

ATTACHMENT NO. 24

PERMIT SKETCHES

HL

DESIGN AUTHENTICATION

PROJECT: Hurricane Damage Storm Reduction Project, Lido Key
Sarasota County, Florida

ATTACHED PLAN SHEETS: 31 Plates

The attached plan was prepared by the Jacksonville District, U.S. Army Corps of Engineers (USACE). The initials or signatures and registrations designations of the signatory below or that appear on these project documents are within the scope of employment as required by USACE Engineering Regulation 1110-1-8152, PROFESSIONAL REGISTRATION, 8 Aug 1995, and are not made in the individual capacity of the signatories.

USACE employee signatures are provided in support of the "Interagency Coordination Agreement for Civil Works Projects", signed 28 Feb 2006 by the Florida Department of Environmental Protection, the USACE Jacksonville District, and USACE Mobile District.

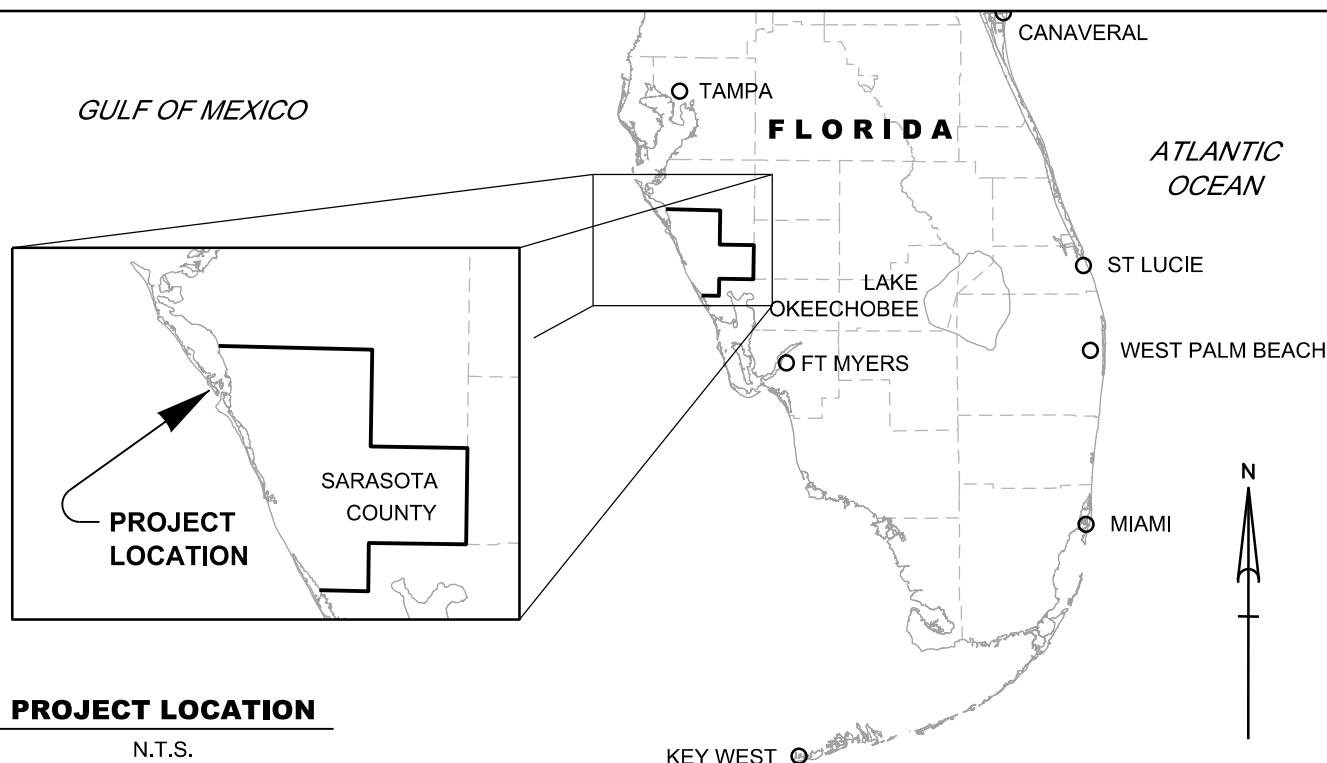
These plans are for permitting purposes only and are not for construction.



