

PELICAN BAY SERVICES DIVISION

Municipal Service Taxing and Benefit Unit

NOTICE OF PUBLIC MEETING

JULY 13, 2021

THE **CLAM BAY COMMITTEE** OF THE PELICAN BAY SERVICES DIVISION WILL MEET AT **2:00 PM ON TUESDAY, JULY 13** AT THE COMMUNITY CENTER AT PELICAN BAY, 8960 HAMMOCK OAK DRIVE, NAPLES, FLORIDA 34108.

AGENDA

1. Roll call
2. Agenda approval
3. Approval of 06/01/2021 meeting minutes
4. Audience comments
5. Beach Renourishment
 - a. Data from Engineering report
 - b. Data provided by Humiston & Moore
 - c. Public-private beach boundary line
 - d. Recommendation on amount of sand
6. Clam Pass
 - a. Tidal ratio results for June
 - b. Bathymetric survey
 - c. Data provided by Humiston & Moore
 - d. Timeline for maintenance work
 - e. Approval of construction drawings
7. Water Quality
 - a. Consultant for water quality records and reports
8. Next meeting
9. Adjournment

ANY PERSON WISHING TO SPEAK ON AN AGENDA ITEM WILL RECEIVE UP TO THREE (3) MINUTES PER ITEM TO ADDRESS THE BOARD. THE BOARD WILL SOLICIT PUBLIC COMMENTS ON SUBJECTS NOT ON THIS AGENDA AND ANY PERSON WISHING TO SPEAK WILL RECEIVE UP TO THREE (3) MINUTES. THE BOARD ENCOURAGES YOU TO SUBMIT YOUR COMMENTS IN WRITING IN ADVANCE OF THE MEETING. ANY PERSON WHO DECIDES TO APPEAL A DECISION OF THIS BOARD WILL NEED A RECORD OF THE PROCEEDING PERTAINING THERETO, AND THEREFORE MAY NEED TO ENSURE THAT A VERBATIM RECORD IS MADE, WHICH INCLUDES THE TESTIMONY AND EVIDENCE UPON WHICH THE APPEAL IS TO BE BASED. IF YOU ARE A PERSON WITH A DISABILITY WHO NEEDS AN ACCOMMODATION IN ORDER TO PARTICIPATE IN THIS MEETING YOU ARE ENTITLED TO THE PROVISION OF CERTAIN ASSISTANCE.

**PELICAN BAY SERVICES DIVISION
CLAM BAY COMMITTEE MEETING
JUNE 1, 2021**

The Clam Bay Committee of the Pelican Bay Services Division met on Tuesday, June 1 at 9:00 a.m. at the Community Center, 8960 Hammock Oak Dr., Naples, Florida 34108. In attendance were:

Clam Bay Committee

Susan O'Brien, Chairman
Denise McLaughlin

Michael Rodburg
Rick Swider

Pelican Bay Services Division Staff

Neil Dorrill, Administrator
Chad Coleman, Operations Manager
Darren Duprey, Assoc. Project Manager (*absent*)

Karin Herrmann, Ops. Analyst
Lisa Jacob, Project Manager
Barbara Shea, Admin. Assistant (*absent*)

Also Present

Mohamed Dabees, Humiston & Moore
Jeremy Sterk, Earth Tech

APPROVED AGENDA (AS AMENDED)

1. Roll call
2. Agenda approval
3. Approval of 03/30/2021 meeting minutes
4. Audience comments
5. Clam Bay
 - a. Update on mangrove monitoring and hand-dug channel maintenance
 - b. Exotic treatment
 - i. Updated proposal for scaevola treatment/removal
 - ii. Treatment in other areas
 - c. Update on osprey platforms
 - d. Canoe trail marker 8
 - e. Expenses in Fund 111 account
6. Clam Pass
 - a. Tidal ratio results for May
 - b. Bathymetric surveys
 - c. Timeline for maintenance
 - d. Options for Pass maintenance
 - e. Maintenance costs in 2020
7. Water Quality
 - a. Results for January-March 2021
 - b. Copper results for January-March 2021
 - c. Draft article for PB Post

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- d. Update on consultant for water quality (add-on)
- 8. Beach renourishment
 - a. Timeline for decision-making
 - b. Cost of engineering
- 9. Boater safety signage
 - a. Update on status of proposed boater safety signs
- 10. Next meeting
- 11. Adjournment

ROLL CALL

All members were present and a quorum was established

CHAIR'S OPENING COMMENTS

Ms. O'Brien welcomed Mr. Rodburg to the committee and acknowledged Mr. Weir's contributions to the committee over the past several years.

AGENDA APPROVAL

Ms. McLaughlin motioned, Mr. Rodburg seconded to approve the agenda as amended with the addition of item #7d. The motion carried unanimously.

APPROVAL OF 03/30/2021 MEETING MINUTES

Ms. McLaughlin motioned, Mr. Rodburg seconded to approve the 03/30/2021 meeting minutes as amended. The motion carried unanimously.

AUDIENCE COMMENTS

None

CLAM BAY

UPDATE ON MANGROVE MONITORING AND HAND-DUG CHANNEL MAINTENANCE

Mr. Sterk, Environmental Consultant with Earth Tech, provided exhibits which identified this year's areas of recommended targeted maintenance of hand-dug channels. This project will start sometime in June. He also provided a summary of health assessment scores of the 21 monitored mangrove plots. He commented that the overall trend of these plots has been pretty steady, after the recovery from Hurricane Irma.

Ms. O'Brien commented that there are four areas of stressed mangroves, as noted in the 2020 Clam Bay Monitoring Annual Report. Mr. Sterk commented that he has established photo plots of these areas which will continue to be closely monitored and diagnosed. He noted that it appears that these four areas have no natural or previously established channels, and in the future, we may need to consider a permit-modification to establish channels in these areas. Ms. McLaughlin commented that there are a fair number of dead-looking trees at South Beach. Mr. Sterk confirmed that this area is one of the four areas being closely monitored.

Ms. O'Brien questioned whether standing water has been observed in the mangroves. Mr. Sterk will look into this during June fieldwork. The committee reviewed selected May Clam Bay

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aerials, provided by Humiston & Moore, which showed the conditions of the mangroves in several areas.

EXOTIC TREATMENT

UPDATED PROPOSAL FOR SCAEVOLA TREATMENT/REMOVAL

Ms. O'Brien commented that a request for quotes for scaevola removal went out last week, and a copy was included in the agenda packet. Quotes are due back June 10. She noted that at the last Clam Bay Committee meeting, mechanical removal was discussed and considered the most efficient and most cost-effective method. However, in the proposal, vendors are asked to choose their removal method. Ms. O'Brien commented that \$75,000 was tentatively included in the FY2022 budget for this project. Mr. Coleman commented that Fund 111 has at least \$35,000 available in this year's budget to fund one phase of this project. He noted that we do not know the PBF's participation in this project, at this time. Ms. Jacob commented that this RFQ went out to the five or six exotic vegetation removal vendors on contract with the County.

Mr. Sterk commented that he is not sure how long scaevola has been on the State Prohibited Exotic List. Mr. Dorrill commented that the PBSB has never done a scaevola removal project before and he is unaware that this type of project has ever been done by the PBSB in the last 40 years.

TREATMENT IN OTHER AREAS

Ms. O'Brien provided a copy of bid schedule RFQ118-7459, which describes the 2021 tasks of the ongoing exotic removal program by Aquagenix, for a total annual cost of \$115,800. Ms. O'Brien questioned what work is provided under Task 4 (NRPA Exotic Treatment Area – Quarterly Exotic Maintenance) for \$36,000. Mr. Sterk commented that a map of Clam Bay with corresponding tasks was provided in the agenda packet, which shows about 12 acres on the west side of the berm, where exotic maintenance work will be completed. Ms. Jacob commented that she will review past invoices to determine the number of hours that are spent on Task 4 each quarter. Mr. Sterk commented that Aquagenix provides a daily report of all work completed.

Ms. McLaughlin commented on the exotics, east of the boardwalk, in conservation areas on associations' property. Mr. Sterk commented that some associations have addressed the exotics on their property while others have not. Ms. O'Brien suggested creating a PBSB outreach program on exotic removal for the associations with conservation areas along the east side of the berm. She suggested that staff develop a strategy for this.

UPDATE ON OSPREY PLATFORMS

Ms. O'Brien commented that two out of our three PB osprey platforms are down. Mr. Sterk has been tasked with replacement/repair of these two platforms, which will be completed within the next few weeks.

CANOE TRAIL MARKER 8

Mr. Sterk commented that he continues to coordinate with the County's Coastal Zone Mgt. Division for the repair of canoe trail marker 8.

EXPENSES IN FUND 111

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Ms. O'Brien provided the FY2022 proposed budget for Fund 111. She highlighted that in FY2020, we did not spend all of the funds available to us in Fund 111. She noted that this year, staff is focused on spending the entire \$150,000 available to us in our FY2021 budget.

CLAM PASS

TIDAL RATIO RESULTS FOR MAY

Ms. Jacob provided the May Clam Bay tidal ratio results for the committee to review. Dr. Dabees, Environmental Consultant with Humiston & Moore, commented that ideally we would like to see the measurements to be above .5 for the four active tidal gauges. He reviewed ratios from 2017 to the present, along with the related dredging events during that time period. Dr. Dabees commented that the clogging of Clam Pass is concentrated in the entrance to the Pass, which is caused by the continuing influx of sand from the recent County beach renourishment project, just south of Clam Pass.

OPTIONS FOR PASS MAINTENANCE

Dr. Dabees reported that we have sent out an RFQ (to marine services contractors) to obtain quotes for both a partial excavation and a full dredge. Quotes are due back on June 11. He suggested that once quotes are reviewed, we can consider these two options in order to make a recommendation. Although we are in turtle nesting season, currently there are no turtle nests in the immediate grading area of the Pass. Dr. Dabees noted that we cannot relocate sand, dredged from the Pass, into any areas containing turtle nests.

Dr. Dabees reported that the County is working on plans for emergency hydraulic dredges at Wiggins Pass and Doctor's Pass (to be completed after turtle nesting season). He noted that we have requested that Clam Pass be included in their project. This is a third option available to us.

Mr. Dorrill commented that the Pass does not look alarming in the most recent aerial photos. He noted that we will closely monitor conditions in Clam Pass, and that we may be able to delay work until our third option (participation in the County project) becomes available, subsequent to turtle season.

Mr. Coleman commented on PBF's concerns on the escarpment at South Beach. Dr. Dabees commented that the flow of water exiting Clam Pass is causing this. He noted that (1) the escarpment can be knocked down, but that it will quickly return at the next high tide, and (2) the spit must be removed in order to solve the escarpment issue. Mr. Dorrill commented that he would be able to rent a trackhoe and knock down the escarpment. Dr. Dabees commented that during turtle season, this would require an approval from FWC. He suggested that it is the responsibility of the County's turtle nesting monitors to determine if and when to knock down an escarpment. Ms. O'Brien commented that it is our responsibility to maintain the health of the estuary.

BATHYMETRIC SURVEYS

Ms. O'Brien provided the bathymetric survey results of 5/11/2020, 12/21/2020, and 01/05/2021, which were included in the agenda packet. She expressed concern that Section "C" was filled with 3,700 cubic yards of sand in January 2021.

MAINTENANCE COSTS IN 2020

Ms. O'Brien provided a summary of 2020 Clam Pass maintenance costs, included in the agenda packet.

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WATER QUALITY

RESULTS FOR JANUARY - MARCH 2021

Ms. O'Brien commented that we received the January-March 2021 water quality results in late April.

