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## CITY COUNCIL SPECIAL MEETING AGENDA

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Notice is hereby given that the Rockport City Council will hold a special meeting on Friday, June 26, 2015, at 6:30 p.m. The meeting will be held at Rockport City Hall, 622 E. Market, Rockport, Texas. The matters to be discussed and acted upon are as follows:

### Opening Agenda

1. Call meeting to order.

### Regular Agenda

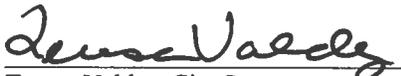
2. Hear and deliberate on submission of a grant application to the Texas General Land Office Coastal Erosion Planning and Response Act (CEPRA) for Bayshore Drive shoreline revetment.
3. Adjournment.

### Special Accommodations

This facility is wheelchair accessible and accessible parking spaces are available. Requests for accommodations or interpretive services must be made 48 hours prior to this meeting. Please contact the City Secretary's office at (361) 729-2213, ext. 225 or FAX (361) 790-5966 or email [citysec@cityofrockport.com](mailto:citysec@cityofrockport.com) for further information. Braille is not available. The City of Rockport reserves the right to convene into executive session under Government Code 551.071-551.074 and 551.086.

### Certification

I certify that the above notice of meeting was posted on the bulletin board at City Hall, 622 E. Market Street, Rockport, Texas on Tuesday, June 23, 2014, by 5:00 p.m. and on the City's website at [www.cityofrockport.com](http://www.cityofrockport.com). I further certify that the following News Media were properly notified of this meeting as stated above: *The Rockport Pilot*, *Coastal Bend Herald*, and *Corpus Christi Caller Times*.

  
Teresa Valdez, City Secretary

**CITY COUNCIL AGENDA**  
**Special Meeting: Friday, June 26, 2015**

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**AGENDA ITEM: 2**

Hear and deliberate on submission of a grant application to the Texas General Land Office Coastal Erosion Planning and Response Act (CEPRA) for Bayshore Drive shoreline revetment.

**SUBMITTED BY:** Public Works Director Michael Donoho

**APPROVED FOR AGENDA:** CJW

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**BACKGROUND:** Back in January 2015 the City Of Rockport began discussions with the Key Allegro HOA about shoreline stabilization along Bayshore Drive. The Key Allegro Canal and Property Owner's Association submitted a request to the US Army Corps of Engineers for a permit to replace two failed groins along the public portion of Bayshore Drive. Several years ago the City of Rockport installed a rock revetment along the southern portion of Bayshore Drive (Blue Heron to Finistere) to protect the public road and utilities. A portion of this revetment has undersized top cap rock that has failed and exposed the geo – textile fabric along the shoreline to weathering deterioration. The soil in this area is beginning to erode through the fabric and into the bay during significant rain and wave events. If it collapses in a storm event, Bayshore Drive and parallel utilities will be at risk. Key Allegro HOA hired Coast & Harbor Engineering to conduct a shoreline erosion and stabilization engineering study of Bayshore Drive. The study recommends the reconstruction of the two failed groins at the intersection of Bayshore and Curlew. The study specifically recommended repairing the failed rock revetment on the south end of Bayshore.

The City Council received information on the Bayshore Drive shoreline revetment project at the Council Workshop on June 23, 2015.

Coast & Harbor Engineering is assisting in the submission of a grant request on behalf of the City of Rockport for Texas General Land Office CEPRA funding to be used for this project. The grant application is attached hereto, as well as the accompanying excerpts of the HOA's report. The grant application is due July 1, 2015.

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**FISCAL ANALYSIS:** \$176,000 is the City's match amount as stated in the grant application.

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**RECOMMENDATION:** Staff recommends approval of grant application submission.



CEPRA Project No.: \_\_\_\_\_  
(Agency Use Only)

# PROJECT GOAL SUMMARY (PGS) APPLICATION FORM

For Erosion Response Project Funding Under the  
Coastal Erosion Planning and Response Act (CEPRA) Cycle 9

*Potential project partners must submit all required information using this form.*

## Applicant Information

Application Type:  Regular Submission  Emergency Submission

If emergency submission, briefly explain the emergency situation the project proposes to mitigate:

Project will repair the existing revetment that has failed, leaving the shoreline, Bay Shore Drive, and infrastructure susceptible to substantial damage during a storm event. The compromised stone revetment structure will continue to deteriorate if not addressed.

