

# BlueShore

ENGINEERING L.L.C.

RECEIVED

BY STANDARDS AND APPEALS

Richard W. Gilbert, P.E.

2017 SEP 18 P 7:02

CAL. NO.

ATTN: Victoria A. Lawrence  
NYS Department of Environmental Conservation  
47-40 21<sup>st</sup> Street  
Long Island City, NY 11101

October 28, 2015

**RE: Application ID #: 2-6304-01724/00001**  
**By CSC 4540 LLC**  
**To Replace the Existing Deteriorated Timber Bulkhead at the Southeastern Corner of**  
**Anable Basin in Long Island City, Queens County, NY**

Dear Ms. Lawrence,

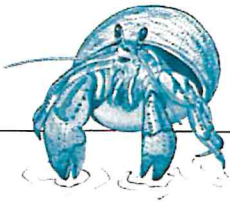
We are hereby submitting revised drawings to address the Notice of Incomplete Application (NOIA), dated October 23, 2015. Section 01.1 of this package contains itemized responses to all NOIA comments; in this section, each of the comments from the notice is reproduced in italics with our responses directly following.

We trust these responses have addressed any additional concerns regarding this application. Thank you for your assistance.

Sincerely,

*RW Gilbert*

Richard W. Gilbert, PE  
President



# **BlueShore**

ENGINEERING L.L.C.

Richard W. Gilbert, P.E.

---

**Application ID #: 2-6304-01724/00001**

**Batch #: 776379**

Project Address: 45-40 Vernon Blvd.; Long Island City, NY 11101

Date: October 28, 2015

Applicant:

**CSC 4540 LLC, Owner ID #: 1736830**

757 Third Avenue, 17<sup>th</sup> Floor

New York, NY 10017

(917) 847-9876

Contact: Brent Carrier, Authorized Representative

Agent:

**BlueShore Engineering LLC**

1029 Teaneck Road, 2<sup>nd</sup> Floor

Teaneck, NJ 07666

(201) 817-2001

Contact: Richard Gilbert, PE

Application Package Distribution:

**NYS DEC Region 2**

**Regional Permit Administrator**

1 Hunter's Point Plaza

47-40 21<sup>st</sup> Street

Long Island City, NY 11101-5407

(718) 482-4900

## Table of Contents

### 01 Permit Application

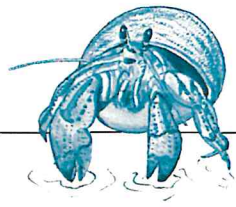
01.1	NYSDEC "Notice of Incomplete Application" Response .....	3
01.2	Joint Application Form .....	7

### 02 Project Drawings (Revised)

R-4.1	Proposed Site Plan.....	9
R-5.0	Section Plan .....	10
R-5.1	Sections .....	11
R-5.2	Sections .....	12

### 03 Detailed Cross Section Drawings (Revised)

R-6.0	Section Key.....	13
R-6.1	Sections .....	14
R-6.2	Sections .....	15
R-6.3	Sections .....	16
R-6.4	Sections .....	17
R-6.5	Sections .....	18
R-6.6	Sections .....	19
R-6.7	Sections .....	20



## 01.1 NYSDEC "Notice of Incomplete Application" Responses

1. *"Provide measurements from the seaward face of the proposed bulkhead to a fixed permanent structure (such as the seaward face of a building) on the following plans: R-5.1, R-6.1 to R-6.7. Some plans show the measurement from the landward face of the bulkhead; however, the measurements should be taken from the seaward face."*

Measurements from the seaward face of the proposed bulkhead to a fixed permanent structure are provided on all specified revised drawings, including R-4.1 (Proposed Site Plan), R-5.0 (Section Plan), R-5.1 through R-5.2 (Sections) and R-6.1 through R-6.7 (Sections).

2. *"Please submit cross sections of existing conditions that correspond to the previously submitted proposed cross sections (R-5.1, R-5.2, R-6.1 to R-6.7). Both existing and proposed cross sections should show the distance from the seaward face of the bulkhead to the same fixed permanent structure."*

Both existing and proposed cross sections are shown in all specified revised drawings, including R-5.1 through R-5.2 (Sections) and R-6.1 through R-6.7 (Sections). The existing bulkhead is indicated with a dashed line in these sections. Measurements from the seaward face of the proposed and existing bulkhead to a fixed permanent structure are provided on these sections.

3. *"The applicant must propose mitigation for the 24 cubic yards of fill (bulkhead and backfill) that will be placed within 73 square feet of tidal wetlands. For this type of project, the Department prefers fill removal in order to create new tidal wetlands at a 2:1 ratio."*

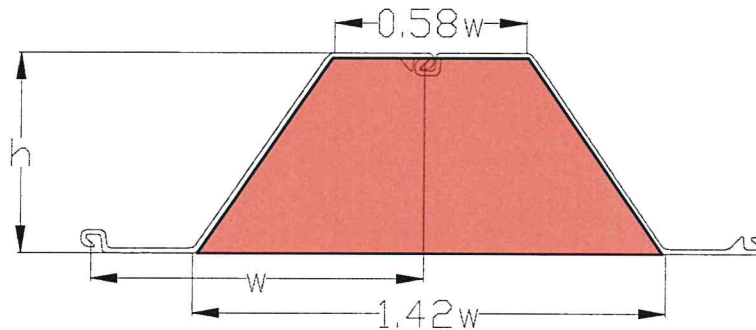
In order to satisfy NYSDEC requirements, the 40± linear feet of proposed sheet-pile bulkhead running east-to-west will be installed directly against the seaward face of the existing timber bulkhead. By doing so, the distance between the replacement structure and the existing structure is minimized. Furthermore, removing the top 4± feet of existing timbers (that protrude seaward of the bulkhead line) will result in an average 3.5-inch gap between the landward face of the proposed sheet-pile bulkhead and the seaward face of the existing timber bulkhead (see attached R-6.1 through R-6.3 drawings).

The 77 linear feet of proposed sheet-pile bulkhead running north-to-south will be installed directly against the landward face of the existing timber bulkhead (see attached R-6.4 through R-6.7 drawings). After installation, the existing timber bulkhead will be removed to below the mudline. By removing the existing timbers after the installation of the new sheet-pile, the risk for discharge of potentially contaminated media into the marine environment is minimized.

As a result, the project will involve a net negative amount of fill (approximately -28 cubic yards) placed into the adjacent tidal wetlands.

#### Fill Calculations

If the proposed sheet-pile bulkhead is placed directly against the seaward face of the existing bulkhead along the southern-most edge of Anable Basin, then approximately 221 cubic feet (8 cubic yards) of backfill will be required below MHW along the 40± linear feet of bulkhead. It is important to note that where backfill is necessary, only clean backfill will be used. Required fill volume can be calculated as follows:



$$\begin{aligned} Area_{Trapezoid} &= \frac{(0.58w + 1.42w) * h}{2} = \frac{((0.58 * 24.80 \text{ in}) + (1.42 * 24.80 \text{ in})) * 14.96 \text{ in}}{2} \\ &= 371.0 \text{ in}^2 * \left( \frac{1 \text{ ft}^2}{144 \text{ in}^2} \right) = 2.6 \text{ ft}^2 \end{aligned}$$

$$\begin{aligned} Volume_{BelowMHW} &= Area * Length = Area * (Elev_{MHW} - Elev_{Mudline}) \\ &= 2.6 \text{ ft}^2 * (1.9 \text{ ft} - (-4.0 \text{ ft})) = 15.2 \text{ ft}^3 \text{ for 1 pair of sheets} \end{aligned}$$

$$Volume_{BelowMHW} = 15.2 \text{ ft}^3 * 10 \text{ pairs of sheets} = 152.0 \text{ ft}^3$$

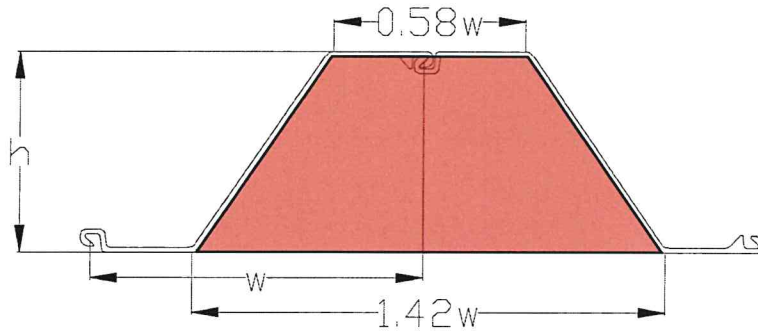
Including the 3.5" average gap between the existing and proposed bulkheads:

$$\begin{aligned} Volume_{BelowMHW} &= Gap * (Elev_{MHW} - Elev_{Mudline}) * Length \\ &= \left( 3.5 \text{ in} * \left( \frac{1 \text{ ft}}{12 \text{ in}} \right) \right) * (1.9 \text{ ft} - (-4.0 \text{ ft})) * (40 \text{ ft}) = 68.8 \text{ ft}^3 \end{aligned}$$

$$TotalVolume_{BelowMHW} = 152.0 \text{ ft}^3 + 68.8 \text{ ft}^3 = 220.8 \text{ ft}^3$$