COPPER RESULTS FOR JANUARY – MARCH 2021

Ms. O'Brien commented that the latest copper results were added to the table which was included in the agenda packet. She noted just one problem area (a spike over 6) in these quarterly results. Copper results, in general, continue to be very good.

DRAFT ARTICLE FOR PB POST

Ms. O'Brien commented that Mr. Rodburg provided an edited draft article entitled "Clam Bay Water Quality Shows Continued Improvement" for the PB Post, which was added to the record. Ms. O'Brien suggested and the committee agreed that a photo of Clam Bay and an exhibit of the eight sampling sites accompany the draft article. The committee discussed minor edits.

UPDATE ON CONSULTANT FOR WATER QUALITY (ADD-ON)

Ms. Jacob reported that the work on Turrell Hall's water quality purchase order has been completed and that Turrell Hall is no longer on the County's list of contracted environmental engineering vendors. She commented that our options include (1) hire the next environmental engineer who is on rotation under the County contract, or (2) hire Earth Tech under the "direct select" process. Earth Tech would be able to subcontract the water quality reporting work either to Turrell Hall or ESA (Environmental Science Assoc.) directly. Ms. O'Brien noted that Turrell Hall has maintained our water quality data for the last 20 years. The committee agreed that the best option would be for Turrell Hall to continue as our water quality consultant, subcontracted under Earth Tech's contract.

BEACH NOURISHMENT

TIMELINE FOR DECISION MAKING

Mr. Dorrill commented that the County will receive the deliverables from the engineer's beach renourishment survey work some time this summer. The exact date is unknown at this time and will be shared as soon as it is known. Ms. O'Brien commented that this information is critical so that reviews and recommendations of PB participation can be made in a timely manner. Mr. Dorrill commented that he expects a November truck haul project.

COST OF ENGINEERING

Ms. Jacob will follow up on the cost of engineering for PBSB's portion of the County's beach renourishment truck haul project.

BOATER SAFETY SIGNAGE

Mr. Dorrill commented that at a recent meeting with the County's Coastal Zone Management Division (CZM), he stressed the importance of the installation of our boater safety signs. A CZM representative indicated that he expects the installation of these signs to be no later than year end.

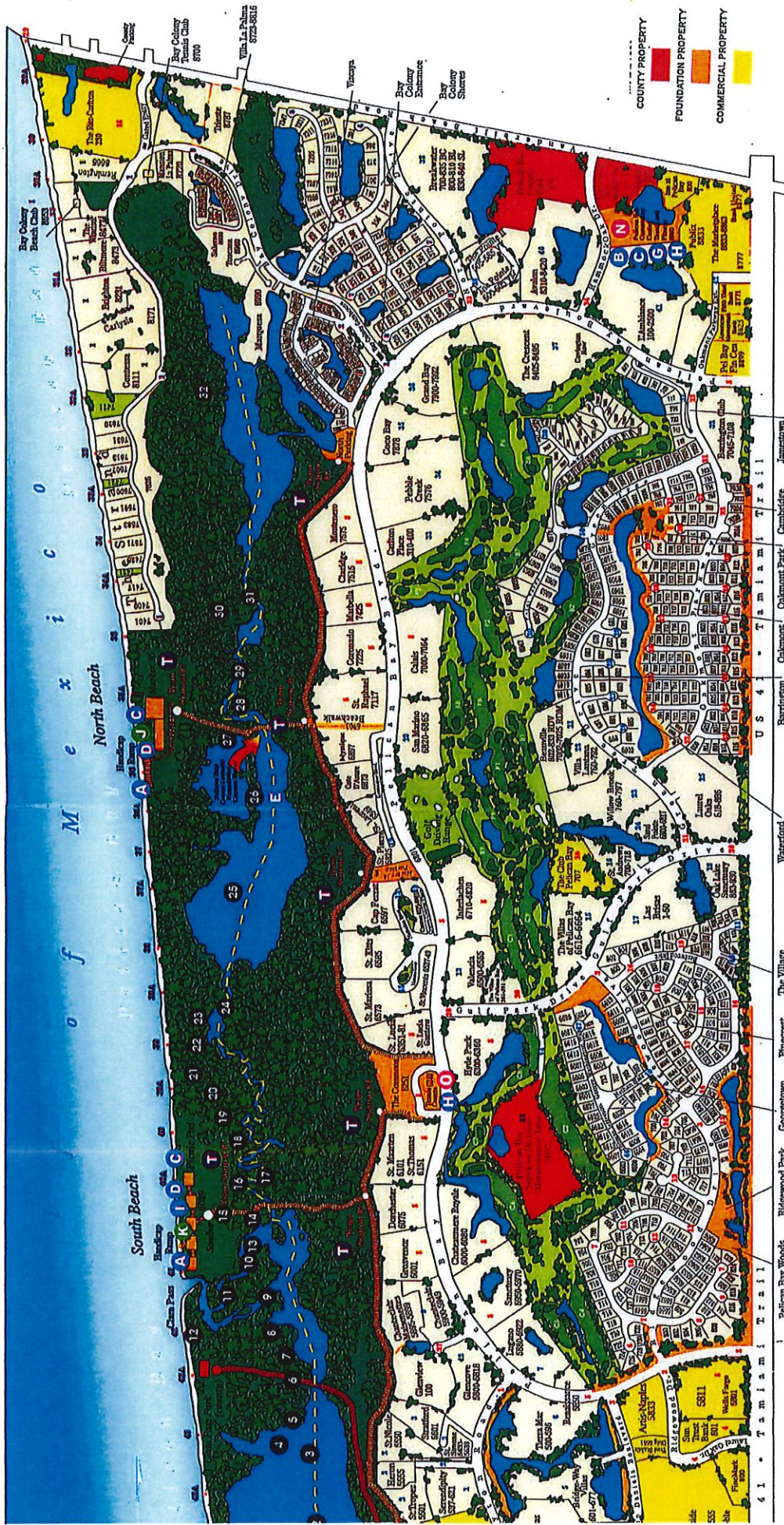
Pelican Bay Services Division Clam Bay Committee Meeting
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ADJOURNMENT

The meeting was adjourned at 10:26 a.m.

Susan O'Brien, Chairman

Minutes approved [] *as presented* OR [] *as amended* ON [] *date*



Revised Design 6/22/21 for Discussion

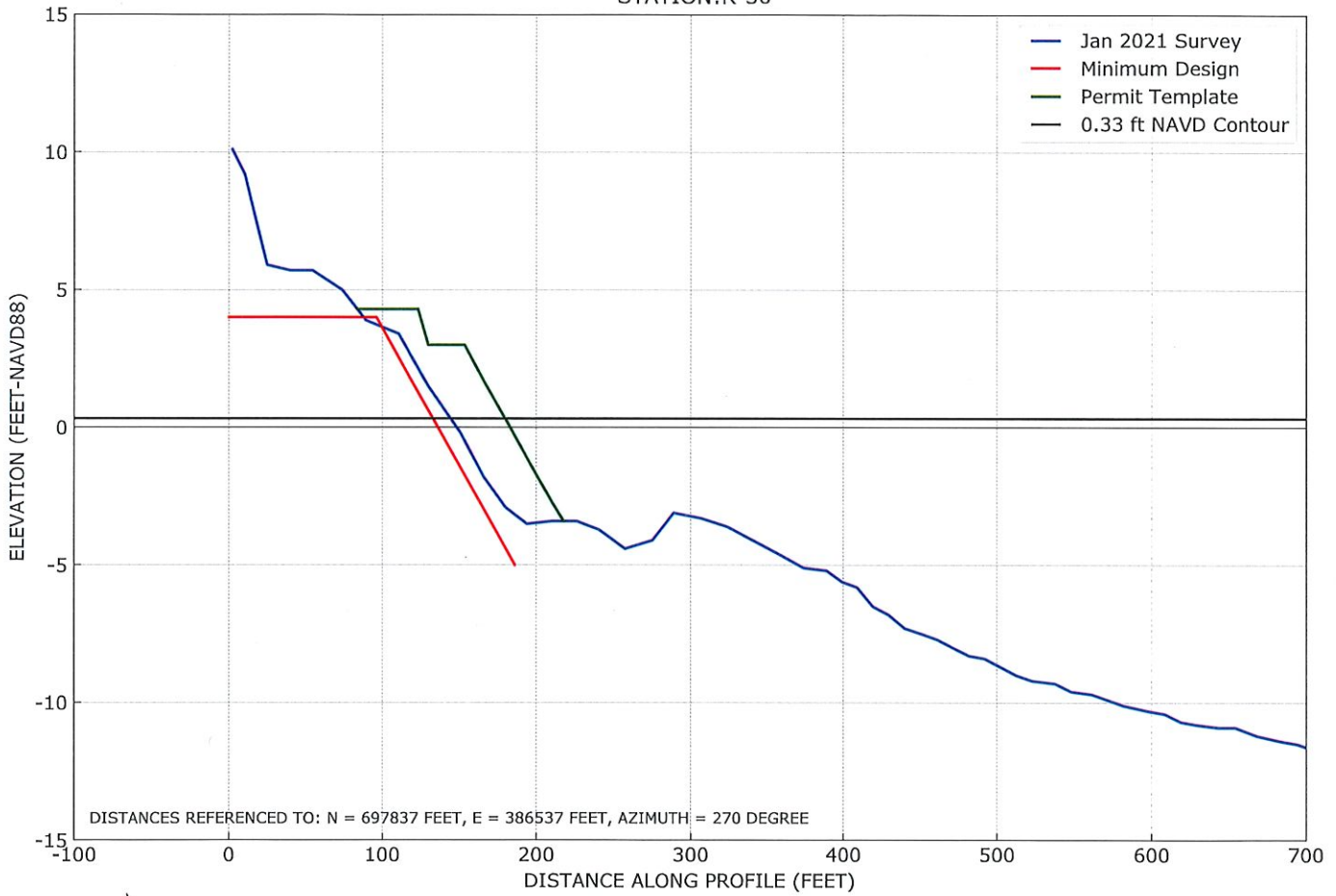
2021 Collier Beach Renourishments							
Project R-Mons	Effective Distance (FT)	Jan 2021 Survey to Permitted Template			Revised Design Needs (CY) 6/22/2021	Construction Access Points	
		From	To	Volume (CY)			
Vanderbilt	R-22	R-23	968	0.0	5.1	1,229	Vanderbilt Beach Rd
	R-23	R-24	1058	5.1	8.0	6,906	
	R-24	R-25	1083	8.0	9.7	9,557	
	R-25	R-26	984	9.7	14.6	11,930	
	R-26	R-27	994	14.6	14.2	14,311	
	R-27	R-28	1195	14.2	14.7	17,274	
	R-28	R-29	856	14.7	8.0	9,730	
	R-29	R-30	1029	8.0	9.7	9,122	
	R-30	R-30.8	800	9.7	9.5	7,692	
Pelican Bay	R-30.8	R-31	237	9.5	9.5	2,251	
	R-31	R-32	1006	9.5	9.0	9,318	
	R-32	R-33	1017	9.0	7.8	8,545	
	R-33	R-34	1027	7.8	6.1	7,123	
	R-34	R-35	997	6.1	10.5	8,268	
	R-35	R-36	999	10.5	11.4	10,914	
	R-36	R-37	1058	11.4	0.0	3,005	
Naples	R-58A	R-58	540	0.0	34.1	4,609	3rd Ave. North *Naples Pier*
	R-58	R-59	985	34.1	6.2	19,860	
	R-59	R-60	1085	6.2	3.7	5,356	
	R-60	R-61	1077	3.7	5.4	4,875	
	R-61	R-62	1020	5.4	14.7	10,242	
	R-62	R-63	1008	14.7	19.3	17,157	
	R-63	R-64	926	19.3	6.8	12,116	
	R-64	R-65	782	6.8	7.5	5,614	
	R-65	R-66	825	7.5	10.5	7,413	
	R-66	R-67	800	10.5	8.2	7,470	
	R-67	R-68	809	8.2	7.0	6,172	
	R-68	R-69	811	7.0	12.5	7,915	
	R-69	R-70	798	12.5	35.3	19,074	
	R-70	R-71	802	35.3	31.7	26,878	
	R-71	R-72	803	31.7	19.7	20,630	
R-72	R-73	811	19.7	17.0	14,880		
R-73	R-74	815	17.0	12.1	11,880		
R-74	R-75	789	12.1	16.3	11,214		
R-75	R-76	800	16.3	10.9	10,879		
R-76	R-77	798	10.9	1.5	4,941		
R-77	R-78	765	1.5	7.5	3,412		
R-78	R-79	1105	7.5	0.0	2,058		
TOTAL						371,819	

