



US Army Corps  
of Engineers

**Detroit District**

# Public Notice

Applicant: Inwood Harbor Owners Association (Lynn Marshall)

In Reply Refer To: Corps File No. LRE-2007-00506-56-S12

Date: February 1, 2013  
Expires: February 21, 2013

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## **Proposed Maintenance Dredging and Beach Nourishment in Lake Michigan at Elk Rapids, Michigan**

**Applicant:** Inwood Harbor Owners Association, ATTN: Lynn Marshall, 6848 East Harbor Drive, Elk Rapids, MI 49629

**Project Location:** The site is located at Inwood Harbor, Elk Rapids, Antrim County, Michigan.

**Federal Authority:** The applicant has applied for a Department of the Army permit under Section 10 of the Rivers and Harbors Act of 1899 and Section 404 of the Clean Water Act.

**State Authority:** Section 401 of the Clean Water Act requires that all discharges of dredged or fill material must be certified by the State as complying with applicable effluent limitations and water quality standards. Coastal Zone Management Certification (or waiver thereof) is required from the State of Michigan if this proposed activity would occur within the designated coastal zone.

**Project Description:** As shown on the attached plans, the applicant proposes to perform annual dredging, by hydraulic means, of approximately 890 cubic yards of material from a 40 feet wide by 150 feet long area in the Inwood Harbor Channel entrance to East Grand Traverse Bay to a depth of approximately 6 feet below Low Water Datum of 577.5 feet (IGLD 1985). Dredge spoils from the entrance channel would be transported via submerged slurry line and discharged along the shoreline of lots 12 through 16, in a 400 foot long by 80 foot wide by 2 feet deep area below the Ordinary High Water Mark elevation of 581.5 feet, for beach nourishment.

Perform one-time dredging, by hydraulic means, of approximately 2,220 cubic yards of material from an area 30 feet wide by 2,000 feet long, located in a channel in the inland harbor, to a depth of 4.5 feet below Low Water Datum of 577.5 feet. Dredged spoils from the one-time dredging would be placed in geotextile tubes located on lot # 38 and drained into Lake Michigan. Once drained, the dredged material from the geotextile tubes would be disposed of in an upland location.

The purpose of the proposed work is to provide adequate depths for pleasure craft.

**Avoidance & Minimization:** The applicant has stated the following concerning avoidance and minimization of impacts to Waters of the United States: The channel is approximately 40 years old. There are no alternative but to remove sand from bottom to increase depth after 40 years of accumulation.

The Corps has not verified the adequacy of the applicant's avoidance and minimization statement at this time.

**Compensatory Mitigation:** The applicant has stated the following concerning compensatory mitigation for unavoidable impacts to Waters of the United States: We feel that there will be no unavoidable or unfavorable impacts to waters of the United States and feel there will be no reason or need for compensatory mitigation.

The Corps has not verified the adequacy of this mitigation proposal at this time.

**Other Authorizations:**

A permit is required from the Michigan Department of Environmental Quality under applicable provisions of the Natural Resources and Environmental Protection Act (NREPA), 1994 PA 451. The State file number is 12-05-0002.

**Comments:** We are publishing this notice in compliance with Title 33 Code of Federal Regulations Parts 320-332. Comments on the project should be submitted in writing and postmarked or delivered by the expiration date of this public notice. Comments of a positive or negative nature may be submitted. All responses must refer to file number LRE-2007-00506-56-S12. We will interpret a lack of response as meaning that there is no objection to the permit application. Comments should be filed with:

Charles M. Simon  
Chief, Permit Evaluation Western Branch  
Detroit District, Corps of Engineers  
477 Michigan Avenue  
Detroit, Michigan 48226-2550

Comments may be e-mailed to: James.D.Luke@usace.army.mil, but must include a name and mailing address.

**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 hearings shall state, with particularity, the reasons for holding a public hearing.

**Evaluation:** The decision whether to issue the Department of the Army permit will be based on evaluation of the probable impacts of the proposed activity on the public interest. That decision will reflect the national concerns 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.

The Corps of Engineers is soliciting comments from the public; Federal, State, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

This activity involves the discharge of dredged or fill material into waters of the United States. Therefore, the U.S. Army Corps of Engineers' evaluation of the impact of the activity on the public interest will include application of the guidelines promulgated by the Administrator of the Federal Environmental Protection Agency, under the authority of Section 404(b)(1) of the Clean Water Act.

