



# Public Notice

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U.S. Army Corps  
of Engineers  
Buffalo District  
CELRB-TD-R

Applicant: Town of Greece    Published: May 13, 2015  
Expires: June 13, 2015

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Application No: 2015-00095  
Section: New York

All written comments should reference the above Application No. and be addressed to:  
US Army Corps of Engineers, Buffalo District  
Attn: Kathleen Buckler  
1776 Niagara Street  
Buffalo, NY 14207

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**THE PURPOSE OF THIS PUBLIC NOTICE IS TO SOLICIT COMMENTS FROM THE PUBLIC REGARDING THE WORK DESCRIBED BELOW. NO DECISION HAS BEEN MADE AS TO WHETHER OR NOT A PERMIT WILL BE ISSUED AT THIS TIME.**

**Application for Permit under Authority of  
Section 10 of the Rivers and Harbors Act of 1899 and  
Section 404 of the Clean Water Act (33 U.S.C. 1344).**

APPLICANT: Town of Greece, One Vince Tofany Boulevard, Greece, NY 14612

WATERWAY & LOCATION: Braddock Bay, Town of Greece, Monroe County, New York

LATITUDE & LONGITUDE: Latitude North: 43.31237  
Longitude West: -77.70946

EXISTING CONDITIONS: The proposed project encompasses an area measuring approximately 340 acres. The project area includes an open embayment (Braddock Bay) and unnamed coastal wetlands. The embayment is mostly shallow, turbid open water. Submerged aquatic vegetation beds are present in areas protected from wave energy, in the mouths of the tributaries, and in areas close to shore. Most of the submerged aquatic vegetation communities are dominated by the invasive species Eurasian milfoil. The coastal wetlands are dominated by monotypic cattail stands and are actively eroding due to wave action. The existing conditions are considered to be degraded due to the gradual erosion and loss of an historical barrier beach.

PROPOSED WORK: The project involves the construction of a 1,695-linear foot (LF) long

rubblemound breakwater spine extending from south to north across the mouth of Braddock Bay. This structure will include a 1,000-LF headland beach, two 150-LF rubblemound breakwaters, and two 180-LF terminal groins. The headland beach will be filled using a combination of locally borrowed sand from the bay mouth, and courser sand that will be trucked in. The structure will serve to reduce wave action against the remaining coastal wetlands, and will facilitate the restoration of Braddock Bay's remaining coastal wetlands.

The proposal also involves the restoration of about 8.89 acres of wetlands through the excavation of channels and potholes and 4.25 acres through mechanical and chemical treatment of invasive species (primarily cattail). Excavated material will be sidecast to provide topographic heterogeneity. The project also involves the restoration of 3 acres of eroded wetland through placement of dredged material that will be taken from the mouth of Braddock Bay.

Specific project features include:

- Excavate 11,723 linear feet of channels about eight feet wide by three feet deep
- Excavate 6.7 acres of potholes 0.1 to 2.0 acres in size and variable depths
- Chemical and mechanical treatment of 4.25 acres of emergent marsh to reduce cattail cover
- Restore 3 acres of emergent marsh through placement of dredged material

Quantities of fill:

- Bedding Stone: 7,275 cu. yds.
- Armor Stone: 19,585 cu. yds.
- Beachfill (local dredge material): 12,700 cu. yds
- Beachfill (Purchased sand): 14,100 cu. yds.
- Low stone sill: 1,931 cu. yds.
- Emergent Wetland fill (local dredged material): 20,000 cu. yds

Quantities of material dredged from Braddock Bay mouth:

- Borrow area: 32,700 cu. yds.

## PROJECT PURPOSE

Basic: Wetland habitat restoration and erosion protection

Overall: Protect the Braddock Bay wetland from erosion and restore wetland habitat to improve the suitability for fish and wildlife including northern pike, American mink, and the state listed black tern.

Water Dependency Determination: The basic purpose of the proposed project is to restore wetland and aquatic habitat, and the activity is associated with a discharge which is proposed for a special aquatic site. Restoring Braddock Bay and its coastal wetlands does require access or proximity to or siting within the special aquatic site in question to fulfill its basic purpose; therefore, the project is water dependent.

