



COASTAL RESOURCES DIVISION  
ONE CONSERVATION WAY • BRUNSWICK, GA 31520 • 912.264.7218  
COASTALGADNR.ORG

MARK WILLIAMS  
COMMISSIONER

DOUG HAYMANS  
DIRECTOR

SEP 4 2020

Shandra Thompson  
123 Osprey Cove Drive  
St. Mary's, Georgia 31558

**RE: Letter of Permission (LOP) and Revocable License (RL), Osprey Cove Owner's Association, Maintenance of an Existing Bridge within Coastal Marshlands Protection Act (CMPA) Jurisdiction, CMPA Permit #376, Isles of St. Mary's Way, Camden County, Georgia. (GPS: 30.745260°/-81.599739°)**

Dear Ms. Thompson:

This Letter of Permission (LOP) is in response to your request dated July 13, 2020 on behalf of Osprey Cove Owner's Association to perform maintenance to an existing bridge on Isles of St. Mary's Way, Camden County, Georgia. The proposed project includes installing fiberglass jackets around 35 wooden pilings that support the bridge. The activities involved with the maintenance include placing construction mats along the bridge through the marsh to provide a stable area for workers to stand and utilize hand tools, excavating approximately 1 cubic yard of material from around each piling to uncover the damaged piling, installing the fiberglass jacket and lining the space between the piling and jacket with epoxy grout, and replacing the excavated material around the jacket encased piling. The temporarily excavated material around the pilings will be stored on the upland until it is replaced to the original locations. All work must be completed by the use of hand tools, or the use of heavy equipment operated from the upland. No heavy equipment is authorized within Coastal Marshlands Protection Act jurisdiction. The excavated material shall be replaced to attain the previously existing topography and footprint within jurisdiction. The project will begin no sooner than 15 days from the date of this letter and be completed within 6 months of issuance of this letter.

No unauthorized equipment, materials, or debris may be placed in, disposed of, or stored in jurisdictional areas. All material removed must be disposed of at an appropriate upland disposal area. Any visible alterations in marsh topography will be restored immediately using low-impact hand tools. Any damage to the marsh vegetation that has not recovered naturally during the next growing season will be repaired by a method acceptable to the Department.

Please find enclosed a copy of the Revocable License which serves as authorization to utilize state owned tidal water bottoms for your project, as per the dimensions and configuration described. Any change in the use, location, dimensions, or configuration of the approved project, without prior notification and approval from this office, could result in revocation of this license and in required removal of the materials and related structures.

This authorization does not relieve you from obtaining any other required federal, state, or local permits. Tidal water bottoms and marshlands of coastal Georgia are public trust lands owned by the state, except where ownership of such lands is demonstrated through an unbroken chain of title to a valid Crown or State Grant. The Revocable License authorizes use of lands presumed to be owned by the State of Georgia, and which are under control of the State. You may proceed with maintenance of the existing dock facility subject to the understanding and condition that the Revocable License could be rendered invalid should another person demonstrate ownership to such lands pursuant to a valid Crown Grant or State Grant.

This authorization does not relieve you from obtaining any other required federal, state, or local permits. Tidal water bottoms and marshlands of coastal Georgia are public trust lands controlled by the State, except for such lands where a validated Crown Grant or State Grant exists.

Please contact Sam LaBarba at (912) 264-7218 should you require more information.

Sincerely,



Jill Andrews  
Chief, Coastal Management Section

Enclosures: Project Photos, Description and Revocable License

cc: Camden County Building Inspector  
William Rutland, USACE, Savannah District  
LOP20200095





**ENVIRONMENTAL  
SERVICES, INC.**  
A Terracon COMPANY

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13 July 2020

Mr. Josh Noble  
Manager, Marsh & Shore Management Program  
Coastal Resources Division  
Georgia Department of Natural Resources  
1 Conservation Way Suite 300  
Brunswick, GA 31520

Subject: **Osprey Cove Bridge Repair  
Nationwide Permit #3a Pre-Construction Notification  
Camden County, Georgia**

**HM197049**

Dear Mr. Josh Noble:

On behalf of Osprey Cove Owner's Association, Environmental Services, Inc. a Terracon Company, (ESI) respectfully submits the attached Pre-Construction Notification (PCN) for use of Nationwide Permit (NWP) #3a for the repairing of wooden support piles underneath the existing bridge on property. This project is located two miles west of the city of St. Marys in Camden County, Georgia (Figure 1). The wooden bridge spans across a section of marsh along Isle of St Marys Way, and is located within the 0.37-acre project boundary.

Via this PCN, Osprey Cove Owner's Association is requesting to temporarily utilize 0.03-acres of freshwater wetlands and 0.14-acres of saltwater wetlands in order to perform the work necessary to restore rotted and damaged support piles underneath the existing wooden bridge. Temporary use of these wetlands as the work area is unavoidable since the bridge piles are placed in wetlands and must be hand excavated around in order to repair. Approximately 1 cubic yard of material will need to be excavated around each of the 35 piles in order to perform repairs to the damaged portions of piles below ground level. Upon completion of each individual pile repair, the previously excavated soil will be put back in place and returned as close as possible to the existing elevation. For additional information please see the attached support documentation, as well as photo sheets, drawings, and figures located in the appendices.

Please note, on March 13, 2020 we conducted a field visit with Paul Tobler and he advised ESI that upon request of this NWP, we should request the CRD process this under a letter of Permission (LOP), since it is for the maintenance of an existing structure. For this reason, the temporary access road will not remain on site any longer than 6 months from the point which the LOP is provided.

RECEIVED

JUL 15 2020

GA DNR



For additional information please see the attached support documentation, as well as photo sheets, figures, and drawings within the attached appendices.

The attached documents include:

- Figures and Photo Sheets
- Appendix 1 – Wetland Impact Exhibits
- Appendix 2 – Coastal Marshlands Protection Act (CMPA) Jurisdictional Determination Verification, and associated Wetland Exhibits
- Appendix 3 – Erosion, Sedimentation, and Pollution Control Plans
- Appendix 4 – EDGES Coordination Slip, IPaC, and HUC10
- Appendix 5 – Aquatic Resource Delineation Verification

At your earliest convenience, we request that you review the attached material and initiate processing this Nationwide Permit. Should you have any questions, please feel free to call me at the number listed above. In advance, we appreciate your assistance with this project.

Sincerely,

ENVIRONMENTAL SERVICES, INC., A Terracon Company

Michael J. DeMell  
Department Manager

Kristen Deason  
Senior Staff Scientist

U.S. ARMY CORPS OF ENGINEERS, SAVANNAH DISTRICT  
2017 PRE-CONSTRUCTION NOTIFICATION (PCN)  
FOR USE OF CERTAIN NATIONWIDE PERMITS (NWP)

USE OF NWP NUMBER 3a Date July 10, 2020

APPLICANT/PROPERTY OWNER Osprey Cove Owner's Association

Phone(hm/bus) \_\_\_\_\_ FAX \_\_\_\_\_ E-Mail \_\_\_\_\_

Address 123 Osprey Drive City St. Mary's State GA Zip Code 31558

AGENT/CONSULTANT Kristen Deason

Phone(hm/bus) 912-236-4711 FAX 912-629-4001 E-Mail kdeason@esinc.cc

Address 2201 Rowland Ave City Savannah State GA Zip Code 31404

PROJECT LOCATION/ADDRESS Isle of St. Mary's Way

City St. Mary's County Camden Subdivision na Lot na

Latitude 30.745326 Longitude -81.599744 Hydrologic Map Cataloging Unit 0307020409

Nearest Named Stream, River or Other Waterbody Millers Branch

EXISTING SITE CONDITIONS Historically the site wasnt used for anything until the existing bridge was built sometime between 1999-2004. The project area is the immediate area surrounding the bridge and consist of salt marsh, with a fringe freshwater wetland on the southern side.

PROJECT DESCRIPTION The proposed work will generally involve excavating a narrow area immediately surrounding the piles, deep enough where the undamaged portions of the piles are reached. Once that depth is reached they will be cased with a fiberglass jacket that will extend upward and beyond where the damages have occurred. If any bracing, fasteners, or other bridge mechanisms are in the way of the casing they will be removed and replaced by the contractor as long as the integrity of the bridge is not compromised.

**MEASURES TAKEN TO AVOIDANCE/MINIMIZE IMPACTS TO WATER OF U.S.**

In order to minimize impacts the work area footprint was kept as small as possible and work around the pilings will be done by hand. Additionally the only permanent impact will be the small volume of soil displaced directly around the pilings where the fiberglass casting will go. All other impacts on site will be temporary and restored after construction.

**PROJECT AREA AND IMPACT INFORMATION**

	PROJECT AREA		IMPACTS TO US WATERS	
	ACRES	LINEAR FEET	ACRES	LINEAR FEET
<b>TOTAL PROJECT AREA</b>	0.37	N/A	N/A	N/A
<b>UPLAND</b>	0.18	N/A	N/A	N/A
<b>WETLAND</b>	0.19	N/A		N/A
<b>OPEN WATER</b>	0	N/A		N/A
<b>PERENNIAL STREAM</b>	0			
<b>INTERMITTENT STREAM</b>	0			
<b>EPHEMERAL STREAM</b>	0			
<b>MAN-MADE DITCHES</b>	0			

**MAPS, DRAWINGS AND OTHER INFORMATION.** Include information to address answers provided.

1. PCN submitted to the Georgia EPD? (RC A and Appendix A) Yes  No
2. PCN submitted to the Georgia CRD? (RC A and Appendix A) Yes  No
3. Is the project on or adjacent to a state water, where buffer variance is required? Yes  No
4. Is the project within 10 miles of a 303(d) listed stream? Yes  No
5. Is the project located in or adjacent to a trout stream? Yes  No
6. Is there a water quality management plan for the project site? Yes  No
7. Is a copy of the FWS Initial Project Scoping (IPaC) attached to the PCN? (GC 18) Yes  No   
<http://ecos.fws.gov/ipac/>
8. Are oysters located within the project area? Yes  No
9. Are cultural resources located on or near the project site? (GC 20(c)) Yes  No   
<http://www.nr.nps.gov/>
10. Is compensatory mitigation required? (GC 32(b)(6), GC 23 & RCs H.1–H.5) Yes  No
11. Are culverts proposed in streams or wetlands? (RC C.4 and E.1-8) Yes  No
12. Is in-stream/wetland storm water management proposed? (RC C.5) Yes  No
13. Is the project phased, with future wetland/stream impacts planned? Yes  No
14. Have authorized wetland/stream impacts occurred on the project site? Yes  No
15. Have unauthorized wetland/stream impacts occurred on the project site? Yes  No
16. Is the project located within 5 miles of an airport? Yes  No

**IMPORTANT NOTES:**

1. For a PCN to be complete for processing, information required at NWP General Condition (GC) 32(b) and Savannah District 2017 NWP Regional Conditions C must be included.
2. All maps and drawings that are attached to this PCN must be submitted on 8 ½ X 11-inch paper. Supplemental maps and drawings larger than 8 ½ X 11 may also be submitted for clarity.

