



Fort Myers Beach Management & Planning Session

Diamondhead Beach Resort
2000 Estero Blvd.
Fort Myers Beach, FL 33931

Agenda

Thursday, May 4, 2023
ORDER OF BUSINESS

9:00 AM

I. CALL TO ORDER

II. PLEDGE OF ALLEGIANCE

III. ITEMS FOR DISCUSSION

- A. Laguna Channel Dredge Project
Laguna Channel Dredge Project
- B. Presentation: Tidal Basin
Hurricane Ian Recovery Update
- C. Presentation: FEMA
FEMA Community Assistance Recovery Support Function (CARSF)
- D. Resilient Lee projects

IV. AGENDA MANAGEMENT

May 2023

V. ADJOURNMENT

NOTE: THIS MEETING IS STREAMED LIVE ON YOUTUBE.

IF A PERSON DECIDES TO APPEAL A DECISION MADE BY THE COUNCIL IN ANY MATTER CONSIDERED AT THIS MEETING/HEARING, SUCH PERSONS MAY NEED TO ENSURE THAT A VERBATIM RECORD OF THE PROCEEDING IS MADE, TO INCLUDE THE TESTIMONY AND EVIDENCE UPON WHICH ANY SUCH APPEAL IS TO BE BASED.



For special accommodations, please notify the Town Clerk's Office at least 72 hours in advance. (239) 765-0202

In accordance with the Americans with Disabilities Act (ADA), persons needing a special accommodation to participate in the Board's proceedings should contact the Town Clerk's Office not later than three days prior to the proceedings.

1. **Requested Motion:**

Meeting Date: May 4, 2023

Laguna Channel Dredge Project

Why the action is necessary:

Property owners in Laguna Shores and Marina Towers cannot access the Gulf with a boat from their property.

What the action accomplishes:

2. **Agenda:**

ITEMS FOR DISCUSSION

3. **Requirement/Purpose:**

5. **Background:**

Residents of the Laguna Shores neighborhood have requested that the Town dredge Laguna Channel.

A timeline of the various dredge projects in the area is attached. The channel was last dredged in 2012.

Based on the 2020 bathymetric survey, the approximate volume of material to be removed is 5,472 cubic yards. The original dredge volume was 6,460 cubic yards. This design template has a depth of -7' ML W. The infill amount constitutes approximately 84.7% of the original volume. The infill rate based on the survey is approximately 995 cubic yards per year.

An updated bathymetric survey is needed to estimate the volume to be dredged. In addition, sediment testing is needed to determine if the material is beach compatible.

The previous project was funded by taxing benefiting properties in the Laguna Shores neighborhood and the Marina Towers Condo.

FEMA will only pay for additional infill caused by hurricane Ian. Therefore, the Town is expected to pay for most of the project cost.

Town Staff is seeking Council's direction on funding a future dredge project.

Attachments:

1. Fmb3Recap2-11-20
2. 2020SEPT24 - Laguna Shores Channel Dredge Monitoring downsized
3. 194642-009 EE DRAWINGS
4. Previously Assessed Benefitting Properties

Financial Impact:

Approximately \$600,000

6. **Alternative Action**

Do not dredge Laguna Channel.

7. Staff Recommendations:

Obtain an opinion of probable cost based on the bathymetric survey. If the material is beach compatible, then it can be used to nourish the beach. This would decrease cost associated with trucking the material off island.

8. Recommended Approval:

Steve Poposki, Community Development Director

Date: April 25, 2023

John R Herin Jr, Town Attorney

Date: April 26, 2023

Amy Baker, Town Clerk

Date: April 26, 2023

Keith Wilkins , Interim Town Manager

Date: April 26, 2023



Marine Engineers and Environmental Consultants

2001 – HWA contracts with the Town of Ft. Myers Beach to assess three waterfront communities for improvements to navigational access. They included Marina Towers, the connection between Big Carlos Pass and Bucaneer Lagoon (Laguna Shores Channel), and placement of the dredged material in front of the Carlos Point Condominium to ameliorate erosion conditions. Results precipitate in interest by the Town on how to evaluate and fund dredging projects around the island.