AVOIDANCE AND MINIMIZATION INFORMATION: Outlined below are the alternatives that were considered and rejected:

- Alternative 1: High crested breakwater: rejected due to unsightliness and unsuitability for vegetation plantings.
- Alternative 2: Floating breakwaters: rejected due to ineffectiveness at reducing wave energy.
- Alternative 3: Soft shorelining updrift of Braddock Bay: cost prohibitive.

- Alternative 4: Wetland restoration work only: rejected because it does not meet project objective of protecting wetlands from wave erosion.
- Alternative 5: Barrier only alternatives: rejected because of fewer habitat improvement benefits and not cost effective if implemented alone.
- Alternative 6: Continuous breakwater across Braddock Bay: rejected for potential worsening of eutrophication in the Bay.
- Alternative 7: Detached (segmented) breakwaters: rejected due to reduced erosion protection.
- Alternative 8: Habitat islands: cost prohibitive.
- Alternative 9: Shortened continuous breakwater: rejected because it does not include beach habitat and softer options were preferred.
- Alternative 10: Sand-only barrier beach: Rejected because it would erode quickly and negatively affect navigation.

Design Modifications Considered:

- Modification 1: Barrier from the north spit: rejected because the coastal wetland would be left unprotected from wave action, and it may increase sedimentation of the Bay.
- Modification 2: Barrier moved closer to wetland edge: Does not provide benefits associated with increasing submerged aquatic vegetation diversity and extent. Also, constructing a structure closer to shore would be more expensive due to unconsolidated sediments and lower geotechnical stability.

PROPOSED MITIGATION: The project as described is intended to enhance the functions and services of an existing wetland and open water habitat and protects and preserves about 340 acres of Lake Ontario coastal wetland; therefore, the project does not require additional mitigation.

Location and details of the above described work are shown on the attached maps and drawings.

Comments or questions pertaining to the work described in this notice should reference the Application Number and be directed to the attention of Kathleen Buckler, who can be contacted at the above address, by calling 716-879-4303, or by e-mail at: Kathleen.a.buckler@usace.army.mil. A lack of response will be interpreted as meaning that there is no objection to the work as proposed.

The applicant has certified that the proposed activity complies with New York's approved Coastal Zone Management Program and will be conducted in a manner consistent with that program. Any comments on the consistency of the proposed activity with New York State's Coastal Zone Management Program should be forwarded to:

New York Department of State  
 Division of Coastal Resources  
 Coastal Management Program  
 One Commerce Plaza  
 99 Washington Avenue  
 Albany, NY 12231  
 Attn: Consistency Review

Telephone (518) 486-3200

The following authorization is required for this project:

Water Quality Certification (or waiver thereof) from the New York State Department of Environmental Conservation.

The project permit area, as shown on Sheet 1 of 8, does not appear to be located within an archaeologically sensitive area as identified by the New York State Office of Parks, Recreation and Historic Preservation (NYSOPRHP) or properties listed in, or eligible for listing in, the National Register of Historic Places based on preliminary findings. This notice constitutes initiation of consultation with the New York State Office of Parks, Recreation and Historic Preservation (NYSOPRHP) per Section 106 of the National Historic Preservation Act. All currently available historic resource information pertaining to this proposed project if any has been provided to the NYSOPRHP. Additional information concerning historic properties should be submitted to the Corps before the end of the comment period of this notice. The Corps will forward that information to the NYSOPRHP for their review.

Pursuant to Section 7 of the Endangered Species Act (16 U.S.C. 1531), the Corps of Engineers is consulting, under separate cover, with the USFWS to evaluate any potential impacts to: Bog turtle (*Clemmys muhlenbergii* – threatened) and to Northern long-eared bat (*Myotis septentrionalis* – threatened) and to ensure that the proposed activity is not likely to jeopardize their continued existence or result in the destruction or adverse modification of critical habitat.

Comments submitted in response to this notice will be fully considered during the public interest review for this permit application. All written comments will be made a part of the administrative record which is available to the public under the Freedom of Information Act. The Administrative Record, or portions thereof, may also be posted on a Corps of Engineers internet web site. Due to resource limitations, this office will normally not acknowledge the receipt of comments or respond to individual letters of comment.