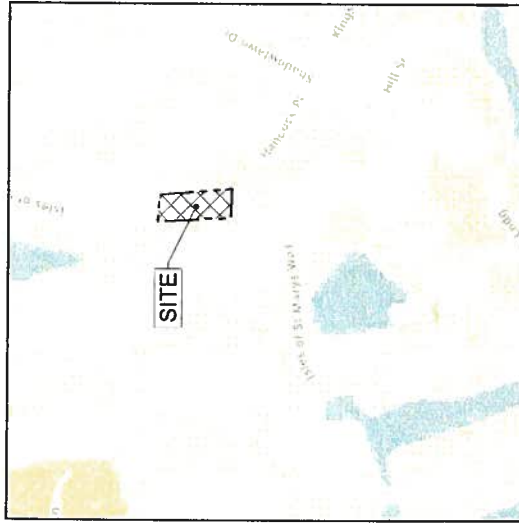
# EROSION, SEDIMENTATION & POLLUTION CONTROL PLANS FOR

# OSPREY COVE WOODEN BRIDGE REPAIR

KINGSLAND, CAMDEN COUNTY, GEORGIA

Prepared for  
OSPREY COVE OWNERS ASSOCIATION

Sheet Number	Sheet Title
1	COVER
2	EXISTING CONDITIONS AND DEMOLITION PLAN
3	EROSION SEDIMENTATION & POLLUTION CONTROL PLAN
4	EROSION SEDIMENTATION & POLLUTION CONTROL PLAN
5	EROSION SEDIMENTATION & POLLUTION CONTROL NOTES
6	EROSION SEDIMENTATION & POLLUTION CONTROL DETAILS



VICINITY MAP  
NOT TO SCALE

**UTILITY LOCATION DISCLAIMER**  
THE CLIENT HAS AGREED AS PART OF THIS CONTRACT TO PROVIDE, MAINTAIN AND VERIFY THE ACCURACY OF ALL UTILITY INFORMATION. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO ANY EXCAVATION WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO UTILITIES OR PERSONS AND PROPERTY CAUSED BY ANY EXCAVATION WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO UTILITIES OR PERSONS AND PROPERTY CAUSED BY ANY EXCAVATION WORK.

REVISION	DESCRIPTION	DATE



**EMC ENGINEERING SERVICES, INC.**  
100 BLOSSOM STREET  
NORFOLK, VA 23510  
PHONE: 813.752.4489  
FAX: 813.752.7328  
WWW.EMC811.COM

**PROJECT LOCATION:**  
29TH G.M. DISTRICT  
ST MARYS, CAMDEN COUNTY, GEORGIA  
19-5019  
APRIL 2020

**GEORGIA811**  
www.Georgia811.com  
Know what's below.  
Call before you dig.



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ENVIRONMENTAL - MARINE - CIVIL - SURVEY





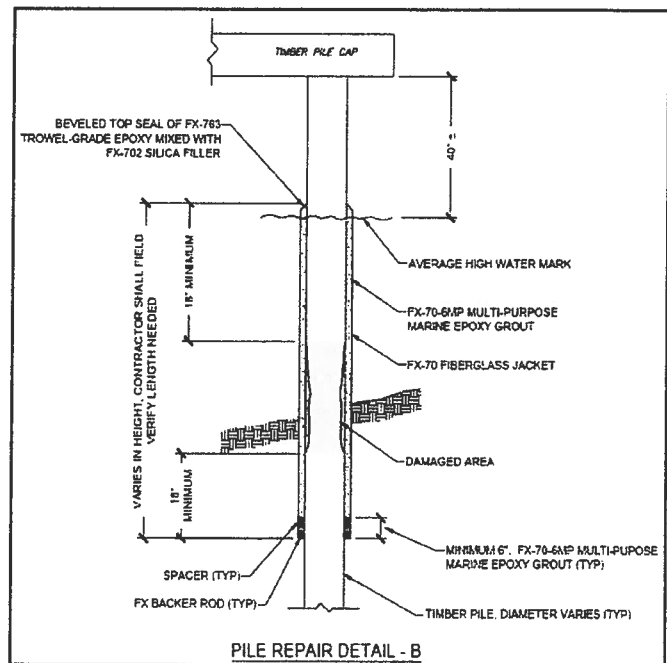
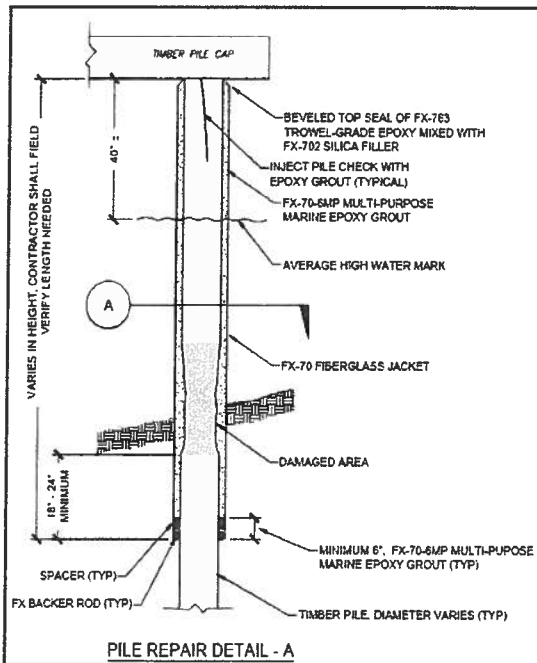
**Osprey Cove Bridge Repair**

**PROJECT SUPPORT DOCUMENTATION**  
**OSPREY COVE BRIDGE REPAIR**  
Camden County, Georgia

**Project Description**

The Osprey Cove Owner's Association is in need of repairs to the existing wooden bridge in the Osprey Cove Subdivision. The attached photo sheets show the current state of the bridge and the support piles that have rotted since installation of the bridge in the late 1990's. The 0.37-acre project area is located in the Osprey Cove Subdivision along Isles of St Mary Way, just south of Reserve Circle.

The proposed repair of the wooden support piles will take place during low to mid tidal cycles, avoiding high tide. The proposed repair generally involves excavating a narrow area immediately surrounding each pile, deep enough where the undamaged portions of the piles are reached. Once the undamaged pile depth is reached the piles will be cased with a fiberglass jacket that will extend upward and beyond where the damages have occurred. Around the interior support piles, a total of approximately 35 cy of soil will be removed, accounting for roughly 1 cy per pile, with a total of 35 piles support the bridge. During time of casing, removed material will be stored in a parking lot inside the subdivision. All material will be put back in place around the piles after the casing is complete and will be filled as close to the original elevation. The below two excerpts from construction drawings show a detailed cross-section of a typical pile repair.



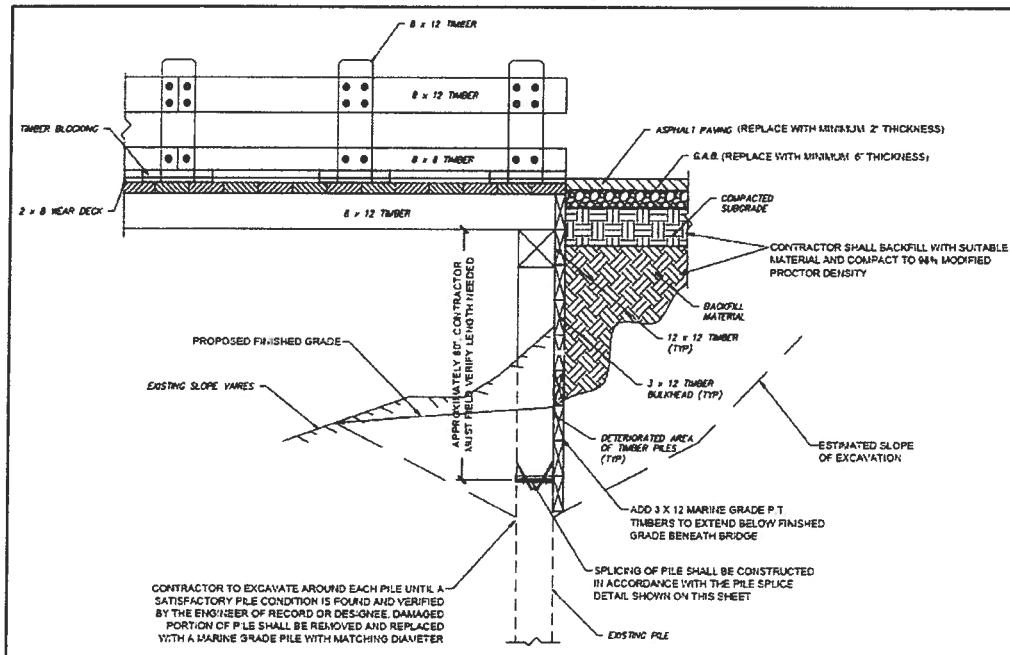


**Osprey Cove Bridge Repair**

If any bracing, fasteners, or other bridge mechanisms are in the way of the casing they will be removed and replaced by the contractor, as long as the integrity of the bridge is not compromised. Please note, this repair will not require any adjustment to the location or positioning of the bridge.