If the proposed sheet-pile bulkhead is placed directly against the landward face of the existing bulkhead along the eastern-most edge of Anable Basin, then approximately 986 cubic feet (36 cubic yards) of backfill will be mitigated below MHW along the 77 linear feet of bulkhead. Mitigation volume can be calculated as follows:



$$Area_{Trapezoid} = \frac{(0.58w + 1.42w) * h}{2} = \frac{((0.58 * 24.80 \text{ in}) + (1.42 * 24.80 \text{ in})) * 14.96 \text{ in}}{2}$$

$$= 371.0 \text{ in}^2 * \left( \frac{1 \text{ ft}^2}{144 \text{ in}^2} \right) = 2.6 \text{ ft}^2$$

$$Volume_{BelowMHW} = Area * Length = Area * (Elev_{MHW} - Elev_{Mudline})$$

$$= 2.6 \text{ ft}^2 * (1.9 \text{ ft} - (-4.0 \text{ ft})) = 15.2 \text{ ft}^3 \text{ for 1 pair of sheets}$$

$$Volume_{BelowMHW} = 15.2 \text{ ft}^3 * 20 \text{ pairs of sheets} = 304.0 \text{ ft}^3$$

Including the 18" average gap between the proposed and existing bulkheads:

$$Volume_{BelowMHW} = Gap * (Elev_{MHW} - Elev_{Mudline}) * Length$$

$$= \left( 18 \text{ in} * \left( \frac{1 \text{ ft}}{12 \text{ in}} \right) \right) * (1.9 \text{ ft} - (-4.0 \text{ ft})) * (77 \text{ ft}) = 681.5 \text{ ft}^3$$

$$TotalVolume_{BelowMHW} = 304.0 \text{ ft}^3 + 681.5 \text{ ft}^3 = 985.5 \text{ ft}^3$$

The above calculations result in total net fill of -765 cubic feet (-28 cubic yards).

$$Total \text{ Net } Volume_{BelowMHW} = 220.8 \text{ ft}^3 - 985.5 \text{ ft}^3 = -764.7 \text{ ft}^3$$

4. *"The project currently proposes a net gain of fill within the tidal wetland at the site. This is considered a major activity; therefore, the permit application fee is a total of \$900. A check for \$200 has already been received. Please submit an additional check for \$700 made payable to NYSDEC."*

Since the new steel sheet-pile bulkhead will now be constructed landward of the existing timber bulkhead along the eastern-most edge of Anable Basin, the project will involve a net sum of a negative amount of fill placed into the adjacent tidal wetlands. Therefore, the project is considered a minor activity and no additional payments are necessary.

5. *"The applicant states that the project site is owned by two entities: CSC 4540 Property Co LLC and Queenbea 45-28 LLC. It appears that only a representative from CSC 4540 has signed the application form. Please submit written authorization from Queenbea 45-28 LLC to perform the proposed work on their property."*

Marian Schuman, an authorized representative for Queenbea 45-28 LLC, had previously signed on Page 2 of the Joint Application Form from the supplemental permit package dated September 28, 2015; one original form and two additional copies were included in this supplemental permit package. However, for consistency, the information listed in Box #6 on Page 1 of the Joint Application Form has been revised to include Marian Schuman's contact information.



## JOINT APPLICATION FORM

For Permits/Determinations to undertake activities affecting streams, waterways, waterbodies, wetlands, coastal areas and sources of water withdrawal.



New York  
State

**You must separately apply for and obtain separate Permits/Determinations from each involved agency prior to proceeding with work. Please read all instructions.**

US Army Corps of  
Engineers (USACE)

APPLICATIONS TO	2. US Army Corps of Engineers	3. NYS Office of General Services	4. NYS Department of State
<b>1. NYS Department of Environmental Conservation</b>  Check all permits that apply: <input type="checkbox"/> Stream Disturbance <input checked="" type="checkbox"/> Excavation and Fill in Navigable Waters <input type="checkbox"/> Docks, Moorings or Platforms <input type="checkbox"/> Dams and Impoundment Structures <input checked="" type="checkbox"/> 401 Water Quality Certification <input type="checkbox"/> Freshwater Wetlands <input checked="" type="checkbox"/> Tidal Wetlands  <input checked="" type="checkbox"/> I am sending this application to this agency.	Check all permits that apply: <input type="checkbox"/> Section 404 Clean Water Act <input type="checkbox"/> Section 10 Rivers and Harbors Act <input checked="" type="checkbox"/> Nationwide Permit(s) - Identify Number(s): NWP 3 - Maintenance  Preconstruction Notification - <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N  <input checked="" type="checkbox"/> I am sending this application to this agency.	Check all permits that apply: <input type="checkbox"/> State Owned Lands Under Water <input type="checkbox"/> Utility Easement (pipelines, conduits, cables, etc.) <input type="checkbox"/> Docks, Moorings or Platforms  <input type="checkbox"/> I am sending this application to this agency.	Check if this applies: <input checked="" type="checkbox"/> Coastal Consistency Concurrence  <input checked="" type="checkbox"/> I am sending this application to this agency.

<b>5. Name of Applicant (use full name)</b> CSC 4540 LLC Contact: Brent Carrier, Authorized Representative		<b>Applicant must be:</b> <input checked="" type="checkbox"/> Owner <input type="checkbox"/> Operator <input type="checkbox"/> Lessee (check all that apply) See attachment A
Mailing Address 757 Third Avenue 17th Floor		
Post Office City New York		Taxpayer ID (If applicant is NOT an individual): 46-4004440
State NY Zip Code 10017		
Telephone (daytime) (917) 847-9876	Email bcarrier@credevelopment.com	

<b>6. Name of Facility or Property Owner (if different than Applicant)</b> Queenbea 45-28 LLC Contact: Marian Schuman, Representative	
Mailing Address 488 Madison Avenue	
Post Office City New York	
State NY Zip Code 10022	
Telephone (daytime) (212) 572-5500	Email mmschuman@gmail.com david.lifson@crowehorwath.com

<b>7. Contact/Agent Name</b> Richard W. Gilbert, PE	
Company Name BlueShore Engineering LLC	
Mailing Address 1029 Teaneck Road 2nd Floor	
Post Office City Teaneck	
State NJ Zip Code 07666	
Telephone (daytime) (201) 817-2001	
Email rwg@blueshorellc.com	

<b>8. Project / Facility Name</b> 45-40 Vernon Blvd.		Property Tax Map Section / Block / Lot Number Queens Borough, Block 26, Lots 4 and 10	
Project Location - Provide directions and distances to roads, bridges and bodies of waters: On the northern end of 45-40 Vernon Blvd., where the parcel (Queens Borough, Block 26, Lot 4) meets Anable Basin (Eleventh Street Basin). On the western end of 45-24 Vernon Blvd., where the parcel (Queens Borough, Block 26, Lot 10) meets Anable Basin.			
Street Address, if applicable 45-40 and 45-24 Vernon Boulevard		Post Office City Long Island City	State NY Zip Code 11101
Town / Village / City New York City		County Queens	
Name of USGS Quadrangle Map Brooklyn		Stream/Water Body Name Anable Basin (Eleventh Street Basin), East River	
Location Coordinates: Enter NYTMs in kilometers, <b>OR</b> Latitude/Longitude			
NYTM-E	NYTM-N	Latitude 40d 44' 52" N	Longitude 73d 57' 11" W

**For Agency Use Only**

DEC Application Number:

USACE Number:



**JOINT APPLICATION FORM - PAGE 2 OF 2**  
Submit this completed page as part of your Application.

9. **Project Description and Purpose:** Provide a complete narrative description of the proposed work and its purpose. Attach additional page(s) if necessary. Include: description of current site conditions and how the site will be modified by the proposed project; structures and fill materials to be installed; type and quantity of materials to be used (i.e., square ft of coverage and cubic yds of fill material and/or structures below ordinary/mean high water) area of excavation or dredging, volumes of material to be removed and location of dredged material disposal or use; work methods and type of equipment to be used; pollution control methods and mitigation activities proposed to compensate for resource impacts; and where applicable, the phasing of activities. **ATTACH PLANS ON SEPARATE PAGES.**

The proposed work involves the installation of a total of 117 linear feet of new sheet-pile bulkhead to replace the existing timber bulkhead within Anable Basin (Eleventh Street Basin), which extends from the East River. 40 linear feet of the proposed bulkhead will run west-to-east where the southern perimeter of Anable Basin meets the northern perimeter of the Queens Borough, Block 26, Lot 4 parcel. Another 77 linear feet will run south-to-north where the eastern perimeter of Anable Basin meets the western perimeter of the Queens Borough, Block 26, Lot 10 parcel.