Any individual may request a public hearing by submitting their written request, stating the specific reasons for holding a hearing, in the same manner and time period as other comments.

Public hearings for the purposes of the Corps permit program will be held when the District Commander determines he can obtain additional information, not available in written comments, that will aid him in the decision making process for this application. A Corps hearing is not a source of information for the general public, nor a forum for the resolution of issues or conflicting points of view (witnesses are not sworn and cross examination is prohibited). Hearings will not be held to obtain information on issues unrelated to the work requiring a permit, such as property ownership, neighbor disputes, or the behavior or actions of the public or applicant on upland property not regulated by the Department of the Army. Information obtained from a public hearing is given no greater weight than that obtained from written comments. Therefore, you should not fail to make timely written comments because a hearing might be held.

The decision to approve or deny this permit request will be based on an evaluation of the 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 benefits 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 these are conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, flood plain 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.

**SIGNED**

Diane C. Kozlowski  
Chief, Regulatory Branch

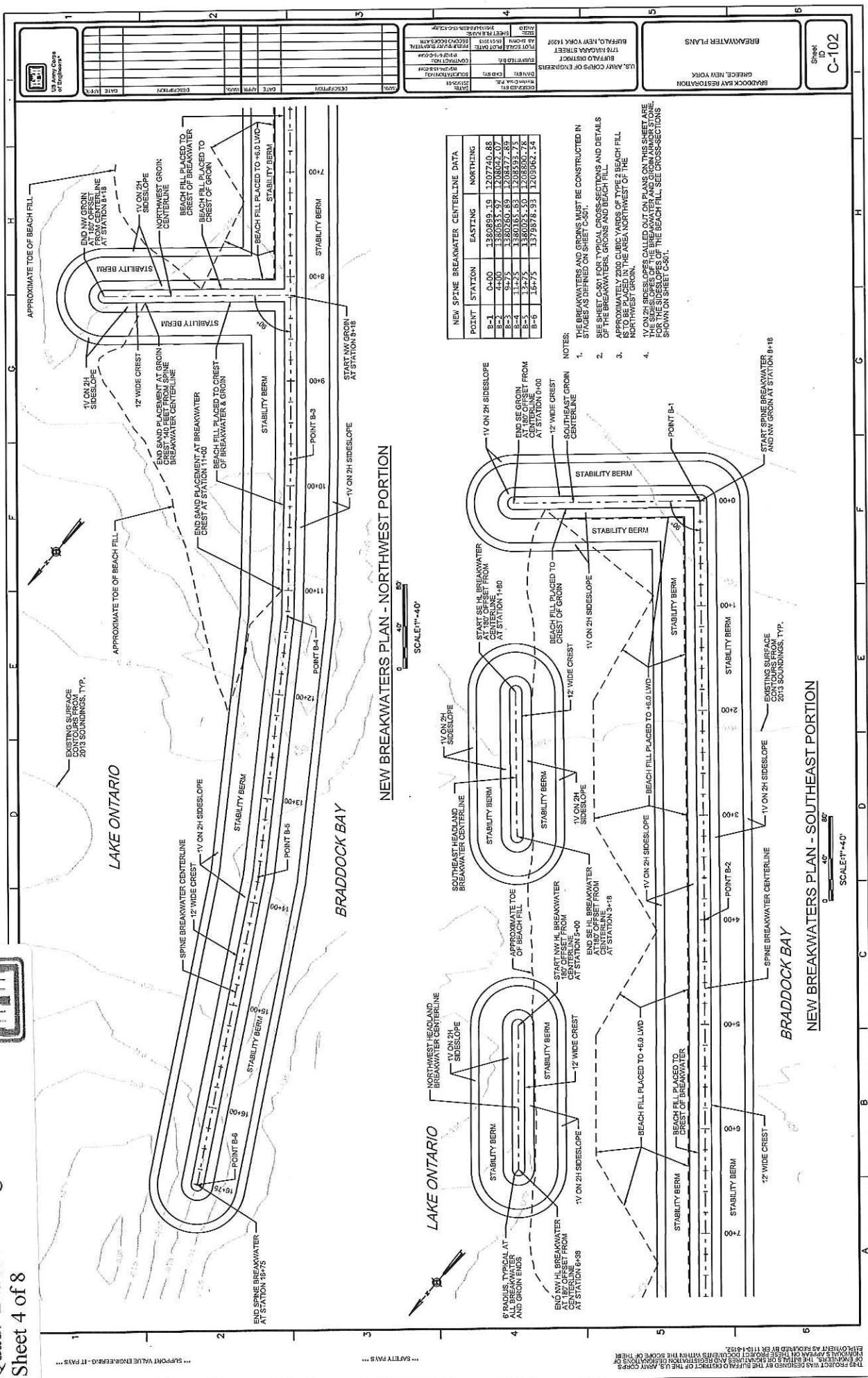
NOTICE TO POSTMASTER: It is requested that this notice be posted continuously and conspicuously for 30 days from the date of issuance.











