



Commander (dpb)
First Coast Guard District
1 South Street Battery
Park Building
New York, NY 10004-1466

February 14, 2020

PUBLIC NOTICE 1-176

Subject: PROPOSED REPLACEMENT OF THE HENDERSON NO. 600 BRIDGE
BETWEEN PROVIDENCE AND EAST PROVIDENCE IN PROVIDENCE
COUNTY, RHODE ISLAND

All interested parties are notified that the Commander, First Coast Guard District, has received an application from the Rhode Island Department of Transportation (RIDOT) for approval of the location and plans for replacement of a fixed highway bridge over a navigable waterway of the United States.

WATERWAY AND LOCATION: Seekonk River, 1.5 miles above the mouth of the waterway between Providence and East Providence, Rhode Island.

CHARACTER OF WORK: The character of the work is to replace a bridge which has been rated in poor condition since 1996, is structurally deficient and has reached the end its service life. The Bridge and Expressway were constructed in 1969 and were part of a planned freeway that was never fully constructed. The new bridge will include three 11-foot travel lanes, two westbound and one eastbound, two 3.5 foot shoulders, and a 12 foot shared use path. The new bridge will be constructed on the existing-in-water foundations. Portions of the in-water foundation not directly supporting the new bridge will be reduced to below the mud-line. As part of the staged construction, temporary shoring towers will be constructed to support the roadway carrying traffic while the new bridge is constructed. All parts of the superstructure of the existing bridge will be removed entirely. The center and northern foundation columns will be used to support superstructure of the new bridge. The temporary shoring towers and southern foundation column will be removed to the top of the bridge foundation.

MINIMUM NAVIGATIONAL CLEARANCES:

	Existing	Proposed
Horizontal (normal to axis of the channel)	150 feet	150 feet
Vertical (above MHW)	42 feet	42 feet

ENVIRONMENTAL CONSIDERATION: The Federal Highway Administration is the lead Federal agency under the National Environmental Policy Act (NEPA). The FHWA is acting on behalf of the U.S. Coast Guard for all environmental control laws. The FHWA completed a Categorical Exclusion Determination on January 16, 2020.

The project is not considered an encroachment on the 100-year floodplain. The 100-year flood elevation is +12.0 feet (NAVD 1988).

A Water Quality Certification from the Rhode Island Department of Environmental Management will be applied for.

The applicant has certified that the project is consistent with the State of Rhode Island's coastal zone management program. The State of Rhode Island has yet to concur with this certification.

The decision as to whether to grant approval of the location and plans for the proposed action rests primarily upon the effect it has on navigation.

SOLICITATION OF COMMENTS: Mariners are requested to comment on navigational safety issues, including the need for clearance gauges, the extent of nighttime navigation, and the need for bridge lighting. Boat owners are requested to provide information about their vessels including type of vessel, length overall, draft, beam, and height from the waterline to the highest fixed point and to appurtenant structures (e.g., tuna towers, flying bridges, fixed antennas and radar units).

Interested parties are requested to express their views in writing on the proposed bridge project, giving sufficient detail to establish a clear understanding of their reasons for support of or opposition to the proposed work. Comments will be received at the office of the Commander (dpb), First Coast Guard District, Battery Park Building, 1 South Street, New York, NY 10004-1466 through March 16, 2020. These comments will be public information and made part of the record.

We will forward comments of an environmental nature such as those regarding wildlife refuges, water fowl refuges, public parks, historic sites, wetlands, flood plain issues, air quality, water quality, etc. to the Federal Highway Administration for appropriate handling.

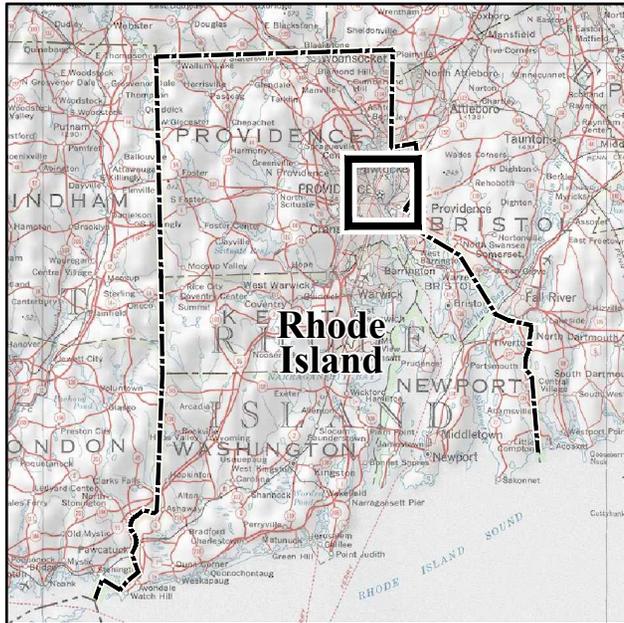
It is requested that this information be brought to the attention of any person having an interest who may not have received this public notice. Plans of the proposed project are included with this public notice.

