

Shore Protection Board Meeting

February 27, 2014

Town Manager Elwell's Comments Under Item # XI

- Beach nourishment occurred in Palm Beach as far back as the 1940s.
- The Town's modern coastal management program began in the mid-1980s.
(Thanksgiving Storm of 1984 ...
Mercedes came ashore in north end ...
A1A cut off between Sloan's + Widener's Curve ...
FDOT constructed huge revetment in "Reach 6".)
- 1986 ... Original CCMP.
- 1987 ... Mid-Town Seawall Revetment.

Ongoing debate in community
re: scope, methods, and funding
of the Coastal Protection Program.

- Late 1980s ... Permitting + Federal Funding Process
for first Mid-Town Beach Restoration.
- Early 1990s ... Experimental PEP Reef at Mid-Town
and
Town/County litigation re: Sand Transfer Plant.
- 1995 ... PEP Reef removed,
Sand Transfer Plant restored,
and
Mid-Town Beach Restoration constructed
(Barton to Hammon with
approximately 880,000 cy and 11 groins.)
- Also in 1995 ... TC appointed a nine-member SPB.
- 1997-1998 ... As recommended by the SPB,
the CCMP was updated.
- 1999 ... Updated CCMP adopted by Town Council.
Original SPB “sunsetted”.

- Also in 2006 ... Town renourished Mid-Town
as a hurricane recovery project
with approximately 900,000 cy.
- 2007 ... NOB Seawall Revetment (interim protection).
- Also in 2007 ... sub-TS Andrea caused erosion,
especially in Reach 8 south of LW Pier.
- February 2008 ... FDEP's "Intent to Issue" a permit
for full scale beach restoration
in Reach 8.
- March 2008 ... Petition filed to stop "Intent to Issue".
- August to October 2008 ... Reach 8 Admin Hearing.

- 2000 ... Town Council approved a 10-year plan for coastal protection. and bonds were issued as partial funding for the program.
- 2003 ... the Mid-Town project was expanded and renourished (Wells to Banyan) with approximately 1.2 million cy.
- 2004 ... Hurricanes Frances and Jeanne caused severe erosion in Palm Beach, especially in Reaches 7 and 8. (Town placed approximately 100,000 cy between Sloan's Curve and La Bonne Vie.)
- 2005 ... Hurricane Wilma caused further erosion.
- 2006 ... Town constructed the Reach 7 nourishment (Phipps Park to 2774 Condominium). Dunes were rebuilt in Reach 8. Total: approximately 1.1 million cy.

(March 2009 ... Admin Law Judge's Recommended Order for FDEP to deny the Reach 8 permit.

July 2009 ... FDEP Secretary Sole issued a Final Order denying the permit.

Landmark Impact ... draft permit, petition, hearing, recommended order, and final order created more stringent standards for future permits Statewide.)

- **Meanwhile ... August 2008 ... TS Fay caused damage to nourished beaches at Mid-Town and Reach 7. (In 2009, FEMA approved funding assistance for recovery projects.)**
- **December 2008 ... TC created the current SPB.**
- **Winter 2010/2011 ...
partial renourishment and dune restoration
at Mid-Town and in Reaches 7 + 8.
Total: Approximately 133,000 cy.**

- 2009-2011 ... SPB conducted extensive research,
then prepared and refined a long-term plan
for coastal protection in Palm Beach.
- 2012 ... SPB submitted a revised long-term plan.
TC retained Woods Hole Group
to perform a peer review.
- June 2013 ...
WHG provided final recommendations and
TC approved an \$85 million 10-year plan.
- October 2013 ... TC approved funding the plan
with ad valorem taxes.

LOCATION: \\P88007201\GROUPS\WETPALMBEACH\CHARLES\DRAWINGS\PROJECTS\12-2635_T09B_MONITORING\WETPALMBEACH\W2409E.CHANGES.B_3-4.DWG

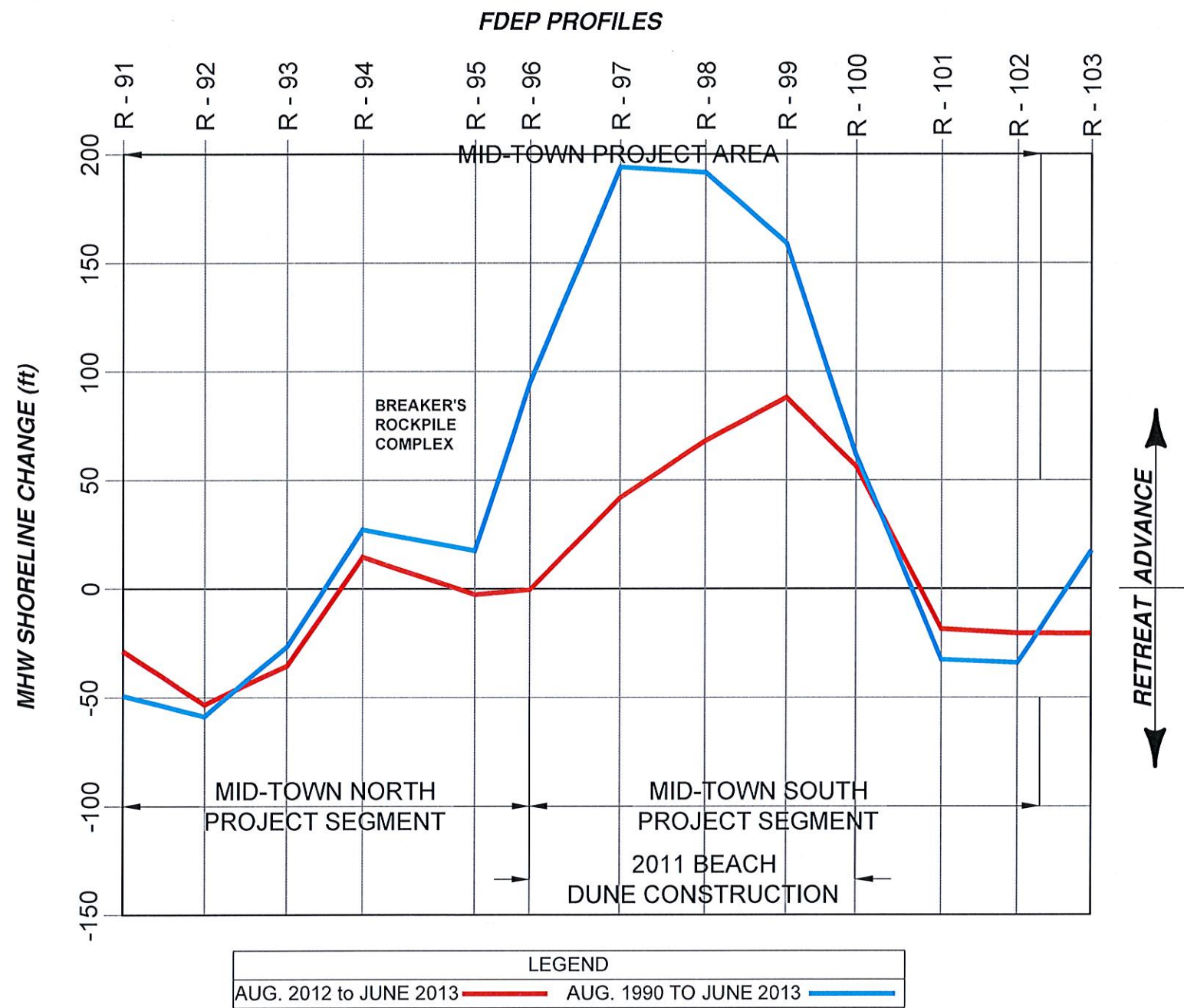
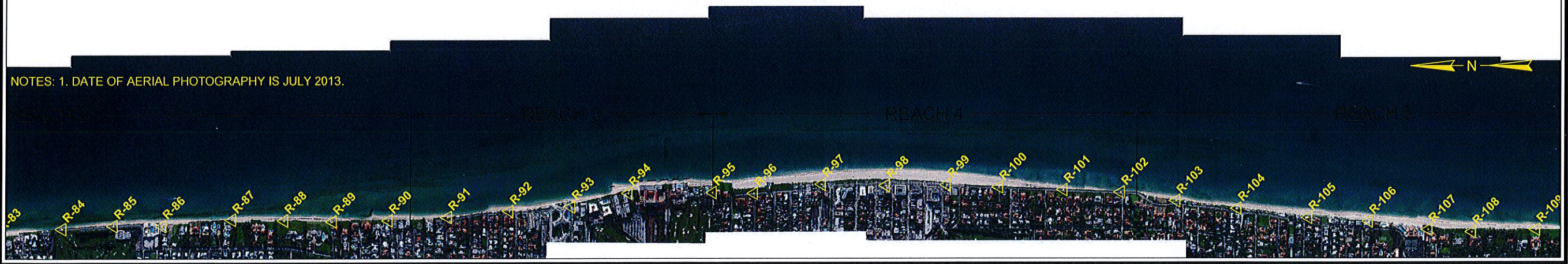