The sheet-pile bulkhead will retain approximately 10 feet of soil from the mudline to the proposed adjacent grade when installed, although it is designed to be able to retain more than 10 feet, allowing for potential future waterfront development or channel deepening for small vessels. The proposed bulkhead will be driven directly against the face of the existing deteriorated timber bulkhead. To minimize soil loss into the watercourse, the existing bulkhead will generally remain in place, with new bulkhead sheeting driven waterward of the existing bulkhead timbers. Some upper timbers protrude beyond the original bulkhead line and shall be cut or removed where necessary to drive the new bulkhead sheet as tight as possible against the existing bulkhead.

The sheet-pile bulkhead is also intended to provide containment of the upland NYS Brownfield Site #C241108. The sheet pile interlocks shall be sealed along the full sheet-pile length using interlock sealants that provide sufficient chemical resistance and low permeability to prevent contaminant migration into the watercourse.

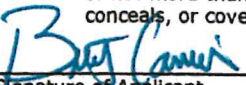
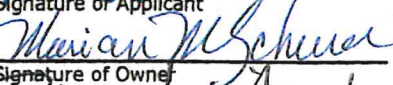
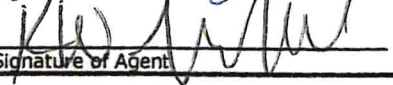
Proposed Use: <input checked="" type="checkbox"/> Private <input type="checkbox"/> Public <input type="checkbox"/> Commercial	Proposed Start Date: N/A	Estimated Completion Date: N/A
Has Work Begun on Project? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, explain.		
Will Project Occupy Federal, State or Municipal Land? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, please specify.		

10. List Previous Permit / Application Numbers (if any) and Dates:

11. Will this project require additional Federal, State, or Local Permits including zoning changes? ☒ Yes ☐ No If yes, please list:  
NYC Department of Small Business Services

12. **Signatures.** If applicant is not the owner, both must sign the application.

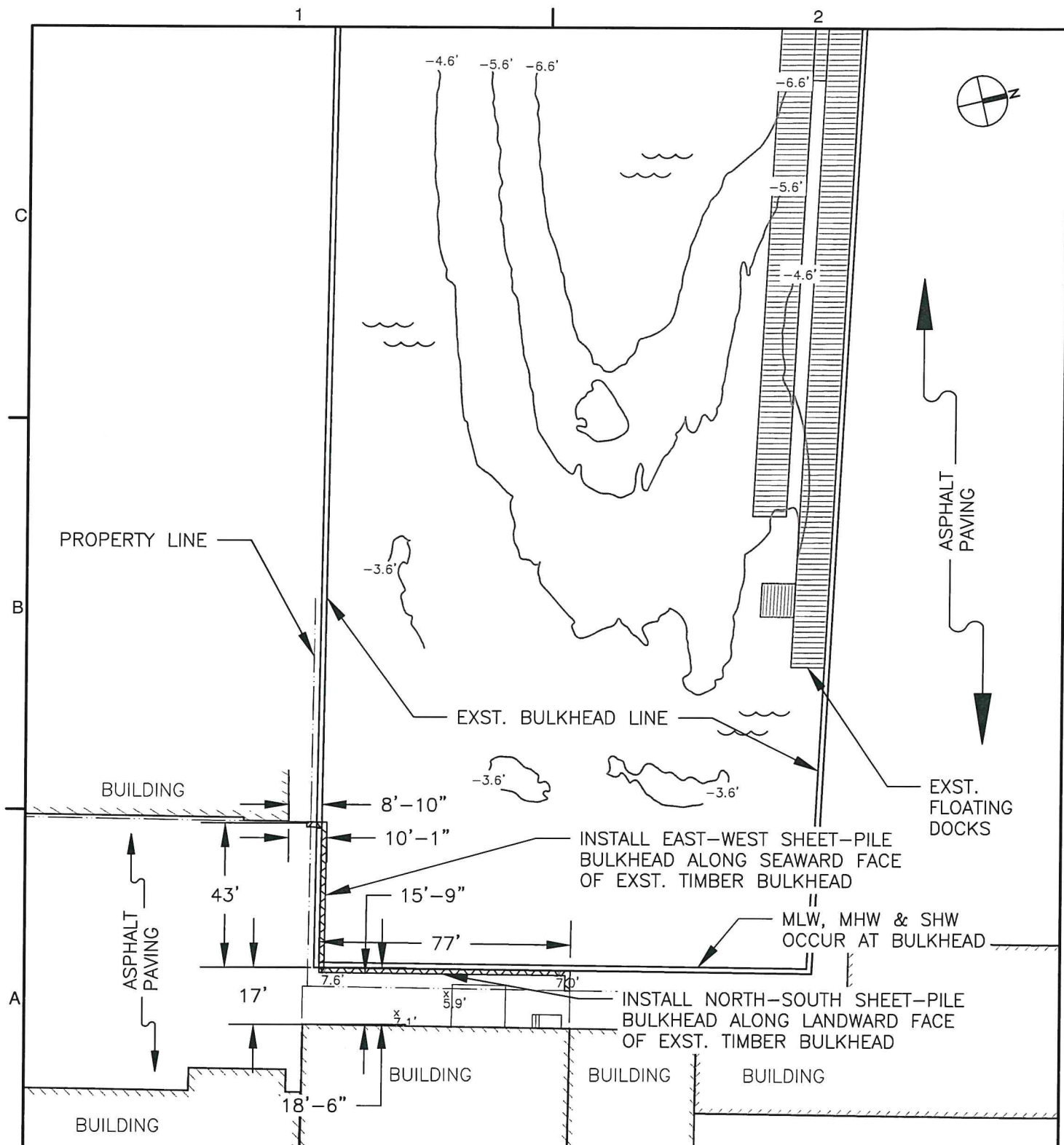
I hereby affirm that information provided on this form and all attachments submitted herewith is true to the best of my knowledge and belief. False statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law. Further, the applicant accepts full responsibility for all damage, direct or indirect, of whatever nature, and by whomever suffered, arising out of the project described herein and agrees to indemnify and save harmless the State from suits, actions, damages and costs of every name and description resulting from said project. In addition, Federal Law, 18 U.S.C., Section 1001 provides for a fine of not more than \$10,000 or imprisonment for not more than 5 years, or both where an applicant knowingly and willingly falsifies, conceals, or covers up a material fact; or knowingly makes or uses a false, fictitious or fraudulent statement.

	Brent Carrier	Authorized Representative	8/14/15
Signature of Applicant	Printed Name	Title	Date
	Marian Schuman	Authorized Representative	8/26/15
Signature of Owner	Printed Name	Title	Date
	Richard W. Gilbert, PE	President	9-28-15
Signature of Agent	Printed Name	Title	Date

**For Agency Use Only**

**DETERMINATION OF NO PERMIT REQUIRED**

Agency Project Number \_\_\_\_\_  
\_\_\_\_\_  
(Agency Name) has determined that No Permit is required from this Agency for the project described in this application.  
Agency Representative: Name (printed) \_\_\_\_\_ Title \_\_\_\_\_  
Signature \_\_\_\_\_ Date \_\_\_\_\_



USACE#: NAN-2015-00499-EMC

NYSDEC#: 2-6304-01724/00001

USGS Quad: Brooklyn

Waterway: Anable Basin, East River

Lat: 40° 44' 51.93" N; Long: 73° 57' 10.83" W

Datum: NAVD88

MARK	DESCRIPTION	DATE	APPR.
------	-------------	------	-------

PROPOSED SITE PLAN

Bulkhead Repairs

CSC 4540 LLC

45-40 Vernon Blvd.