In order to access support piles under the bridge, two temporary construction access roads will be placed on the northeast and southeast side of the bridge, as shown on Sheet 3 and 4 of the Erosion, Sedimentation, and Pollution Control Plans (Appendix 3). The purpose of these temporary access roads, the majority of which is contained within uplands, is so equipment can move tools and material from the main paved road, down the slope to the wetland edge. Downslope of the wetland edge, work will take place by hand with use of hand tools only, utilizing temporary mats or wooden boards to aid workers in walking upon soft marsh mud. All temporary mats and boards will be removed upon construction completion. Additionally, it should be noted that the south temporary access road requires a small 200 sq ft triangular area of the freshwater wetland to be patched with gravel, in order to provide adequate room for equipment to turn around. Both temporary access roads will stay in place for up to 6 months. Upon completion of construction, the temporary access roads and associated gravel will be removed in its entirety and re-vegetated with the grass.

Both bridge abutments will also be replaced, however both abutments are contained within uplands, upslope of the wetland line. On the bridge abutments to the northside of the bridge it is estimated that 700 cy total (350 cy x 2) will be removed for the north bridge abutment to be replaced, with 75% of the material being put back in place to secure the new abutment and the excess material being taken to a local landfill. On the south bridge abutment, it is estimated that 550 cy (275 cy x 2) of soil will need to be removed for its replacement, however all of the material removed will be put back in place to secure the new abutment. The below excerpt from construction drawings, show the typical cross-section of the abutment repairs:



**Avoidance and Minimization Techniques**

## **Osprey Cove Bridge Repair**

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Of the 0.37-acre project area displayed on the wetland exhibit in Appendix 1, 0.18-acres are considered upland, 0.15-acres are considered saltwater wetlands, and 0.04-acres are considered freshwater wetlands. The wetland impact plan found in Appendix 2 lays out the temporary work areas and temporary access road that will be used to complete this repair. Of the 0.15-acres of saltwater wetlands, 0.14-acres will be used as a temporary work area, and of the 0.04-acres of freshwater wetlands, 0.03-acres will be used for the temporary work area. The first effort made to minimize and avoid impacts was to keep the work area footprint as small as possible while still allowing room for workers and equipment to move and work safely. One key factor that has allowed the work area to be so small is that all work under the bridge, including excavation around the piles, will be done by hand. Inside this temporary work area mats or boards will be placed down on the marsh surface to prevent tools or workers from sinking and causing further damage to the wetlands. Any excavated material from around the pilings will temporary be stored in a parking lot near the job site, after which it will either be placed back around the pile or removed to a nearby landfill. For additional information on avoidance and minimization techniques please see erosion, sedimentation, and pollution control plans in Appendix 3.

### **3. Is the project on or adjacent to a state water, where buffer variance is required?**

NO

As of March 6, 2017, the EPD issued a conditional Water Quality Certification for NWP's which means that buffer variances are not required when applying for NWP's. Due to this certification a state water buffer variance will not be required for the salt marsh the project occurs in.

### **4. Is the project within 10 miles of 303(d) listed stream?**

YES

Information about 303(d) listed streams is gathered using the EPA's WATERS GeoViewer website. From our search three waterbodies were found that are listed due to various impairments: The St. Mary River, The Amelia River, and Plummer Creek. The St. Mary's river is located approximately 1.2 miles south and flows from west to east adjacent to the proposed project. Listed impairments for this waterbody are mercury, nutrients, organic enrichment/oxygen depletion, and pathogens. The Amelia River is located approximately 9.25 miles south east from the proposed project and is listed due to impairments caused by nutrients. The last water body is Plummer Creek which is located approximately 9.75 miles south west from our proposed project. Its causes of impairment are pathogens, organic enrichment/ oxygen depletion, nutrients, and turbidity. Please see Figure 2 for geographic depiction of these 303(d) listed streams in relation to the proposed project location.



**6. Is there a water quality management plan for the project site?**

YES

As shown on Sheet 3 and 4 of the attached Erosion, Sedimentation, and Pollution Control plans, a combination of double row silt fence and a turbidity curtain will be used to contain sedimentation within the 0.37-acre work area. If any disturbed area is to be left exposed for a period of greater than 14 days, it shall be stabilized with mulch or temporary seeding. For additional information please see the Erosion, Sedimentation, and Pollution Control Plan in Appendix 3.

**7. Is a copy of the FWS Initial Project Scoping (IPaC) attached to the PCN?**

YES

An IPaC was pulled on 5 March 2020 from the U.S. Fish and wildlife Service (FWS) website. In addition to the IPaC, a HUC 10 report was pulled and an EDGES Applicant Coordination slip filled out, that indicates that the woodstork is the only species with habitat that occurs on the project site. For more information please see Appendix 4.

Suitable stork foraging habitat (SFH) that has an adequate hydrologic regime does exist within the project site. This is primarily due to the generic habitat description used for the wood stork, however according to the Draft EDGES for South Georgia Coastal Plain Counties, a not likely to adversely affect (NLAA) would be reached during step #5 on the checklist, since impacts to potential SFH are well below the 0.5-acre threshold of disturbance to SFH, with only 0.19-acres of wetland (both salt marsh and freshwater fringe) within the project area. Additionally, it should be noted that the proposed wetland impact area is mostly located underneath the existing bridge, and therefore causes all vegetation to be shaded out, which is not ideal foraging habitat for the wood stork.

Based on document searches and knowledge of the habitat ranges of threatened and endangered species in this area, it is the *opinion* of ESI that the potential for any of the listed species to occur within the potential impact area is very low. Additionally, when walking through the Consultation Checklist for each species with an applicable EDGES, assigned for all species identified on the IPaC, you would either reach a “no affect” determination, or a “not likely to adversely affect determination”. For this reason, threatened and/or endangered species should not be of issue for this project.

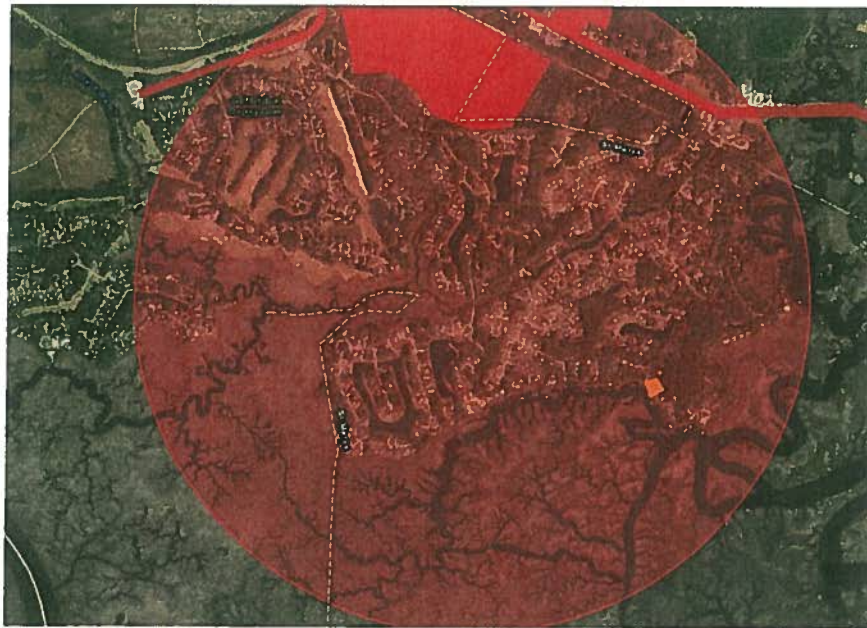
**Osprey Cove Bridge Repair**

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**9. Are cultural resources located on or near the project site?**

NO

We had a Cultural Resource Department Manager/Senior Associate at ESI investigate the osprey cove site. Upon his review he identified that the bridge was built between 1999 and 2003. The housing development to the north was built in 2005 and the housing development to the south was built in 1995. Therefore, no structure on the site or in the immediate surrounding area is over 50 years of age, and therefore would not be considered historic resources. He also identified two archeological sites nearly one-mile southeast which can be seen in the screenshot below from GNARGIS. Since the work being conducted will only temporarily disturb small areas directly around the existing pilings, it is the opinion of ESI that no cultural resources will be affected by the proposed project.



**9. Is compensatory mitigation required?**

NO

The only excavation of soils within wetlands will be 1 cubic yard of material per pile, in the immediately surrounding pile radius. However, soil will be put back in place following pile repair, and therefore should not be considered an impact. For additional information regarding the amount and placement of soil to be removed and replaced, please see the project description above. Although 0.14 acres of salt marsh and 0.03 acres of freshwater wetland will be used as the temporary work area, this should also not be considered an impact, considering the work being done in the area will only consist of hand tools and workers walking on



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## **Osprey Cove Bridge Repair**

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foot over mats. Even if this short-term disturbance was to be mitigation for, Georgia does not currently have any banks to purchase salt marsh credits from. Furthermore, temporary impacts to freshwater wetlands are on 0.03 acres, and technically below the 0.1-acre threshold, where mitigation is required. The goal post construction is for the soil surface where temporary impacts would have occurred to be returned to the same level as pre-construction.

## **Figures and Photo Sheets**

Figure 1: Project Vicinity

Figure 2: 303d Listed Streams



 **Project Boundary**

0 0.5 1  
Miles

Source(s): ESRI Streets Basemap

Disclaimer: The information depicted on this figure is for conceptual purposes only, serves to aid a licensed engineer or geologist in rendering professional services, and is subject to review and approval by appropriate regulatory agencies.

Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community

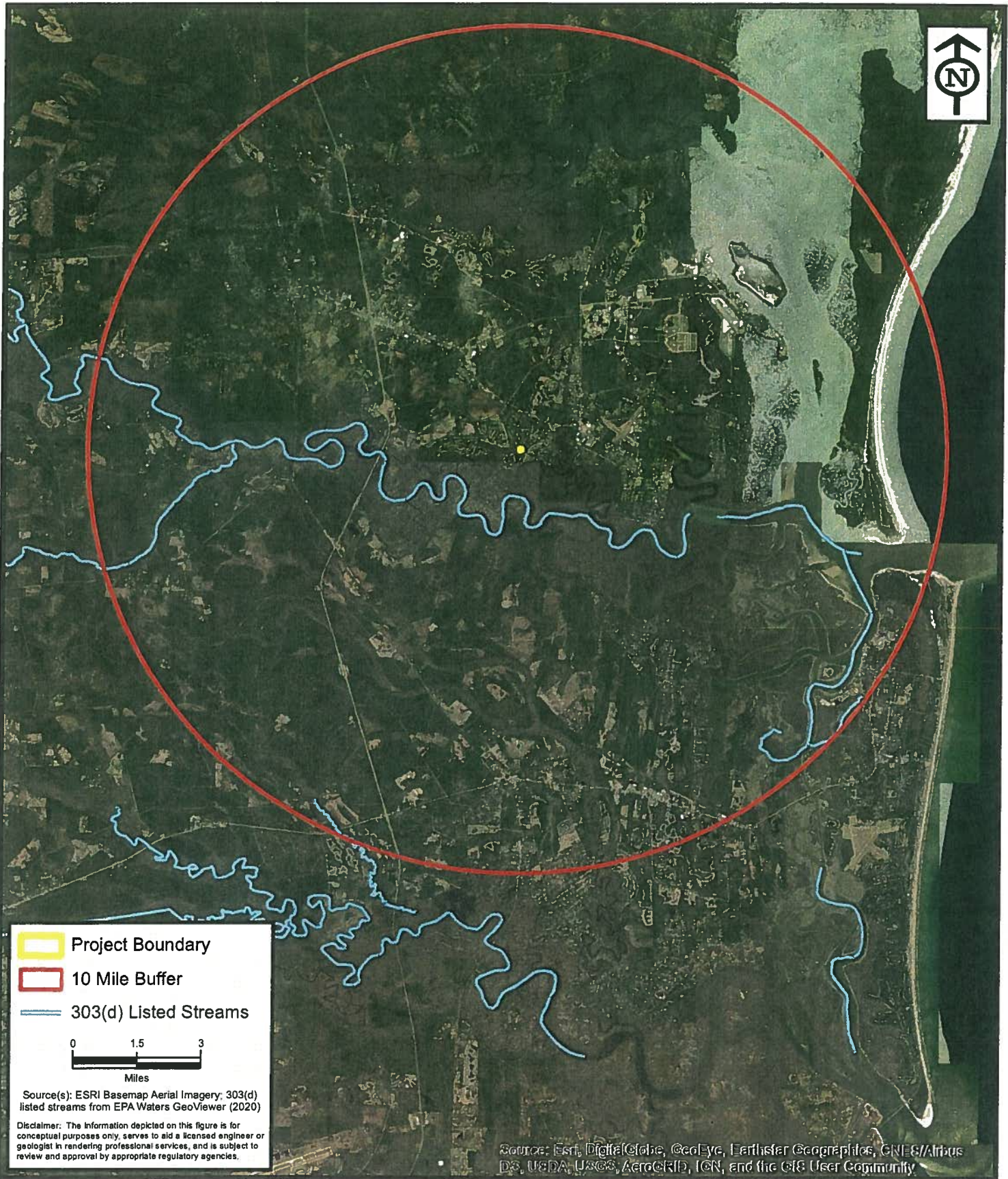


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Vicinity Exhibit  
**Osprey Cove Bridge Repair**  
St. Mary's, Camden County, Georgia

Project:	HM197049
Date:	Jan. 2020
Drwn/Chkd:	AJV/KHD
Figure:	1





Project Boundary  
 10 Mile Buffer  
 303(d) Listed Streams

0      1.5      3  
 Miles

Source(s): ESRI Basemap Aerial Imagery; 303(d) listed streams from EPA Waters GeoViewer (2020)

Disclaimer: The information depicted on this figure is for conceptual purposes only, serves to aid a licensed engineer or geologist in rendering professional services, and is subject to review and approval by appropriate regulatory agencies.

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



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303(d) Listed Stream Proximity Figure  
**Osprey Cove Bridge Repair**  
 St. Mary's, Camden County, Georgia

Project:	HM197049
Date:	Mar. 2020
Drwn/Chkd:	CMP/KHD
Figure:	2

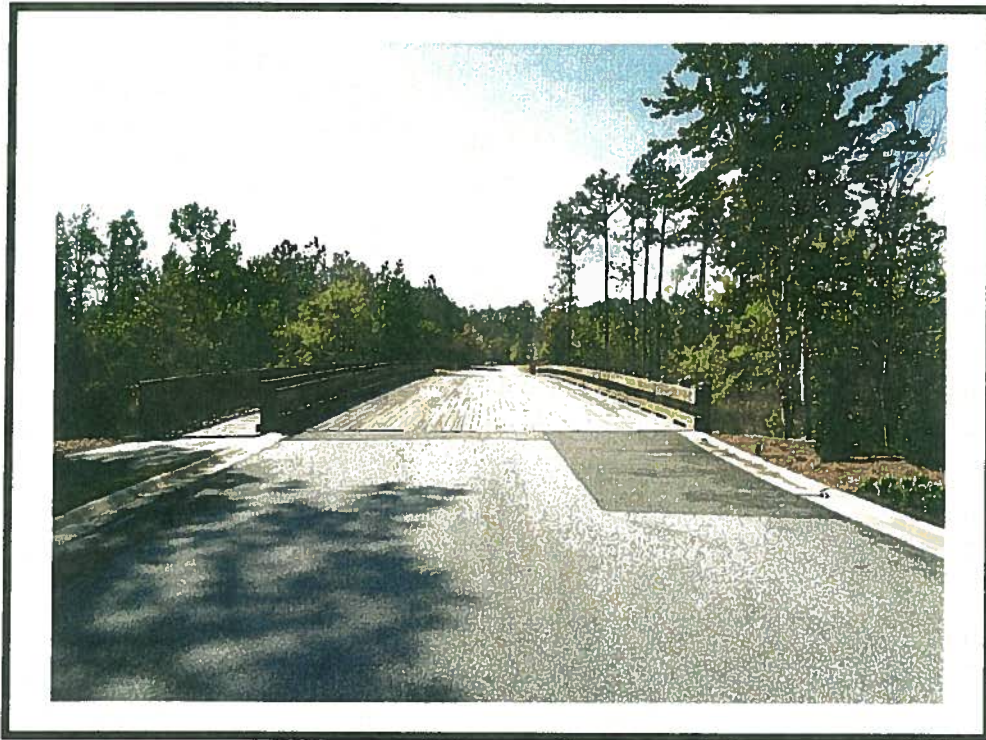


Photo1: North end of bridge facing south

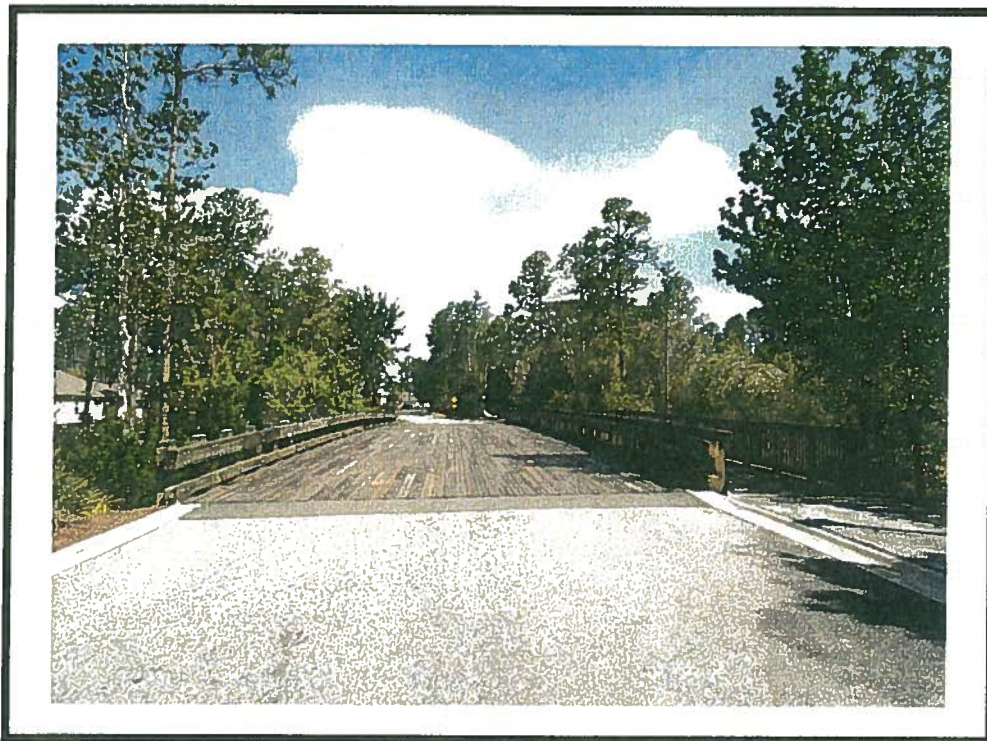


Photo 2: South end of bridge facing north



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SAVANNAH, GA 31404  
FAX (912) 629-4001

