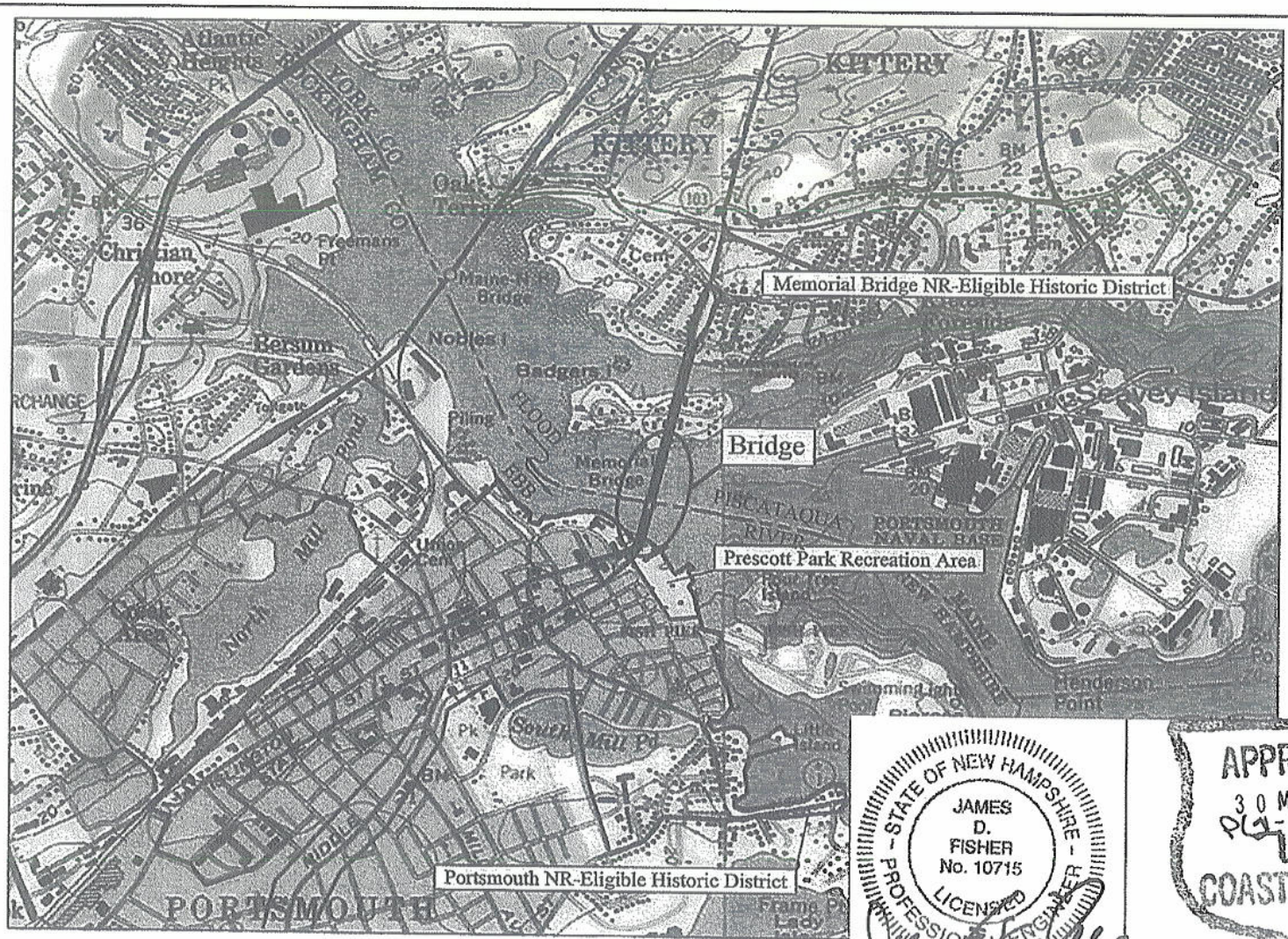
6. All parts of the existing to-be-replaced Memorial (U. S. 1) Bridge across Piscataqua River, mile 1.9, not utilized in the new bridge project, which are located in the waterway, shall be removed down to or below the mud line. All other parts shall be removed down to a minimum of three feet below the natural ground line. The waterway shall be cleared to the satisfaction of the District Commander. A period of 90 days subsequent to the opening to traffic of the new bridge project, mile 1.9, will be allowed for such removal and clearance.