Long Island City, NY 11101

**BlueShore**

ENGINEERING LLC  
TEANECK, NJ (201)817-2001  
INFO@BLUESHORELLC.COM

**R-4.1**

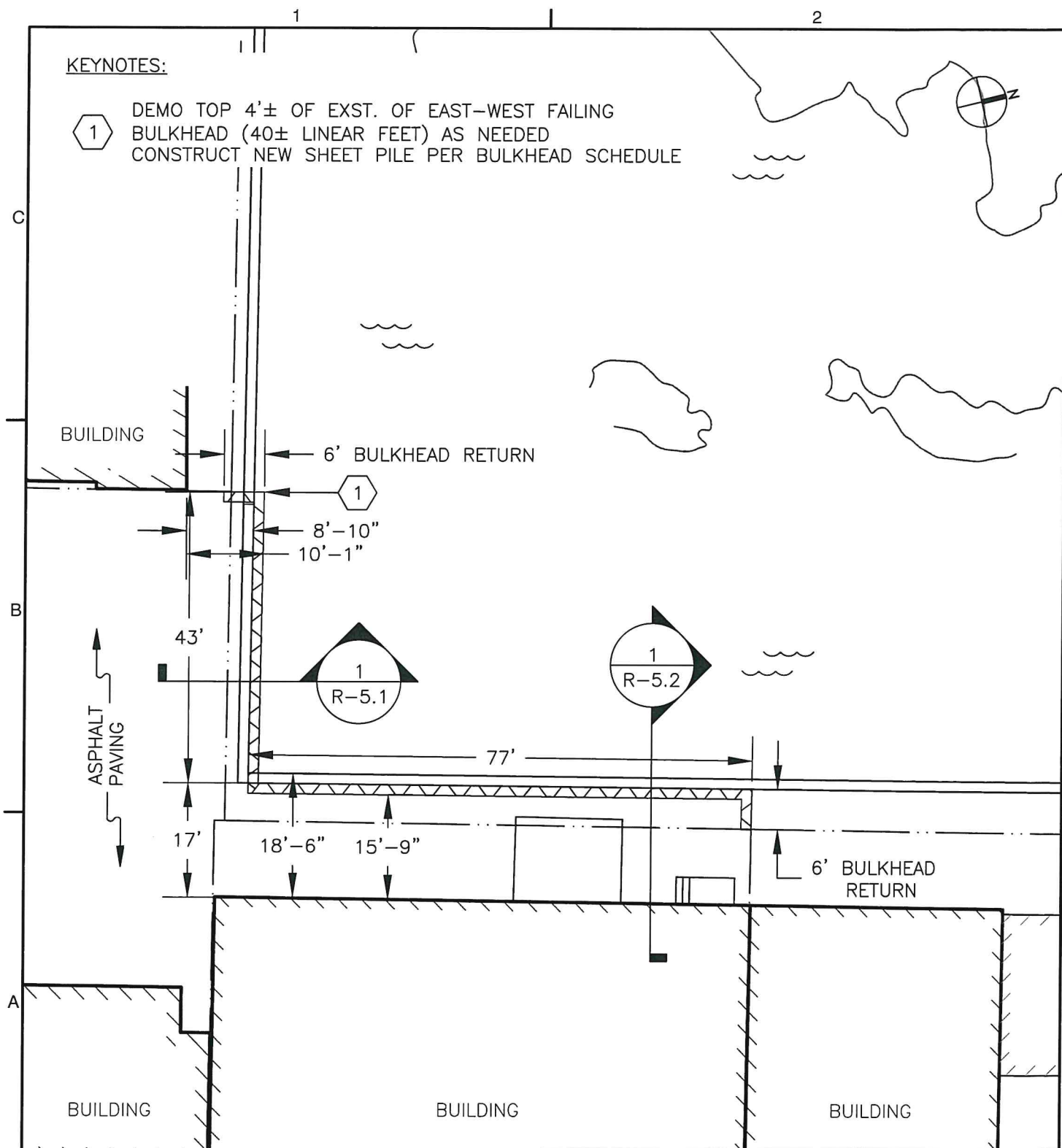
Scale: 1" = 40' October 28, 2015

Sht 9 of 20



**KEYNOTES:**

- 1 DEMO TOP 4'± OF EXST. OF EAST-WEST FAILING BULKHEAD (40± LINEAR FEET) AS NEEDED  
CONSTRUCT NEW SHEET PILE PER BULKHEAD SCHEDULE



USACE#: NAN-2015-00499-EMC

NYSDEC#: 2-6304-01724/00001

USGS Quad: Brooklyn

Waterway: Anable Basin, East River

Lat: 40° 44' 51.93" N; Long: 73° 57' 10.83" W

Datum: NAVD88

**SECTION PLAN**

Bulkhead Repairs

CSC 4540 LLC

45-40 Vernon Blvd.

Long Island City, NY 11101

Scale:

1" = 20'

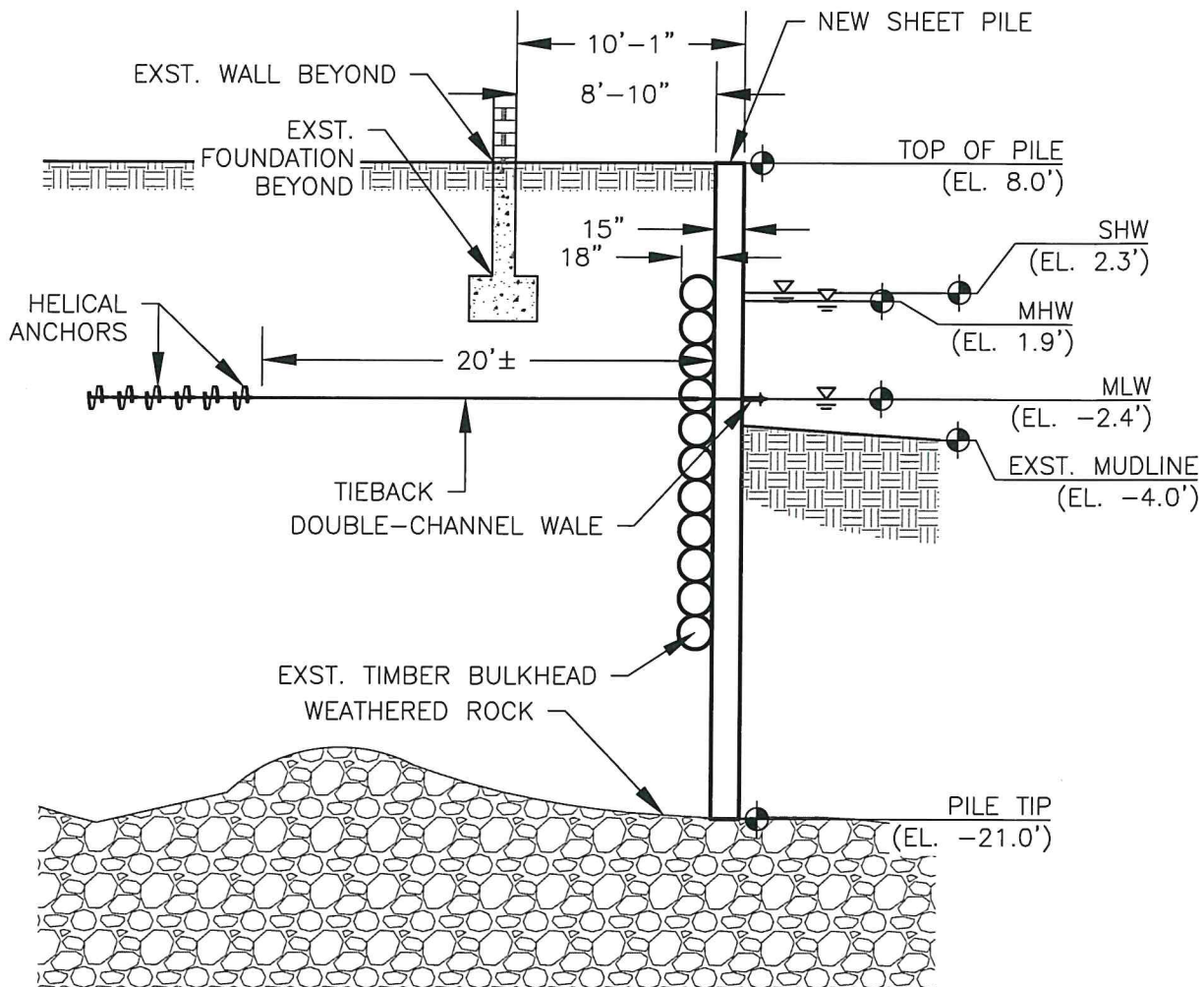
October 28, 2015

**BlueShore**

ENGINEERING LLC  
TEANECK, NJ (201)817-2001  
INFO@BLUESHORELLC.COM

**R-5.0**

Sht 10 of 20



1 BULKHEAD SECTION, TYP.  
Scale: 1/8" = 1'

USACE#: NAN-2015-00499-EMC

NYSDEC#: 2-6304-01724/00001

USGS Quad: Brooklyn

Waterway: Anable Basin, East River

Lat: 40° 44' 51.93" N; Long: 73° 57' 10.83" W

Datum: NAVD88

MARK	DESCRIPTION	DATE	APPR.
------	-------------	------	-------

#### SECTIONS

Bulkhead Repairs  
CSC 4540 LLC  
45-40 Vernon Blvd.  
Long Island City, NY 11101