David Dudley P.E.
Chief, Design Branch (CH EN-D)
Engineering Division

3/2/15
DATE

31 plates dated Feb. 2014.



INDEX TO DRAWINGS

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ABBREVIATIONS

B/N = BETWEEN
 CBL = CONSTRUCTION BASELINE
 EL. = ELEVATION
 ECL. = EROSION CONTROL LINE
 FDEP. = FLORIDA DEPARTMENT OF ENV. PROTECTION
 FDOT. = FLORIDA DEPARTMENT OF TRANSPORTATION
 FT. = FOOT/FEET
 MHW. = MEAN HIGH WATER
 MLW. = MEAN LOW WATER
 NAD. = NORTH AMERICAN DATUM
 NAVD88. = NORTH ATLANTIC VERTICAL DATUM OF 1988.
 NTS. = NOT TO SCALE
 TYP. = TYPICAL

GENERAL NOTES:

- REFER TO THIS PLATE FOR PROJECT LOCATION, PLATE INDEX, ABBREVIATIONS AND LEGEND
- THE PLANE COORDINATES SHOWN ARE BASED ON THE FLORIDA STATE PLANE WEST COORDINATE SYSTEM (0902) AND REFERENCED TO THE 1990 ADJUSTMENT OF THE NAD OF 1983 (NAD83(90)).
- ELEVATIONS SHOWN ON ALL PLATES ARE IN FEET AND ARE BASED ON NAVD88. ELEVATIONS ARE BELOW THE DATUM UNLESS PRECEDED BY A (+) SIGN.
- FDOT SURVEY AND MAPPING OFFICE PROVIDED THE 2014 AERIAL PHOTOGRAPHY SHOWN ON THESE PLATES.
- THE REQUIRED BERM HEIGHT FOR THE PROJECT WILL BE +4.0' REFERENCING NAVD88.
- TIDAL RELATIONSHIPS SHOWN ON PLANS ARE BASED ON NOAA'S VDATUM MODEL VERSION 3.4. REFER TO PLATE 03 FOR OBSERVED TIDAL RELATIONSHIPS WITHIN THE AREA.
- REFER TO PLATE 04 FOR BEACH SURVEY NOTES AND FOR BORROW AREA SURVEY NOTES REFER TO PLATE 15.

LEGEND

	BEACH FILL AREA (PLAN VIEW)
	BEACH FILL AREA (PROFILE VIEW)
	EXISTING GROUND (PROFILE VIEW)
	DNR RANGE MONUMENT
	SLOPE INDICATOR SYMBOL W/ FILL
	CONSTRUCTION BASELINE W. STATIONING
	EROSION CONTROL LINE
	FDEP AZIMUTH BEARING
	MEAN HIGH WATER LINE
	BORING
	BORROW AREA
	SEAGRASS