2021 Truck Haul Renourishment Design Summary by Reach							
	From	To	Volume to Fill Permitted Template (CY)	Design Goal Volume (CY)	Revised Design June 22, 2021 (CY)	Revised Design June 22, 2021 (Tons)	Revised Design June 22, 2021 (Tons)
Vanderbilt	R-22.5	R-30.8	88,000	79,000	79,000	118,500	112,180
Pelican Bay	R-30.8	R-37	49,400	88,000	52,400	78,600	74,408
Naples	R-59.7	R-74.3	172,000	77,000	77,000	115,500	109,340
Total			309,400	244,000	208,400	312,600	295,928

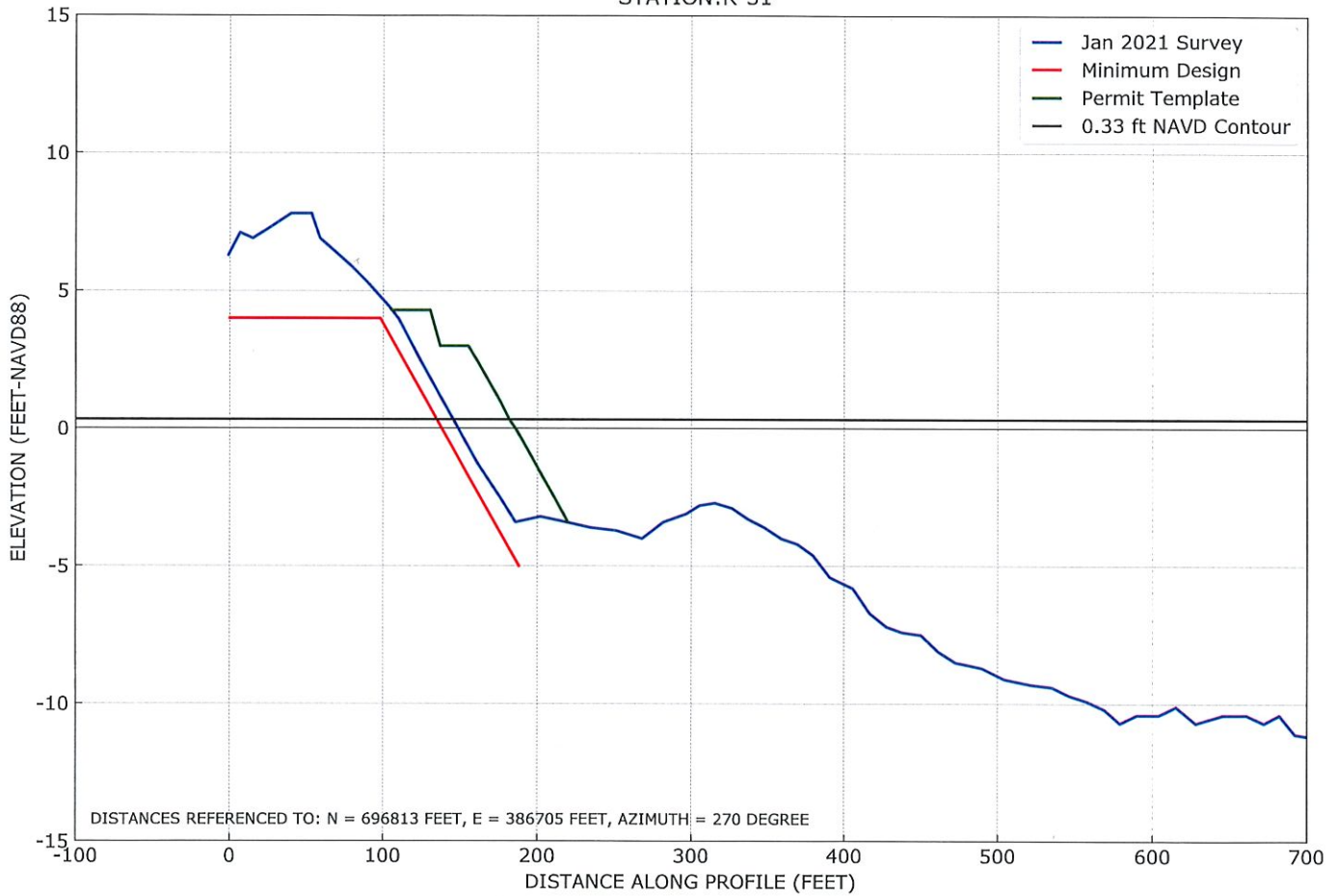
*1.5 ton/cy

*1.42 ton/cy

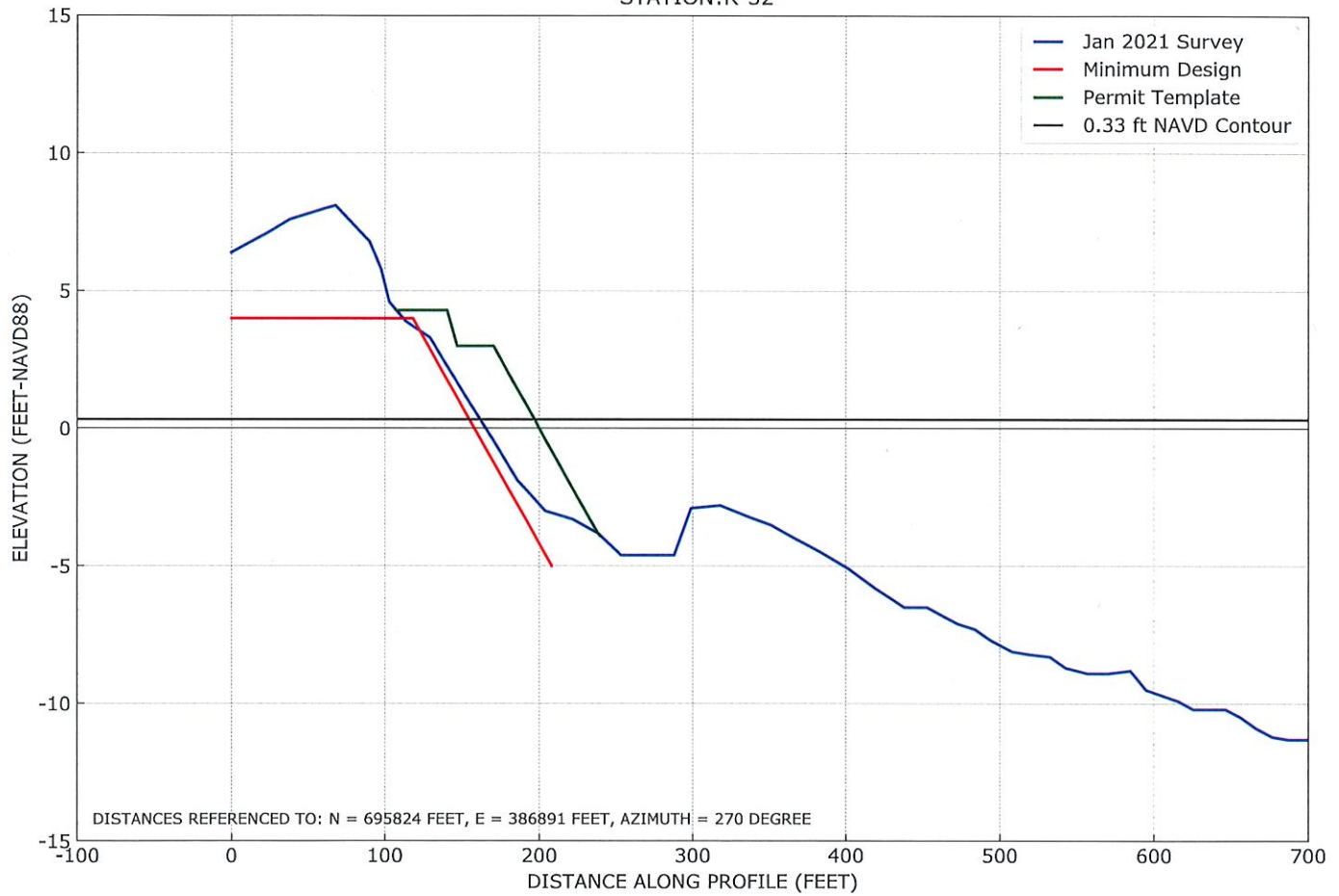
Collier County Beach Nourishment Project 2021
STATION:R-30



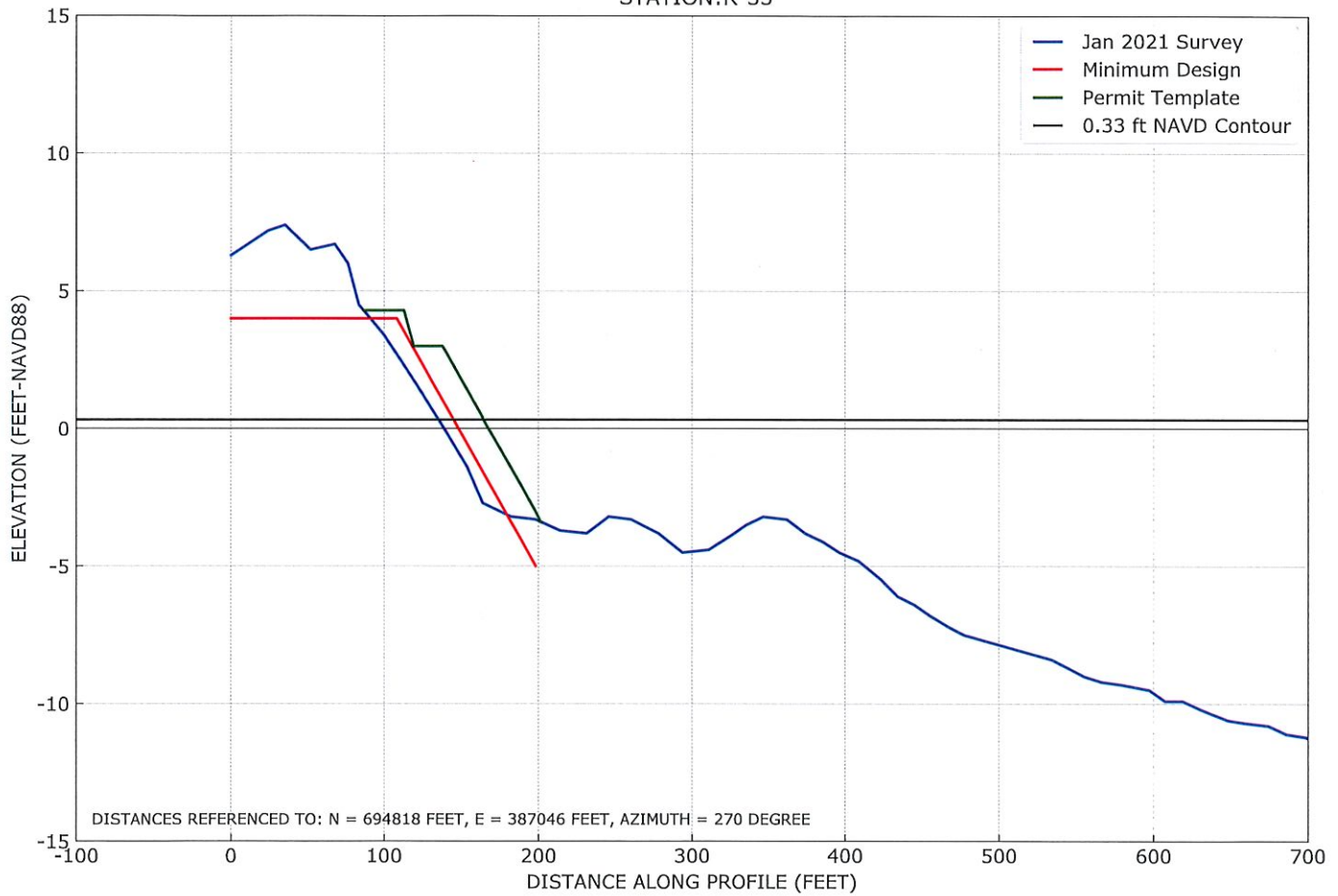
Collier County Beach Nourishment Project 2021
STATION:R-31



