



SWG-2005-00696

**Cape Velero Estates
Home Owners
Association**

**Project Vicinity Map
Boating Improvement Project
Aransas County, Texas**

USGS 15-Min. Quadrangle; Beeville, TX
Scale: 1:100,000



GAI
Greminger and Associates, Inc.
environmental planning and permitting consultants

Greminger & Associates, Inc.
32 South Pointe Circle
Rockport, Texas 78382

FIGURE 1

DATE: 04/19/2023

GAI Project No. 221132



SWG-2005-00696

**Cape Velero Estates
Home Owners
Association**

**Project Location Map
Boating Improvement Project
Aransas County, Texas**

USGS 7.5-Min. Quadrangle; Bayside SE & Rockport, TX
Scale: 1:24000



GAI
Gremlinger and Associates, Inc.
environmental planning and permitting consultants

Gremlinger & Associates, Inc.
32 South Pointe Circle
Rockport, Texas 78382

FIGURE 2

DATE: 04/20/2023

GAI Project No. 221132



**Cape Velero Estates
Homes Owners Association**

**Project Overview Aerial
Boating Improvement Project
Aransas County, Texas**

Source: Terrain Navigator Satellite Photography; 2017
Scale: 1:5750

Gremminger & Associates, Inc.
32 South Pointe Circle
Rockport, Texas 78382

FIGURE 3

DATE: 4/20/2023

GAI Project No. 211132



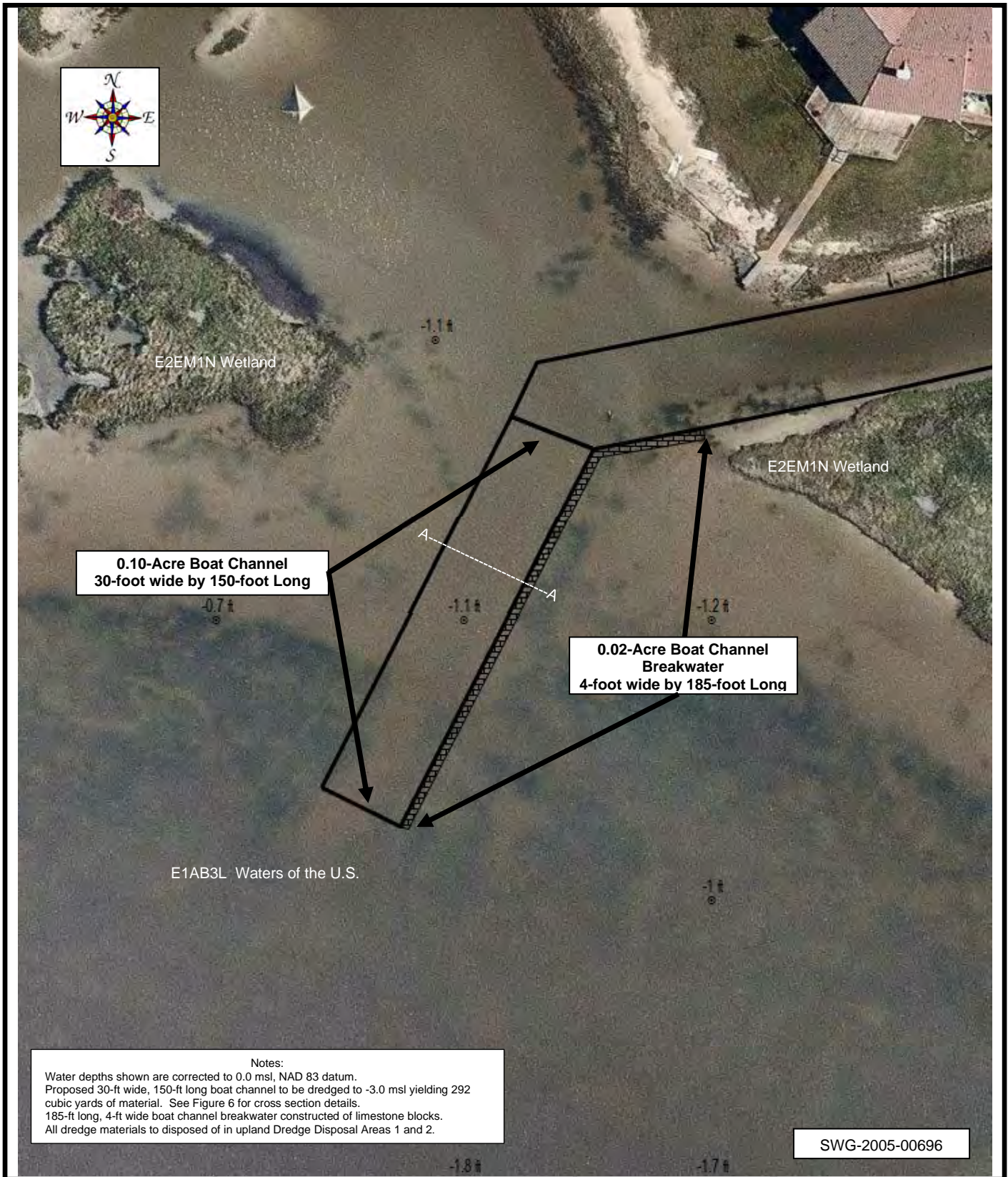
SWG-2005-00696

**Cape Velero Estates
Homes Owners Association**

**Boating Improvement Project
Aransas County, Texas**
 Source: Terrain Navigator Satellite Photography; 2017