7. When the proposed bridge project is no longer used for transportation purposes, it shall be removed in its entirety or to an elevation deemed appropriate by the District Commander and the waterway cleared to the satisfaction of the District Commander. Such removal and clearance shall be completed by and at the expense of the owner of the bridge project upon due notice from the District Commander.

8. The approval hereby granted shall cease and be null and void unless construction of the bridge project is commenced within three years and completed within five years after the date of this permit.

Hala Elgaaly

HALA ELGAALY, P.E.
Administrator, Bridge Program
U. S. Coast Guard
By direction of the Commandant



DATE: JANUARY 2012

Project Location

State of New Hampshire

0 1000 2000 Feet

Vicinity Map

CITY OF PORTSMOUTH, NH
TOWN OF KITTERY, ME

STATE No. 13678F
FED. No. A000 (911)

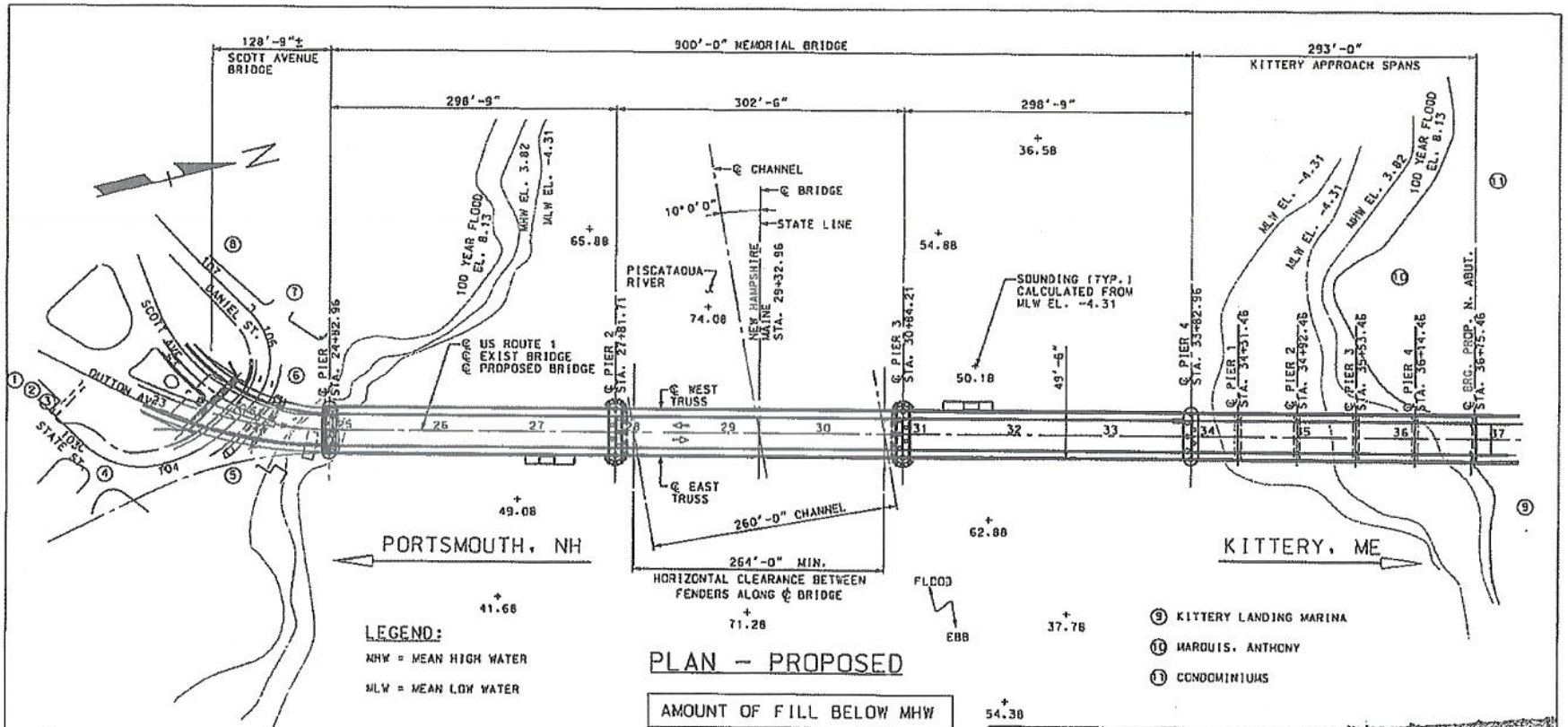
Memorial Bridge - U.S. Route 1
Piscataqua River, Mile Point 1.9
New Hampshire Department of Transportation
Portsmouth, NH / Kittery, ME Rockingham County, NH / York County, ME