PGS Application Submittal Date (mm/dd/yy): 06/16/15      Date Received: \_\_\_\_\_  
(Agency Use Only)

Project Title: Key Allegro Revetment Repair

Name of Potential Project Partner: City of Rockport

Physical Address: 622 E. Market Street

City: Rockport                      Zip+4: 78382-

### Point of Contact (POC):

Name: Mike Donoho

Title: Public Works Director

Phone: 361-790-1160                      ext.:                      Fax: - -

Email: publicworksdirector@cityofrockport.com

### Authorizing Official (if different from POC):

Name:

Title:

### Project Type (check all that apply)

- |  |  |
|--|--|
| <input type="checkbox"/> Beach Nourishment               | <input type="checkbox"/> Dune Restoration                |
| <input checked="" type="checkbox"/> Shoreline Protection | <input type="checkbox"/> Marsh Restoration or Protection |
| <input type="checkbox"/> Debris Removal                  | <input type="checkbox"/> Storm Damage Mitigation Project |

**PROJECT GOAL SUMMARY (PGS) APPLICATION FORM**  
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- Post-Storm Damage Assessment Project  
 Study/Research Project       Demonstration Project  
 Other (describe):

For proposed Construction phase projects does the applicant propose to be the lead project partner?

Yes     No

**For Beach Nourishment and Dune Restoration Projects only:**

Does project incorporate beneficial use of dredged material (BUDM)?

Yes     No

Is a sand source identified for beach nourishment?

Yes     No

If "Yes" to either of the above two questions, please respond to the following:

1. Location of sand source:
2. Owner of sand source:
3. Cost of sand per cubic yard:

4. Is the source permitted by the US Army Corps of Engineers?     Yes     No

If no, please attach, if available:

- a. sieve analysis of sand
- b. chemical analysis of sand
- c. archeological survey of borrow area
5. Quantity of sand available (cubic yards):
6. Describe any availability restrictions:

**Project Length**

For Beach Nourishment and Shoreline Protection projects, length of project in linear feet:  
 approximately 815 ft

For Marsh Restoration projects, length of protective barrier in feet and acreage of marsh  
 being protected:  
 N/A

**Project Location**

County or counties where project is located: Aransas County

State Representative name(s) /district(s) where project is located: Geanie Morrison/House  
 Distric 30

State Senator name(s) /district(s) where project is located: Lois W. Kolkhorst/Senate  
 District 18

US Congressional Representative name(s) /district(s) where project is located: Blake  
 Farenthold/Congressional District 27

**Erosion Rate at Project Location**

Describe the erosion rate (feet/year) in the vicinity of the project: Approximately 1.3 ft/yr

## PROJECT GOAL SUMMARY (PGS) APPLICATION FORM

For Erosion Response Project Funding Under the  
Coastal Erosion Planning and Response Act (CEPRA) Cycle 9

NOTE: Historical average erosion rate data for Texas Gulf-facing shoreline is found in the Texas Shoreline Change Atlas, published online by the University of Texas at Austin Bureau of Economic Geology at <http://igor.beg.utexas.edu/SCA/>

### Funding Summary

Total CEPRA Funds Requested: \$264,000

Total Partner Federal Match Funding: \$0

Total Partner Non-Federal Match Funding: \$176,000

Total Project Cost: \$440,000

### Sources of Match Funding

In the table below, list secured sources of match funding including any federal funding sources, and in-kind services. For each source indicated below, include a signed document on the funding organization's letterhead that indicates approved funding amount; funding availability date; funding expiration date; and other constraints, if applicable. **For any committed funding sources indicated in the table below, please include a funding commitment letter or other documentation substantiating the commitment of funding and / or in-kind services. Do not include requested CEPRA Cycle 9 funding in this table.**