POINT	STATION	EASTING	NORTHING
B-1	0+00	1380899.39	1207740.88
B-2	9+75	1380260.59	1208377.53
B-3	11+25	1380164.83	1208593.75
B-4	13+75	1380074.50	1208800.78
B-5	15+75	1379876.33	1209062.54

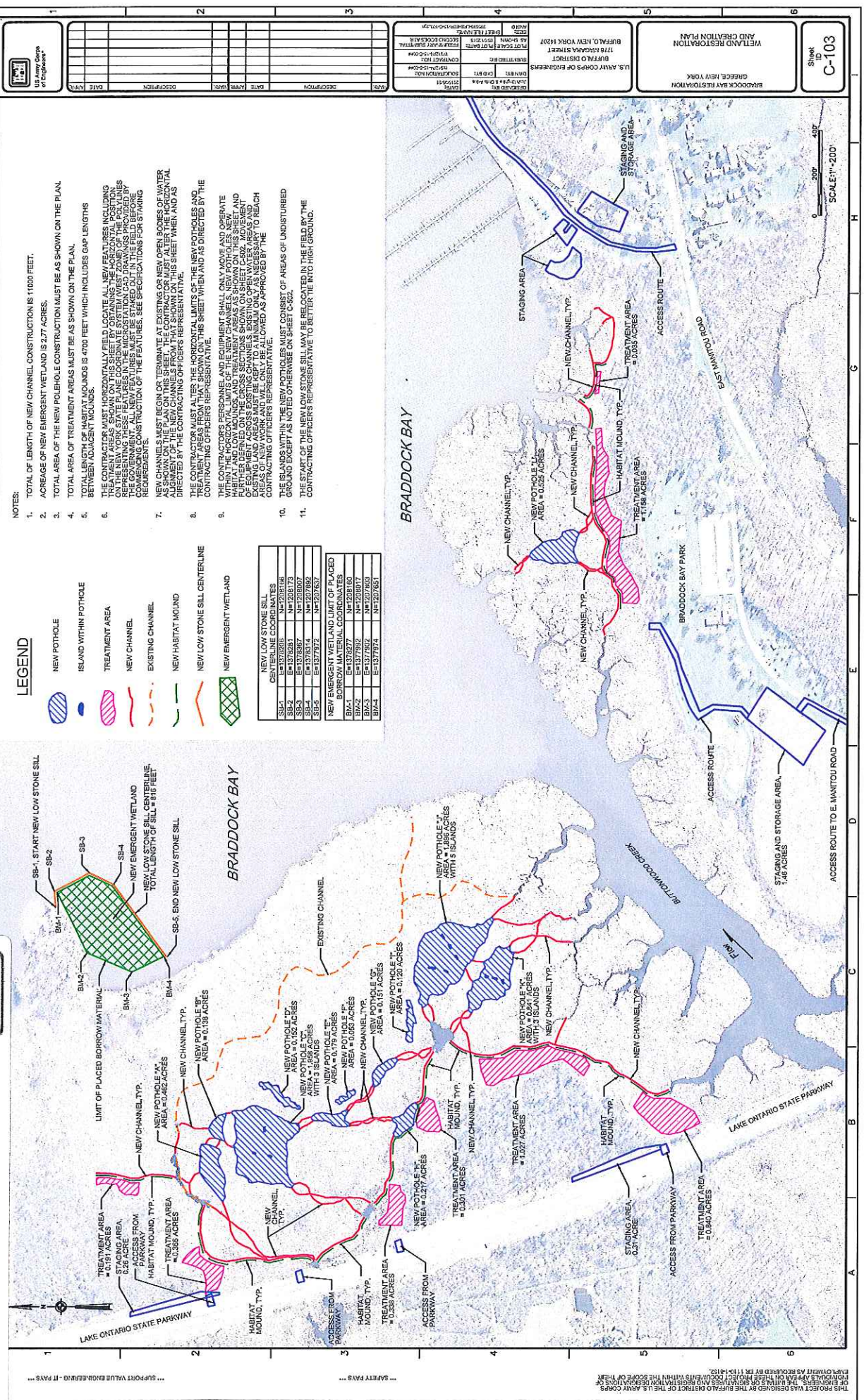
- NOTES:
1. THE BREAKWATERS AND GROINS MUST BE CONSTRUCTED IN ACCORDANCE WITH THE SPECIFICATIONS AND DETAILS OF THE BREAKWATERS, GROINS AND BEACH FILL.
  2. APPROXIMATELY 2000 CUBIC YARDS OF TYPE 2 BEACH FILL IS TO BE PLACED IN THE AREA NORTHWEST OF THE NORTHWEST GROIN.
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  4. 1V ON 2H SIDESLOPES OF BEACH FILL ARE TO BE PLACED ON THE SIDESLOPES OF THE BEACH FILL. SEE CROSS-SECTIONS SHOWN ON SHEET C-901.

