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A3.01	ROWING CENTER & SAILING CLUB BUILDING ELEVATION

PREPARED BY:



PROJECT TITLE:

WILLIAMS WHARF  
LANDING

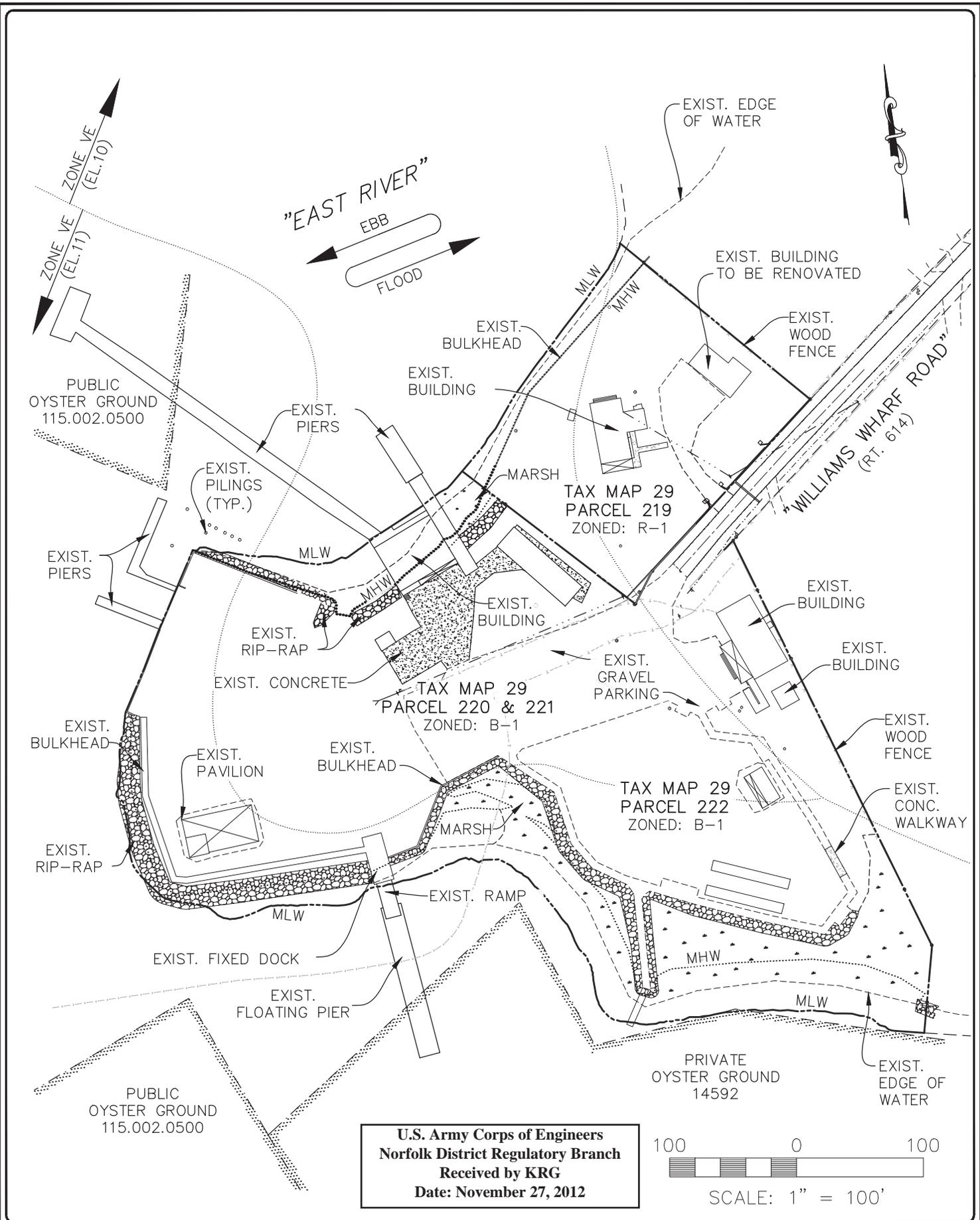
PREPARED FOR:

MATHEWS LAND CONSERVANCY  
 1039 WILLIAMS WHARF ROAD  
 P.O. BOX 306  
 MATHEWS, VA 23109

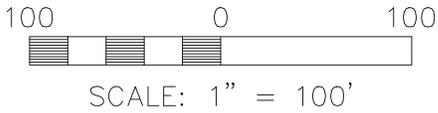
DRAWING TITLE:

COVER

SCALE:	N.T.S.	SHEET #: <b>01</b>
DATE:	10/02/12 Rev. 11/21/12	
DRAWN BY:	J.J. WADE	
PROJECT #:	08043	



**U.S. Army Corps of Engineers**  
**Norfolk District Regulatory Branch**  
**Received by KRG**  
**Date: November 27, 2012**



PREPARED BY:  
**BEARING POINT**

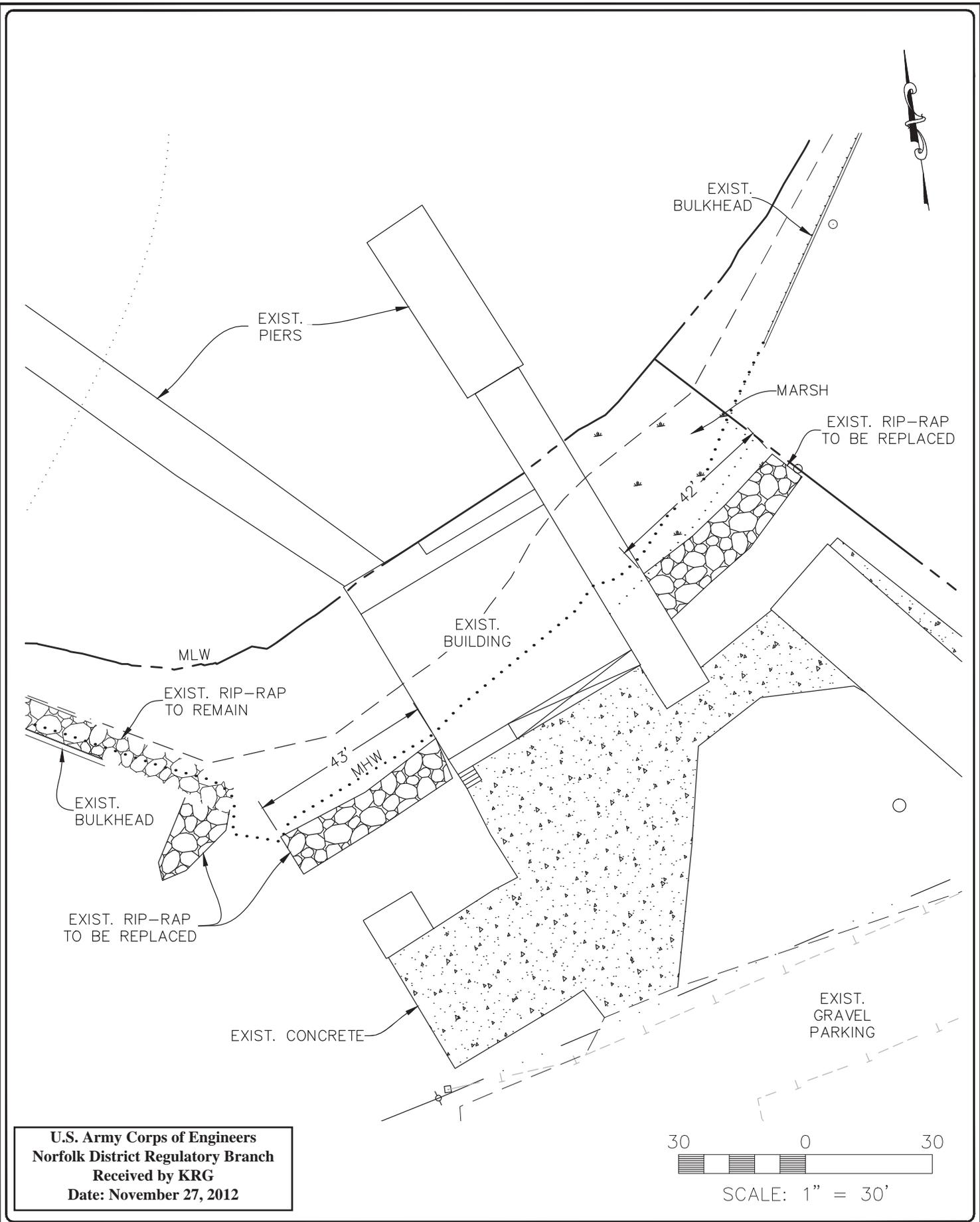
PROJECT TITLE:  
 WILLIAMS WHARF LANDING

PREPARED FOR:  
 MATHEWS LAND CONSERVANCY  
 1039 WILLIAMS WHARF ROAD  
 P.O. BOX 306  
 MATHEWS, VA 23109

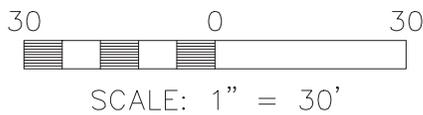
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**EXISTING CONDITIONS**

SCALE: 1" = 100'  
 DATE: 10/02/12  
 Rev. 11/21/12  
 DRAWN BY: J.J. WADE  
 PROJECT #: 08043

SHEET #:  
**02**



U.S. Army Corps of Engineers  
 Norfolk District Regulatory Branch  
 Received by KRG  
 Date: November 27, 2012



PREPARED BY:

PROJECT TITLE:

WILLIAMS WHARF LANDING

PREPARED FOR:

MATHEWS LAND CONSERVANCY  
 1039 WILLIAMS WHARF ROAD  
 P.O. BOX 306  
 MATHEWS, VA 23109

DRAWING TITLE:

EXISTING BULKHEAD & RIP-RAP

SCALE: 1" = 30'