Photosheet 1

**Osprey Cove - Bridge Repair**

St. Mary's, Camden County, Georgia

Project No.	HM197049
Date	Jul 2020
Drawn By	CP
Checked By	KD
Figure No.	PS1



Photo 3: Tidally influenced damage to support piles

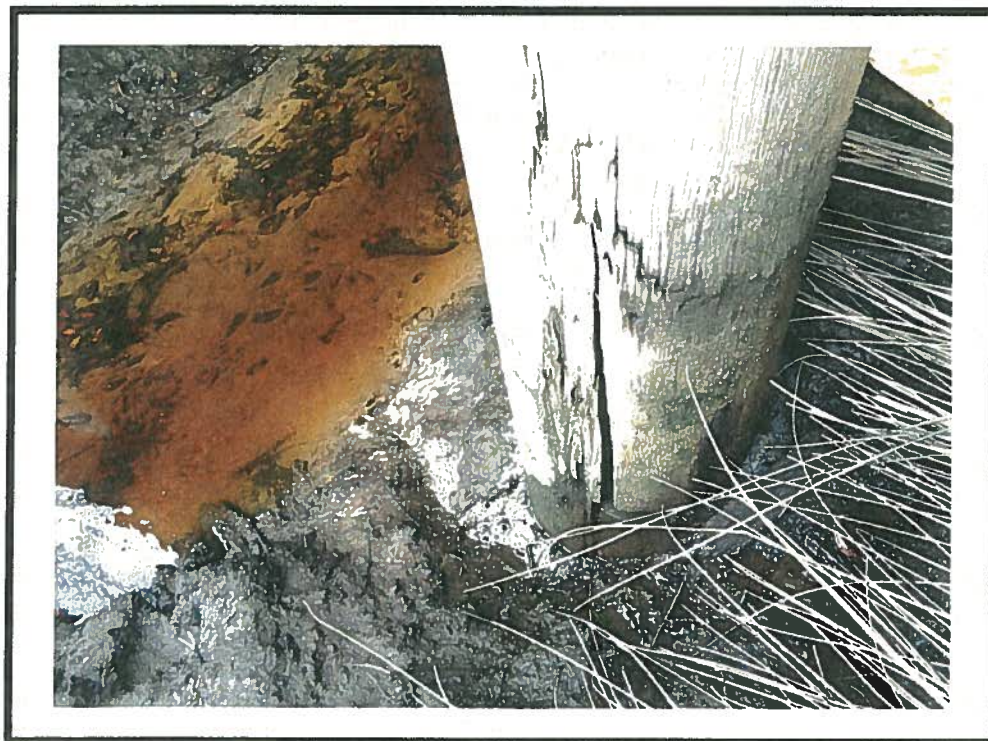


Photo 4: Tidally influenced damage to support piles.



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Photosheet 2

## Osprey Cove - Bridge Repair

St. Mary's, Camden County, Georgia

Project No.	HM197049
Date	Jul 2020
Drawn By	CP
Checked By	KD
Figure No.	PS2

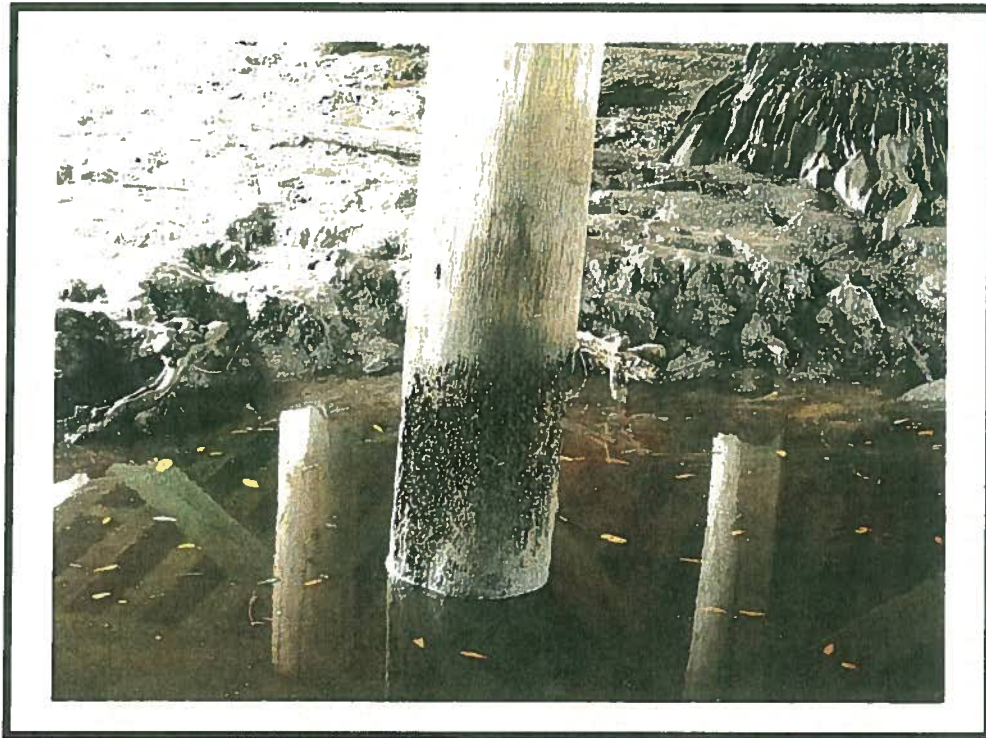


Photo 5: Tidally influenced damage to support piles



Photo 6: Tidally influenced damage to support piles.



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Photosheet 3

**Osprey Cove - Bridge Repair**

St. Mary's, Camden County, Georgia

Project No.	HM197049
Date	Jul 2020
Drawn By	CP
Checked By	KD
Figure No.	PS3



Photo 7: Tidally influenced damage to support piles



Photo 8: Tidally influenced damage to support piles.



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Photosheet 4

**Osprey Cove - Bridge Repair**

St. Mary's, Camden County, Georgia

Project No.	HM197049
Date	Jul 2020
Drawn By	CP
Checked By	KD
Figure No.	PS4



Photo 9: Tidally influenced damage to support piles



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FAX (912) 629-4001

Photosheet 5

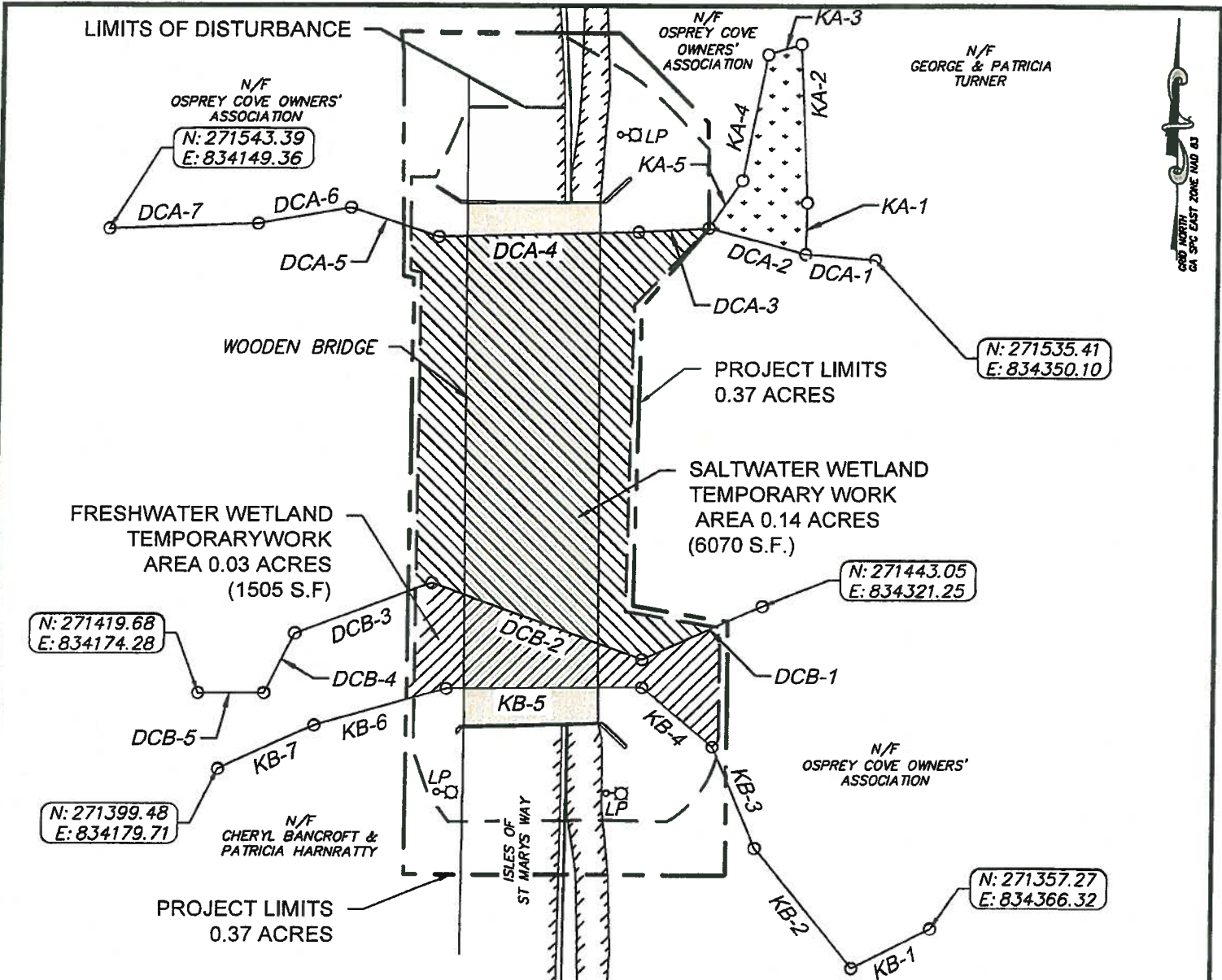
**Osprey Cove - Bridge Repair**

St. Mary's, Camden County, Georgia

Project No.	HM197049
Date	Jul 2020
Drawn By	CP
Checked By	KD
Figure No.	PS5

# **Appendix 1**

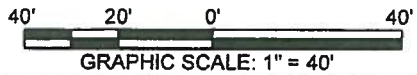
*Wetland Impact Exhibits*



This Topographic Survey was prepared in conformity with The Technical Standards for Surveys in Georgia as set forth in the Rules of the Georgia Board of Registration for Professional Engineers and Land Surveyors and as defined in Rule 180-07-.07. The certification extends only to the topographic aspects of this survey. This topographic survey does not constitute a boundary survey and is not to be recorded.