2002 – An Environmental Resource Permit application was submitted to the Dept. of Environmental Protection (DEP) and the U.S. Army Corps of Engineers (COE) for the Marina Towers and Carlos Point project as well as applications submitted for creating a connecting channel between Big Carlos Pass and Buccaneer Lagoon (Laguna Shores Channel).

2003 – Permits issued for Marina Towers dredging and material placement in front of Carlos Point Condominium. HWA contracts with the Town of Ft. Myers Beach to develop an assessment methodology for the canals on Estero Island. Public workshop held in January to allow for public input on canal maintenance priorities on Estero Island. Final methodology and petition notebook submitted for Town use in April.

2004 – Worked through public interest issues with DEP regarding Laguna Shores Channel. Collaboration with Town staff on funding methodology. Hurricane Charley impacts Canal 15 (Yachtsmans Cove) requiring emergency dredging and associated permits. December Town staff makes funding recommendation to Town Council.

2005 – Permits issued for dredging of Canal 15 (Yachtsmans Cove) with cost share between residents and Town per policy. Project completed by Stemic Enterprises, Inc. Permit applications to the DEP and COE for Laguna Shores modified for southern alignment (least preferred/most likely to fail) per direction from DEP and agreement by Town Council.

2006 – Ongoing negotiations on public interest associated with Laguna Shores channel. DEP and COE permits issued for dredging Laguna Shore channel.

2007 – Received USCG channel marker permits, FWCC seagrass and manatee sign permits.

2008 – HWA authorized to move forward with construction plans and technical specifications for dredging Laguna Shores Channel. Bids received from marine contractors. Florida Marine Construction hired to excavate the channel. Construction begins end of December.

2009 - Construction completed in February. The channel had filled in and became non-navigable by the end of the year (see attached Town staff memo).

2010 – Work begins on re-permitting the northern alignment option direct to Buccaneer Lagoon channel. Channel alignment mapped for resources.

2011 – Continued to provide technical support to Town staff in re-designing the access channel, collecting core borings, WCIND funding application, and relocation of channel markers. HWA contracted to prepare construction plans and specifications for the alternative alignment. DEP permit issued for new channel location.

2012 – COE permit issued for new channel location. Contractor bids received, ZEP Construction, Inc. contracted to construct the new channel with Kelly Brothers sub-contracted by ZEP to perform the work. Work completed by year end.

2013 – Construction final certifications completed. One year post dredging monitoring completed 12-28-13.

2015 – Second annual monitoring completed (1-15-15).



Marine Engineers and Environmental Consultants

September 24, 2020

Chadd Chustz
Environmental Project Manager
Town of Fort Myers Beach
2523 Estero Boulevard
Fort Myers Beach, FL 33931

Subject: Laguna Shores Channel Monitoring

On September 17, 2020 Hans Wilson and Associates, Inc. staff was on site to conduct a bathymetric survey of Laguna Shores Channel on the south end of Estero Island and leading to Big Carlos Pass. The data was collected on an approximate 25' x 25' grid and using a computer system in conjunction with a CeeEcho echo sounder, a submeter GPS, and a single beam 200 kHz transducer. The data was processed using Hypack 2019 software.

All depths reference Mean Low Water (MLW) datum. Elevations reference DEP Tide Station 872-5331 (Estero Island – Ostego Bay), with MLW elevation at -1.58' NAVD88.

Refer to the attached drawing "Bathymetric Survey 9-17-20" for details regarding current depths. Also attached is the drawing "Bathymetric Survey 1-15-15" for use in comparing the depths from the last survey to the current survey. When comparing the two surveys it is clear that significant infill has occurred along the entire length of the channel, with the most extreme infill occurring towards the midpoint of the channel. There is an obvious shoal that exists off of the northern side of the tip of the island that runs south almost to the causeway. The channel dredging in the past has interrupted the shoal, but over time material will continue to fill in this area at a faster rate than the rest of the channel.

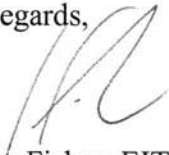


Photo showing the shoal that exists off the end of the island.