U.S. COAST GUARD PERMIT PLANS

SHEET NUMBER
1
1 OF 5

STATE OF NEW HAMPSHIRE - PROFESSIONAL ENGINEER
JAMES D. FISHER
No. 10715
LICENSED

APPROVED
30 MAY 2012
P(2-12-1)
U.S.
COAST GUARD



LEGEND:

MHW = MEAN HIGH WATER

MLW = MEAN LOW WATER

PLAN – PROPOSED

AMOUNT OF FILL BELOW MHW	
SCOTT AVENUE	0
MEMORIAL BRIDGE	0
KITTERY APPROACH	46 CY

NOTES:

1. ALL ELEVATIONS REFER TO THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION TIDAL BENCH MARK AT PORTSMOUTH NAVY YARD FOR WHICH ELEVATION -4.31 IS MEAN LOW WATER PER NORTH AMERICAN VERTICAL DATUM OF 1988.
2. THE BRIDGES ARE LOCATED 1.9 MILES UPRIVER OF THE MOUTH OF PISCATAQUA RIVER.

① THIRTY EIGHT STATE ST. REALTY
② ANGELOPOULOS, JOHN C. & JANE C.
③ MARGESON FLEURY SNOW LIVING TRUST
④ CITY OF PORTSMOUTH PRESCOTT PARK
⑤ PIER 11 LLC
⑥ CITY OF PORTSMOUTH
⑦ HARBOR PLACE GROUP LLC
⑧ ST. JOHN'S CHURCH
⑨ KITTERY LANDING MARINA
⑩ MARQUIS, ANTHONY
⑪ CONDOMINIUMS