FOR THE DISTRICT COMMANDER:

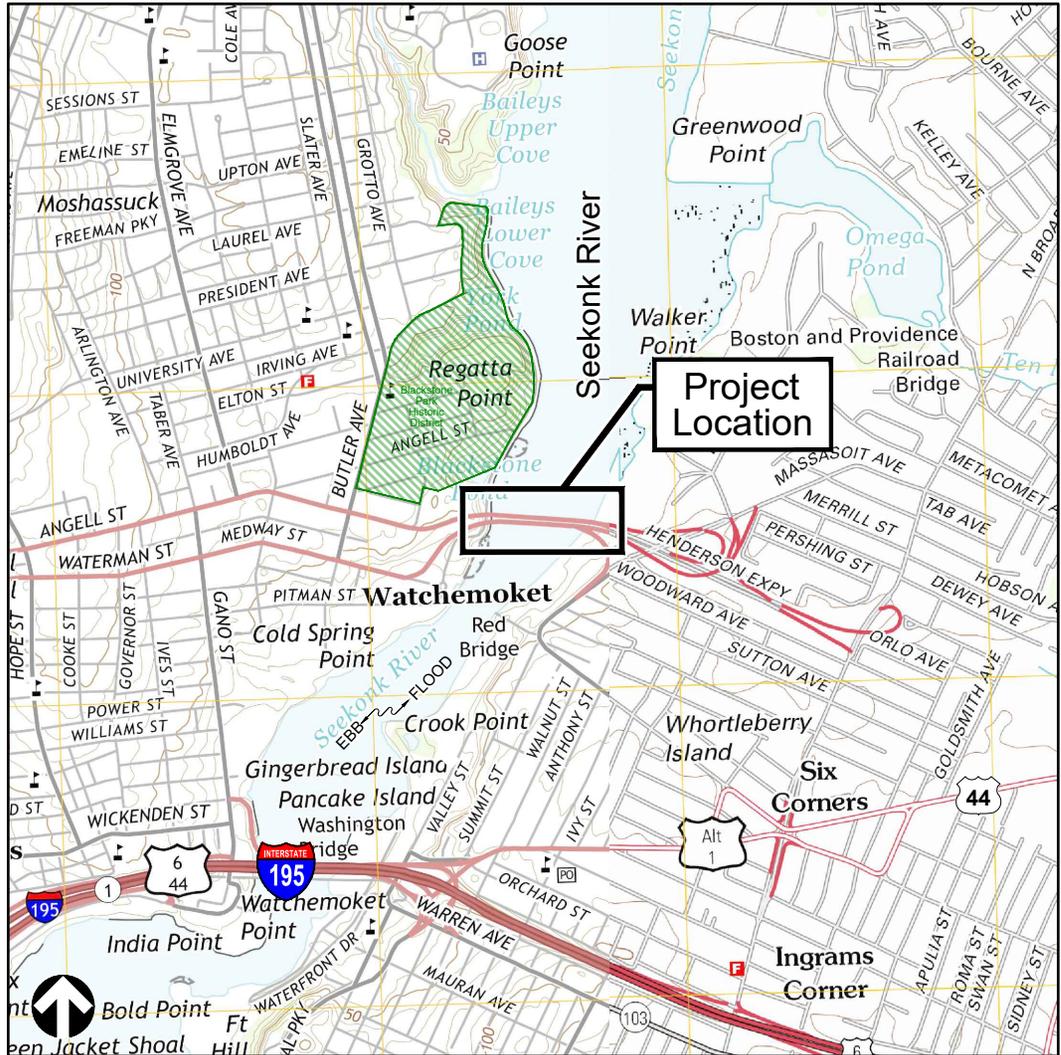
//s//

C.J. Bisignano
Supervisory Bridge Management Specialist
U.S. Coast Guard
By direction

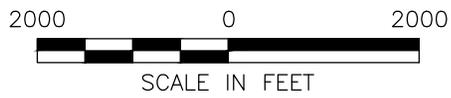
This is a web-searchable copy and is not the official, signed version; however, other than the signature being omitted, it is a duplicate of the official version.



