

EXHIBIT A

ROCKEFELLER SHORELINE STABILIZATION (ME-0018)



Rockefeller Refuge Gulf Shoreline Stabilization (ME-18)

Project Status

Approved Date: 2001 **Project Area:** 450 acres
Approved Funds: \$33.3 M **Total Est. Cost:** \$34.3 M
Net Benefit After 20 Years: 256 acres
Status: Construction
Project Type: Shoreline Protection
PPL #: 10

Location

The project is located along the Rockefeller Wildlife Refuge Gulf of Mexico shoreline from Joseph's Harbor canal, westward 3 miles in Cameron Parish, Louisiana.

Problems

The project is designed to address Rockefeller Wildlife Refuge gulf shoreline retreat that averages approximately 46 feet/year with a subsequent direct loss of emergent saline marsh.

Restoration Strategy

The project is constructing shoreline protection along the Gulf of Mexico off Rockefeller Wildlife Refuge. A lightweight aggregate core rock breakwater is being constructed westward from Joseph Harbor along the gulf shoreline for approximately 3 miles. The breakwater consists of encapsulated lightweight aggregate, bedding stone, and large armor stone and has a 65- to 70-foot bottom width and a 18-foot crown width. The project is designed to reduce shoreline retreat along a stretch of gulf shoreline, promote shallowing and natural vegetative colonization of the overwash material landward of the structure. Gaps in the breakwater will facilitate movement of organisms and allow sediment-laden water behind the breakwater.

Progress to Date

Engineering and design are complete. Construction on this project began in July 2018.

This project is listed on Priority Project List 10.



Shoreline protection being constructed along the Rockefeller Wildlife Refuge Gulf shoreline.



Constructing shoreline protection along the Gulf shoreline of Rockefeller Wildlife Refuge.

For more information, please contact:





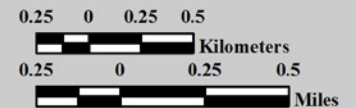
Federal Sponsor:
National Marine Fisheries Service
Baton Rouge, LA
(225) 389-0508



Local Sponsor:
Coastal Protection and Restoration Authority
Baton Rouge, LA
(225) 342-4736

Rockefeller Refuge Gulf Shoreline Stabilization (ME-18)

-  Shoreline Protection *
-  Project Boundary
- *denotes proposed features



Map Produced by:
U.S. Department of the Interior
U.S. Geological Survey
National Wetlands Research Center
Coastal Restoration Assessment Branch
Baton Rouge, La.

Background Imagery:
2012 Digital Orthophoto Quarter Quadrangle

Map Date: September 03, 2014
Map ID: USGS-NWRC 2014-11-0035
Data accurate as of: September 03, 2014

Gulf of Mexico

Alligator
Lake

Humble Canal

Joseph Harbor
Bayou

Notes:

1. Marine signal light shall meet requirements of 33 CFR for Class "C" structures and have, minimum, the following properties