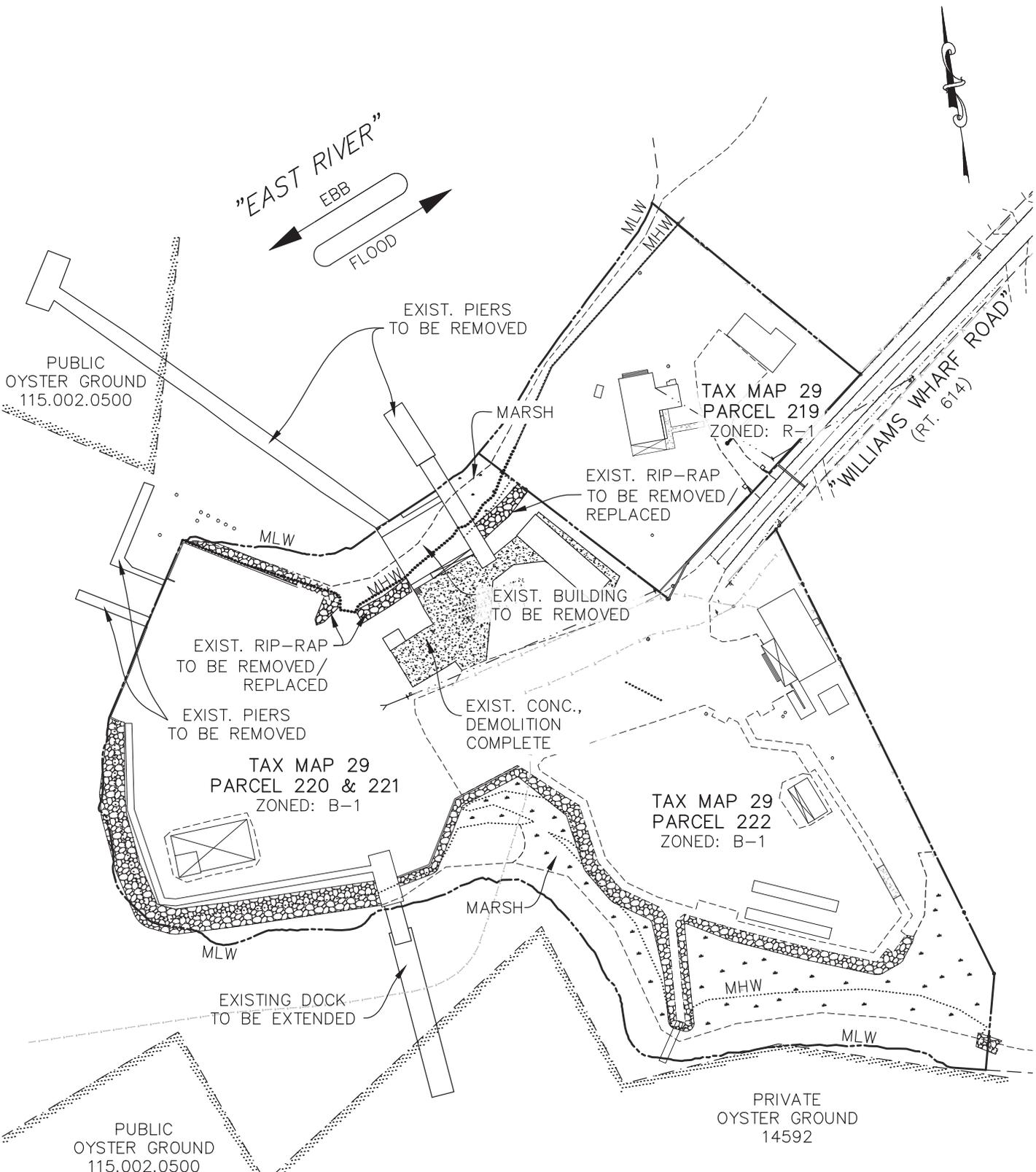
DATE: 10/02/12  
 Rev. 11/21/12

DRAWN BY: J.J. WADE

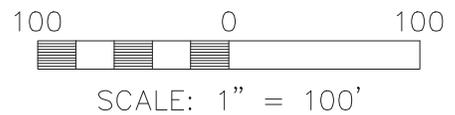
PROJECT #: 08043

SHEET #:

**2A**



**U.S. Army Corps of Engineers**  
**Norfolk District Regulatory Branch**  
 Received by KRG  
 Date: November 27, 2012



PREPARED BY:

PROJECT TITLE:

WILLIAMS WHARF LANDING

PREPARED FOR:

MATHEWS LAND CONSERVANCY  
 1039 WILLIAMS WHARF ROAD  
 P.O. BOX 306  
 MATHEWS, VA 23109

DRAWING TITLE:

**DEMOLITION PLAN**

SCALE: 1" = 100'

DATE: 10/02/12  
 Rev. 11/21/12

DRAWN BY: J.J. WADE

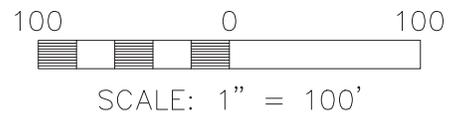
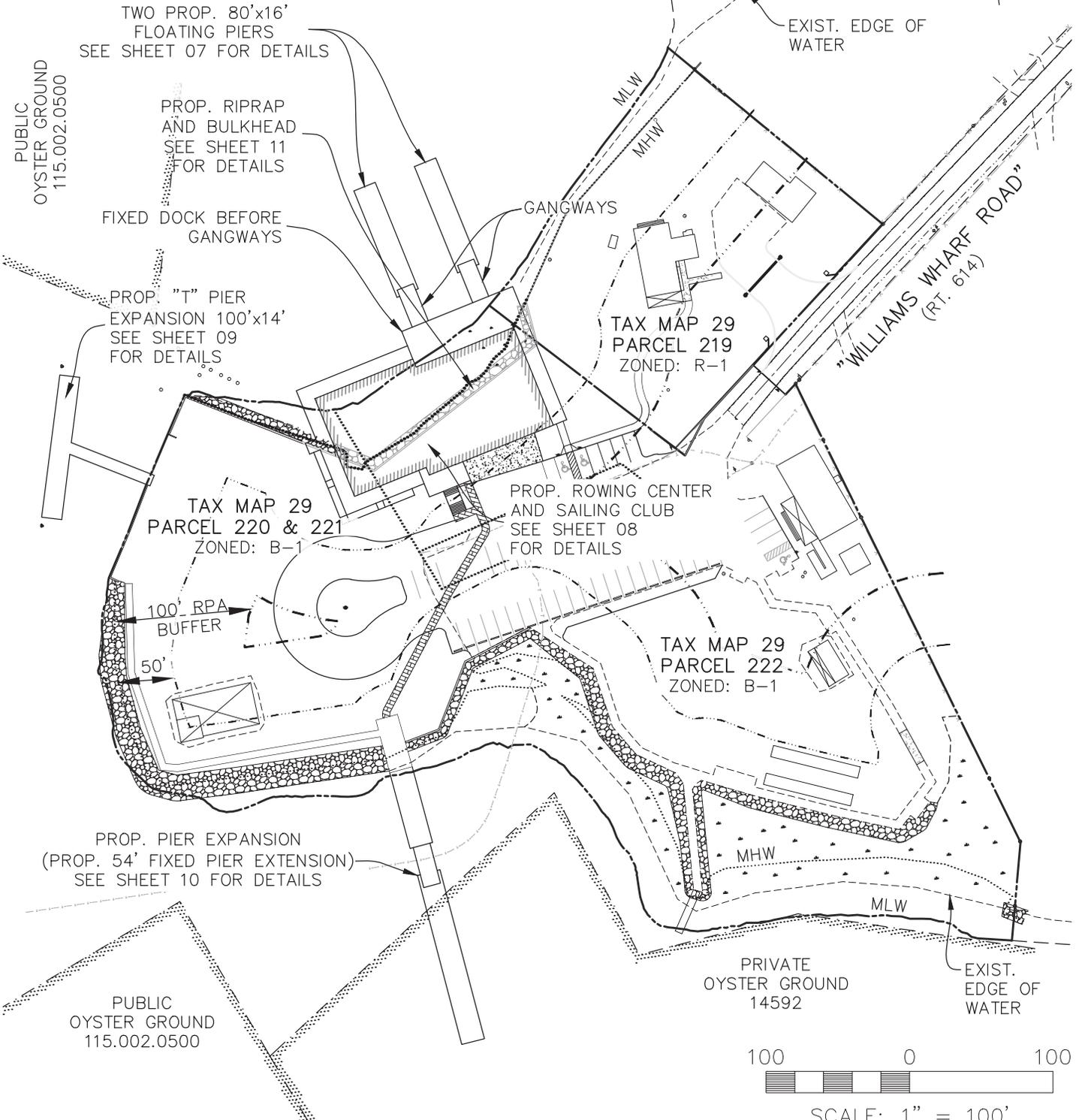
PROJECT #: 08043

SHEET #:

**03**

**U.S. Army Corps of Engineers  
Norfolk District Regulatory Branch  
Received by KRG  
Date: November 27, 2012**

"EAST RIVER"  
EBB  
FLOOD



PREPARED BY:  
**BEARING POINT**

PROJECT TITLE:  
WILLIAMS WHARF LANDING

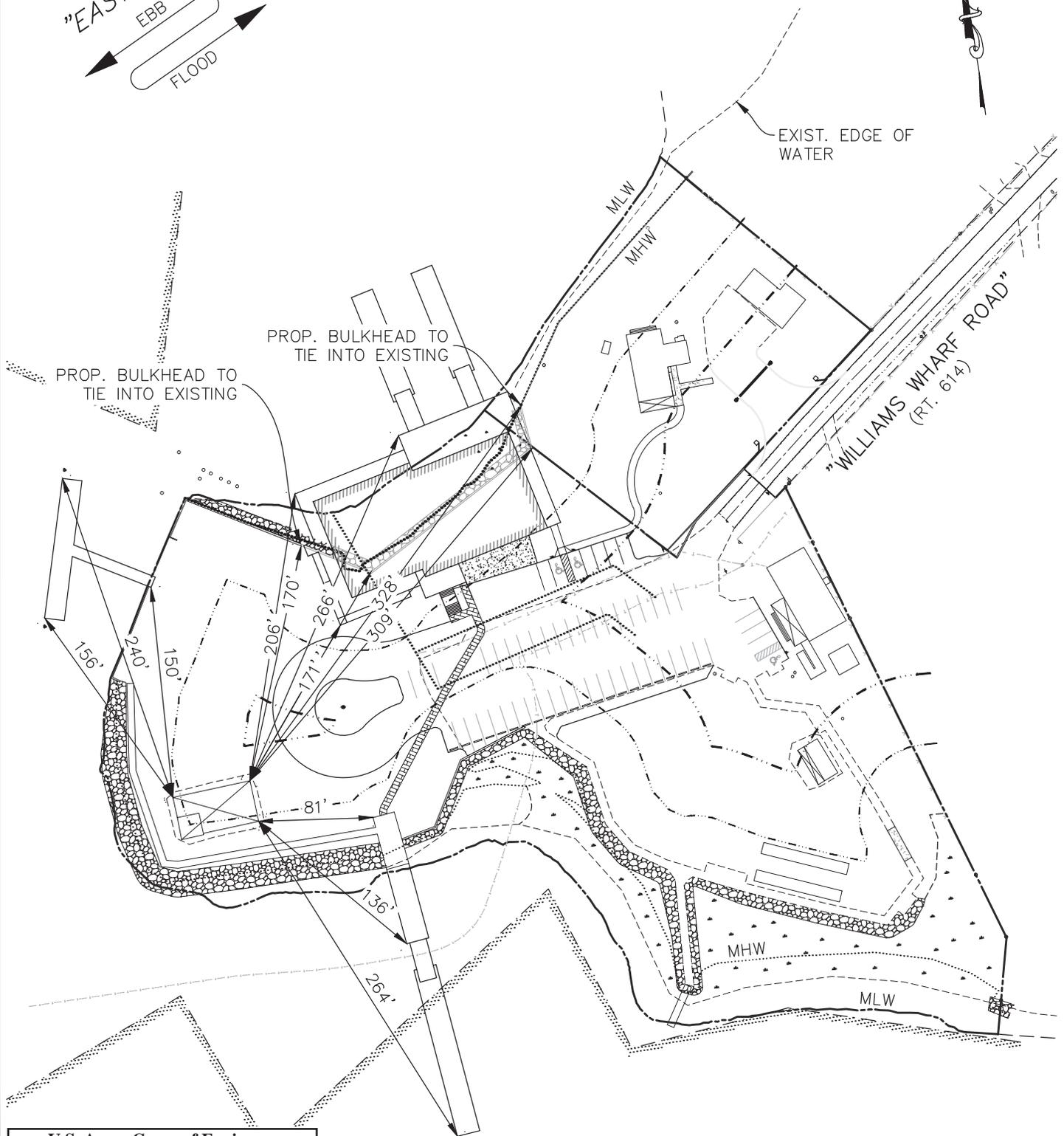
PREPARED FOR:  
MATHEWS LAND CONSERVANCY  
1039 WILLIAMS WHARF ROAD  
P.O. BOX 306  
MATHEWS, VA 23109