VICINITY PLAN



LOCATION PLAN



Thomas W. Hennessy

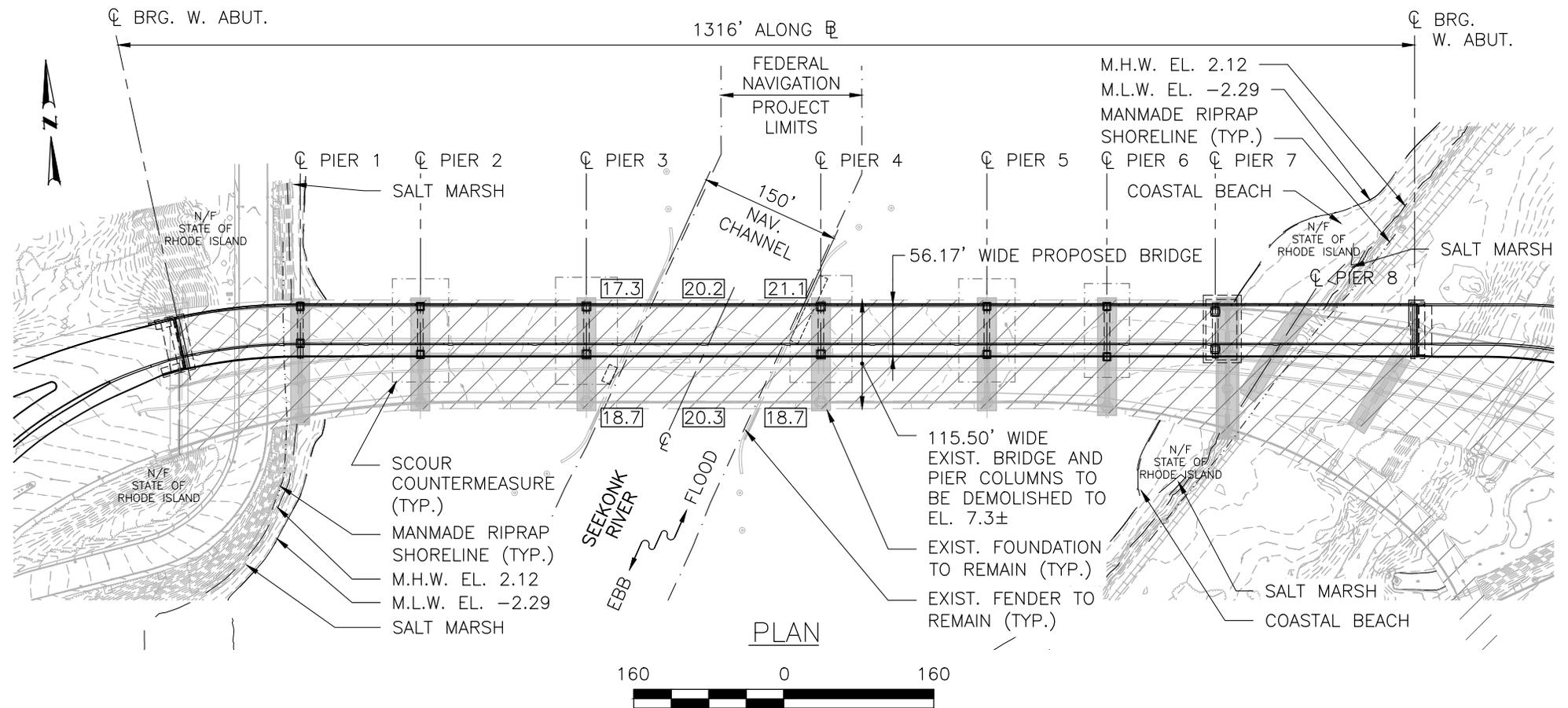
No. 7819

REGISTERED PROFESSIONAL ENGINEER (CIVIL)

Thomas W. Hennessy

1/30/20

APPLICANT: RHODE ISLAND DEPARTMENT OF TRANSPORTATION	HENDERSON BRIDGE NO. 600 SEEKONK RIVER (MILE 1.50) PROVIDENCE/EAST PROVIDENCE, PROVIDENCE COUNTY, RHODE ISLAND	SHEET NUMBER 1 OF 6
CONSULTANT: 1 Cedar Street Suite 400 Providence, RI 02903 401.272.8100	LOCATION AND VICINITY MAP	DATE: 1/30/20