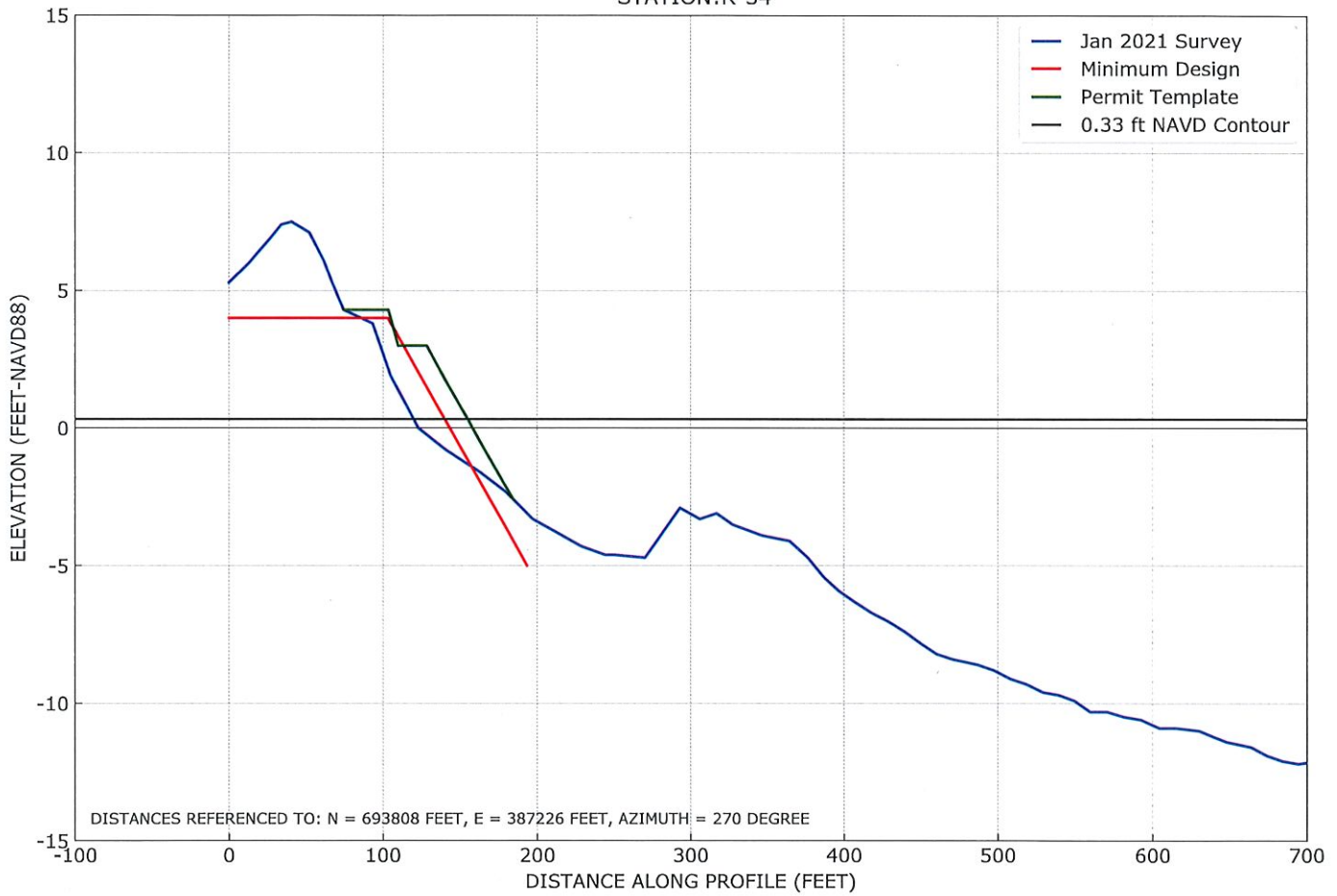
Collier County Beach Nourishment Project 2021
STATION:R-32



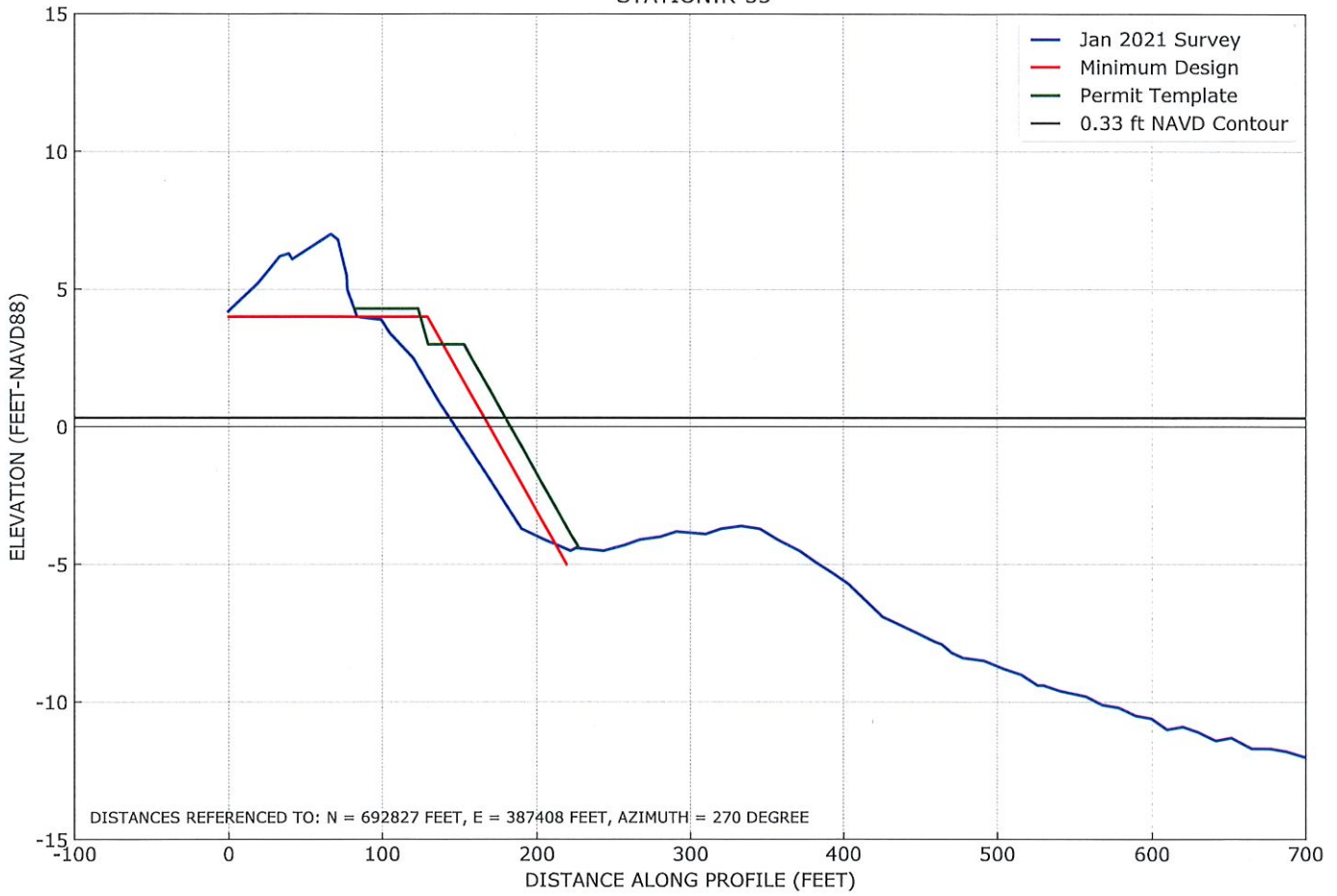
Collier County Beach Nourishment Project 2021
STATION:R-33



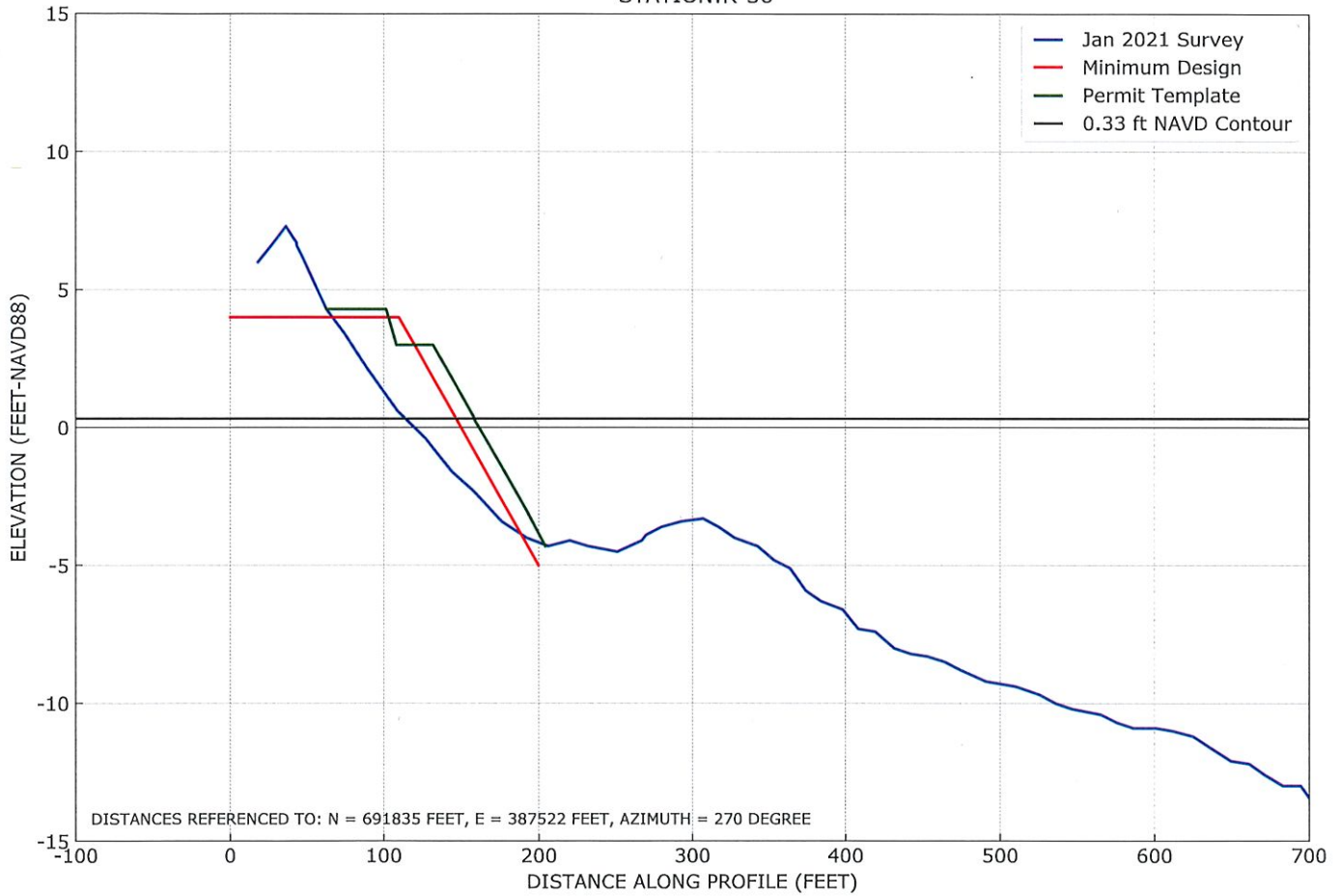
Collier County Beach Nourishment Project 2021
STATION:R-34