WESLEY P. WEITMAN  
 GA. REG. L.S. LIC. NO. 003343  
 LAND SURVEY FIRM # 000051

1. Horizontal Datum is Georgia State Plane Coordinate System of 1985, East Zone, North American Datum of 1983 (NAD83).
2. Basis of Bearings, Horizontal Control, Vertical Control and some spot elevations were obtained utilizing GPS (global positioning systems). The equipment used to obtain this data was a CHCNAV i80 GNSS GPS receiver [RTK Accuracy (Horizontal: 8mm + 1ppm RMS) (Vertical: 15mm + 1ppm RMS)] with a Carlson RT3 data collector receiving RTK corrections via a Verizon Jetpack MiFi 6620L from the eGPS Solutions Real Time Network. The technique used was RTK corrected measurements from a Trimble VRS Real Time Network operated by eGPS Solutions, Inc.
3. This property is located in Zone AE with base flood elevation of 8 feet, a Special Flood Hazard Area per the Federal Emergency Management Agency's Flood Insurance Rate Map No. 13039C0480G; Effective Date: December 21, 2017.
4. All wetlands are under the jurisdiction of the U.S. Army Corps. of Engineers and/or the State of Georgia Department of Natural Resources. Lot owners are subject to penalty by law for disturbance to these protected areas without proper permit application and approval.



SHEET 1 OF 2.

EMC ENGINEERING SERVICES, INC.		<b>WETLAND IMPACT EXHIBITS</b>		PROJECT NO:	19-5019
	504 Gloucester St Brunswick, GA 31520 Ph: (912) 265-7636 Fax: (912) 233-4580 brunswick@emc-eng.com www.emc-eng.com	<b>OSPREY COVE WOODEN BRIDGE WETLANDS EXHIBITS</b>		DRAWN BY:	KLC
	ALBANY • ATLANTA • AUGUSTA • BRUNSWICK COLUMBUS • SAVANNAH • STATESBORO THOMASTON • VALDOSTA • WARNER ROBINS	29TH G.M. DISTRICT ST. MARYS, CAMDEN COUNTY, GEORGIA		DESIGNED BY:	-
		Prepared for: OSPREY COVE OWNERS' ASSOCIATION		SURVEYED BY:	JH
				SURVEY DATE:	2/13/2020
				CHECKED BY:	WPW
				SCALE:	1" = 40'
				DATE:	6/8/2020



WETLAND DCA		
LINE#	DIRECTION	LENGTH
DCA-1	N85° 34' 27"W	18.53
DCA-2	N74° 38' 51"W	26.28
DCA-3	S86° 38' 56"W	18.61
DCA-4	S88° 32' 49"W	52.97
DCA-5	N71° 36' 21"W	24.41
DCA-6	S79° 34' 27"W	23.94
DCA-7	S87° 59' 58"W	38.69


WETLAND KA		
LINE#	DIRECTION	LENGTH
KA-1	N01° 12' 42"E	13.74
KA-2	N02° 42' 59"W	42.15
KA-3	S72° 21' 02"W	9.16
KA-4	S10° 41' 38"W	34.01
KA-5	S34° 08' 39"W	15.32

WETLAND DCB		
LINE#	DIRECTION	LENGTH
DCB-1	S65° 36' 08"W	34.23
DCB-2	N69° 57' 35"W	59.30
DCB-3	S68° 58' 25"W	38.02
DCB-4	S25° 31' 52"W	17.62
DCB-5	S89° 58' 22"W	17.00

WETLAND KB		
LINE#	DIRECTION	LENGTH
KB-1	S63° 02' 37"W	23.22
KB-2	N38° 52' 37"W	40.99
KB-3	N22° 30' 15"W	29.21
KB-4	N49° 44' 45"W	24.47
KB-5	S89° 33' 30"W	51.63
KB-6	S73° 57' 48"W	35.77
KB-7	S64° 21' 22"W	26.98

SHEET 2 OF 2.

EMC ENGINEERING SERVICES, INC.

 504 Gloucester St  
Brunswick, GA 31520  
Ph: (912) 265-7636  
Fax: (912) 233-4580  
brunswick@emc-eng.com  
www.emc-eng.com

ALBANY • ATLANTA • AUGUSTA • BRUNSWICK  
COLUMBUS • SAVANNAH • STATESBORO  
THOMASTON • VALDOSTA • WARNER ROBINS

WETLAND IMPACT EXHIBIT

OSPREY COVE WOODEN BRIDGE WETLANDS EXHIBITS  
29TH G.M. DISTRICT  
ST. MARYS, CAMDEN COUNTY, GEORGIA  
Prepared for:  
OSPREY COVE OWNERS' ASSOCIATION

PROJECT NO: 19-5019  
DRAWN BY: KLC  
DESIGNED BY: -  
SURVEYED BY: JH  
SURVEY DATE: 2/13/2020  
CHECKED BY: WPW  
SCALE: NO SCALE  
DATE: 6/8/2020

## **Appendix 2**

*Coastal Marshlands Protection Act (CMPA) Jurisdictional Determination Verification, and  
associated Wetland Exhibits*

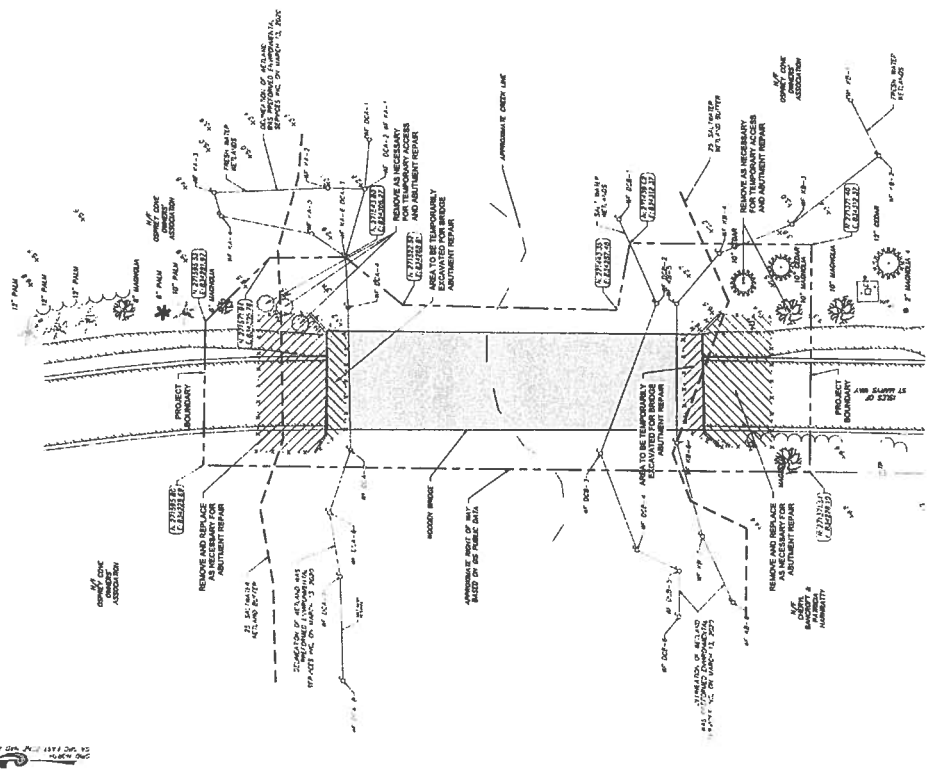
PROJECT NO. 18-0011  
DRAWN BY: JAC  
CHECKED BY: JAC  
SURVEY DATE: AUGUST 2008  
SCALE: 1" = 20'  
DATE: 09/20/08

SHEET  
2  
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EXISTING CONDITIONS AND DEMOLITION PLAN  
OSPREY COVE WOODEN BRIDGE REPAIR  
29TH G.M. DISTRICT  
ST. MARYS, CAMDEN COUNTY, GEORGIA  
Prepared for:  
OSPREY COVE OWNERS' ASSOCIATION

EMC ENGINEERING  
504 Gloucester Street  
Brunswick, GA 31520  
Phone: (912) 252-7388  
Fax: (912) 252-1590  
www.emc-eng.com

ALABAMA - ATLANTA - AUGUSTA - BRUNSWICK - CHARLESTON  
DAKOTA - FORT WORTH - HOUSTON - JACKSONVILLE - MEMPHIS  
NEW YORK - PHOENIX - RICHMOND - TAMPA - WASHINGTON, D.C.  
WISCONSIN



NO.	REVISION DESCRIPTION	DATE

NO.	REVISION DESCRIPTION	DATE

**CSNICK**  
 CONSULTING SERVICES, INC.  
 JOHN M. MANNING  
 LICENSED PROFESSIONAL ENGINEER  
 LICENSE NO. 100000000  
 STATE OF GEORGIA  
 1000 Peachtree Street, N.E.  
 Atlanta, Georgia 30309  
 Phone: 404.525.2222  
 Fax: 404.525.2222