NOTES

1. ALL ELEVATIONS ARE BASED ON NAVD 1988. (ADD 1.3 FT TO CONVERT FROM THE EXISTING BRIDGE PLAN ELEVATIONS TO NAVD 1988).
2. THE NEW BRIDGE WILL REUSE EXISTING PIER COLUMNS BELOW ELEVATION 7.3 AND FOUNDATIONS AT PIERS 1 TO 6.
3. PIER 7 IS ON NEW FOUNDATION 12'-6" WEST OF EXISTING PIER. PIER 7 CONCRETE FILL VOLUME FOUNDATION BELOW WATER = 462 CY.
4. EXISTING NAVIGATION CHANNEL TIMBER FENDER SYSTEM TO REMAIN. THE FENDER SYSTEM IS BEING REHABILITATED PRIOR TO RECONSTRUCTION OF HENDERSON BRIDGE.
5. SCOUR COUNTER MEASURE VOLUME = 431 CY TOTAL. PERMITTING AGENCY FOR FILL AND SCOUR PROTECTION SHALL BE U.S. ARMY CORPS OF ENGINEERS.
6. SCOUR HOLE FILL VOLUME=220 C.Y. AT PIERS 2, 4, 5 AND 6. PERMITTING AGENCY FOR FILL SCOUR PROTECTION SHALL BE U.S. ARMY CORPS OF ENGINEERS.
7. THE [XX] SYMBOL DENOTES CHANNEL DEPTH AT MLW.
8. PIER 8 TO BE REMOVED DOWN TO MUD LINE AND NOT REPLACED.
9. M.L.W. AND M.H.W. ARE FROM NOAA STATION ID #8454000 IN THE PROVIDENCE RIVER.

Thomas W. Hennessy

STATE OF RHODE ISLAND

No. **7819**

REGISTERED PROFESSIONAL ENGINEER (CIVIL)

Thomas W. Hennessy

1/30/20

APPLICANT:
RHODE ISLAND DEPARTMENT OF TRANSPORTATION

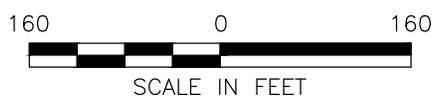
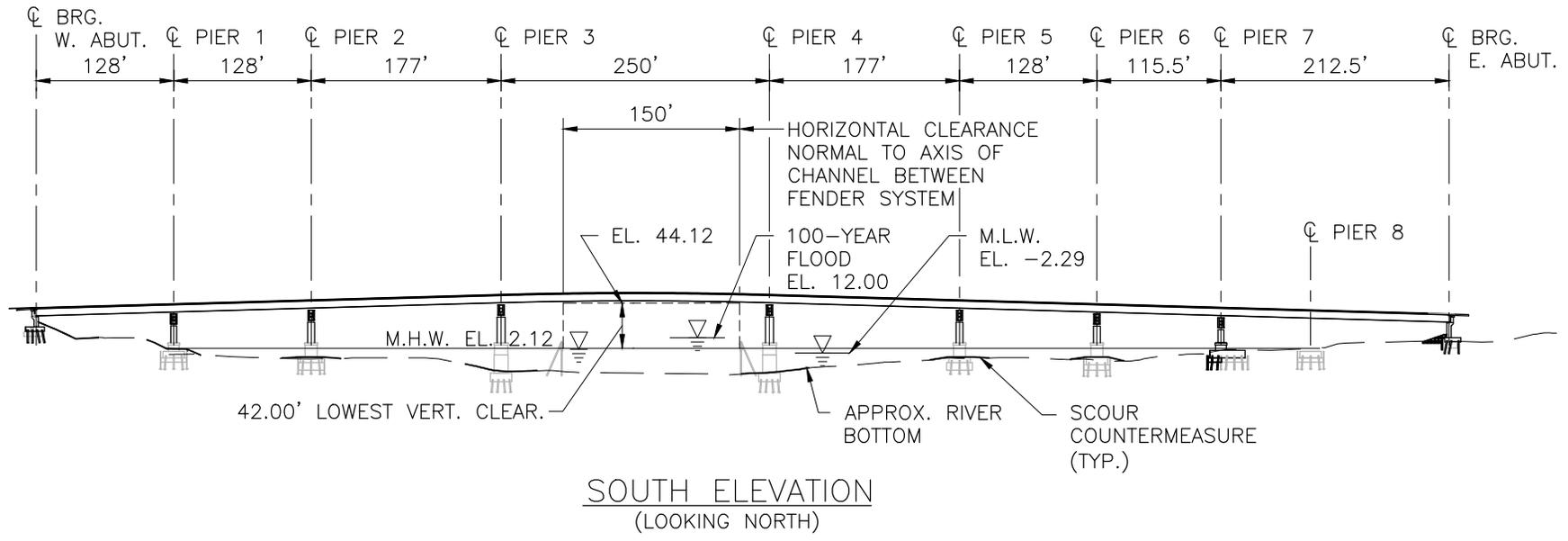
CONSULTANT:
1 Cedar Street
Suite 400
Providence, RI 02903
401.272.8100

