



**Shabica & Associates, Inc.**  
WE BUILD BEACHES

**RECEIVED**  
AUG 30 2016

Federal Consistency Coordinator  
Illinois Coastal Management Program  
Illinois Department of Natural Resources  
160 N. LaSalle Street, Suite 700  
Chicago, IL 60601

**OFFICE OF WATER RESOURCES  
DIVISION OF RESOURCE MANAGEMENT**

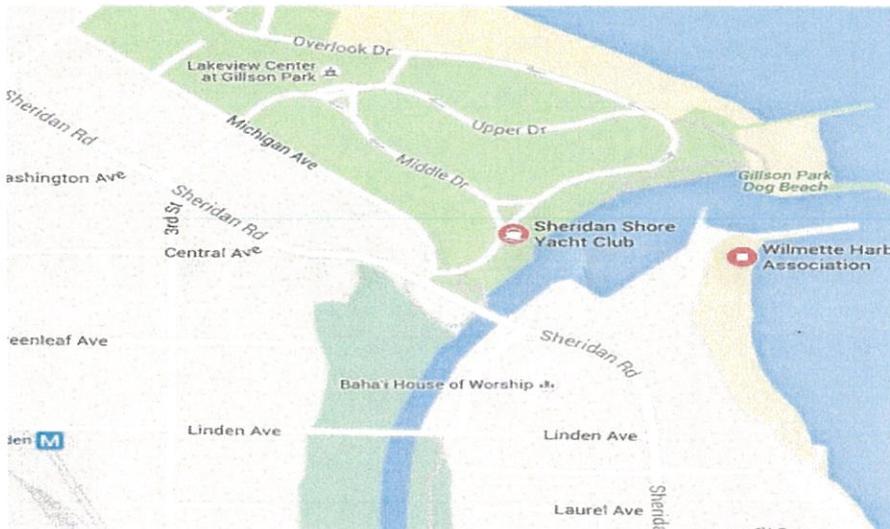
To Whom It May Concern:

August 26, 2016

In compliance with the Illinois Coastal Management Federal Consistency Review Procedures, we provide the following information for the installation of a floating and steel pile pier system to anchor boats for the Wilmette Harbor Association located at 20 Harbor Drive, Wilmette, Illinois 60091.

#### **Location of Project**

The proposed pier system installation will be done on the lakefront of the property located at 20 Harbor Drive, Wilmette, Illinois 60091.



#### **Project Start Date and Duration**

Work will not begin until all necessary permits have been received. This work will require approximately 3 weeks to complete.

### Extent of Work to be Conducted

The project includes installation of a 3' wide, 397'-6" long whaler wall supported on steel piles, an 8' wide, 435' long floating dock anchored with Seaflex helical anchors, and a mooring line using Seaflex anchors connected to mooring balls. The existing moorings in this area will be removed from the lakebed, hauled offsite and disposed of properly.

### Contact Information

All questions pertaining to this project can be submitted to:

Jon Shabica, Shabica & Associates, Inc.  
Northfield, IL 60093  
jon@shabica.com  
847-446-1436 Tel

The proposed activity complies with Illinois' approved Coastal Management Program and will be conducted in a manner consistent with such policies.

Sincerely,

Jon Shabica  
Vice President



2015 Google Earth (all work will take place within the yellow box)



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August 26, 2016

Ms. Kathy Chernich  
East Section Chief, Regulatory Branch  
Chicago District  
U.S. Army Corps of Engineers  
231 S. LaSalle Street, Suite 1500  
Chicago, IL 60604

Dear Ms. Chernich:

Please find enclosed a permit application for installation of a floating and steel pile pier system for Wilmette Harbor Association located at 20 Harbor Drive, Wilmette, Illinois 60091.

The proposed activity complies with the approved Illinois Coastal Management Program (ICMP) and will be conducted in a manner consistent with such policies; and will be sent to the ICMP under separate cover.

**Project Purpose Statement:**

The Wilmette Harbor Association would like to install a new boat anchoring system to help address the current usage of the harbor, change in boat hull design (plumb bows) and help address the increased water volumes that outfall from the MWRD locks during heavy rain events (currently happening at a higher rate than previous years due to an increase in storm intensity). By reorienting the A line boats (large boats within the direct line of the lock flow) and installing a new anchoring system, the harbor be better able to meet the changing conditions of the outfall, work with the approximately 6' fluctuation in Lake Michigan water levels (over 4' increase in just the past two years) and make the harbor more efficient for their users. The proposed boat anchoring system will be installed within the existing boat basin and will not require any modifications to the harbor seawalls, breakwaters or bulkheads.