DATE: JANUARY 2012

STATE OF NEW HAMPSHIRE – JAMES P. FISHER No. 10715 LICENSED PROFESSIONAL ENGINEER

APPROVED
30 MAY 2012
P(2-12-1)
U.S. COAST GUARD

Project Location
State of New Hampshire

Proposed Bridge Plan

0 100 200 Feet

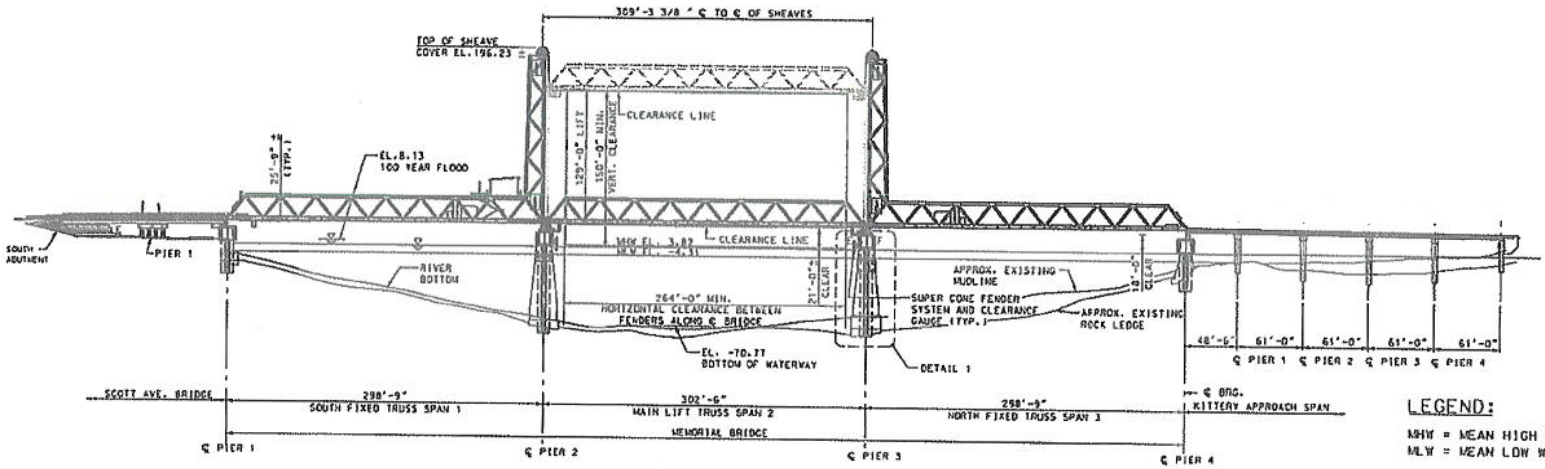
CITY OF PORTSMOUTH, NH
TOWN OF KITTERY, ME

STATE No. 13678F
FED. No. A000 (911)

Memorial Bridge - U.S. Route 1
Piscataqua River, Mile Point 1.9
New Hampshire Department of Transportation
Portsmouth, NH / Kittery, ME Rockingham County, NH / York County, ME

U.S. COAST GUARD PERMIT PLANS

SHEET NUMBER
2
2 OF 5

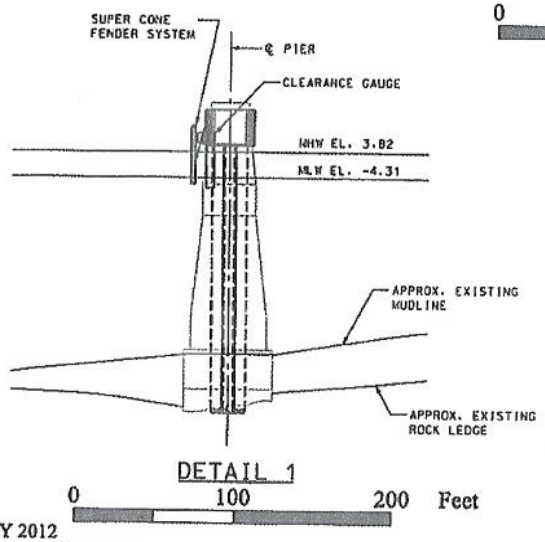


PROPOSED ELEVATION

0 100 200 Feet

LEGEND:

MHW = MEAN HIGH WATER
MLW = MEAN LOW WATER



DETAIL 1

0 100 200 Feet

NOTES:

1. ALL ELEVATIONS REFER TO THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION TIDAL BENCH MARK AT PORTSMOUTH NAVY YARD FOR WHICH ELEVATION -4.31 IS MEAN LOW WATER PER NORTH AMERICAN VERTICAL DATUM OF 1988.
2. SUPER CONE FENDER SYSTEM TO BE INSTALLED ON PIERS 2 AND 3.
3. CLEARANCE GAUGE TO BE PLACED AT PIER 2 NORTH SIDE OF WEST FACE AND PIER 3 SOUTH SIDE OF EAST FACE.
4. FOR SUPER CONE FENDER SYSTEM AND CLEARANCE GAUGE DETAILS, SEE SHEET NUMBER 5.