 Scale: 1:2750

GAI
 Gremminger and Associates, Inc.
 environmental planning and permitting consultants
 Gremminger & Associates, Inc.
 32 South Pointe Circle
 Rockport, Texas 78382

FIGURE 4
 DATE: 04/20/2023
 GAI Project No. 221132



**Cape Velero
Estates Home
Owners
Association**

**Boat Channel Detail Aerial
Boating Improvement Project
Aransas County, Texas**

Source: Terrain Navigator Satellite Photography: 2017
Scale: 1:564

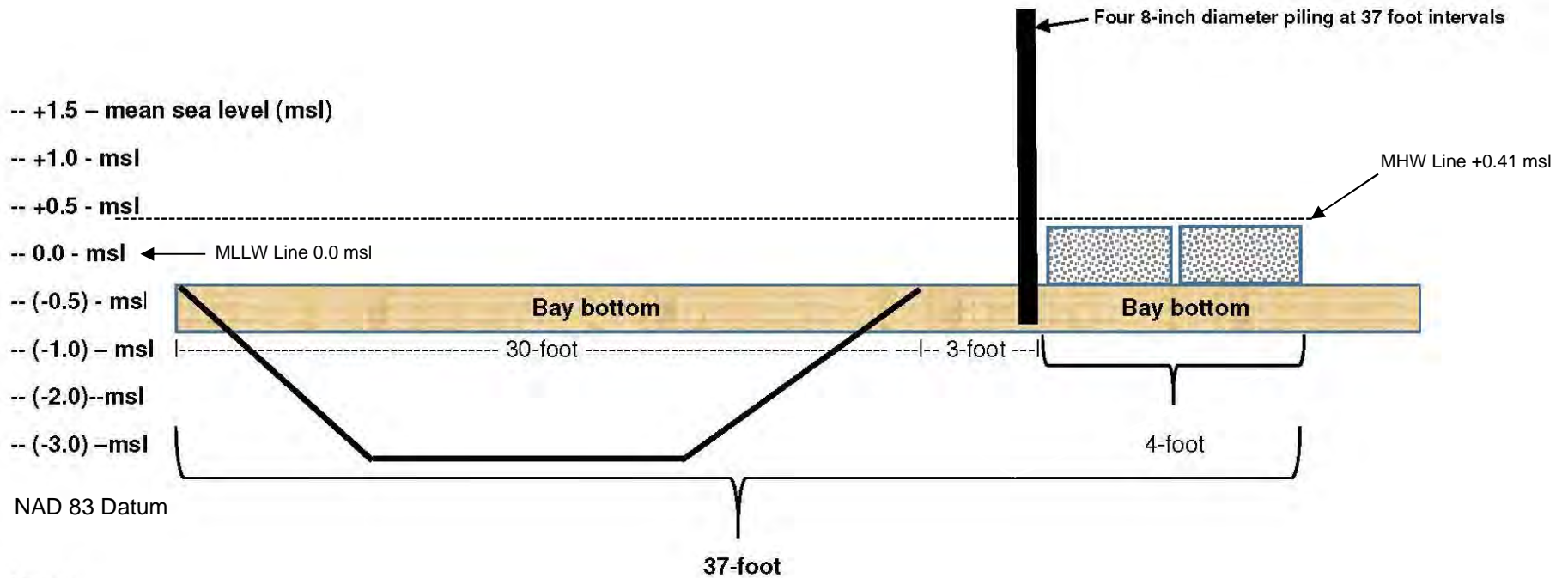


FIGURE 5

DATE: 04/20/2023

GAI Project No. 221132

SWG-2005-00696



Notes: Proposed 30-ft wide, 150-ft long boat channel to be dredged to -3.0 msl yielding 292 cubic yards of material. All materials to be disposed of in upland Dredge Disposal Areas 1 and 2. For planning and permitting purposes only. Minor variances could occur during construction. The permittee is proposing to fill 0.01 acres of bay bottom below the average high tide line for a breakwater to decrease sedimentation of the proposed channel and to place substrate for establishment of oysters and create fish habitat. The permittee will install a turbidity curtain around the construction area to protect adjacent resources until excavation and material placement is finished and turbidity has settled. Breakwater material will consist of two rows of limestone blocks 2-foot square that are 5-ft in length.