**Type of Permit:**

We ascertain the scope of this project may require a regional permit, however documentation required for an individual permit is included in this submittal.

**Description of Proposed Activity:**

The project includes installation of a 3' wide, 397'-6" long whaler wall supported on steel piles, an 8' wide, 435' long floating dock anchored with Seaflex helical anchors, and a mooring line using Seaflex anchors connected to mooring balls. The existing moorings in this area will be removed from the lakebed, hauled offsite and disposed of properly.

**Schedule of Activity:**

This work will require 3 weeks to complete.

**Type and Quantity of Fill/Measures Taken to Avoid Impact/Erosion and Sediment Control Plan:**

No dredging of sand or clay bed will be done as part of this project. The existing moorings to be removed are connected to railroad wheels which will be picked up from the lakebed if they can be located. The railroad wheels that are located may have settled into sand but will not be removed from clay.

All of the above described activities and plans will follow IPP and RPP terms and conditions. All of the proposed work adheres to the guidelines prescribed by the Illinois Environmental Protection Agency and its Anti-Degradation Assessment. U.S. Fish & Wildlife Service and the Illinois Historic Preservation Association will be updated on all relevant correspondence.

If you have any questions please feel free to call me at the phone number below.

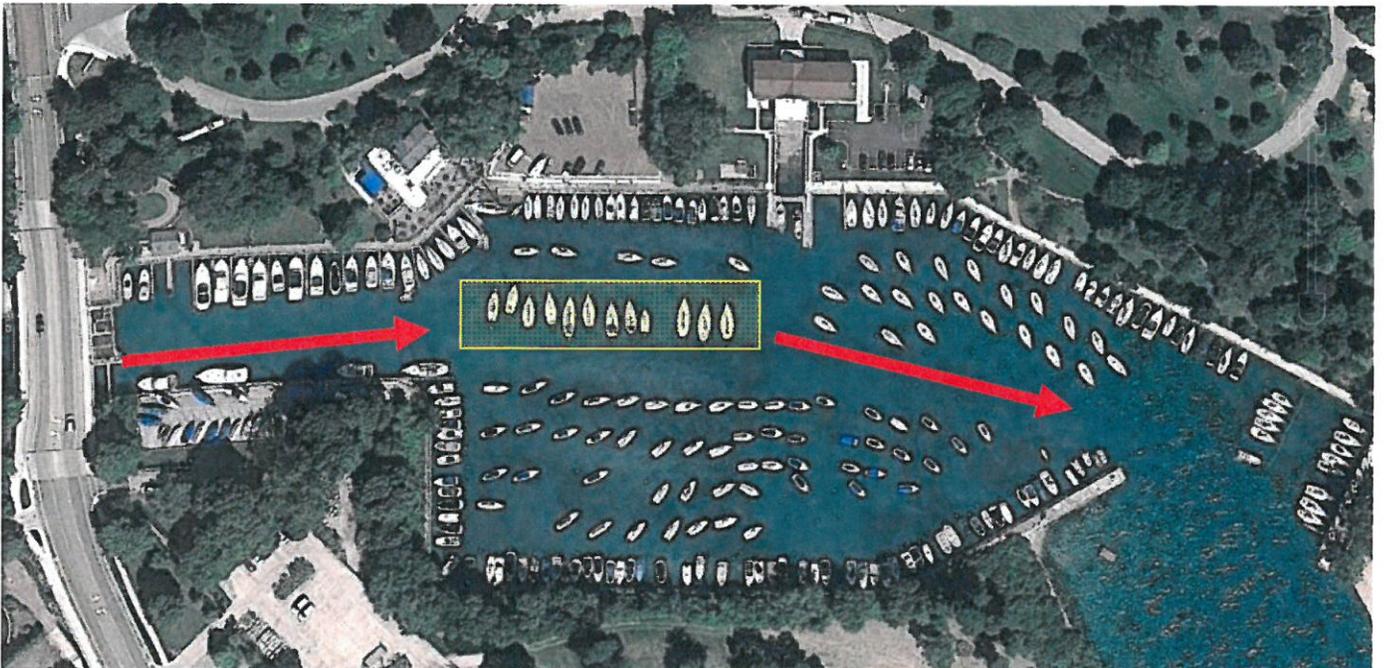
Sincerely,

Jon Shabica  
Vice President

C: IDNR/OWR (Casey)  
IEPA (Heacock)  
U.S. Fish & Wildlife Service  
Illinois Historic Preservation Agency (Liebowitz)  
Hyde Pierce, WHA