Funding Source for Match	Cash Amount	In-Kind Amount	Is funding committed for the Cycle 9 biennium? (Y/N)	Funding Availability Date (mm/dd/yy) Ex:02/02/15	Funding Expiration Date (mm/dd/yy)	Other Constraints (describe)
City of Rockport	\$176,000	\$	<input checked="" type="radio"/> Y <input type="radio"/> N	XXXXX	XXXXXXXX	XXXXXXXX
	\$	\$	<input type="radio"/> Y <input checked="" type="radio"/> N			
	\$	\$	<input type="radio"/> Y <input checked="" type="radio"/> N			
	\$	\$	<input type="radio"/> Y <input checked="" type="radio"/> N			
<b>TOTALS</b>	\$176,000	0				

### Hazard Mitigation Eligibility

Is there a Hazard Mitigation Plan in place for the proposed project area?

Yes  No

If yes, name of local jurisdiction responsible for hazard mitigation:

Is the proposed project eligible for FEMA disaster Public Assistance or mitigation funds under the Hazard Mitigation Grant Program?

Yes  No

## PROJECT GOAL SUMMARY (PGS) APPLICATION FORM

For Erosion Response Project Funding Under the  
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### **Project Description** (500-word limit)

Provide a narrative of the project description that addresses each of the following:

1. Describe the location and geographic scope of the erosion problem:

Key Allegro is located in Aransas County. The project shoreline is located along Aransas Bay, north east of Aransas Pass. The length of the project shoreline is approximately 815 feet along Bayshore Dr from Albatross Ln up to Paisano Ln. The revetment along this shoreline has been damaged and the geotextile below the rock structure has been exposed in several places. If the revetment is allowed to fail, the shoreline will continue to erode causing damage to Bay Shore Drive and adjacent utilities.

2. Describe the desired outcome(s) of the proposed project:

The goal of this project is to restore existing shoreline stabilization structures in order to protect the adjacent hurricane evacuation route, Bayshore Dr. The new structure will re-stabilize the shoreline and protect the adjacent public roadway and existing utilities.

3. Discuss any prior erosion response work, including a listing of any known erosion response studies and investigations in the vicinity of the proposed project, and whether the proposed project complements existing erosion response measures:

A riprap revetment and sheetpile groins were constructed along the shoreline to reduce the erosion in this area. The both the revetment and groins are in critical condition and have begun to fail.

4. Describe the proposed work sequencing including, if applicable, whether the proposed project will be divided into phases (e.g. reconnaissance study, preliminary engineering, alternatives analysis/feasibility study, permitting, engineering design, construction):

A reconnaissance study and preliminary engineering was performed by Coast and Harbor Engineering in 2014 which included a preliminary alternatives analysis and feasibility study. The proposed project will involve permitting, preliminary and final design, bidding, construction, and construction oversight of the revetment repair.

5. Recommend the preferred erosion response alternative that would address the problem, if known:

The preferred alternative would be to repair the existing revetment along the project shoreline.

### **Project Benefits**

Describe the effect and benefits of the proposed project on public safety, beach access and public infrastructure, and property threatened by erosion:

The proposed project will benefit the public infrastructure by preventing shoreline erosion. This in turn will protect Bay Shore Drive, a hurricane evacuation route for Key Allegro. Beach access will not be affected by the project as it will cover the footprint of the existing revetment in this location.

**PROJECT GOAL SUMMARY (PGS) APPLICATION FORM**

For Erosion Response Project Funding Under the  
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Describe the effects and benefits of the proposed project on private infrastructure and property threatened by erosion:

The erosion that would result from not implementing the project would ultimately result in the loss of public land along Bayshore Dr. The implementation of the proposed project would protect the shoreline from erosion which would in turn protect adjacent property.

Describe the effects and benefits of the proposed project on natural resources threatened by erosion:

N/A

Describe whether the proposed project will provide for the beneficial use of dredged material from the construction and maintenance of navigation inlets and channels of the State:

N/A

Describe how project costs are reasonable relative to benefits (i.e. number of acres of restored wetlands per dollar spent):

The cost of the project implementation will be offset by the project benefits such as the protection of a portion of Bay Shore Drive over a length of 815 feet, and protection of public utilities, and infrastructure in the vicinity of the project site. Costs to rehabilitate the road, replace utilities, and repair a heavily damaged shoreline far exceed the cost of project implementation.

