DEPARTMENT OF THE ARMY
SAVANNAH DISTRICT, CORPS OF ENGINEERS
100 W. OGLETHORPE AVENUE
SAVANNAH, GEORGIA 31401-3640

REPLY TO
ATTENTION OF

MAY 09 2012

Regulatory Division
SAS-2009-00630

JOINT PUBLIC NOTICE
Savannah District/State of Georgia

The Savannah District has received an application for a Department of the Army Permit, pursuant to Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403) and Section 404 of the Clean Water Act (33 U.S.C. 1344), as follows:

Application Number: SAS-2009-00630

Applicant: Mr. Nathaniel Panther
Chatham County Department of Engineering
Post Office Box 8161
Savannah, Georgia, 31412

Agent: Resource and Land Consultants
41 Park of Commerce Way, Suite 303
Savannah, Georgia 31405

Location of Proposed Work: The project site is located adjacent to and west of Turners Creek and north and south of Johnny Mercer Boulevard within Chatham County, Georgia (Latitude 32.0226, Longitude -80.9948).

Description of Work Subject to the Jurisdiction of the US Army Corps of Engineers (USACE): The proposed project includes improvement and expansion of the existing Turners Creek Boat Ramp Recreational Facility. The existing ramp facility is owned and operated by Chatham County and provides public water access and boat launching opportunities. Chatham County is proposing to temporarily impact 0.02 acre of freshwater wetland and 0.21 acre of salt marsh for construction of a temporary access road. Removal of deposited concrete debris and bank stabilization would temporarily impact 0.11 acre of open water and 0.15 acre of salt marsh. Utility line installation would temporarily impact 0.01 acre of tidal ditch. The project would permanently impact 0.01 acre of salt marsh for facility access improvements. Installation of a boat ramp would permanently impact 0.09 acre of open water and 0.02 acre of salt marsh. A floating dock facility totaling 0.03 acre is proposed for construction within Turners Creek. Cumulative temporary and permanent impacts for the project total 0.65 acre. The applicant is not proposing compensatory mitigation. However, they are proposing the installation of stormwater management facilities and the use of bioengineered materials (bagged oyster shells)

for erosion control and bank stabilization. Please see the attached drawings provided by the applicant for more detailed information.

BACKGROUND

This Joint Public Notice announces a request for authorizations from both the US Army Corps of Engineers (USACE) and the State of Georgia. The applicant's proposed work may also require local governmental approval.

STATE OF GEORGIA

Water Quality Certification: The Georgia Department of Natural Resources, Environmental Protection Division, intends to certify this project at the end of 30 days in accordance with the provisions of Section 401 of the Clean Water Act, which is required for a Federal Permit to conduct activity in, on, or adjacent to the waters of the State of Georgia. Copies of the application and supporting documents relative to a specific application will be available for review and copying at the office of the Georgia Department of Natural Resources, Environmental Protection Division, Water Protection Branch, 4220 International Parkway, Suite 101, Atlanta, Georgia 30354, during regular office hours. A copier machine is available for public use at a charge of 25 cents per page. Any person who desires to comment, object, or request a public hearing relative to State Water Quality Certification must do so within 30 days of the State's receipt of application in writing and state the reasons or basis of objections or request for a hearing. The application can be reviewed in the Savannah District, US Army Corps of Engineers, Regulatory Division, 100 W. Oglethorpe Avenue Savannah, Georgia 31401-3640.

State-owned Property and Resources: The applicant may also require assent from the State of Georgia, which may be in the form of a license, easement, lease, permit or other appropriate instrument.

Marshland Protection: This notice also serves as notification of a request to alter coastal marshlands (under the provision of the Coastal Marshlands Protection Act, Georgia Laws, 1970, p. 939 and as amended), if required. Comments concerning this action should be submitted to the Ecological Services Section, Coastal Resources Division, Georgia Department of Natural Resources, 1 Conservation Way, Brunswick, Georgia 31523-8600 (Telephone 912-264-7218).

Georgia Coastal Management Program: Prior to the USACE making a final permit decision on this application, the project must be certified by the Georgia Department of Natural Resources, Coastal Resources Division, to be consistent with applicable provisions of the State of Georgia Coastal Management Program (15 CFR 930). Anyone wishing to comment on Coastal Management Program certification of this project should submit comments in writing within 30 days of the date of this notice to the Federal Consistency Coordinator, Ecological Services Section, Coastal Resources Division, Georgia Department of Natural Resources, One Conservation Way, Brunswick, Georgia 31523-8600 (Telephone 912-264-7218).

US ARMY CORPS OF ENGINEERS

The Savannah District must consider the purpose and the impacts of the applicant's proposed work, prior to a decision on issuance of a Department of the Army Permit.

Cultural Resources Assessment: A review of the latest published version of the National Register of Historic Places indicates that no properties listed on the National Register of Historic Places are located near or within the permit area, or will be affected by, the proposed work. Further review of the Georgia Department of Natural Resources, Historic Preservation Division's (HPD) listing of historic structures and the Georgia Archaeological Survey Site files indicates that there are no known or recorded properties eligible for inclusion in the National Register within or adjacent to the proposed permit area. Presently unknown archaeological, scientific, prehistorical or historical data may be located at the site and could be affected by the proposed work. Savannah District is consulting with the HPD pursuant to Section 106 of the National Historic Preservation Act with respect to the potential for unknown archaeological or historical data or properties that might be affected by the proposed undertaking.

Essential Fish Habitat (EFH): Under Section 50 CFR 600.920(i), we are requesting Abbreviated Consultation Procedures for proposed impacts to EFH that may occur as a result of the project. A brief EFH Assessment is provided below:

The applicant's proposal would result in the destruction or alteration of 0.59 acre of EFH utilized by various life stages of species comprising the red drum, peneaid shrimp, bluefish or snapper grouper management complexes. The project would require temporary impacts to 0.21 acre of salt marsh for construction access, 0.11 acre of unvegetated creek bottom for bank stabilization and 0.15 acre of salt marsh for bank stabilization. Facility access improvements would require permanent impacts to 0.01 acre of salt marsh. Installation of a boat ramp would require permanent impacts to 0.09 acre of unvegetated creek bottom and 0.02 acre of salt marsh. The applicant proposes the use of bioengineered shoreline stabilization measures (bagged oyster shells) to mitigate for potential adverse impacts to EFH that may result from the project. Stormwater management facilities will be installed to improve the quality of runoff water leaving the project site. Based on the information contained in the application, the USACE has made a No Adverse Effect determination for EFH. Our determination and the need for mitigation measures are subject to review by and coordination with the NMFS and the South Atlantic Fisheries Management Council.

Endangered Species: The USACE has made a determination of No Effect to species or critical habitat for all species except the West Indian manatee (*Trichechus manatus*). The proposed project work area contains habitat for the West Indian manatee. Therefore the USACE has determined that the proposed construction and operation activities may affect, but are not likely to adversely affect The West Indian manatee. Construction activities will be conducted in accordance with established construction manatee protection conditions to minimize potential adverse affects to the manatee. Post construction operation of the facility will include adherence to the standard manatee conditions and a maintenance plan that will provide for routine inspection of any freshwater sources that could potentially attract manatees. Pursuant to Section

7(c) of the Endangered Species Act of 1973, as amended (16 U.S.C. 1531 et seq.), we request concurrence from the US Fish and Wildlife Service on this determination.

Public Interest Review: The decision whether to issue a permit 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 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, 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.

Consideration of Public Comments: The USACE is soliciting comments from the public; federal, state, and local agencies and officials; Native American 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 USACE 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.

Application of Section 404(b)(1) Guidelines: The proposed activity involves the discharge of dredged or fill material into the waters of the United States. The Savannah District's evaluation of the impact of the activity on the public interest will include application of the guidelines promulgated by the Administrator, Environmental Protection Agency, under the authority of Section 404(b) of the Clean Water Act.

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 for a Department of the Army Permit. Requests for public hearings shall state, with particularity, the reasons for requesting a public hearing. The decision whether to hold a public hearing is at the discretion of the District Engineer, or his designated appointee, based on the need for additional substantial information necessary in evaluating the proposed project.

Comment Period: Anyone wishing to comment on this application for a Department of the Army Permit should submit comments in writing to the Commander, US Army Corps of Engineers, Savannah District, Attention: Mr. Brian Moore, 100 W. Oglethorpe Avenue Savannah, Georgia 31401-3640, no later than 30 days from the date of this notice. Please refer to the applicant's name and the application number in your comments.

If you have any further questions concerning this matter, please contact Mr. Brian Moore, Regulatory Specialist, Coastal Branch at 912-652-5349.

(2) Encls
1. Location Map
2. Turner's Creek Boat Ramp Improvements Exhibits (Sheets 1-10, 13, 14 & 18-21)

TURNERS CREEK BOAT RAMP IMPROVEMENTS
Chatham County, Georgia
Chatham County Department of Engineering
Project Description
Revised March 2012

1.0 INTRODUCTION:

Chatham County Department of Engineering is seeking authorization under Section 10 of the Rivers & Harbors Act of 1899, Section 404 of the Clean Water Act, and the Coastal Marshlands Protection Act of 1970 for a proposed recreational facilities expansion project. The project area consists of 26.67 acres located adjacent to and west of Turners Creek and north and south of Johnny Mercer Boulevard within Chatham County, Georgia (Latitude 32.020814 ° Longitude -81.992481°)(Hydrologic Map Cataloging Unit 03060109). Location maps and aerial photographs depicting the general project limits are provided in Appendix A of this document.

2.0 BACKGROUND AND PROJECT PURPOSE:

The proposed project includes improvement and expansion of the existing Turners Creek Boat Ramp Recreational Facility. The existing ramp facility is owned and operated by Chatham County and provides public water access and boat launching opportunities for County residents. Because this ramp is heavily used, Chatham County determined that expansion of the existing facilities and general site improvements were warranted.

In 2007, Chatham County began an intensive review of opportunities to expand the existing boat ramp and improve overall public access and parking. From 2007-2010, the County reviewed a variety of site plan alternatives that would accommodate the current level of recreational boating traffic at this facility. This review and design study documented that accommodating the current and predicted future public use would require improvements in traffic flow and expansion of the facility to accommodate daily vehicle and trailer parking. In 2011 and as a result of this study, the County acquired a 1.64 acre parcel located adjacent to and north of the existing boat ramp.

The expansion area and recently acquired property was previously used as a retail seafood co-op facility and contained an existing 3,400 square foot building, two docks and facility parking. Following acquisition and for security/safety and liability reasons, Chatham County removed the vertical portion of the buildings and all that remains are the building footprint/concrete slabs.

Generally, the overall project purpose includes improvements and expansion of the existing public recreational facility to provide enhanced public water access. The overall plan includes improvements to existing vehicle access from Johnny Mercer Boulevard on the north side of the project area, creation of new access on the south side of Johnny Mercer Boulevard, expansion and establishment of parking areas, construct an additional boat ramp, rehabilitate the existing walkway and floating dock (associated with former seafood co-op), removal of deteriorated floats and piles not incorporated into new facility, creation of stormwater management features, and paving of the overall parking. No improvements or modifications to the existing public boat ramp on the south side of Johnny Mercer Boulevard are proposed.

3.0 EXISTING SITE CONDITIONS:

The vast majority of the project area is developed and contains the following features:

- existing roads (both Johnny Mercer Boulevard and the existing facility access road)
- parking area associated with existing boat ramp
- parking area associated with the former seafood co-op facility
- concrete slabs associated with abandoned seafood co-op buildings
- exiting boat ramp, float, walkway
- docks associated with former seafood co-op including 136 square feet of walkway (17 feet long by 8 feet wide), 88 square feet of gangway (22 feet long by 4 feet wide), and 960 square feet of serviceable floating

dock (120 long feet by 8 feet wide). Note additional 1216 square feet (152 foot long by 8 foot wide) floating dock was historically present within the project area but was not maintained and is no longer serviceable. Combined, these facilities totaled 2,400 square feet (0.05 acre).