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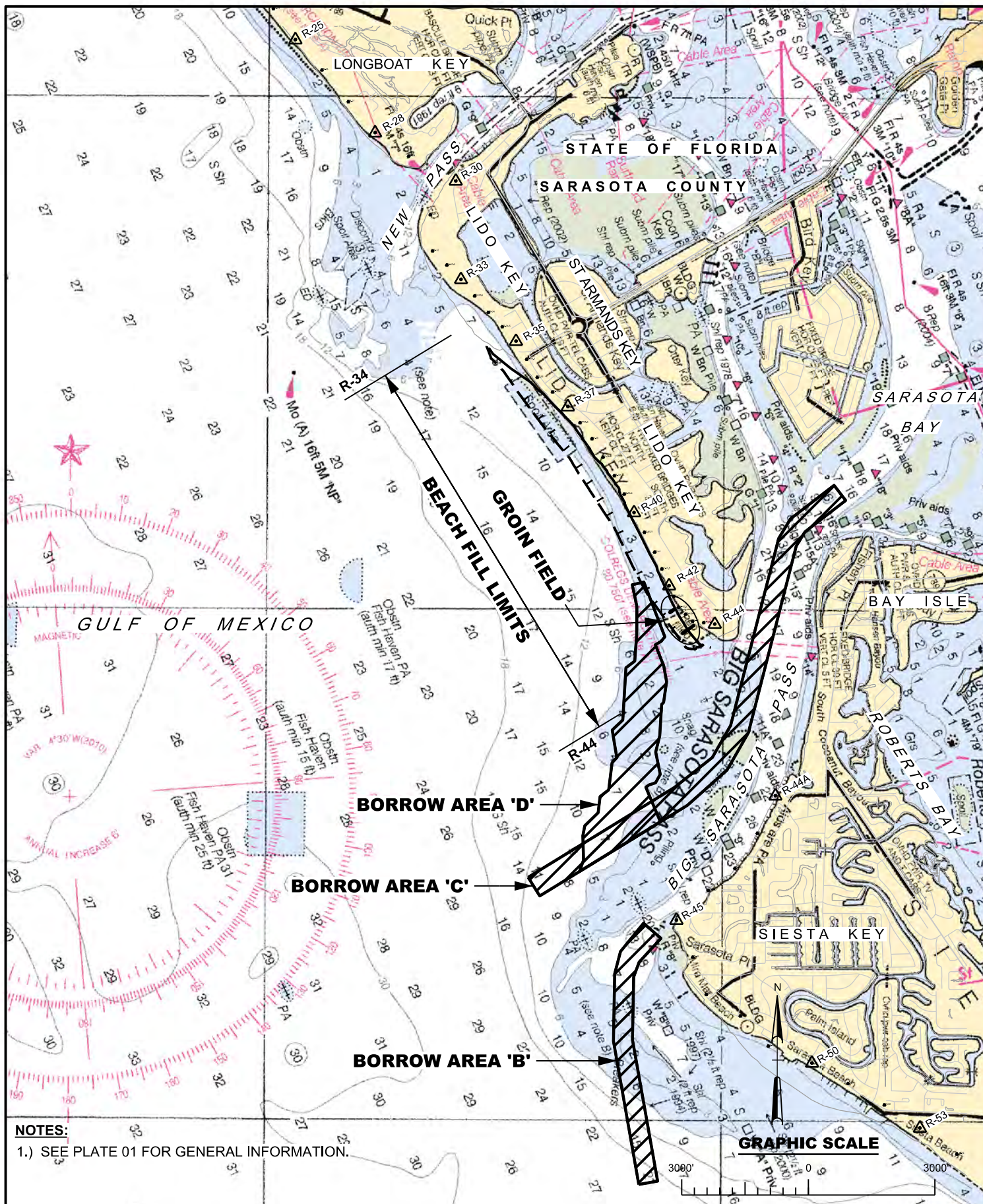
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BEACH EROSION CONTROL PROJECT
SARASOTA COUNTY, FLORIDA

