



TOWN OF PALM BEACH

Town Manager's Office

**TENTATIVE-
SUBJECT TO
REVISION**

SHORE PROTECTION BOARD MEETING

AGENDA

FRIDAY, JANUARY 27, 2023

9:00 AM

**TOWN COUNCIL CHAMBERS
360 SOUTH COUNTY ROAD**

WELCOME!

The progress of this meeting may be monitored by visiting the Town's website (www.townofpalmbeach.com) and selecting "Live Meeting Audio" under the "Your Government" tab. If you have questions regarding that feature, please contact the Office of Information Systems (561) 227-6315. The audio recording of the meeting will appear within 24 hours after the conclusion of the meeting under "Agendas, Minutes, and Audio."

I. CALL TO ORDER

II. ROLL CALL

Melissa Ceriale, Acting Chair
Warren Belmar, Shore Protection Board Member
Peter Matwiczuk, Shore Protection Board Member
Ronald Matzner, Shore Protection Board Member
Erick Reickert, Shore Protection Board Member
Doug Rogers, Shore Protection Board Member
Joel Zylstra, Shore Protection Board Member

III. PLEDGE OF ALLEGIANCE

IV. APPROVAL OF AGENDA

V. ELECTION OF CHAIR FOR 2023 SHORE PROTECTION BOARD

VI. ELECTION OF VICE-CHAIR FOR 2023 SHORE PROTECTION BOARD

VII. APPROVAL OF THE MINUTES OF THE NOVEMBER 2, 2022 MEETING

VIII. COMMUNICATIONS FROM CITIZENS - 3 MINUTE LIMIT PLEASE

- IX. CURRENT SHORELINE CONDITIONS
[Robert Weber, Coastal Program Manager]
- X. 2022 TOWNWIDE SAND MOVEMENT REVIEW AND EROSION RATES DISCUSSION
[Robert Weber, Coastal Program Manager, and Michael Jenkins, Ph.D., P.E., Coastal Engineering Principal, Applied Technology & Management, Inc.]
- XI. COASTAL PROJECTS UPDATE
[Robert Weber, Coastal Program Manager]
- 2023 Lake Worth Inlet Maintenance Dredging
 - 2023-2024 Reach 7/Phipps Ocean Park Beach Nourishment
 - 2023-2024 Dune Restoration
- XII. EDUCATION SERIES VIDEOS AND NEXT STEPS
[Patricia Strayer, P.E., Town Engineer]
- XIII. ESTABLISH SHORE PROTECTION BOARD GOALS
[Patricia Strayer, P.E., Town Engineer]
- XIV. PRESENTATION FROM FRIENDS OF PALM BEACH
- XV. SCHEDULING OF FUTURE MEETINGS
[Patricia Strayer, P.E., Town Engineer]
- Regular SPB Meetings, March 30, 2023 and November 2, 2023
- XVI. COMMUNICATIONS FROM SHORE PROTECTION BOARD MEMBERS
- XVII. ANY OTHER MATTERS
- XVIII. ADJOURNMENT

Note: Disabled persons who need an accommodation in order to participate in the Town Council Meeting are requested to contact the Town Manager's Office at 838-5410 or through the Florida Relay Service by dialing 1-800-955-8770 for voice callers or 1-800-955-8771 for TDD callers, at least two (2) working days before this meeting.



TOWN OF PALM BEACH

Town Manager's Office

MINUTES OF THE SHORE PROTECTION BOARD MEETING HELD ON THURSDAY, NOVEMBER 2, 2022

I. CALL TO ORDER

The Shore Protection Board meeting was called to order on Wednesday, November 2, 2022, at 9:00 a.m.

II. ROLL CALL

All of the Board Members were present with the exception of Board Member Peter Matwiczky and Board Member Doug Rogers.

Melissa Ceriale, Chairperson
Warren Belmar, Vice Chairperson
Robb Allan, Board Member
Ronald Matzner, Board Member
Erick Reickert, Board Member

III. PLEDGE OF ALLEGIANCE

Chairperson Melissa Ceriale led the Pledge of Allegiance.

IV. APPROVAL OF AGENDA

Motion was made to approve the agenda by Board Member Warren Belmar. Motion seconded by Board Member Ronald Matzner. Motion carried unanimously.

V. APPROVAL OF THE MINUTES OF THE MARCH 24, 2022 MEETING AND APRIL 28, 2022 WORKSHOP

Motion was made to approve the agenda by Board Member Warren Belmar with a correction to minutes of the March 24, 2022 meeting due to a typographical error. Motion seconded by Board Member Ronald Matzner. Motion carried unanimously.

VI. COMMUNICATIONS FROM CITIZENS - 3 MINUTE LIMIT PLEASE

There were no communications from citizens.

**MINUTES OF THE SHORE PROTECTION BOARD MEETING
HELD ON THURSDAY, NOVEMBER 2, 2022**

VII. CURRENT SHORELINE CONDITIONS

[Robert Weber, Coastal Program Manager]

Coastal Program Manager, Robert Weber, presented a slideshow of the shoreline conditions.
Discussion ensued.

VIII. COASTAL PROJECTS UPDATE

[Robert Weber, Coastal Program Manager]

Coastal Program Manager, Robert Weber, shared the next Army Corps. of Engineers Maintenance Dredging Project is scheduled early 2023. Easements have been recorded and presented to the Corps.
Discussion ensued.

IX. EDUCATION SERIES VIDEOS

[Patricia Strayer, P.E., Town Engineer]

Patricia Strayer, P.E., Town Engineer, introduced Thomas Pierro, Principle Engineer, Coastal Protection Engineer, who presented four (4) series of the educational videos created for media use. Discussion and suggestions ensued.

X. DRAFT ANNUAL SHORE PROTECTION BOARD REPORT TO TOWN COUNCIL

[Robert Weber, Coastal Program Manager]

Mr. Weber presented the report to the Board. Corrections noted and discussion ensued.

Board Member Warren Belmar made a motion to approve the Annual Report. Motion seconded by Board Member Ronald Matzner. Motion carried unanimously.

XI. SCHEDULING OF FUTURE MEETINGS

[Patricia Strayer, P.E. Town Engineer]

Patricia Strayer, P.E., Town Engineer, discussed next SPB meeting date to be held January 27, 2023.

Discussion ensued regarding items for the January 27th agenda to include: Annual Sand Movement Review, Coastal Resiliency Plan, Revised Videos and Next Steps.

Additional meeting, Thursday, March 30, 2023.

XII. COMMUNICATIONS FROM SHORE PROTECTION BOARD MEMBERS

No additional comments from the Board Members.

XIII. ANY OTHER MATTERS

No additional matters from the Board Members.

XIV. ADJOURNMENT

There being no further business, the Shore Protection Board of November 2, 2022, was adjourned at 11:00am.

**MINUTES OF THE SHORE PROTECTION BOARD MEETING
HELD ON THURSDAY, NOVEMBER 2, 2022**

APPROVED:

Melissa Ceriale,
Chairperson

Meeting audio is located at:

https://townofpalmbeach.granicus.com/player/clip/2549?view_id=5&redirect=true&h=63006ea48cc7da5a2726e3a8e988e7f1

TOWN OF PALM BEACH

Information for Shore Protection Board Meeting on: January 27, 2023

TO: Shore Protection Board

FROM: Kirk W. Blouin, Town Manager

VIA: Robert Weber, Coastal Program Manager

RE: 2022 Town-wide Sand Movement Review and Erosion Rates Discussion
Item X.

DATE: January 20, 2023

STAFF RECOMMENDATION

Town staff requests that the Shore Protection Board (SPB) review the attached information and provide direction deemed necessary.

GENERAL INFORMATION

Each year, the Town contracts with a consultant to complete Town-wide physical surveys. This year, the survey was performed by Applied Technology & Management, Inc. (ATM). These surveys are generally conducted in the late summer/fall season. This data is used to compare the short-term change (annual) and the long-term change (20+ years, since the 1990 baseline) of both shoreline position and sand volume.

ATM organizes all physical monitoring data into a Town-wide report. The purpose of the report is to provide an analysis of the Town-wide coastal processes including volumetric change data. This analysis aids the Town in planning and implementing appropriate shore protection projects.

The Executive Summary of the report is attached. An explanation of the attached text, maps and figures will be provided in a presentation by ATM at the January 27, 2023 SPB meeting.

FUNDING/FISCAL IMPACTS

There are no funding or fiscal impacts from this item. The Coastal Management Program budget includes funding for the annual physical monitoring and reporting efforts.

Attachments

cc: H. Paul Brazil, P.E., Director of Public Works
Patricia Strayer, P.E., Town Engineer
Mike Jenkins, Ph.D., P.E., ATM

Town of Palm Beach Town-Wide 2022 Physical Monitoring Report

Prepared By:



Prepared For:



Palm Beach Island Beach Management Agreement (BMA)

IPA Permit Number: 0328802-002-BMA &

IPA Permit Number: 0328802-003-BMA

JANUARY 2023

Town of Palm Beach

2022 Town-Wide Physical Monitoring Report

EXECUTIVE SUMMARY

The Town of Palm Beach conducts annual monitoring of their 12.2 miles of shoreline along Palm Beach Island from Lake Worth Inlet to the Town of South Palm Beach. The results provide guidance for erosion control initiatives planned to help manage the 'critically eroded' shoreline within the Town limits. Eight (8) reaches extend from north to south and encapsulate FDEP reference monuments R-76 at Lake Worth Inlet to R-134 at the boundary with the Town of South Palm Beach. The Town originally defined the reach segments as part of a Comprehensive Coastal Management Plan (CCMP) completed in 1986 by Cubit Engineering and has subsequently revised the boundaries as follows:

- | | |
|--|-------------------------------------|
| ▪ Reach 1: (R-76 to R-78) | ▪ Reach 5: (R-102+300 to R-110+100) |
| ▪ Reach 2: (R-78 to R-90+400) | ▪ Reach 6: (R-110+100 to R-116+500) |
| ▪ Reaches 3 & 4: (R-90+400 to R-102+300) | ▪ Reach 7: (R-116+500 to R-128+500) |
| | ▪ Reach 8: (R-128+500 to R-134) |

The monitoring includes approximately 1.4 miles of shoreline north of Lake Worth Inlet to evaluate bypassing expectations. The Town coordinates with the FDEP to understand the annual bypassing rate of Lake Worth Inlet and the additional monitoring provides assurances for the estimated values. The Town also monitors the island wide sediment budget to compare annual erosion losses with volumetric gains experienced through nourishment actions. The sediment budget provides a high-level assessment to guide the Town in planning future shoreline initiatives. Accounting for recent nourishment events and bypassing activities also helps to maintain a perspective on significant changes in the year to year data trends. For reference, the current analysis includes the following projects as part of the shoreline evaluation:

- Palm Beach Harbor Maintenance Dredging (2022);
- Lake Worth Inlet Sand Transfer Plant Operations (STP) (July 2021 to July 2022);
- Reach 4 (Mid-Town) Dune Restoration (2022);
- Phipps Nourishment (2021); and,
- Mid-Town Beach Restoration (2020).