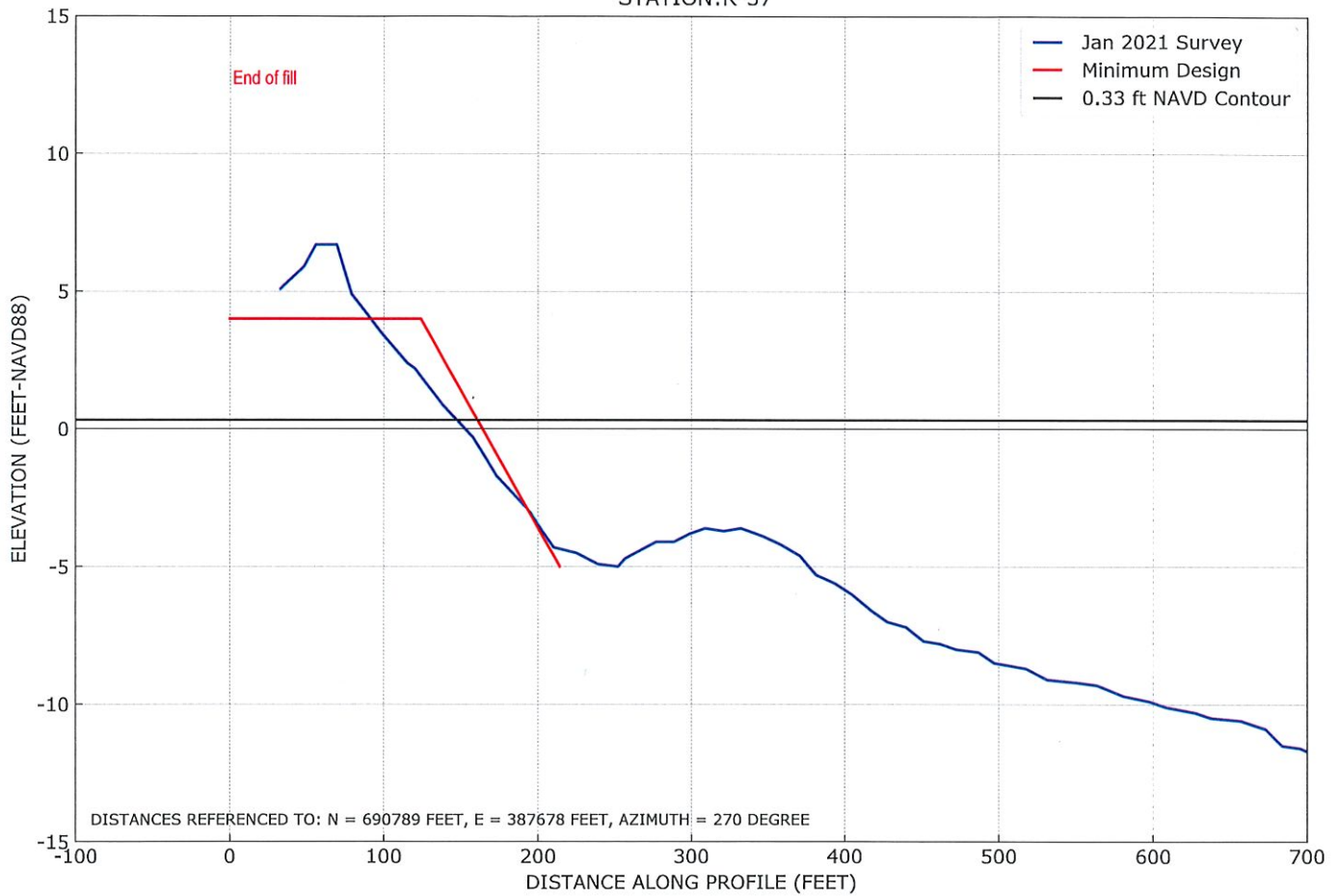
Collier County Beach Nourishment Project 2021
STATION:R-35



Collier County Beach Nourishment Project 2021
STATION:R-36



Collier County Beach Nourishment Project 2021
STATION:R-37



SheaBarbara

Subject: FW: Collier County 2021 Beach Fill design
Attachments: comparative plots PB.pdf; 2021DesignTable.pdf; Clam Pass 6-23-21 9238.jpg; Clam Pass 6-23-21 9245.jpg; Clam Pass 6-23-21 9246.jpg; Clam Pass 6-23-21 9254.jpg; Clam Pass 6-23-21 9256.jpg; Clam Pass 6-23-21 9231.jpg; Clam Pass 6-23-21 9232.jpg

From: Mohamed Dabees <md@humistonandmoore.com>
Sent: Thursday, July 8, 2021 12:25 PM
To: JacobLisa <Lisa.Jacob@colliercountyfl.gov>
Cc: ColemanChad <Chad.Coleman@colliercountyfl.gov>; NeilDorrill <neil@dmgfl.com>
Subject: Collier County 2021 Beach Fill design

Lisa

The attached exhibits and following notes are provided by Collier County Engineer for the beach nourishment project.

Notes:

2021 comparative profile plots – These plots are relative to the project baseline

“Min Design” represents the 100ft minimum design beach width

“Permitted Template” and “Bid Design” are one in the same in Pelican Bay as these plots were made to match the current revised design recommendations

Design Table –

Permit capacity as of Jan 2021 is shown by R-mon within the table

Colorful column of 6/22/2021 design needs were based on building the 100ft design beach plus the addition of 6 years of advanced nourishment throughout the project reach.

In the summary table at the bottom by reach, you’ll see that the design goal exceeded the capacity of the permit template, therefore the revised design suggestion was to fill the permitted template (including anticipated erosion between Jan 2021 and start of construction)

Mohamed

Under Florida Law, e-mail addresses are public records. If you do not want your e-mail address released in response to a public records request, do not send electronic mail to this entity. Instead, contact this office by telephone or in writing.

Previous Beach Nourishment Events

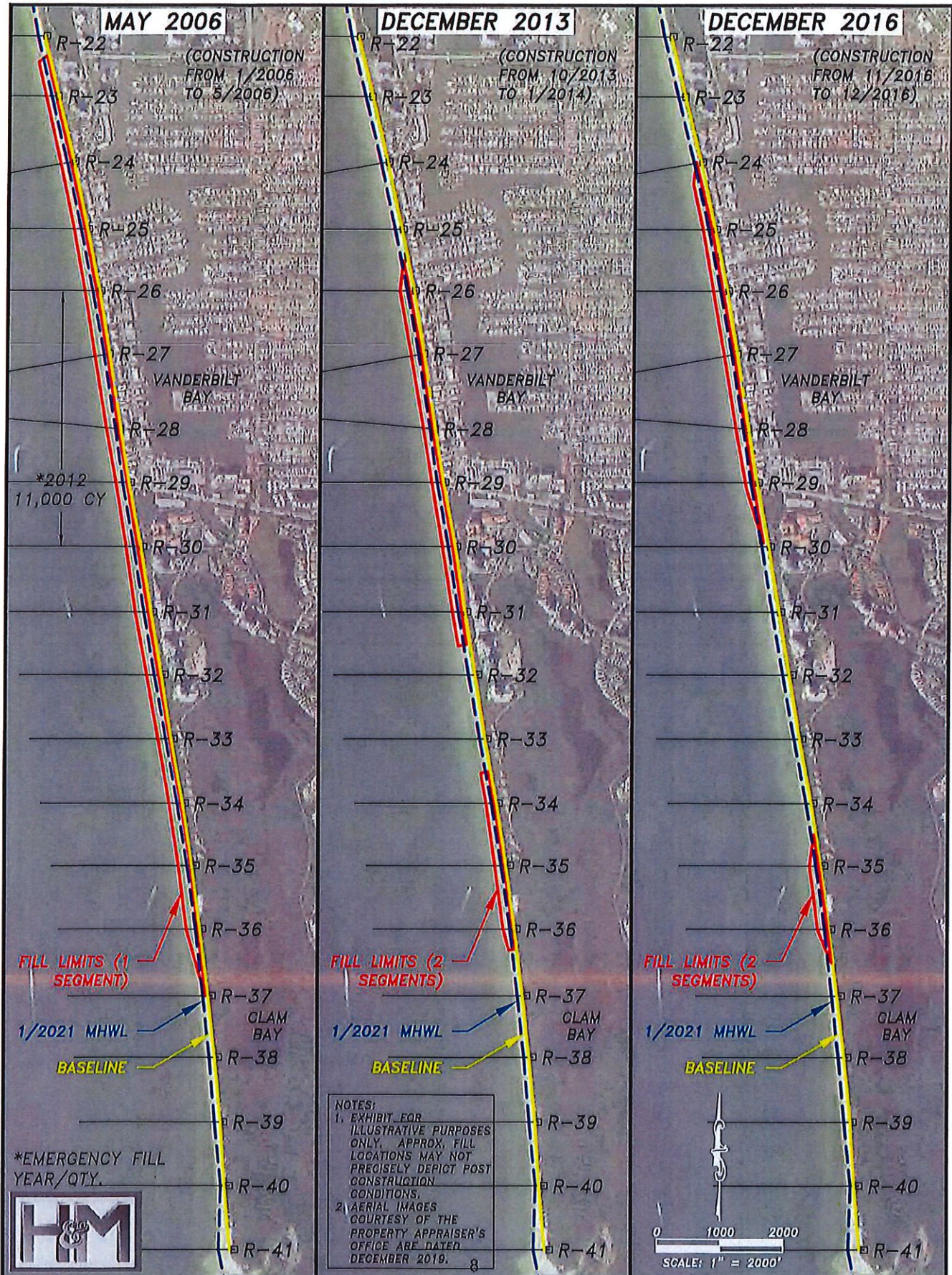
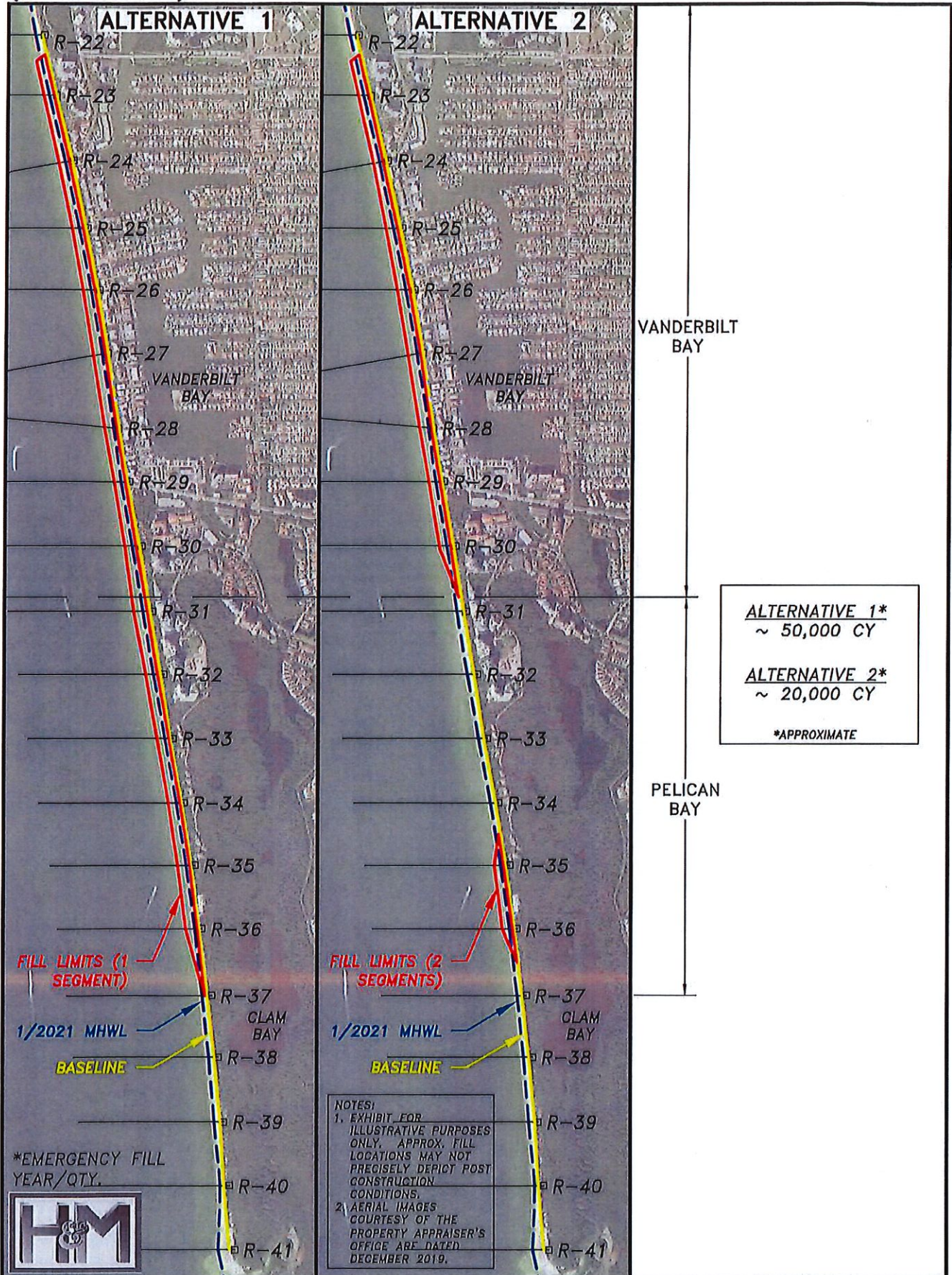