Figure 1b
Shoreline Changes

LOCATION: \\P6800F201\GROUPS\WESTPALM\BEACH_CHANGES\DRAWINGS\PROJECTS\12-2535 TOPB MONITORING\11TOWN WIDE\1-WP2008 CHANGES_R 5-6.DWG
JEANIN

NOTES: 1. DATE OF AERIAL PHOTOGRAPHY IS JUNE 2013.

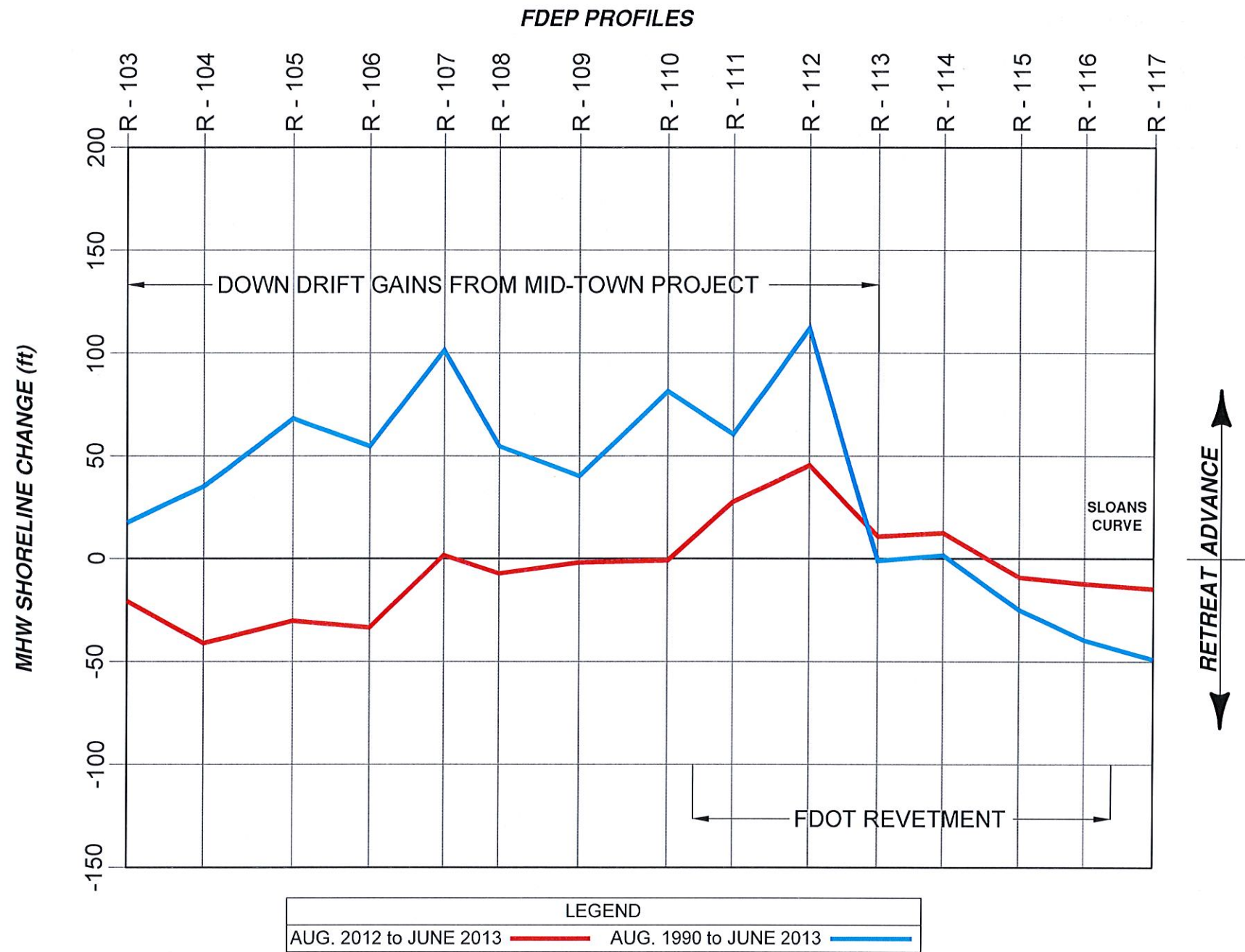
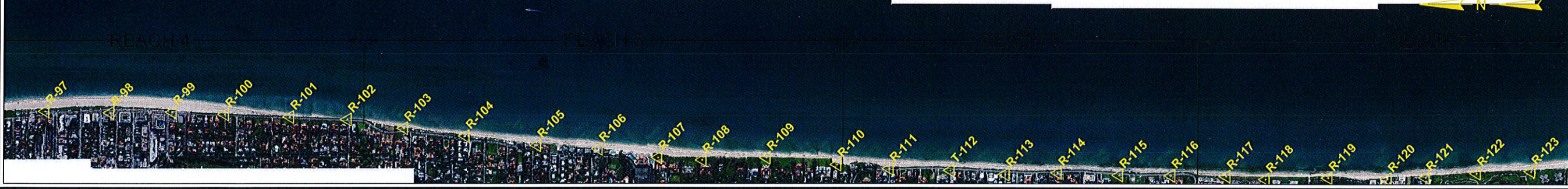


Figure 1c
Shoreline Changes

LOCATION: \PREDP2001\GROUPS\WESTPALMBEACH\SHARES\DRAWINGS\PROJECTS\12-2535 TOPS MONITORING\A\TOWN WIDE\1-WC\SHORE CHANGES.F 7-8.DWG

NOTES: 1. DATE OF AERIAL PHOTOGRAPHY IS JUNE 2013.