STATE OF NEW HAMPSHIRE - JAMES D. FISHER No. 10715 LICENSED PROFESSIONAL ENGINEER

APPROVED
30 MAY 2012
12-13-15
U.S. COAST GUARD

DATE: JANUARY 2012

State of New Hampshire

Proposed Elevations

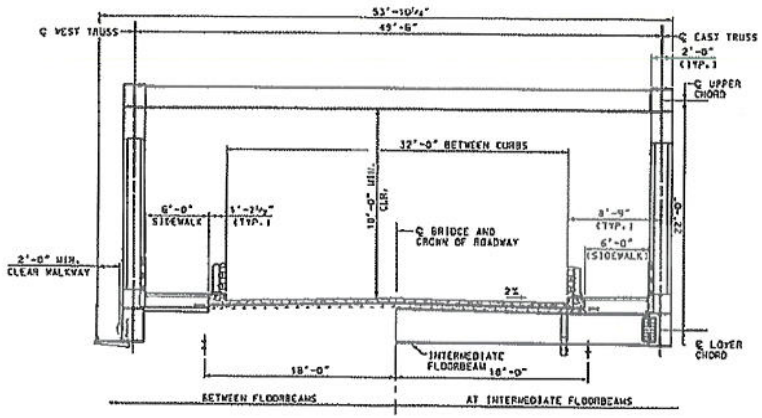
CITY OF PORTSMOUTH, NH
TOWN OF KITTERY, ME

STATE No. 13678F
FED. No. A000 (911)

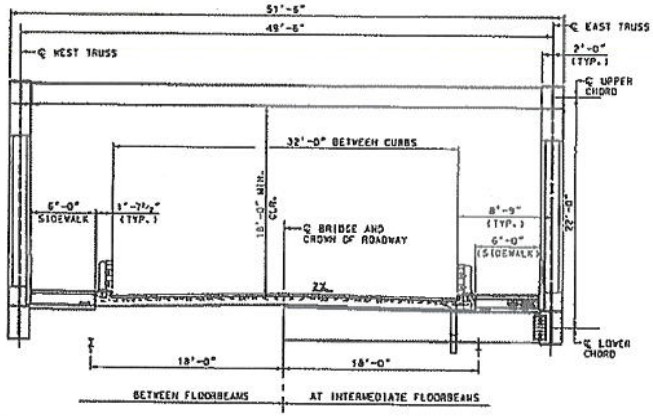
Memorial Bridge - U.S. Route 1
Piscataqua River, Mile Point 1.9
New Hampshire Department of Transportation
Portsmouth, NH / Kittery, ME Rockingham County, NH / York County, ME

U.S. COAST GUARD PERMIT PLANS

SHEET NUMBER 3



PROPOSED LIFT TRUSS SPAN CROSS SECTION



PROPOSED FIXED TRUSS SPAN CROSS SECTION

STATE OF NEW HAMPSHIRE
JAMES D. FISHER No. 10715 LICENSED PROFESSIONAL ENGINEER

APPROVED
30 MAY 2012
P(2-12-1)
U.S. COAST GUARD

DATE: JANUARY 2012

Proposed Typical Section

Project Location

State of New Hampshire

0 10 20 Feet

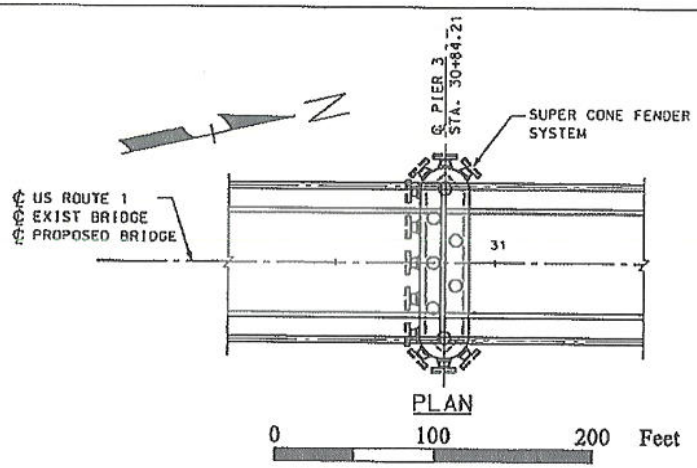
CITY OF PORTSMOUTH, NH
TOWN OF KITTERY, ME

STATE No. 13678F
FED. No. A000 (911)

Memorial Bridge - U.S. Route 1
Piscataqua River, Mile Point 1.9
New Hampshire Department of Transportation
Portsmouth, NH / Kittery, ME Rockingham County, NH / York County, ME

