



PUBLIC NOTICE

APPLICATION FOR PERMIT

**U.S. ARMY
CORPS OF ENGINEERS
CHICAGO DISTRICT**

PUBLIC NOTICE/APPLICATION NUMBER: LRC-2012-343

COMMENT PERIOD BEGINS: May 25, 2016
COMMENT PERIOD EXPIRES: June 24, 2016

PUBLIC NOTICE
U.S. Army Corps of Engineers

APPLICANT

Michael Hara
285 North Deere Park Drive East
Highland Park, Illinois 60035

PROPOSED ACTION

Proposal to construct a breakwater protected beach and other associated activities along Lake Michigan located at 411 and 391 Sheridan Road in Winnetka (see attached drawings). A detailed description of this proposal is provided on page 2 of this notice.

LOCATION OF PROPOSED ACTION

Within Lake Michigan at 411 and 391 Sheridan Road in Winnetka, Cook County, Illinois

Interested parties are hereby notified that an application has been received for a Department of the Army permit for the activity described herein and as shown on the attached drawings. You are invited to provide your comments by June 24, 2016 on the proposed work, which will become part of the record and will be considered in the decision. A permit will be issued or denied under Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403) and Section 404 Action of the Clean Water Act of 1972(33 U.S.C. 1344)

Written comments shall be mailed to:

U.S. Army Corps of Engineers
Chicago District, Regulatory Branch
Attn: **LRC-2012-343**, Mr. Soren Hall
231 South LaSalle Street, Suite 1500
Chicago, Illinois 60604-1437

It should be noted that ALL comments received by this office (via hard copy or electronic) will only be accepted with the full name and address of the individual commenting, and must be received by the close of the public notice period. Electronic comments may be sent to the project manager at Soren.G.Hall@usace.army.mil.

PROJECT DESCRIPTION

The applicant proposes to construct a breakwater protected beach within Lake Michigan at 391 and 411 Sheridan Road in Winnetka.

The site currently contains a number of structures that would be modified or removed. North of the site at 419 Sheridan Road, a permit is under review to replace the existing steel groin with a quarystone breakwater. A second steel groin is located along the property line between 411 and 391 Sheridan Road with a breakwater extending southward from the groin. This breakwater is proposed to be removed. The 391 property also contains concrete modular structures and stone near the boat ramp that will be removed. The existing breakwater extending north from the steel groin on the south end of the property will be modified. Finally, the existing revetment at the 391 property would be maintained.

The proposed work would create two beach cells, one each at 391 and 411 Sheridan Road. The north beach cell at 411 Sheridan Road would be created by constructing a breakwater spur from the proposed breakwater at 419 Sheridan Road. A new central breakwater would be constructed at the end of the central groin to close the north cell. In the south cell, this central breakwater would replace the breakwater being removed and be located further lakeward of the existing structure. The existing southernmost breakwater would be maintained and shortened to enclose the south cell. The crest elevations of the proposed breakwaters is noted on sheet 3 of the plans (see attached).

In addition to the creation of the two beach cells described above, the existing revetment in the southern cell would be maintained as necessary. This revetment is located entirely above the ordinary high water mark (OHWM) of 581.5 Great Lakes Datum (GLD). The Corps regulates work occurring lakeward of the OHWM; therefore, the revetment maintenance work is not subject to Corps' regulations. Stone protection is also proposed around the base of the existing boat ramp to prevent scour. The proposal also includes a request for 10 consecutive years of sand nourishment for the entire project area. Please note that the proposed revetment in the north cell, as noted on sheet 2 of the plans (see attached), has been removed. Annual sand nourishment (for 10 years) is proposed to protect the existing stone wall and patio.

The purpose of the proposed breakwater protected beach cells is to establish a more stable layer of sand to reduce downcutting of the clay lakebed. The purpose of the proposed sand nourishment is to help maintain sand lost during storm events. Erosion of the clay lakebed, if not prevented, could result in additional beach erosion and undermine the existing shoreline structures. To this end, the project includes the initial placement of 3,720 tons of clean sand fill. The placement of sand includes the 20% overfill required by the Corps and the IDNR. This would be done in an effort to compensate for the sand that would otherwise be removed from the littoral system by the construction of the breakwater cells. The proposed sand nourishment (up to 1000 tons annually) would help maintain the beach for shoreline protection as well as provide additional sand to the littoral drift, when eroded. No mitigation is proposed for this project as

total impact to waters of the U.S. totals 0.10 acres (area of quarried stone for breakwaters). Fill material exceeding the 0.10 acre threshold requires mitigation.

Sheet 3 of the plans (see attached) identifies the approximate location of the Design Waterline (DWL) at a design water elevation of 580' GLD. Immediately following the construction of the beach cell system, the beach will be larger than shown on this sheet. However, some of the initial sand is overfill and will be lost during storm events. The purpose of the DWL is to depict the anticipated beach configuration once the system has stabilized and some of the initial sand has been lost. This DWL and beach configuration is partially based on the performance of similar projects constructed in the area.