The project area is split by Johnny Mercer Boulevard and the Wilmington Island/Turners Creek Bridge. The existing boat ramp is located immediately south of the bridge and parking is currently provided adjacent to and under the bridge. The proposed expansion area (former seafood co-op tract) is located immediately north of Johnny Mercer. Access to the site is currently afforded on the north side of Johnny Mercer Boulevard. The tract is generally bordered to the east by Turners Creek and to the north and south by marsh. Approximately five residential homes/structures and an existing road are located north of the boat ramp access.

As verified by the U.S. Army Corps of Engineers (USACE) and Georgia Department of Natural Resources Coastal Resources Division (GADNR-CRD), the 26.67 project area consists of 14.79 acres of upland, 0.97 acre of freshwater wetland, 10.91 acres of saltwater wetland and waters. The upland area consists of existing development features discussed above and smaller areas that remain vegetated. Vegetated upland areas contain *Pinus taeda*, *Myrica cerifera*, *Quercus virginiana*, *Baccharis halimifolia*, *Juniperus virginiana* and *Paspalum notatum*. Developed upland areas contain existing roads, gravel parking, paved parking, buildings, etc. The marsh area contains a variety of herbaceous species including *Spartina alterniflora*, *Juncus roemerianus*, *Spartina patens*, *Distichlis spicata*, *Salicornia bigelovii*, *Batis maritima*, *Borrichia frutescens*, and *Baccharis halimifolia*. A jurisdictional determination has been completed by the USACE and GADNR-CRD and is included in this package within Appendix B. Photographs depicting existing site conditions are provided in Appendix C.

4.0 PROPOSED PROJECT:

The project generally includes improvements to vehicle access from Johnny Mercer Boulevard, bank stabilization, construct an additional boat ramp, rehabilitate the existing walkway and floating dock (associated with former seafood co-op), utility installation, building reconstruction, expansion and paving of parking areas, removal of deteriorated floats and piles not incorporated into the new facility, and creation of stormwater management features. Table 1. Provides a summary of impacts associated with each activity.

TABLE 1.

IMPACT DURATION	IMPACT TYPE								Total Impact (Ac.)
	Facility Access Improvement Impacts (ac.)	Bank Stabilization	Boat Ramp	Utility Line Installation	Building Rehabilitation	Parking	Floating Dock	Stormwater Management	
Temporary Impact									
Saltwater Impact	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	**0.11**
Freshwater Impact	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.02**
Salt Marsh Impact	0.21	0.15	0.00	<0.01	0.00	0.00	0.00	0.00	**0.37**
Permanent Impact									
Saltwater Impact	0.00	0.00	0.09	0.00	0.00	0.00	0.03	0.00	**0.12**
Freshwater Impact	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.00**
Salt Marsh Impact	0.01	0.00	0.02	0.00	0.00	0.00	0.00	0.00	**0.03**
TOTAL IMPACT	0.24	0.26	0.11	0.01	0.00	0.00	0.03	0.00	0.68*

*Total impact includes 0.65 acre as depicted on the permit drawings and 0.03 acre of floating dock.

As depicted in Table 1, both temporary and permanent impacts are associated with the project. Impacts include 0.02 acre of temporary freshwater wetland impact and 0.21 acre of temporary salt marsh impacts for construction access, , 0.11 acre of temporary saltwater/open water impact for bank stabilization (debris removal and oyster bag installation) and 0.15 acre of temporary salt marsh impact for bank stabilization (debris removal and oyster bag

installation), and <0.01 acre of temporary tidal ditch impact for utility line installation. Permanent impacts include 0.03 acre of salt marsh wetland impact for access and facility improvements and 0.09 acre of saltwater/open water impact and 0.02 acre of salt marsh wetland impact for boat ramp installation. In addition, the proposed floating dock facilities will total 0.03 acre. The new dock facilities will consist of a 41 foot long by 6 foot wide (246 s.f.) walkway, a 35 foot long by 4 foot wide (140 s.f.) gangway connecting the walkway and float, and a 125 foot by 8 foot wide float (1,000 s.f.). Any existing structures that can be incorporated into the proposed project will be maintained and all other existing piles, walkways, gangways, and floats existing within the project area and associated with the previous seafood co-op will be removed. This facility historically consisted of 0.05 acre of walkway, gangway, and floating dock. The proposed facility will total 0.03 acre and reduce the overall area of these structures by 0.02 acre. Waters of the U.S. or Coastal Marshlands are not associated with parking improvements or building reconstruction.

Detailed permit drawings depicting the site plan and typical sections of the facility are provided in the attached permit drawings (Appendix D).

4.1 Marshlands & Upland Component:

As defined by the GADNR, the marshlands component of a project means the part of the project in an estuarine area or any structure on or over an estuarine area requiring a permit under the Coastal Marshlands Protection Act. The upland component is defined as all those service areas, amenities, and recreational areas located inland of the Coastal Marshlands Protection Act jurisdiction line that serve or augment the function of the marshlands component of the project. For this project, the marshlands component would include the proposed impact areas associated with the road improvements, the proposed boat ramp and dock facilities, as well as those areas where bank stabilization will occur. The upland component would consist of all upland area within the project site.

As required by the GADNR, the applicant has maintained a 50 foot buffer in all areas feasible however due to the size, configuration, and existing condition of the property, this project does require activities within the 50 foot buffer. Activities required within the 50 foot buffer include improvements to the existing access road, improvements to existing parking area, stabilization of the bank (removal of debris and stabilization with oyster bags), and non structural stormwater management features/vegetated dry detention basins. The project includes construction of restrooms within the building/slab footprint currently existing within the site. No increase in building size from that previously existing on site and within the buffer is proposed. Finally, the project will include installation of a sewer force main that will extend from the site west along Johnny Mercer Boulevard and connect to an existing pump station on the south side of Bryan Woods Road.

For CMPA projects, GADNR rules require that pervious surfaces must be maximized and total impervious area minimized in the project area when practicable, with a goal of no more than 15% effective impervious cover, taking into consideration existing structures and available land within the upland component of the project area. As part of the site design and stormwater management plan, Thomas & Hutton, the applicant's consulting engineer, calculated the effective impervious surface using the GADNR-CRD Site Development Review Tool. The spreadsheet and calculations developed by CRD and provided in Appendix R determines the effective imperviousness of the site by examining the total drainage area, total impervious area and the effectiveness of the proposed structural controls to be installed during construction. The measure for Effective Imperviousness cover is total annual stormwater runoff volume. The maximum allowed runoff volume (MARV) is calculated by taking 15% of the undisturbed site and changing it into an impervious area. If the post-development scenario exceeds the MARV, the site will fail to meet the goal established by the amended Coastal Marsh Protection Act (CMPA).

In order to comply with the requirements established by the amended CMPA, the site was divided into three drainage areas and was designed to incorporate dry detention basins for two of the three drainage

areas. Due to the site layout and existing site topography it was not practical to incorporate any structural controls into the design of the third drainage area. However, the dry detention basins for the other two drainage areas were sized to treat more than the required volume of water. Taking this into account when computing the weighted average to establish an overall post-treatment reduction efficiency, the proposed development has met the Percent Effective Imperviousness Goal of 15% established by CRD.

5.0 ALTERNATIVES ANALYSIS:

As depicted on the attached permit drawings, the proposed impacts were limited to road improvements necessary to provide safe access from Johnny Mercer Boulevard and impacts associated with installation of an additional boat ramp on the northern portion of the project area. All other disturbance depicted on the permit drawings and outlined in this document are associated with bank stabilization (installation of preferred bioengineering materials) and removal and replacement of the floating dock (overall reduction in surface area within jurisdictional waters).

Because the proposed project includes expansion of an existing public facility currently owned by Chatham County, no off-site alternatives were considered. The applicant and design team reviewed several on-site alternatives and considered all opportunities to minimize impacts to the greatest extent practicable. The majority of the tract is bordered to the north, east, and west by tidal marsh and waters associated with Turners Creek and opportunities for alternate expansion would require greater impacts than the proposed project. In addition, because the site is split by Johnny Mercer Boulevard, design alternatives were limited.

Because the project is water dependent and includes ramp and dock construction, complete avoidance is not feasible. By avoiding jurisdictional areas during parking improvements, utility installation, and building renovation, and minimizing impacts during access improvements, boat ramp construction and floating dock installation, the applicant has avoided impacts to the greatest extent practicable while satisfying the overall project purpose.

6.0 BUFFER VARIANCE:

The proposed project requires land disturbing activities within 25 feet of State Waters. Chatham County, as the Local Issuing Authority, has determined that the project will require a buffer variance from the Environmental Protection Division (EPD). The applicant is currently preparing the buffer variance application for submittal and EPD authorization will be obtained prior to initiation of construction activities.

7.0 PROJECT JUSTIFICATION:

The proposed project includes improvement and expansion of an existing Chatham County recreational boat ramp facility. The project is necessary to accommodate the current volume of public traffic and is intended to improve public water access for public recreational purposes. In addition, the project will improve the overall condition of the site by incorporating stormwater management including dry dentition basins and erosion control measures such as bio engineering/oyster bags. These measures will benefit the adjacent wetlands and receiving water bodies.

8.0 COMPENSATORY MITIGATION:

As indicated above, both temporary and permanent impacts are associated with the project. Since the project will only result in loss of 0.03 acre of vegetated wetland (salt marsh wetland associated with access and facility improvements) and all other vegetated wetland impacts are temporary and allowed to naturally re-vegetate, no compensatory mitigation is proposed for the project.

9.0 ESSENTIAL FISH HABITAT:

The proposed project is located in a coastal tidal river, which has been identified as essential fish habitat for the shrimp, red drum, and snapper-grouper complexes and does require a small acreage of impact to essential fish habitat. However, the proposed bank stabilization, stormwater management design and overall site improvements will off-set any of the minor project related and unavoidable impacts.

10.0 THREATENED AND ENDANGERED SPECIES:

RLC conducted a threatened and endangered species survey to determine the potential occurrence of animal and plant species (or their preferred habitats) currently listed as threatened or endangered by state and federal regulations [Federal Endangered Species Act of 1973 (16 USC 1531-1543)]. The U.S. Fish and Wildlife Service (USFWS) lists the following plant and animal species as endangered or threatened in Chatham County, Georgia (Appendix E):

PLANTS
Pondberry *(Lindera melissifolia)*
MAMMALS
Humpback Whale (*Megaptera novaeanglie*)
Northern Atlantic Right Whale *(Eubalaena glacialis)*
Manatee *(Trichechus manatus)*
BIRDS
Bachman's Warbler (*Vermivora bachmanii*)
Piping Plover *(Charadrius melodus)*
Red-Cockaded Woodpecker *(Picoides borealis)*
Wood Stork *(Mycteria americana)*
REPTILES
Eastern Indigo Snake (*Drymarchon corais couperi*)
Green Sea Turtle *(Chelonia mydas)*
Hawksbill Sea Turtle (*Eretmochelys imbricate*)
Kemp's Ridley Sea Turtle *(Lepidochelys kempii)*
Leatherback Sea Turtle *(Dermochelys coriacea)*
Loggerhead Sea Turtle *(Caretta caretta)*
AMPHIBIAN
Flatwoods Salamander *(Ambystoma cingulatum)*
FISH
Shortnose Sturgeon *(Acipenser brevirostrum)*

Although the upland area associated with the project does not contain habitat required to support any listed species, the proposed project will require work in tidal waters. Several protected species frequent coastal waters of Georgia, including the Northern Right Whale (*Eubalaena glacialis*), West Indian Manatee (*Trichechus manatus*), five species of sea turtle, and the Shortnose Sturgeon (*Acipenser brevironstrum*). The following provides a brief discussion on the projects potential affect on these species.