DRAWING TITLE:  
**MASTER PLAN**

SCALE: 1" = 100'  
DATE: 10/02/12  
Rev. 11/21/12  
DRAWN BY: J.J. WADE  
PROJECT #: 08043

SHEET #:  
**04**

"EAST RIVER"  
EBB  
FLOOD



U.S. Army Corps of Engineers  
Norfolk District Regulatory Branch  
Received by KRG  
Date: November 27, 2012

100 0 100  
SCALE: 1" = 100'

PREPARED BY:  
**BEARING POINT**

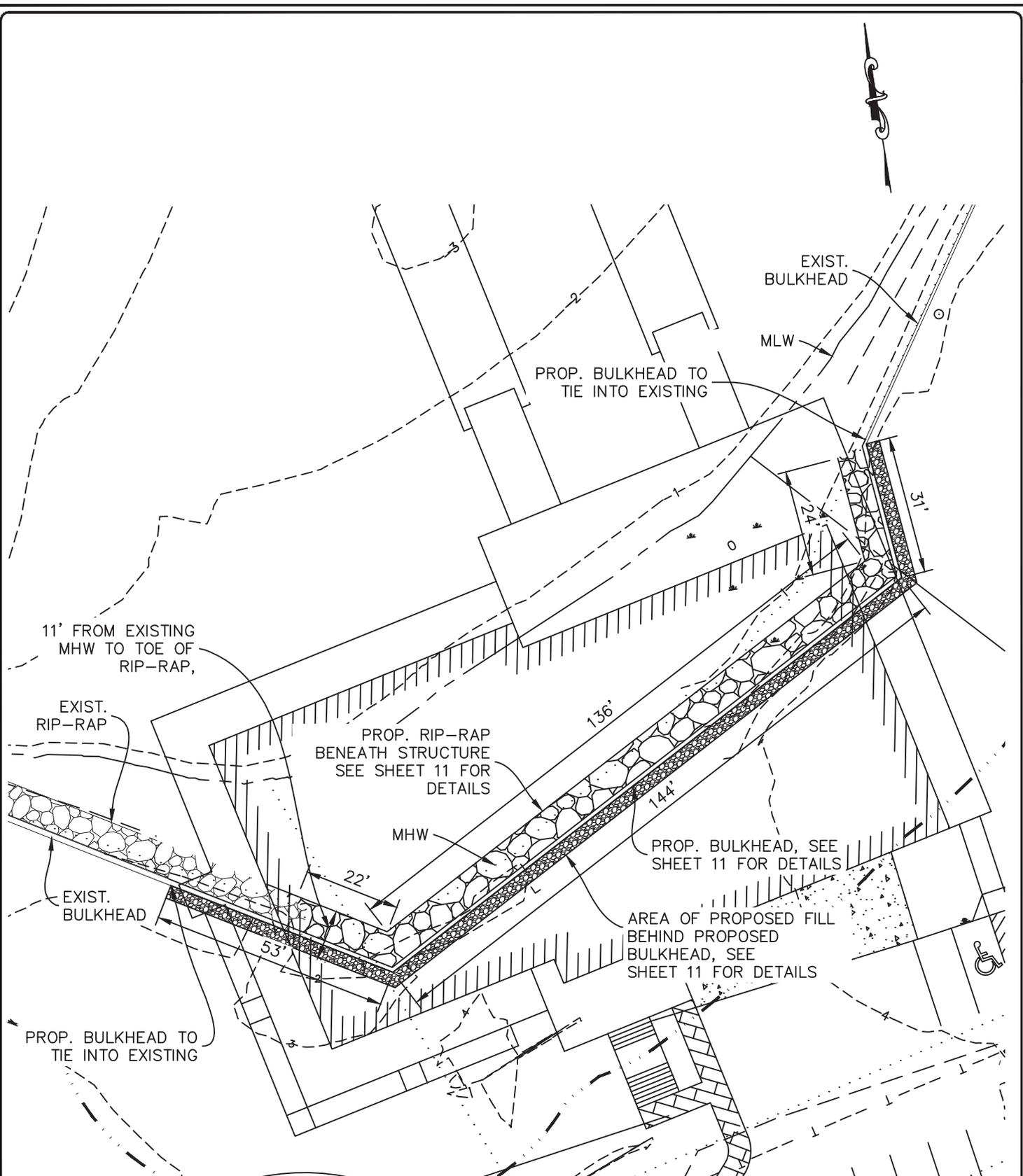
PROJECT TITLE:  
WILLIAMS WHARF LANDING

PREPARED FOR:  
MATHEWS LAND CONSERVANCY  
1039 WILLIAMS WHARF ROAD  
P.O. BOX 306  
MATHEWS, VA 23109

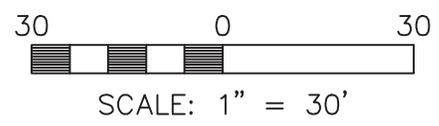
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**DIMENSION PLAN**

SCALE: 1" = 100'  
DATE: 10/02/12  
Rev. 11/21/12  
DRAWN BY: J.J. WADE  
PROJECT #: 08043

SHEET #:  
**4A**



U.S. Army Corps of Engineers  
 Norfolk District Regulatory Branch  
 Received by KRG  
 Date: November 27, 2012



PREPARED BY:  
**BEARING POINT**

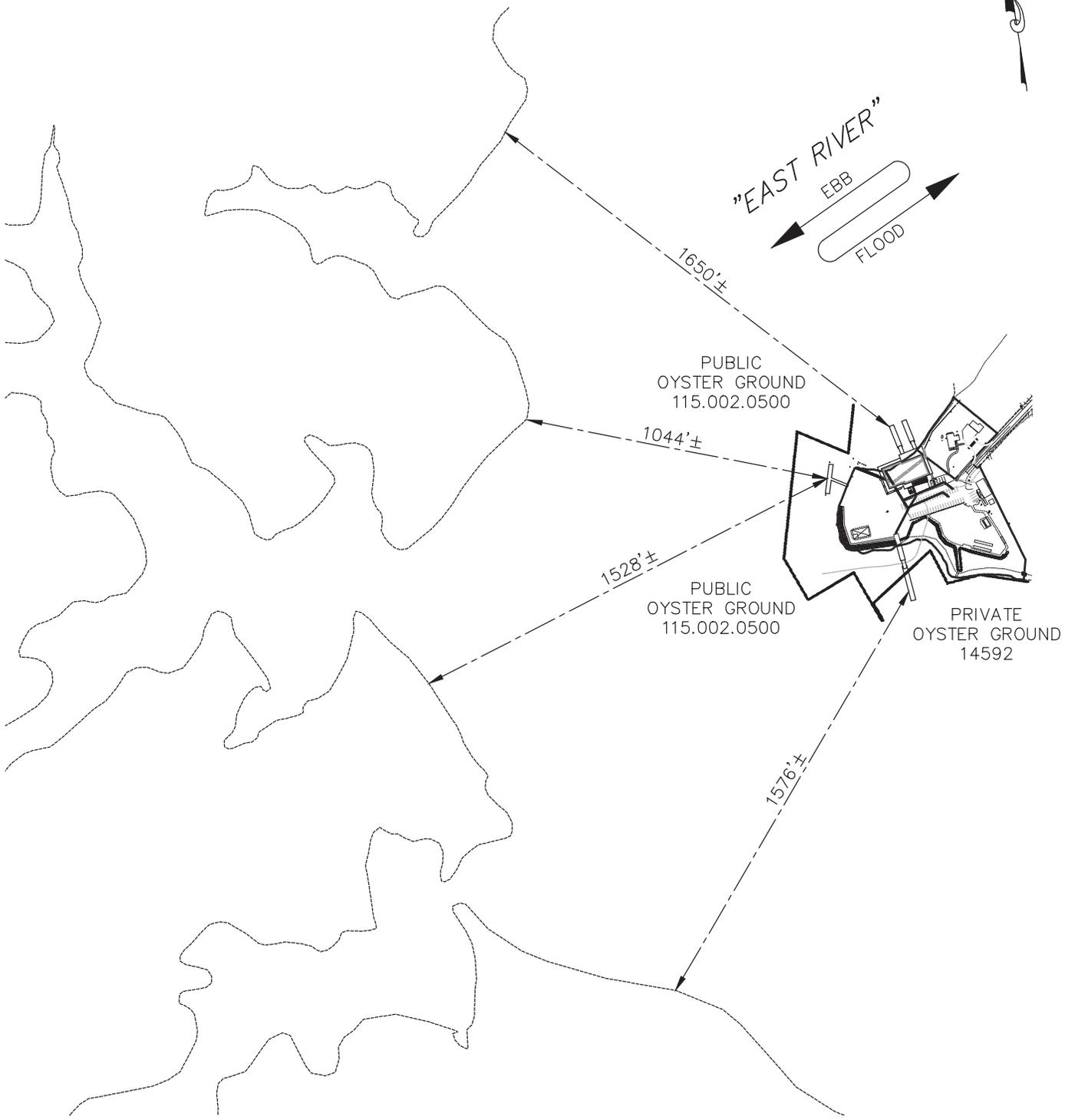
PROJECT TITLE:  
 WILLIAMS WHARF LANDING

PREPARED FOR:  
 MATHEWS LAND CONSERVANCY  
 1039 WILLIAMS WHARF ROAD  
 P.O. BOX 306  
 MATHEWS, VA 23109

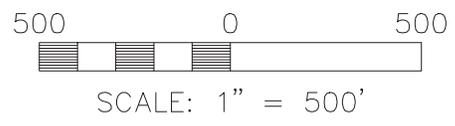
DRAWING TITLE:  
**BULKHEAD & RIP-RAP PLAN**

SCALE: 1" = 30'  
 DATE: 10/02/12  
 Rev. 11/21/12  
 DRAWN BY: J.J. WADE  
 PROJECT #: 08043

SHEET #:  
**4B**



U.S. Army Corps of Engineers  
Norfolk District Regulatory Branch  
Received by KRG  
Date: November 27, 2012