**HENDERSON BRIDGE NO. 600
SEEKONK RIVER (MILE 1.50)**
PROVIDENCE/EAST PROVIDENCE,
PROVIDENCE COUNTY, RHODE ISLAND

BRIDGE PLAN

SHEET NUMBER
2
OF 6

DATE: 1/30/20



NOTES

1. ALL ELEVATIONS ARE BASED ON NAVD 1988. (ADD 1.3 FT TO CONVERT FROM THE EXISTING BRIDGE PLAN ELEVATIONS TO NAVD 1988).
2. THE NEW BRIDGE WILL REUSE EXISTING PIER COLUMNS BELOW ELEVATION 7.3 AND FOUNDATIONS AT PIERS 1 TO 6.
3. PIER 7 IS ON NEW FOUNDATION 12'-6" WEST OF EXISTING PIER. PIER 7 CONCRETE FILL VOLUME FOUNDATION BELOW WATER = 462 CY.
4. EXISTING NAVIGATION CHANNEL TIMBER FENDER SYSTEM TO REMAIN. THE FENDER SYSTEM IS BEING REHABILITATED PRIOR TO RECONSTRUCTION OF HENDERSON BRIDGE.
5. SCOUR COUNTER MEASURE VOLUME = 431 CY TOTAL. PERMITTING AGENCY FOR FILL AND SCOUR PROTECTION SHALL BE U.S. ARMY CORPS OF ENGINEERS.
6. SCOUR HOLE FILL VOLUME=220 C.Y. AT PIERS 2, 4, 5 AND 6. PERMITTING AGENCY FOR FILL SCOUR PROTECTION SHALL BE U.S. ARMY CORPS OF ENGINEERS.
7. PIER 8 TO BE REMOVED DOWN TO MUD LINE AND NOT REPLACED.
8. M.L.W. AND M.H.W. ARE FROM NOAA STATION ID #8454000 IN THE PROVIDENCE RIVER.

Thomas W. Hennessy

Thomas W. Hennessy

REGISTERED PROFESSIONAL ENGINEER (CIVIL)