Pedestrian access along the shoreline at 411 Sheridan Road would be accommodated through the construction of stairs as part of the in the breakwater under review at 419 Sheridan Road. Pedestrian access is not proposed elsewhere in the project area as these area will not be modified by the proposed work.

In addition to the proposed plan, two alternative plans were provided in the application. One alternative includes the removal of the existing breakwater extending south off of the central groin, the concrete modular structures, and the stone near the existing boat ramp. All other structures would remain. The proposed work would include encapsulation of the central groin in stone. This alternative was dismissed by the applicant because it would not address lakebed erosion and the gap between the breakwater would be too large to protect the shoreline.

A second alternative includes removal of the concrete modular structures and the stone near the existing boat ramp. The existing breakwater extending off of the existing central groin would remain and a new breakwater would extend north from the central groin. The existing southern breakwater would also remain. This alternative was dismissed by the applicant because it does not adequately address lakebed erosion nor protect the structures west of the beach,

Please see the attached exhibits for more information.

MITIGATION

The Corps has not verified the adequacy of this mitigation proposal at this time and will make the final determination on whether the proposed mitigation is appropriate and practicable in accordance with 33 CFR Part 332.

REGULATORY AUTHORITY

This proposed action will be reviewed according to the provisions of Section 10 of the Rivers and Harbors Act of 1899 and Section 404 of the Clean Water Act of 1972.

JURISDICTION

This application will be reviewed according to the provisions of Section 10 of the Rivers and Harbors Act of 1899 and Section 404 of the Clean Water Act of 1972 due to placement of fill in a navigable waterway.

EVALUATION FACTORS

The decision whether to issue a permit will be based on an evaluation of 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. In addition, if the proposed activity involves the discharge of dredged or fill material into waters of the United States, the evaluation of the impact on the public interest will include application of Section 404(b)(1) guidelines (40 CFR 230) promulgated by the U.S. Environmental Protection Agency.

The Corps of Engineers is also soliciting comments from the public, Federal, state and local agencies, Indian tribes, and other interested parties in order to consider and evaluate the potential impacts of the proposed activity. Once this office completes a review of the comments received, it will be determined whether to issue, modify, condition, or deny a permit for this proposal.

To prepare this decision, comments are taken into consideration to assess impacts on the public interest factors listed above, as well as endangered species, historic properties, water quality, and general environmental effects. Comments will be used in the preparation of an Environmental Assessment and/or Environmental Impact Statement pursuant to the National Environmental Policy Act. A determination concerning the need for a public hearing will also be based on the comments received.

PRELIMINARY EVALUATION OF SELECTED FACTORS

WATER QUALITY:

The applicant has applied to the Illinois Environmental Protection Agency (IEPA) for water quality certification, or waiver thereof, for the proposed activity in accordance with Section 401 of the Clean Water Act. Certification or waiver indicates that the IEPA believes the activity will not violate applicable water quality standards. The review by the IEPA is conducted in accordance with the Illinois water quality standards under 35 Illinois Administrative Code Subtitle C by providing an antidegradation assessment, which includes an evaluation of alternatives to any proposed increase in pollutant loading that may result from this activity.

The "Fact Sheet" containing the antidegradation assessment for this proposed project may be found on the IEPA's web site, at www.epa.state.il.us/public-notice/. In the event that the IEPA is unable to publish the "Fact Sheet" corresponding to the timeframe of this Joint Public Notice, a separate public notice and "Fact Sheet" will be published by the IEPA at the web site identified above. You may also obtain a copy of the "Fact Sheet" by contacting the IEPA at the address or telephone number shown below.

Written comments concerning possible impacts to water quality should be addressed to the following agency, along with a copy of the comments provided to the Corps of Engineers:

Illinois Environmental Protection Agency
Bureau of Water
Watershed Management Section
1021 N. Grand Avenue East
P.O. Box 19276
Springfield, Illinois 62794-9276

If you have any questions please contact the IEPA at (217) 782-3362.

DEPARTMENT OF NATURAL RESOURCES:

The applicant has applied to the Illinois Department of Natural, Office of Water Resources (IDNR-OWR) for a permit pursuant to the State of Illinois Rivers, Lake and Streams Act (615 ILCS 5). Comments concerning the IDNR-OWR permit should be addressed to the following agency, along with a copy of the comments provided to the Corps of Engineers:

Illinois Department of Natural Resources
Office of Water Resources
Michael A. Bilandic Building
160 N. LaSalle Street, Suite S-700
Chicago, IL 60601

If you have any questions please contact the IDNR at (312) 793-5947.

ENDANGERED AND THREATENED SPECIES:

The Corps of Engineers has determined that the proposed activity would not affect any federally-listed endangered or threatened species or critical habitat for any endangered or threatened species, pursuant to the Endangered Species Act of 1973, as amended (16 U.S.C. 1531 et seq.). Therefore, consultation with the U.S. Fish and Wildlife Service pursuant to Section 7 of the Endangered Species Act does not appear to be warranted at this time.