10.1 West Indian Manatee

The proposed project is located in a coastal tidal river, which provides habitat for the West Indian Manatee. The project does have the potential to affect the manatee during removal of existing dock structures and installation of the new dock and boat ramp. However, all construction activities will be conducted in accordance with established federal manatee protection guidelines to minimize potential hazards. Post construction operation of the facility will include adherence to the standard manatee conditions and a maintenance plan that will provide for routine inspection of any freshwater sources that could potentially attract manatees. Through the implementation of these guidelines, it is anticipated that potential impacts to manatees will be minimal.

10.2 Northern Right Whale

The proposed project will improve existing public recreational facilities for Georgia residents. Since the project will not increase operation of vessels in off shore waters, the proposed project will have no impact on the Northern Right Whale.

10.3 Sea Turtles

The coastal waters near the proposed facilities also harbor several species of sea turtles, including the Loggerhead (*Caretta caretta*), Hawksbill (*Eretmochelys imbricata*), Kemp's ridley (*Lepidochelys kempii*), Green (*Chelonia mydas*) and Leatherback (*Dermochelys coriacea*). The Loggerhead is the only species that routinely nests on Georgia's barrier islands. The other species travel through Georgia waters on their way to tropical nesting locations to the south.

Threats to sea turtles have been identified and separated into two categories: threats to nesting environments and threats to the marine environment. The project is located well inland and within the existing commercial section of the Savannah River and will have no affect on these species. However, in order to avoid any potential affect on sea turtles, the applicant will post and distribute educational materials to all employees to raise awareness of the potential threats to sea turtles.

10.4 Shortnose Sturgeon

The Shortnose Sturgeon is found in Atlantic seaboard rivers, primarily in Georgia in the Altamaha, Ogeechee, and Savannah Rivers. Threats to the sturgeon include construction of dams, pollution leading to loss of habitat, habitat alterations from discharges, dredging or disposal of material into rivers, related development activities involving estuarine/riverine mudflats and marshes, and past commercial exploitation. Because the project includes improvements to an existing public ramp facility on Turners Creek and will not impact or alter habitat critical to the sturgeon, no impacts to this species are anticipated.

11.0 CULTURAL RESOURCES

The project includes improvements to existing boat ramp facilities. Due to the current condition of the site and proposed activities, no impacts to sites listed or eligible for listing is anticipated. A copy of the NRHP information is provided in Appendix F.

12.0 COMMERCIAL BAIT SHRIMP, OYSTER, AND CRABBING AREAS

The proposed project is located in a designated bait shrimp zone according to Georgia Department of Natural Resources *Commercial and Recreational Bait Shrimp Zones, Coastal Georgia* map. The project area is not listed on the *Georgia Harvester Reported Crabbing Areas* list, and the project area is not located in designated commercial or recreational oyster harvest areas.

13.0 IMPAIRED WATERS

Turners Creek is not listed on the U.S. Environmental Protection Agency 303(d) list for impaired water bodies (Appendix G).

14.0 SUPPLEMENTAL INFORMATION

This additional information is provided for compliance with Coastal Marshlands Protection Act of 1970 information requirements:

OCGA 12-5-286. Permits to fill, drain, etc., marshlands.
(b) Each application for such permit shall be, properly executed, filed with the department on forms as prescribed by the department, and shall include:

(1) The name and address of the applicant-
Chatham County Department of Engineering
Attn: A.G. Bungard
Post Office Box 8161
Savannah, Georgia 31412-8161

(2) ***A plan or drawing showing the applicant's proposal and the manner or method by which such proposal shall be accomplished. Such plan shall identify the coastal marshlands affected-*** Please refer to attached drawings produced by Thomas & Hutton (Appendix D).

(3) ***A plat of the area in which the proposed work will take place-*** See Appendix H.

(4) ***A copy of the deed or other instrument under which the applicant claims title to the property or, if the applicant is not the owner, then a copy of the deed or other instrument under which the owner claims title together with written permission from the owner to carry out the project on his land. In lieu of a deed or other instrument referred to in this paragraph, the committee may accept some other reasonable evidence of ownership of the property in question or other lawful authority to make use of the property; The committee will not adjudicate title disputes concerning the property which is the subject of the application; provided, however, the committee may decline to process an application when submitted documents show conflicting deeds-*** Deeds for subject property and referenced plat is included in Appendix H.

(5) ***A list of all adjoining landowners together with such owners' addresses, provided that if the names or addresses of adjoining landowners cannot be determined, the applicant shall file in lieu thereof a sworn affidavit that a diligent search, including, without limitation, a search of the records for the county tax assessor's office, has been made but that the applicant was not able to ascertain the names or addresses, as the case may be, of adjoining landowners-*** Adjacent landowner information is provided in Appendix I.

(6) ***A letter from the local governing authority of the political subdivision in which the property is located, stating that the applicant's proposal is not in violation of any zoning law;*** The proposed plans have been submitted by the Chatham County Zoning Department and a copy of the submittal is included in Attachment I.

(7) ***A non-refundable application fee to be set by the board in an amount necessary to defray the administrative cost of issuing such permit. Renewal fees shall be equal to application fees, which shall not exceed $1,000.00 for any one proposal and shall be paid to the department.*** Check for $500.00 is attached.

(8) ***A description from the applicant of alternative sites and why they are not feasible and a discussion of why the permit should be granted-*** Please refer to Section 5.0 for alternative analysis.

(9) ***A statement from the applicant that he has made inquiry to the appropriate authorities that the proposed project is not over a landfill or hazardous waste site and that the site is otherwise suitable for the proposed project-*** A review of the Hazardous Site Index for Chatham County, Georgia indicates that the subject property does not contain hazardous waste sites or landfills. A copy is provided in Appendix J.

(10) ***A copy of the water quality certification issued by the department if required for the proposed project-*** A copy of this package was provided to EPD and a copy of the Water Quality Certification will be submitted to both the USACE and CRD if required.

(11) ***Certification by the applicant of adherence to soil and erosion control responsibilities if required for the proposed project-*** The project will conform to all required building, land

disturbing, and stormwater management permits as required by the Chatham County, Georgia.

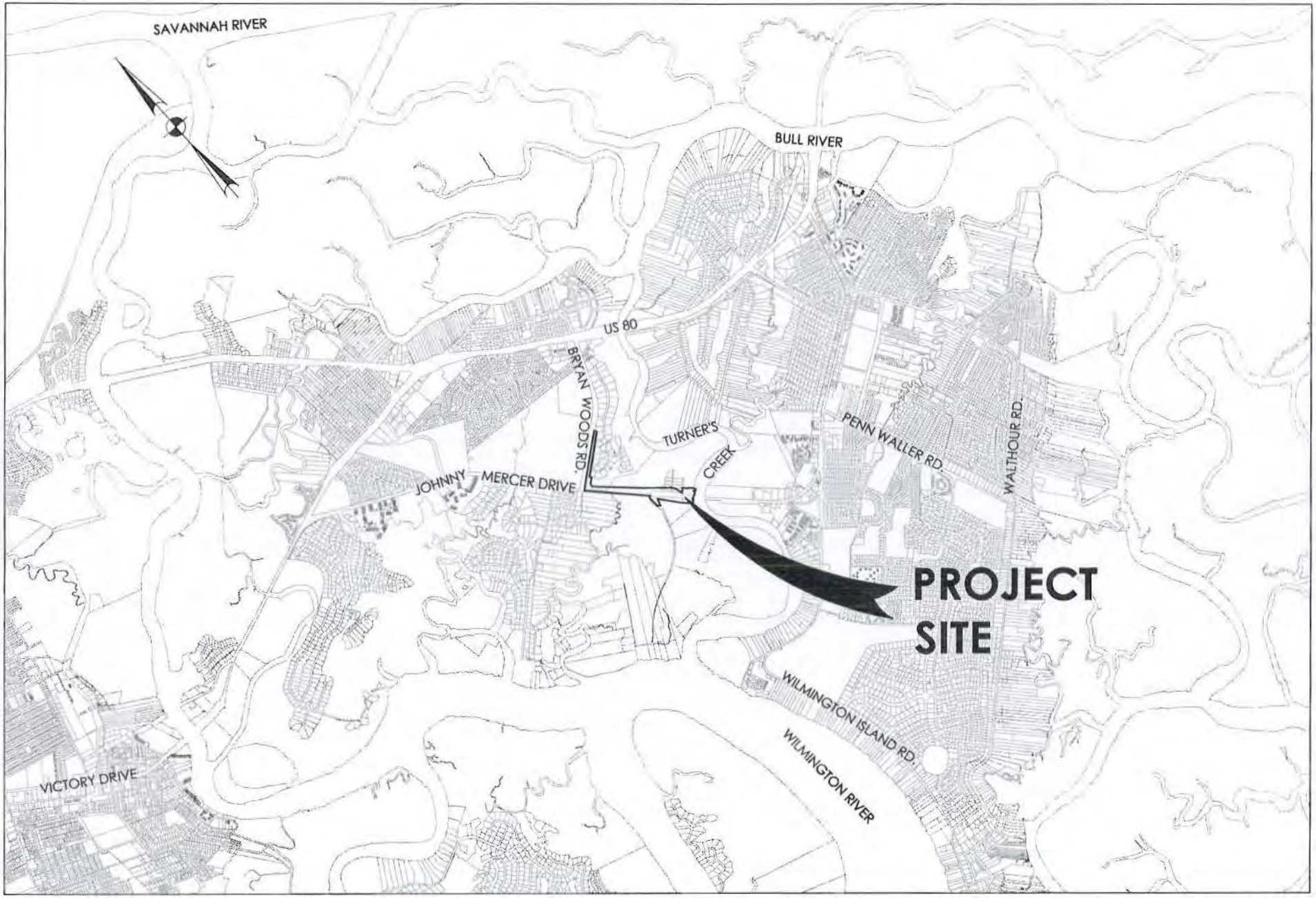
(12) Such additional information as is required by the committee to properly evaluate the application- This application has been prepared with consideration for the interests of the general public of the State of Georgia as defined in OCGA 12-5-286(g): OCGA 12-5-286. Permits to fill, drain, etc. marshlands.

(g) In passing upon the application for permit, the committee shall consider the public interest, which, for purposes of this part shall be deemed to be the following considerations:

(1) Whether or not unreasonably harmful obstruction to or alteration of the natural flow of navigational water within the affected area will arise as a result of the proposal- The proposed project will not alter natural flow of navigable waters or obstruct public navigation.

(2) Whether or not unreasonably harmful or increased erosion shoaling of channels, or stagnant areas of water will be created- The proposed public boat ramp improvements project will not increase erosion, shoaling of channels, or create stagnant areas of water.

(3) Whether or not the granting of a permit and the completion of the applicant's proposal will unreasonably interfere with the conservation of fish, shrimp, oysters, crabs, clams, or other marine life, or wildlife, or other resources, including but not limited to water and oxygen supply- The proposed structures associated with the public boat ramp and recreational facilities will not interfere with the conservation of fish, shrimp, oysters, crabs, clams, or other marine life, or wildlife, or other resources, nor affect water and oxygen supply.