**Project Permitting**

List all required local, state, and federal permits that have been or will need to be acquired to undertake the proposed project:

Permit Type	Estimated Date of Receipt (mm/dd/yy) Ex: 02/02/15	Who will obtain permit?
USACE Nationwide	01/01/2016	City of Rockport

Elaborate on any known permitting or regulatory issues that will need to be addressed:

Since there is an existing revetment, the repair work may fall under the previously authorized project. If not, a USACE permit would be required as there would be rock fill below the jurisdictional waterline.

## PROJECT GOAL SUMMARY (PGS) APPLICATION FORM

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For proposed Gulf beach projects, describe how the proposed project will comply with the local beach and dune protection plan and floodplain administration:

### Project Phasing and Timeline

Is this project a single-phase project or one phase of a multi-phase project?

Single-Phase Project

One phase of a multi-phase project

Can the project or phases proposed in this application be completed between 9/1/2015 and 8/31/2017?

Yes  No

Describe the phases of the proposed project, if applicable, including a description of the phases that would extend into future funding cycles:

The proposed project will be executed in a single phase under the following tasks:

#### Task 1- Data Collection

Under this task data will be collected in support of the preliminary and final design. Data collected will include topographic and bathymetric surveys.

#### Task 2 - Engineering Design

Under this task permitting and preliminary and final design will be performed in preparation of the development of construction documents, The construction documents will include plans, specifications, and cost estimate for solicitation of contractor bids.

#### Task 3 - Construction

Under this task the project will be constructed to include all components necessary for the revetment repair.

Describe potential delays due to permitting timelines, habitat issues, tourist season, endangered species provisions, or approval process timelines from local governing bodies: No delays are anticipated for the permit necessary for the proposed project.

Does an adequate financial infrastructure exist to maintain the project and perform post-project monitoring?

Yes  No

If yes, please describe: Need to describe city's maintenance funding that would be available (not part of this grant). Also, post project monitoring would involve periodic visual inspections and photo documentation. Results of periodic inspections would be summarized in a technical memo format.

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For Erosion Response Project Funding Under the  
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**Public Support/Other Supporting Documentation**

**Documentation of Public Support**

Attach to this application, letters of support you have received from potential co-sponsors, elected officials, affected jurisdictions, and stakeholders documenting support for the project.

**Project Location Map**

Attach to this application a map with sufficient detail to show the specific geographic location and boundary of the proposed project.

Date

Commissioner George P. Bush  
Texas General Land Office  
P.O. Box 12873  
Austin, TX 78711-2873

RE: Emergency Revetment Repair

Please accept this letter of support for the Key Allegro Revetment Repair Project. A Project Goal Summary (PGS) was submitted to the Texas General Land Office requesting erosion response project funding from Cycle 9 Coastal Erosion Planning and Response Act (CEPRA) Program.

The goals of this project are to design and construct repairs to a failing stone revetment in order to maintain protection of Bay Shore Drive, water and electrical utilities, and public infrastructure landward of Bay Shore Drive. The existing revetment along Bay Shore Drive is currently in a compromised state and is no longer functioning as designed as shore protection. The revetment repair will consist of repairing geotextile, excavating displaced stone, and replacing entire sections as necessary to stabilize the existing shoreline and stop erosion. The project will be implemented to protect Bay Shore Drive, a hurricane evacuation route for Key Allegro residents.

I fully support this project. Should you have any questions, please don't hesitate to contact me at XXX-XXX-XXX ext XXX. Thank you for your consideration for this important project.