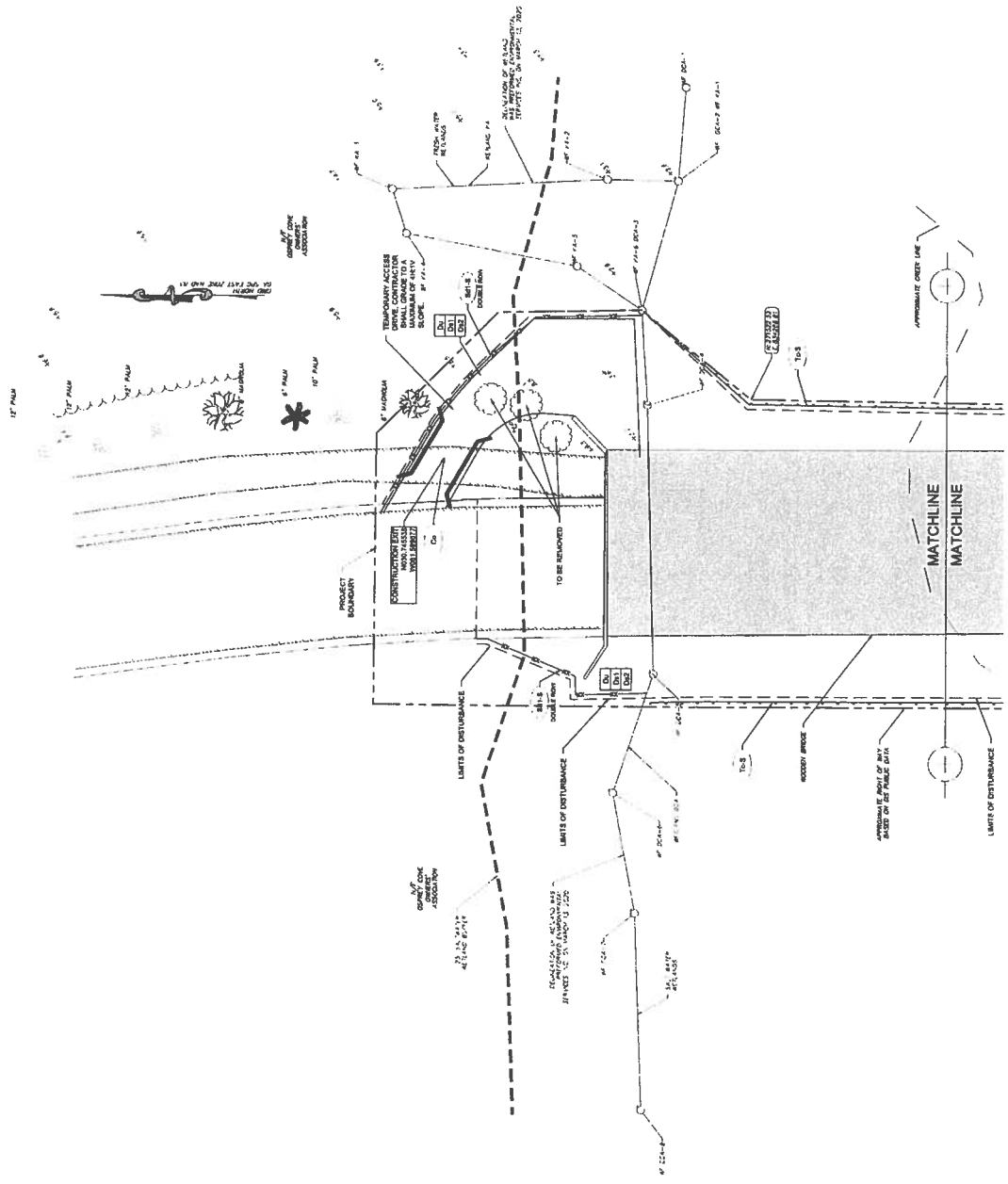
**EMC SERVICES, INC.**  
 1500 Peachtree Street, N.E.  
 Atlanta, Georgia 30309  
 Phone: 404.525.2222  
 Fax: 404.525.2222  
 www.emcservices.com

**EROSION SEDIMENTATION & POLLUTION CONTROL PLAN**  
 ST. MARYS, CALDEN COUNTY, GEORGIA  
 Prepared for:  
 OSPREY COVE WOODEN BRIDGE REPAIR  
 OSPREY COVE OWNERS ASSOCIATION

PROJECT NO.	18-0011
DRAWN BY	JAC
CHECKED BY	JAC
DATE	11/10/2010
SCALE	AS SHOWN
DATE	11/10/2010

**GENERAL NOTES:**

1. ALL CONSTRUCTION SHALL BE PERFORMED TO THE BEST SAFETY AND ALL NECESSARY AND METHODS OF CONSTRUCTION SHALL BE APPROVED BY THE DISTRICT ENGINEER.
2. VERTICAL DATA IS BASED ON THE NATIONAL GRID DATUM OF 1985.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE DISTRICT ENGINEER AND THE LOCAL HEALTH DEPARTMENT.
4. THE CONTRACTOR SHALL KEEP ONE COPY OF THIS PLAN AT ALL TIMES.
5. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN ALL REQUIRED PERMITS AND APPROVALS THROUGHOUT THE CONSTRUCTION OF THIS PROJECT.
6. ALL WORK SHALL BE COMPLETED WITHIN THE SPECIFIED TIME FRAME.
7. LOCATIONS ARE INDICATED ONLY FOR REFERENCE PURPOSES.
8. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AND UTILITIES AT ALL TIMES.
9. THE CONTRACTOR SHALL MAINTAIN THE EXISTING GRASSY AREA AND SHALL REPAIR ANY DAMAGE TO THE EXISTING GRASSY AREA.
10. THE CONTRACTOR SHALL MAINTAIN THE EXISTING DRIVEWAY AND SHALL REPAIR ANY DAMAGE TO THE EXISTING DRIVEWAY.
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24. THE CONTRACTOR SHALL MAINTAIN THE EXISTING DRIVEWAY AND SHALL REPAIR ANY DAMAGE TO THE EXISTING DRIVEWAY.



NO.	REVISION DESCRIPTION	DATE

GSWCC  
 JOHN M. MOBBY  
 Licensure Number: 200303203  
 Issue: 3.30.2023 Expiry: 3.31.2025

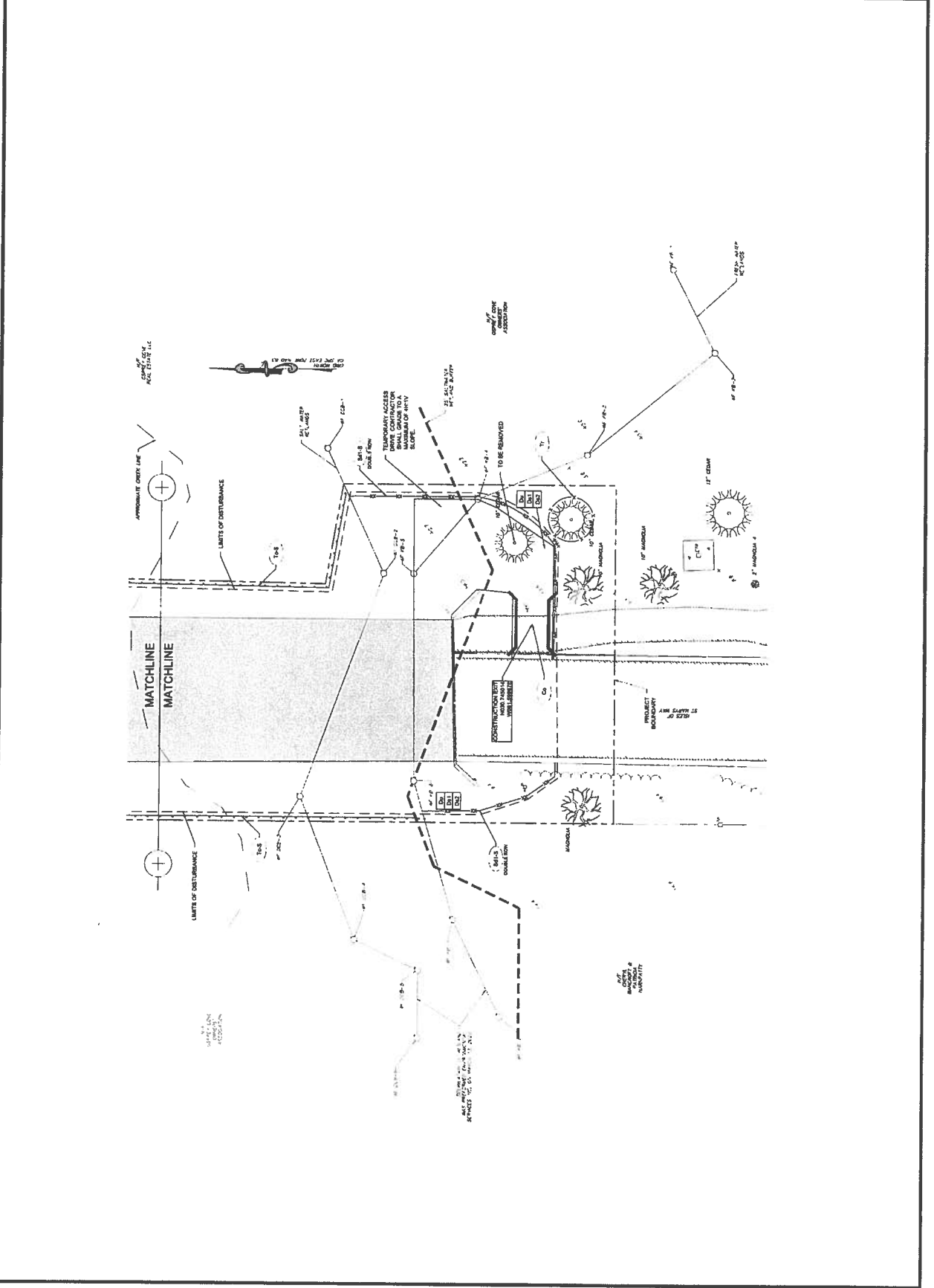


**EMC ENGINEERING SERVICES, INC.**  
 504 Chandler Street  
 Marietta, GA 30067  
 Phone: (770) 228-1938  
 Fax: (770) 228-1938  
 Email: info@emc-engineering.com

**EROSION SEDIMENTATION & POLLUTION CONTROL PLAN**  
**OSPREY COVE WOODEN BRIDGE REPAIR**  
 29TH G.M. DISTRICT  
 ST. MARY'S, CAMDEN COUNTY, GEORGIA  
 Prepared for:  
 OSPREY COVE OWNERS' ASSOCIATION

PROJECT NO. 18-0118  
 DRAWN BY: J.M.M.  
 CHECKED BY: J.M.M.  
 SURVEY DATE: 11/2020  
 PROJECT START DATE: 11/23/23  
 SCALE: AS SHOWN  
 DATE: 6/2023

SHEET  
**4**  
 OF  
 6



**EMM SERVICES, INC.**  
 604 Governors Drive  
 Marietta, GA 30067  
 Phone: 770.228.3100  
 Fax: 770.228.3100  
 www.emmservices.com