US Army Corps of Engineers  
 BRADDOCK BAY RESTORATION  
 GREECE, NEW YORK

BRADDOCK BAY RESTORATION  
 GREECE, NEW YORK

Sheet ID  
**C-102**

THIS PROJECT WAS DESIGNED BY THE BUFFALO DISTRICT OF THE U.S. ARMY CORPS OF ENGINEERS. THE DESIGN AND CONSTRUCTION OF THIS PROJECT IS THE RESPONSIBILITY OF THE DESIGNER. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.



- NOTES:**
- TOTAL LENGTH OF NEW CHANNEL CONSTRUCTION IS 11000 FEET.
  - ACREAGE OF NEW EMERGENT WETLAND IS 2.77 ACRES.
  - TOTAL AREA OF THE NEW POT-HOLE CONSTRUCTION MUST BE AS SHOWN ON THE PLAN.
  - TOTAL AREA OF TREATMENT AREAS MUST BE AS SHOWN ON THE PLAN.
  - BETWEEN POT-HOLE TREATMENT AREAS IS 4700 FEET WHICH INCLUDES GAP LENGTHS BETWEEN POT-HOLE TREATMENT AREAS.
  - THE CONTRACTOR MUST HORIZONTALLY LOCATE ALL NEW TREATMENT AREAS INCLUDING TREATMENT AREAS SHOWN ON THIS SHEET BY OBTAINING THE HORIZONTAL POSITION REPRESENTING THESE FEATURES ON THE GROUND. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE HORIZONTAL POSITION REPRESENTING THESE FEATURES ON THE GROUND. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE HORIZONTAL POSITION REPRESENTING THESE FEATURES ON THE GROUND. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE HORIZONTAL POSITION REPRESENTING THESE FEATURES ON THE GROUND. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE HORIZONTAL POSITION REPRESENTING THESE FEATURES ON THE GROUND.
  - NEW CHANNELS MUST BEGUN OR TERMINATE AT EXISTING OR NEW OPEN BODIES OF WATER AS SHOWN ON THE PLAN ON THIS SHEET. THE CONTRACTOR MUST ALTER THE HORIZONTAL POSITION OF NEW CHANNELS FROM THAT SHOWN ON THIS SHEET WHEN AND AS DIRECTED BY THE CONTRACTING OFFICERS REPRESENTATIVE.
  - THE CONTRACTOR SHALL ALTER THE HORIZONTAL LIMITS OF THE NEW POT-HOLES AND TREATMENT AREAS FROM THAT SHOWN ON THIS SHEET WHEN AND AS DIRECTED BY THE CONTRACTING OFFICERS REPRESENTATIVE.
  - THE CONTRACTOR SHALL ONLY MOVE AND OPERATE HABITAT MOUNDS AND TREATMENT AREAS AS SHOWN ON THIS SHEET AND SHALL NOT BE RESPONSIBLE FOR OBTAINING THE HORIZONTAL POSITION REPRESENTING THESE FEATURES ON THE GROUND. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE HORIZONTAL POSITION REPRESENTING THESE FEATURES ON THE GROUND. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE HORIZONTAL POSITION REPRESENTING THESE FEATURES ON THE GROUND. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE HORIZONTAL POSITION REPRESENTING THESE FEATURES ON THE GROUND.
  - THE ISLANDS WITHIN THE NEW POT-HOLES MUST CONSIST OF AREAS OF UNDISTURBED GROUND EXCEPT AS NOTED OTHERWISE ON SHEET C-562.
  - CONTRACTING OFFICERS REPRESENTATIVE TO BETTER FIT INTO HIGH GROUND.