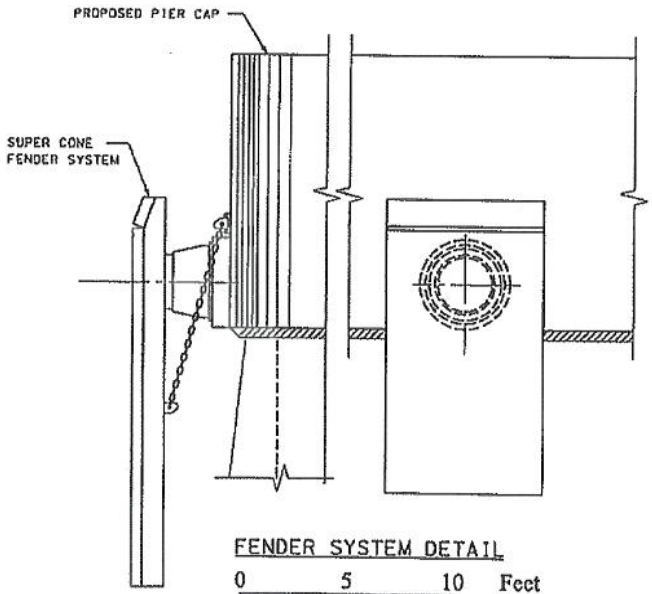
U.S. COAST GUARD PERMIT PLANS

SHEET NUMBER
4
4 OF 5



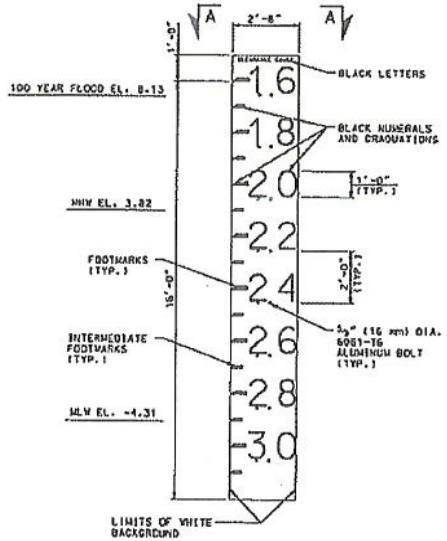
PLAN

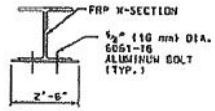
0 100 200 Feet



FENDER SYSTEM DETAIL

0 5 10 Feet





CLEARANCE GAUGE DETAIL SECTION A-A

0 2.5 5 10 Feet

NOTES:

1. ALL ELEVATIONS REFER TO THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION TIDAL BENCH MARK AT PORTSMOUTH NAVY YARD FOR WHICH ELEVATION -4.31 IS MEAN LOW WATER PER NORTH AMERICAN VERTICAL DATUM OF 1988.
2. SUPER CONE FENDER SYSTEM TO BE INSTALLED ON PIERS 2 AND 3. PIER 3 SHOWN. PIER 2 OPPOSITE HAND.
3. CLEARANCE GAUGE NUMERALS INDICATE DISTANCE IN FEET BELOW NAVIGATION SPAN LOW STEEL ELEVATION.

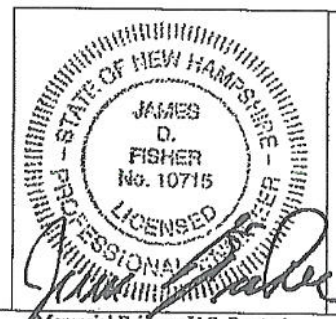
   HYDROLOGIC DATA

   MEAN LOW WATER = -4.31 FT

   MEAN HIGH WATER = 3.82 FT

   100 YEAR FLOOD = 8.13 FT

4. CLEARANCE GAUGE TO BE PLACED AT PIER 2 NORTH SIDE OF WEST FACE AND PIER 3 SOUTH SIDE OF EAST FACE.



DATE: JANUARY 2012

State of New Hampshire

Proposed Channel Pier Fender and Clearance Gauge Details

CITY OF PORTSMOUTH, NH
TOWN OF KITTERY, ME

STATE No. 13678F
FED. No. A000 (911)

Memorial Bridge - U.S. Route 1
Piscataqua River, Mile Point 1.9
New Hampshire Department of Transportation
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U.S. COAST GUARD PERMIT PLANS

SHEET NUMBER 5

5 OF 5