**BlueShore**  
ENGINEERING LLC  
TEANECK, NJ (201)817-2001  
INFO@BLUESHORELLC.COM

**R-5.1**

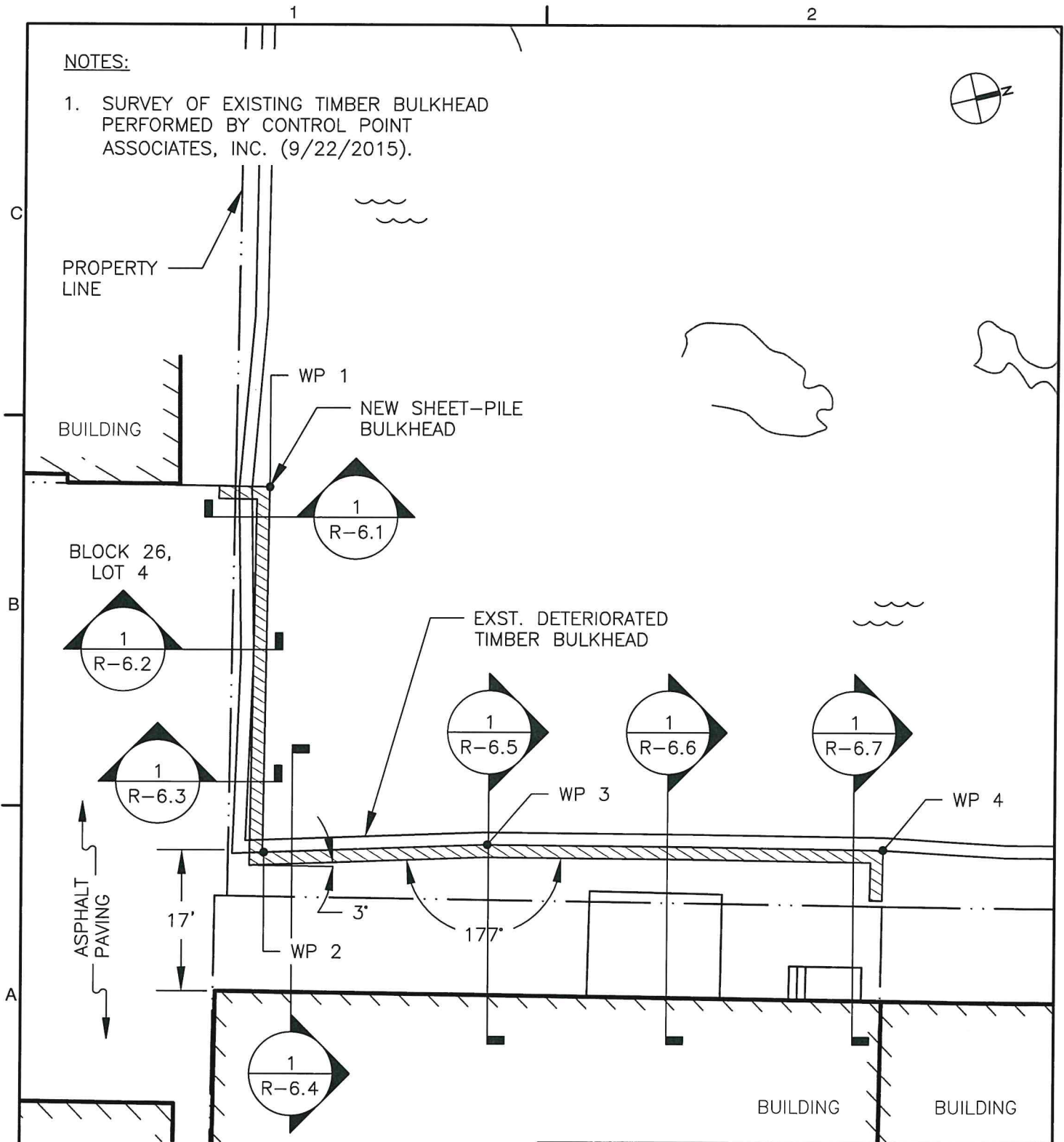
Scale: AS NOTED | October 28, 2015 | Sht 11 of 20





**NOTES:**

1. SURVEY OF EXISTING TIMBER BULKHEAD PERFORMED BY CONTROL POINT ASSOCIATES, INC. (9/22/2015).



USACE#: NAN-2015-00499-EMC

NYSDEC#: 2-6304-01724/00001

USGS Quad: Brooklyn

Waterway: Anable Basin, East River

Lat: 40° 44' 51.93" N; Long: 73° 57' 10.83" W

Datum: NAVD88

MARK	DESCRIPTION	DATE	APPR.
------	-------------	------	-------

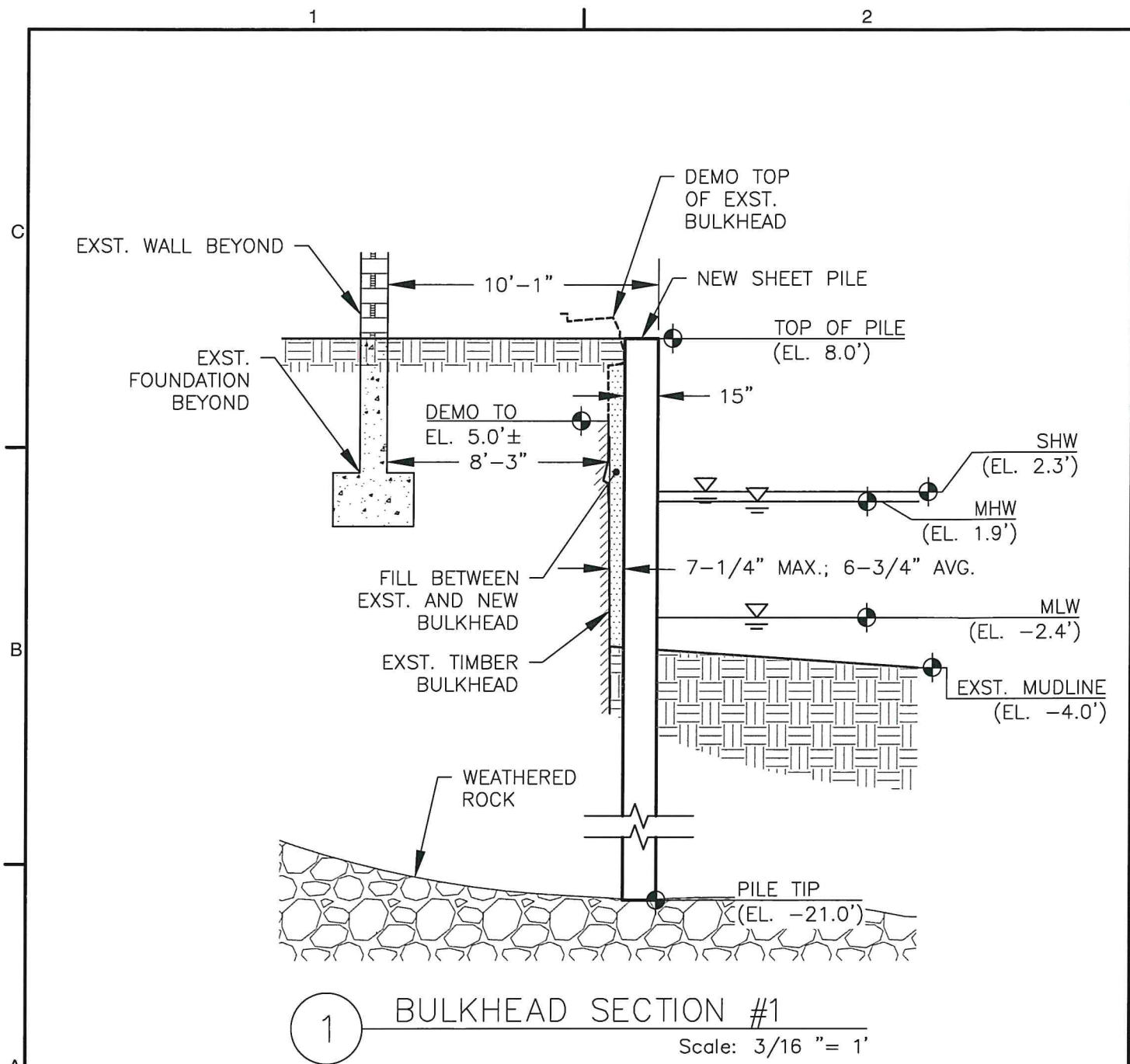
**SECTION KEY**

Bulkhead Repairs  
CSC 4540 LLC  
45-40 Vernon Blvd.  
Long Island City, NY 11101

**BlueShore**  
ENGINEERING LLC  
TEANECK, NJ (201)817-2001  
INFO@BLUESHORELLC.COM

**R-6.0**

Scale: 1" = 16'	October 28, 2015	Sht 13 of 20
-----------------	------------------	--------------



USACE#: NAN-2015-00499-EMC

NYSDEC#: 2-6304-01724/00001

USGS Quad: Brooklyn

Waterway: Anable Basin, East River

Lat: 40° 44' 51.93" N; Long: 73° 57' 10.83" W

Datum: NAVD88

MARK	DESCRIPTION	DATE	APPR.
------	-------------	------	-------

#### SECTIONS

Bulkhead Repairs

CSC 4540 LLC

45-40 Vernon Blvd.