**LEGEND**

- NEW POT-HOLE
- ISLAND WITHIN POT-HOLE
- TREATMENT AREA
- NEW CHANNEL
- EXISTING CHANNEL
- NEW HABITAT MOUND
- NEW LOW STONE SILL CENTERLINE
- NEW EMERGENT WETLAND

NEW LOW STONE SILL CENTERLINE COORDINATES	NEW EMERGENT WETLAND AND LIMIT OF PLACED BORROW MATERIAL COORDINATES
SB-1 E=1276286 N=1208186	BM-1 E=1276287 N=1208187
SB-2 E=1276281 N=1208173	BM-2 E=1276282 N=1208160
SB-3 E=1276287 N=1208207	BM-3 E=1276282 N=1207959
SB-4 E=1276272 N=1207832	BM-4 E=1276274 N=1207831

BRADDOCK BAY RESTORATION AND CREATION PLAN  
 GREECE, NEW YORK  
 U.S. ARMY CORPS OF ENGINEERS  
 BUFFALO DISTRICT  
 BUFFALO, NEW YORK 14207  
 SHEET NO. C-103

DATE: 12/15/15  
 DRAWN BY: J. M. ...  
 CHECKED BY: ...  
 SCALE: 1" = 200'

PROJECT WAS DESIGNED BY THE BUFFALO DISTRICT OF THE U.S. ARMY CORPS OF ENGINEERS AND THE TOWN OF GREECE, NEW YORK. THE TOWN OF GREECE, NEW YORK IS RESPONSIBLE FOR OBTAINING THE HORIZONTAL POSITION REPRESENTING THESE FEATURES ON THE GROUND.



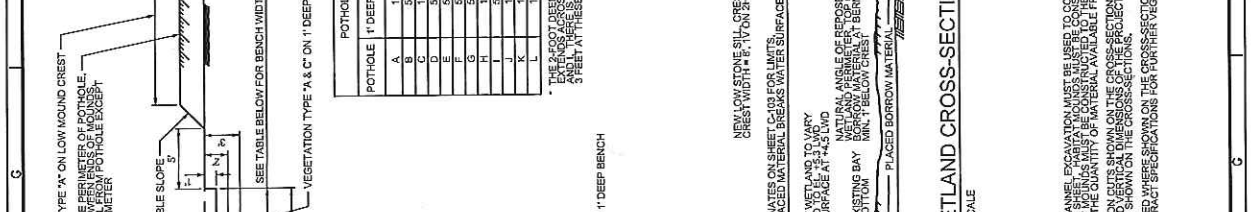


	<b>BRADDOCK BAY RESTORATION</b> GREECE, NEW YORK	<b>WETLAND CROSS-SECTIONS &amp; DETAILS</b>	Sheet <b>C-502</b>
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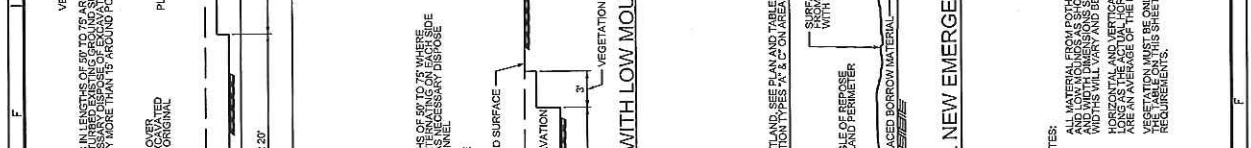
DATE	DESCRIPTION	DATE	DESCRIPTION