Table ES 1 provides a summary of the 2021 to 2022 monitoring results. The long-term shoreline migration analysis compares survey information from 1990 and 2015 with current conditions (2022) to determine the shoreline recession (-) or advance (+). The short-term analysis compares the previous survey data (2021) with the current information (2022). The volumetric analysis relies on the 1990 survey information for comparison of the long-term trend with the current condition (2022). Similarly, the short-term analysis evaluates the trends observed in the most recent monitoring period (2021 to 2022).

Please note, a report evaluating storm impacts from the 2022 Hurricane season will be provided under separate cover. Most notably, the storm analysis accounts for impacts occurring from Hurricane Ian (September 28, 2022) and Hurricane Nicole (November 10, 2022). This report provides a synopsis of the measured storm impacts as part of the executive summary.

Table ES 1. Physical Monitoring Results

Location	Total Change	Unit Change
Short-Term Changes - July 2021 to July 2022		
Average (MHW) Shoreline Change:	(ft)	(ft/yr)
Reach 1: (R-76 to R-78)	+64.7	+64.7
Reach 2: (R-78 to R-90+400)	+12.2	+12.2
Reaches 3 & 4: R-90+400 to R-102+300)	-24.5	-24.5
Reach 5: (R-102+300 to R-110+100)	+1.4	+1.4
Reach 6: (R-110+100 to R-116+500)	+2.5	+2.5
Reach 7: (R-116+500 to R-128+500)	-25.2	-25.2
Reach 8: (R-128+500 to R-134)	-5.4	-5.4
Town-Wide	-5.2	-5.2
Volumetric Changes (to -26.2* feet):	(CY)	(cy/ft/yr)
Reach 1: (R-76 to R-78)	+112,193	+46.9
Reach 2: (R-78 to R-90+400)	+163,649	+12.1
Reaches 3 & 4: R-90+400 to R-102+300)	-71,426	-5.2
Reach 5: (R-102+300 to R-110+100)	-66,392	-7.4
Reach 6: (R-110+100 to R-116+500)	+19,850	+3.0
Reach 7: (R-116+500 to R-128+500)	-80,748	-6.6
Reach 8: (R-128+500 to R-134)	+34,727	+5.1
Town-Wide	+111,849	+1.74
Long-Term Changes - August 1990 to July 2022		
Average (MHW) Shoreline Change:	(ft)	(ft/yr)
Reach 1: (R-76 to R-78)	+206.8	+6.5
Reach 2: (R-78 to R-90+400)	+43.2	+1.4
Reaches 3 & 4: R-90+400 to R-102+300)	+48.4	+1.5
Reach 5: (R-102+300 to R-110+100)	+45.7	+1.4
Reach 6: (R-110+100 to R-116+500)	+53.0	+1.7
Reach 7: (R-116+500 to R-128+500)	+47.8	+1.5
Reach 8: (R-128+500 to R-134)	-6.3	-0.2
Town-Wide	+47.4	+1.5
Volumetric Changes (to -26.2* feet):	(CY)	(cy/ft/yr)
Reach 1: (R-76 to R-78)	+695,462	+9.1
Reach 2: (R-78 to R-90+400)	+250,344	+0.6
Reaches 3 & 4: R-90+400 to R-102+300)	+1,233,676	+2.8
Reach 5: (R-102+300 to R-110+100)	+903,476	+3.2
Reach 6: (R-110+100 to R-116+500)	+419,424	+2.0
Reach 7: (R-116+500 to R-128+500)	+1,523,998	+3.9
Reach 8: (R-128+500 to R-134)	+218,280	+1.0
Town-Wide	+5,244,661	+2.5

The monitoring results support the Town's efforts to manage the 'critically eroded' shoreline along their oceanfront. The 2021 to 2022 monitoring results help demonstrate the erosion stresses impacting the Town while the long-term analysis shows the beneficial trends created by the management actions. The discussion below addresses the analysis results by reach and reinforces the positive strategies implemented since 1990 to maintain the Town's oceanfront.

Reach 1: (R-76 to R-78)

Reach 1 experienced significant benefits from the Palm Beach Harbor Maintenance Dredging and the STP bypassing operations. The maintenance dredging placed approximately 293,000 CY along the shoreline in Reach 1 and the STP bypassed another 176,400 CY. These actions assisted the short-term shoreline performance in providing an average seaward advance of +64.7 feet and volumetric gain of +112,193, or +46.9 cy/ft/yr during the 2021 to 2022 monitoring period. The short-term migration and volumetric change rate exceeds the long-term trends measured since 1990. The long-term migration measured from 1990 to 2022 equals +206.8-ft or +6.5 ft/yr. The long-term volumetric change rate measured from 1990 to 2022 out to the DOC equals +9.1 cy/ft/yr. Given the significant volume placed by the maintenance dredging event, expectations suggest the short-term rates will approach the long-term averages during the next monitoring period.

Reach 2: (R-78 to R-90+400)

Reach 2 also benefitted from the Palm Beach Harbor Maintenance Dredging as sand placement continued from Reach 1 to approximately R-79+330. Reach 2 recorded an average shoreline advance of +12.2 ft and a volumetric gain of +163,649 CY for the 2021 to 2022 monitoring period. The largest shoreline advance occurred at R-78, which falls within the material placement limits of the maintenance dredging and measured approximately +102.9 feet. The beneficial use placement area also measured a volumetric gain of approximately 105,000 CY between R-78 and R-80. The benefit of the maintenance dredging may be realized by comparing the long-term trends measured since 1990 for both the shoreline migration and volumetric change. The long-term shoreline migration measured between 1990 and 2022 equals +43.2 ft or +1.4 ft/yr and the long-term volumetric change equals +250,344 CY or +0.6 cy/ft/yr. Similar to Reach 1, expectations suggest the shoreline migration and volumetric change measured in the current monitoring period (2021 to 2022) will measure closer to the long-term averages in the next monitoring period.

Reach 3 & 4: (R-90+400 to R-102+300)

The shoreline in Reach 3 & 4 averaged a landward retreat during the 2021 to 2022 monitoring period of -24.5 ft with sediment accumulation above MHW. The material accumulation along the berm and upper profile region benefitted from the 2022 Reach 4 (Mid-Town) Dune Restoration. The shoreline received approximately 11,700 CY between R-99 and R-102 as part of the dune restoration efforts. Shoreline segments north of the placement area also experienced a general accumulation of sediment along the berm.

The elevated landward recession registered for Reach 3 & 4 may likely stem from equilibration effects created by the 2020 Mid-Town Beach Restoration. Future monitoring efforts should focus on Reach 3 & 4 to record if the landward recession rates decrease.

The long-term shoreline trends and volumetric change measurements both suggest the Town's efforts manage the erosion forces. The 1990 to 2022 shoreline migration results show an average advance of approximately +48.4 ft, or 1.5 ft/yr since 1990. The volumetric change measurements show an addition of +308,708 CY, or 0.7 cy/ft/yr for the complete reach.

Reach 5: (R-102+300 to R-110+100)

Reach 5 shows a benefit of material spreading from the 2020 Mid-Town project area in Reach 3 & 4. Reach 5 experienced a shoreline advance of +1.4 feet during the 2021 to 2022 monitoring. However, the shoreline advance measured the greatest in the northern region and reversed to landward recession along the southern portion. The northern advance most likely benefitted with material spreading from the 2020 Mid-Town Beach Restoration in Reach 4. The short-term migration rate matches the average annual long-term measurements of +1.4 ft/yr dating back to 1990.

The short term volumetric measurements yielded a reversal from the long-term rates during the 2021 to 2022 monitoring. The short-term analysis determined a volumetric loss of approximately -66,393 CY or -7.4 cy/ft/yr and the long-term values measured between 1990 and 2022 show a volumetric gain of +903,476 CY, or +3.2 cy/ft/yr. Predominantly the short-term losses occurred in the lower profile region, below MHW. These results indicate a profile steepening as the MHW contour advances with a volumetric loss in the lower profile region.

Reach 6: (R-110+100 to R-116+500)

Reach 6 experienced a relatively uniform trend of shoreline advance and volumetric accretion during the 2021 to 2022 monitoring period. The short-term shoreline migration and volumetric change measured an average seaward advance of +2.5 ft/yr and volumetric gain of 19,850 CY, or +3.0 cy/ft/yr. The generally consistent average trend matches well with expectations and suggests a 1 ft change in shoreline position requires an approximate 1 cy/ft change in volume. The short-term trends also match the long-term measurements for shoreline migration and volumetric change. The average shoreline advance between 1990 and 2022 measures 53.0 ft or 1.7 ft/yr and the average annual volumetric increase measures +2.0 cy/ft/yr.

Reach 7: (R-116+500 to R-128+500)

The monitoring results for Reach 7 reflect equilibration effects from the 2021 Phipps Nourishment, which placed approximately 495,000 CY between R-119 and T-125. The shoreline recorded an average landward recession of -25.2 ft during the 2021 to 2022 monitoring but shows a positive seaward advance for both the 1990 to 2022 and the 2015 to 2022 calculations. Measurements for the 1990 to 2022 monitoring equal a shoreline advance of +47.8 ft, or +1.5 ft/yr. Similarly, measurements for the 2015 to 2022 monitoring equal +48.6 ft, or +7.1 ft/yr.

The volumetric trends reflect a similar pattern with a volumetric loss measured in the 2021 to 2022 monitoring period and a positive gain measured from 1990 to 2022. The short-term analysis shows a volumetric loss of -80,748 CY, or an average of -6.6 cy/ft/yr for the 2021 to 2022 monitoring. Likewise, the long-term monitoring shows a volumetric gain of +1,523,998 CY or an average annual rate of +3.9 cy/ft/yr for the 1990 to 2022 monitoring period.