The original dredge footprint was used to calculate the volume of material requiring removal to restore the channel to the original design template. This design template has a depth of -7' MLW. The approximate volume of material to be removed is 5,472 cubic yards. The original dredge volume was 6,460 cubic yards. The infill amount constitutes approximately 84.7% of the original volume. The infill rate based on the survey is approximately 995 cubic yards per year.

If you have any questions or comments, please let me know.

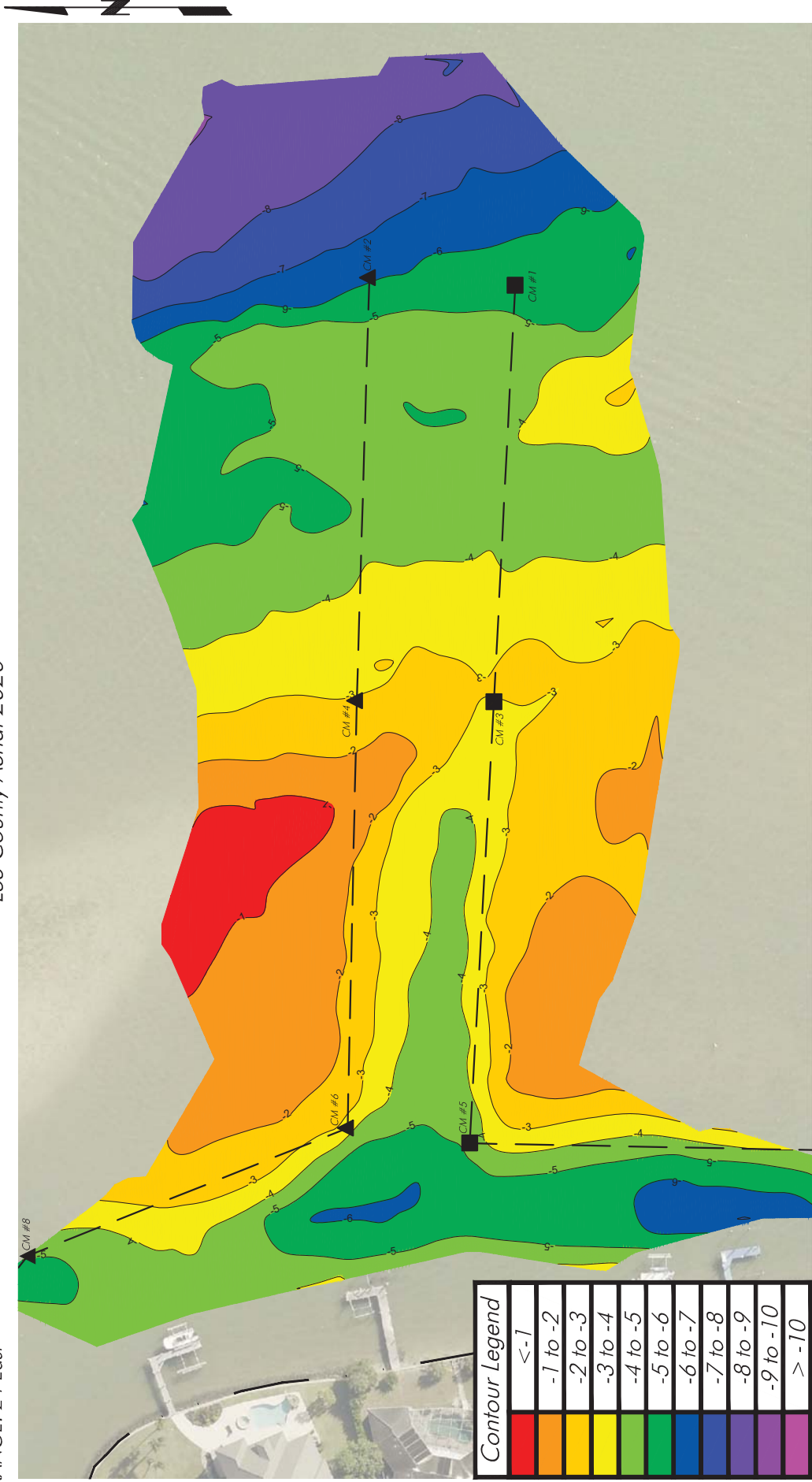
Regards,

A handwritten signature in black ink, appearing to be 'I. Fisher', written over the word 'Regards,'.