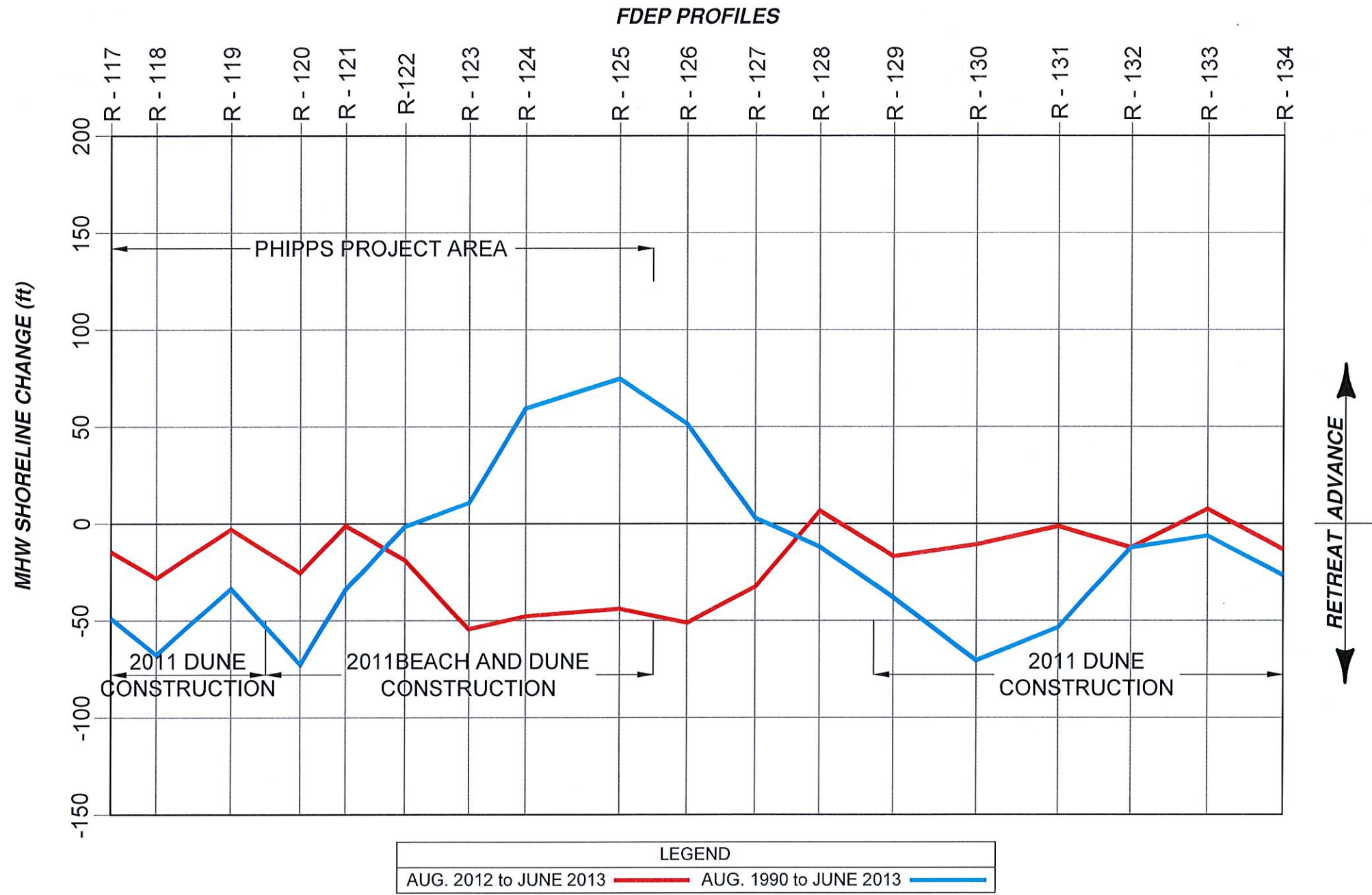
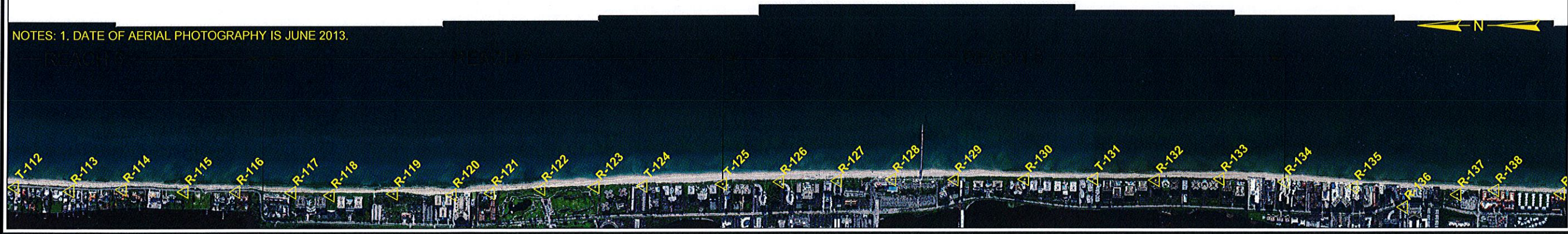
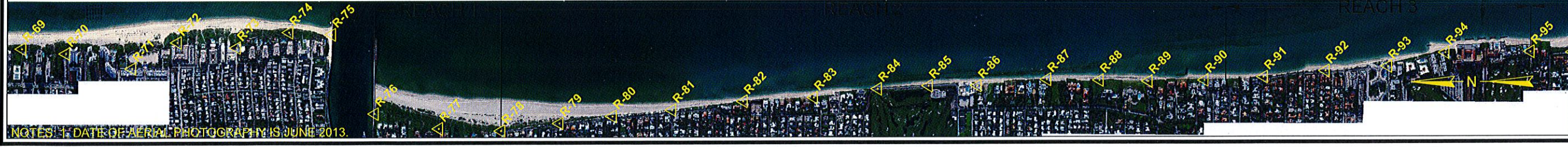


Figure 1d
Shoreline Changes



DEC. 2012-JULY 2013 VOLUME CHANGES ABOVE -26.2' NAVD
(CY PER LINEAL FEET)