Long Island City, NY 11101

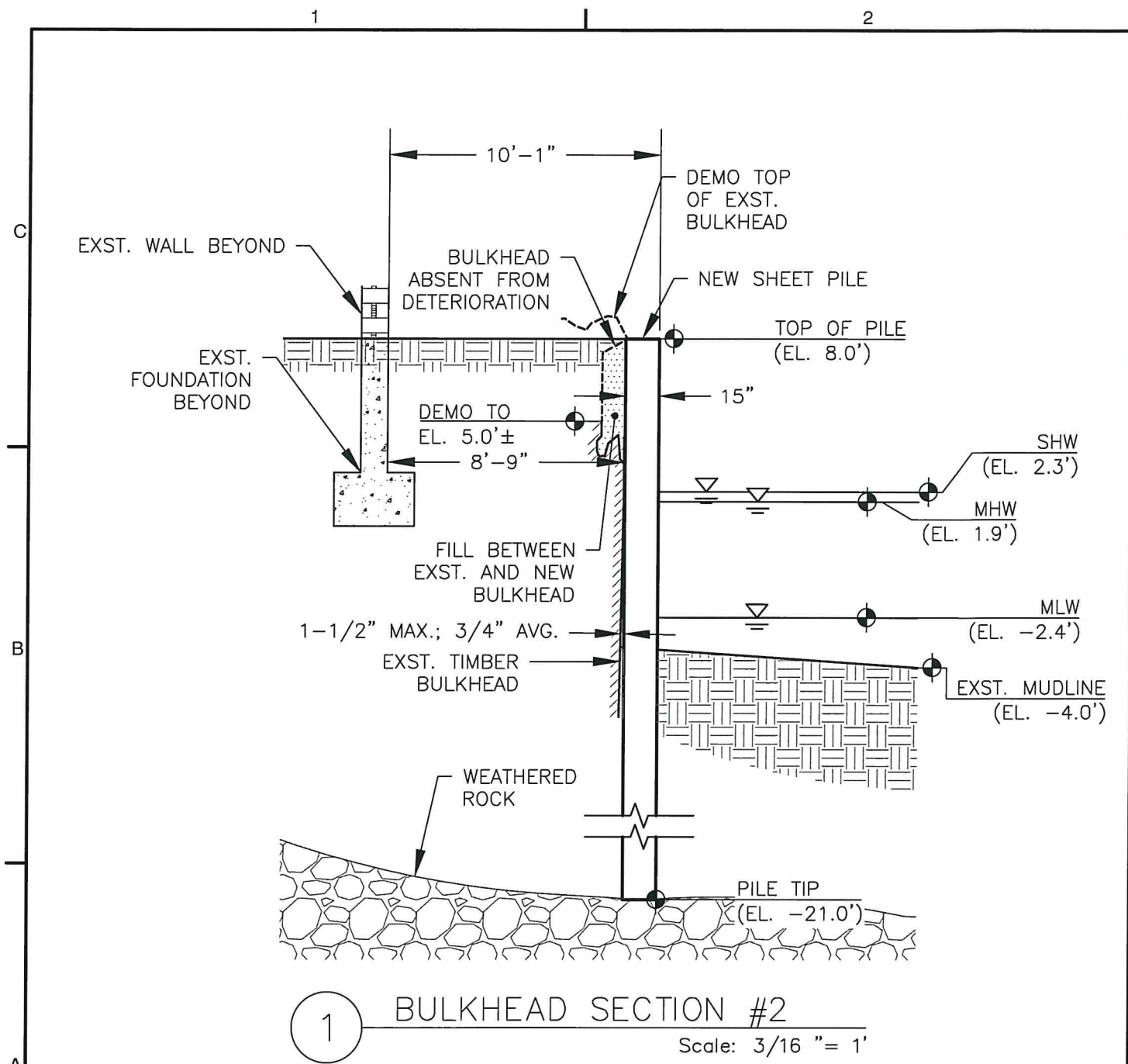
Scale: AS NOTED

October 28, 2015

**BlueShore**  
ENGINEERING LLC  
TEANECK, NJ (201)817-2001  
INFO@BLUESHORELLC.COM

**R-6.1**

Sht 14 of 20



USACE#: NAN-2015-00499-EMC

NYSDEC#: 2-6304-01724/00001

USGS Quad: Brooklyn

Waterway: Anable Basin, East River

Lat: 40° 44' 51.93" N; Long: 73° 57' 10.83" W

Datum: NAVD88

MARK	DESCRIPTION	DATE	APPR.
------	-------------	------	-------

#### SECTIONS

Bulkhead Repairs

CSC 4540 LLC

45-40 Vernon Blvd.

Long Island City, NY 11101

Scale: AS NOTED

October 28, 2015

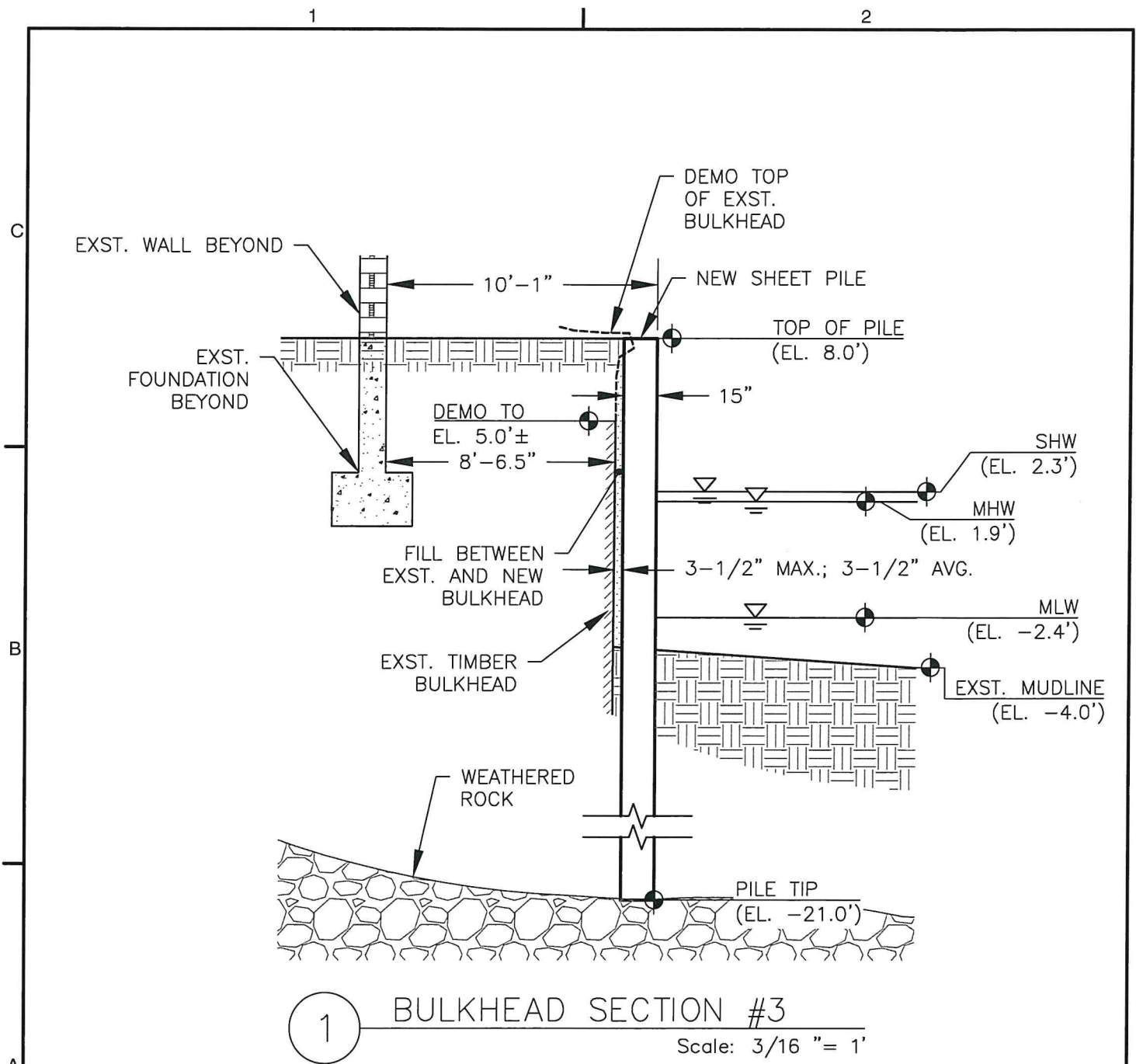
**BlueShore**

ENGINEERING LLC  
TEANECK, NJ (201)817-2001  
INFO@BLUESHORELLC.COM

**R-6.2**

Sht 15 of 20





USACE#: NAN-2015-00499-EMC

NYSDEC#: 2-6304-01724/00001

USGS Quad: Brooklyn

Waterway: Anable Basin, East River

Lat: 40° 44' 51.93" N; Long: 73° 57' 10.83" W

Datum: NAVD88

MARK	DESCRIPTION	DATE	APPR.
------	-------------	------	-------

#### SECTIONS

Bulkhead Repairs  
CSC 4540 LLC  
45-40 Vernon Blvd.  
Long Island City, NY 11101