Reach 8: (R-128+500 to R-134+00)

The shoreline migration results for Reach 8 show an elevated short-term recession trend mixed with a generally stable long-term trend. The average migration for Reach 8 measured -5.4 ft during the 2021 to 2022 monitoring; however, the long-term rate equals -6.3 feet, or -0.2 ft/yr for the 1990 to 2022 monitoring period. These results suggest the Town's management initiatives have compensated for the typical recession patterns likely in Reach 8. The volumetric change results also indicate the effectiveness of the Town's management program for providing a relatively stable shoreline. The long-term analysis indicates the Reach 8 gained approximately +218,280 CY, or +1.0 cy/ft/yr, between 1990 and 2022.

Shoreline North of Lake Worth Inlet

The shoreline north of Lake Worth Inlet analysis shows a significant influence from the Palm Beach Harbor maintenance dredging conducted between February and May 2022. The shoreline analysis shows a net loss of approximately -48,437 CY, or -6.8 cy/ft/yr for the 2021 to 2022 monitoring period. However, the sediment losses predominately originate between profiles R-74 and R-75, which intersect the dredging footprint for the Palm Beach Harbor settling basin. For reference, the analysis shows a volumetric gain of approximately +75,891 CY, or +11.23 cy/ft/yr, north of the maintenance dredging between profiles R-68 and R-74.

Town Wide Sediment Budget

The Town Wide sediment budget agrees with the overall monitoring results for each reach and indicates the Town's management initiatives place sufficient material to mitigate the shorelines long-term erosion. The sediment budget analysis shows the Town's annualized nourishment volume equals +239,441 cy/yr for the monitoring period between 1990 and 2022. The nourishment volume exceeds the annualized erosion (-75,135 cy/yr) by approximately +164,306 cy/yr. The analysis provides a similar result for the 1990 to 2015 monitoring period.

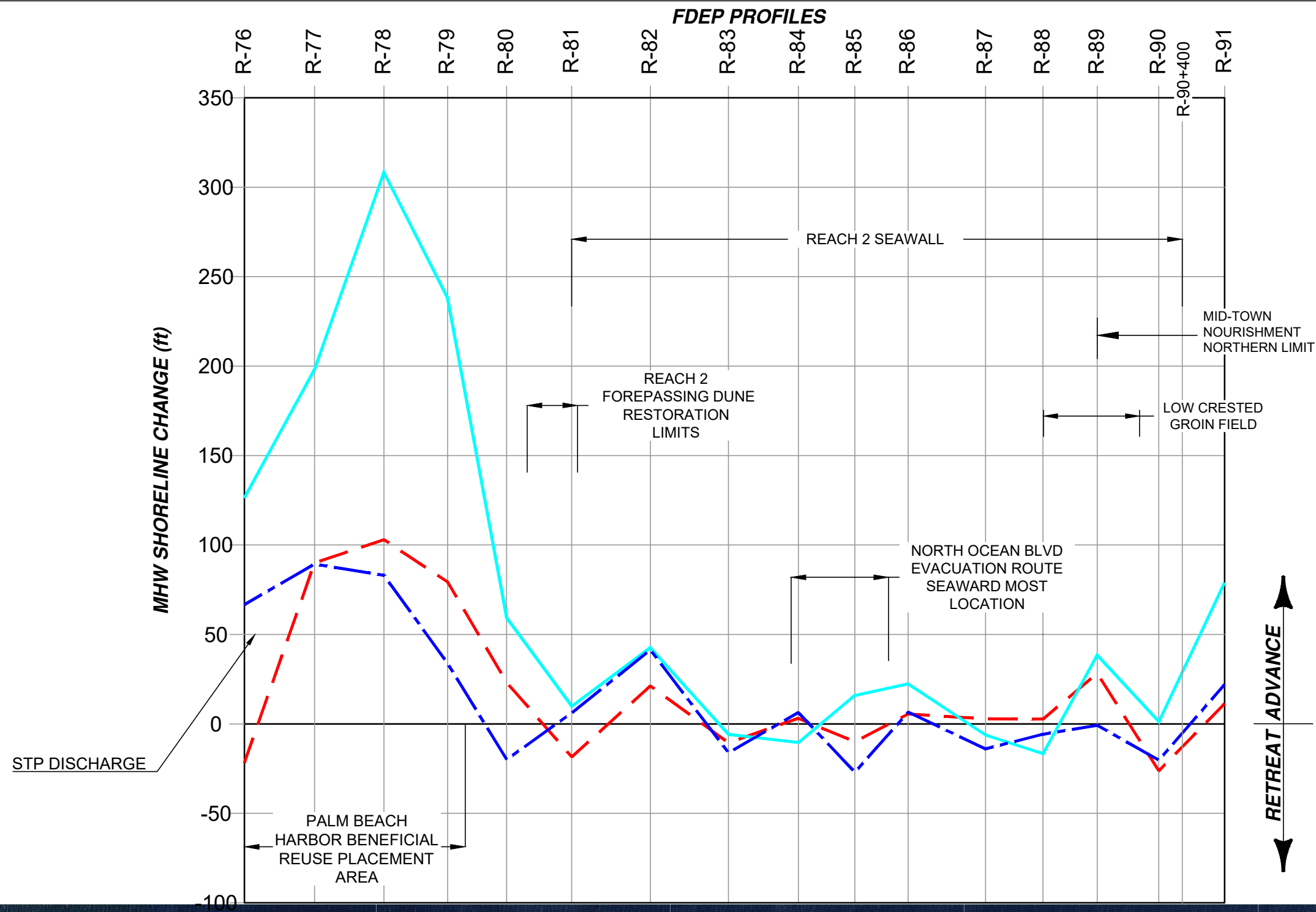
Storm Impacts

The post storm analysis concentrates on determining the shoreline and volumetric losses associated with the Midtown and Phipps projects in Reaches 2 through Reach 4 and Reach 7, respectively. The post storm analysis also includes Reach 8. The shoreline analysis for the Midtown Restoration in Reach 2, 3 & 4 showed an average landward recession of -13.4 ft for profiles R-89 through R-102. The volumetric analysis indicates the impacts focused on the upper profile region and did not significantly impact the overall project area. Volumetric losses in the upper profile (above -13.1 ft) equaled -111,027 CY; however the losses appear to have migrated into the deeper profile region as the overall change measured above the DOC for the Midtown Restoration equaled a volumetric increase of approximately +1,420 CY.

Impacts for the Phipps nourishment area recorded a more significant volumetric loss in the upper profile. The shoreline between R-116+500 and R-128 experienced a volumetric loss above the DOC of approximately -206,475 CY with the losses above elevation -13.1 ft measuring approximately -447,126 CY. Overall, Reach 8 experienced similar trends as the Midtown project area with an average shoreline migration of approximately -6.2 ft and a volumetric gain above the DOC of approximately +33,007 CY. However, volumetric losses in Reach 8 above MHW measured approximately -22,232 CY, which indicates losses occurred from the dune placement area.

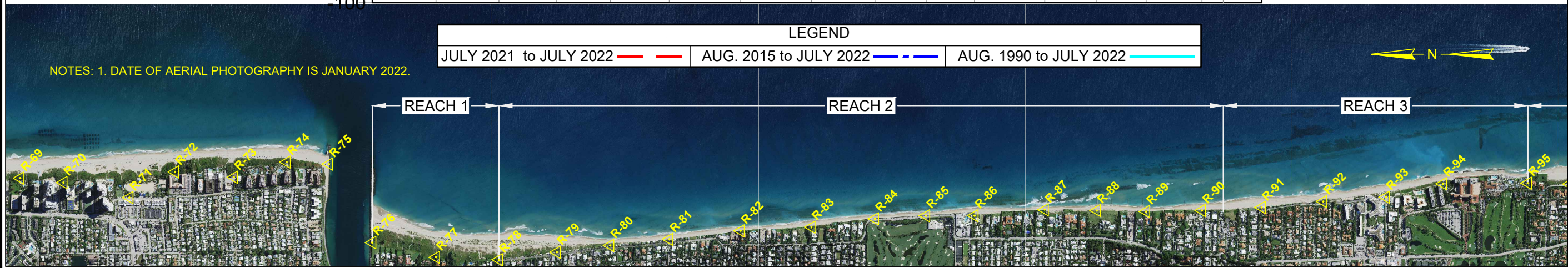
Appendix A
August 1990 to July 2022 Shoreline Change
(Reach 1 thru Reach 8)