Cape Velero Estates
Homes Owners Association

Proposed Boat Channel and Breakwater Cross Section A-A
Boating Improvement Project
Aransas County, Texas



Gremminger & Associates, Inc.
32 South Pointe Circle
Rockport, Texas 78382

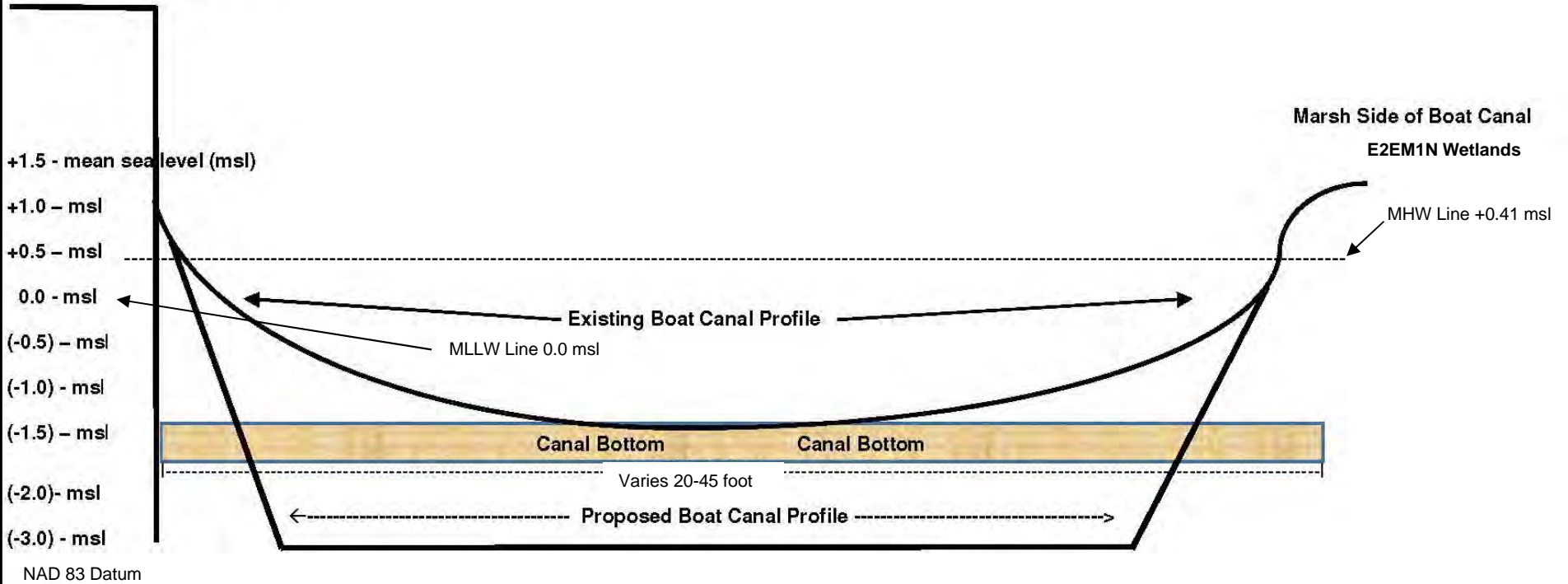
FIGURE 6

DATE: 04/20/2023

GAI Project No. 221132

SWG-2005-00696

Residential Side of Boat Canal



Notes:
 For planning and permitting purposes only.
 1.5:1 slope cut of boat canal sides.
 Minor variances could occur during construction.
 The permittee will install a turbidity curtain around the construction area until excavation and material placement is finished and turbidity has settled to protect adjacent resources.
 Existing 1.97-acre boat canal and basin area dredged to -3.0 msl yielding 6,356 cubic yards of material
 All dredge materials to be disposed of in upland Dredge Disposal Areas 1 and 2.

**Cape Velero Estates
Homes Owners Association**

**Existing Boat Canal Cross Section B--B
Boating Improvement Project
Aransas County, Texas**
Not to scale

GAI
Gremminger and Associates, Inc.
environmental planning and permitting consultants
Gremminger & Associates, Inc.
32 South Pointe Circle
Rockport, Texas 78382