Ian Fisher, EIT

SECTION: 3
TOWNSHIP: 47 South
RANGE: 24 East

Lee County Aerial 2020



Contour Legend	
< -1	
-1 to -2	
-2 to -3	
-3 to -4	
-4 to -5	
-5 to -6	
-6 to -7	
-7 to -8	
-8 to -9	
-9 to -10	
> -10	

Notes: Depths referenced to Mean Low Water (MLW) per DEP Tide Station 872-5331. Bathymetric survey completed on 9-17-20 by HWA, Inc.

Post Dredge Survey 9-17-20

SCALE: 1" = 100'

DISCUSSION PLANS, NOT FOR CONSTRUCTION



1938 Hill Avenue, Fort Myers, Florida 33901
Office: 239-334-6870 Fax: 239-334-7810
MARINE and ENVIRONMENTAL CONSULTANTS

9-24-20

IMF

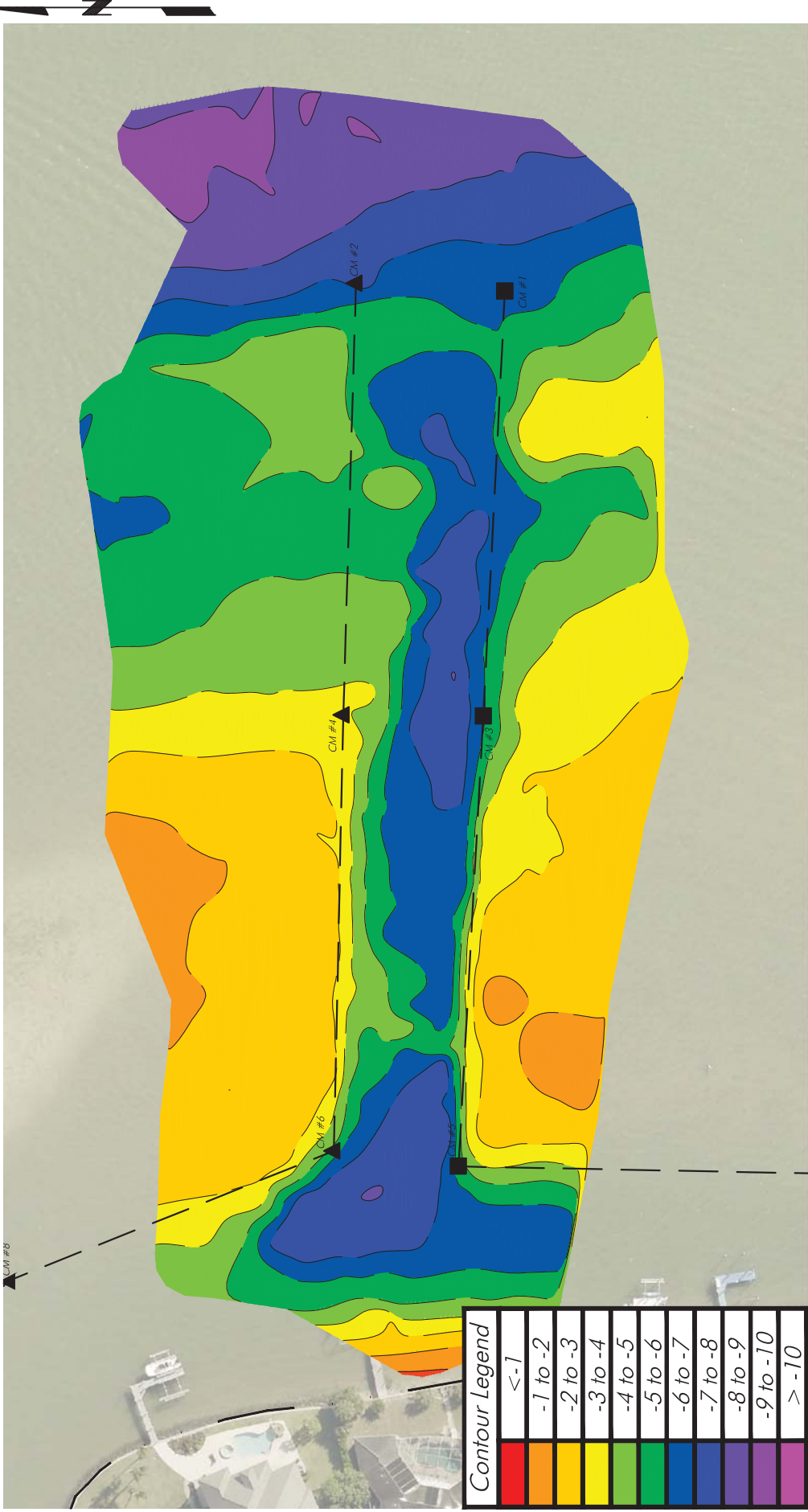
Town of Fort Myers Beach

SHEET

September 24, 2020 8:13:45 a.m.
Drawing: FMB10MASTER.DWG

SECTION: 3
TOWNSHIP: 47 South
RANGE: 24 East

Lee County Aerial 2020



Contour Legend	
	< -1
	-1 to -2
	-2 to -3
	-3 to -4
	-4 to -5
	-5 to -6
	-6 to -7
	-7 to -8
	-8 to -9
	-9 to -10
	> -10

Notes: Depths referenced to Mean Low Water (MLW) per DEP Tide Station 872-5331. Bathymetric survey completed on 1-15-15 by HWA, Inc.

Post Dredge Survey 1-15-15

SCALE: 1" = 100'

September 24, 2020 8:13:45 a.m.
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DISCUSSION PLANS, NOT FOR CONSTRUCTION



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Town of Fort Myers Beach

SHEET

Legend

 Previous & Proposed Dredged Area (0194642-008)