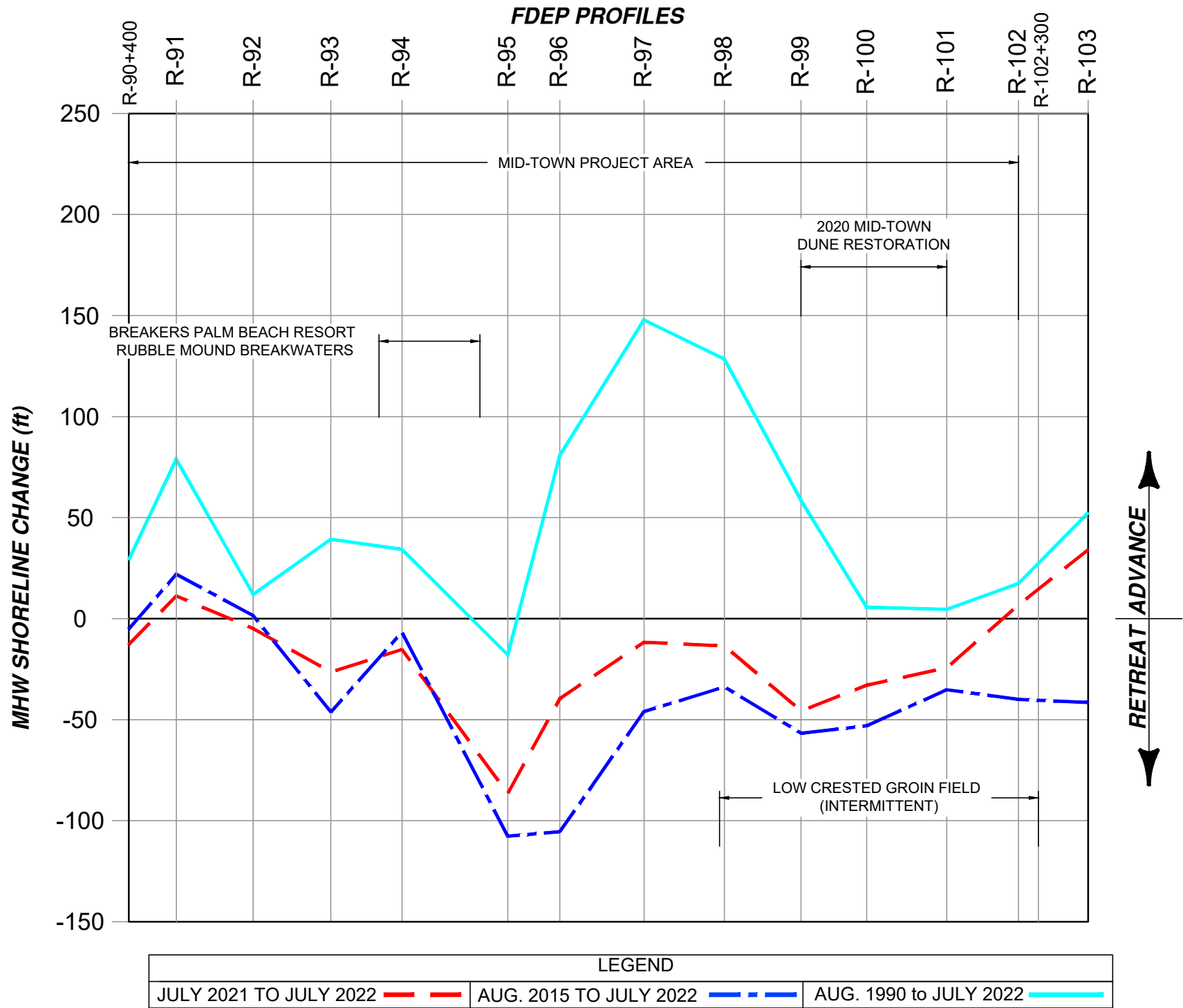
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ROBERT NEAL



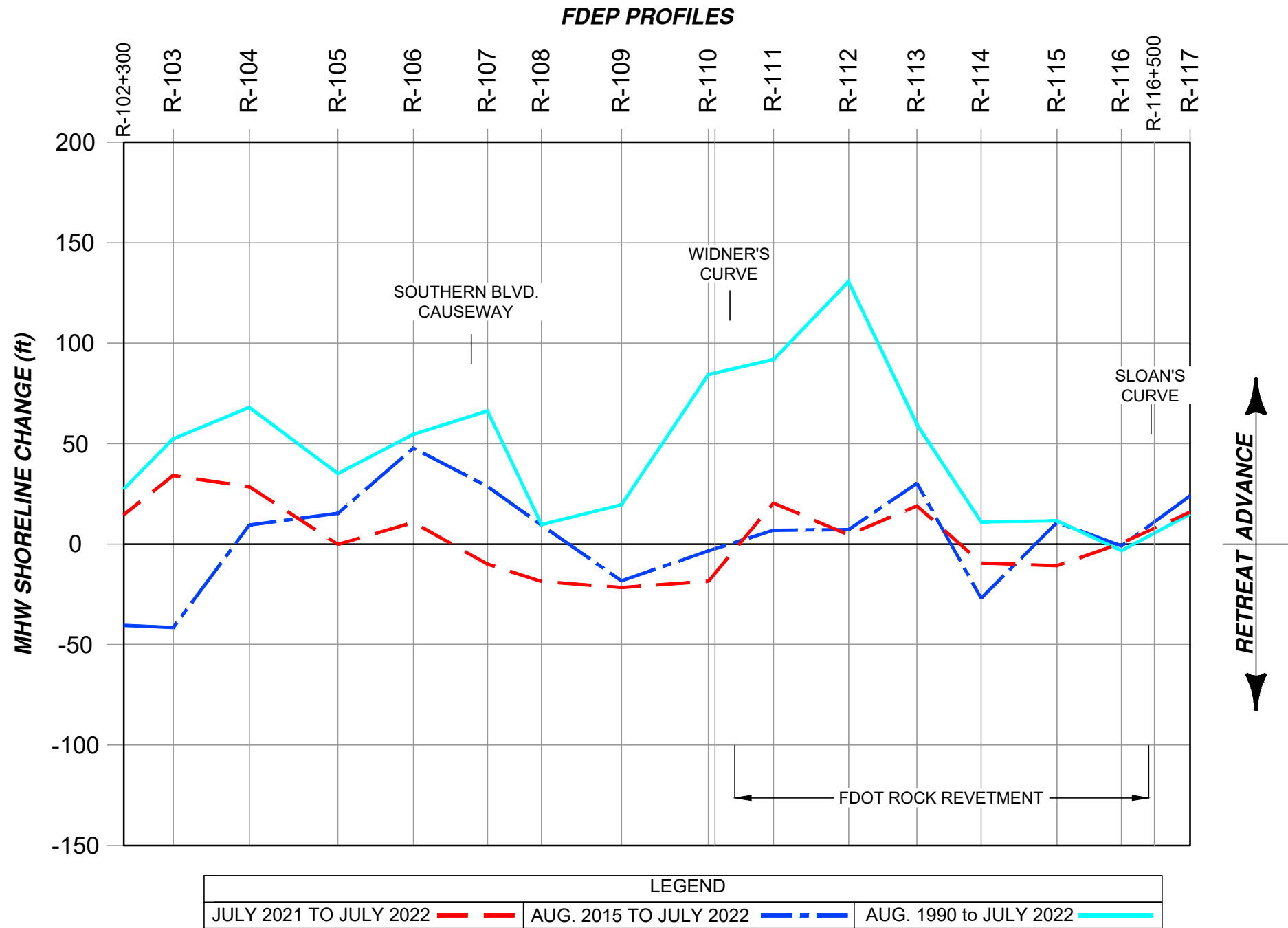
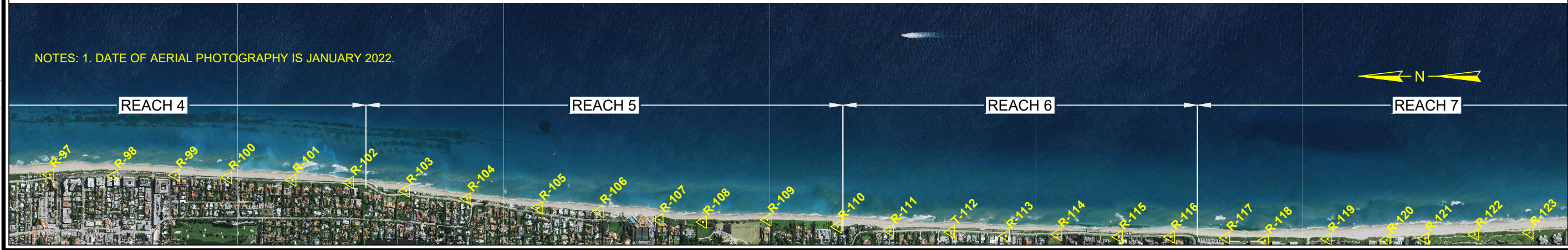
NOTES: 1. DATE OF AERIAL PHOTOGRAPHY IS JANUARY 2022.

LEGEND		
JULY 2021 to JULY 2022	AUG. 2015 to JULY 2022	AUG. 1990 to JULY 2022

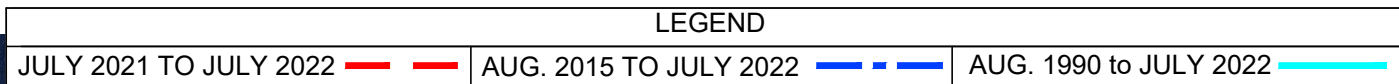
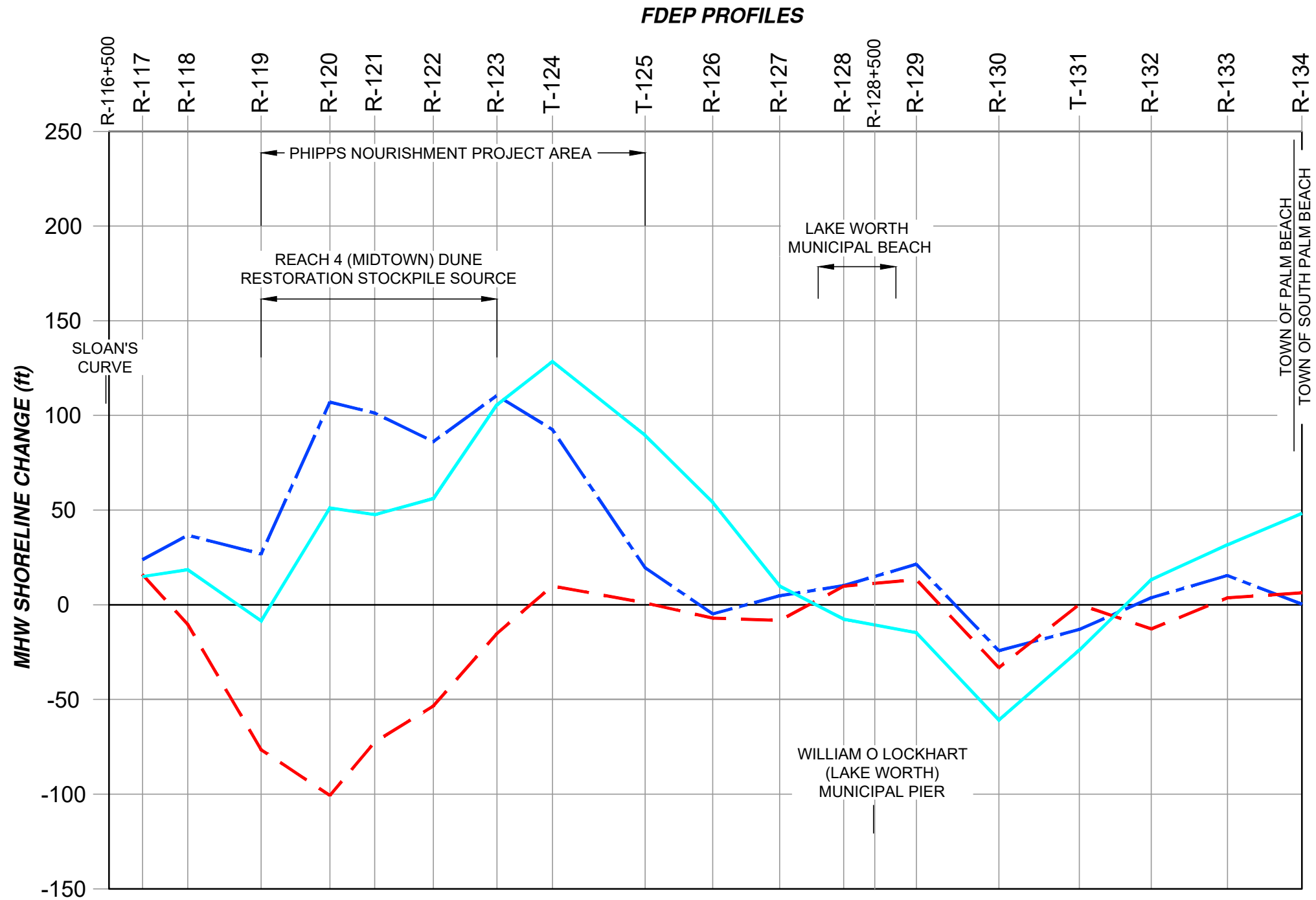