LIDO KEY BEACH EROSION CONTROL PROJECT

PROJECT OVERVIEW

DATE	APPROVED	REVISION	DATE:
2/26/15	J.W.L.		FEB. 2015
			DWN BY:
			M.R.2
			PLATE:
			01 OF 31



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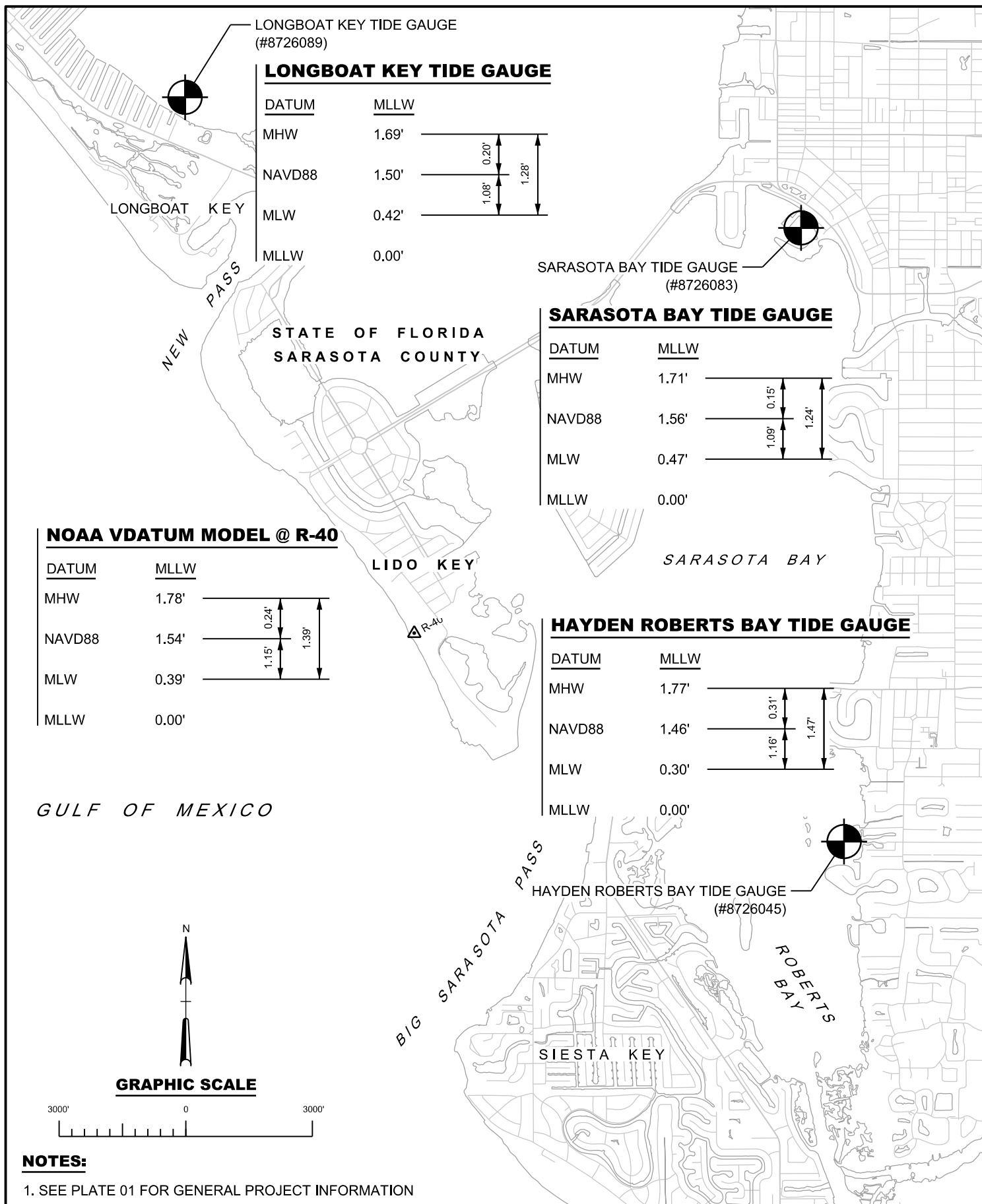
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PROJECT VICINITY

DATE	APPROVED	REVISION	DATE
2/26/15	J.W.L.		FEB. 2015
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			PLATE:
			02 OF 31



NOTES:

1. SEE PLATE 01 FOR GENERAL PROJECT INFORMATION



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PROJECT TIDAL DATUM RELATIONSHIPS

DATE	APPROVED	REVISION	DATE:
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			M.R.2
			PLATE:
			03 OF 31