PREPARED BY:  
**BEARING POINT**

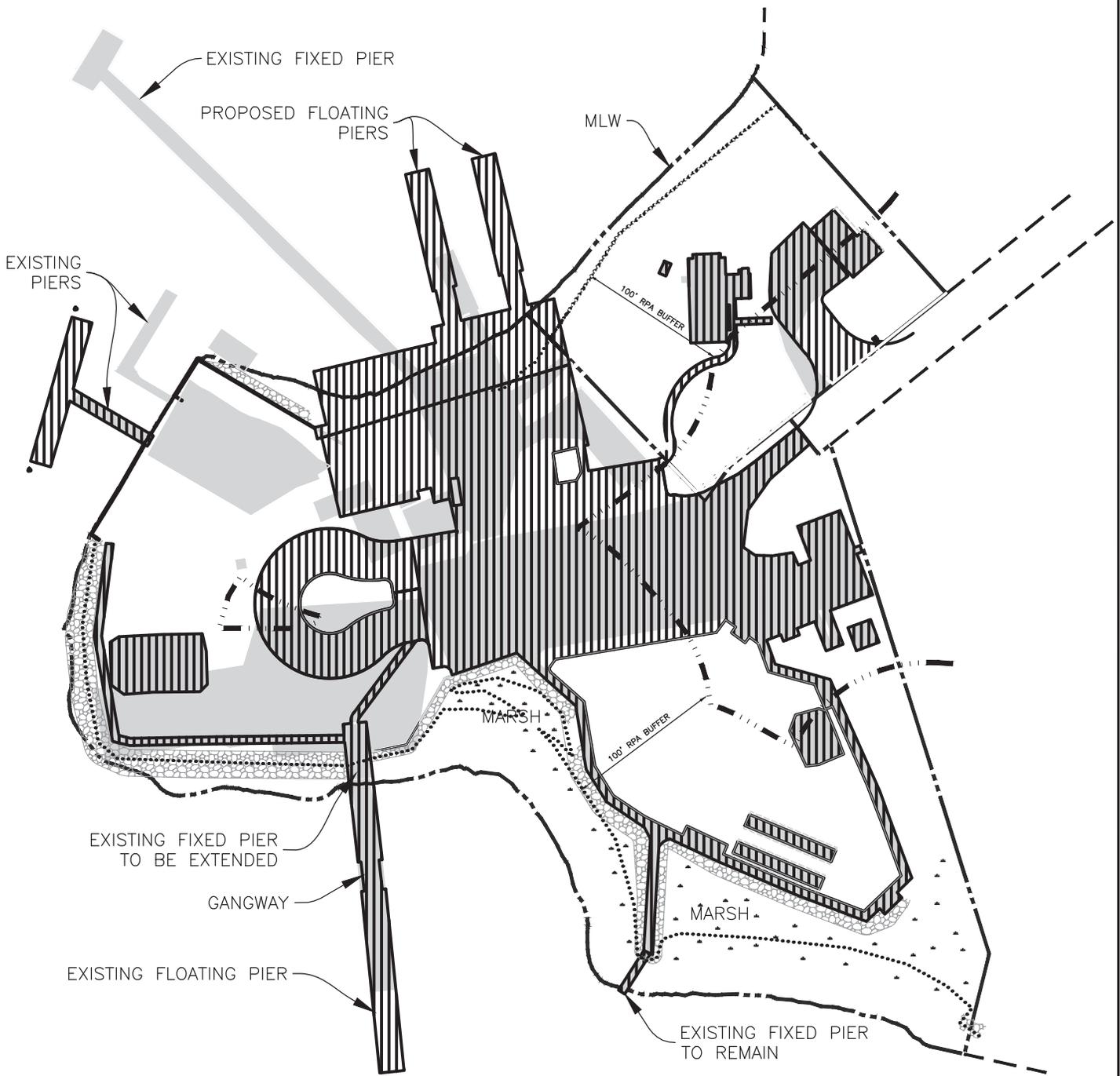
PROJECT TITLE:  
WILLIAMS WHARF  
LANDING

PREPARED FOR:  
MATHEWS LAND CONSERVANCY  
1039 WILLIAMS WHARF ROAD  
P.O. BOX 306  
MATHEWS, VA 23109

DRAWING TITLE:  
**OVERALL PLAN**

SCALE: 1" = 500'  
DATE: 10/02/12  
Rev. 11/21/12  
DRAWN BY: J.J. WADE  
PROJECT #: 08043

SHEET #:  
**05**



 EXISTING IMPERVIOUS AREAS  
 PROPOSED IMPERVIOUS AREAS

**U.S. Army Corps of Engineers**  
**Norfolk District Regulatory Branch**  
**Received by KRG**  
**Date: November 27, 2012**

PREPARED BY:  

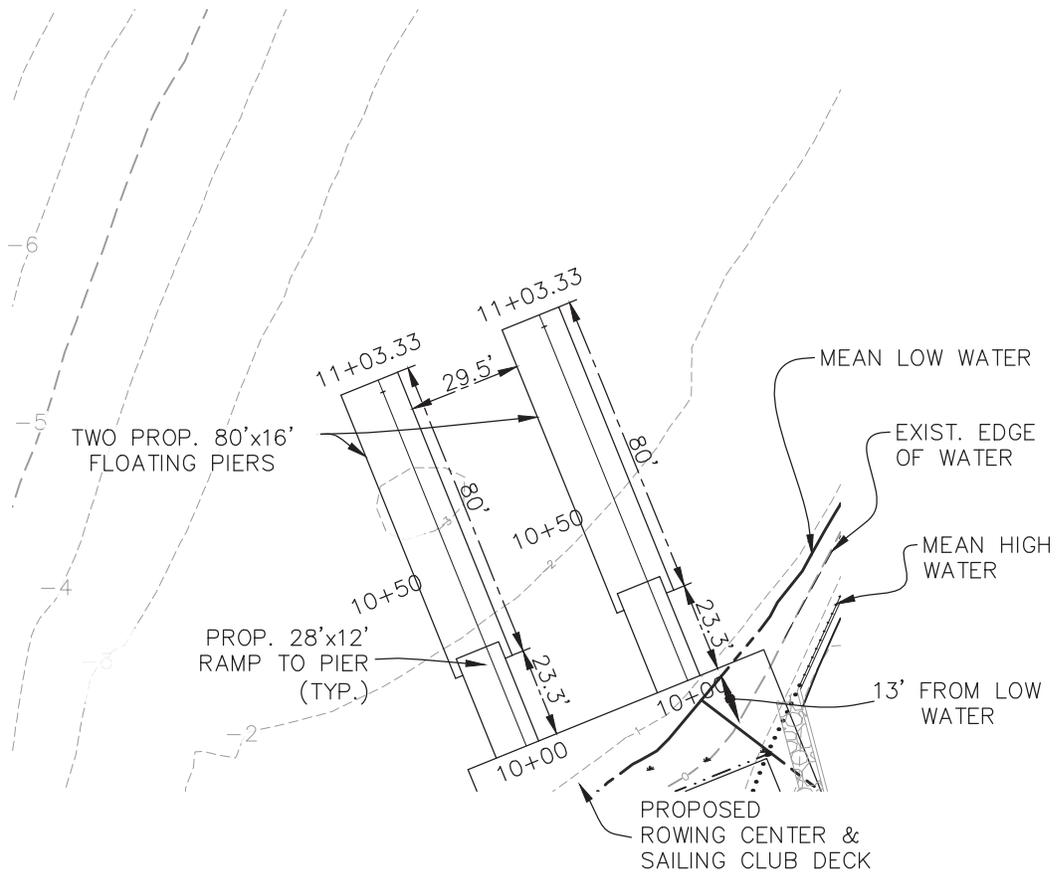

PROJECT TITLE:  
 WILLIAMS WHARF  
 LANDING

PREPARED FOR:  
 MATHEWS LAND CONSERVANCY  
 1039 WILLIAMS WHARF ROAD  
 P.O. BOX 306  
 MATHEWS, VA 23109

DRAWING TITLE:  
**IMPERVIOUS SURFACES:  
 EXISTING VS. PROPOSED**

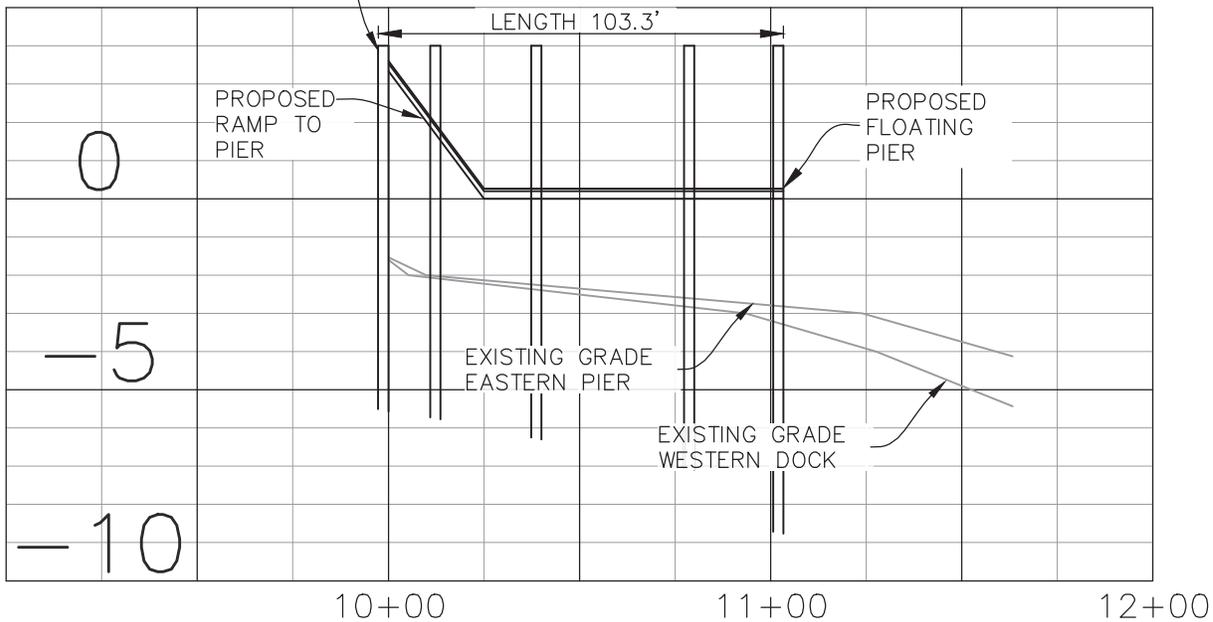
SCALE: 1" = 100'  
 DATE: 10/02/12  
 Rev. 11/21/12  
 DRAWN BY: J.J. WADE  
 PROJECT #: 08043

SHEET #:  

ROWING CENTER & SAILING CLUB DECK

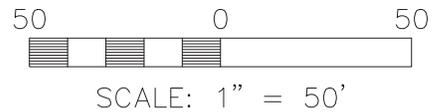
SCALE: 1":50' HOR.  
1":5' VER.