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TURNER'S CREEK BOAT RAMP IMPROVEMENTS
LOCATION MAP

DATE: JULY 13, 2011
JOB NO.: J-23036
SHEET 1 OF 21
SCALE: N.T.S.
DATUM: NAVD88

PROPOSED ACTIVITY:
TURNER'S CREEK BOAT RAMP IMPROVEMENTS
PROJECT LOCATION:
CHATHAM COUNTY, GA
APPLICANT:
BOARD OF COMMISSIONERS OF CHATHAM COUNTY

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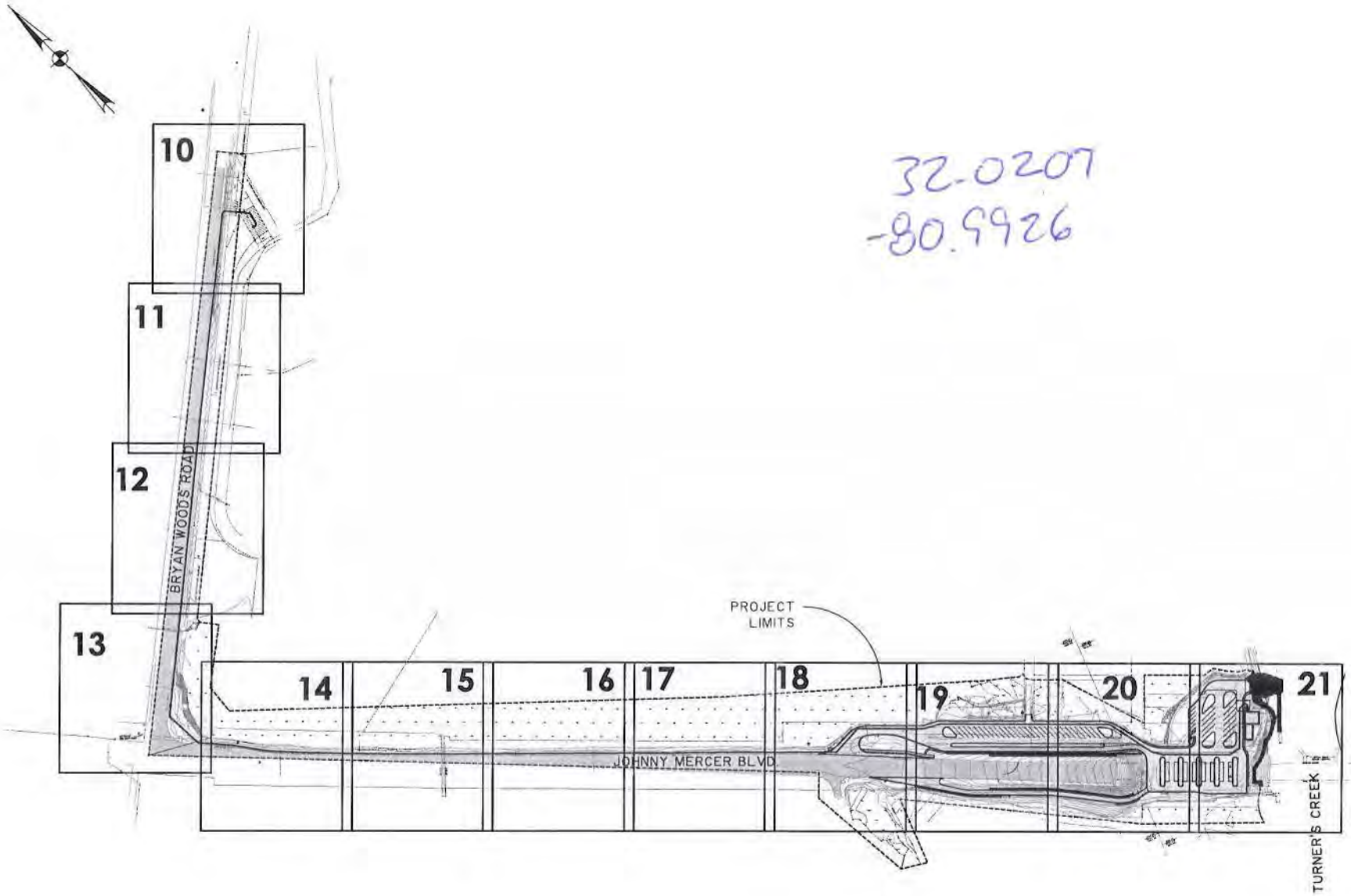

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TURNER'S CREEK BOAT RAMP IMPROVEMENTS
SHEET LAYOUT

DATE: JULY 13, 2011
JOB NO.: J-23036
SHEET 2 OF 21
SCALE: N.T.S.
DATUM: NAVD88

PROPOSED ACTIVITY:
TURNER'S CREEK BOAT RAMP IMPROVEMENTS
PROJECT LOCATION:
CHATHAM COUNTY, GA
APPLICANT:
BOARD OF COMMISSIONERS OF CHATHAM COUNTY

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LEGEND

PROJECT AREA

JURISDICTIONAL SALT MARSH & SALTWATER	10.91 ACRES
JURISDICTIONAL FRESHWATER WETLANDS	0.88 ACRES
FRESHWATER NON-TIDAL WETLANDS	0.09 ACRES

TOTAL PROJECT WETLANDS AREA EQUALS	11.88 ACRES
TOTAL PROJECT UPLANDS AREA EQUALS	14.79 ACRES
TOTAL PROJECT AREA EQUALS	26.67 ACRES

PROJECT IMPACTS

FILL

PERMANENT SALT MARSH IMPACTS	0.03 ACRES
TEMPORARY SALT MARSH IMPACTS	0.22 ACRES
TEMPORARY FRESHWATER WETLAND IMPACTS	0.02 ACRES
PERMANENT SALTWATER IMPACT	0.11 ACRES
TEMPORARY SALTWATER IMPACT	0.11 ACRES
BANK STABILIZATION & MAINTENANCE AREA	0.15 ACRES
TOTAL WETLAND IMPACTS	0.64 ACRES

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TURNER'S CREEK BOAT RAMP IMPROVEMENTS
PROJECT IMPACTS

DATE: JULY 13, 2011
JOB NO.: J-23036
SHEET 3 OF 21
SCALE: N.T.S.
DATUM: NAVD88

PROPOSED ACTIVITY:
TURNER'S CREEK BOAT RAMP IMPROVEMENTS
PROJECT LOCATION:
CHATHAM COUNTY, GA
APPLICANT:
BOARD OF COMMISSIONERS OF CHATHAM COUNTY

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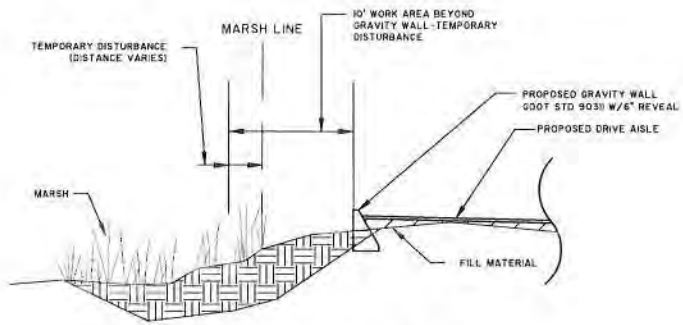
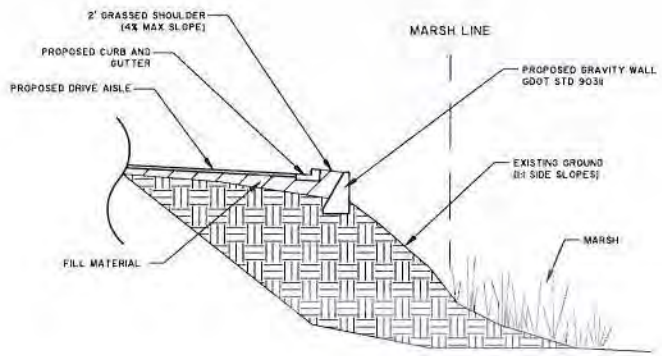


SECTION A-A



SECTION B-B

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TURNER'S CREEK BOAT RAMP IMPROVEMENTS
TYPICAL SECTIONS

DATE: JULY 13, 2011
JOB NO.: J-23036
SHEET 4 OF 21
SCALE: N.T.S.
DATUM: NAVD88

PROPOSED ACTIVITY:
TURNER'S CREEK BOAT RAMP IMPROVEMENTS
PROJECT LOCATION:
CHATHAM COUNTY, GA
APPLICANT:
BOARD OF COMMISSIONERS OF CHATHAM COUNTY

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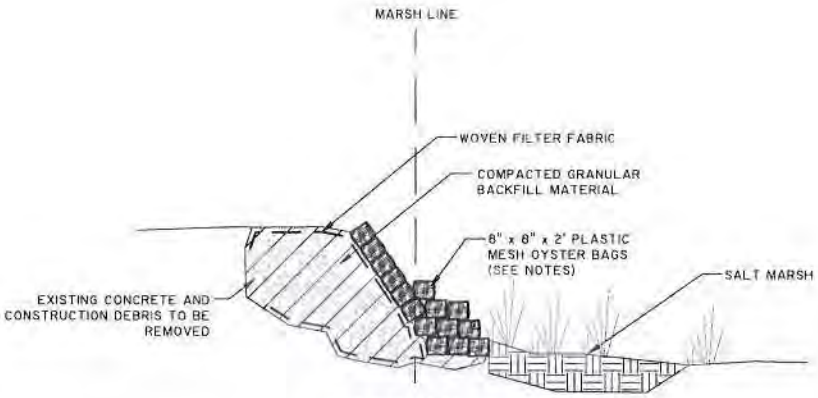

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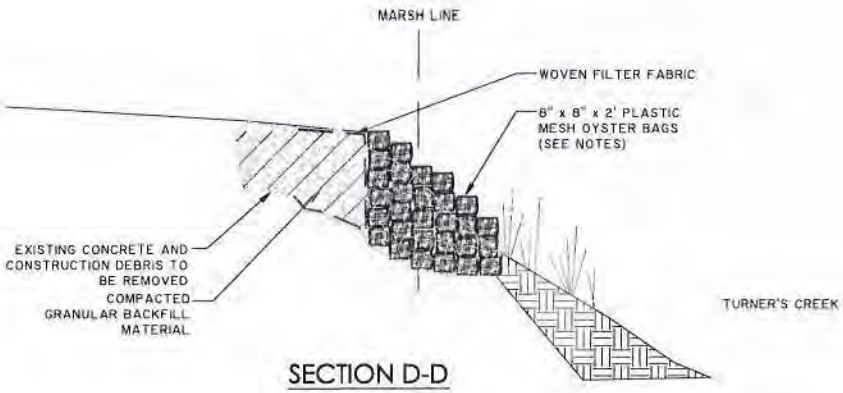

SECTION D-D

BANK STABILIZATION NOTES

1. BACKFILL MATERIAL IS TO BE CLEAN GRANULAR MATERIAL MEETING THE UNIFIED SOIL CLASSIFICATION SOIL TYPE GW, GP, GM, SW, SP, OR SC FURNISHED AND INSTALLED BY THE CONTRACTOR FROM OFF-SITE SOURCES. BACKFILL SHALL BE COMPACTED TO 90% MAXIMUM DRY DENSITY (STANDARD PROCTOR) FOR THE UPPER 18 INCHES OF THE FILL SECTION.
2. FILTER FABRIC TO BE WOVEN GEOTEXTILE MIRAFI HP570 OR APPROVED EQUAL.
3. CONTRACTOR IS TO REMOVE ALL DEBRIS IN THE WORK AREAS THAT MAY ADVERSELY IMPACT THE INTEGRITY OF THE REPAIRS TO BE PERFORMED INCLUDING, BUT NOT LIMITED TO, TRASH, BRICK AND CONCRETE REMNANTS, TIMBER LOGS AND DEBRIS. MATERIAL IS TO BE REMOVED AND DISPOSED OF OFF-SITE.
4. OYSTER BAGS ARE TO BE 8" x 8" x 2' PLASTIC MESH BAGS CONTAINING CURED & RINSED OYSTER SHELLS WITH A DILUTED BLEACH WATER AND DRIED THOROUGHLY. OYSTER BAG SYSTEM TO BE PROVIDED AND INSTALLED BY THE CONTRACTOR. THE CONTRACTOR SHALL PROVIDE WITH HIS BID THE NAME OF ALL SUBCONTRACTORS, INCLUDING OYSTER BAG SUPLIER/INSTALLER, TO BE USED ON THIS PROJECT.