Sincerely,

Name

Affiliation

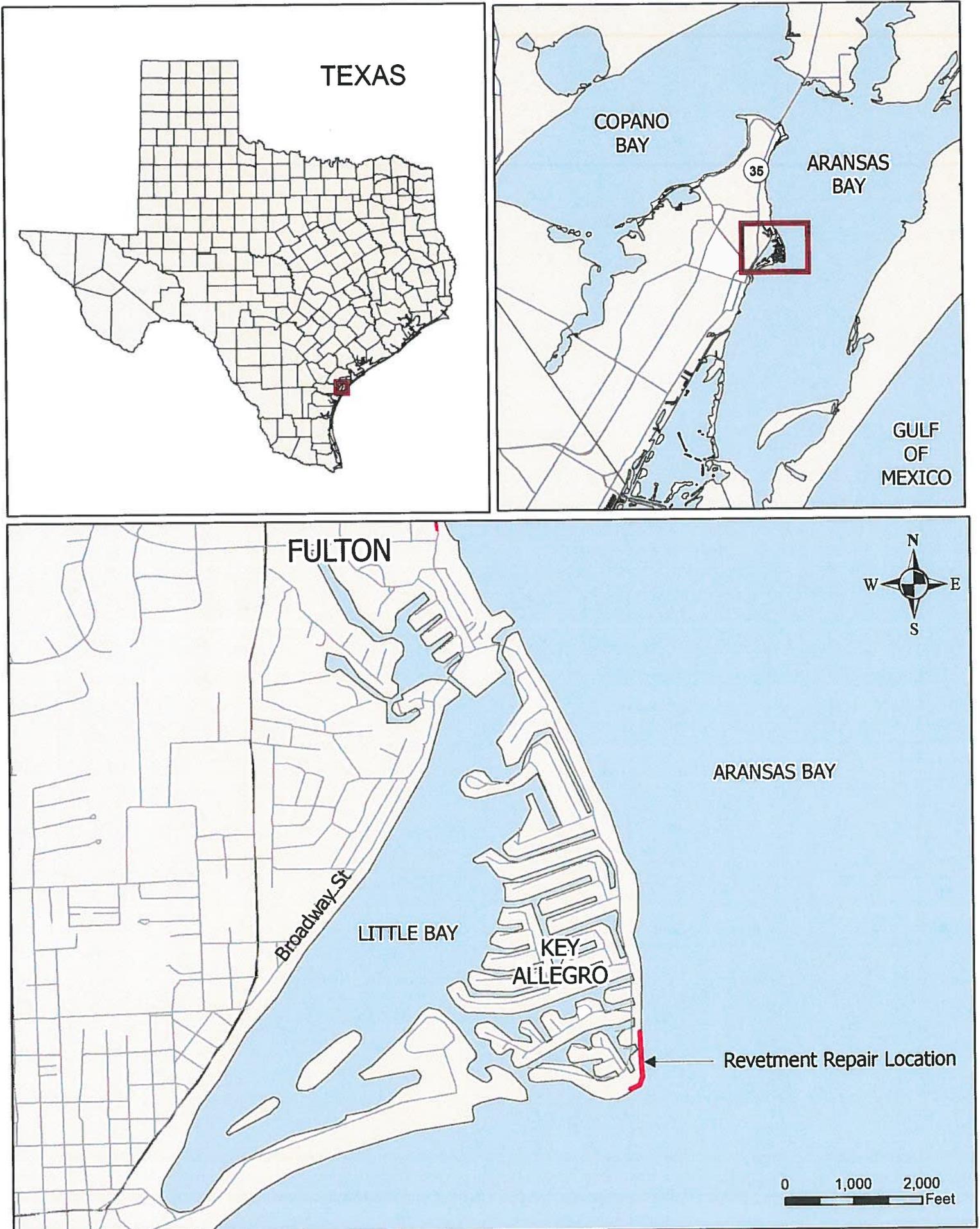