2015 Google Earth (all work will take place within the yellow box)



2010 Google Earth showing boats in the harbor and the north south orientation of the "A line" boats (yellow box)  
These boats will be reoriented to east west to address the increased flow from the MWRD lock (red arrow)

## JOINT APPLICATION FORM FOR ILLINOIS

ITEMS 1 AND 2 FOR AGENCY USE

1. Application Number	2. Date Received
-----------------------	------------------

**3. and 4. (SEE SPECIAL INSTRUCTIONS) NAME, MAILING ADDRESS AND TELEPHONE NUMBERS**

<p>3a. Applicant's Name: <b>Hyde Pierce, Executive Director</b></p> <p>Company Name (if any): Wilmette Harbor Association</p> <p>Address: <b>20 Harbor Dr. Wilmette, IL 60091</b></p> <p>Email Address: wilmetteharbor1938@gmail.com</p>	<p>3b. Co-Applicant/Property Owner Name (if needed or if different from applicant): <b>Matt Jurjovec</b></p> <p>Company Name (if any): MWRD</p> <p>Address: <b>100 E. Erie Chicago, IL 60611-2803</b></p> <p>Email Address:</p>	<p>4. Authorized Agent (an agent is not required): <b>Jon Shabica</b></p> <p>Company Name (if any): Shabica &amp; Associates, Inc.</p> <p>Address: <b>550 Frontage Road Suite 3735 Northfield, IL 60093</b></p> <p>Email Address: jon@shabica.com</p>
<p>Applicant's Phone Nos. w/area code Business: 847-251-4234</p> <p>Residence: Cell: Fax: 847-256-1225</p>	<p>Applicant's Phone Nos. w/area code Business: 312-751-5884</p> <p>Residence: Cell: Fax:</p>	<p>Agent's Phone Nos. w/area code Business: 847-446-1436</p> <p>Residence: Cell: Fax:</p>

**STATEMENT OF AUTHORIZATION**

I hereby authorize, Shabica & Associates, Inc. to act in my behalf as my agent in the processing of this application and to furnish, upon request, supplemental information in support of this permit application.

8/25/16  
Date

**5. ADJOINING PROPERTY OWNERS (Upstream and Downstream of the water body and within Visual Reach of Project)**

Name	Mailing Address	Phone No. w/area code
a. <i>see attached</i>		
b.		
c.		
d.		

**6. PROJECT TITLE:**

**Installation of a floating and steel pile pier system to anchor boats**

**7. PROJECT LOCATION:**

The harbor, east of Sheridan Road

<p>LATITUDE: <b>42.07664</b> °N</p> <p>LONGITUDE: <b>-87.68170</b> °W</p>	<p>UTMs</p> <p>Northing: <b>4658510.47m</b></p> <p>Easting: <b>16T 443609.05m</b></p>										
<p>STREET, ROAD, OR OTHER DESCRIPTIVE LOCATION <b>20 Harbor Drive, Wilmette</b></p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 15%;">LEGAL DESCRIPT</th> <th style="width: 15%;">QUARTER</th> <th style="width: 15%;">SECTION</th> <th style="width: 15%;">TOWNSHIP NO.</th> <th style="width: 15%;">RANGE</th> </tr> <tr> <td></td> <td style="text-align: center;"><b>NE</b></td> <td style="text-align: center;"><b>35</b></td> <td style="text-align: center;"><b>42N</b></td> <td style="text-align: center;"><b>13E</b></td> </tr> </table>	LEGAL DESCRIPT	QUARTER	SECTION	TOWNSHIP NO.	RANGE		<b>NE</b>	<b>35</b>	<b>42N</b>	<b>13E</b>
LEGAL DESCRIPT	QUARTER	SECTION	TOWNSHIP NO.	RANGE							
	<b>NE</b>	<b>35</b>	<b>42N</b>	<b>13E</b>							
<p><input checked="" type="checkbox"/> IN OR <input type="checkbox"/> NEAR CITY OF TOWN (check appropriate box)</p> <p>Municipality Name <b>Wilmette</b></p>	<p style="text-align: center;">WATERWAY</p> <p style="text-align: center;"><b>Lake Michigan</b></p>										
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">COUNTY <b>Cook</b></td> <td style="width: 25%;">STATE <b>IL</b></td> <td style="width: 50%;">ZIP CODE <b>60091</b></td> </tr> </table>	COUNTY <b>Cook</b>	STATE <b>IL</b>	ZIP CODE <b>60091</b>	<p style="text-align: right;">RIVER MILE (if applicable)</p>							
COUNTY <b>Cook</b>	STATE <b>IL</b>	ZIP CODE <b>60091</b>									