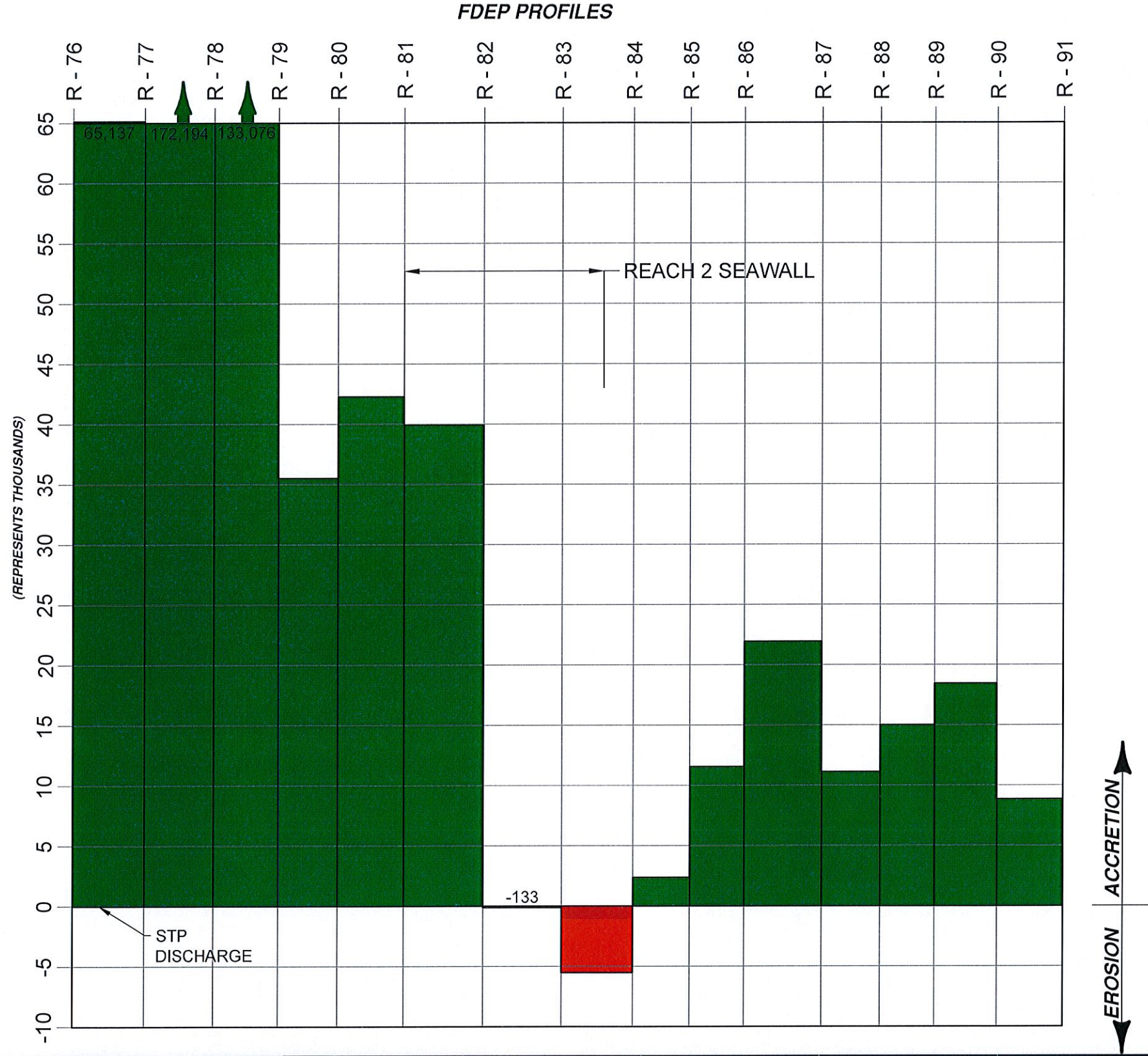


Figure 2a
Dec. 2012-July 2013 Volume Changes

LOCATION: \\P:\BID\2011\GROUPS\WEST\ALBANY\SHARPS\DRAWING\PROJECTS\12-2035 TOPP MONITORING\TOWN MEET_12-13 VOL CHANGES_R3-4.DWG

NOTES: 1. DATE OF AERIAL PHOTOGRAPHY IS JUNE 2013.

REACH 2

REACH 3

REACH 4

REACH 5



DEC. 2012-JULY 2013 VOLUME CHANGES ABOVE -26.2' NAVD
(CY PER LINEAL FEET)

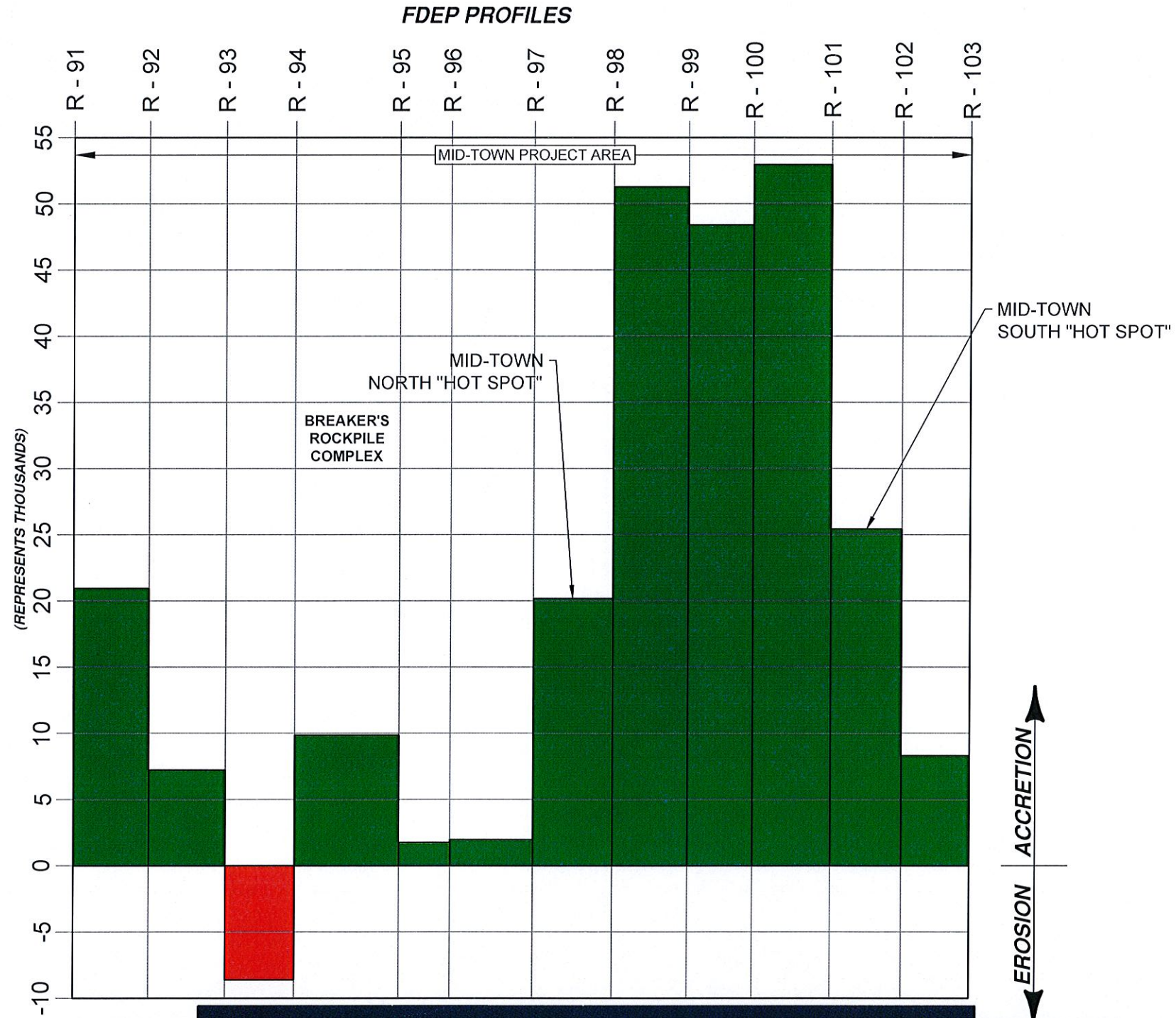
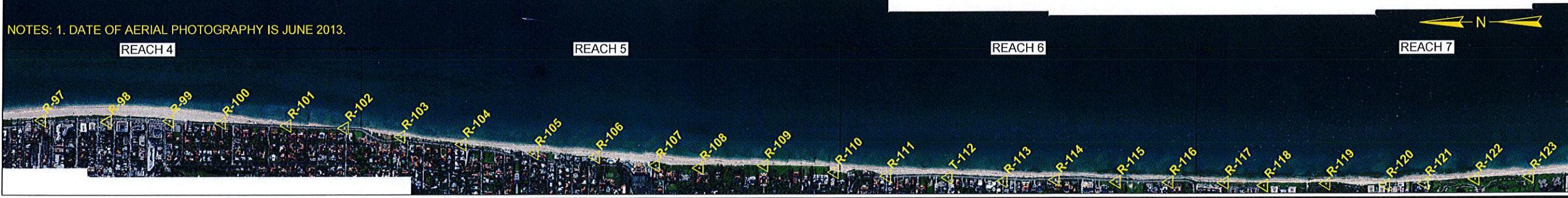