**Endangered Species:** We will review this application for the potential impact on threatened or endangered species pursuant to Section 7 of the Endangered Species Act as amended. We are not aware of the presence of any listed species or critical habitat at or in the vicinity of the proposed worksite. We invite information and/or comments regarding the potential presence of, or impacts to, any listed species or critical habitat.

**Cultural Resources:** The District Staff has reviewed existing information on historic properties potentially affected by the proposed project, including the National Register of Historic Places. There are no recorded historic properties within the permit area. The permit area has been so extensively modified by modern development that little likelihood exists for the proposed project to impinge upon an undisturbed historic property. The District Engineer invites responses to this public notice from federal, state and local agencies, historical and archaeological societies, Indian tribes, and other parties likely to have knowledge of or concerns with historic properties in the area.

**Additional Information:** This public notice and drawings are also available for viewing/printing at: <http://www.lre.usace.army.mil/functions/rf/html/pncur.htm>. Questions concerning this application may be directed to Eric Warda at the Corps of Engineers address listed above, or telephone number 313-226-5382.

FOR THE DISTRICT ENGINEER:

Charles M. Simon  
Chief, Permit Evaluation Western Branch  
Regulatory Office

NOTICE TO POSTMASTERS:

We request that the above notice be conspicuously and continuously posted for the time period of this notice.



Inwood Harbor  
Project Location



All Measurements are approximate.

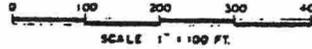
File Number: LRE-2007-00506-56-S12

File Name: Inwood Harbor Dredging

Applicant Name: Inwood Harbor Owners Association  
Antrim County, Michigan



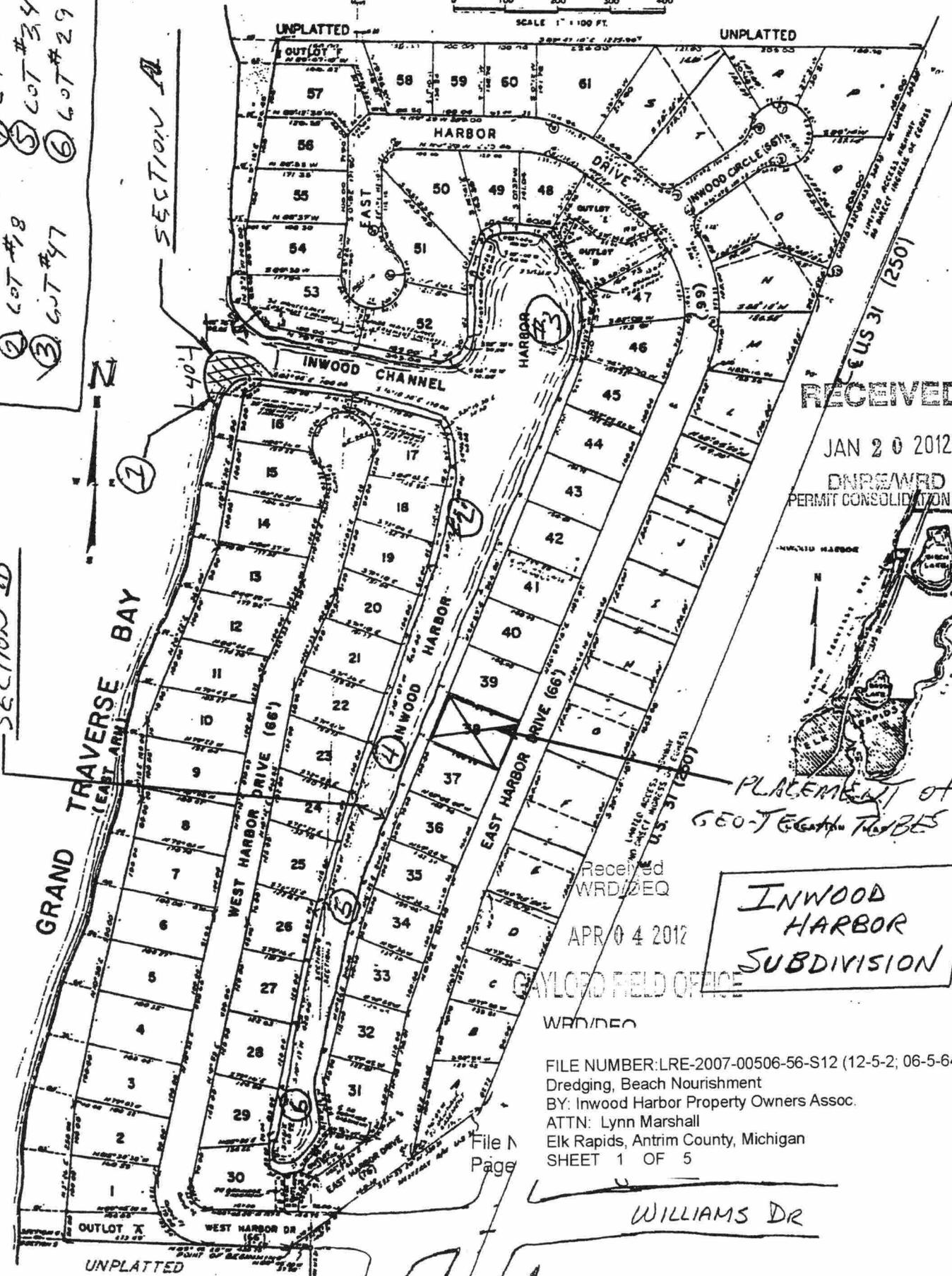
PART OF SECTIONS 3 and 4, T.29N., R.9W.  
ELK RAPIDS TOWNSHIP, ANTRIM COUNTY, MICHIGAN