Revised 2010

- Corps of Engineers    
 IL Dep't of Natural Resources    
 IL Environmental Protection Agency    
 Applicant's Copy

8. PROJECT DESCRIPTION (Include all features):  
 The project includes installation of a 3' wide, 397'-6" long whaler wall supported on steel piles, an 8' wide, 435' long floating dock anchored with Seaflex helical anchors, and a mooring line using Seaflex anchors connected to mooring balls. The existing moorings in this area will be removed from the lakebed, hauled offsite and disposed of properly.

9. PURPOSE AND NEED OF PROJECT:  
 To create a safer mooring system for the boats in Wilmette Harbor.

**COMPLETE THE FOLLOWING FOUR BLOCKS IF DREDGED AND/OR FILL MATERIAL IS TO BE DISCHARGED**

10. REASON(S) FOR DISCHARGE:

11. TYPE(S) OF MATERIAL BEING DISCHARGED AND THE AMOUNT OF EACH TYPE IN CUBIC YARDS FOR WATERWAYS:  
 TYPE:  
 AMOUNT IN CUBIC YARDS:

12. SURFACE AREA IN ACRES OF WETLANDS OR OTHER WATERS FILLED (See Instructions)

13. DESCRIPTION OF AVOIDANCE, MINIMIZATION AND COMPENSATION (See instructions)

14. Date activity is proposed to commence: April 1, 2017      Date activity is expected to be completed: April 25, 2017

15. Is any portion of the activity for which authorization is sought now complete?      Yes       No       NOTE: If answer is "YES" give reasons in the Project Description and Remarks section. Indicate the existing work on drawings.

16. List all approvals or certification and denials received from other Federal, interstate, state, or local agencies for structures, construction, discharges or other activities described in this application.

<u>Issuing Agency</u>	<u>Type of Approval</u>	<u>Identification No.</u>	<u>Date of Application</u>	<u>Date of Approval</u>	<u>Date of Denial</u>

17. CONSENT TO ENTER PROPERTY LISTED IN PART 7 ABOVE IS HEREBY GRANTED.      Yes       No

18. APPLICATION VERIFICATION (SEE SPECIAL INSTRUCTIONS)  
 Application is hereby made for the activities described herein. I certify that I am familiar with the information contained in the application, and that to the best of my knowledge and belief, the information is true and correct. I certify that I possess the authority to undertake the proposed activity.

\_\_\_\_\_  
 Signature of Applicant or Authorized Agent      8/29/2016      Date