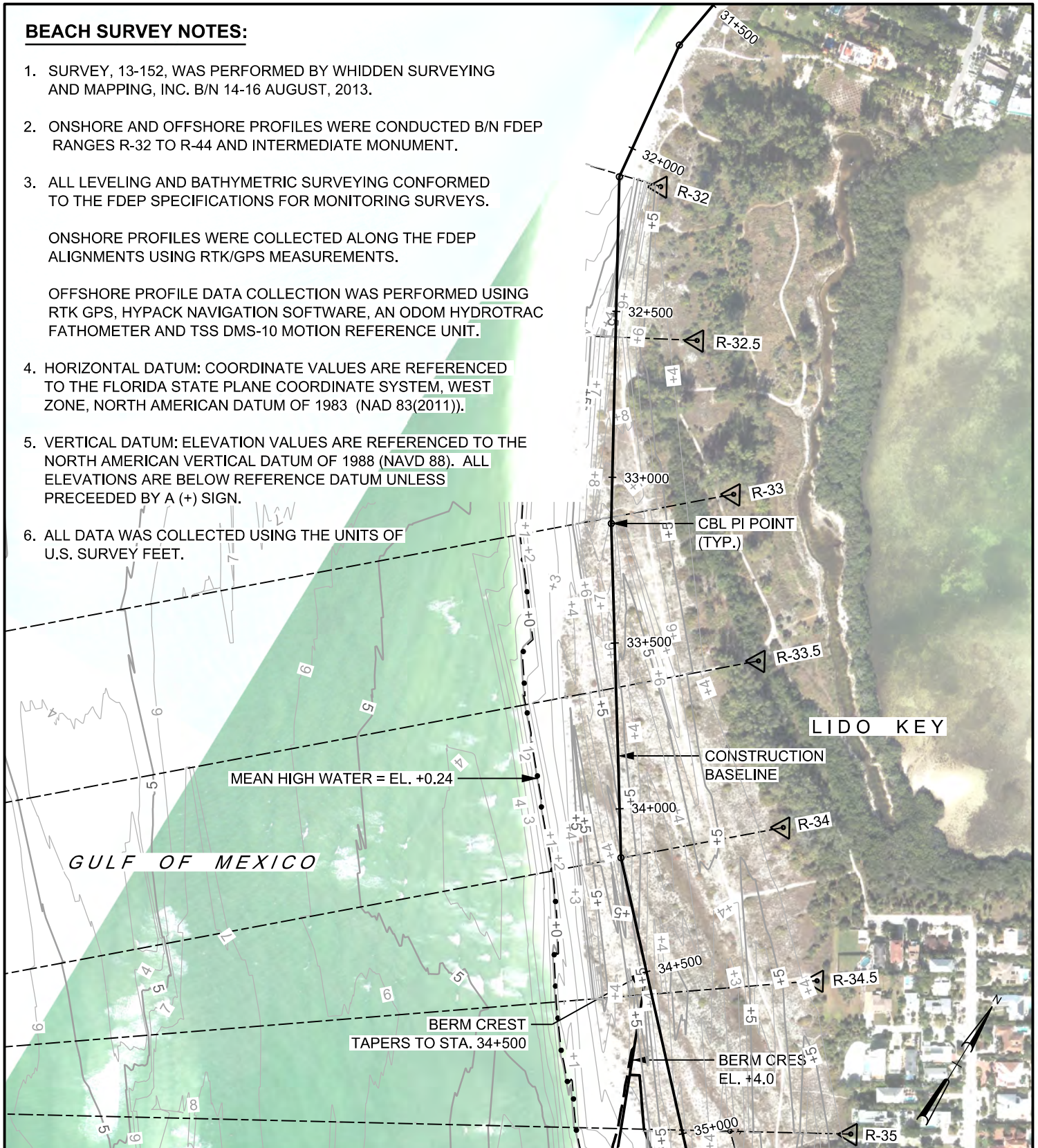
BEACH SURVEY NOTES:

1. SURVEY, 13-152, WAS PERFORMED BY WHIDDEN SURVEYING AND MAPPING, INC. B/N 14-16 AUGUST, 2013.
2. ONSHORE AND OFFSHORE PROFILES WERE CONDUCTED B/N FDEP RANGES R-32 TO R-44 AND INTERMEDIATE MONUMENT.
3. ALL LEVELING AND BATHYMETRIC SURVEYING CONFORMED TO THE FDEP SPECIFICATIONS FOR MONITORING SURVEYS.

ONSHORE PROFILES WERE COLLECTED ALONG THE FDEP ALIGNMENTS USING RTK/GPS MEASUREMENTS.

OFFSHORE PROFILE DATA COLLECTION WAS PERFORMED USING RTK GPS, HYPACK NAVIGATION SOFTWARE, AN ODOM HYDROTRAC FATHOMETER AND TSS DMS-10 MOTION REFERENCE UNIT.

4. HORIZONTAL DATUM: COORDINATE VALUES ARE REFERENCED TO THE FLORIDA STATE PLANE COORDINATE SYSTEM, WEST ZONE, NORTH AMERICAN DATUM OF 1983 (NAD 83(2011)).
5. VERTICAL DATUM: ELEVATION VALUES ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88). ALL ELEVATIONS ARE BELOW REFERENCE DATUM UNLESS PRECEDED BY A (+) SIGN.
6. ALL DATA WAS COLLECTED USING THE UNITS OF U.S. SURVEY FEET.