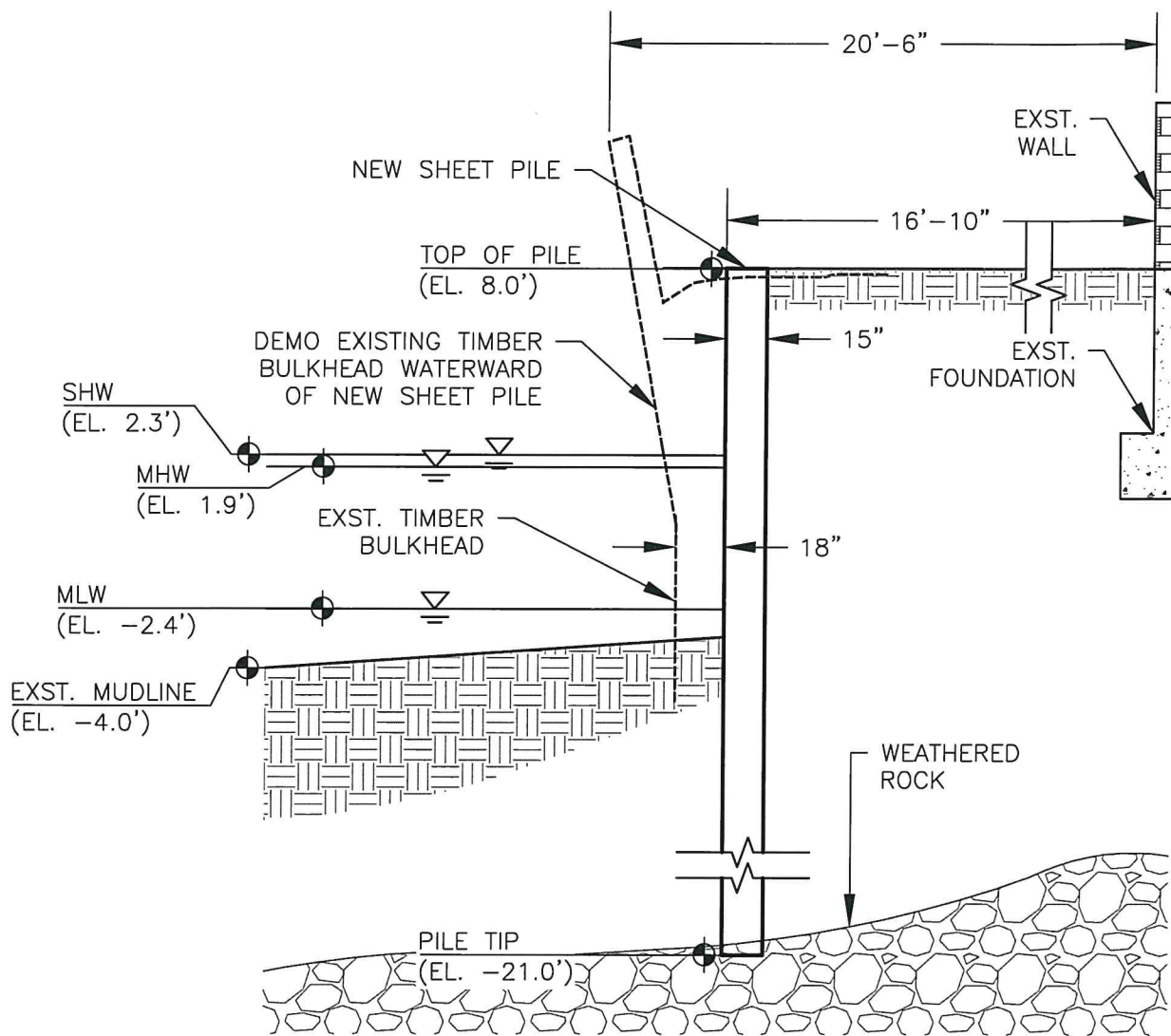
**BlueShore**  
ENGINEERING LLC  
TEANECK, NJ (201)817-2001  
INFO@BLUESHORELLC.COM

**R-6.3**

Scale: AS NOTED

October 28, 2015

Sht 16 of 20



1 BULKHEAD SECTION #4  
Scale: 3/16" = 1'

USACE#: NAN-2015-00499-EMC

NYSDEC#: 2-6304-01724/00001

USGS Quad: Brooklyn

Waterway: Anable Basin, East River

Lat: 40° 44' 51.93" N; Long: 73° 57' 10.83" W

Datum: NAVD88

MARK	DESCRIPTION	DATE	APPR.
------	-------------	------	-------

#### SECTIONS

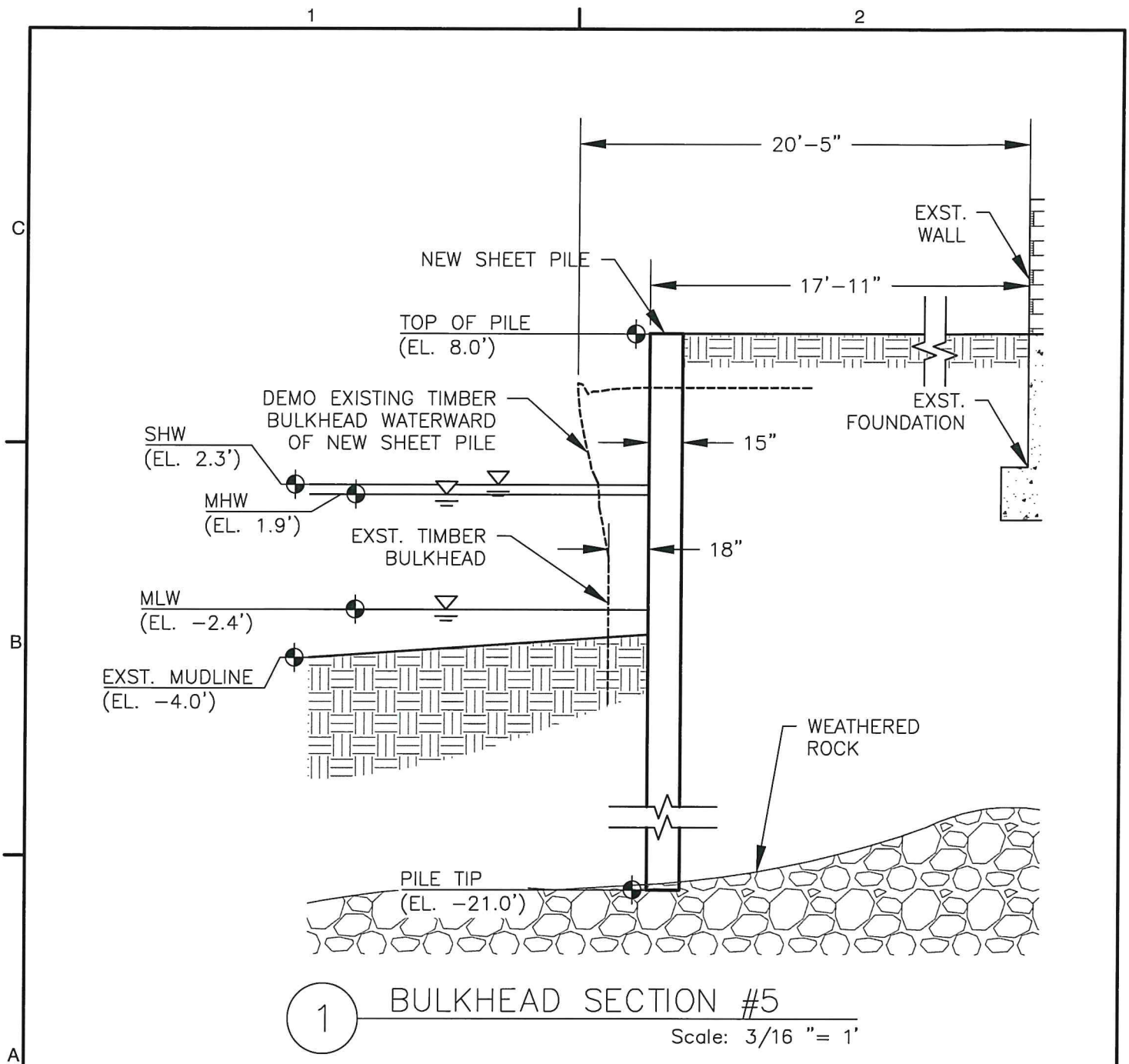
Bulkhead Repairs  
CSC 4540 LLC  
45-40 Vernon Blvd.  
Long Island City, NY 11101

**BlueShore**  
ENGINEERING LLC  
TEANECK, NJ (201)817-2001  
INFO@BLUESHORELLC.COM

**R-6.4**

Scale: AS NOTED October 28, 2015

Sht 17 of 20



USACE#: NAN-2015-00499-EMC

NYSDEC#: 2-6304-01724/00001

USGS Quad: Brooklyn

Waterway: Anable Basin, East River

Lat: 40° 44' 51.93" N; Long: 73° 57' 10.83" W

Datum: NAVD88

MARK	DESCRIPTION	DATE	APPR.
------	-------------	------	-------

#### SECTIONS

Bulkhead Repairs  
CSC 4540 LLC  
45-40 Vernon Blvd.  
Long Island City, NY 11101