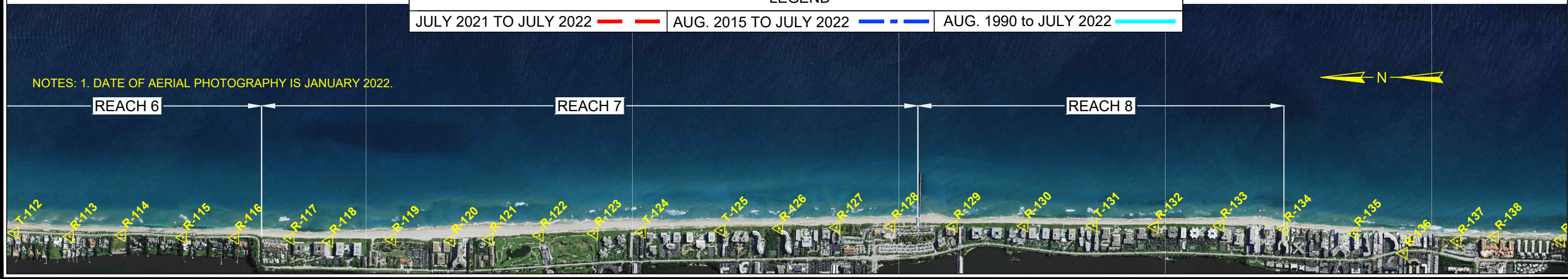
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ROBERT B. NEAL



NOTES: 1. DATE OF AERIAL PHOTOGRAPHY IS JANUARY 2022.



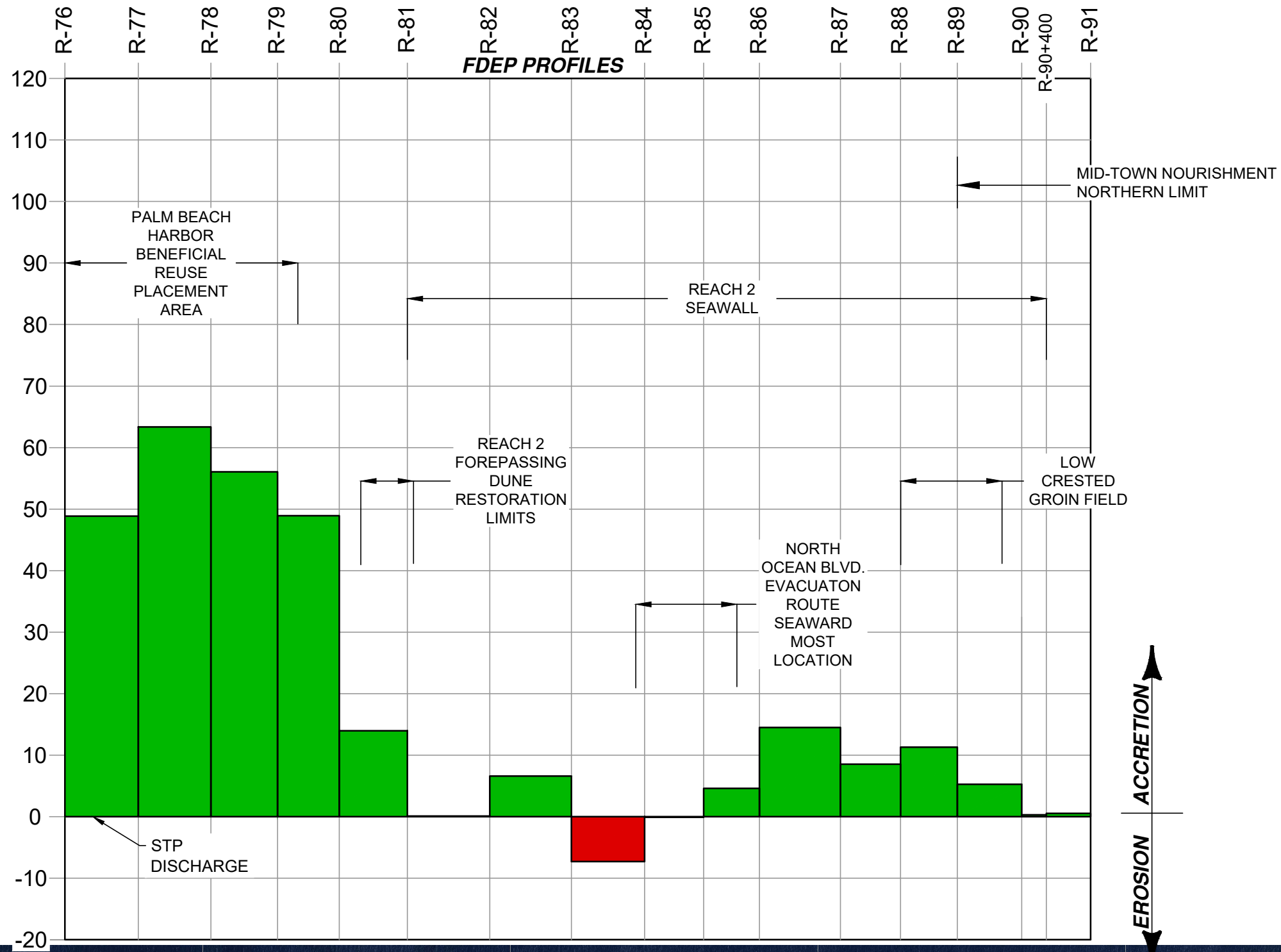
Appendix B
July 2021 to July 2022 Volumetric Change
(Reach 1 thru Reach 8)

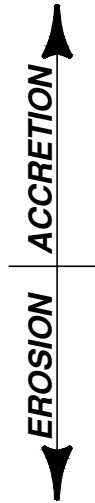
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DATE: 1/21/22
DRAWN BY: JMM
CHECKED BY: JMM
APPROVED BY: JMM



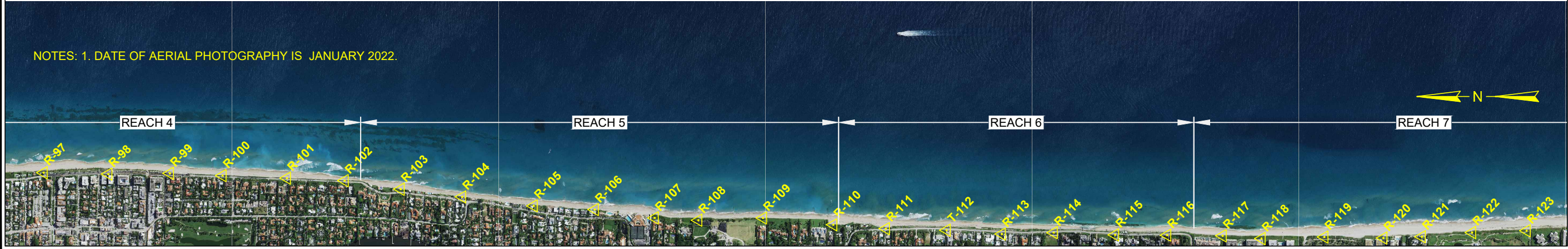
JULY 2021 - JULY 2022 VOLUME CHANGES ABOVE -26.2' NAVD

(REPRESENTS THOUSANDS)
(CY)