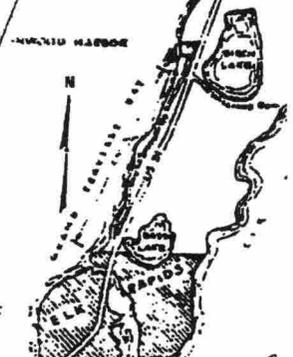
SOIL SAMPLE LOCATION  
① ENTRANCE  
② LOT #18  
③ LOT #47  
④ LOT #38  
⑤ LOT #34  
⑥ LOT #29

SECTION B

SECTION A



RECEIVED  
JAN 20 2012  
DNR/WRD  
PERMIT CONSOLIDATION UNIT



PLACEMENT OF  
GEO-TECH TUBES

INWOOD  
HARBOR  
SUBDIVISION

Received  
WRD/REQ

APR 04 2012

CAYLOR FIELD OFFICE

WRD/REQ

FILE NUMBER: LRE-2007-00506-56-S12 (12-5-2; 06-5-64)  
Dredging, Beach Nourishment  
BY: Inwood Harbor Property Owners Assoc.  
ATTN: Lynn Marshall  
Elk Rapids, Antrim County, Michigan  
SHEET 1 OF 5

File N  
Page

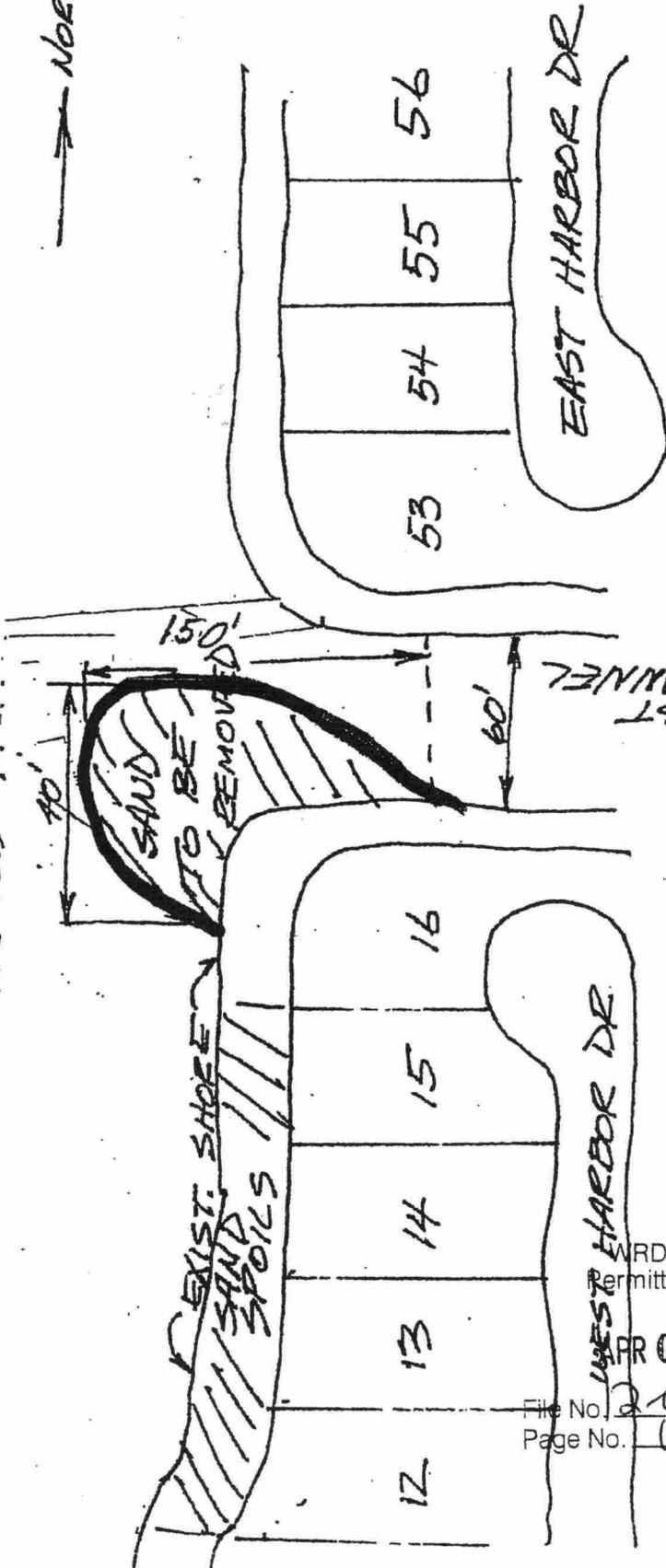
WILLIAMS DR

N. BAYSHORE Rd

2 Miles To ELK RAPIDS. Mi

40x150x4 = 24,000 ÷ 27 = 890 CU YARDS REMOVED

NORTH



PLAN VIEW

Received WRD/DEQ

APR 04 2012

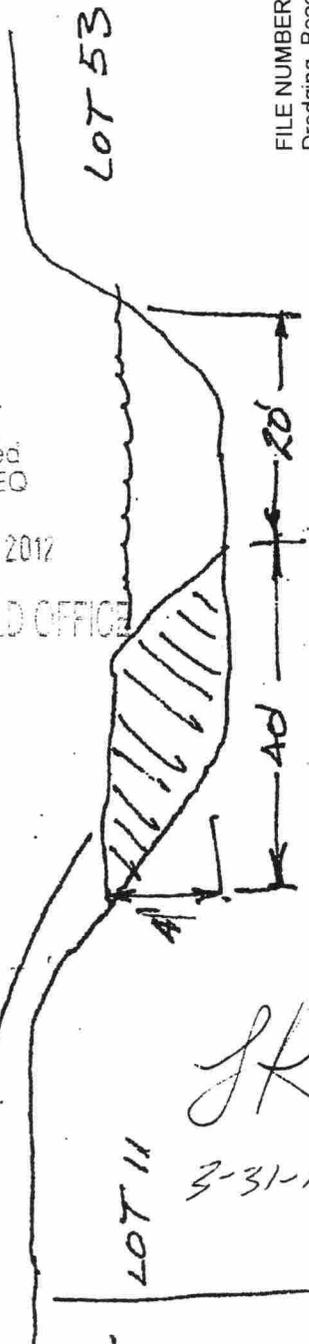
GAYLORD FIELD OFFICE

WRD/DEQ Permitted Plan

APR 04 2012

File No. 205-21  
Page No. 6 of 7

MOVED TO LOTS 12-13-14-15