HISTORIC PROPERTIES/CULTURAL RESOURCES:

Preliminary review indicates that the proposed activity is not likely to adversely affect any historic property which is listed, or eligible for listing, on the National Register of Historic Places.

ENVIRONMENTAL IMPACT STATEMENT

A preliminary determination has been made that an environmental impact statement is not required for the proposed work.

PUBLIC HEARING

Any person may request in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for public hearing shall state with particularity the reasons for holding a public hearing. A request for a hearing may be denied if

substantive reasons for holding a hearing are not provided or if there is otherwise no valid interest to be served.

It should be noted that materials submitted as part of the permit application become part of the public record and are thus available to the general public under the procedures of the Freedom of Information Act (FOIA). Individuals may submit a written request to obtain materials under FOIA or make an appointment to view the project file at the Chicago District Corps of Engineers Office of Counsel.

Interested parties wishing to comment on the proposed activity must do so in writing no later than **June 24, 2016**. It is presumed that all parties receiving this notice will wish to respond to this public notice; therefore, a lack of response will be interpreted as meaning that there is no objection to the project as described.

This public notice is not a paid advertisement and is for public information only. Issuance of this notice does not imply Corps of Engineers endorsement of the project as described.

If you have any questions, please contact Mr. Soren Hall of my staff by telephone at 312-846-5532, or email at Soren.G.Hall@usace.army.mil. **It should be noted that ALL comments received by this office (via hard copy or electronic) will only be accepted with the full name and address of the individual commenting.** You can also visit our website at <http://www.lrc.usace.army.mil/Missions/Regulatory.aspx> for more information on our program.

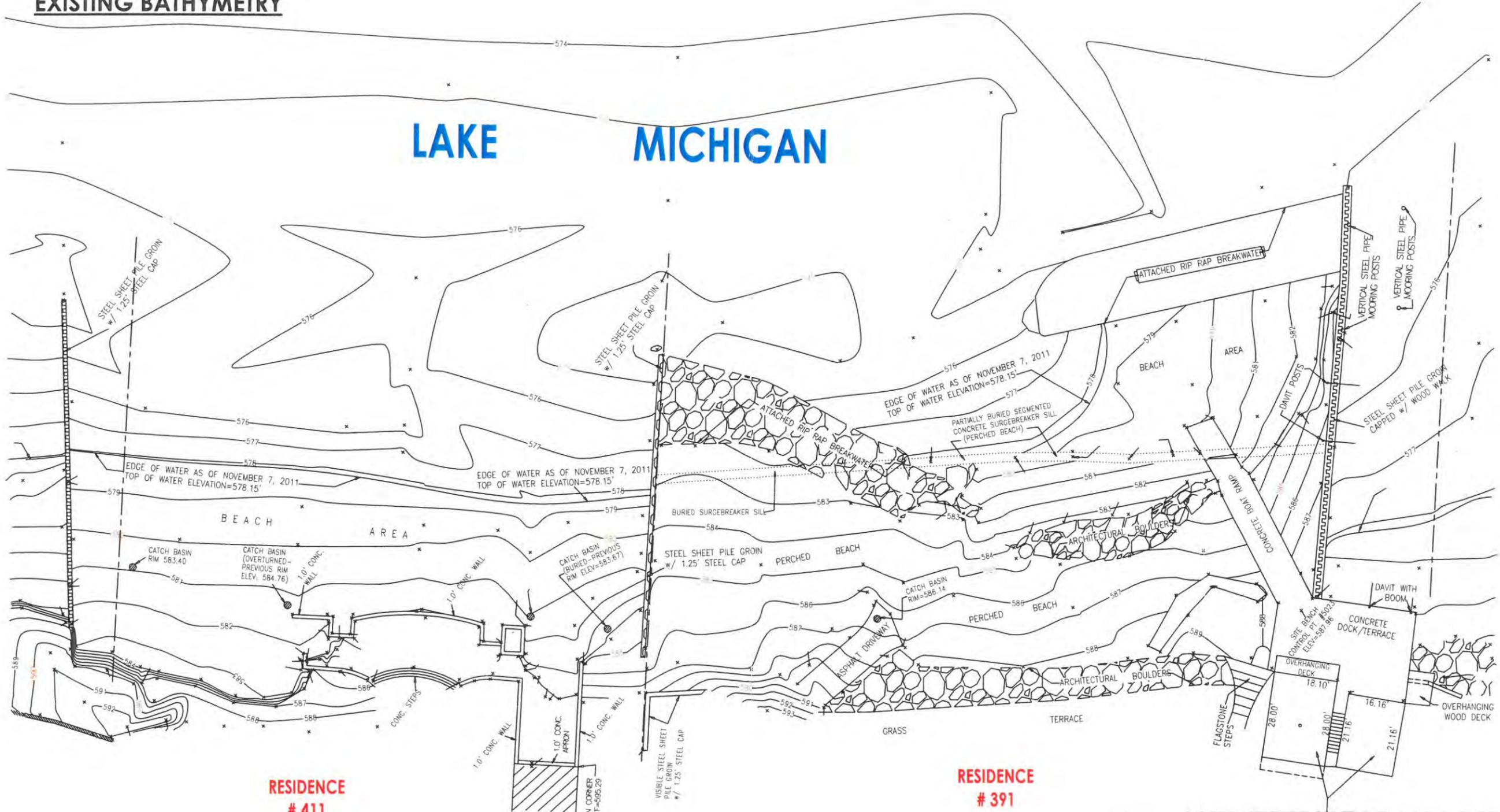
FOR THE DISTRICT COMMANDER:

ORIGINAL SIGNED

Kathleen G. Chernich
Chief, East Section
Regulatory Branch

EXISTING BATHYMETRY

LAKE MICHIGAN



RESIDENCE # 411

RESIDENCE # 391

1 STORY CONCRETE BOATHOUSE (UNDER CONSTRUCTION)
FOUNDATION CORNER IT=595.29

NAME	DATE	Project Location:
DRAWN SN	10/22/15	391 & 411 SHERIDAN, WINNETKA
CHECKED JS	10/30/15	

PROPRIETARY AND CONFIDENTIAL

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COMMENTS:
DIMENSIONS ARE IN FEET
TOLERANCES: +.5', -.1'
ALL ELEVATIONS IN IGLD 1985

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550 Frontage Rd., Suite 3735
Northfield, Illinois 60093
847-446-1436
www.shabica.com

SIZE **B** EXISTING BATHYMETRY REV

PLAN VIEW - EXISTING STRUCTURES

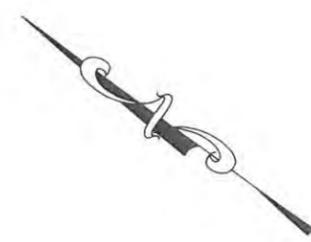
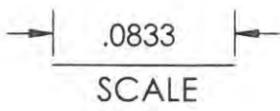
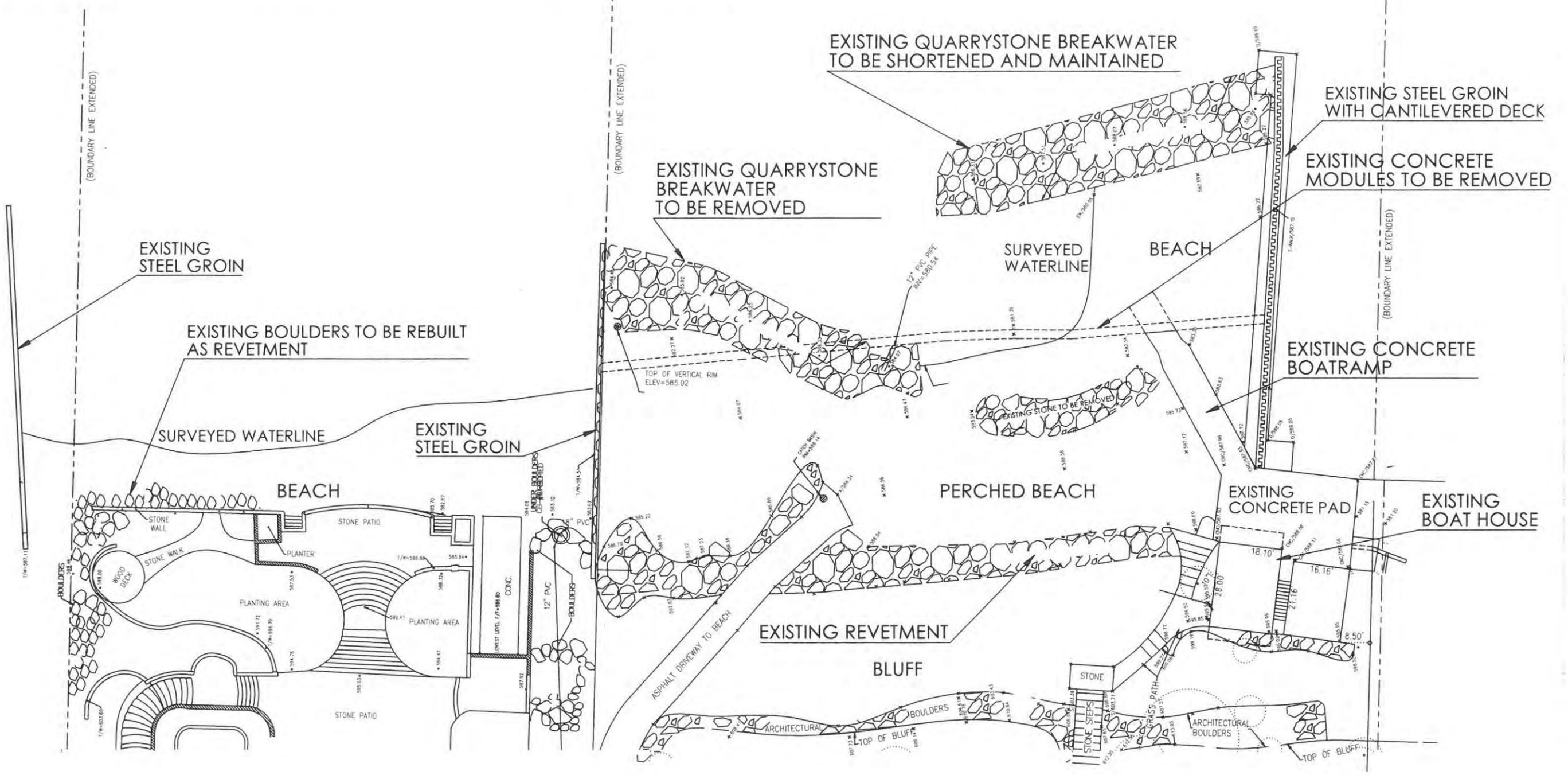
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LAKE MICHIGAN