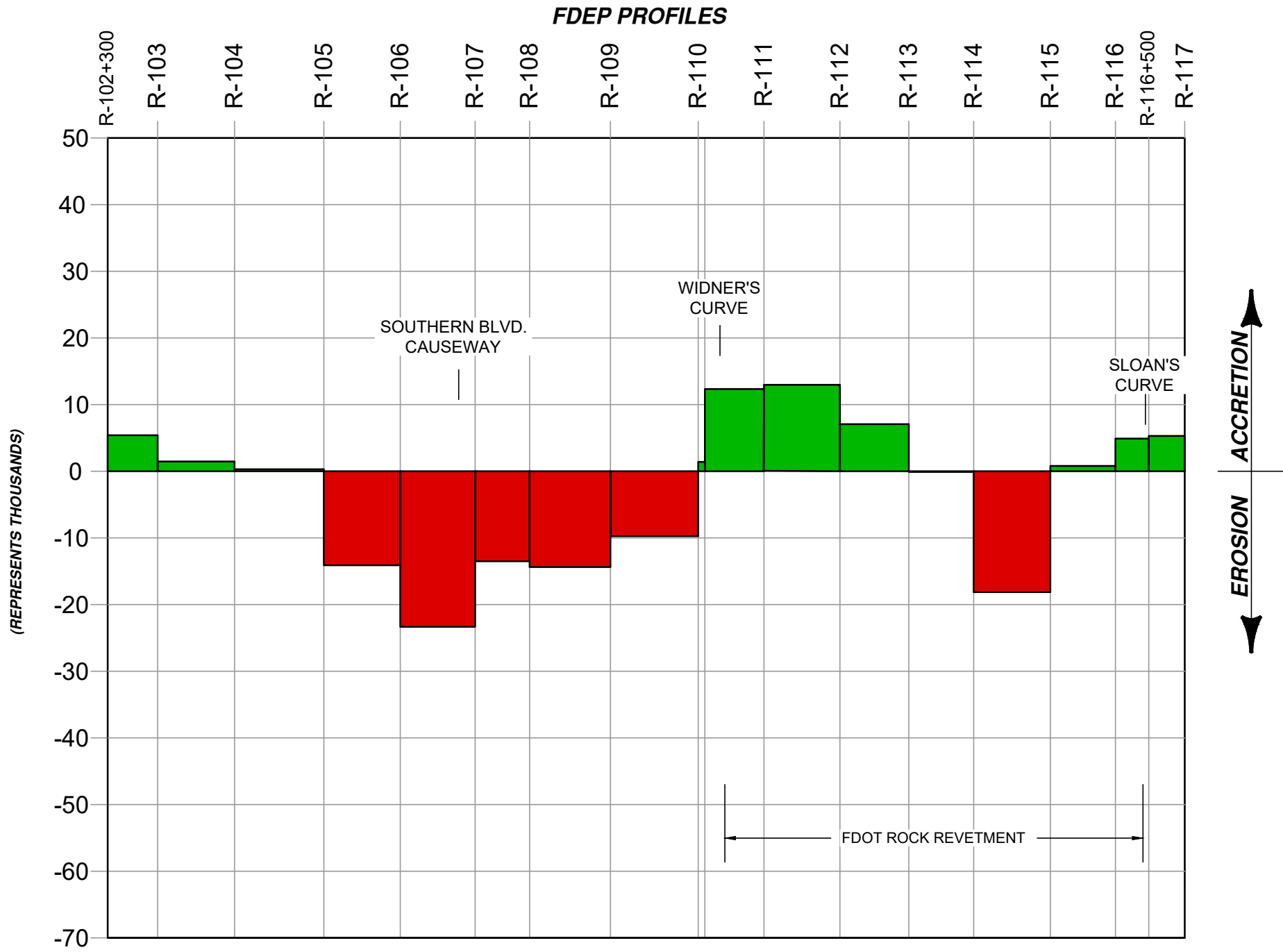




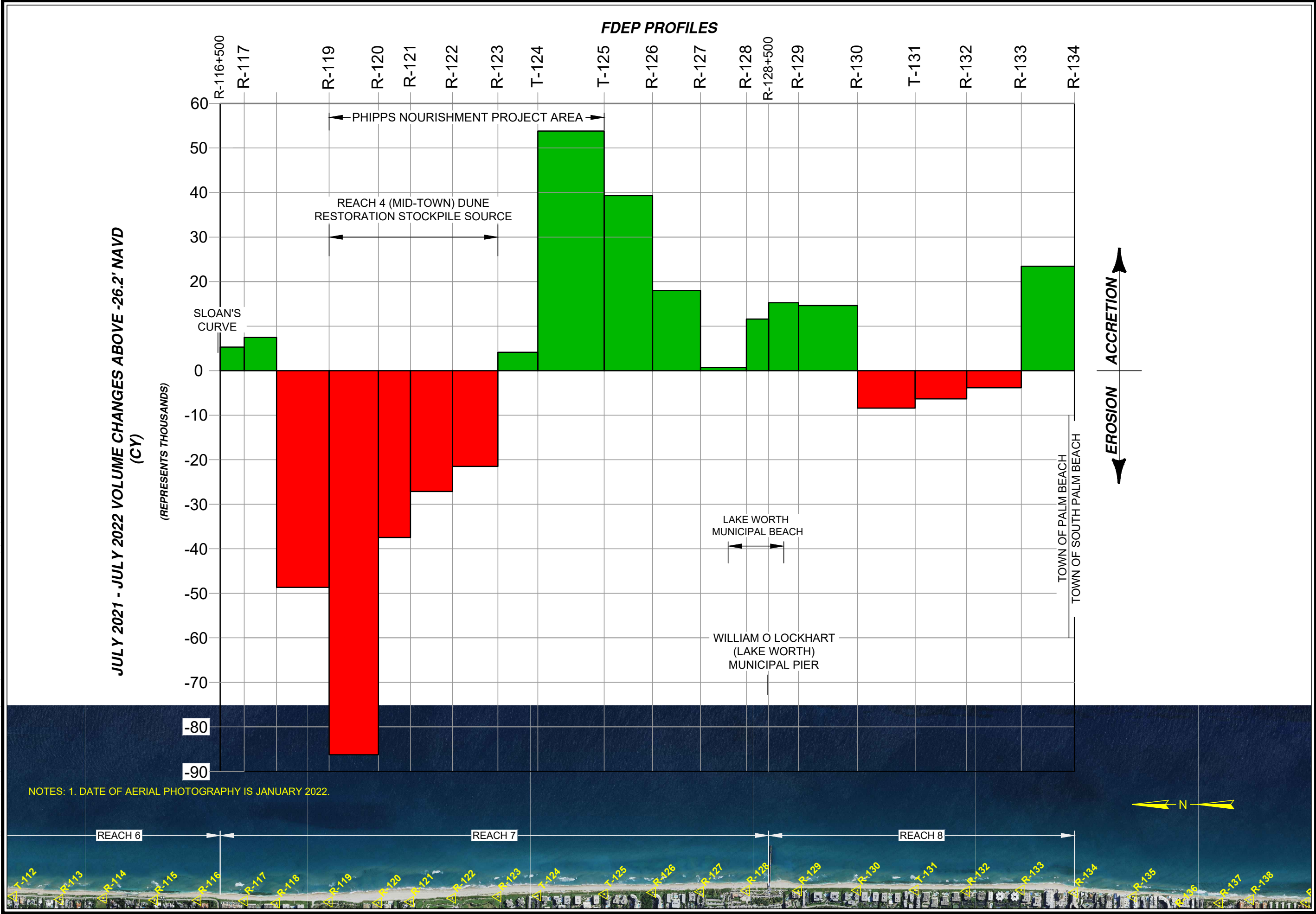
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JULY 2021 - JULY 2022 VOLUME CHANGES ABOVE -26.2' NAVD
(CY)



ROBERTA NEAL LOCATION: \\WESTPALM-01\GROUPS\WESTPALMBEACH\SHARES\DRAWINGS\PROJECTS\22-3856 TOPB TOWNWIDE MONITORING\FIGURES\2022\1-21-22 VOL CHANGES_57-8.DWG