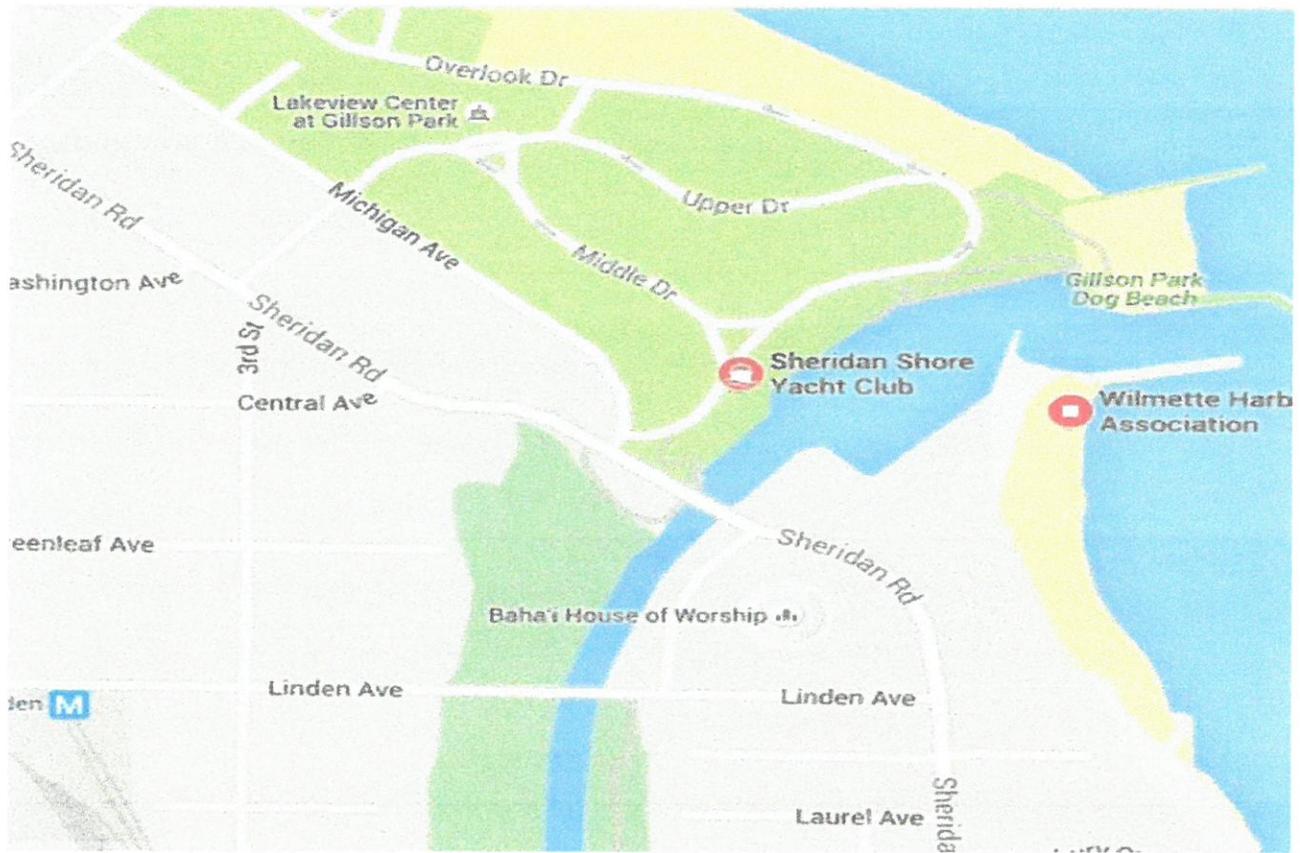
\_\_\_\_\_  
 Signature of Applicant or Authorized Agent      \_\_\_\_\_      Date

\_\_\_\_\_  
 Signature of Applicant or Authorized Agent      \_\_\_\_\_      Date

- Corps of Engineers Revised 2010       IL Dep't of Natural Resources       IL Environmental Protection Agency       Applicant's Copy