1/30/20

APPLICANT:
RHODE ISLAND DEPARTMENT OF TRANSPORTATION

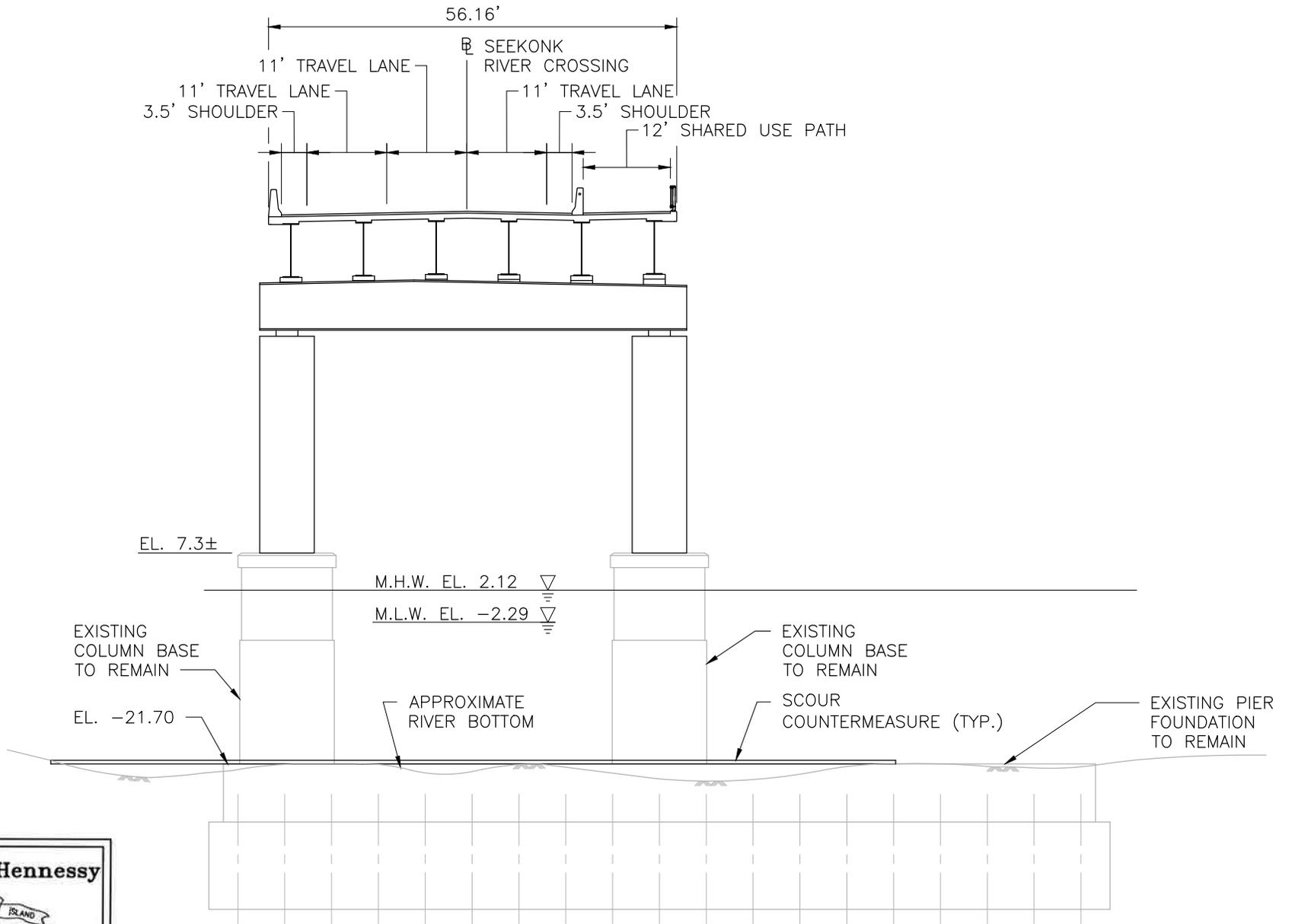
CONSULTANT:
1 Cedar Street
Suite 400
Providence, RI 02903
401.272.8100

**HENDERSON BRIDGE NO. 600
SEEKONK RIVER (MILE 1.50)**
PROVIDENCE/EAST PROVIDENCE,
PROVIDENCE COUNTY, RHODE ISLAND

BRIDGE ELEVATION

SHEET NUMBER
3
OF 6

DATE: 1/30/20



Thomas W. Hennessy

STATE OF RHODE ISLAND

No. 7819

REGISTERED PROFESSIONAL ENGINEER (CIVIL)