**NOTE:**

1. ALL HARDWARE USED IN CONSTRUCTION SHALL BE GALVANIZED OR STAINLESS STEEL. ALL WOOD SHALL BE SALT TREATED TIMBER ONLY.

**U.S. Army Corps of Engineers**  
**Norfolk District Regulatory Branch**  
 Received by KRG  
 Date: November 27, 2012



PREPARED BY:  
**BEARING POINT**

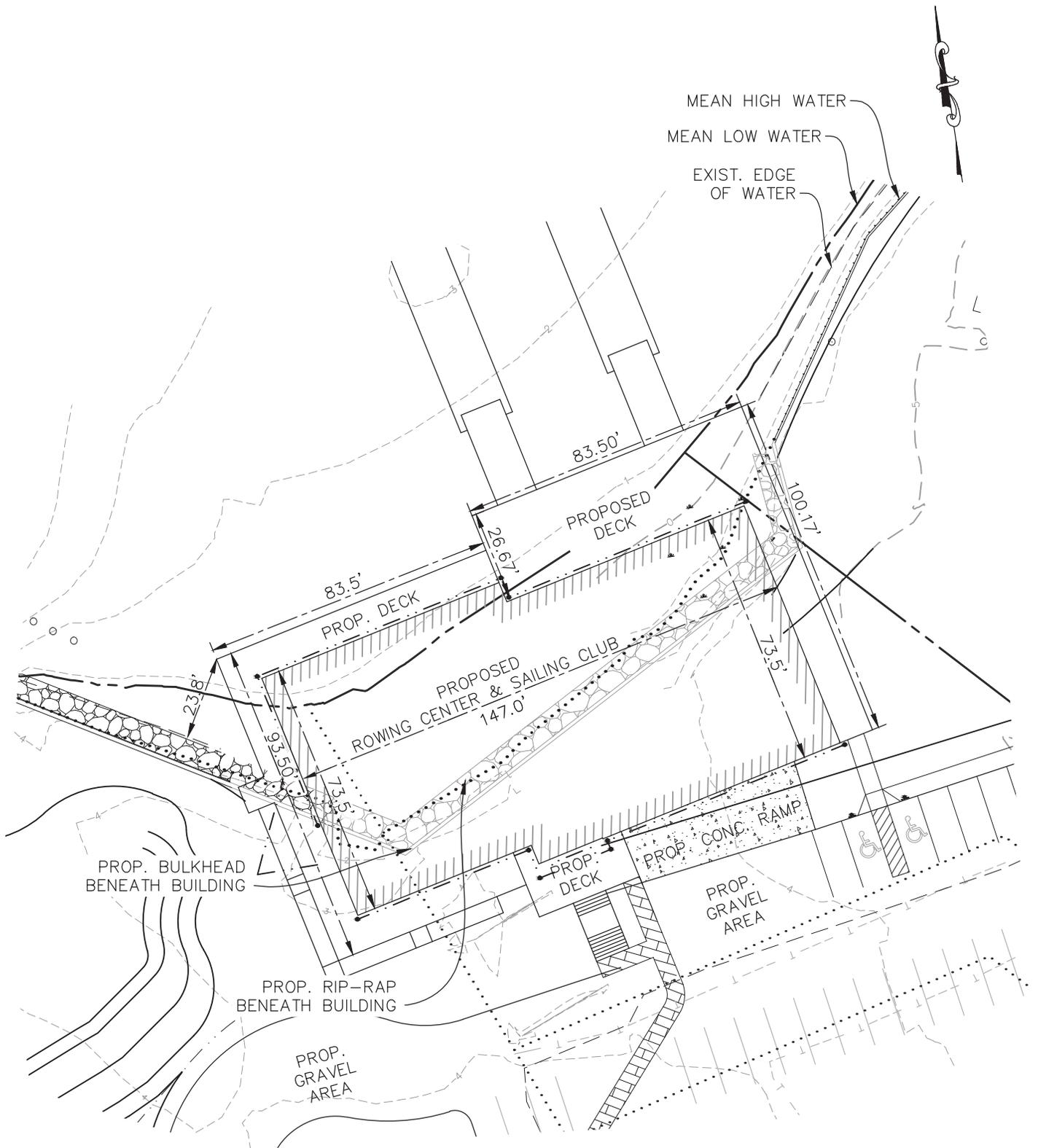
PROJECT TITLE:  
 WILLIAMS WHARF LANDING

PREPARED FOR:  
 MATHEWS LAND CONSERVANCY  
 1039 WILLIAMS WHARF ROAD  
 P.O. BOX 306  
 MATHEWS, VA 23109

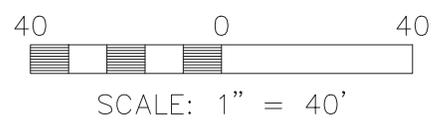
DRAWING TITLE:  
**PROPOSED 80'x16' FLOATING PIER PLAN**

SCALE: 1" = 50'  
 DATE: 10/02/12 Rev. 11/21/12  
 DRAWN BY: J.J. WADE  
 PROJECT #: 08043

SHEET #:  
**07**



U.S. Army Corps of Engineers  
 Norfolk District Regulatory Branch  
 Received by KRG  
 Date: November 27, 2012



PREPARED BY:  
**BEARING POINT**

PROJECT TITLE:  
 WILLIAMS WHARF LANDING

PREPARED FOR:  
 MATHEWS LAND CONSERVANCY  
 1039 WILLIAMS WHARF ROAD  
 P.O. BOX 306  
 MATHEWS, VA 23109

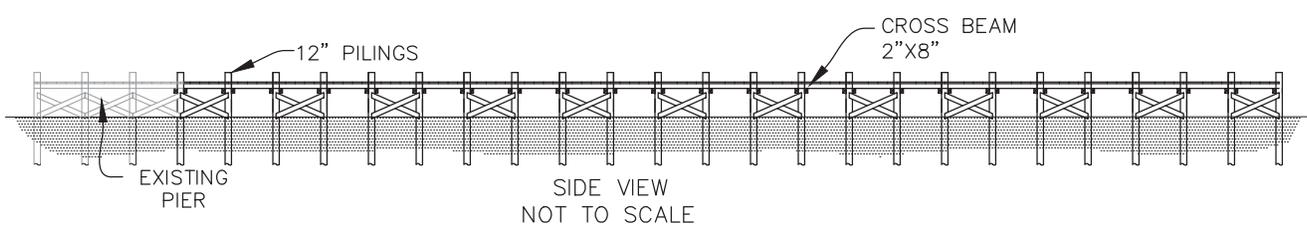
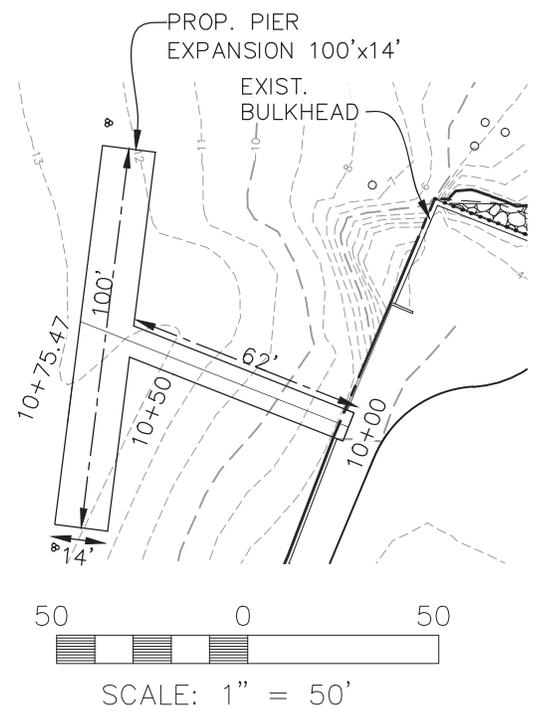
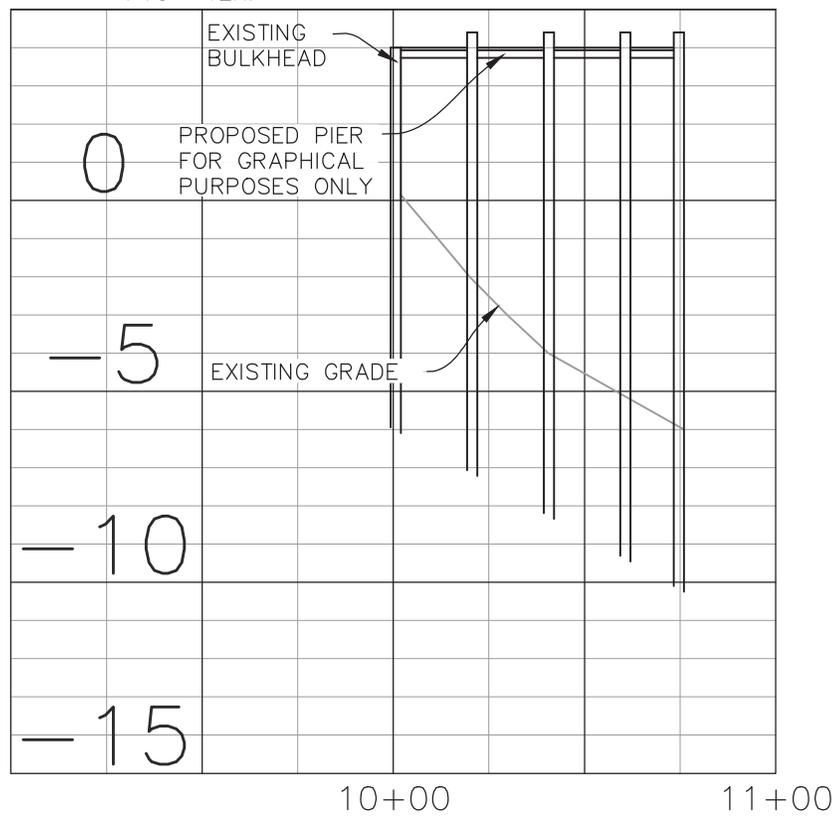
DRAWING TITLE:  
**PROPOSED ROWING CENTER & SAILING CLUB PLAN**

SCALE: 1" = 40'  
 DATE: 10/02/12  
 Rev. 11/21/12  
 DRAWN BY: J.J. WADE  
 PROJECT #: 08043

SHEET #:  
**08**



SCALE: 1":50' HOR.  
1":5' VER.



**NOTE:**

1. ALL HARDWARE USED IN CONSTRUCTION SHALL BE GALVANIZED OR STAINLESS STEEL. ALL WOOD SHALL BE SALT TREATED TIMBER ONLY.
2. ALL STRINGERS AND SIDE CAPS SHALL BE FASTENED WITH MINIMUM 5/8" BOLTS, NUTS, W/WASHERS. BRACES MAY BE FASTENED WITH NAILS.
3. MAXIMUM HEIGHT OF DECKING ABOVE WATER LEVEL SHALL BE 5.0'. CONTRACTOR TO VERIFY DESIRED PILING HEIGHT WITH OWNER.