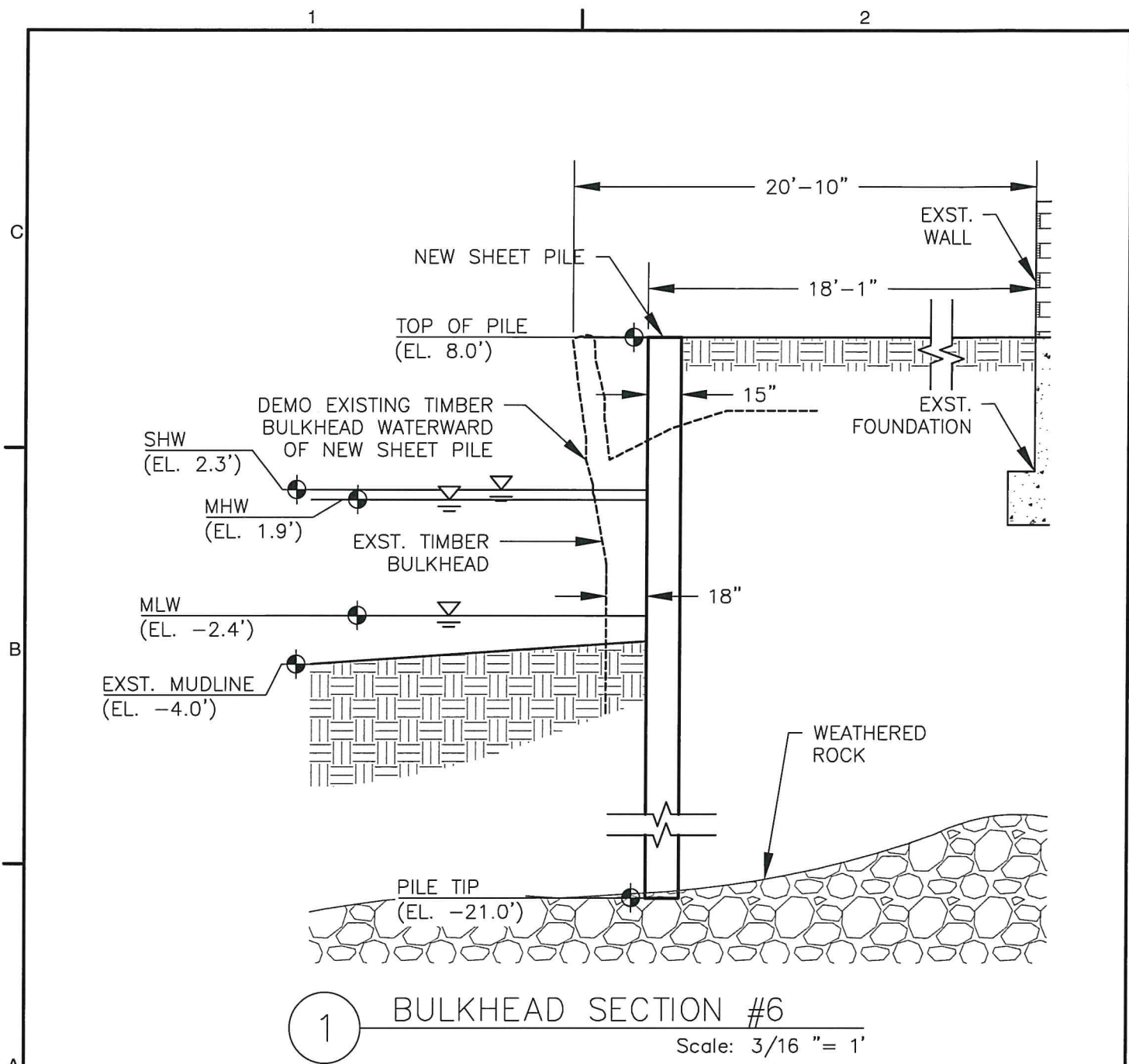
**BlueShore**  
ENGINEERING LLC  
TEANECK, NJ (201)817-2001  
INFO@BLUESHORELLC.COM

**R-6.5**

Scale: AS NOTED

October 28, 2015

Sht 18 of 20



USACE#: NAN-2015-00499-EMC

NYSDEC#: 2-6304-01724/00001

USGS Quad: Brooklyn

Waterway: Anable Basin, East River

Lat: 40° 44' 51.93" N; Long: 73° 57' 10.83" W

Datum: NAVD88

MARK	DESCRIPTION	DATE	APPR.
------	-------------	------	-------

#### SECTIONS

Bulkhead Repairs  
CSC 4540 LLC  
45-40 Vernon Blvd.  
Long Island City, NY 11101

**BlueShore**  
ENGINEERING LLC  
TEANECK, NJ (201)817-2001  
INFO@BLUESHORELLC.COM

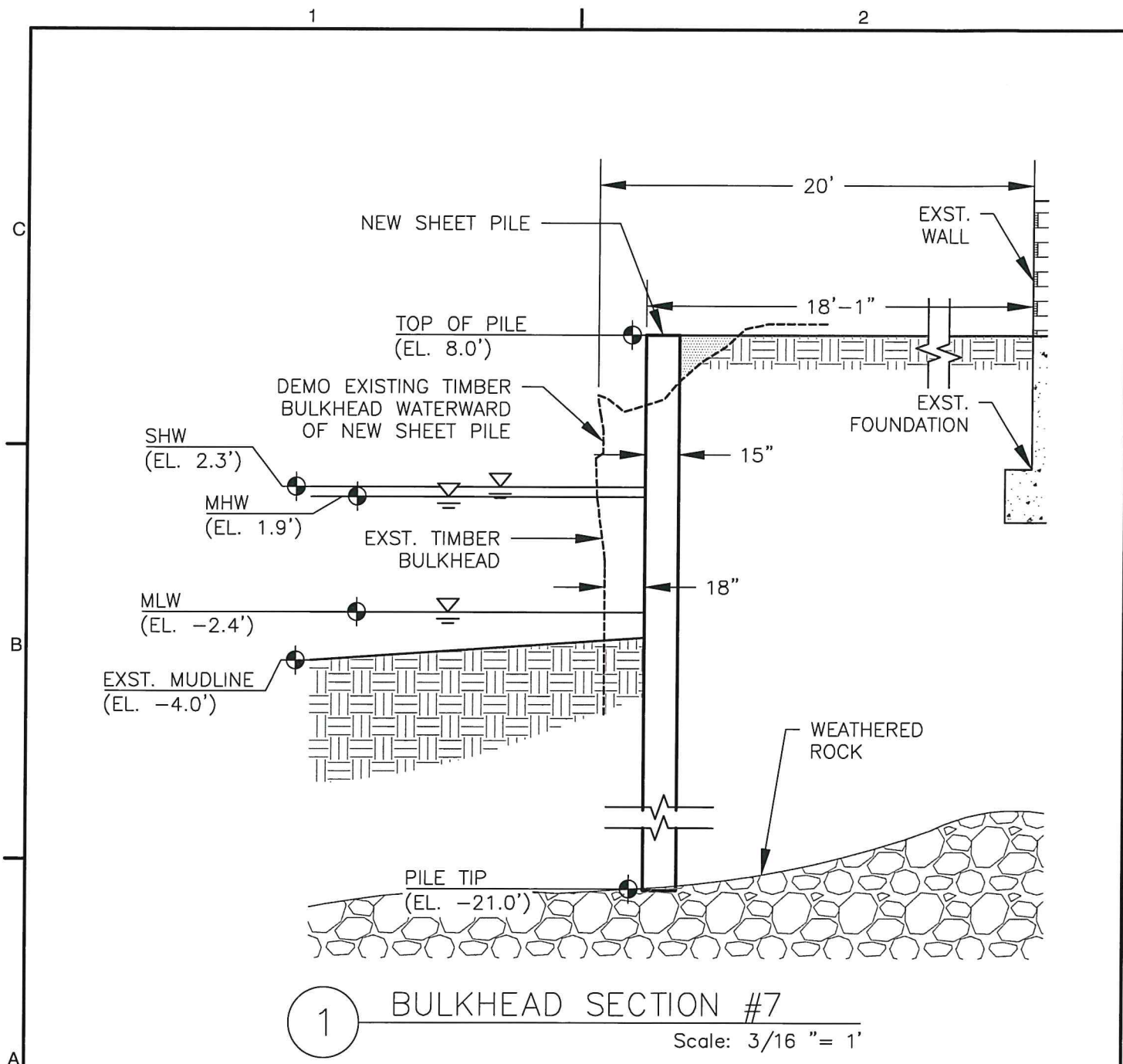
**R-6.6**

Scale: AS NOTED

October 28, 2015

Sht 19 of 20





USACE#: NAN-2015-00499-EMC

NYSDEC#: 2-6304-01724/00001

USGS Quad: Brooklyn

Waterway: Anable Basin, East River

Lat: 40° 44' 51.93" N; Long: 73° 57' 10.83" W

Datum: NAVD88

MARK	DESCRIPTION	DATE	APPR.
------	-------------	------	-------

#### SECTIONS

Bulkhead Repairs  
CSC 4540 LLC  
45-40 Vernon Blvd.  
Long Island City, NY 11101

**BlueShore**  
ENGINEERING LLC  
TEANECK, NJ (201)817-2001  
INFO@BLUESHORELLC.COM

**R-6.7**

Scale: AS NOTED

October 28, 2015

Sht 20 of 20