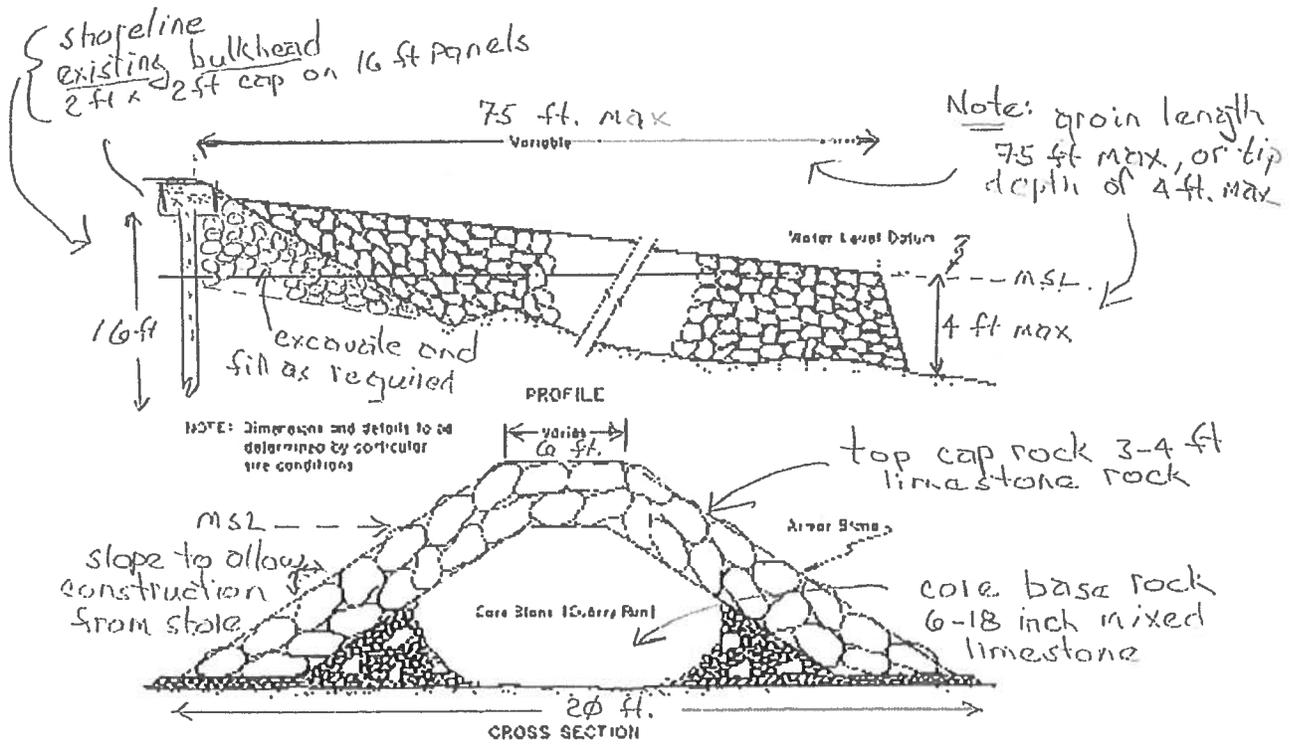