Channel Marker 6

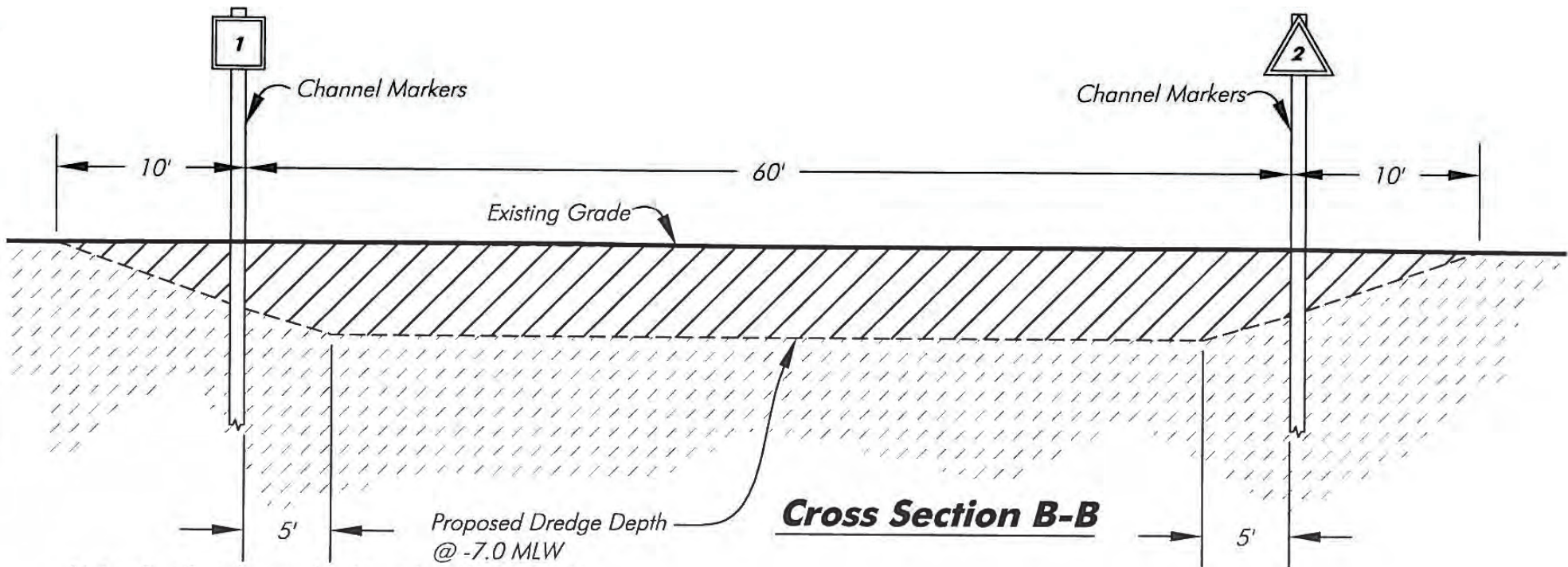
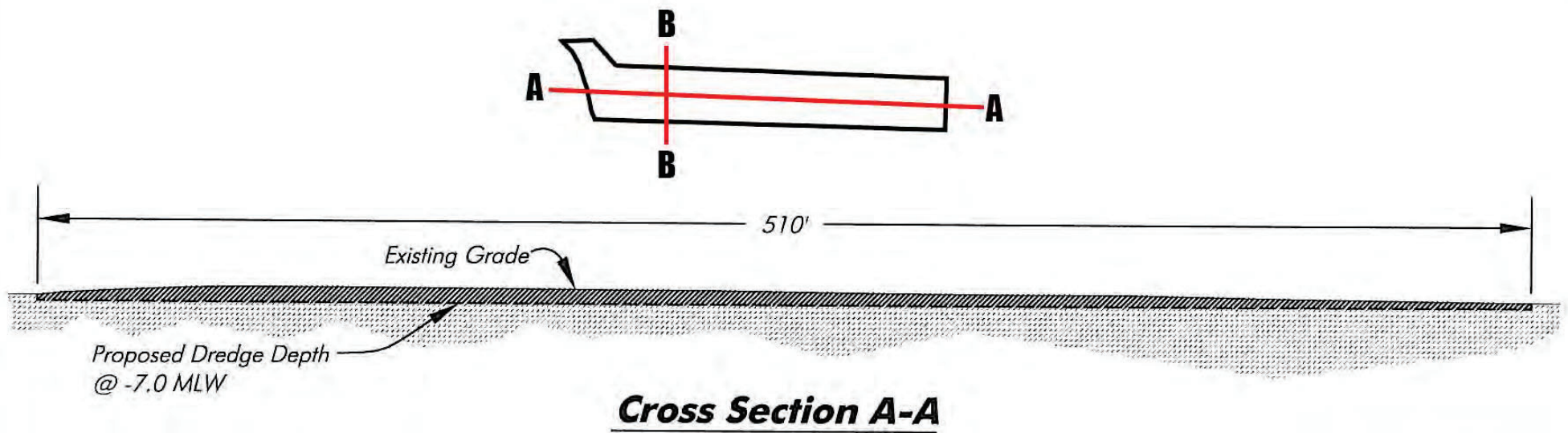
Channel Marker 4