SEE INSTRUCTIONS FOR ADDRESS

## Vicinity Map



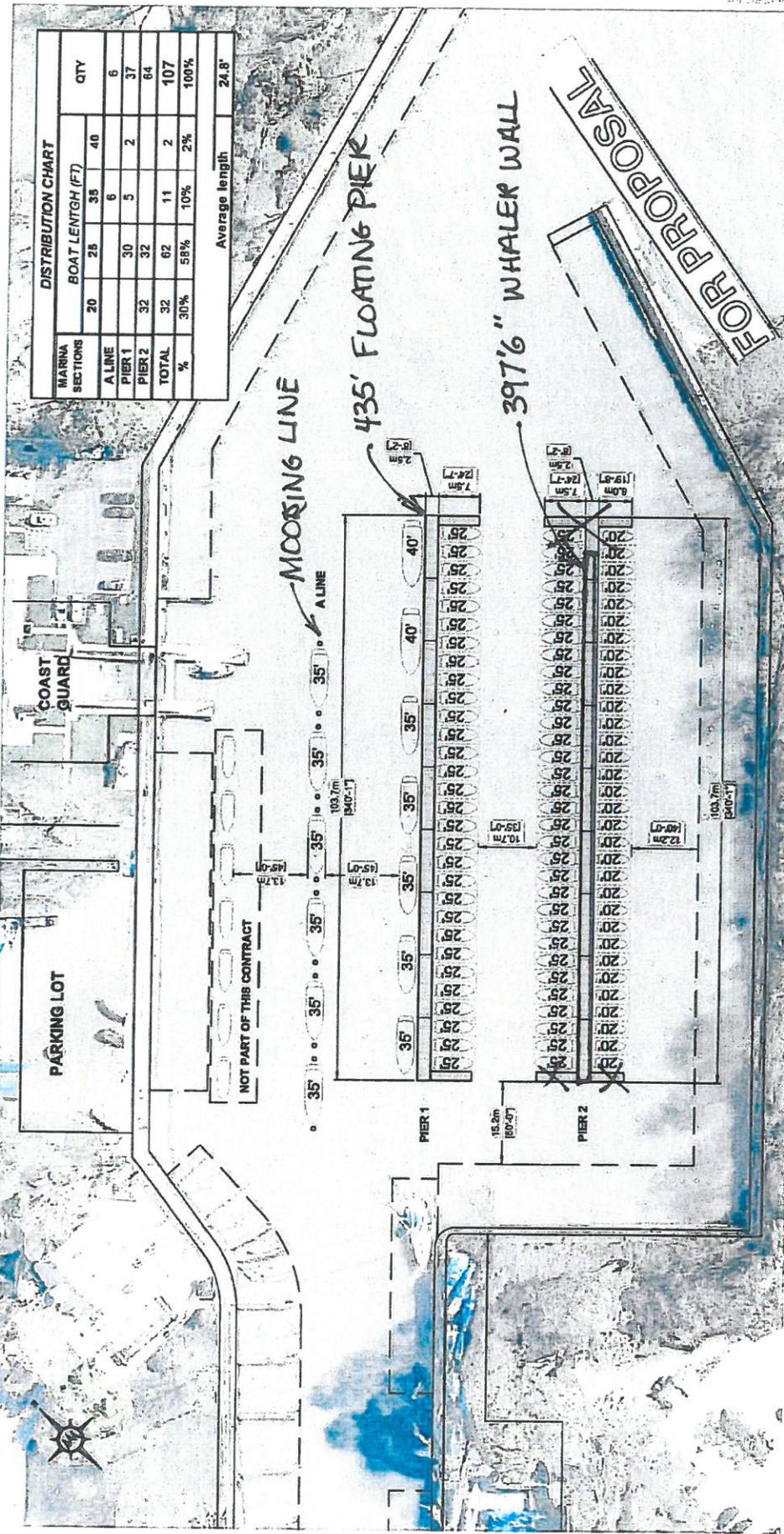
Wilmette Harbor  
Floating Pier System

20 Harbor Drive  
Wilmette, IL 60091





CONCEPTUAL LAYOUT



DISTRIBUTION CHART		
MARINA SECTIONS	BOAT LENGTH (FT)	QTY
A LINE	20	35
PIER 1	30	5
PIER 2	32	2
TOTAL	62	11
%	30%	58%
		10%
		2%
		100%
Average length		24.8'

LAYOUT PLAN VIEW N.T.S.

**STRUCTURMARINE**  
www.STRUCTURMARINE.CO.UK

PROJECT: WILMETTE HARBOR ASSOCIATION, ILLINOIS  
NO. PROJECT: 7322  
PROPOSAL LAYOUT

SCALE: N.T.S.  
DRAWN BY: T.L.  
APPROVED BY:

NO. DRAWING: 7322-PR-01  
DATE: 18-11-2014  
DRAWING REF:

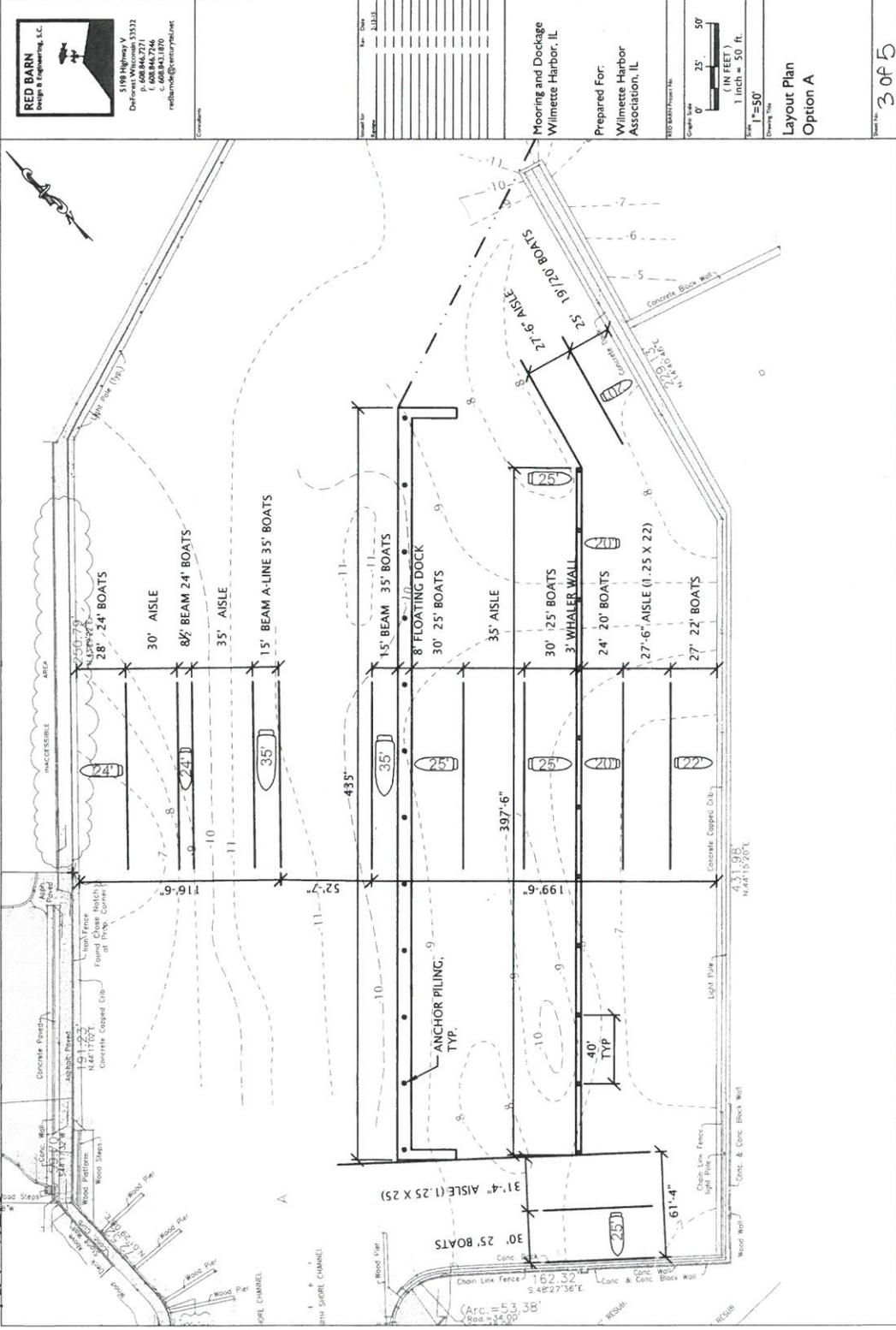
PROJ. NO. 7322  
DATE: 18-11-2014  
DRAWN BY: T.L.  
APPROVED BY:

PROJ. NO. 7322  
DATE: 18-11-2014  
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APPROVED BY:

PROJ. NO. 7322  
DATE: 18-11-2014  
DRAWN BY: T.L.  
APPROVED BY:

PROJ. NO. 7322  
DATE: 18-11-2014  
DRAWN BY: T.L.  
APPROVED BY:

**PLAN VIEW**



**RED BARN**  
Design & Engineering, LLC

5198 Highway 77  
Duck, NC 28523  
P. 608.846.7711  
F. 608.846.7746  
redbarn@earthlink.net

Rev.	Date	Description
1	8.13.15	Issue for Construction

Mooring and Dockage  
Wilmette Harbor, IL

Prepared For:  
Wilmette Harbor  
Association, IL

RED BARN PROJECT No. \_\_\_\_\_

Graphic Scale: 0' 25' 50'

(IN FEET)  
1 inch = 50 ft.

Scale: 1"=50'