Thomas W. Hennessy

1/30/20



APPLICANT:
RHODE ISLAND DEPARTMENT OF TRANSPORTATION

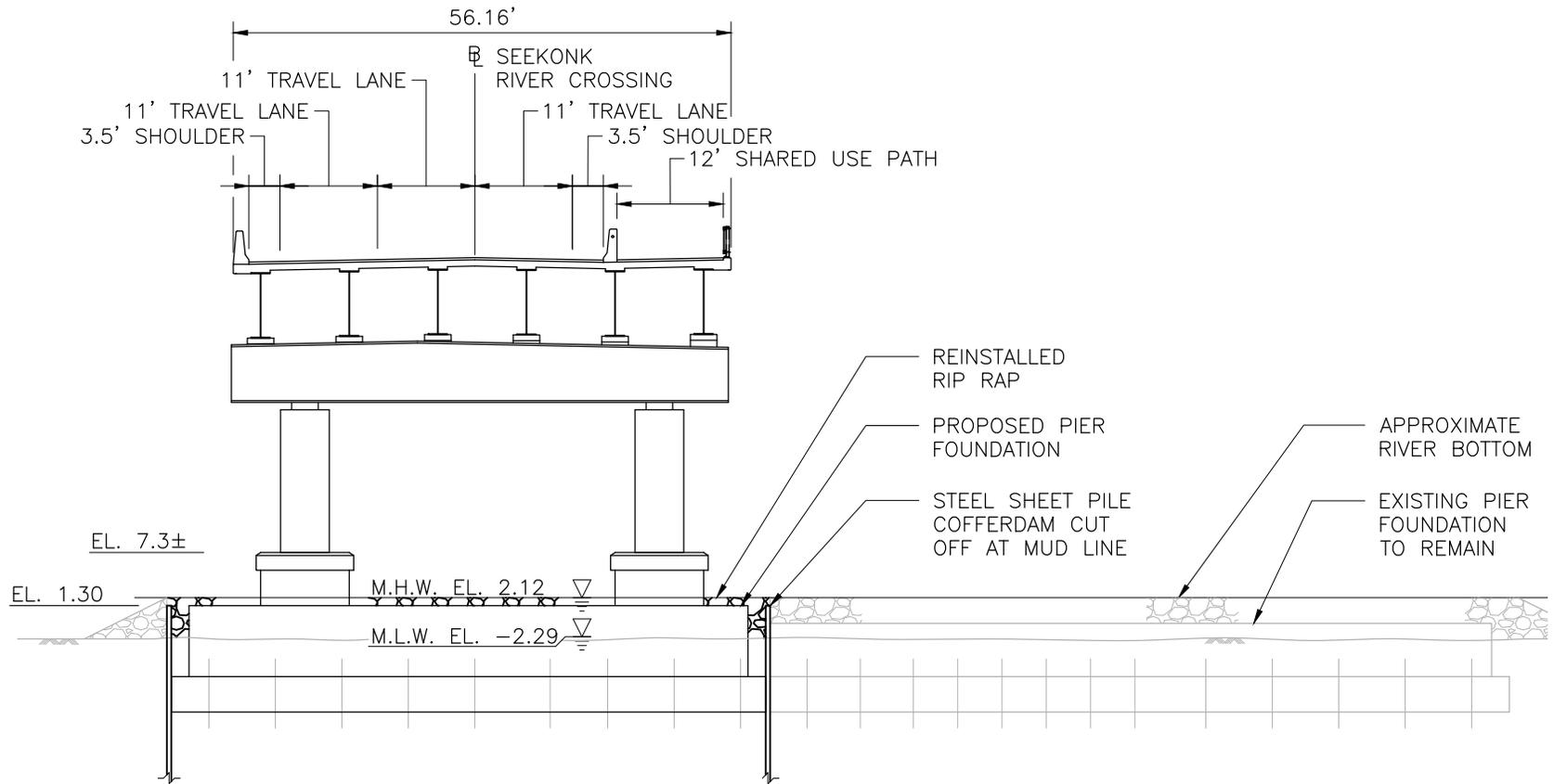
CONSULTANT:
 **vhb**
 1 Cedar Street
 Suite 400
 Providence, RI 02903
 401.272.8100

HENDERSON BRIDGE NO. 600
SEEKONK RIVER (MILE 1.50)
 PROVIDENCE/EAST PROVIDENCE,
 PROVIDENCE COUNTY, RHODE ISLAND

TYPICAL BRIDGE SECTION

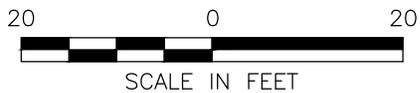
SHEET NUMBER
4
 OF 6

DATE: 1/30/20



Thomas W. Hennessy
 No. **7819**
 REGISTERED PROFESSIONAL ENGINEER (CIVIL)