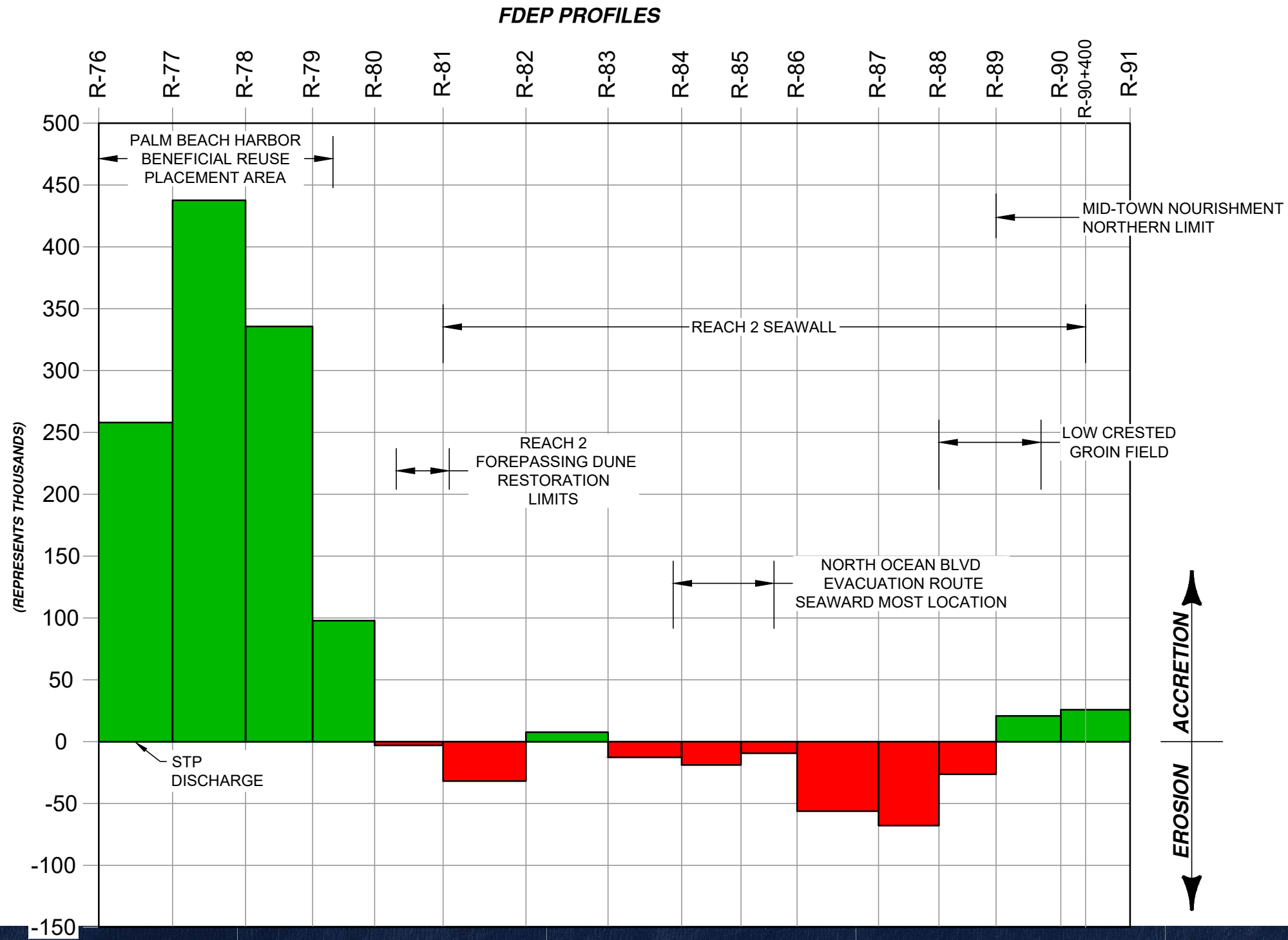


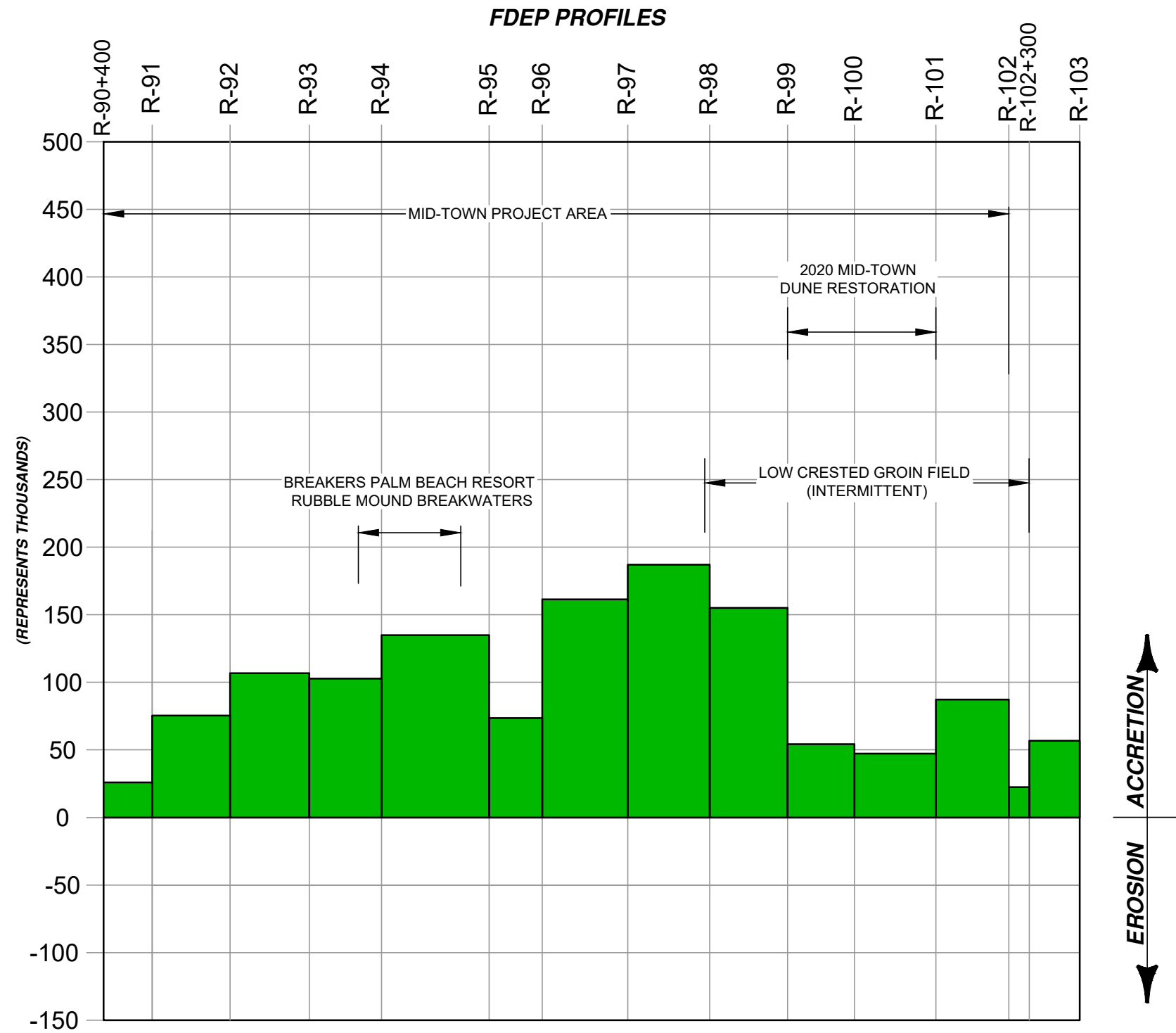
Appendix C
August 1990 to July 2022 Volumetric Change
(Reach 1 thru Reach 8)

LOCATION: \\WESTPALM-01\GROUPS\WESTPALMBEACH_SHARES\DRAWINGS\PROJECTS\22-3856 TOPB TOWNWIDE MONITORING\FIGURES\2022\1-30-22 VOL CHANGES_F1-2.DWG
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DRAWN BY: J. B. NEAL
CHECKED BY: R. B. NEAL

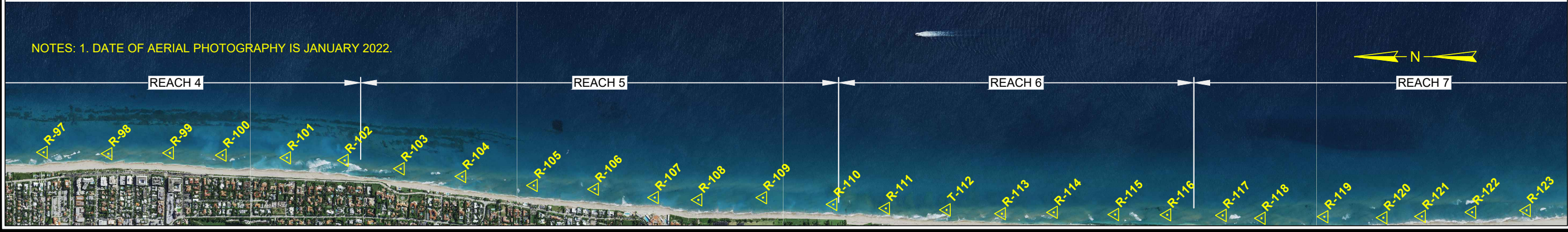


AUG. 1990 - JULY 2022 VOLUME CHANGES ABOVE -26.2' NAVD
(CY)