NAME	DATE	Project Location:
DRAWN	SN 10/22/15	391 & 411 SHERIDAN, WINNETKA
CHECKED	JS 10/30/15	

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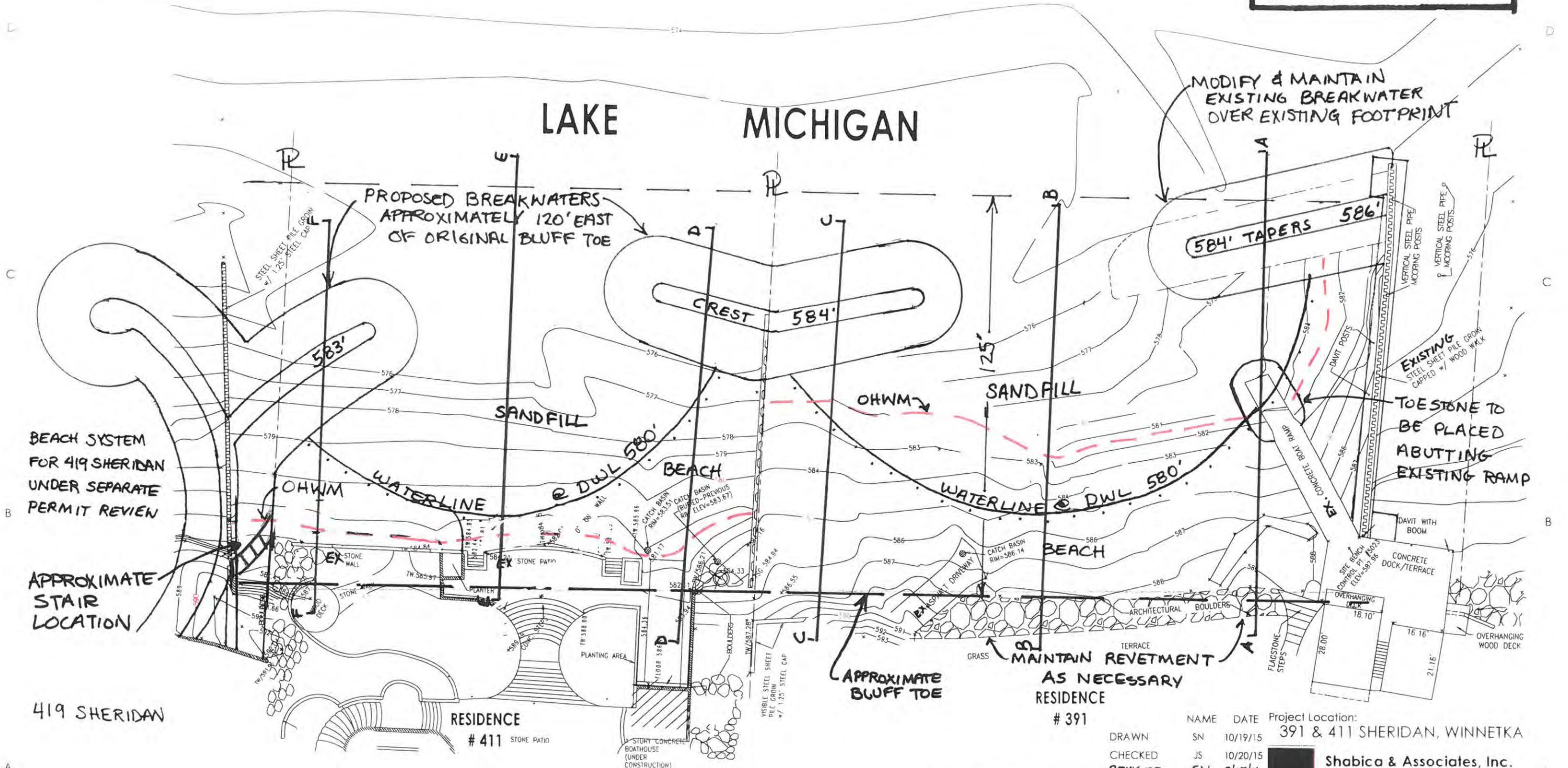
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SIZE **B** PLAN VIEW EXISTING STRUCTURES REV