FIGURE 2b: FILL LIMITS FOR VANDERBILT & PELICAN BAY BEACH (ALTERNATIVES)



From: [Susan OBrien](#)
To: [SheaBarbara](#)
Subject: Fwd: [EXTERNAL] beach renourishment
Date: Thursday, July 8, 2021 9:33:04 AM
Attachments: [2021DesignTablef11.pdf](#)
[ATT00001.htm](#)

EXTERNAL EMAIL: This email is from an external source. Confirm this is a trusted sender and use extreme caution when opening attachments or clicking links.

Begin forwarded message:

From: James Hoppensteadt <jimh@pelicanbay.org>
Subject: Re: [EXTERNAL] beach renourishment
Date: June 24, 2021 at 10:08:44 AM CDT
To: Susan OBrien <naplessusan@rcn.com>
Cc: Neil Dorrill <neil@dmgfl.com>, ColemanChad <Chad.Coleman@colliercountyfl.gov>, Lisa Jacob <Lisa.Jacob@colliercountyfl.gov>, Mohamed Dabees <md@humistonandmoore.com>

Susan,

You are correct. The previous southern stopping point was 30.8, but we had agreed with Amy Patterson that the County would use the State and historical 1/2 mile standard which would put the Vanderbilt Beach section down to a little south of R-32, not R-30.8. Please let me know if there is anything I can do.

Sincerely,
Jim Hoppensteadt
President / COO
Pelican Bay Foundation
6251 Pelican Bay Blvd.
Naples, FL 34108
239-260-8460 direct
239-597-6927 fax

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On 6/23/21, 6:23 PM, "Susan OBrien" <naplessusan@rcn.com> wrote:

Thanks, Jim.

I know you were very busy today. Would appreciate your confirming that R. 30.8 is the right cut-off between "public" and "private beach. I thought the County had agreed to extend this cut-off.

Thanks,

Susan

> On Jun 23, 2021, at 6:10 PM, James Hoppensteadt <jimh@pelicanbay.org> wrote:

>

> Thanks Susan. Lisa J. did forward my a copy of Andy's email with the summary chart. I saw some accompanying diagrams, but have not reviewed them.

>

> Sincerely,

> Jim

> Jim Hoppensteadt

> President

> Pelican Bay Foundation

> 239-398-7074

>

>> On Jun 23, 2021, at 5:33 PM, Susan OBrien <naplessusan@rcn.com> wrote:

>> Hi Jim,

>>

>> Did you receive the County's latest engineering with beach renourishment information? If not, I'll send you a copy of what I received.

>>

>> Thanks,

>>

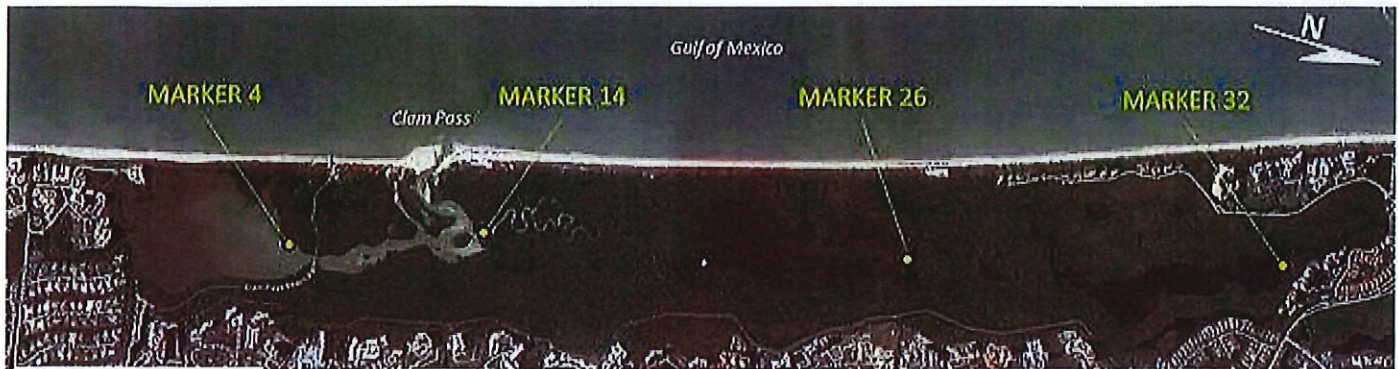
>> Susan O'Brien

" Restoring Beaches as Natural Coastal Systems "



HUMISTON & MOORE
ENGINEERS
Consulting Coastal Engineers

- Home
- About H&M
- Services
- Projects
- Contact
- Careers
- Client Login

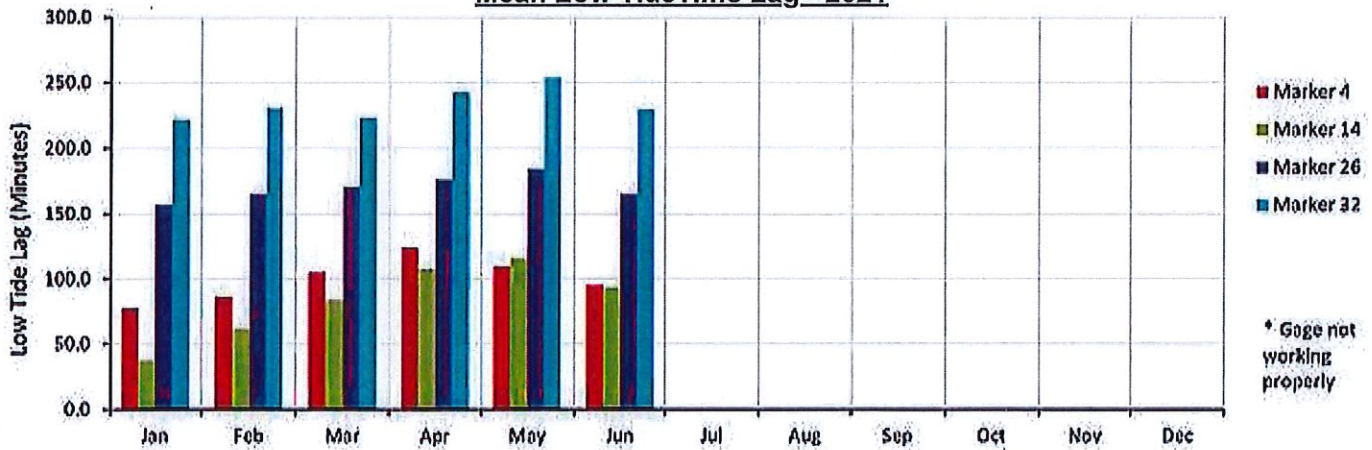


Tide Gages Location

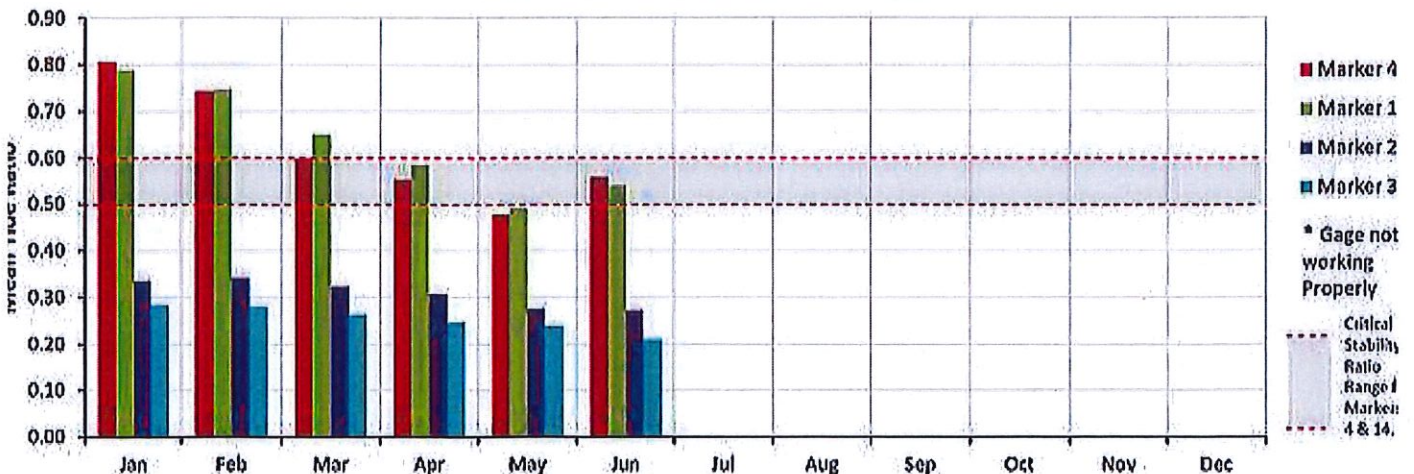
Monthly Time Series 2021 (Click on Thumbnails to Expand)