Range: 1 Mile

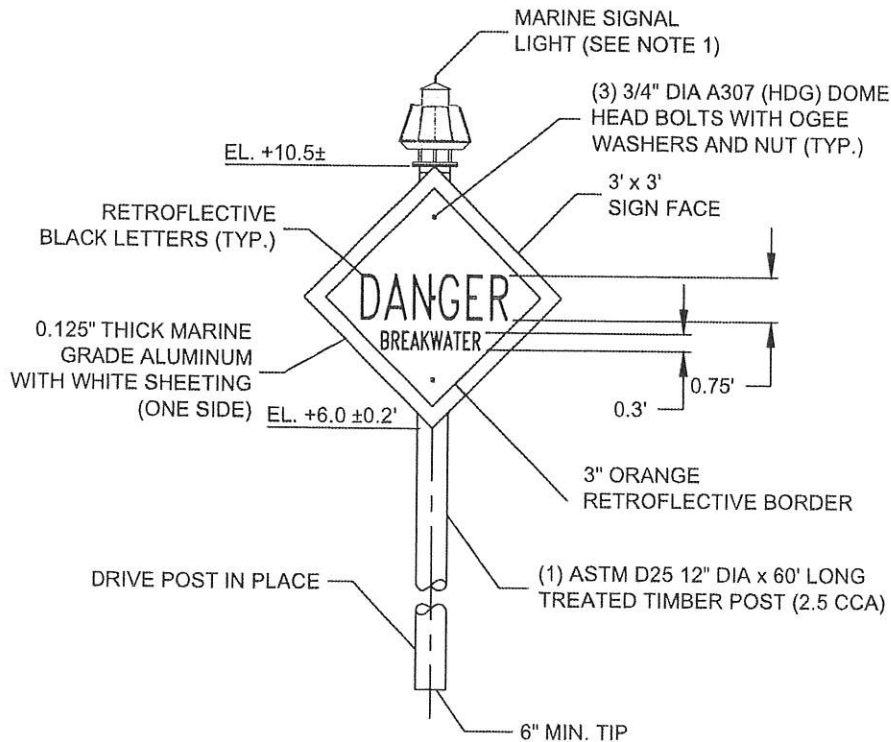
Lense: Clear

Slow Flash: 2.5 sec

Electrical Rating = 12V, 0.25A

Pedestal Length: 2.0

Solar Module: 10W



DETAIL-
LIGHTED DAYBEACON
1
12/15
SCALE: N.T.S.

1E-0018 Rockefeller Refuge Gulf Shoreline Stabilization Project

PRIVATE AIDS TO NAVIGATION APPLICATION

(See attached instructions and copy of Code of Federal Regulations, Title 33, Chap. 1, Part 66)

NO PRIVATE AID TO NAVIGATION MAY BE AUTHORIZED UNLESS A COMPLETED APPLICATION FORM HAS BEEN RECEIVED (14 U.S.C. 83; 33 CFR. 66. 01-5).

1. ACTION REQUESTED FOR PRIVATE AIDS TO NAVIGATION:	<input checked="" type="checkbox"/> A. ESTABLISH AND MAINTAIN <input type="checkbox"/> B. DISCONTINUE <input type="checkbox"/> C. CHANGE <input type="checkbox"/> D. TRANSFER OWNERSHIP	2. DATE ACTION TO START: 07/31/2020
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3. AIDS WILL BE OPERATED:	<input checked="" type="checkbox"/> A. YEAR-ROUND <input type="checkbox"/> B. TEMPORARILY UNTIL _____ <input type="checkbox"/> C. SEASONAL FROM _____ TO _____
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4. NECESSITY FOR AID (Continue in Block 8) To mark location of nearshore breakwater.	5. GENERAL LOCALITY Cameron Parish, LA	6. AUTHORIZING PERMIT FOR THIS STRUCTURE OR BUOY USACE <input type="checkbox"/> PERMIT AND/OR STATE <input checked="" type="checkbox"/> PERMIT (Valid Permit Number)
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FOR DISTRICT COMMANDERS ONLY			7. APPLICANT WILL FILL IN APPLICABLE REMAINING COLUMNS								
LIGHT LIST NUMBER	NAME OF AID	NO OR LTR (7a)	LIGHT			POSITION (7e)	DEPTH OF WATER (7f)	CANDELA (7g)	FOCAL PLANE HEIGHT (7h)	STRUCTURE TYPE, COLOR, AND HEIGHT ABOVE GROUND (7i)	REMARKS (See instructions) (7j)
			FLASH PERIOD (7b)	FLASH LENGTH (7c)	COLOR (7d)						
		101	2.5	0.3	White	29°38'14.626"N 92°46'1.888"W	4		10	Single Pile	Sign mounted to pile reads: "DANGER BREAKWATER"
		102	2.5	0.3	White	29°38'9.672"N 92°46'24.614"W	4		10	Single Pile	Sign mounted to pile reads: "DANGER BREAKWATER"
		103	2.5	0.3	White	29°38'22.440"N 92°46'54.734"W	4		10	Single Pile	Sign mounted to pile reads: "DANGER BREAKWATER"
		104	2.5	0.3	White	29°38'6.152"N 92°46'8.206"W	4		10	Single Pile	Sign mounted to pile reads: "DANGER BREAKWATER"
		105	2.5	0.3	White	29°38'27.072"N 92°47'10.983"W	4		12	Single Pile	Sign mounted to pile reads: "DANGER BREAKWATER"
		106	2.5	0.3	White	29°38'37.103"N 92°47'25.152"W	4		10	Single Pile	Sign mounted to pile reads: "DANGER BREAKWATER"