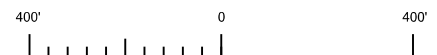


MATCHLINE PLATE 05

NOTES:

1. SEE PLATE 01 FOR GENERAL PROJECT INFORMATION
2. BERM CREST WIDTH IS 200' FROM CBL.

GRAPHIC SCALE



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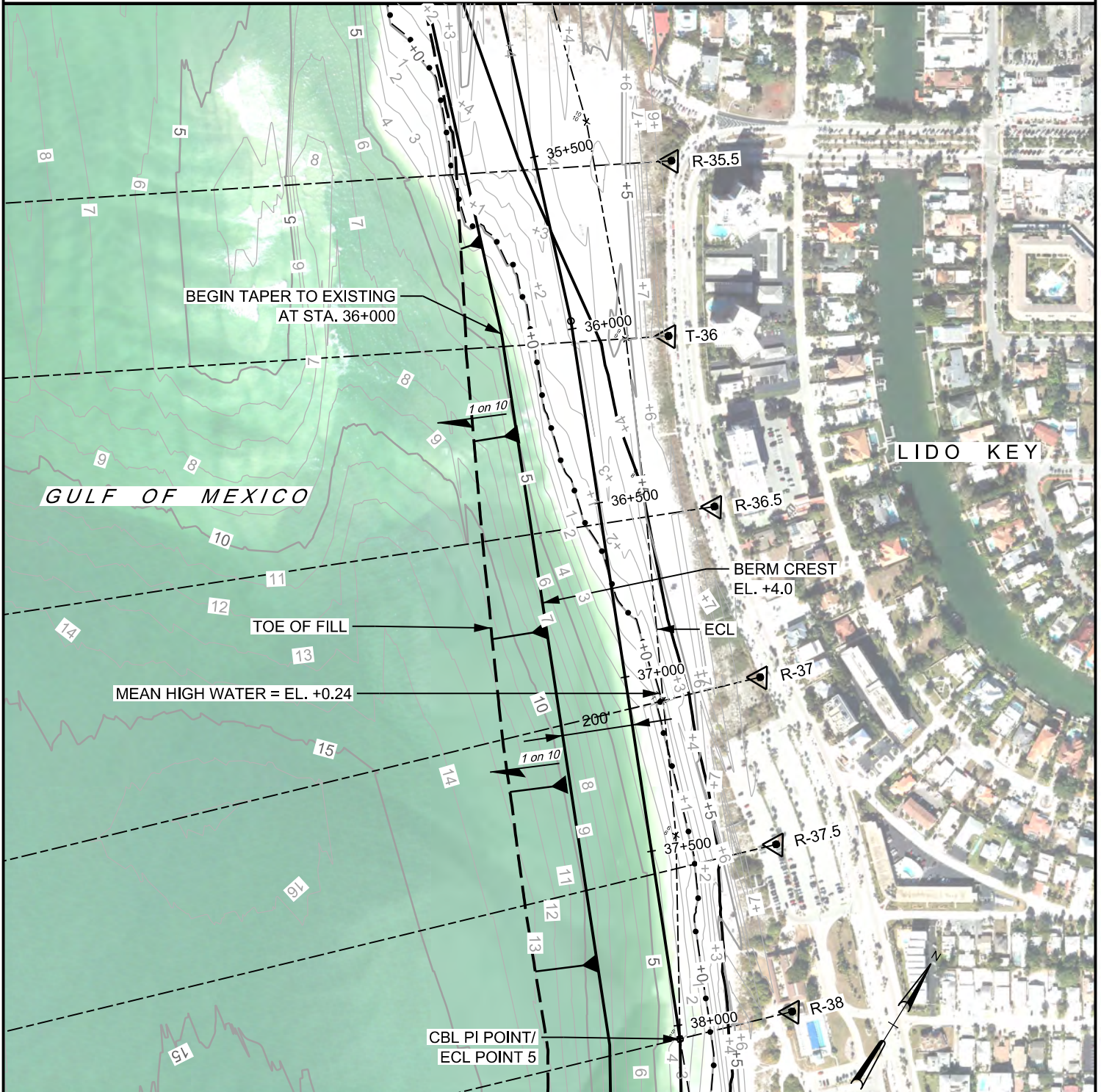
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LIDO KEY BEACH EROSION CONTROL PROJECT