PLAN VIEW

COVERAGE OF NEW FILL ON THE LAKEBED BELOW THE OHWM IS 0.095 ACRES

LAKE MICHIGAN



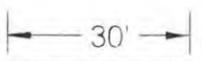
BEACH SYSTEM FOR 419 SHERIDAN UNDER SEPARATE PERMIT REVIEW

APPROXIMATE STAIR LOCATION

419 SHERIDAN

RESIDENCE # 411
STONE PATIO

RESIDENCE # 391



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DRAWN	SN	10/19/15
CHECKED	JS	10/20/15
REVISED	SN	3/17/16
REV.	SN	5/12/16
REV.	SN	5/20/16

COMMENTS:

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ALL ELEVATIONS IN IGLD 1985

NAME DATE Project Location:
391 & 411 SHERIDAN, WINNETKA

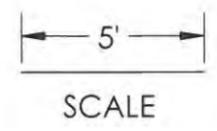
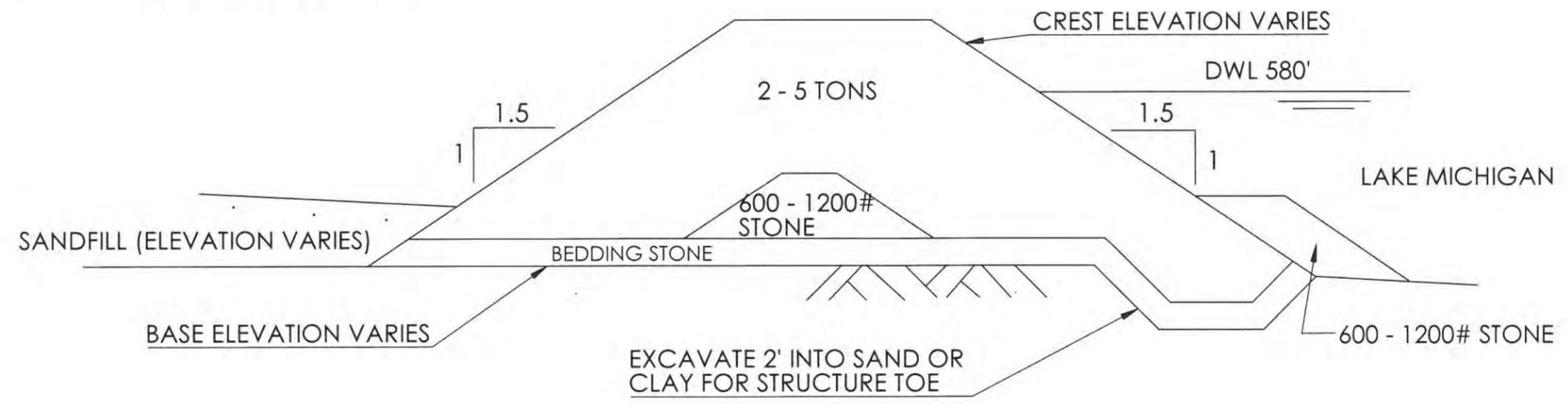
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SIZE
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PLAN VIEW
PROPOSED WORK