Figure 1. Key Allegro Shoreline Stabilization Project Location Map.



Key Allegro  
Groins  
replace existing  
with rock.



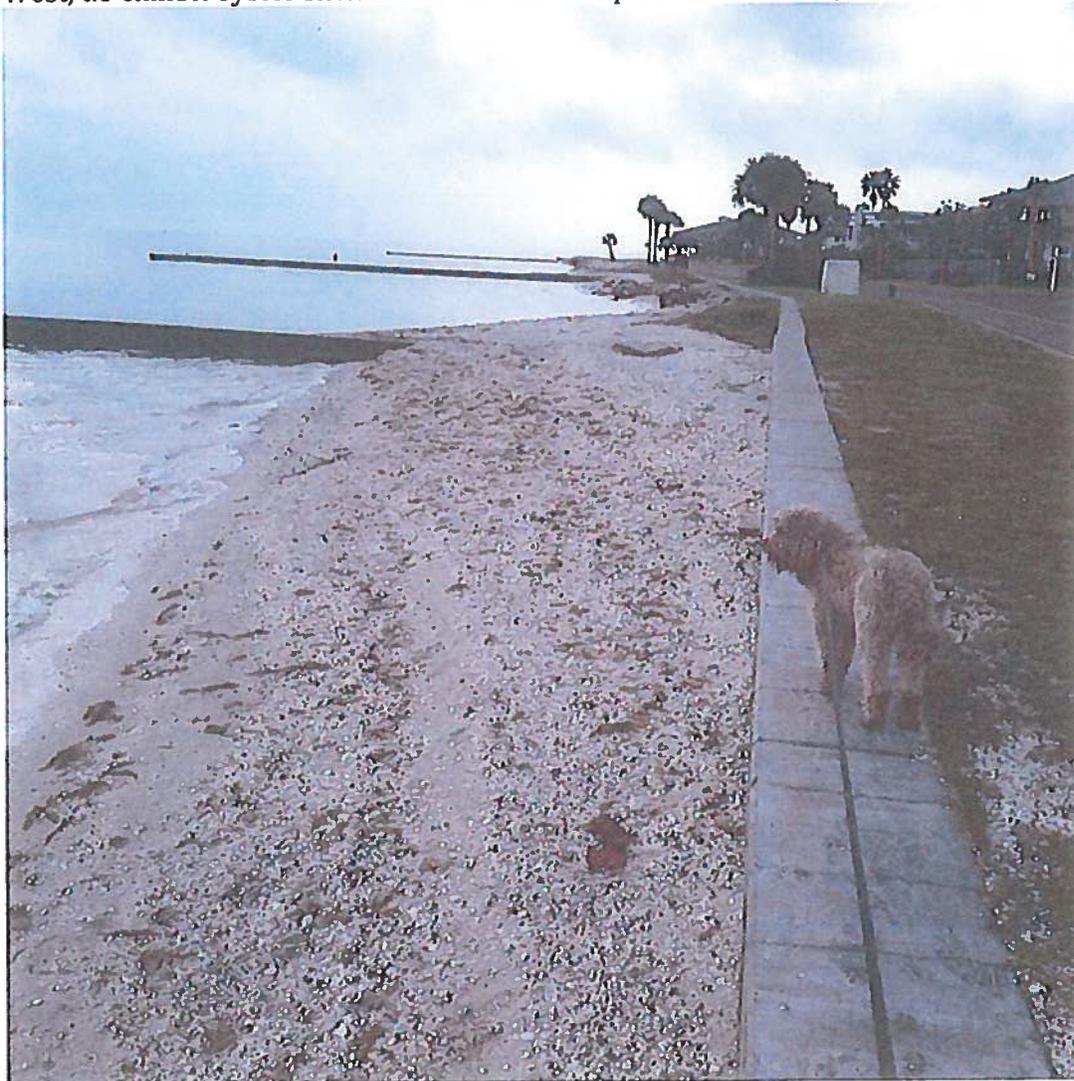
D.B. McDaniel/  
4 Dec. 2011

### **Key Allegro Groins - Environmental Impact**

The Coast & Harbor Engineering study dated 10 September 2014 indicates that groins along the Key Allegro Bayshore drive are effective at trapping sediment if they are oriented in an easterly direction. And only where there is existing shoreline hardening (bulkhead, rock revetment, etc.)

Littoral transport of sand sediment is essentially non-existent along this coast due to the 2 bounding, dredged channels, Blevins channel to the north and Leggett Channel to the south. Historical erosion and loss of land has resulted by the strong NE and SE wind events pulling the sediment offshore. Strong NE winds in the winter and SE winds in the summer dominate the erosion along this coast. Wave numerical modeling indicates "wave shadowing" can occur during both of the these events with an East oriented groin.

Even though there is very limited littoral sand drift, the existing groin field where oriented East-West, do exhibit oyster shell accretion. See the pictures attached;