Channel Marker 2

Channel Marker 5

Channel Marker 3

Channel Marker 1

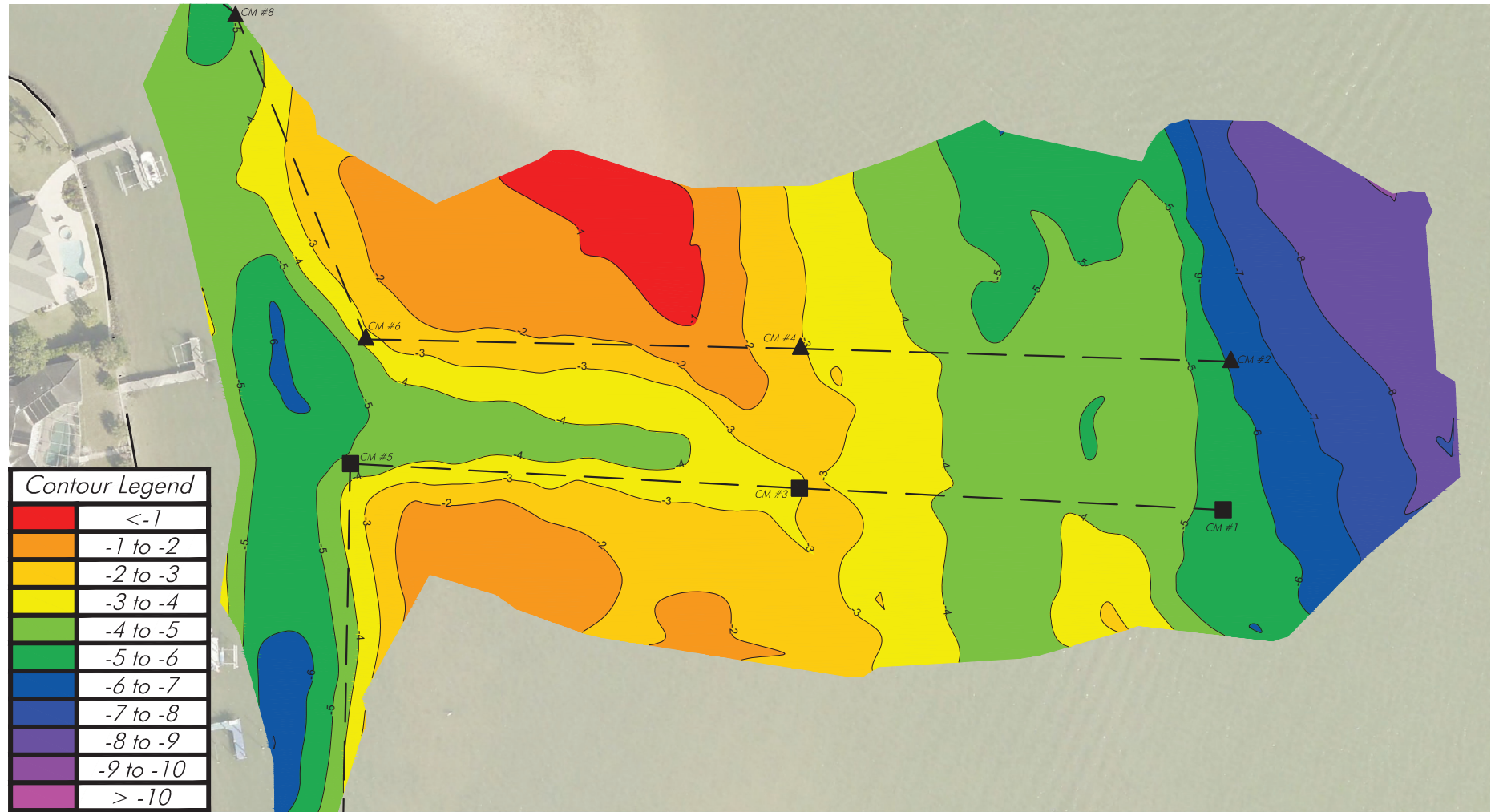


Notes: Depths referenced to Mean Low Water (MLW)
per DEP Tide Station 872-5331 Estero Island - Ostego Bay.

SECTION: 3
TOWNSHIP: 47 South
RANGE: 24 East

Lee County Aerial 2020

0 50 100
SCALE FEET



Notes: Depths referenced to Mean Low Water (MLW) per DEP Tide Station 872-5331. Bathymetric survey completed on 9-17-20 by HWA, Inc.

Post Dredge Survey 9-17-20

SCALE: 1" = 100'

DISCUSSION PLANS, NOT FOR CONSTRUCTION

September 24, 2020 8:13:45 a.m.
Drawing: FMB10MASTER.DWG



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Office: 239-334-6870 Fax: 239-334-7810
MARINE and ENVIRONMENTAL CONSULTANTS

9-24-20

IMF

Town of Fort Myers Beach

SHEET



1. **Requested Motion:**

Meeting Date: May 4, 2023

Hurricane Ian Recovery Update

Why the action is necessary:

What the action accomplishes:

2. **Agenda:**

ITEMS FOR DISCUSSION

3. **Requirement/Purpose:**

5. **Background:**

Attachments:

Financial Impact:

6. **Alternative Action**

7. **Staff Recommendations:**

8. **Recommended Approval:**

1. **Requested Motion:**

Meeting Date: May 4, 2023

FEMA Community Assistance Recovery Support Function (CARSF)

Why the action is necessary:

What the action accomplishes:

2. **Agenda:**

ITEMS FOR DISCUSSION

3. **Requirement/Purpose:**

5. **Background:**

Within the Disaster Recovery Framework/Emergency Management, there are many RSFs, Recovery Support Functions. One being the Community Assistance Recovery Support Function (CA RSF). They support communities and direct them to resources. For example, CA RSF's mission is to coordinate assistance programs. They will typically just identify the funding programs, such as the EDA FY 2023 Disaster Supplemental Funding grant.