**U.S. Army Corps of Engineers**  
**Norfolk District Regulatory Branch**  
 Received by KRG  
 Date: November 27, 2012

PREPARED BY:  
**BEARING POINT**

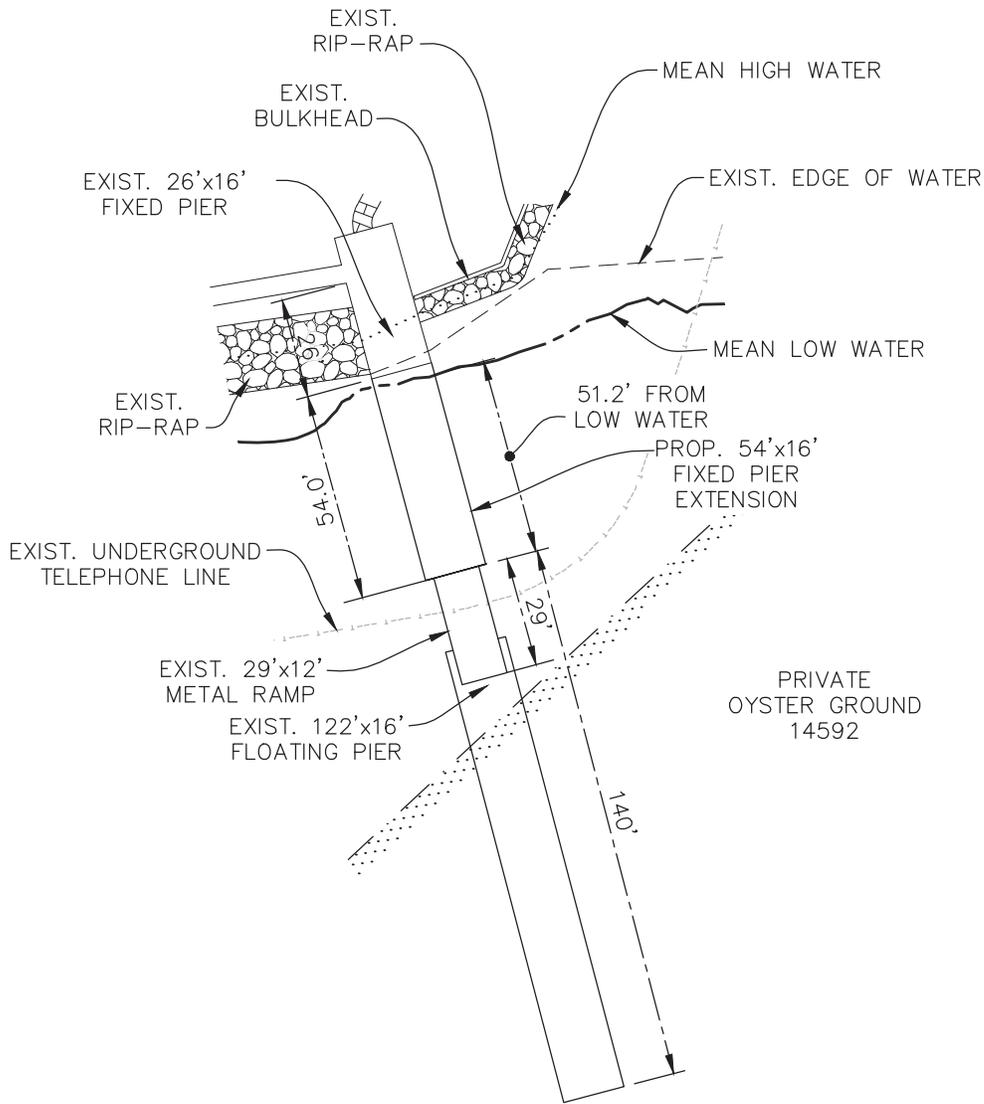
PROJECT TITLE:  
 WILLIAMS WHARF LANDING

PREPARED FOR:  
 MATHEWS LAND CONSERVANCY  
 1039 WILLIAMS WHARF ROAD  
 P.O. BOX 306  
 MATHEWS, VA 23109

DRAWING TITLE:  
**PROPOSED PIER EXPANSION PLAN, 100'x14'**

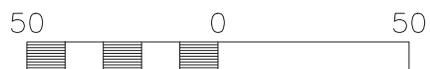
SCALE: 1" = 50'  
 DATE: 10/02/12  
 Rev. 11/21/12  
 DRAWN BY: J.J. WADE  
 PROJECT #: 08043

SHEET #:  
**09**



**NOTE:**

1. ALL HARDWARE USED IN CONSTRUCTION SHALL BE GALVANIZED OR STAINLESS STEEL. ALL WOOD SHALL BE SALT TREATED TIMBER ONLY.



SCALE: 1" = 50'

**U.S. Army Corps of Engineers**  
**Norfolk District Regulatory Branch**  
 Received by KRG  
 Date: November 27, 2012

PREPARED BY:

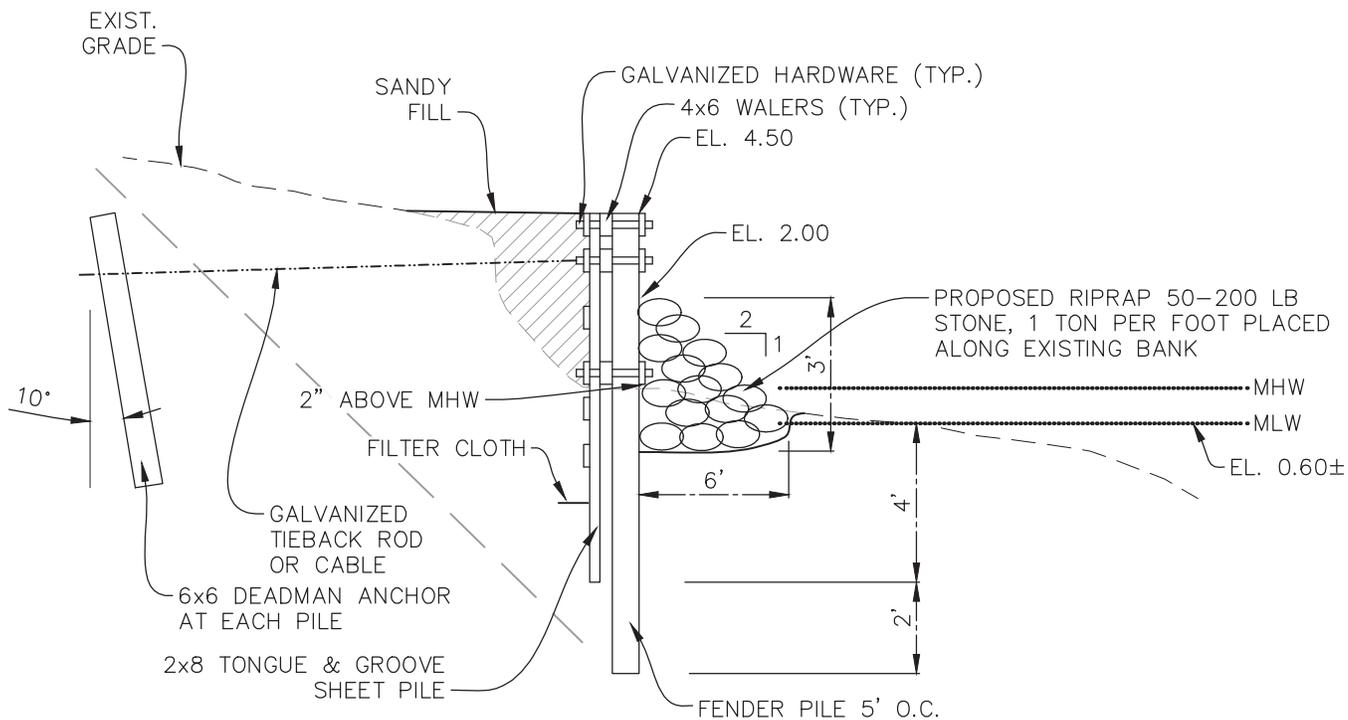
PROJECT TITLE:  
 WILLIAMS WHARF LANDING

PREPARED FOR:  
 MATHEWS LAND CONSERVANCY  
 1039 WILLIAMS WHARF ROAD  
 P.O. BOX 306  
 MATHEWS, VA 23109

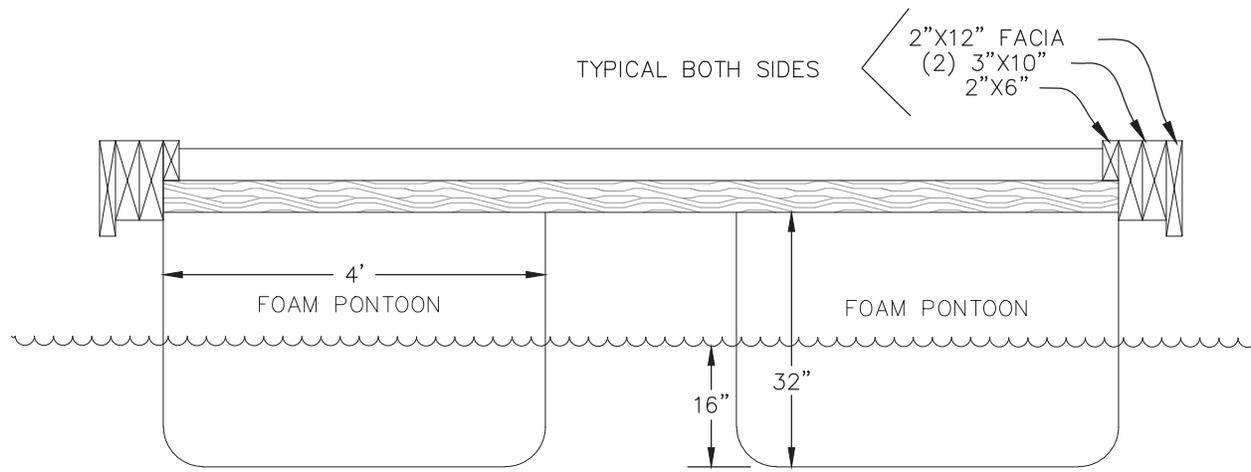
DRAWING TITLE:  
**PROPOSED 140'x16' FLOATING PIER PLAN**

SCALE: 1" = 50'  
 DATE: 10/02/12 Rev. 11/21/12  
 DRAWN BY: J.J. WADE  
 PROJECT #: 08043

SHEET #:



**RIP-RAP & BULKHEAD**  
NOT TO SCALE



**FLOATING PIER**  
SCALE : 1/2" = 1'

**U.S. Army Corps of Engineers**  
**Norfolk District Regulatory Branch**  
**Received by KRG**  
**Date: November 27, 2012**