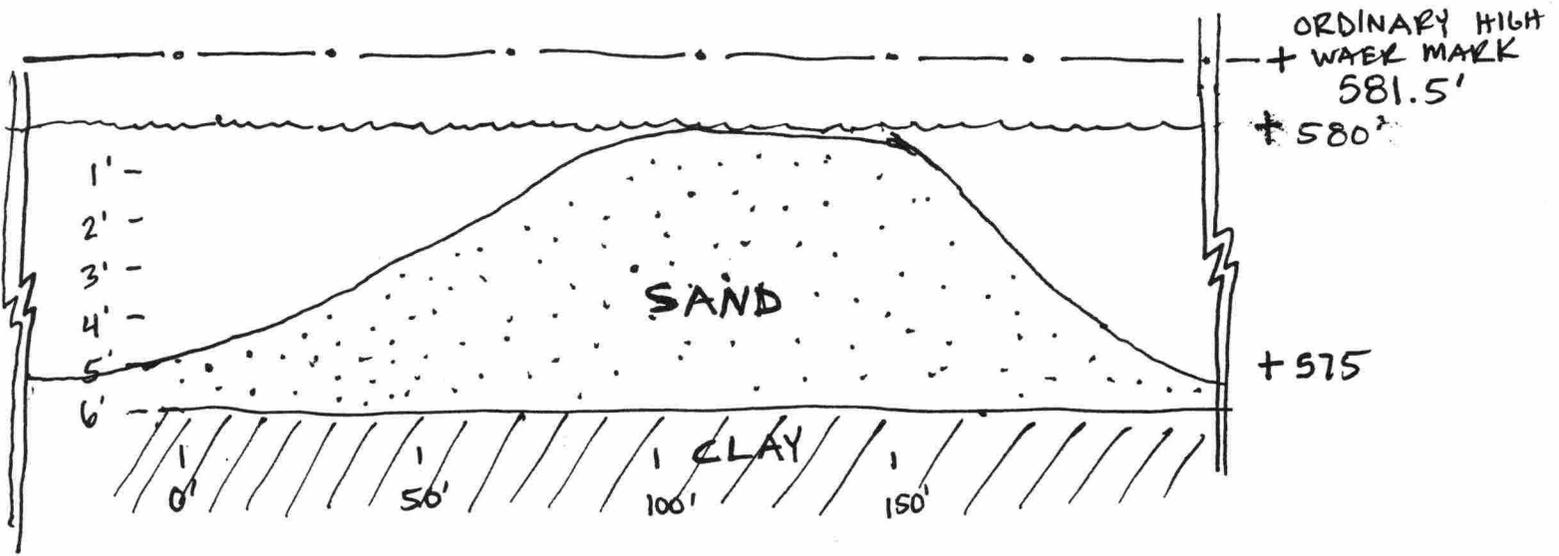
SECTION A  
VIEW A

\* YEARLY DREDGE

SRM  
3-31-12

FILE NUMBER: LRE-2007-00506-56-S12 (12-5-2; 06-5-64)  
Dredging, Beach Nourishment  
BY: Inwood Harbor Property Owners Assoc.  
ATTN: Lynn Marshall  
Elk Rapids, Antrim County, Michigan  
SHEET 2 OF 5

# ELEVATION VIEW D - BEACH NOURISHMENT AREA

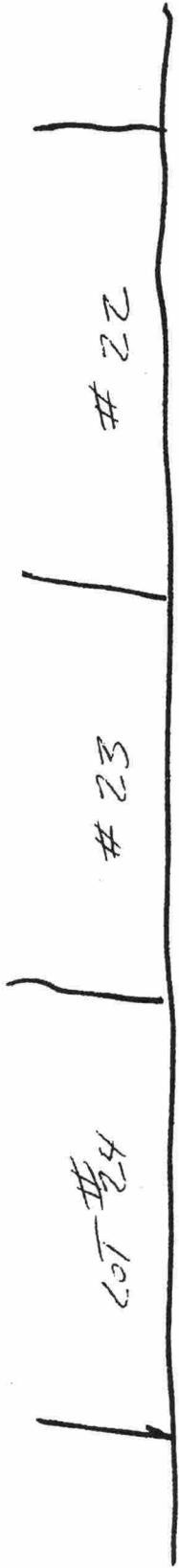


ALL DEPTHS APPROXIMATE

VERTICAL SCALE  = 1'  
HORIZONTAL SCALE  = 10'