Thomas W. Hennessy
 1/30/20



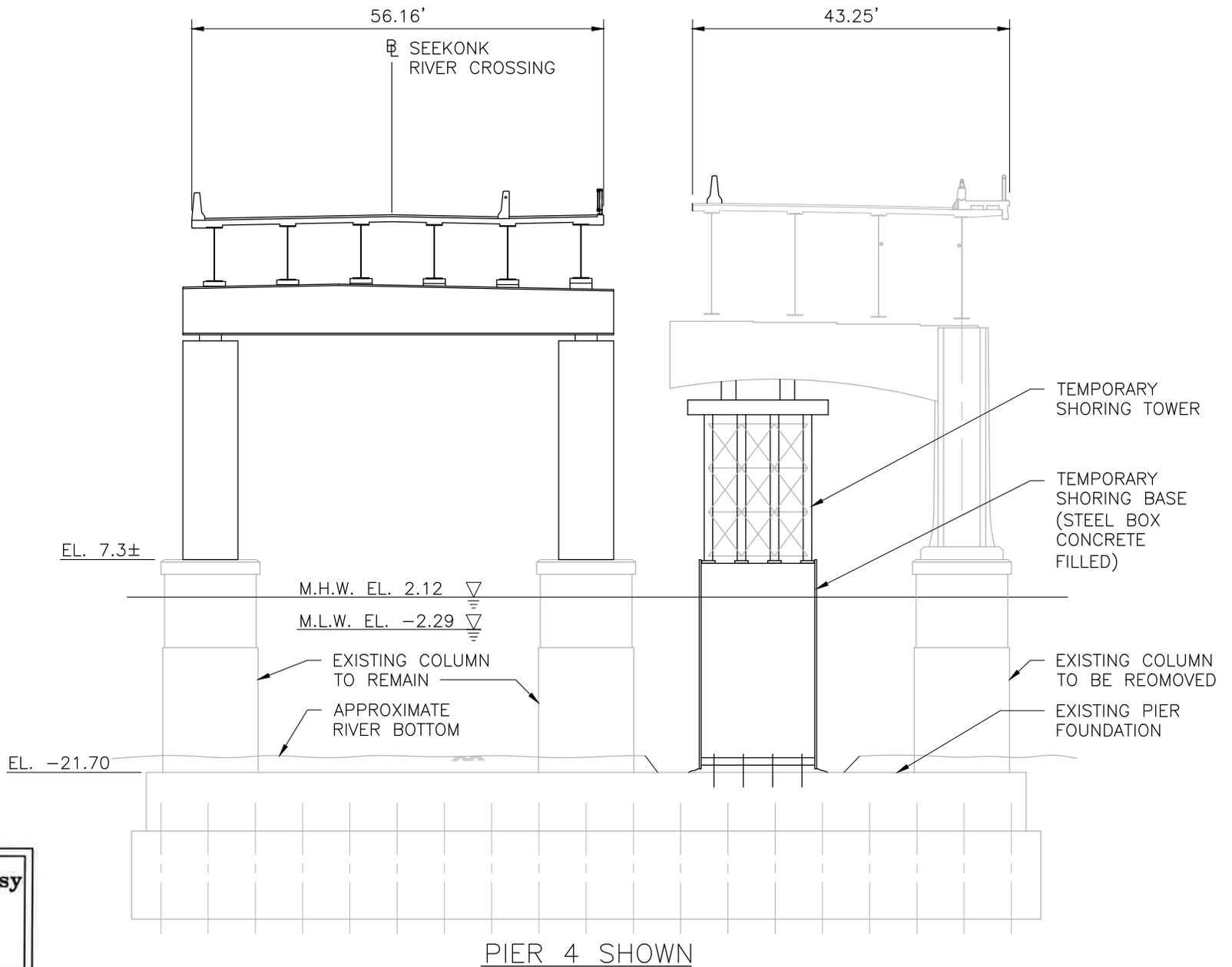
APPLICANT:
RHODE ISLAND DEPARTMENT OF TRANSPORTATION

CONSULTANT:
vhb
 1 Cedar Street
 Suite 400
 Providence, RI 02903
 401.272.8100

HENDERSON BRIDGE NO. 600
SEEKONK RIVER (MILE 1.50)
 PROVIDENCE/EAST PROVIDENCE,
 PROVIDENCE COUNTY, RHODE ISLAND

BRIDGE SECTION PIER 7

SHEET NUMBER
5
 OF 6
 DATE: 1/30/20



NOTE
 PIER 4 SHOWN, TEMPORARY SHORING AT
 PIERS 2, 3, 5 AND 6 ARE SIMILAR.

Thomas W. Hennessy

No. 7819

REGISTERED PROFESSIONAL ENGINEER (CIVIL)

Thomas W. Hennessy

1/30/20



APPLICANT:
RHODE ISLAND DEPARTMENT OF TRANSPORTATION

CONSULTANT:
 1 Cedar Street
 Suite 400
 Providence, RI 02903
 401.272.8100

**HENDERSON BRIDGE NO. 600
 SEEKONK RIVER (MILE 1.50)**
 PROVIDENCE/EAST PROVIDENCE,
 PROVIDENCE COUNTY, RHODE ISLAND

TEMPORARY SHORING SECTION

SHEET NUMBER
6
 OF 6

DATE: 1/30/20