Figure 2b
Dec. 2012-July 2013 Volume Changes

NOTES: 1. DATE OF AERIAL PHOTOGRAPHY IS JUNE 2013.



DEC. 2012-JULY 2013 VOLUME CHANGES ABOVE -26.2' NAVD
(CY PER LINEAL FEET)

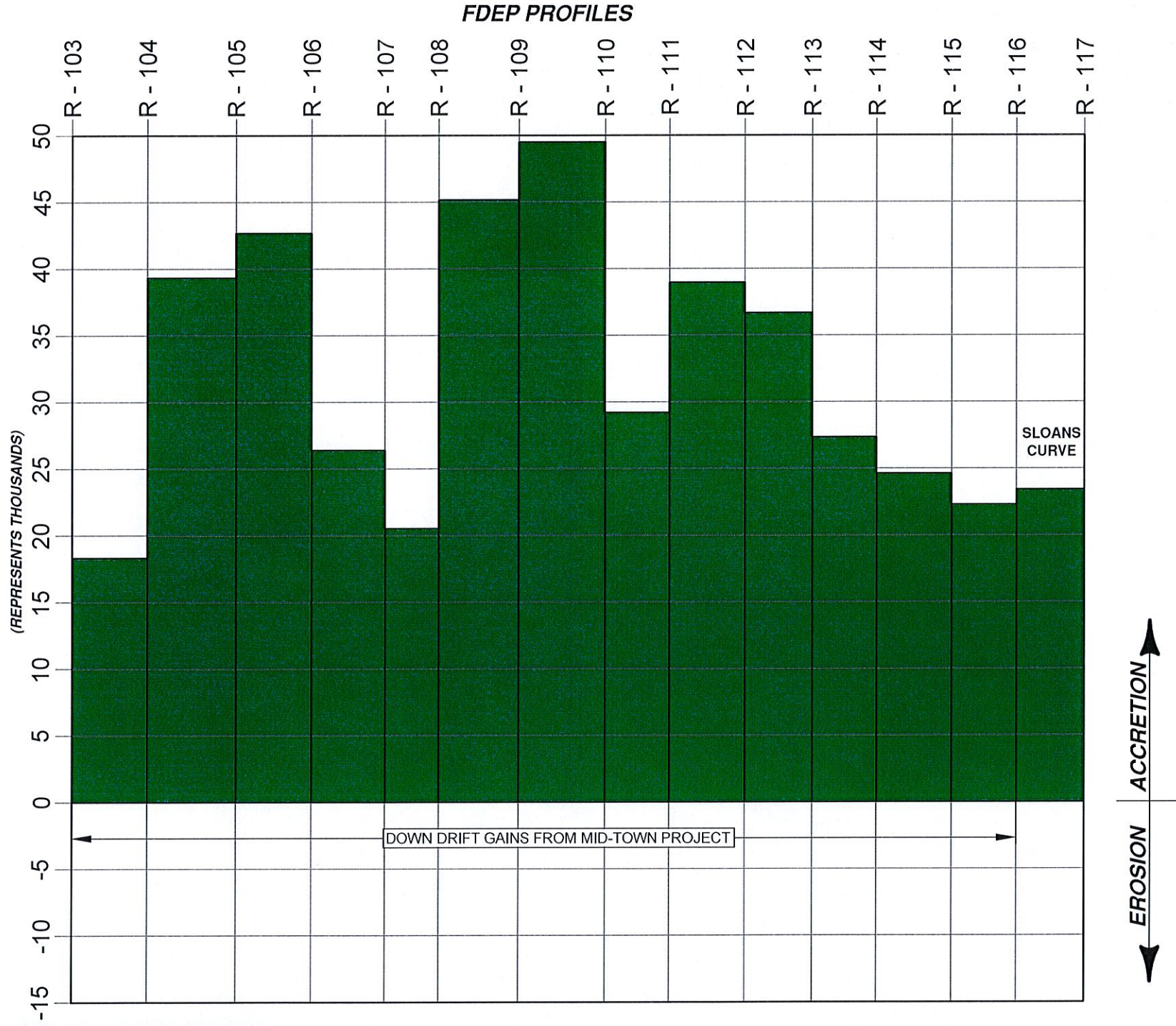


Figure 2c
Dec. 2012-July 2013 Volume Changes

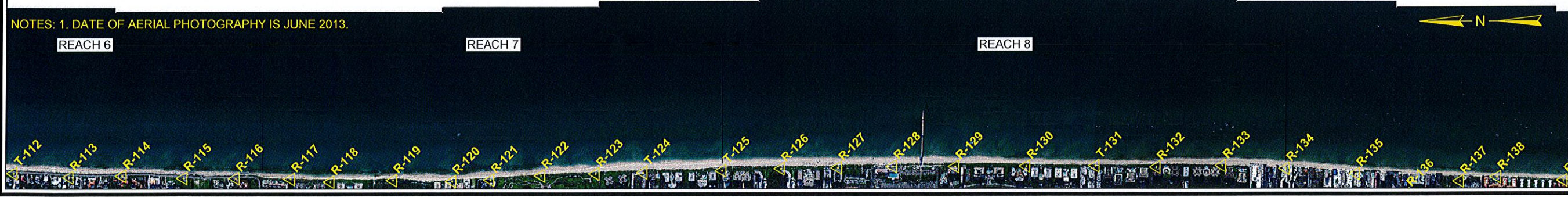
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NOTES: 1. DATE OF AERIAL PHOTOGRAPHY IS JUNE 2013.