LENGTH OF CHANNEL 2000' X 30' X 12" = 60,000' - 27' = 2,220 CUYARDS REMOVED

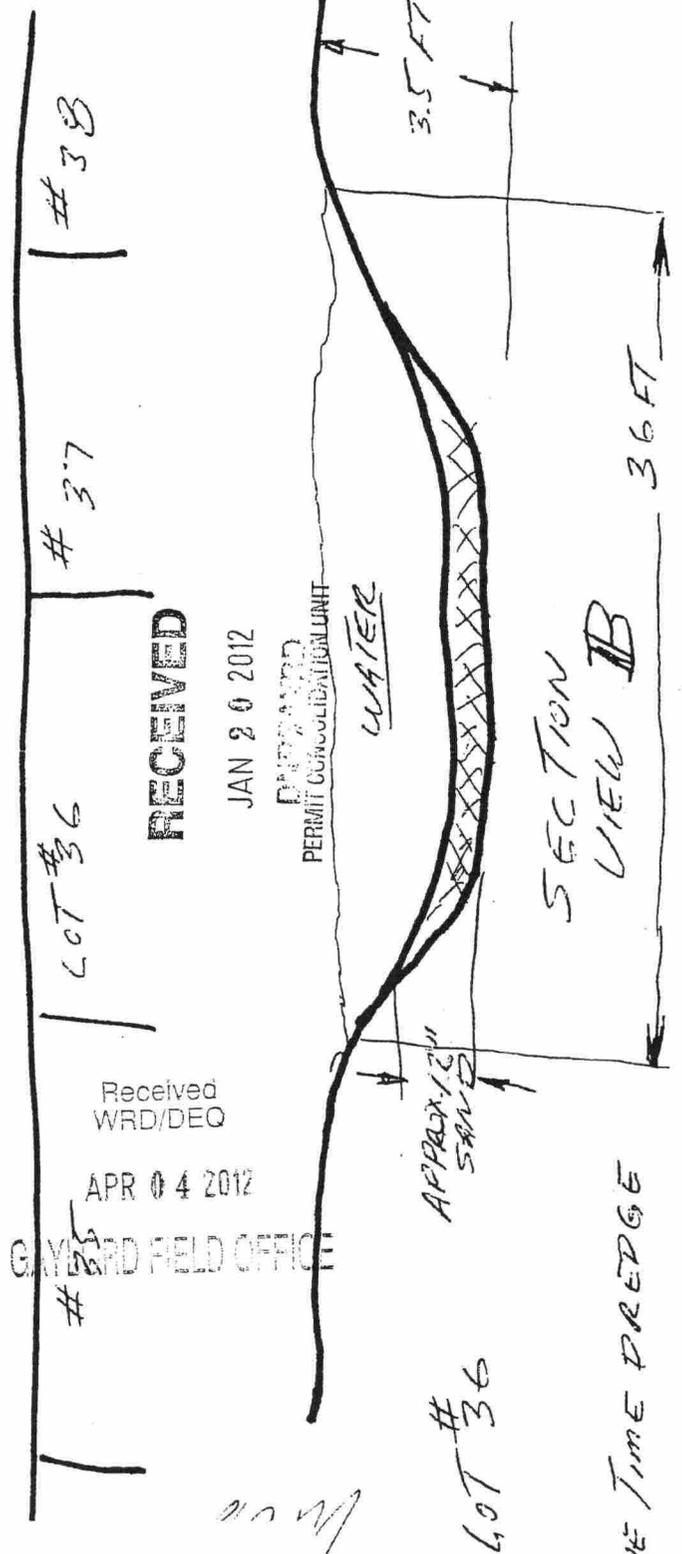
NORTH



PLAN VIEW  
EXISTING CHANNEL  
INWOOD HARBOR

30' SAND TO BE REMOVED

WRD/DEQ  
Permitted By



RECEIVED

JAN 20 2012

DREDGING  
PERMIT CONSOLIDATION UNIT

Received  
WRD/DEQ

APR 04 2012

GAYLARD FIELD OFFICE

FILE NUMBER: LRE-2007-00506-56-S12 (12-5-2; 06-5-64)  
Dredging, Beach Nourishment  
BY: Inwood Harbor Property Owners Assoc.  
ATTN: Lynn Marshall  
Elk Rapids, Antrim County, Michigan  
SHEET 4 OF 5