The Recovery and Resiliency Partnership Projects (R2P2) was a presentation from the Integrated Recovery Coordination (IRC) group on examples of projects that were conducted in the panhandle (Mexico Beach) through EPA/FEMA, in order to support the coastal and inland communities recovering from Hurricane Michael. This is an example of what the IRC could assist with coordinating.

Attachments:

Financial Impact:

6. **Alternative Action**

7. **Staff Recommendations:**

8. **Recommended Approval:**

John R Herin Jr, Town Attorney

Date: April 26, 2023

Amy Baker, Town Clerk

Date: April 26, 2023

Keith Wilkins , Interim Town Manager

Date: April 26, 2023

1. **Requested Motion:**

Meeting Date: May 4, 2023

Resilient Lee projects

Why the action is necessary:

What the action accomplishes:

2. **Agenda:**

ITEMS FOR DISCUSSION

3. **Requirement/Purpose:**

5. **Background:**

Attachments:

Financial Impact:

6. **Alternative Action**

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John R Herin Jr, Town Attorney

Date: April 26, 2023

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Keith Wilkins , Interim Town Manager

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1. **Requested Motion:**

May 2023

Meeting Date: May 4, 2023

Why the action is necessary:

What the action accomplishes:

2. **Agenda:**

AGENDA MANAGEMENT

3. **Requirement/Purpose:**

5. **Background:**

Attachments:

1. Agenda Management 6.8.23

Financial Impact:

6. **Alternative Action**

7. **Staff Recommendations:**

8. **Recommended Approval:**

AGENDA MANAGEMENT

	Subject	Dept		Mtg Date
45	Classification and Compensation Study	Administration	added 02.23.2023	05.15.2023
52	Additional Community Development staff positons	Com Dev	added 03.22.2023	05.15.2023
61	Presentation: Melissa Rice, Sanibel Community Housing Resources (BV)	Council	added 04.06.2023	05.15.2023
71	Interlocal with LCSB regarding Beach Elementary	Legal	added 04.17.2023	05.15.2023
83	Ordinance 23-xx; Parallelogram lots	P&Z	added 04.21.2023	05.15.2023
57	Ocean Jewels/TPI property vacation	Public Works	added 03.22.2023	05.15.2023
68	Ord. 18-06: Boards, Committees and Commissions (KW)	Admin.	added 04.06.2023	06.05.2023
76	Recommendation of Award: Debris Removal	Public Works	added 04.19.2023	06.05.2023
79	Recommendation of Award: Monitoring	Public Works	added 04.19.2023	06.05.2023
77	Recommendation of Award: Road Repairs	Public Works	added 04.19.2023	06.05.2023
74	Future post storm access to island	Admin	added 04.19.2023	06.08.2023 M&P
69	Discussion: Pedestrian Overpasses (BV)	P&Z/Legal	added 04.06.2023	06.08.2023 M&P
82	Presentation: Urban Land Institute (ULI)	Council	added 04.17.2023	TBD M&P
70	What is Workforce Housing? (BV)	Council	added 04.06.2023	TBD M&P
80	Water restrictions Ordinance (BV)	Environmental	added 04.17.2023	TBD M&P
66	Rebuilding Options (SEZ, VAR, CPD, etc)	P&Z	added 04.06.2023	TBD M&P
81	Sewer inspection with home rebuilds (BV)	P&Z	added 04.17.2023	TBD M&P
5	Beach school: partnering w/Chamber, employers, PTA to enroll children	Council	added 11.21.2022	TBD M&P
7	Times Square & CB Zone: Laying the framework/What can we do? (BV)	Council/P&Z	added 12.12.2022	TBD M&P
6	Veteran's Tribute at Bayside Park (JA)	Council	added 09.08.2022	TBD M&P