U.S. ARMY CORPS OF ENGINEERS  
 BUFFALO DISTRICT  
 178 MADAVA STREET  
 BUFFALO, NEW YORK 14207

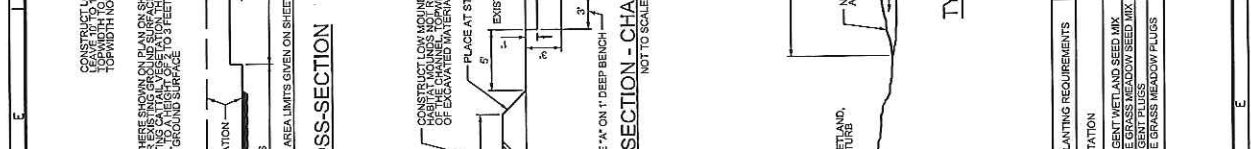
DATE: 12/15/14  
 DRAWN BY: J. COOPER  
 CHECKED BY: J. COOPER  
 PROJECT NO.: 1110-00095  
 SHEET NO.: C-502



**TYPICAL POTHOLE CROSS-SECTION**  
 NOT TO SCALE



**TYPICAL CROSS-SECTION - CHANNEL WITH LOW MOUND**  
 NOT TO SCALE



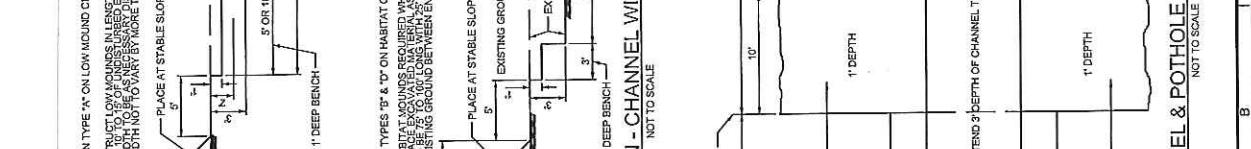
**TYPICAL CROSS-SECTION - CHANNEL WITH HABITAT MOUND**  
 NOT TO SCALE



**TYPICAL NEW EMERGENT WETLAND CROSS-SECTION**  
 NOT TO SCALE



**TYPICAL CHANNEL & POTHOLE INTERSECTION DETAIL**  
 NOT TO SCALE



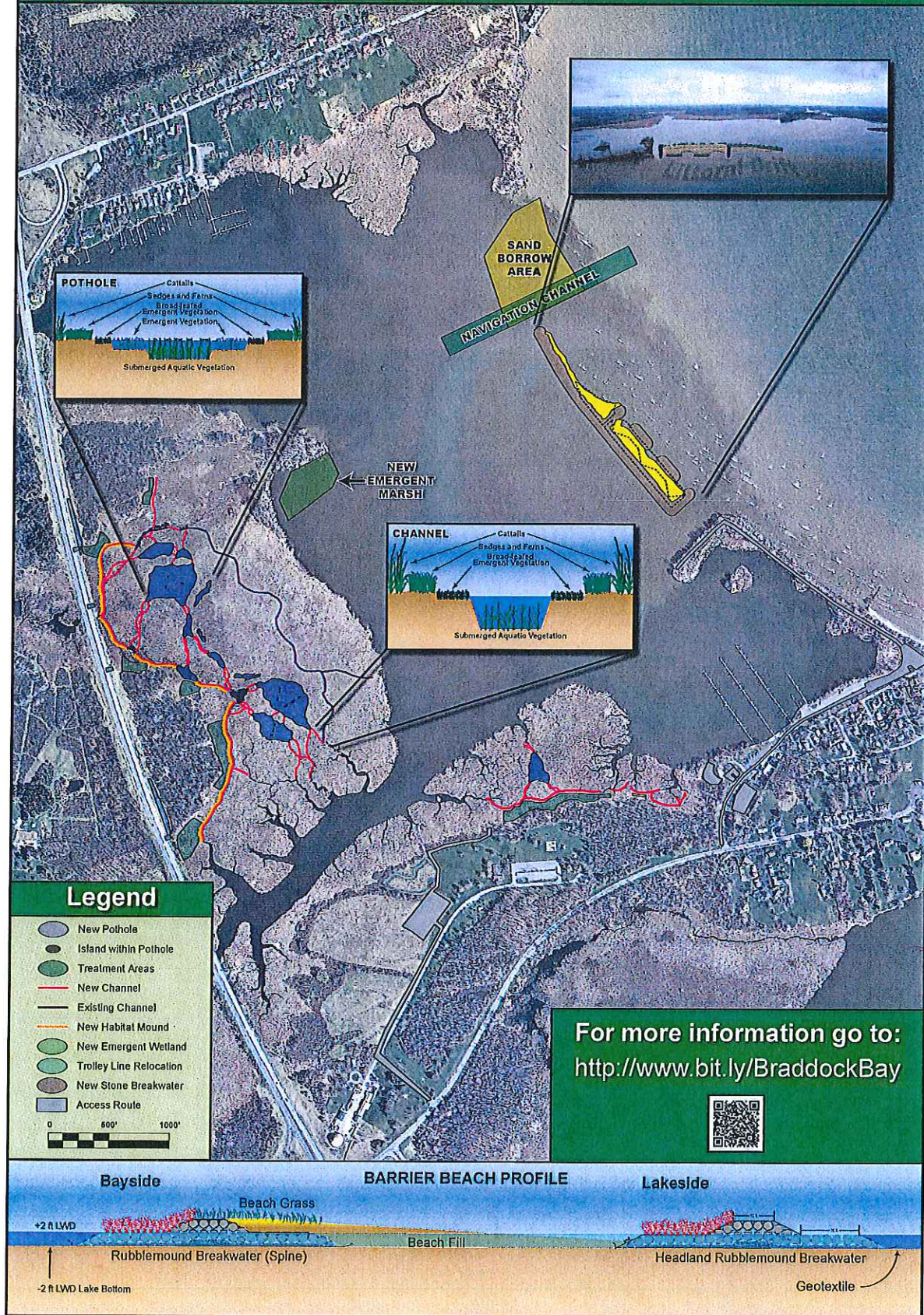
NOTES:  
 1. ALL MATERIAL FROM POTHOLE AND CHANNEL EXCAVATION MUST BE USED TO CONSTRUCT HABITAT MOUNDS AND LOW MOUNDS AS SHOWN ON THIS SHEET. HABITAT MOUNDS MUST BE CONSTRUCTED TO THE SAME HEIGHT AND THIS WILL VARY AND BE BASED ON THE QUANTITY OF MATERIAL AVAILABLE FROM EXCAVATION AREAS.  