BEACH FILL - PLAN VIEW

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2/26/15	J.W.L.		FEB. 2015
			OWN BY:
			M.R.2
			PLATE:
			04 OF 31

MATCHLINE PLATE 04

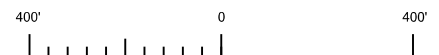


MATCHLINE PLATE 06

NOTES:

1. SEE PLATE 01 FOR GENERAL PROJECT INFORMATION
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			05 OF 31

MATCHLINE PLATE 05

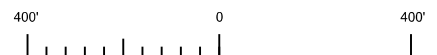


MATCHLINE PLATE 07

NOTES:

1. SEE PLATE 01 FOR GENERAL PROJECT INFORMATION
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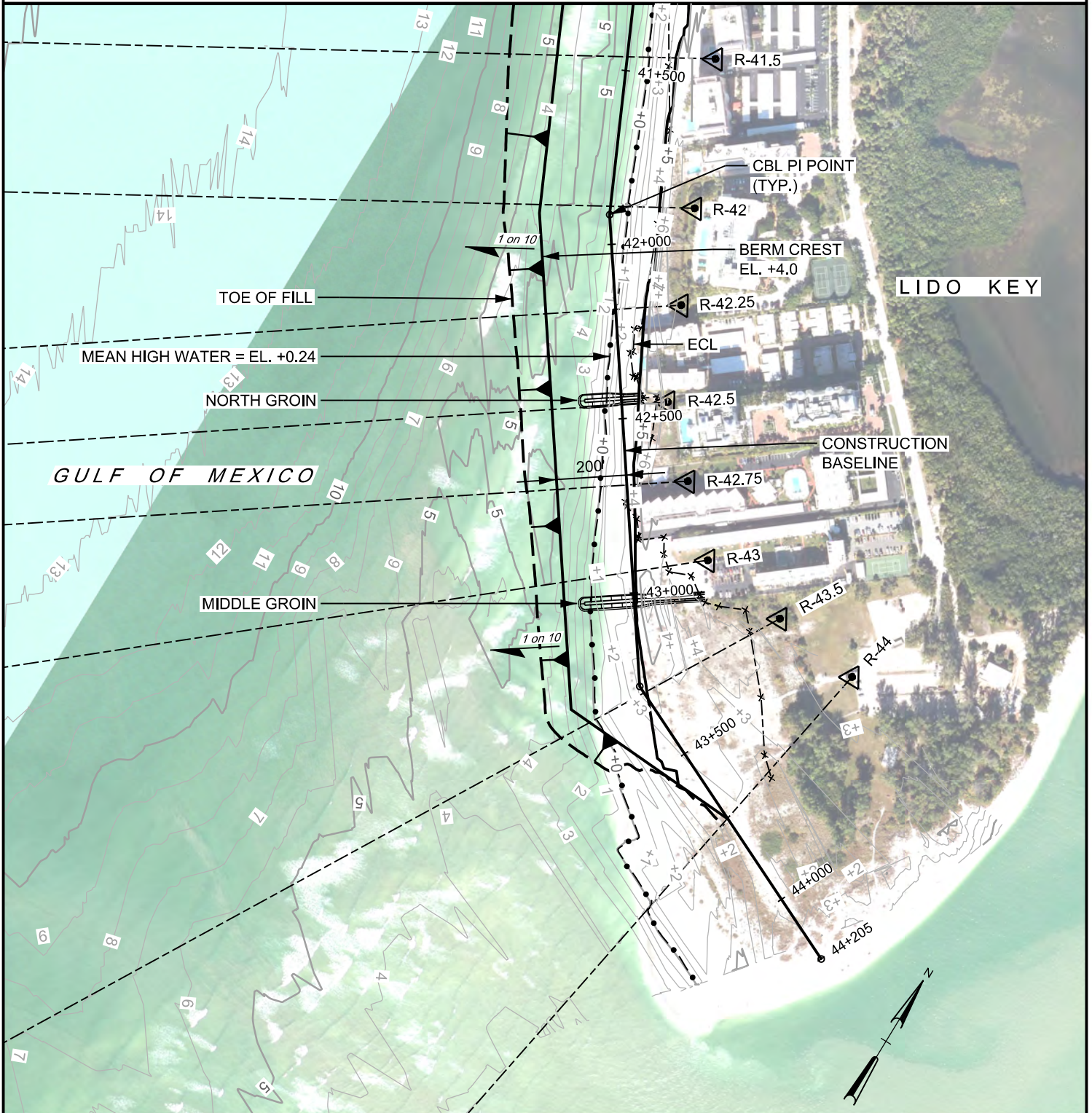
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BEACH FILL - PLAN VIEW