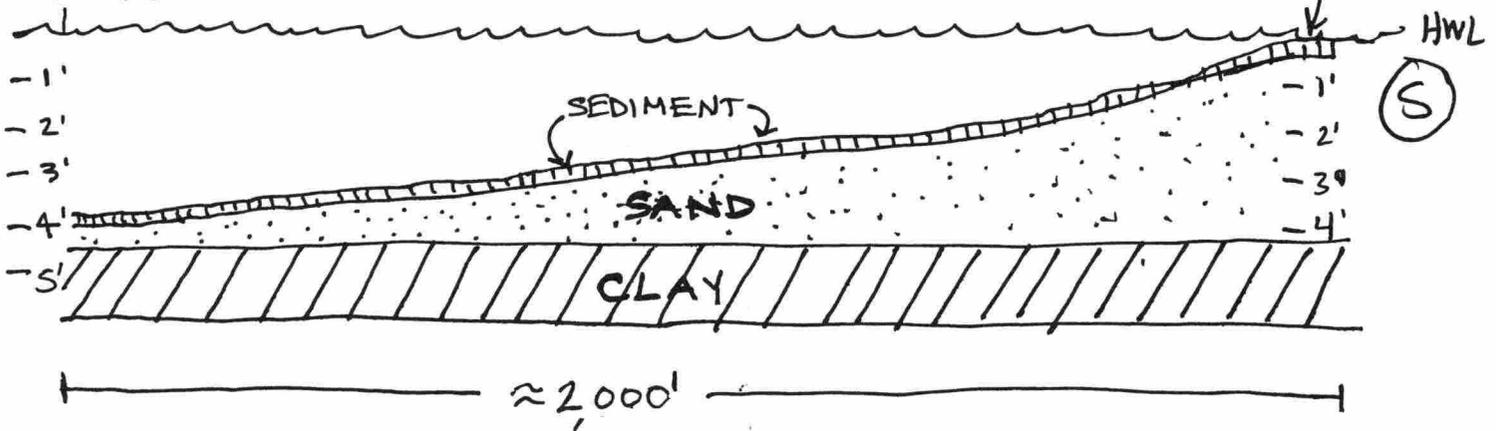
\* ONE TIME DREDGE

# CONCEPTUAL ELEVATION (NTS)

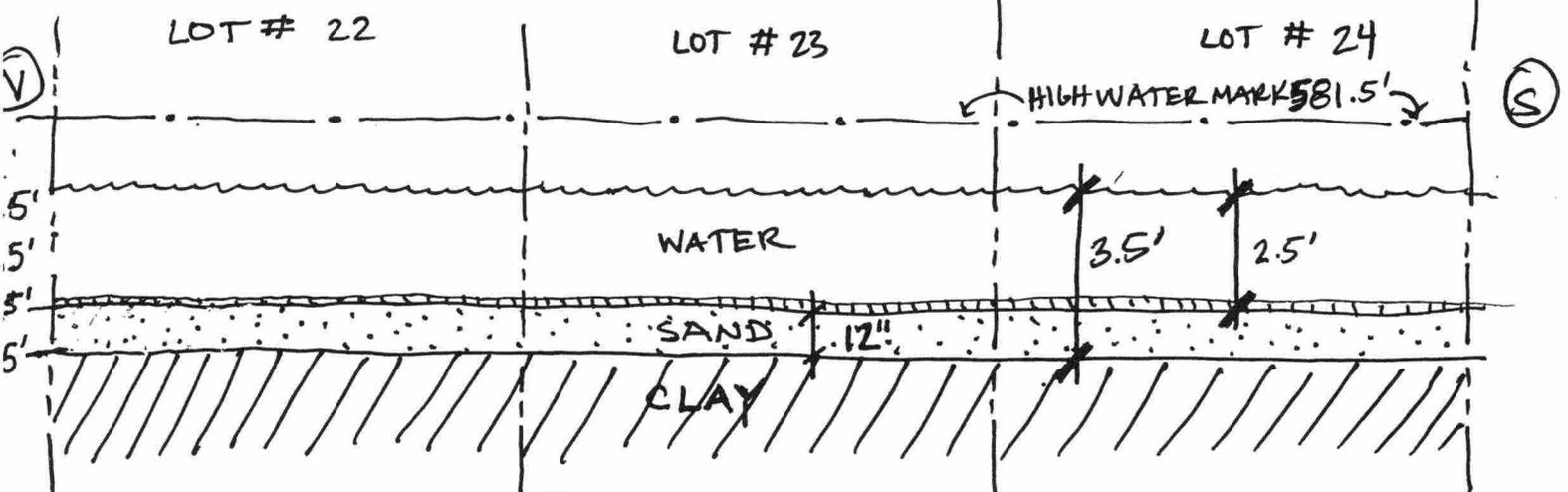
LOT #29

LOT #48

(N)



# ELEVATION VIEW C



VERTICAL SCALE  $\square = 1'$

HORIZONTAL SCALE  $\square = 10'$