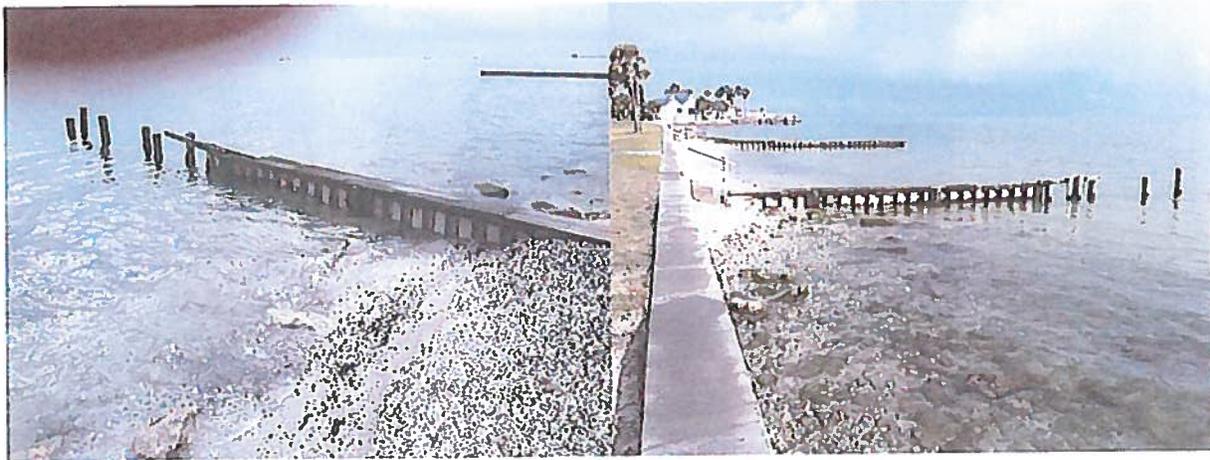




The creation of this “public beach” both protects the shore line structure (and public utility easement) from failure and creates a public recreational opportunity. The existing groin system indicates that proper groin orientation and shoreline hardening creates a stable and growing oyster shell beach.

The project proposes to replace 2 failed groins, constructed out of vertical sheet panels and timber with 100% rock groins. The 2 failed groins are an eyesore and provide minimal benefit. The referenced engineering study, indicates that vertical faced groins actually reflect wave energy onto the shoreline and contribute to erosion of the accreted shell offshore. A rock groin will absorb wave energy and not reflect it. In addition to wave energy mitigation, the Rock groin itself will create a fish habitat, where there is only sand shell bottom now.

Photos of the 2 existing failed groins are below:



These failed groins were approximately 75 ft in length. Study of the existing groin field and wave modeling suggests this is the optimum length. These failed structures will be removed and replaced with a tiered rock groin designed to withstand the NE and SE strong wind events. They will be constructed from the shore side, progressing out. The end result will be about a 20 ft by 75 ft footprint. It is anticipated that shell accretion around these new structures will develop rapidly, creating a public and marine environmental benefit.

Additionally it is important to note at the Key Allegro groin field consisted of 53 groin structures of different lengths, orientation, material, all in various stages of failure. Building these 2 rock groins in the optimal East orientation will provide valuable input to future decisions on the remaining groin field.

**Key Allegro Canal and Property Owner's Association, Inc.  
c/o Key Allegro Coastal Luce Properties  
1809 Bay Shore Drive  
Rockport, Texas 78382**

**US Army Corps of Engineers  
Galveston District, Corpus Christy Regulatory Office  
5151 Flynn Parkway, Suite 306  
Corpus Christi, Texas 78411-4318**

**Attention: Mathew L. Kimmel - Project Manager**

**Subject: Request for permit to replace and construct 2 failed groins**

Dear Sir;

Pursuant the conversation we have had with yourself and the COE concerning the failed groins on Key Allegro, we submit the following request. Specifically we request a "standard permit" to remove 2 failed sheet pile groins and replace them with rock groins. This memo clarifies some design modifications to our existing COE permit application # SWG201300779.

To arrive at this recommendation The KACPOA commissions an engineering study of the full Aransas Bay shoreline of Key Allegro. This study by Coast and Harbor Engineering has been provided to you and forms the basis for this request. Key Allegro's Aransas Bay front shoreline has experience considerable erosion over time, and is composed of both public and private lands. To combat the erosion in addition to various "Shoreline hardening structures, a groin field consisting of 53 groins was installed over time. These groins are all in various stages of failure. The CHE study indicated that groins orientated East-West and constructed to dissipate wave energy are effective at both protecting shoreline structures and growing shell beach.

2 failed groins, in front of public land, and help protect public utility easements, are failed eyesores and are oriented to the east for optimum benefit. These are located on the southern end of Bayshore Drive at the intersection of Curlew drive on Key Allegro. The KACPOA seek to replace these with more efficient rock groin structures. This request replaces the existing permit request through Floyd Clark Construction (COE permit # SWG201300779) for repair of failed groins on Key Allegro.

Attached are 2 supporting documents:

1. Key Allegro Groins - Environmental Impact
2. Key Allegro Groin Design

Michael Mahoney  
Key Allegro Permit Manager  
621 S. Fulton Beach Rd., #200  
Fulton Point Office Bldg.  
[mkmplm@gmail.com](mailto:mkmplm@gmail.com), 361-463-1168,