REACH 6

REACH 7

REACH 8



DEC. 2012-JULY 2013 VOLUME CHANGES ABOVE -26.2' NAVD
(CY PER LINEAL FEET)

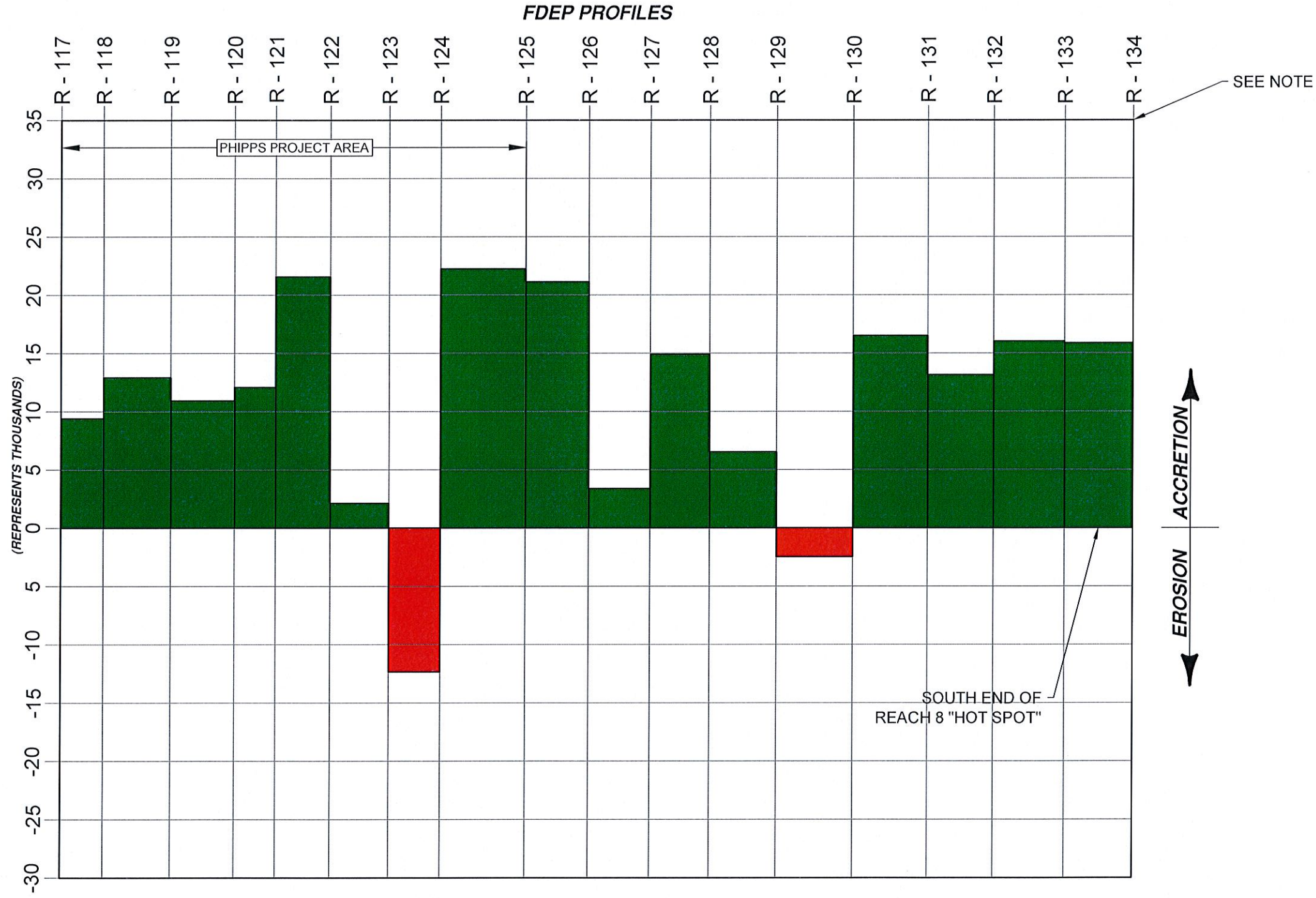
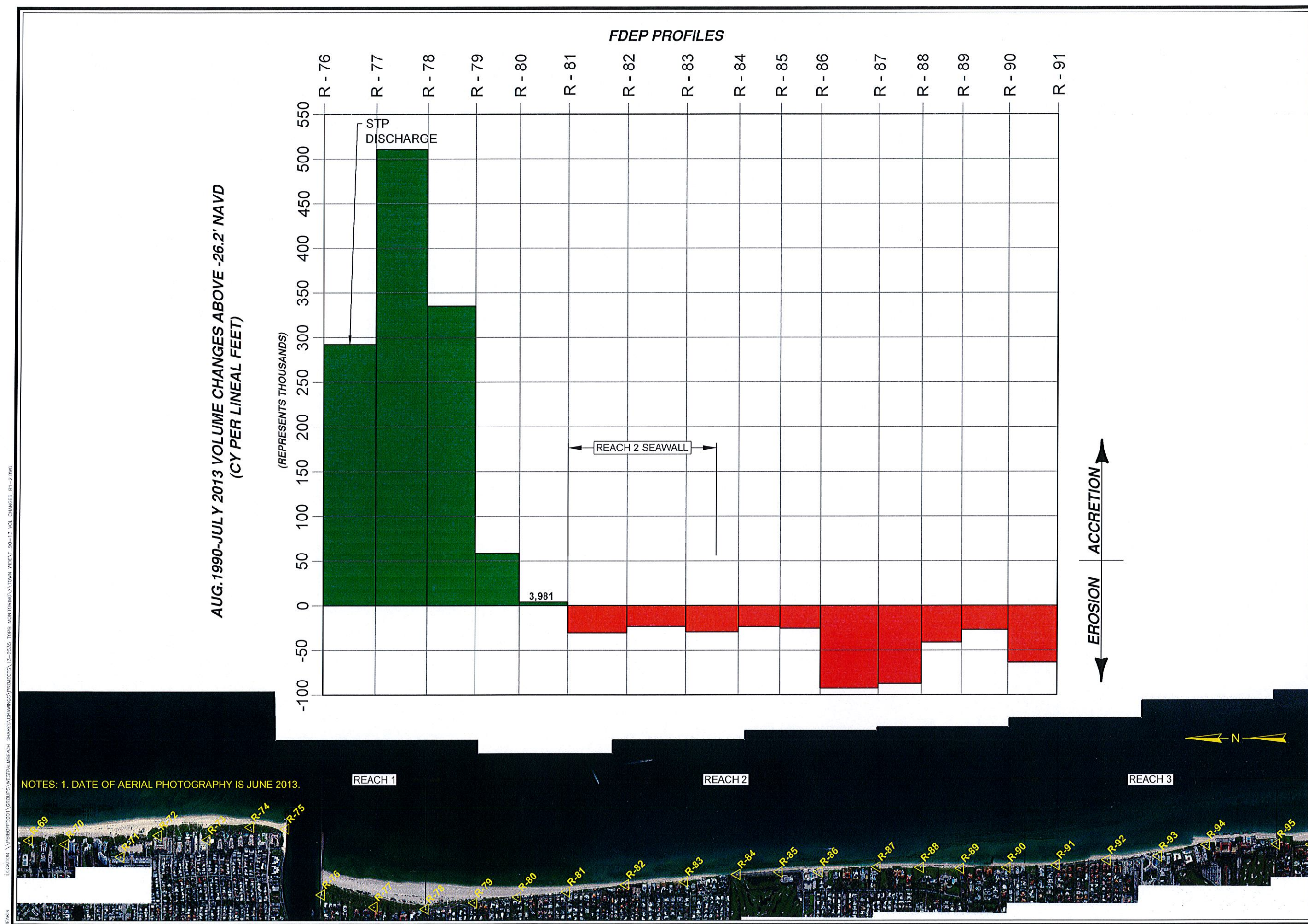


Figure 2d
Dec. 2012-July 2013 Volume Changes



LOCATION: \\P:\BID\2013\GROUPS\WESTPAINBEACH_CHARTERS\DRAWING\PROJECTS\12-2535_TOPS_MONITORING\A\TOWN_WIDE\12-2535_13_VOL_CHANGES_R3-4.DWG

NOTES: 1. DATE OF AERIAL PHOTOGRAPHY IS JUNE 2013.