REV

BREAKWATER SECTION - TYPICAL



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REV.	SN 5/24/16

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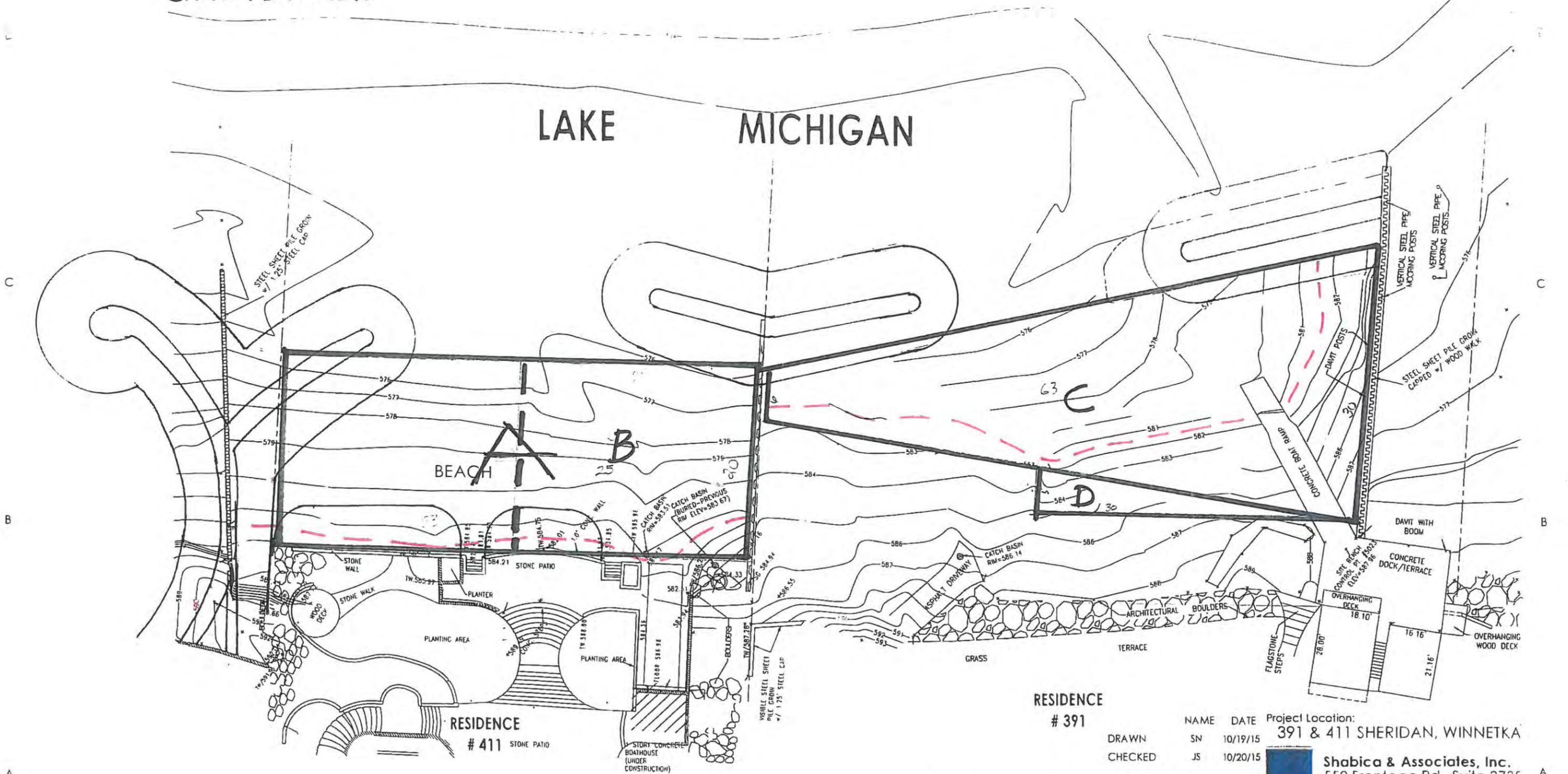
Project Location:
391 & 411 SHERIDAN, WINNETKA

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SIZE **B**
CROSS SECTIONS:
BREAKWATER
AND REVETMENT

SAND PLANVIEW

LAKE MICHIGAN



RESIDENCE
391

DRAWN	SN	10/19/15	NAME	DATE	Project Location:
CHECKED	JS	10/20/15			391 & 411 SHERIDAN, WINNETKA

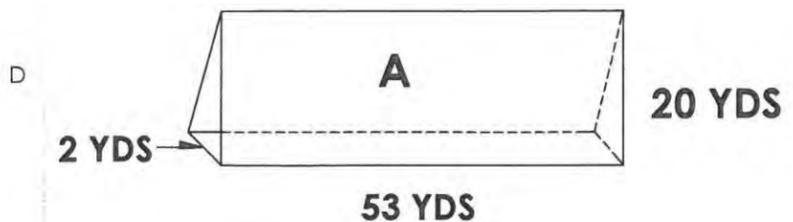
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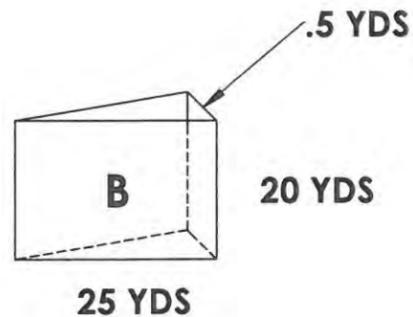
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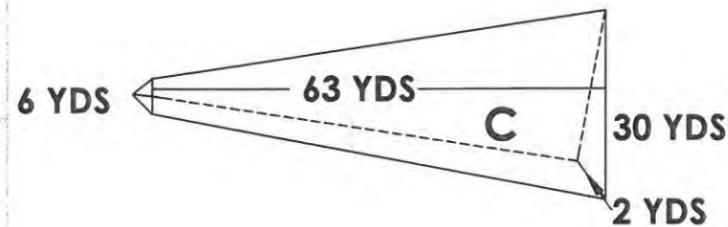
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PLAN VIEW - SAND
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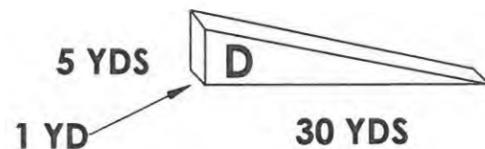
$$\frac{20 \text{ YDS} \times 53 \text{ YDS} \times 2 \text{ YDS}}{2} = 1060 \text{ YDS}$$



$$\frac{20 \text{ YDS} \times 25 \text{ YDS} \times 0.5 \text{ YDS}}{2} = 125 \text{ YDS}$$



$$\frac{18 \text{ YDS}^* \times 63 \text{ YDS} \times 2 \text{ YDS}}{2} = 1134 \text{ YDS}$$



$$5 \text{ YDS} \times 30 \text{ YDS} \times 1 \text{ YD} = 150 \text{ YDS}$$

1060 + 125 + 1134 + 150 = 2469 CU YDS
 2469 CU YDS X 1.25 CU YDS/TON = 3,086 TONS
 3,086 TONS X 20% OVERFILL = 617 TONS
 3,086 TONS + 617 TONS = 3703 TONS
PLACE 3,720 TONS OF CLEAN SANDFILL