 2. HORIZONTAL AND VERTICAL EXCAVATION CUTS SHOWN ON THE CROSS-SECTIONS MAY BE IRREGULAR AS ARE AVERAGE OF THE DIMENSIONS SHOWN ON THE CROSS-SECTIONS.  
 3. VEGETATION MUST BE ONLY BE PLANTED WHERE SHOWN ON THE CROSS-SECTIONS AND AS DEFINED ON THE REQUIREMENTS.



**CHANNEL/POTHOLE LIMIT FOR PAYMENT PURPOSES**

THIS PROJECT WAS DESIGNED BY THE U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT OF THE U.S. ARMY CORPS OF ENGINEERS, BUFFALO, NEW YORK. THE PROJECT NO. IS 1110-00095. THE SHEET NO. IS C-502. THE DATE OF DESIGN IS 12/15/14. THE DATE OF PLOTTING IS 12/15/14. THE PROJECT LOCATION IS BRADDOCK BAY RESTORATION, GREECE, NEW YORK.

# Braddock Bay Ecosystem Restoration Final Design



For more information go to:  
<http://www.bit.ly/BraddockBay>



Town of Greece  
 D/A Processing No. 2015-00095  
 Monroe County, New York  
 Quad: Braddock Heights  
 Sheet 8 of 8