PREPARED BY:  
**BEARING POINT**

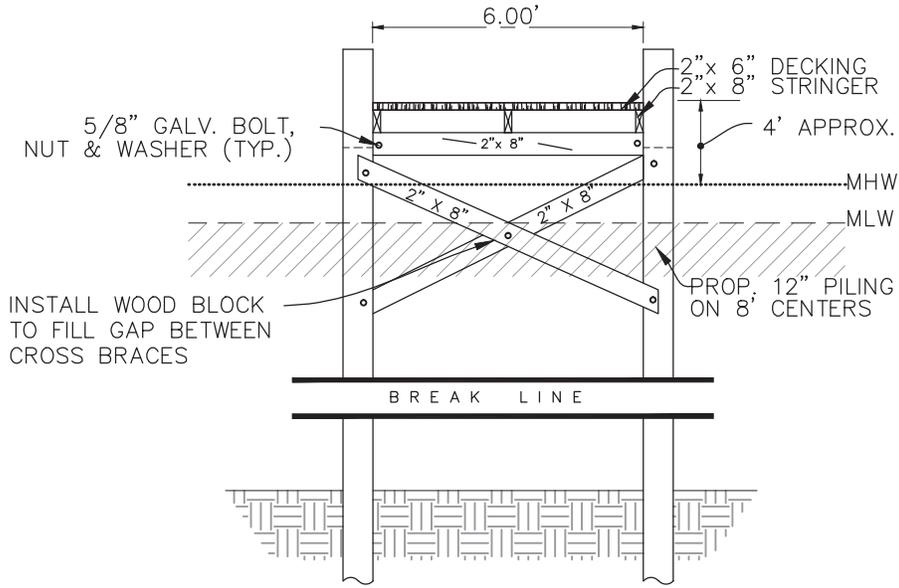
PROJECT TITLE:  
WILLIAMS WHARF  
LANDING

PREPARED FOR:  
MATHEWS LAND CONSERVANCY  
1039 WILLIAMS WHARF ROAD  
P.O. BOX 306  
MATHEWS, VA 23109

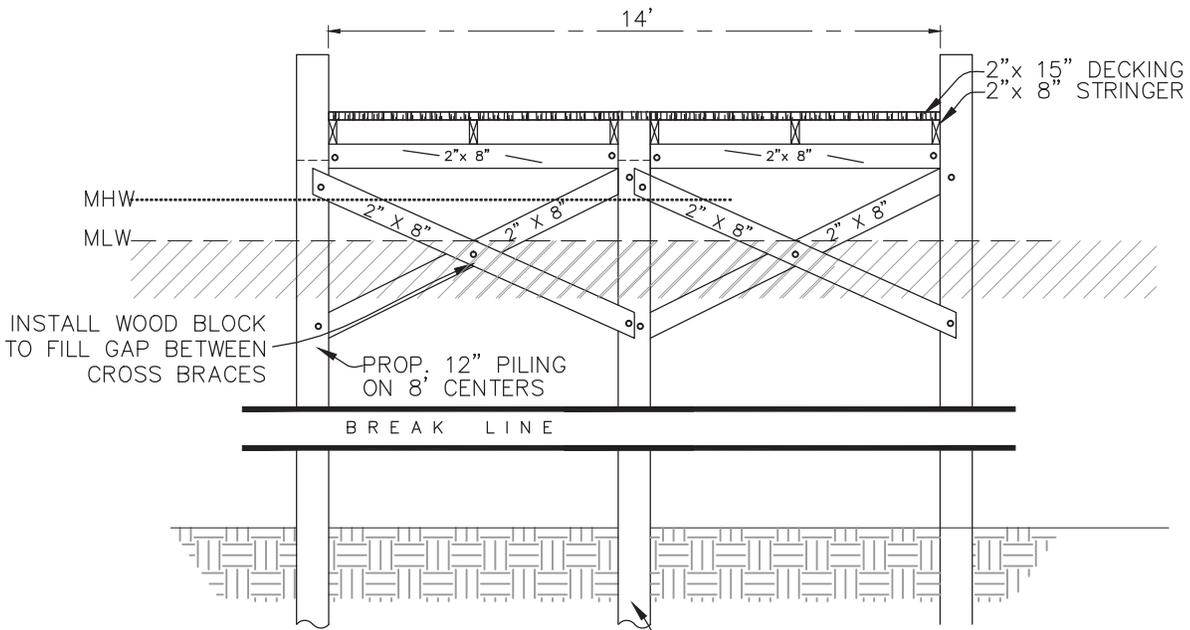
DRAWING TITLE:  
**FLOATING PIER,  
RIP-RAP &  
BULKHEAD DETAILS**

SCALE: 1/2" = 1'  
DATE: 10/02/12  
Rev. 11/21/12  
DRAWN BY: J.J. WADE  
PROJECT #: 08043

SHEET #:  
**11**



CROSS SECTION 135'x6' PIER



CROSS SECTION 100'x14' PIER EXPANSION

U.S. Army Corps of Engineers  
 Norfolk District Regulatory Branch  
 Received by KRG  
 Date: November 27, 2012

PREPARED BY:  
**BEARING POINT**

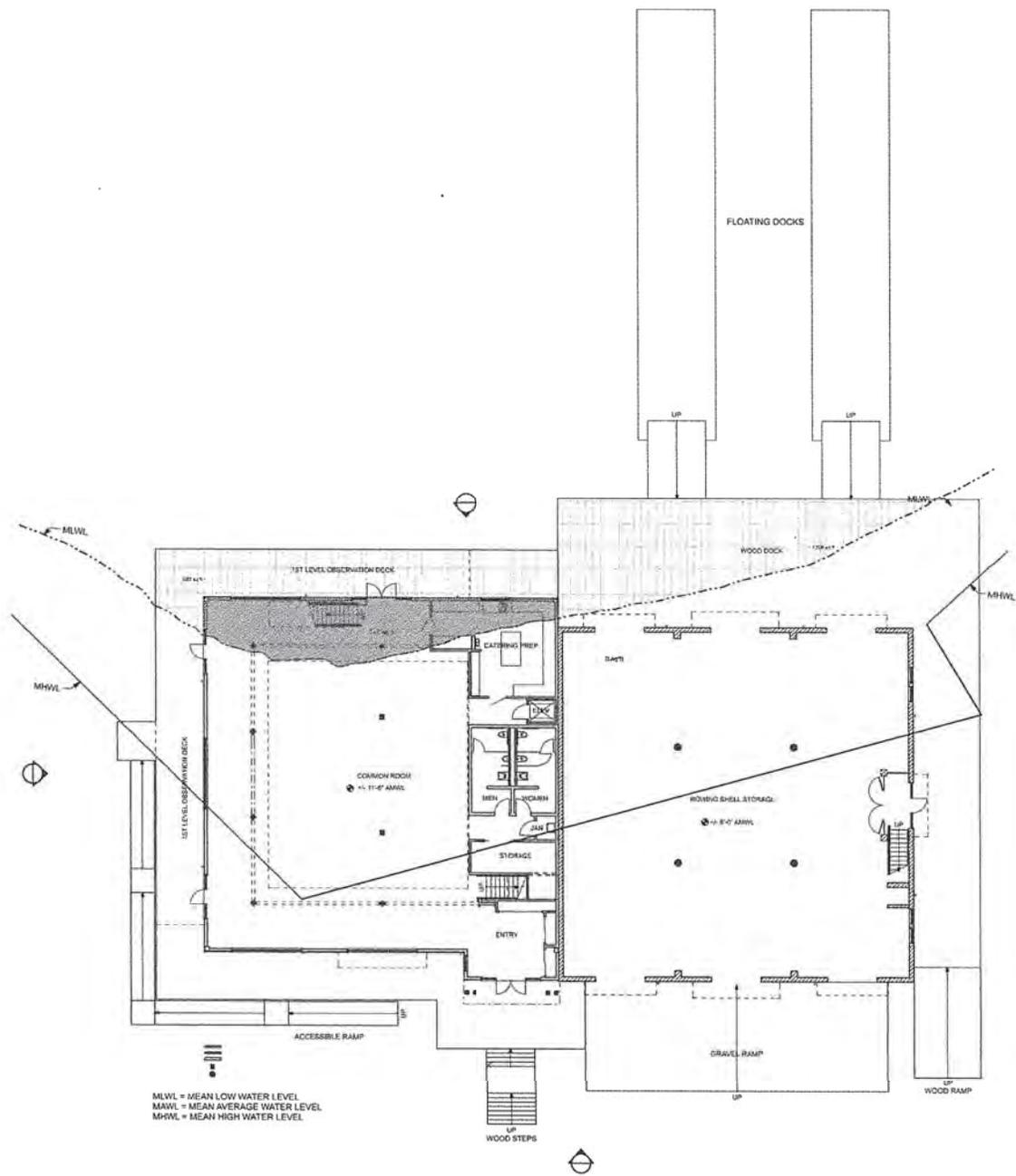
PROJECT TITLE:  
 WILLIAMS WHARF LANDING

PREPARED FOR:  
 MATHEWS LAND CONSERVANCY  
 1039 WILLIAMS WHARF ROAD  
 P.O. BOX 306  
 MATHEWS, VA 23109

DRAWING TITLE:  
**CROSS BRACING DETAIL**

SCALE: N.T.S.  
 DATE: 10/02/12  
 Rev. 11/21/12  
 DRAWN BY: J.J. WADE  
 PROJECT #: 08043

SHEET #:  
**12**



U.S. Army Corps of Engineers  
 Norfolk District Regulatory Branch  
 Received by KRG  
 Date: November 27, 2012

PREPARED BY:  
**BEARING POINT**

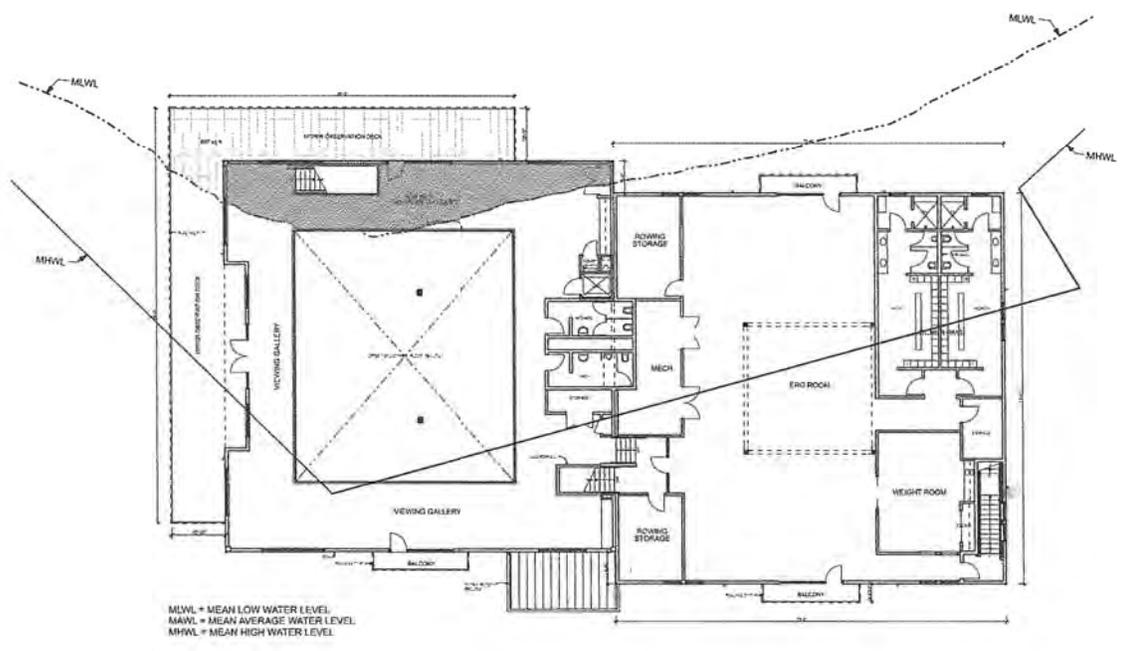
PROJECT TITLE:  
 WILLIAMS WHARF  
 LANDING

PREPARED FOR:  
 MATHEWS LAND CONSERVANCY  
 1039 WILLIAMS WHARF ROAD  
 P.O. BOX 306  
 MATHEWS, VA 23109

DRAWING TITLE:  
**1st FLOOR  
 ROWING CENTER &  
 SAILING CLUB PLAN**

SCALE: N.T.S.  
 DATE: 10/02/12  
 Rev. 11/21/12  
 DRAWN BY: J.J. WADE  
 PROJECT #: 08043

SHEET #:  
**13**



U.S. Army Corps of Engineers  
 Norfolk District Regulatory Branch  
 Received by KRG  
 Date: November 27, 2012

PREPARED BY:  
**BEARING POINT**

PROJECT TITLE:  
 WILLIAMS WHARF  
 LANDING

PREPARED FOR:  
 MATHEWS LAND CONSERVANCY  
 1039 WILLIAMS WHARF ROAD  
 P.O. BOX 306  
 MATHEWS, VA 23109

DRAWING TITLE:  
**2nd FLOOR  
 ROWING CENTER &  
 SAILING CLUB PLAN**

SCALE: N.T.S.  
 DATE: 10/02/12  
 Rev. 11/21/12  
 DRAWN BY: J.J. WADE  
 PROJECT #: 08043

SHEET #:  
**14**



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PROJECT MANAGER: JHM  
 DESIGNED: JJW  
 DRAWN BY: JJW  
 CHECKED: JHM  
 SCALE: AS SHOWN  
 DATE: 12/27/12



910 Arundel Street  
 Morehead City, NC 28557  
 (252) 247-4200

www.bearingpt.com

OWNER:  
 MATHEWS LAND CONSERVANCY  
 103A WILLIAMS WHARF ROAD  
 P. O. BOX 386  
 MATHEWS, VA 23189

PROJECT:  
 WILLIAMS WHARF LANDING

MATHEWS COUNTY, VA

DRAWING:

WETLAND MITIGATION PLAN

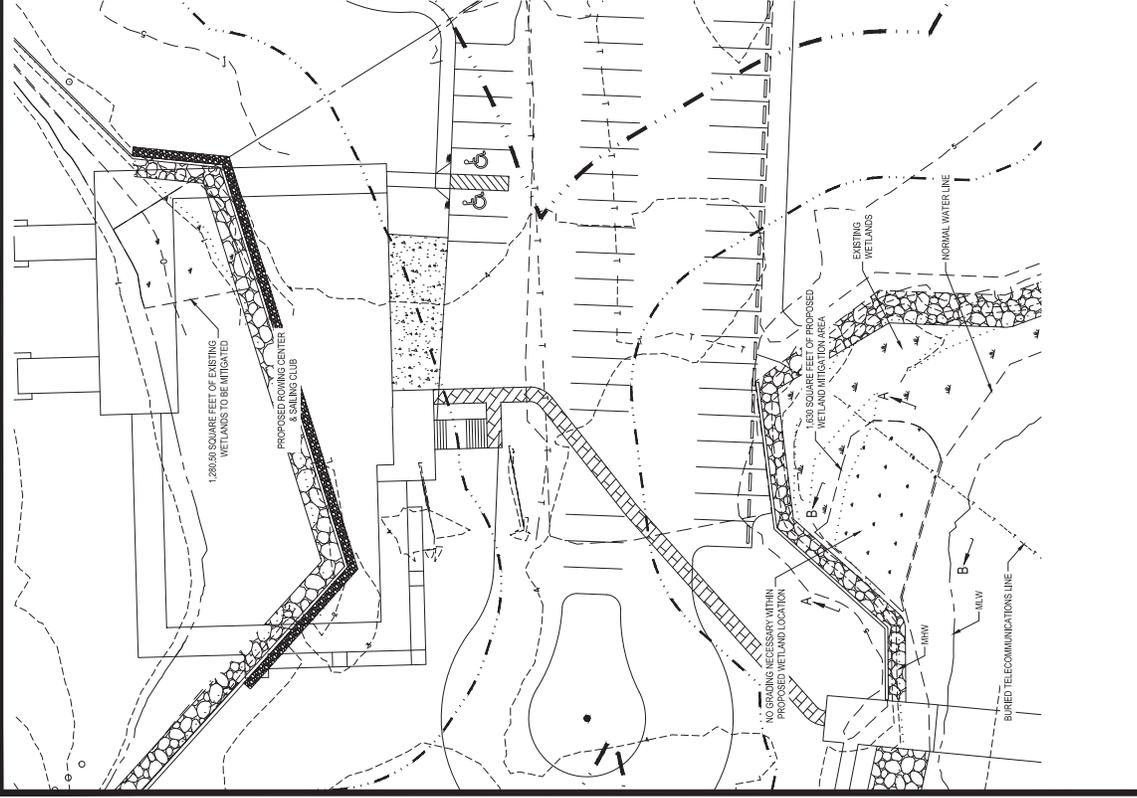
Preliminary Drawing  
 Not For Construction

NO.	REVISION	BY	DATE

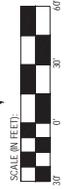
SHEET NO.

04

OF 4  
 JOB NO. 08043



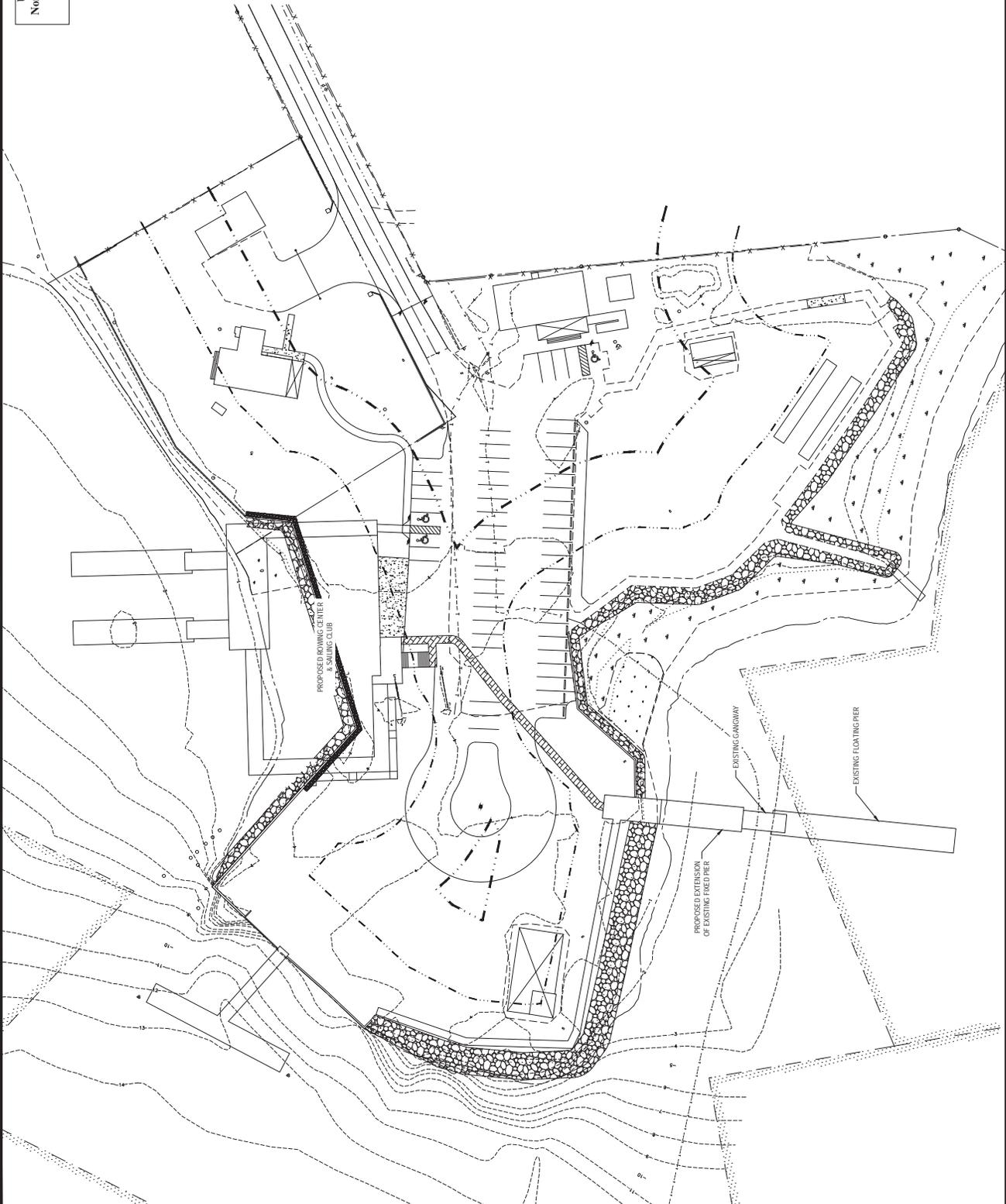
WETLAND MITIGATION PLAN  
 SCALE: 1" = 30'



- NOTES:
1. WETLANDS MITIGATION/RESTORATION MONITORING PLAN SHALL BE PROVIDED UPON REQUEST OF COUNTY.
  2. SPARTINA PATENS TO BE PLANTED LANDWARD OF MEAN HIGH WATER AND SPARTINA ALTERNIFLORA TO BE PLANTED LANDWARD OF MEAN HIGH WATER.
  3. PLANT ROOT ZONE MUST BE ABOVE MLW.
  4. INSTALL PLANTS 4' DEEP ON 18" CENTERS.
  5. PLACE 5.0 or OSMOCCITE (18-6-12) FERTILIZER IN HOLE AT TIME OF PLANTING.

U.S. Army Corps of Engineers  
 Norfolk District Regulatory Branch  
 Received by KRG  
 Date: December 28, 2012

U.S. Army Corps of Engineers  
 Norfolk District Regulatory Branch  
 Received by KRG  
 Date: December 28, 2012



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PROJECT MANAGER: JHM  
 DESIGNED: JJW  
 DRAWN BY: JJW  
 CHECKED: JHM  
 SCALE: 1" = 30'  
 DATE: 12/27/12



910 Arundel Street  
 Morehead City, NC 28557  
 (252) 244-4200

www.bearingpt.com

OWNER:  
 MATHEWS LAND CONSERVANCY  
 1038 WILLIAMS WHARF ROAD  
 P. O. BOX 386  
 MATHEWS, VA 23109

PROJECT:  
 WILLIAMS WHARF LANDING

MATHEWS COUNTY, VA

DRAWING:  
 OVERALL PLAN

Preliminary Drawing  
 Not For Construction

NO.	REVISION	BY	DATE

01

OF 4  
 SHEET NO. 08043



# United States Department of the Interior



FISH AND WILDLIFE SERVICE  
VIRGINIA ECOLOGICAL SERVICES FIELD OFFICE  
6669 SHORT LANE  
GLOUCESTER, VA 23061  
PHONE: (804)693-6694 FAX: (804)693-9032  
URL: [www.fws.gov/northeast/virginiafield/](http://www.fws.gov/northeast/virginiafield/)

Consultation Tracking Number: 05E2VA00-2013-SLI-0584

January 07, 2013

Project Name: NAO-2012-02060 Williams Wharf

Subject: List of threatened and endangered species that may occur in your proposed project location, and/or may be affected by your proposed project.

## To Whom It May Concern:

The enclosed species list identifies threatened, endangered, and proposed species, designated critical habitat, and candidate species that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having

similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

<http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF>

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan ([http://www.fws.gov/windenergy/eagle\\_guidance.html](http://www.fws.gov/windenergy/eagle_guidance.html)). Additionally, wind energy projects should follow the wind energy guidelines (<http://www.fws.gov/windenergy/>) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: <http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm>; <http://www.towerkill.com>; and <http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html>.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment



United States Department of Interior  
Fish and Wildlife Service

Project name: NAO-2012-02060 Williams Wharf

## Official Species List

### Provided by:

VIRGINIA ECOLOGICAL SERVICES FIELD OFFICE

6669 SHORT LANE

GLOUCESTER, VA 23061

(804) 693-6694

<http://www.fws.gov/northeast/virginiafield/>

**Consultation Tracking Number:** 05E2VA00-2013-SLI-0584

**Project Type:** Development

**Project Description:** Construction of a pile supported rowing and sailing center over Section 10 waters, construction/reconfiguration of several piers and construction of a section of rip rap revetment and bulkhead.



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### Project Location Map:



**Project Coordinates:** MULTIPOLYGON (((-76.3465468 37.4040165, -76.3465307 37.4040336, -76.3460583 37.4037958, -76.3459441 37.403545, -76.3457976 37.4028546, -76.3463577 37.4028448, -76.3469791 37.4029554, -76.3470296 37.4038887, -76.3468257 37.4041444, -76.3465468 37.4040165)))

**Project Counties:** Mathews, VA



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## Endangered Species Act Species List

Species lists are not entirely based upon the current range of a species but may also take into consideration actions that affect a species that exists in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species. Please contact the designated FWS office if you have questions.

There are no listed species identified for the vicinity of your project.