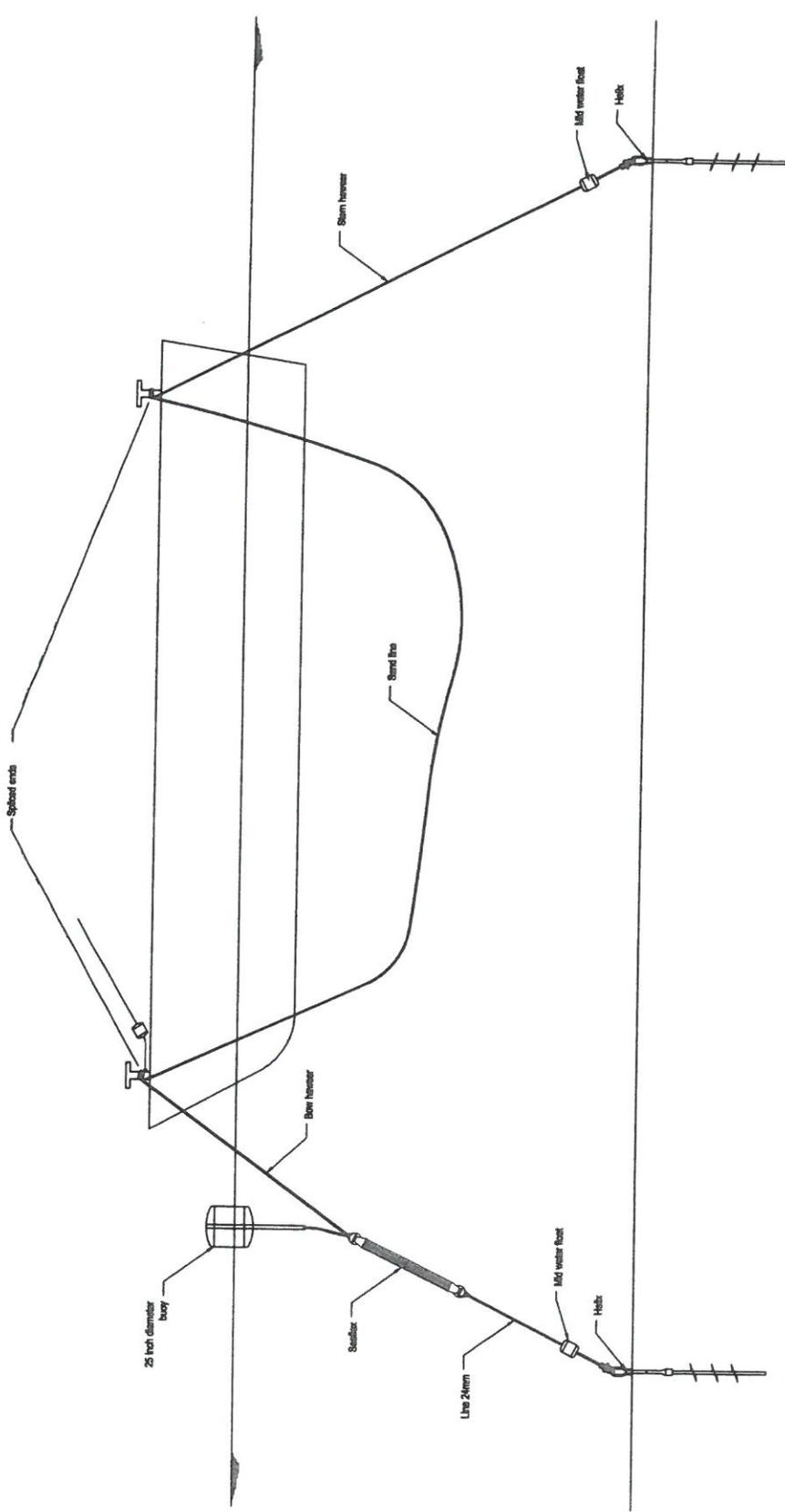
Drawing Title

Layout Plan  
Option A

Sheet No. 3 of 5



# SEAFLEX HELICAL ANCHOR SYSTEM DETAIL



As dimensioned by Bluewater Design.

Line name	Boat 40'		Boat 50'		Boat 60'	
	Length	20'	Length	20'	Length	20'
Bow hawser	17'	18mm	20'	24mm	20'	24mm
Stern line	65'	12mm	65'	12mm	75'	12mm
Stern hawser	65'	18mm	60'	24mm	60'	24mm
Anchor spacing	80'		80'		100'	

**Dimension Parameters :** See Seaflex Force Chart  
 [Lowest Water Level]  
 [Water Level Variation]  
 [Max Wind Velocity]  
 [Wave Height]  
 [Current]

**NOTE:**  
 1. Indicative placement of anchors, actual placement to be determined at time of installation  
 2. All dimensions in millimeters/meters unless noted otherwise  
 3. Do not scale, use figured dimension only

REV	DESCRIPTION	SIGN	DATE
Project name: Catalina mooring			
Drawing by: TH			
Date: 20140408			
Scale:			
Client: Seaflex			Seaflex Project number
Tel: +46 90 16 06 50			Sheet No. 5 of 5
PHONE: +46 90 16 06 51			
FAX: +46 90 16 06 51			
E-mail: info@seaflex.net			