FIGURE 7
DATE: 04/20/2023
GAI Project No. 221132



**Cape Velero
Estates Home
Owners
Association**

**Proposed Boat Launch Pier Additions
Boating Improvement Project
Aransas County, Texas**

Source: Terrain Navigator Satellite Photography, 2017
Scale: 1:564

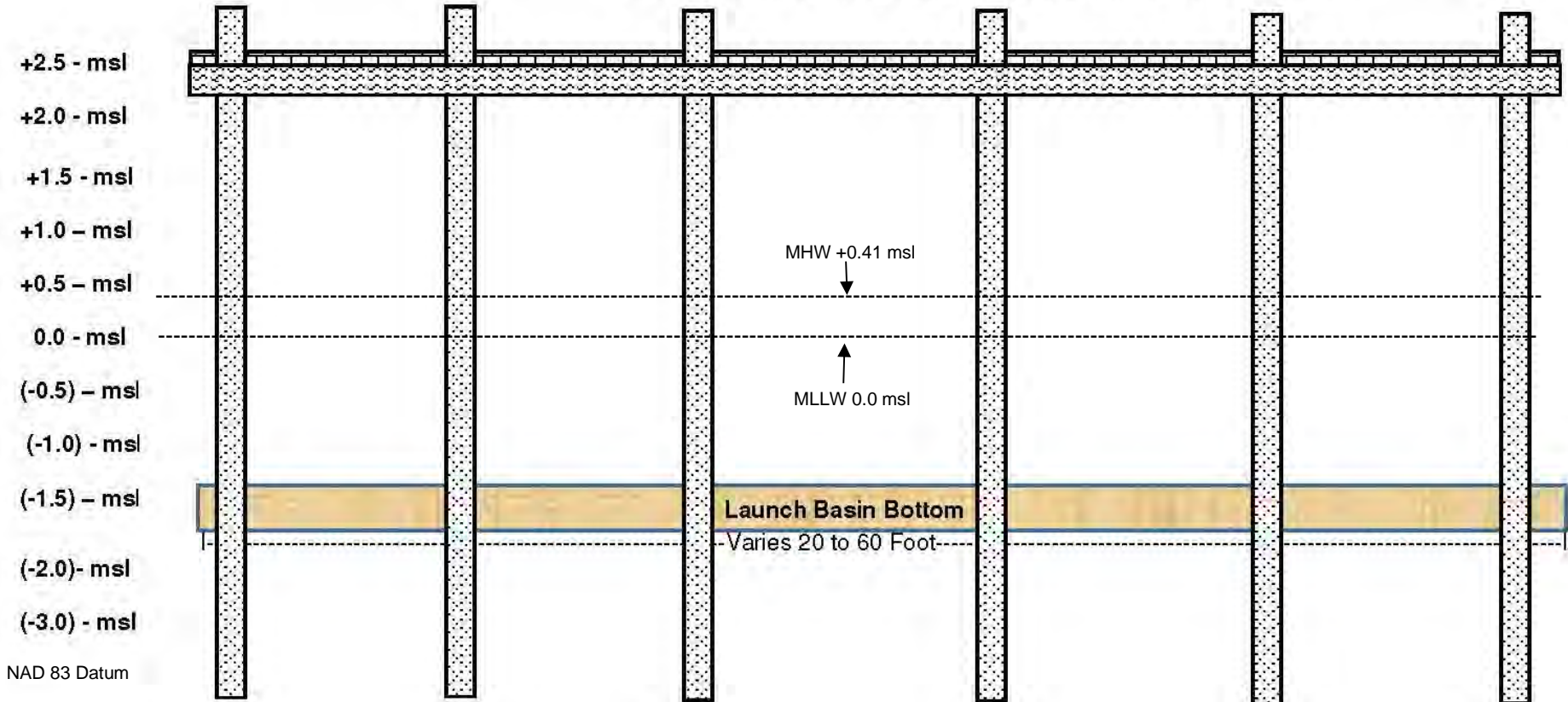


FIGURE 8

DATE: 04/20/2023

GAI Project Number: 221132

8-Inch Diameter Treated Piles set on Four Foot Centers
2x10 Treated Stringers, with 2x6 Treated Deck Boards



Notes:
For planning and permitting purposes only.
msl: elevation in mean sea level
Support piling will be driven by a drop weight operated off a small barge
Piling set 4-Foot into mud line
Minor variances could occur during construction.

SWG-2005-00696

Cape Velero Estates
Homes Owners Association

Pier Construction Typical Cross Section
Boating Improvement Project
Aransas County, Texas



Gremminger & Associates, Inc.
32 South Pointe Circle
Rockport, Texas 78382

FIGURE 9

DATE: 11/17/2022

GAI Project No. 221132



**Cape Velero
Estates Home
Owners
Association**

**Proposed Living Shoreline Mitigation
Structure
Double Row of 36-Inch Reef Balls
3-Foot Edge to Edge Offset**

Source: Terrain Navigator Satellite Photography, 2019
Scale: 1:564, and
Google Image of Reef Ball Installation 2022



FIGURE 10

DATE: 11/17/2022

GAI Project Number: 221132