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Mean Low Tide Time Lag - 2021



Gage/Gulf Mean Tide Ratios - 2021



SheaBarbara

Subject: FW: Clam Pass conditions update
Attachments: ClamPass-North view-July6-2021.JPG; ClamPass-South view-July6 2021.jpg; Plan-Clam-FullPermitBeachWidth-PostAerials 2021-07-06.pdf

From: Mohamed Dabees <md@humistonandmoore.com>
Sent: Thursday, July 8, 2021 12:36 PM
To: JacobLisa <Lisa.Jacob@colliercountyfl.gov>
Cc: ColemanChad <Chad.Coleman@colliercountyfl.gov>; NeilDorrill <neil@dmgfl.com>
Subject: Clam Pass conditions update

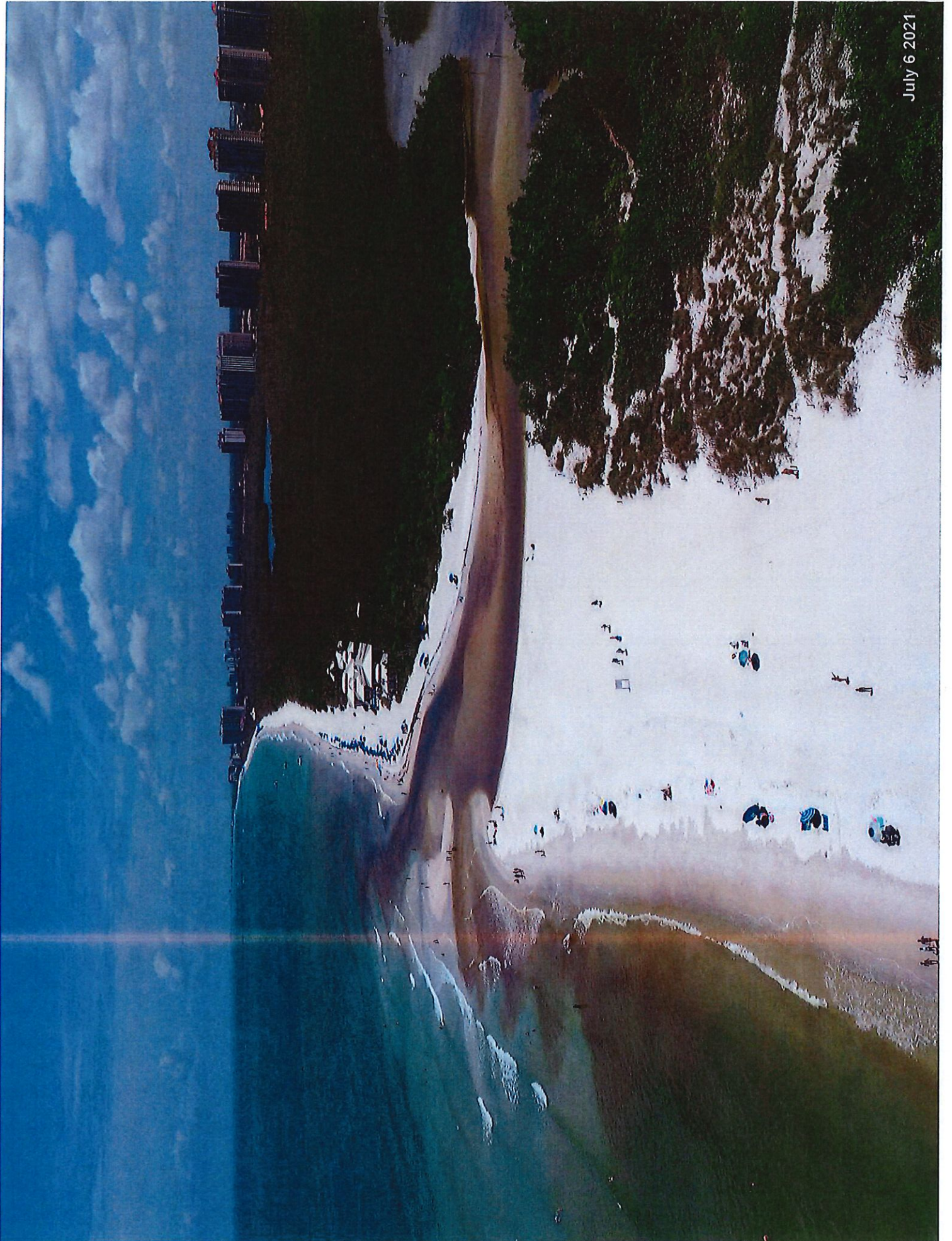
Lisa,

Attached are recent aerials taken on July 6, 2021 and an exhibit showing the permitted template overlay on the July 6th aerial.

Mohamed

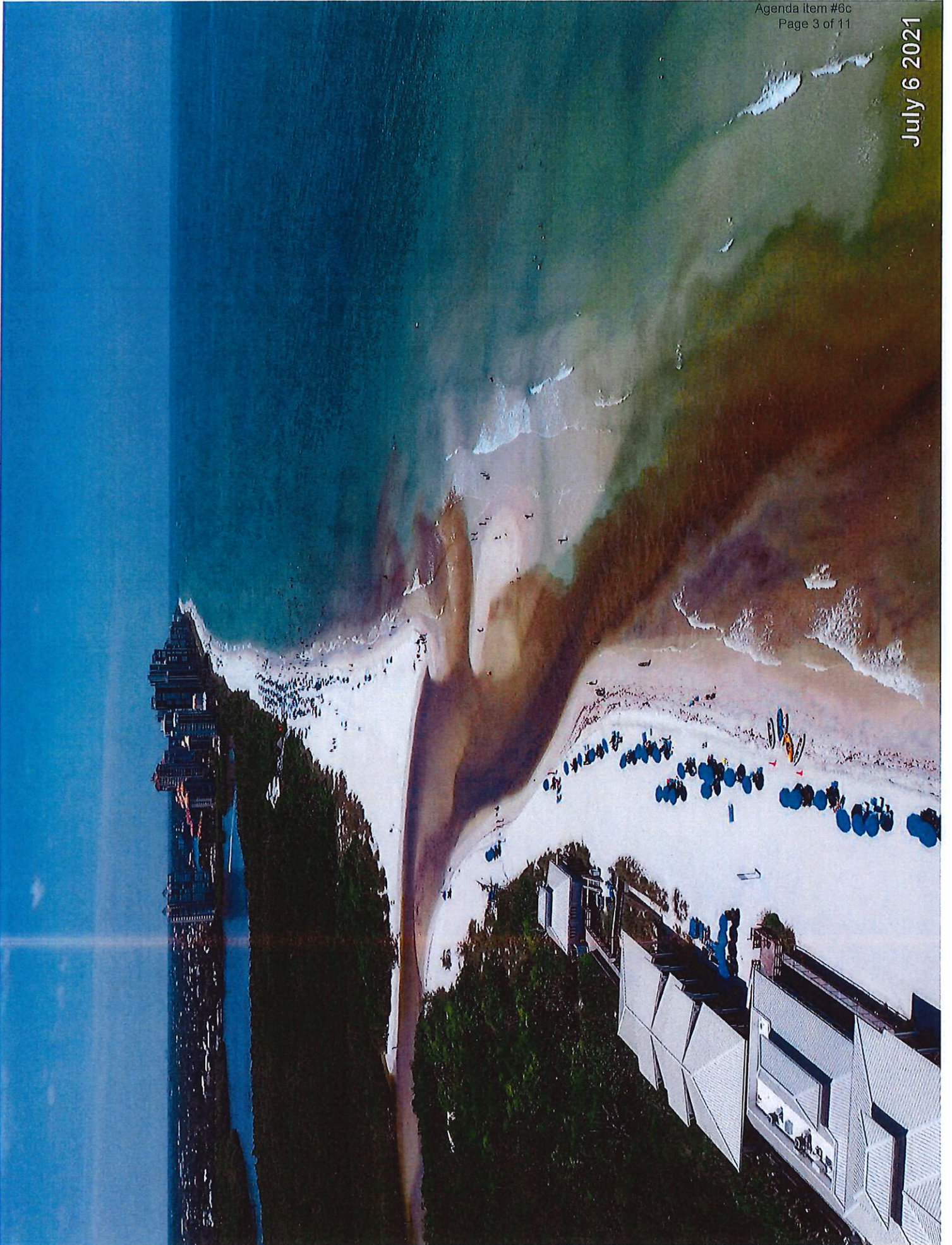
Mohamed Dabees, PhD., PE., D.CE.
Vice President
Humiston & Moore Engineers
5679 Strand Ct., Naples, FL 34110
239-594-2021
<http://www.humistonandmoore.com/>

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July 6 2021

July 6 2021





LEGEND

- SEAGRASS AREAS PER JULY 2020 ANNUAL MONITORING SURVEY.
- ▨ EXCAVATION FROM SEAWARD END OF CHANNEL TO STATION 5+60.

NOTES:
* EXCAVATION FROM SEAWARD END OF CHANNEL TO STATION 5+60.