8. ADDITIONAL COMMENTS All lights are Sealite™ SL-15

9a. NAME AND ADDRESS OF PERSON IN DIRECT CHARGE OF THE AID(S) Dion L. Broussard, P.E. 635 Cajundome Blvd, Lafayette, LA	10a. NAME AND ADDRESS OF PERSON OR CORPORATION AT WHOSE EXPENSE THE AID(S) WILL BE MAINTAINED CPRA 635 Cajundome Blvd Lafayette, LA 70506	10b. THE APPLICANT AGREES TO SAVE THE COAST GUARD HARMLESS WITH RESPECT TO ANY CLAIM OR CLAIMS THAT MAY RESULT ARISING FROM THE ALLEGED NEGLIGENCE OF THE MAINTENANCE OR OPERATION OF THE APPROVED AID(S).
9b. TELEPHONE NO. (337) 482-0686		10c. DATE 07/20/2020
9c. E-MAIL ADDRESS Dion.Broussard@LA.GOV		10d. SIGNATURE AND TITLE OF OFFICIAL SIGNING

FOR USE BY DISTRICT COMMANDER		RECD	DATE APPROVED	SIGNATURE (By direction)
SERIAL NO.	CLASSIFICATION OF AIDS(S)	CHART		
		LNM		

DEPARTMENT OF HOMELAND SECURITY

U.S. Coast Guard

PRIVATE AIDS TO NAVIGATION APPLICATION

OMB Approval: 1625-0011

Expiration Date: 05/31/2021

(See attached instructions and copy of Code of Federal Regulations, Title 33, Chap. 1, Part 66)

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			FLASH PERIOD (7b)	FLASH LENGTH (7c)	COLOR (7d)					TYPE, COLOR, AND HEIGHT ABOVE GROUND (7i)	
		107	2.5	0.3	White	29°38'43.151"N 92°47'38.945"W	4		12	Single Pile	Sign mounted to pile reads: "DANGER BREAKWATER"
		108	2.5	0.3	White	29°38'48.387"N 92°47'55.927"W	4		10	Single Pile	Sign mounted to pile reads: "DANGER BREAKWATER"
		109	2.5	0.3	White	29°38'54.297"N 92°48'12.028"W	4		12	Single Pile	Sign mounted to pile reads: "DANGER BREAKWATER"
		110	2.5	0.3	White	29°39'3.190"N 92°48'31.678"W	4		12	Single Pile	Sign mounted to pile reads: "DANGER BREAKWATER"
		111	2.5	0.3	White	29°39'9.155"N 92°48'42.838"W	4		12	Single Pile	Sign mounted to pile reads: "DANGER BREAKWATER"
		112	2.5	0.3	White	29°39'16.369"N 92°48'58.290"W	4		12	Single Pile	Sign mounted to pile reads: "DANGER BREAKWATER"

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			FLASH PERIOD (7b)	FLASH LENGTH (7c)	COLOR (7d)					TYPE, COLOR, AND HEIGHT ABOVE GROUND (7i)	
		113	2.5	0.3	White	29°39'24.194"N 92°49'13.876"W	4		12	Single Pile	Sign mounted to pile reads: "DANGER BREAKWATER"
		114	2.5	0.3	White	29°39'29.792"N 92°49'29.581"W	4		12	Single Pile	Sign mounted to pile reads: "DANGER BREAKWATER"

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