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TURNER'S CREEK BOAT RAMP IMPROVEMENTS
TYPICAL SECTIONS

DATE: JULY 13, 2011
JOB NO.: J-23036
SHEET 5 OF 21
SCALE: N.T.S.
DATUM: NAVD88

PROPOSED ACTIVITY:
TURNER'S CREEK BOAT RAMP IMPROVEMENTS
PROJECT LOCATION:
CHATHAM COUNTY, GA
APPLICANT:
BOARD OF COMMISSIONERS OF CHATHAM COUNTY

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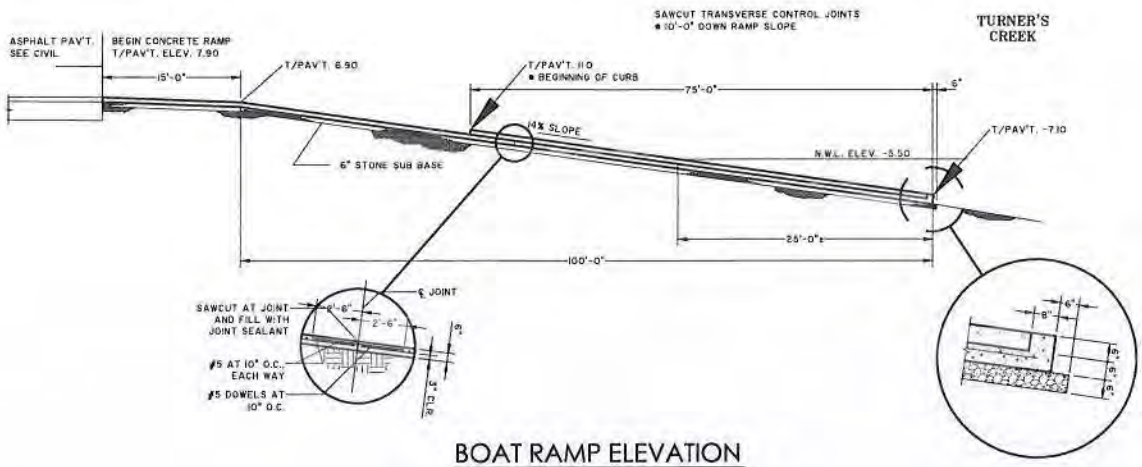
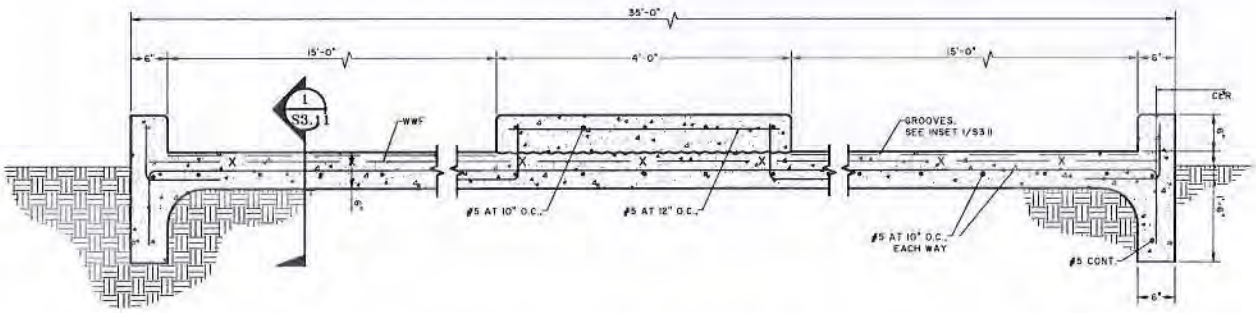


BOAT RAMP ELEVATION



SECTION THRU RAMP

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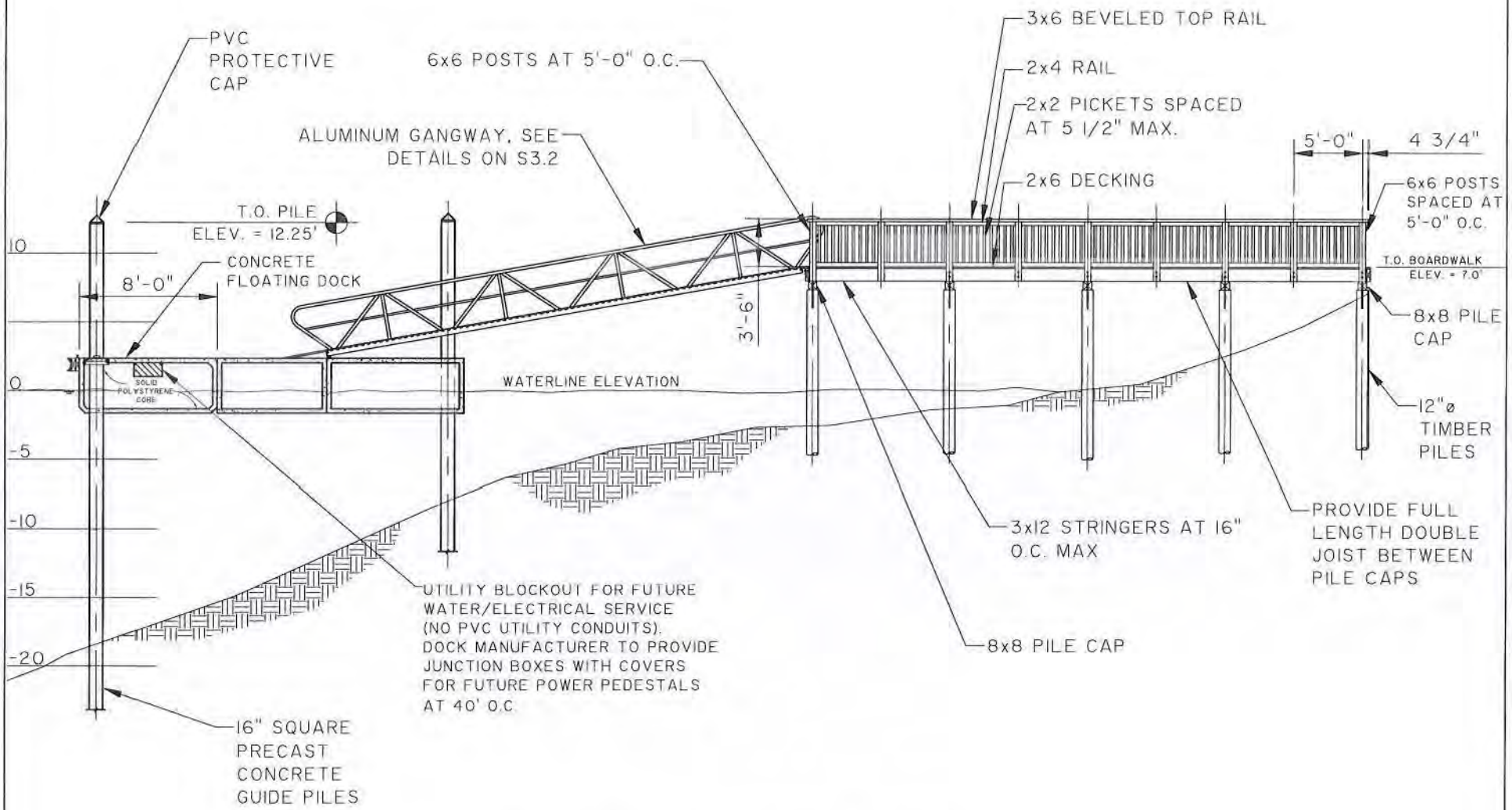
TURNER'S CREEK BOAT RAMP IMPROVEMENTS
BOAT RAMP DETAIL

DATE: JULY 13, 2011
JOB NO.: J-23036
SHEET 6 OF 21
SCALE: N.T.S.
DATUM: NAVD88

PROPOSED ACTIVITY:
TURNER'S CREEK BOAT RAMP IMPROVEMENTS
PROJECT LOCATION:
CHATHAM COUNTY, GA
APPLICANT:
BOARD OF COMMISSIONERS OF CHATHAM COUNTY



DOCK AND WALKWAY ELEVATION

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TURNER'S CREEK BOAT RAMP IMPROVEMENTS
DOCK DETAIL

DATE: JULY 13, 2011
JOB NO.: J-23036
SHEET 7 OF 21
SCALE: N.T.S.
DATUM: NAVD88

PROPOSED ACTIVITY:
TURNER'S CREEK BOAT RAMP IMPROVEMENTS
PROJECT LOCATION:
CHATHAM COUNTY, GA
APPLICANT:
BOARD OF COMMISSIONERS OF CHATHAM COUNTY

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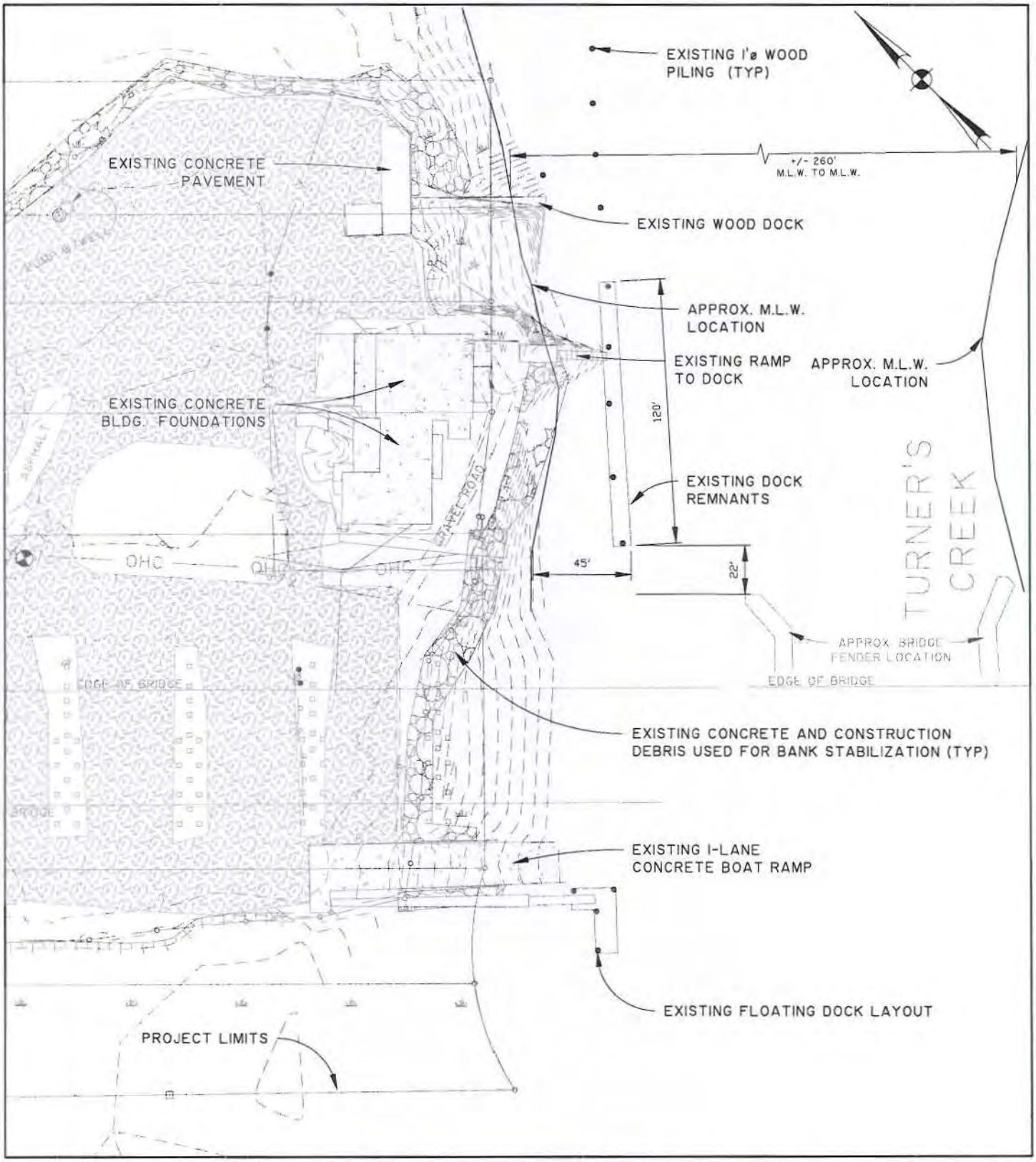