REACH 2

REACH 3

REACH 4

REACH 5



AUG. 1990-JULY 2013 VOLUME CHANGES ABOVE -26.2' NAVD
(CY PER LINEAL FEET)

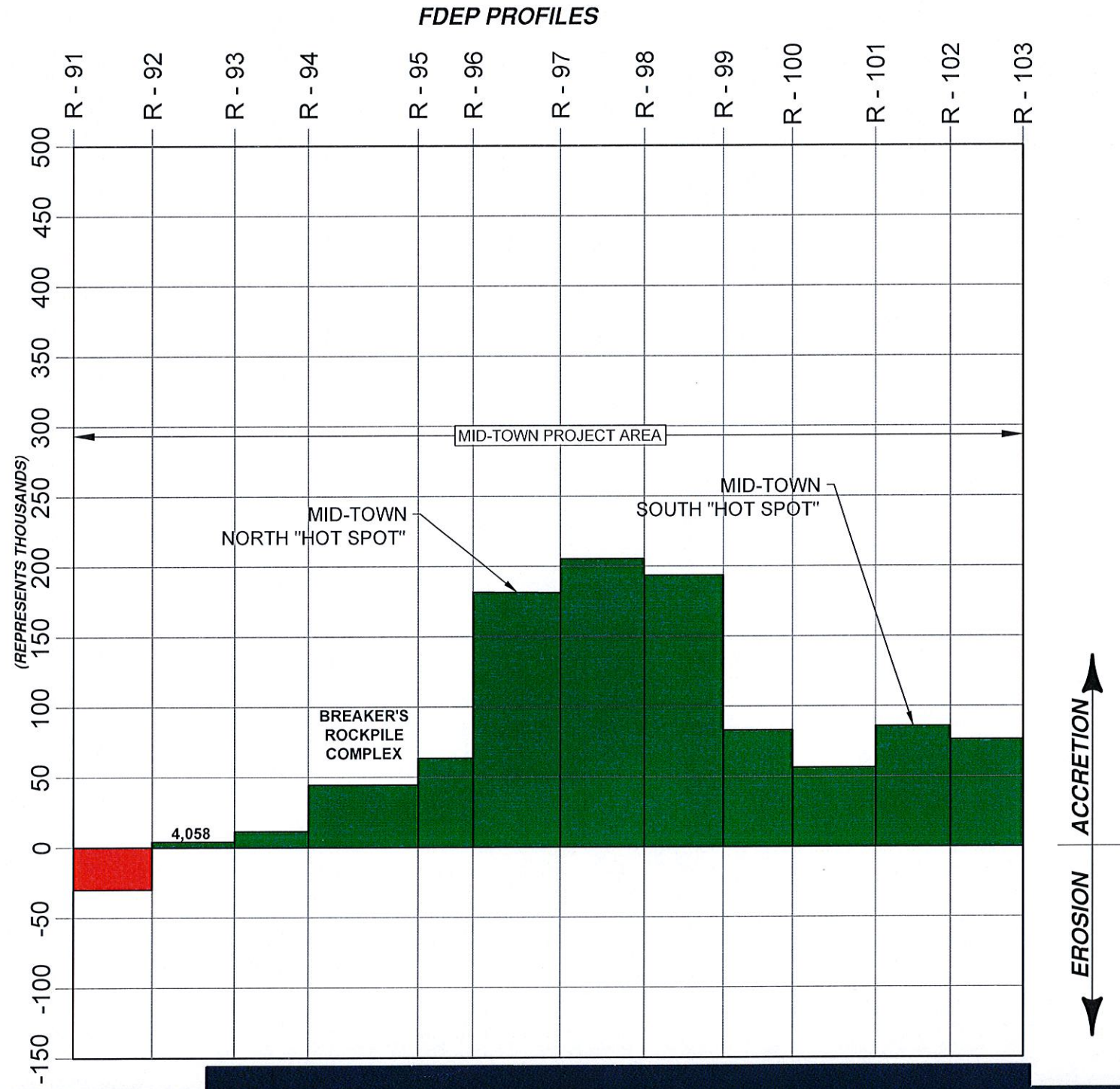
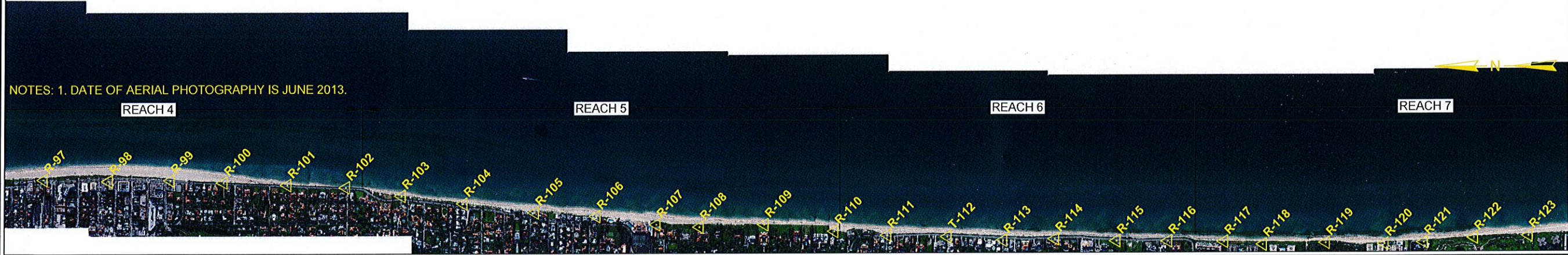


Figure 3b
Aug. 1990-July 2013 Volume Changes



AUG. 1990-JULY 2013 VOLUME CHANGES ABOVE -26.2' NAVD
(CY PER LINEAL FEET)