HUMISTON & MOORE ENGINEERS, INC.
CORPORATE OFFICE
AND PERMITTING

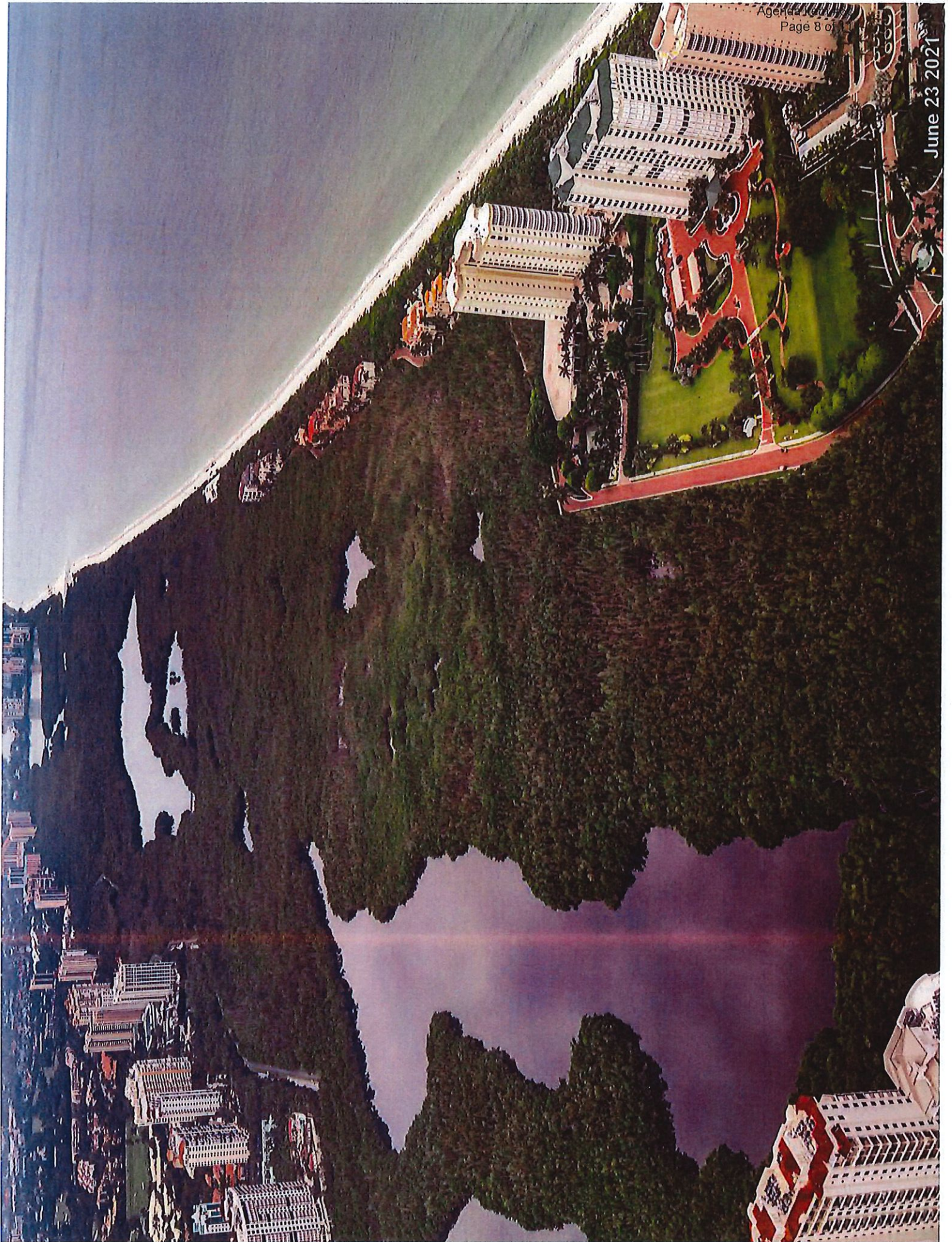
CLAM PASS MAINTENANCE PROJECT
SITE PLAN - PERMITTED TEMPLATE
FOR: COLLIER COUNTY
DATE: 7/6/21 FILE: PLAN SCALE: SHOWN
JOB: 23065 DATUM: NAVD88 SHEET:

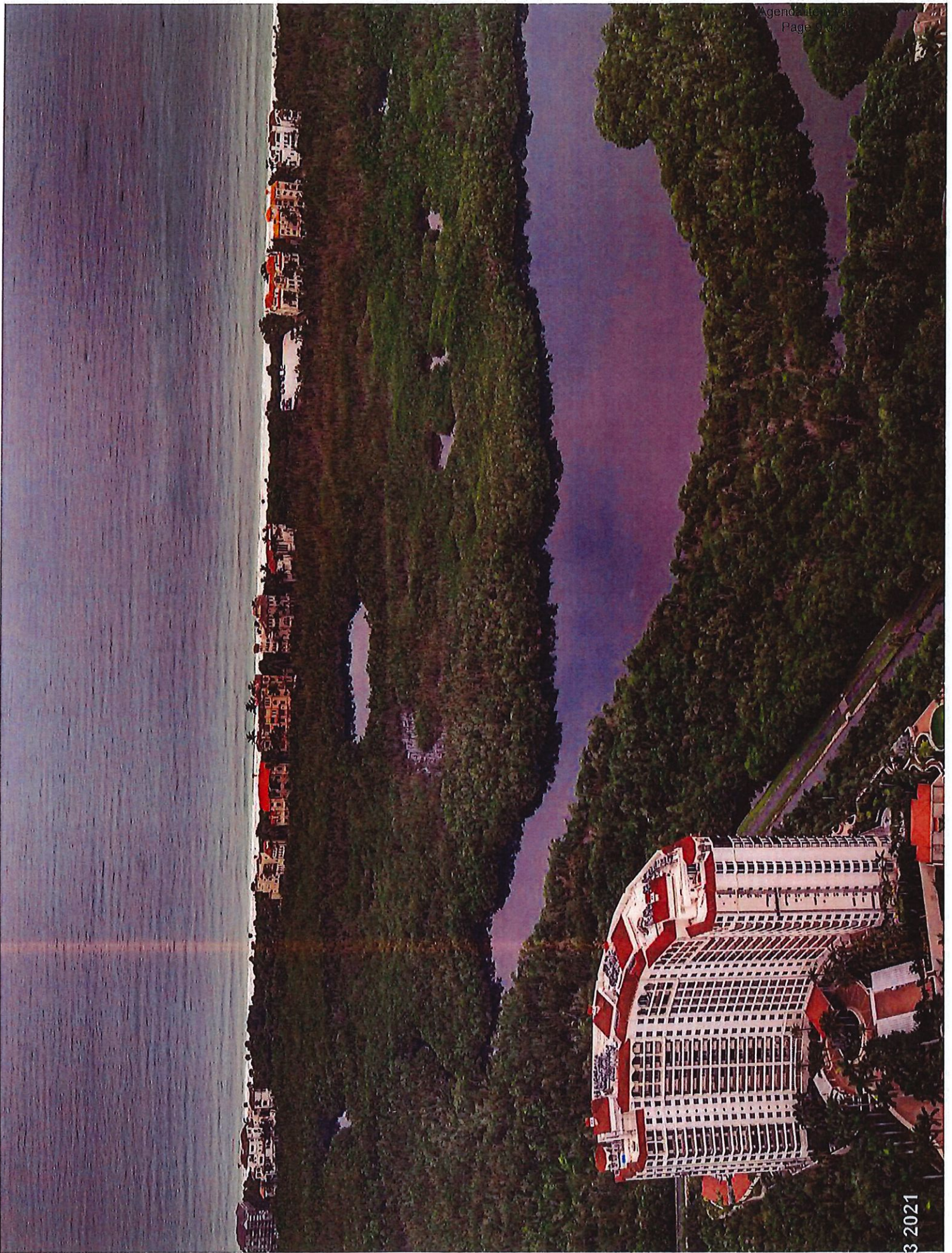
5670 STRAND COURT
NAPLES, FL 34110
FAX: (239) 594-2025
PHONE: (239) 594-2021
www.humistonandmoore.com















EXECUTIVE SUMMARY

Recommendation to authorize expenditure of Tourist Development Tax funds for Clam Pass maintenance in the amount of \$357,739.80 for Option 2 for construction, engineering and surveying, monitoring, and permitting, authorize the necessary budget amendments, and make a finding that this item promotes tourism.

OBJECTIVE: To select a marine contractor to perform mechanical bypassing and regrading of accumulated sand and restoration of the Clam Pass inlet channel and banks.

CONSIDERATIONS: Collier County Ordinance No. 2002-27, as amended, established the Pelican Bay Municipal Service Taxing and Benefit Unit for the purpose of providing street lighting, water management, beach renourishment, ambient noise management, extraordinary law enforcement service and beautification, including but not limited to beautification of recreation facilities, sidewalk, street and median areas, identification markers, and maintenance of conservation or preserve areas. Pelican Bay Services Division (PBSD) is solely responsible for advising the County on dredging and maintaining Clam Pass and manages such activities for the County.

Clam Pass is a small inlet in Collier County that supports tidal flow to the wetland preserve of Clam Bay Natural Resource Protection Area (NRPA). Maintenance dredging is essential to the health of the system because of the relatively small tidal prism for Clam Bay which is typically at a critical balance between tidal energy and littoral process at the inlet channel. The Florida Department of Environmental Protection (FDEP) Clam Pass maintenance dredging Permit No 0296087-001-JC was modified in 2019 (Permit No. 0296087-007-JN) to incorporate minor updates to the disposal fill template and conditions for work during turtle nesting season. Monitoring of the hydraulic and physical conditions of the Clam Bay system includes continuous water level and tidal data collection at 4 locations within the bay system.

The monitoring of inlet conditions indicates continued high rates of sand accumulation at the south bank of the inlet and progressive channel migration northward. There has been persistent flow of sand from south side of the inlet since sand placement at Clam Pass Park in January 2020.

A limited maintenance excavation and grading project was completed in April 2020 to mechanically bypass the sand accumulation at the south side of the inlet and restore the inlet channel to its design template. Additional limited maintenance work was completed in December 2020 which included removal of the sand spit and re-grading the inlet entrance using mechanical equipment. The approximate volume of sand that was relocated within the template approximately 10,000 cubic yards. These maintenance events helped restore tidal flow, but the sand has continued to encroach upon the inlet channel from the south pushing the channel to the north.

The proposed maintenance work includes two options. Option 1 consists of partial excavation and Option 2 consists of full dredging of the template. The construction plans show the proposed cut and fill areas. The approximate volume of sand to be relocated within the template is on the order of approximately 7,000 cubic yards for a partial excavation, and approximately 11,000 cubic yards for a full dredge. Work is anticipated to start as soon as necessary.

Timeline will be dependent on conditions of the inlet over the coming few months. Clam Pass is a small dynamic inlet and conditions may change over time especially following storms. The requested quotes are for two options to allow for inlet maintenance of partial or full dredge of the permitted template depending on inlet conditions over the coming few months. As such Standard Technical Specs states

inlet maintenance work to be conducted outside of nesting season. However, if conditions of the inlet require earlier action due to storms during this 2021 tropical season, work may be necessary prior to Nov 1, 2021. The contractor may provide windows of time for their availability for each option over the 6 months period of August 2021 through February 2022 and required lead time from NTP to mobilization.

On May 28, 2021, staff requested quotes from all vendors currently under contract with the County under Agreement No. 19-7624, "Marine Contractor Services." Two vendors under contract submitted quotes, which were received and opened by staff on June 11, 2021.

The bids received are summarized below.

VENDOR	Quote Option 1	Quote Option 2
TSI Disaster Recovery	\$ 144,000.00	\$ 264,000.00
Quality Enterprises USA., Inc..	\$ 218,400.00	\$ 343,200.00
Kelly Brothers	No Quote	No Quote
Marine Contracting Group, Inc	No Quote	No Quote

The Engineer of Record has determined that TSI Disaster Recovery is the lowest responsive and responsible quoter, and the Contractor's quote of \$264,000.00 is reasonable and consistent with industry standards. Staff recommends awarding a Purchase Order to TSI Disaster in the amount of \$264,000.00. The work will cover a period of 90 days, with 30 days until substantial completion. Subject to the Board's approval, staff will issue a Notice to Proceed to commence services.

Estimated costs for the project are as follows:

Task	Option 1	Option 2
Construction	\$ 144,000.00	\$ 264,000.00
Engineering and Surveying	\$ 25,914.00	\$ 32,034.00
Environmental Monitoring & Reporting	\$ 12,964.00	\$ 24,184.00
Permit Fees	\$ 5,000.00	\$ 5,000.00
Contingency @ 10%	\$ 18,787.80	\$ 32,521.80
TOTAL	\$ 206,665.80	\$ 357,739.80

FISCAL IMPACT: The total estimated cost for Clam Pass maintenance is \$206,665.80 for Option 1 and \$357,739.80 for Option 2.

LEGAL CONSIDERATIONS: This item is approved as to form and legality and requires majority vote for Board approval.- CMG

RECOMMENDATION: To authorize an expenditure of Tourist Development Tax funds for Clam Pass maintenance in the amount of \$357,739.80 for Option 2 for construction, engineering and surveying, monitoring, and permitting, authorize the necessary budget amendments, and make a finding that this item promotes tourism.

Prepared by: Lisa Jacob, Project Manager, Pelican Bay Services Division

ATTACHMENT(S)

1. 2a-2021-Clam-HM-Maintenance-2021-Opt1 (PDF)