* AVERAGE 6 AND 30 TO COME UP WITH 18 YDS

DRAWN	NAME	DATE	Project Location:
CHECKED	SN	10/28/15	391 & 411 SHERIDAN, WINNETKA
	JS	11/2/15	

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SIZE **B** SAND CALCULATIONS REV

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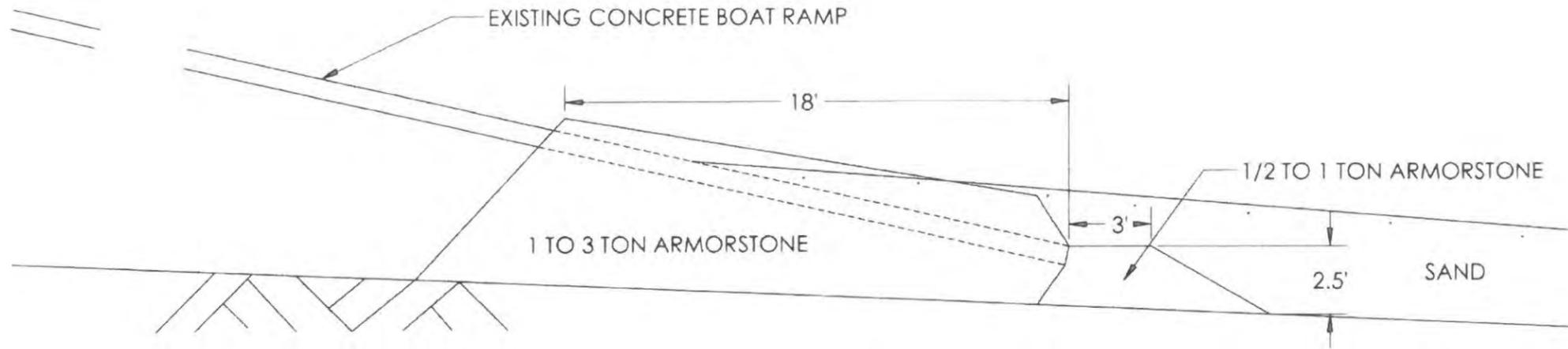
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SECTION G-G

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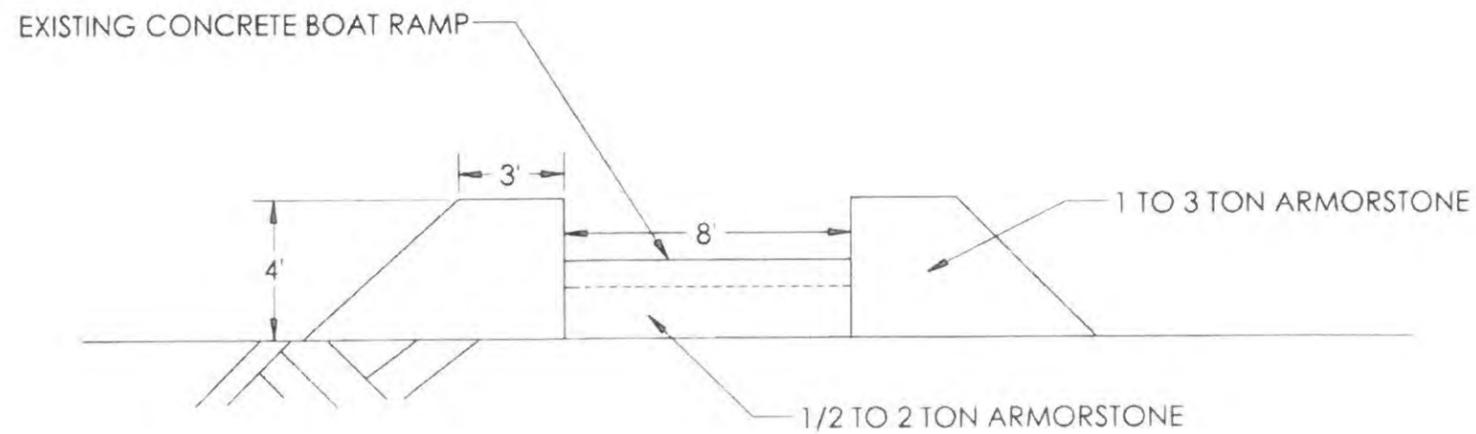
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SECTION H-H

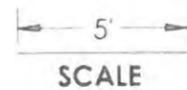
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	NAME	DATE	Project Location:
DRAWN	SN	3/9/16	391 & 411 SHERIDAN, WINNETKA
CHECKED	JS	3/9/16	
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SIZE
B

BOAT RAMP TOE PROTECTION

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