**EMM**  
 Environmental Management  
 Services, Inc.

PROJECT NO. 13-001	DRAWN BY J.M.	DATE 11/13/2013
PROJECT NAME OSPREY COVE WOODEN BRIDGE REPAIR	CHECKED BY J.M.	DATE 11/13/2013
PROJECT LOCATION 29TH G.M. DISTRICT, ST. MARYS, CAMDEN COUNTY, GEORGIA	DESIGNED BY J.M.	DATE 11/13/2013
PROJECT DESCRIPTION OSPREY COVE WOODEN BRIDGE REPAIR	SCALE 1"=20'	DATE 11/13/2013
PROJECT NO. 13-001	DATE 11/13/2013	DATE 11/13/2013

NO.	REVISION DESCRIPTION	DATE

**EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST**

**INFRASTRUCTURE CONSTRUCTION PROJECTS**

PROJECT NAME OSPREY COVE WOODEN BRIDGE REPAIR  
 PROJECT LOCATION 29TH G.M. DISTRICT, ST. MARYS, CAMDEN COUNTY, GEORGIA  
 PROJECT DESCRIPTION OSPREY COVE WOODEN BRIDGE REPAIR

1. PROJECT NO. 13-001  
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**SOIL EROSION AND SEDIMENT CONTROL PROGRAM**

The purpose of this program is to prevent soil erosion and sedimentation from the project site. The program shall include the following:

1. Erosion control measures shall be implemented on all areas of the project site that are susceptible to erosion.
2. Sediment control measures shall be implemented to prevent sediment from leaving the project site.
3. Stormwater management measures shall be implemented to prevent stormwater runoff from the project site.
4. Best management practices (BMPs) shall be implemented to prevent soil erosion and sedimentation.
5. The contractor shall be responsible for implementing and maintaining the erosion and sediment control program.
6. The contractor shall be responsible for monitoring the effectiveness of the erosion and sediment control program.
7. The contractor shall be responsible for reporting any violations of the erosion and sediment control program to the local regulatory agency.
8. The contractor shall be responsible for providing training to all project personnel on the erosion and sediment control program.
9. The contractor shall be responsible for providing copies of this program to all project personnel.
10. The contractor shall be responsible for providing copies of this program to the local regulatory agency.

**SOIL EROSION AND SEDIMENT CONTROL MAINTENANCE PROGRAM**

The purpose of this program is to ensure that the erosion and sediment control measures implemented on the project site are maintained in good working order. The program shall include the following:

1. The contractor shall be responsible for inspecting the erosion and sediment control measures on a regular basis.
2. The contractor shall be responsible for repairing any damaged or ineffective erosion and sediment control measures.
3. The contractor shall be responsible for cleaning any sediment traps or silt fences.
4. The contractor shall be responsible for maintaining the vegetation on the project site.
5. The contractor shall be responsible for providing training to all project personnel on the maintenance program.
6. The contractor shall be responsible for providing copies of this program to all project personnel.
7. The contractor shall be responsible for providing copies of this program to the local regulatory agency.

**SOIL EROSION AND SEDIMENT CONTROL STANDARDS**

The erosion and sediment control measures implemented on the project site shall comply with the following standards:

1. The maximum allowable erosion rate shall be 100 tons per acre per year.
2. The maximum allowable sediment rate shall be 10 tons per acre per year.
3. The maximum allowable turbidity shall be 10 NTU.
4. The maximum allowable total suspended solids (TSS) shall be 100 mg/L.
5. The maximum allowable total phosphorus (TP) shall be 10 mg/L.
6. The maximum allowable total nitrogen (TN) shall be 10 mg/L.
7. The maximum allowable total dissolved solids (TDS) shall be 1000 mg/L.
8. The maximum allowable pH shall be between 6.5 and 8.5.
9. The maximum allowable temperature shall be 60 degrees Fahrenheit.
10. The maximum allowable oil and grease shall be 10 mg/L.

**SOIL EROSION AND SEDIMENT CONTROL CHECKLIST**

1. PROJECT NO. 13-001  
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**SOIL EROSION AND SEDIMENT CONTROL MAINTENANCE CHECKLIST**

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**SOIL EROSION AND SEDIMENT CONTROL STANDARDS CHECKLIST**

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 4. PROJECT DESCRIPTION OSPREY COVE WOODEN BRIDGE REPAIR

**GEORGIA UNIFORM CODING SYSTEM**

**ESPC STRATEGIC PRACTICES**

CODE	PRACTICE	DESCRIPTION
Co	CONSTRUCTION BEST MANAGEMENT PRACTICES (BMPs)	CONSTRUCTION BEST MANAGEMENT PRACTICES (BMPs)
So	SOIL EROSION AND SEDIMENT CONTROL	SOIL EROSION AND SEDIMENT CONTROL
Te	TERRACE BANKS	TERRACE BANKS
Ts	TERRACE SLOPES	TERRACE SLOPES

**GEORGIA UNIFORM CODING SYSTEM**

**ESPC VEGETATIVE PRACTICES**

CODE	PRACTICE	DESCRIPTION
Dx1	DESIGNATED VEGETATION	DESIGNATED VEGETATION
Dx2	DESIGNATED VEGETATION	DESIGNATED VEGETATION
Dx3	DESIGNATED VEGETATION	DESIGNATED VEGETATION
Dx4	DESIGNATED VEGETATION	DESIGNATED VEGETATION
Dx5	DESIGNATED VEGETATION	DESIGNATED VEGETATION

**TENTATIVE ACTIVITY SCHEDULE**

ACTIVITY	START DATE	END DATE



**CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN HAS BEEN PREPARED AFTER A VISIT TO THE LOCATION DESCRIBED HEREBY BY ME OR AN AUTHORIZED AGENT, UNDER MY SUPERVISION.**

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**MATCHING APPLICATION REQUIREMENTS**

SOIL TYPE	RATE	DEPTH
STONY OR SANDY	2" 10" P	2" 10" P
CLAY	1" 10" P	1" 10" P
POVERTY SOIL	3" 10" P	3" 10" P
TOO MUCH SAND	4" 10" P	4" 10" P
TOO MUCH CLAY	4" 10" P	4" 10" P
TOO MUCH ROCK	4" 10" P	4" 10" P
TOO MUCH LIMESTONE	4" 10" P	4" 10" P
TOO MUCH ORGANIC	4" 10" P	4" 10" P

**NOTE:**

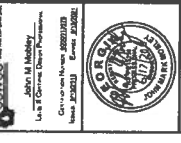
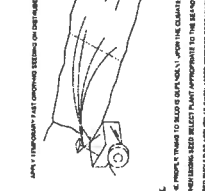
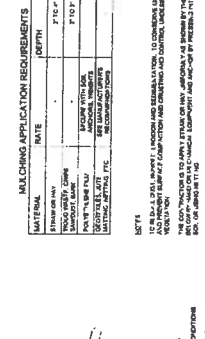
- DO NOT COVER WITH MULCH OR OTHER MATERIALS. TO CONTAIN LODGING AND PREVENT WIND UPLIFT, COVER WITH MULCH AND CONTROL UNDERBARK BEETLES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE SOIL, WATER, AND AIR QUALITY.
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**TEMPORARY COVER**

SEED TYPE	PLANTING DATES	PERMANENT COVER
GRASS	APR. - MID JULY	10
COMMON BERMUDA (SMALLE)	JAN. - MID APR. AND DEC.	10
CENTPEDE	MID JULY - MID APR. AND JUNE	80
MAHA PENSACOLA	APR. - JULY	80
WEEDING LOGGRALS	MID APR. - JULY	4
PHACOPSIS, AT ANTSI COASTAL	MID JULY - MID APR. AND DEC.	20
LEPERDEIA, BERIZA (RECOMBES)	MID APR. - JULY	80
LEPERDEIA, BERIZA (RECOMBES)	MID APR. - JULY	78
BEPT. DEC.		

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BEPT. DEC.		



**PERMANENT COVER**

ADHESIVE	WATER DILUTION	TYPE OF MIXTURE	APPLY TO (17M)	APPLY TO (17M)
ACR-100	7:1	SPRAY	SPRAY	1500
ACR-100	12:1	SPRAY	SPRAY	1500
ACR-100	4:1	SPRAY	SPRAY	300

**NOTE:**

- USE MANUFACTURER'S RECOMMENDATIONS WHEN AVAILABLE.
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**ANCHOR SYSTEM AND LAYOUT DETAILS**

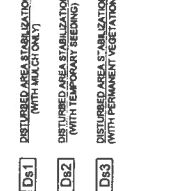
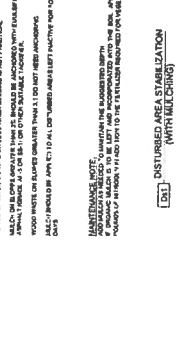
The contractor shall ensure that the anchor system is installed in accordance with the following requirements:

- THE ANCHOR SYSTEM SHALL BE ORIENTED PARALLEL TO THE CURTAIN.
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**OSPREY COVE WOODEN BRIDGE REPAIR**

ST. MARYS, CAMDEN COUNTY, GEORGIA

29TH G.M. DISTRICT

OSPREY COVE OWNERS' ASSOCIATION

Prepared for:

ALABAMA - ATLANTA - AUSTIN - BOULDER - CHICAGO - DENVER - HOUSTON - LOS ANGELES - MIAMI - MINNEAPOLIS - NEW YORK - ORLANDO - PHOENIX - PORTLAND - RICHMOND - TAMPA - WASHINGTON

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NO.	REVISION DESCRIPTION	DATE
1		
2		
3		
4		
5		

PROJECT NO.	DATE
10000000	10/20/2010
DESIGNED BY	SCALE
J.C.E.	AS SHOWN
DRAWN BY	DATE
J.C.E.	10/20/2010
CHECKED BY	SCALE
J.C.E.	AS SHOWN
DATE	SCALE
10/20/2010	AS SHOWN

**SHEET 6 OF 8**

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