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TURNER'S CREEK BOAT RAMP IMPROVEMENTS

PROPOSED ACTIVITY:

MARSH AND WETLAND IMPACT PLAN

CLIENT:

BOARD OF COMMISSIONERS OF CHATHAM COUNTY

LOCATION: CHATHAM COUNTY, GEORGIA
DATE: JULY 13, 2011
JOB NUMBER: J - 23036
SHEET: 8 OF 21
SCALE: 1:60

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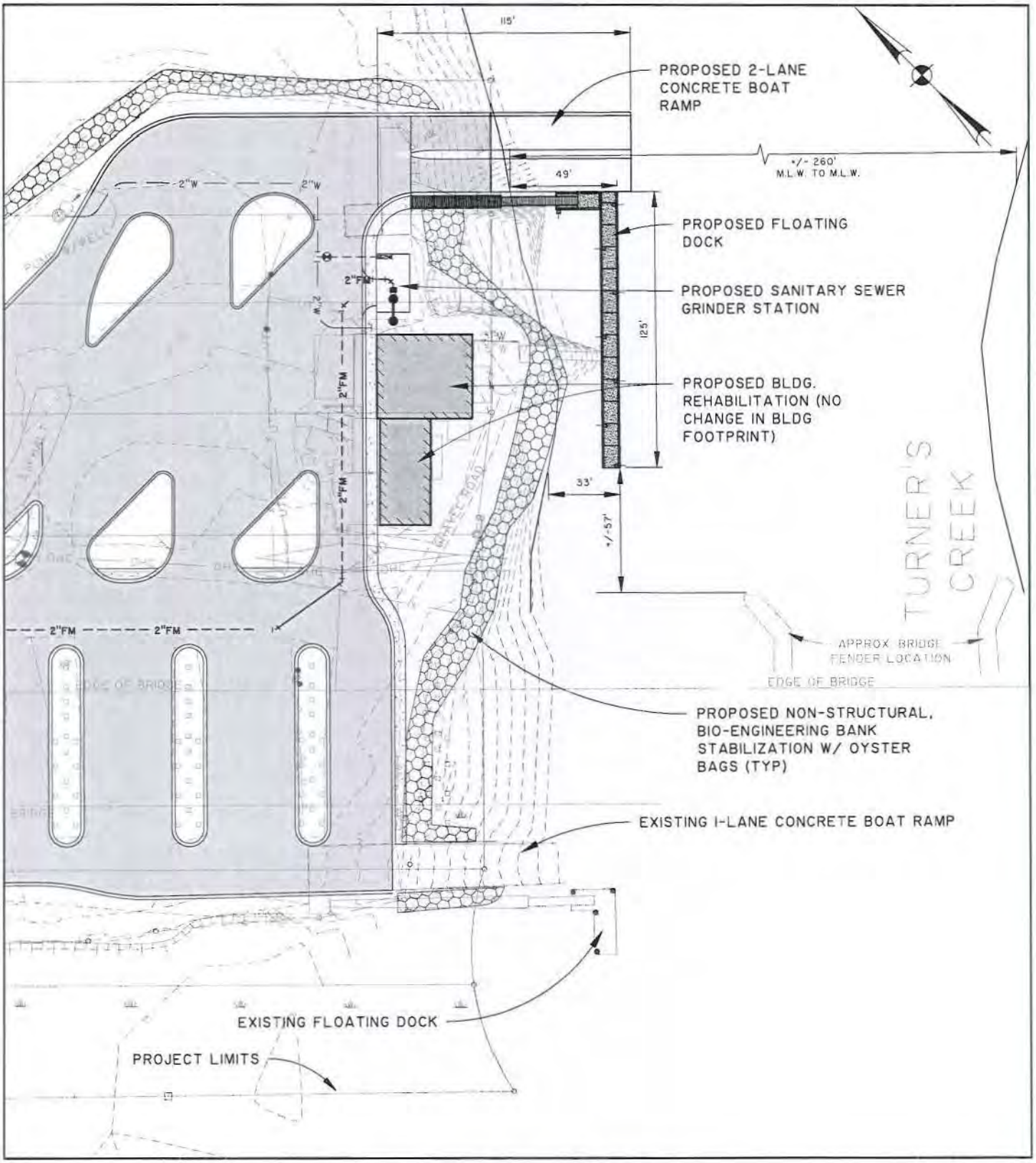

TURNER'S CREEK BOAT RAMP IMPROVEMENTS

PROPOSED ACTIVITY:

MARSH AND WETLAND IMPACT PLAN

CLIENT:

BOARD OF COMMISSIONERS OF CHATHAM COUNTY

LOCATION: CHATHAM COUNTY, GEORGIA
DATE: JULY 13, 2011
JOB NUMBER: J - 23036
SHEET: 9 OF 21
SCALE: 1:60

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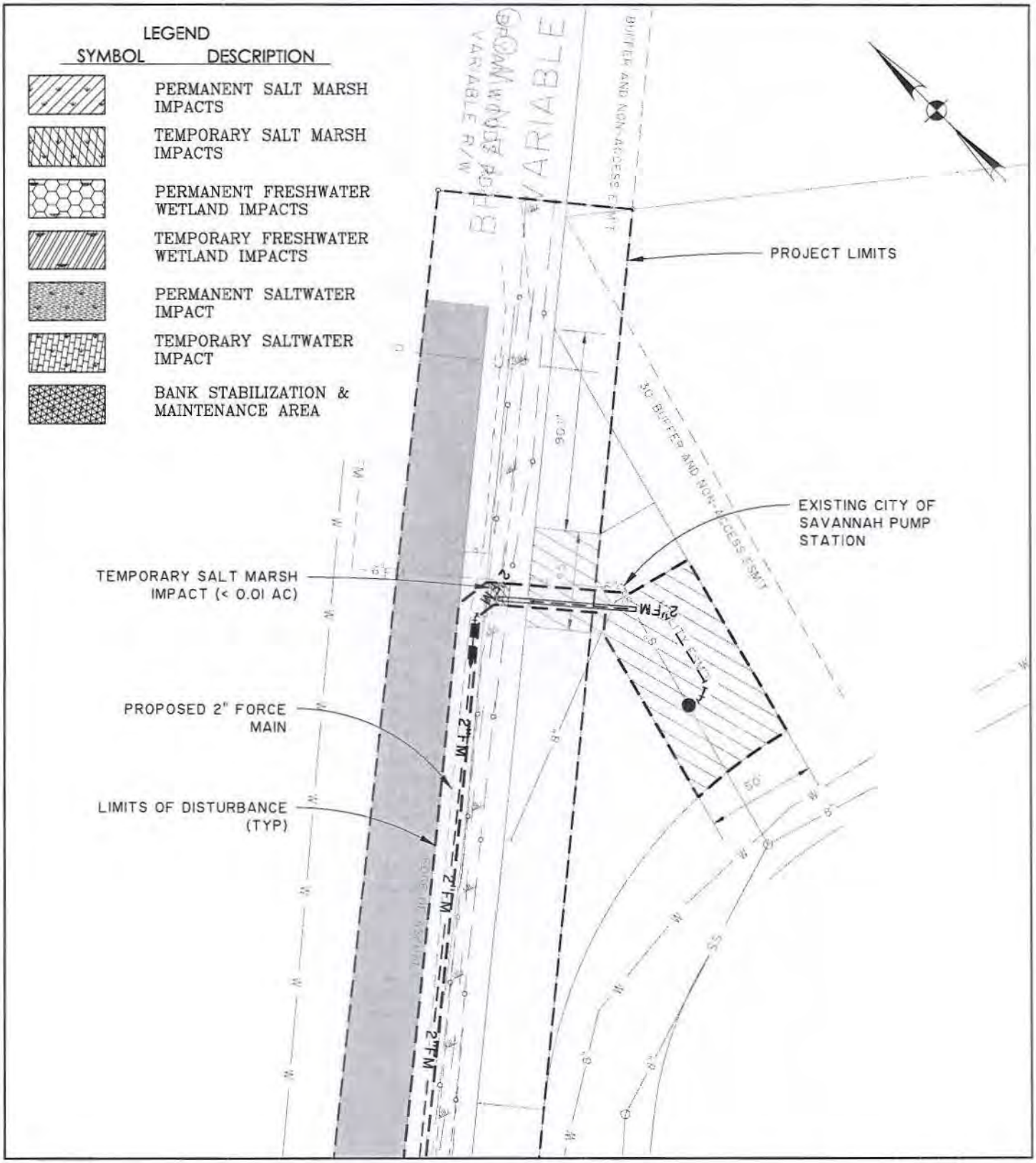

TURNER'S CREEK BOAT RAMP IMPROVEMENTS

PROPOSED ACTIVITY:

MARSH AND WETLAND IMPACT PLAN

CLIENT:

BOARD OF COMMISSIONERS OF CHATHAM COUNTY

LOCATION: CHATHAM COUNTY, GEORGIA
DATE: JULY 13, 2011
JOB NUMBER: J - 23036

SHEET: 10 OF 21
SCALE: 1:60

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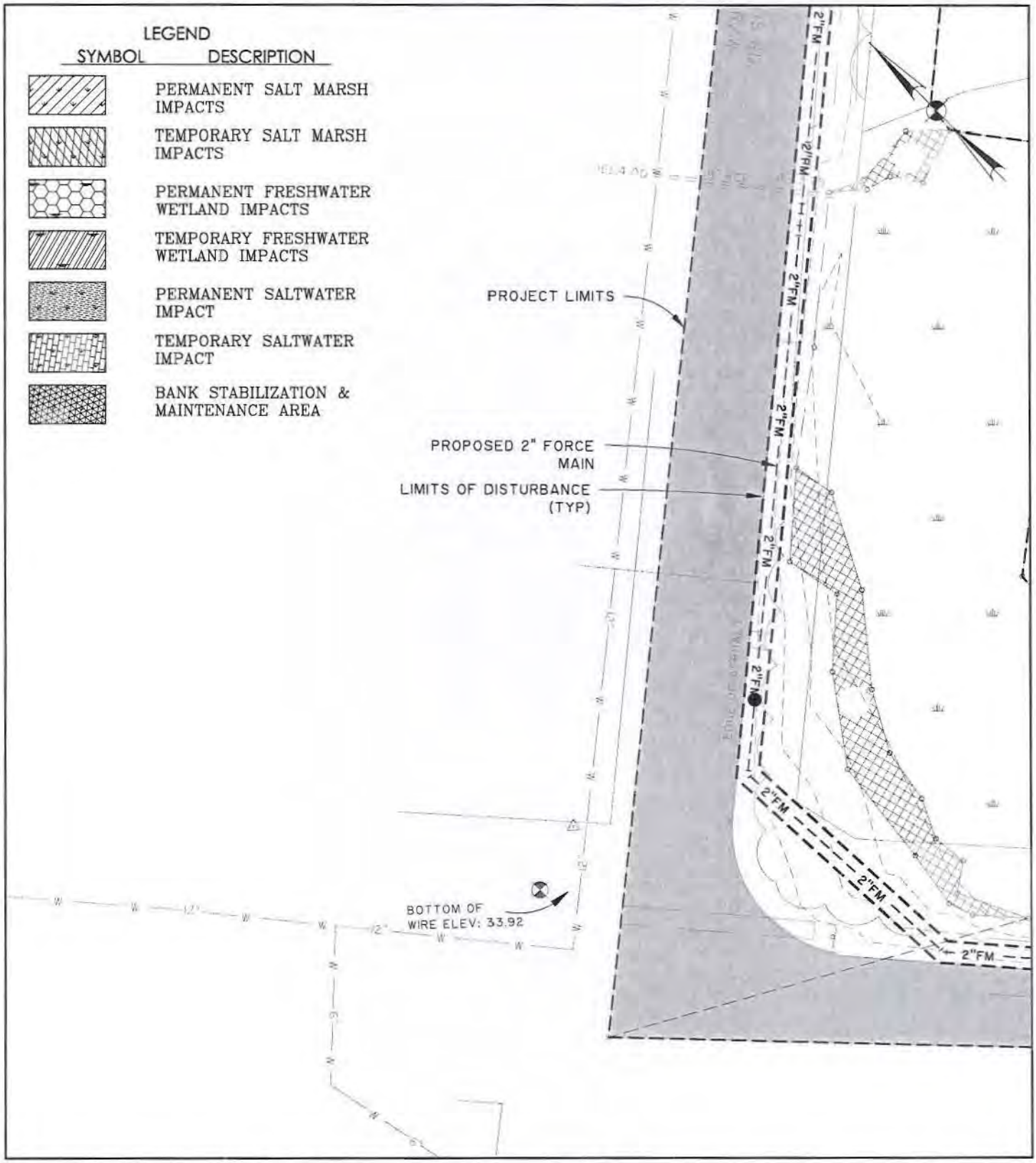