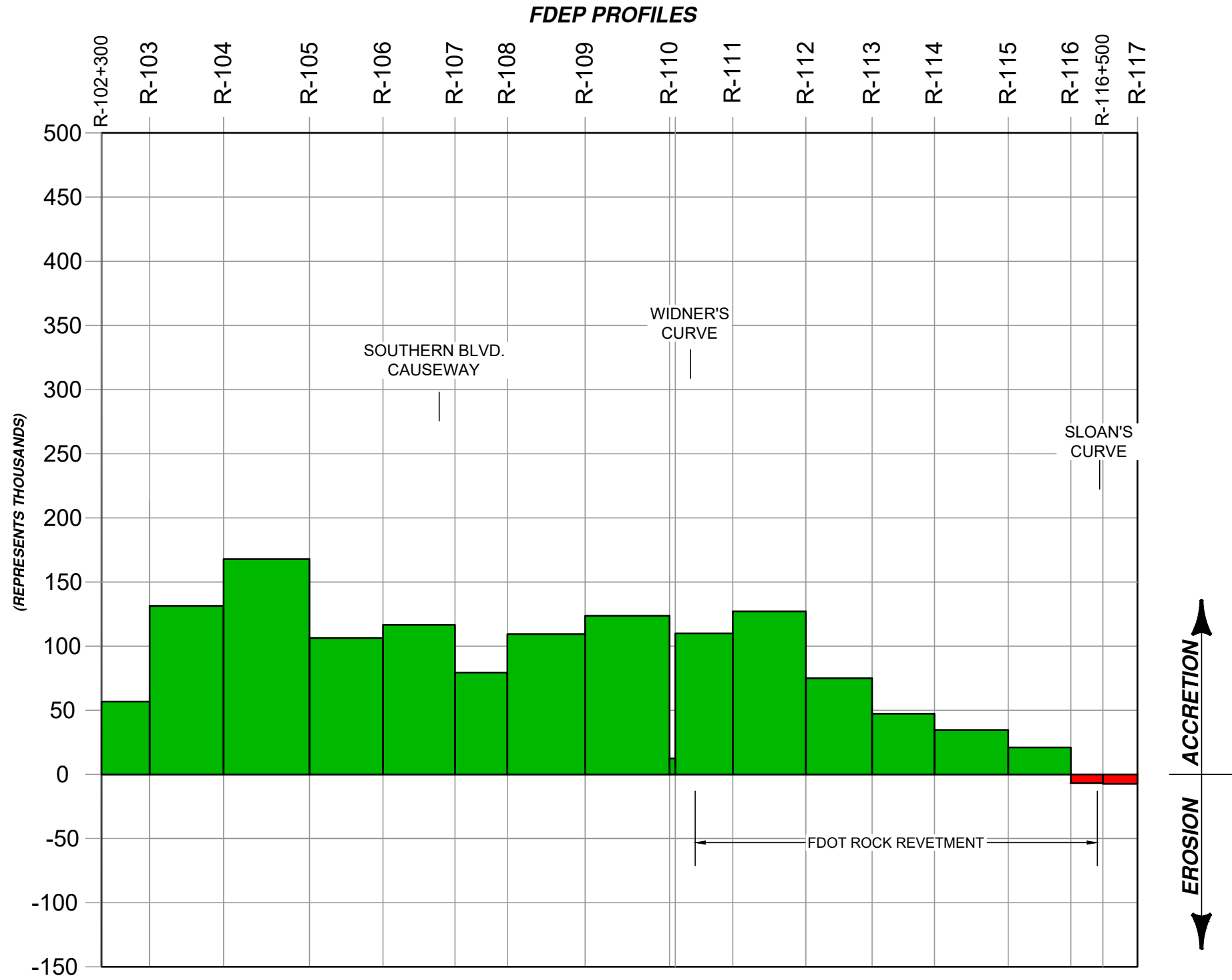




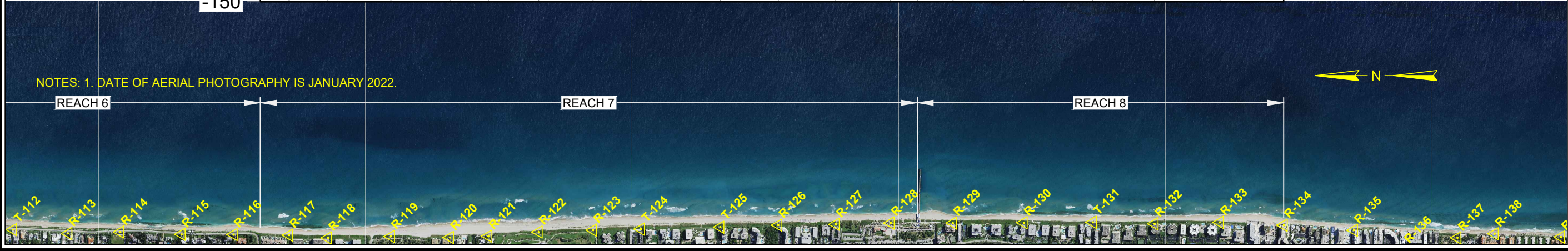
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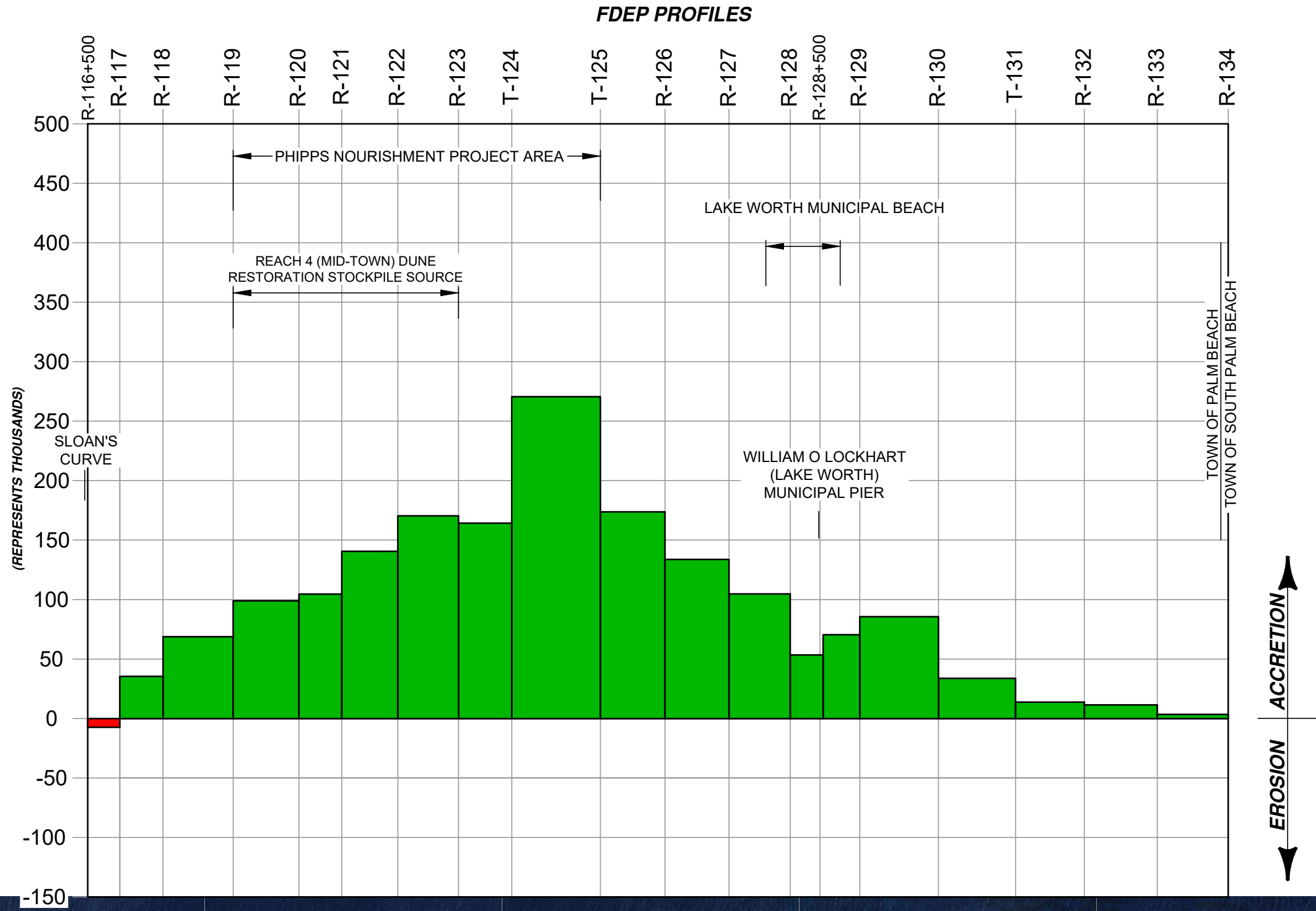
AUG. 1990 - JULY 2021 VOLUME CHANGES ABOVE -26.2' NAVD
(CY)



ROBERT M. NEAL LOCATION: \\WESTPALM-01\GROUPS\WESTPALMBEACH\SHARES\DRAWINGS\PROJECTS\22-3856 TOPB TOWNWIDE MONITORING\FIGURES\2022\1-30-22 VOL CHANGES_57-8.DWG



**AUG. 1990 - JULY 2022 VOLUME CHANGES ABOVE -26.2' NAVD
(CY)**



TOWN OF PALM BEACH

Information for Shore Protection Board Meeting on: January 27, 2023

TO: Shore Protection Board

FROM: Kirk W. Blouin, Town Manager

VIA: Robert Weber, Coastal Program Manager

RE: Coastal Projects Update
Item XI.

DATE: January 20, 2023

STAFF RECOMMENDATION

Town staff requests the Shore Protection Board (SPB) review the attached information and provide any additional input deemed necessary.

GENERAL INFORMATION

Listed below is a brief update of the ongoing activities for the Coastal Management Program. Town staff can provide more details of each item during the SPB meeting.

Lake Worth Inlet Maintenance Dredging

- The U.S. Army Corps of Engineers held a pre-construction meeting with the Town, state agencies, and their contractor on January 19, 2023.
- The Corps expects their contractor to start mobilizing to the beach, via Angler Avenue, next week and anticipates dredging to start the second week in February and be complete by April 30, 2023.
- The anticipated volume is on the order of 300,000 cubic yards of sand.
- Heavy equipment will be placed on the beach utilizing the beach access at Angler Avenue.

2023/2024 Phipps Ocean Park Beach Nourishment

- The next planned project in Reach 7 is the Phipps Ocean Park Beach Nourishment scheduled after the next sea turtle nesting season sometime between November 1, 2023 and April 30, 2024.
- All easements are valid for this area.
- Regulatory approvals and the procurement process will be done in the Spring/ Summer of 2023.

2023/2024 Dune Restoration

- The stockpile of sand on the beach near the Par 3 Golf Course was displaced from the 2022 hurricane season. The stockpile on the berm will be replaced with the upcoming Phipps Ocean Park beach nourishment.
- Should the stockpile be timely placed, dune restoration in Reaches 7, 8, and 9 could utilize that sand before April 30, 2024.

cc: H. Paul Brazil, P.E., Director of Public Works
Patricia Strayer, P.E., Town Engineer

TOWN OF PALM BEACH

Information for Shore Protection Board Meeting on: January 27, 2023

TO: Shore Protection Board

FROM: Kirk W. Blouin, Town Manager

VIA: Robert Weber, Coastal Program Manager

RE: Education Series Videos and Next Steps
Item XII.

DATE: January 20, 2023

STAFF RECOMMENDATION

Town staff requests the Shore Protection Board (SPB) review the attached information and provide any additional input deemed necessary.

GENERAL INFORMATION

During the November 2, 2022 SPB meeting, the board viewed a pre-screening of the four (4) public education media (videos) related to these specific aspects of the Town's Coastal Management Program:

- Beach Nourishment – overview of successes and ongoing importance.
- Coastal Hard Structure Technology – review the groin rehabilitation plan and encourage residents to get involved.
- Reach 8 – provide a history of the work completed with a look forward to implementing the long-term solution.
- Easements – describe temporary and perpetual easements and why they are needed for coastal projects.

The SPB provided feedback for each video to both Town staff and our consultant. Minor revisions and edits have been made to the videos. The revised videos will be presented to the Shore Protection Board on January 27, 2023. Following a SPB recommendation, the videos can be presented to the Town Council at an upcoming meeting for final publication and distribution to the public.

Town consultants will be available to discuss potential next steps to further improve communication beyond the four videos mentioned above.

cc: H. Paul Brazil, P.E., Director of Public Works
Patricia Strayer, P.E., Town Engineer
Thomas Pierro, P.E., CPE

TOWN OF PALM BEACH

Information for Shore Protection Board Meeting on: January 27, 2023

TO: Shore Protection Board

FROM: Kirk W. Blouin, Town Manager

VIA: Robert Weber, Coastal Program Manager

RE: Establish Shore Protection Board Goals for 2023
Item XIII.

DATE: January 20, 2023

STAFF RECOMMENDATION

Town staff requests that the Shore Protection Board (SPB) review the attached information and determine goals for 2023.

GENERAL INFORMATION

Attached are the 2022 Goals established by the Shore Protection Board. The focus of the goals and objectives was to improve communication through public relations and to improve education of both the SPB members and the public. The 2022 goals were achieved with development of the four (4) education series videos. Should the SPB decide to continue improving communication and education in 2023 with more videos or other media, additional topics would need to be determined.

Attachment

cc: H. Paul Brazil, P.E., Director of Public Works
Patricia Strayer, P.E., Town Engineer

SHORE PROTECTION BOARD

GOALS AND OBJECTIVES FOR 2022

Section 2-636 (f), Town of Palm Beach Code of Ordinances: The Shore Protection Board shall act in an advisory capacity to the Town Council and shall make recommendations to the Town Council on all matters relating to shore protection in the Town including, but not limited to, issues related to the beaches and specific resiliency matters along the Town's Lake Worth Lagoon shoreline as directed by Town Council. In addressing these matters, the scope of the Shore Protection Board's duties shall include long term planning, public education, and assisting Town staff in applicable communication to the public.

[Pursuant to Ordinance No. 006-2022 - First Reading April 12, 2022; Second Reading May 10, 2022]

2022 SHORE PROTECTION BOARD STATED PURPOSE AND COMMITMENT

The purpose of the Shore Protection Board is to share with the public what we perceive to be the important coastal issues facing our Town and commit to making recommendations to the Town Council and Staff on behalf of the community.

GOALS AND OBJECTIVES

1. Improve communication through public relations

- *Develop better procedures for communications with the Town Council, Town Staff, and with board members in compliance with State law*
- *Enhance communications with the community at-large with respect to shore protection matters*

2. Improve education of both the SPB members and the public

- *Present historical coastal management actions taken and their positive influence on the Town's shoreline*
- *Share successes of the program since inception of the Shore Protection Board in 2008*
- *Identify current coastal management opportunities for the public to participate*

DISCUSSION TOPICS FOR FURTHER CONSIDERATION (LISTED IN NO PARTICULAR ORDER)

- Reach 8
- Reach 3
- Coastal Structure Technology
- Temporary and Perpetual Construction Easements