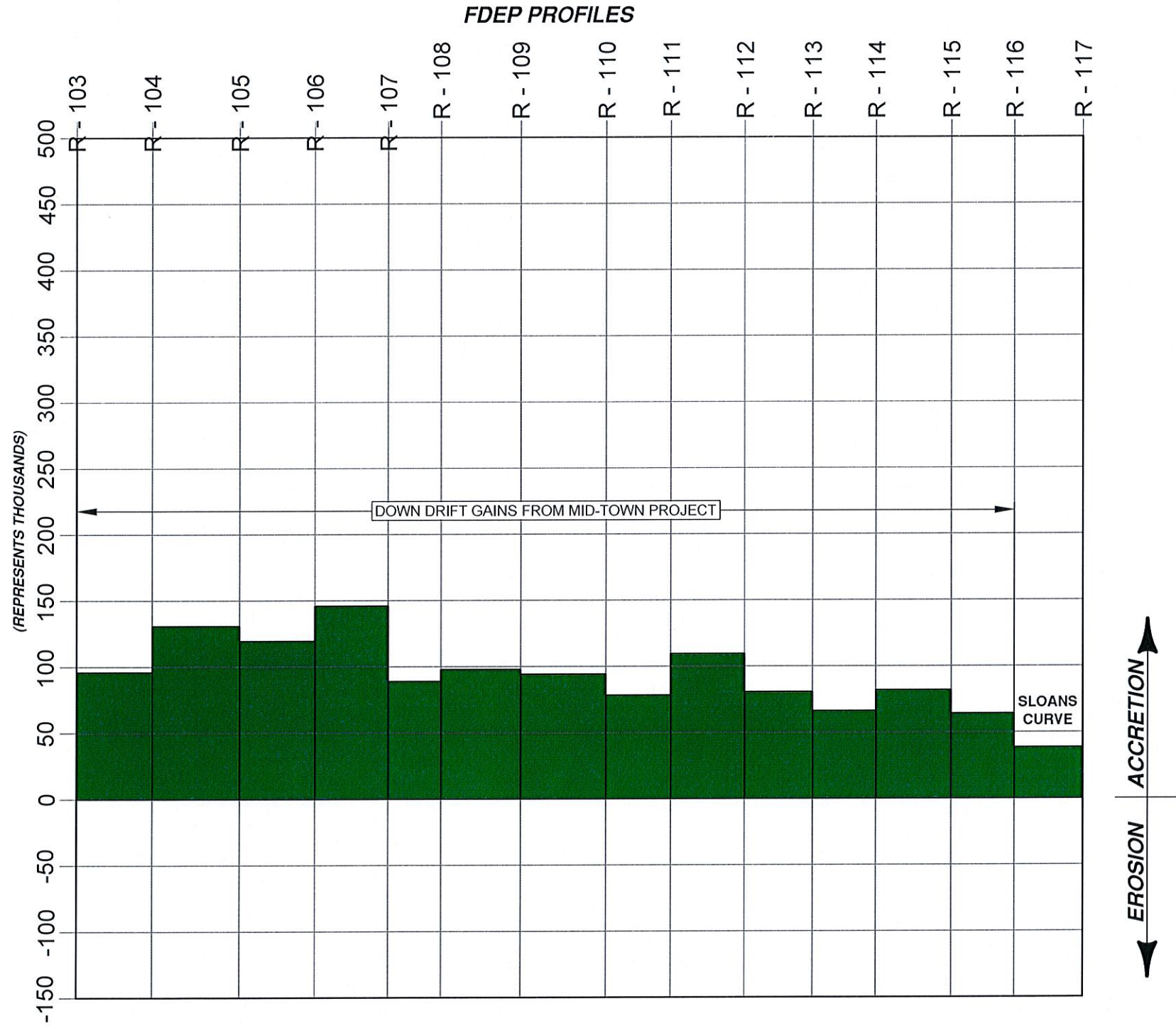


Figure 3c
Aug. 1990-July 2013 Volume Changes

LOCATION: \\PHIPPS\PROJECTS\DRAWINGS\PROJECTS\12-2535 TOPG MONITORING\XTOWN WIDEY 50-13 VOL CHANGES.R7-DWG

NOTES: 1. DATE OF AERIAL PHOTOGRAPHY IS JUNE 2013.

REACH 6

REACH 7

REACH 8

AUG. 1990-JULY 2013 VOLUME CHANGES ABOVE -26.2' NAVD
(CY PER LINEAL FEET)

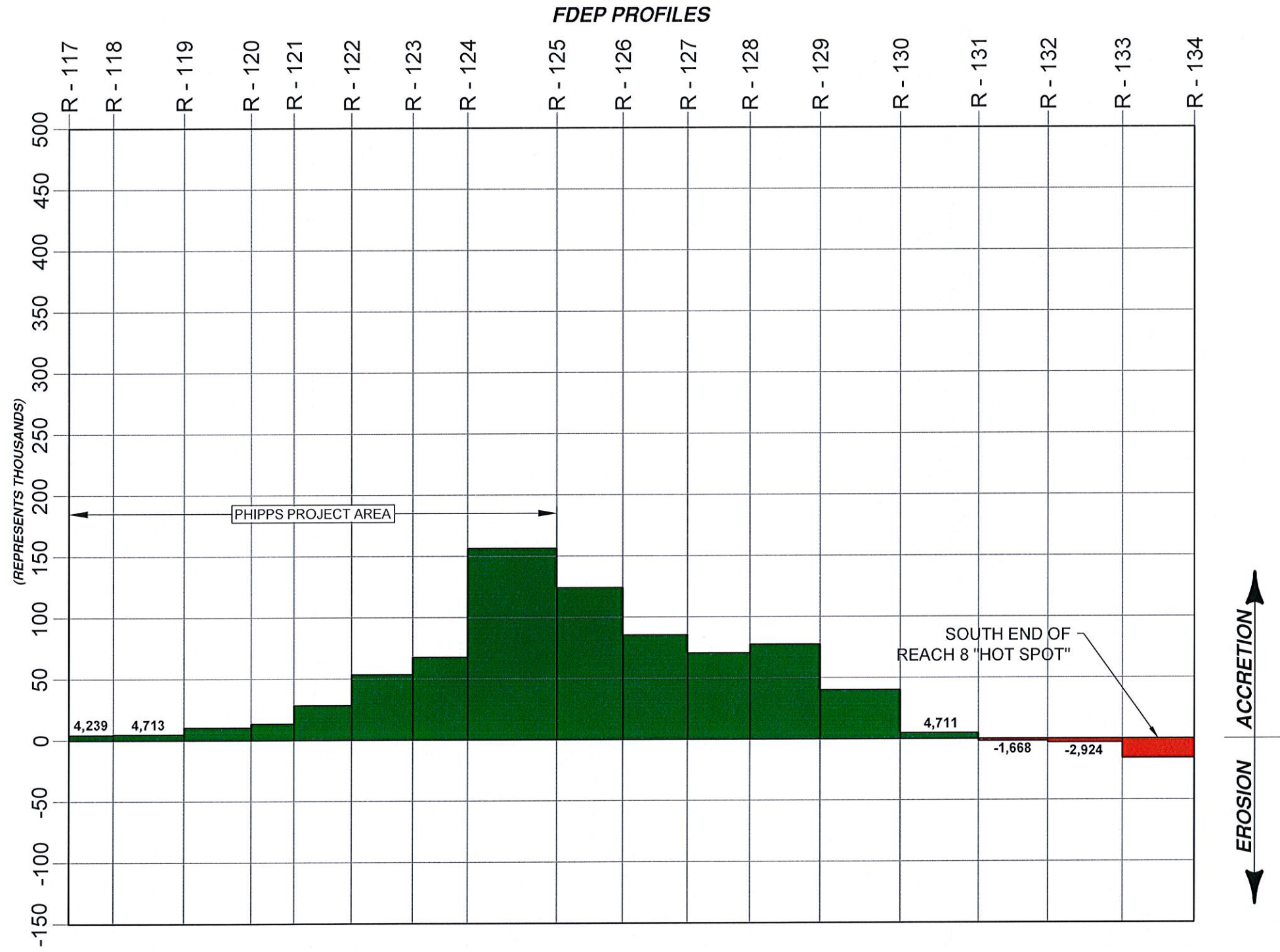


Figure 3d
Aug. 1990-July 2013 Volume Changes