TURNER'S CREEK BOAT RAMP IMPROVEMENTS

PROPOSED ACTIVITY:

MARSH AND WETLAND IMPACT PLAN

CLIENT:

BOARD OF COMMISSIONERS OF CHATHAM COUNTY

LOCATION: CHATHAM COUNTY, GEORGIA
DATE: JULY 13, 2011
JOB NUMBER: J - 23036

SHEET: 13 OF 21
SCALE: 1:60

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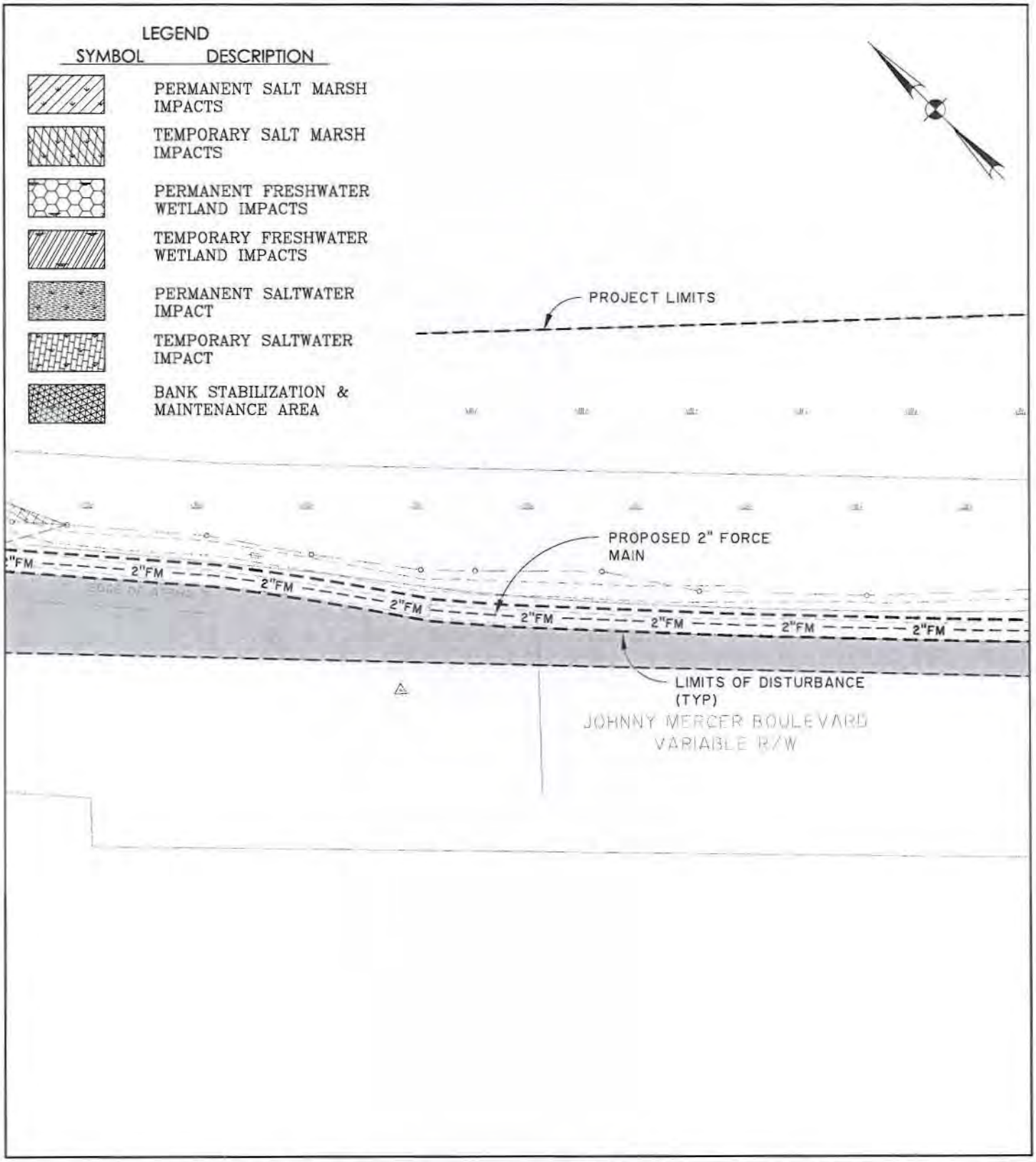

TURNER'S CREEK BOAT RAMP IMPROVEMENTS

PROPOSED ACTIVITY:

MARSH AND WETLAND IMPACT PLAN

CLIENT:

BOARD OF COMMISSIONERS OF CHATHAM COUNTY

LOCATION: CHATHAM COUNTY, GEORGIA

DATE: JULY 13, 2011 SHEET: 14 OF 21

JOB NUMBER: J - 23036 SCALE: 1:60

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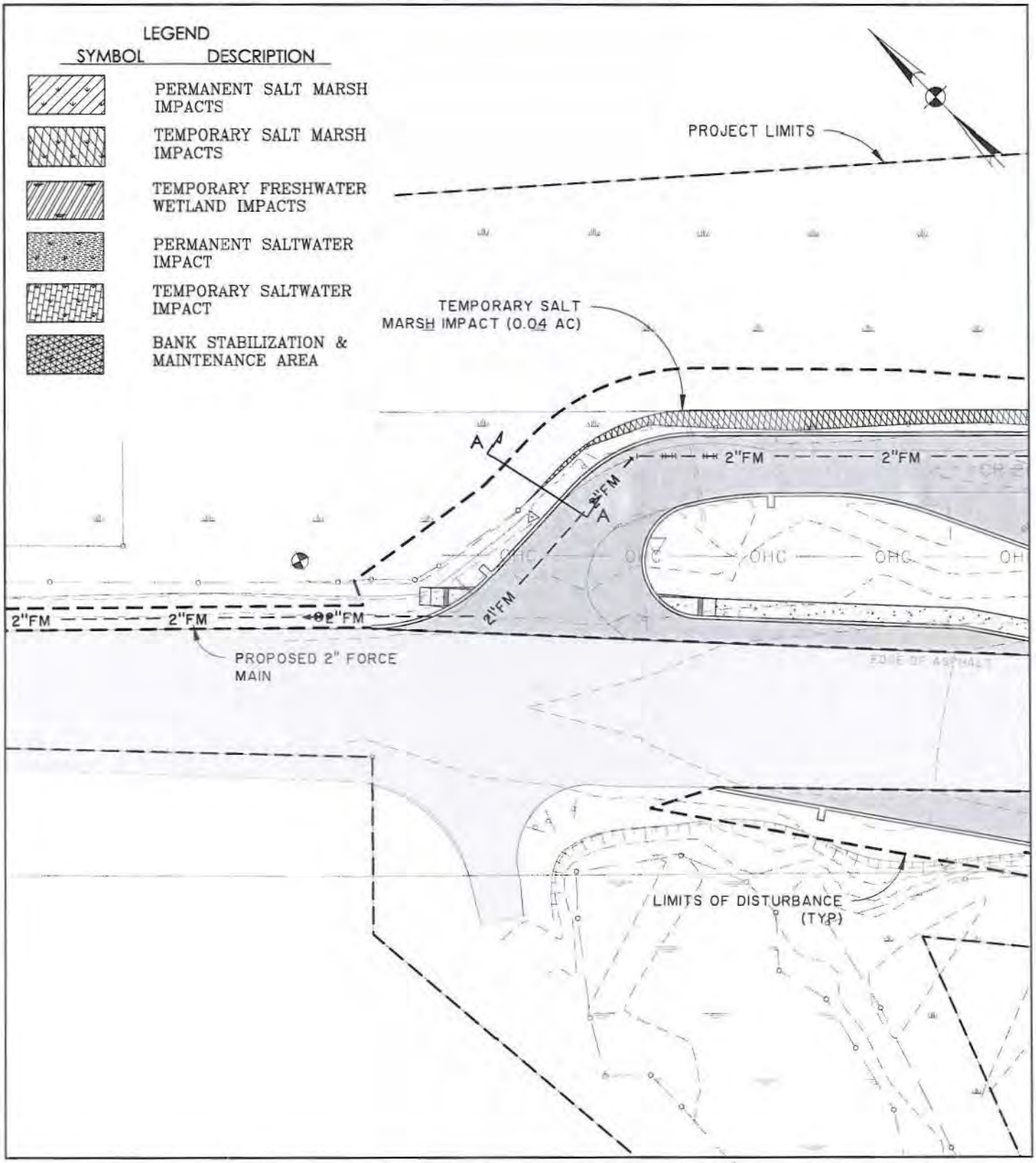

TURNER'S CREEK BOAT RAMP IMPROVEMENTS

PROPOSED ACTIVITY:

MARSH AND WETLAND IMPACT PLAN

CLIENT:

BOARD OF COMMISSIONERS OF CHATHAM COUNTY

LOCATION: CHATHAM COUNTY, GEORGIA
DATE: JULY 13, 2011
JOB NUMBER: J - 23036
SHEET: 18 OF 21
SCALE: 1:60

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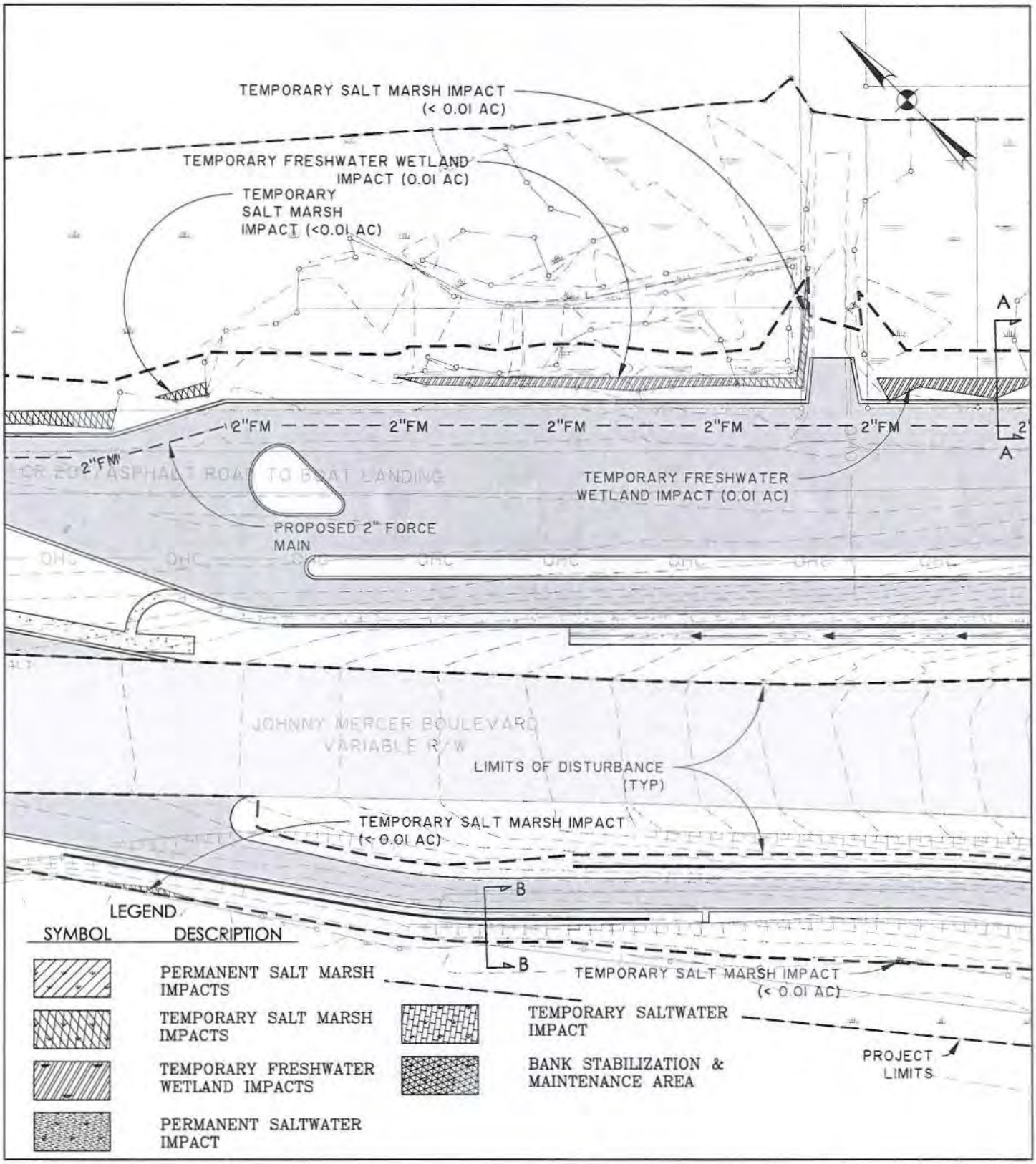

TURNER'S CREEK BOAT RAMP IMPROVEMENTS

PROPOSED ACTIVITY:

MARSH AND WETLAND IMPACT PLAN

CLIENT:

BOARD OF COMMISSIONERS OF CHATHAM COUNTY

LOCATION: CHATHAM COUNTY, GEORGIA
DATE: JULY 13, 2011
JOB NUMBER: J - 23036
SHEET: 19 OF 21
SCALE: 1:60

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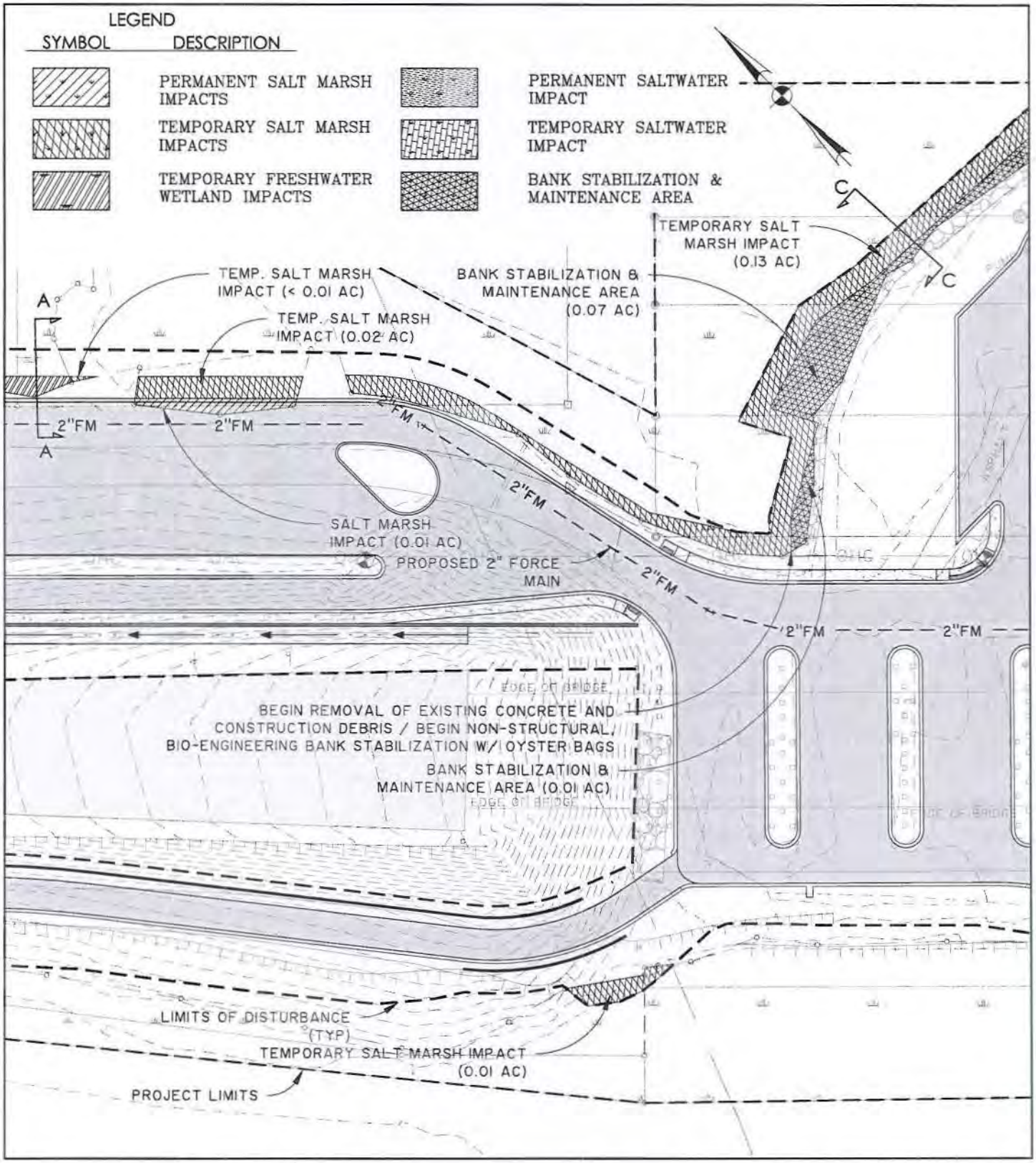

TURNER'S CREEK BOAT RAMP IMPROVEMENTS

PROPOSED ACTIVITY:

MARSH AND WETLAND IMPACT PLAN

CLIENT:

BOARD OF COMMISSIONERS OF CHATHAM COUNTY

LOCATION: CHATHAM COUNTY, GEORGIA
DATE: JULY 13, 2011
JOB NUMBER: J - 23036
SHEET: 20 OF 21
SCALE: 1:60

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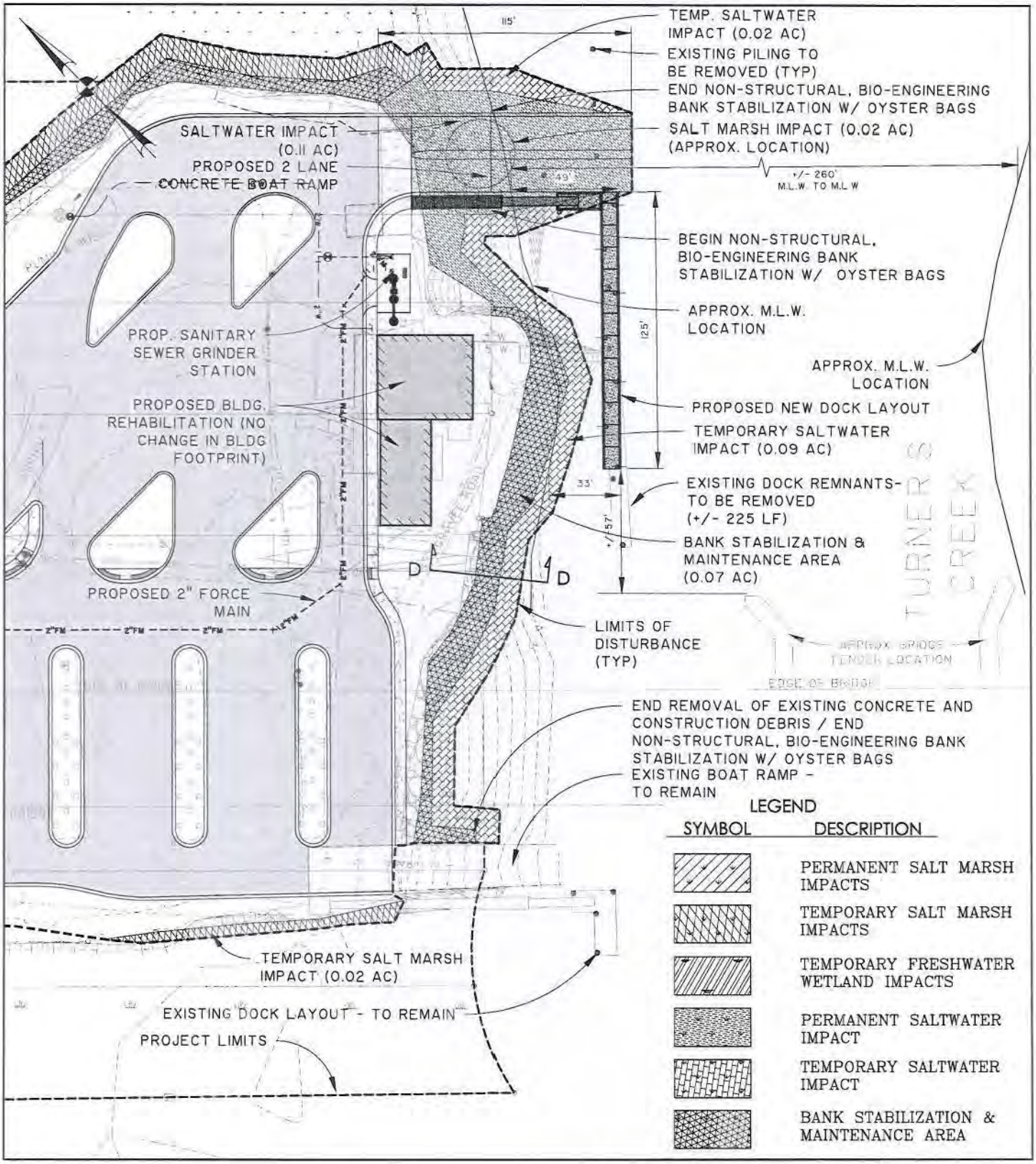

TURNER'S CREEK BOAT RAMP IMPROVEMENTS

PROPOSED ACTIVITY:

MARSH AND WETLAND IMPACT PLAN

CLIENT:

BOARD OF COMMISSIONERS OF CHATHAM COUNTY

LOCATION: CHATHAM COUNTY, GEORGIA
DATE: JULY 13, 2011
JOB NUMBER: J - 23036
SHEET: 21 OF 21
SCALE: 1:60

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