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2/26/15	J.W.L.		FEB. 2015
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			M.R.2
			PLATE:
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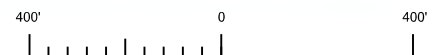
MATCHLINE PLATE 06



NOTES:

1. SEE PLATE 01 FOR GENERAL PROJECT INFORMATION
2. BERM CREST WIDTH IS 200' FROM CBL.

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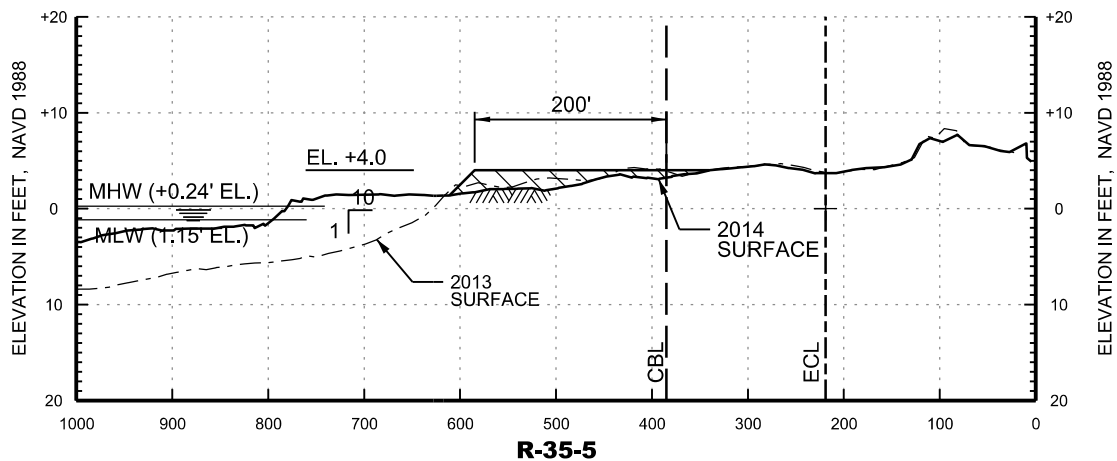
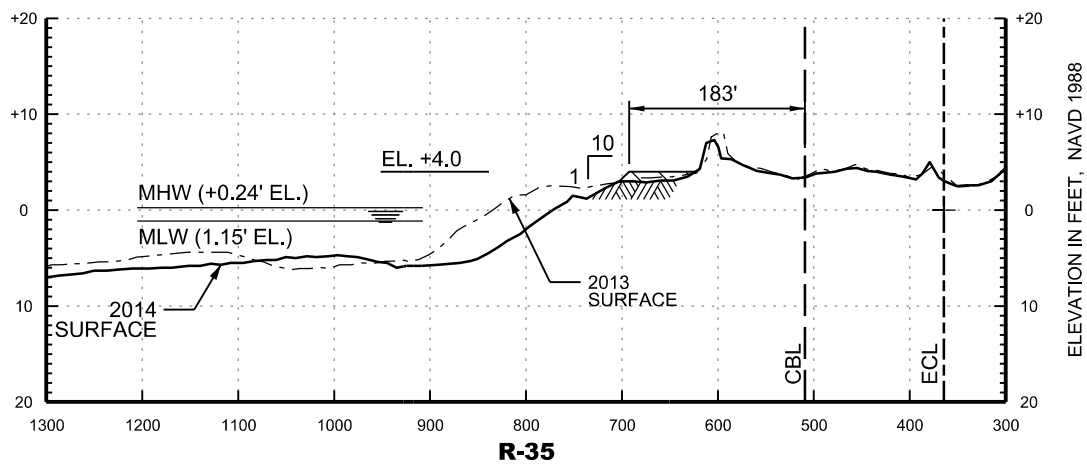
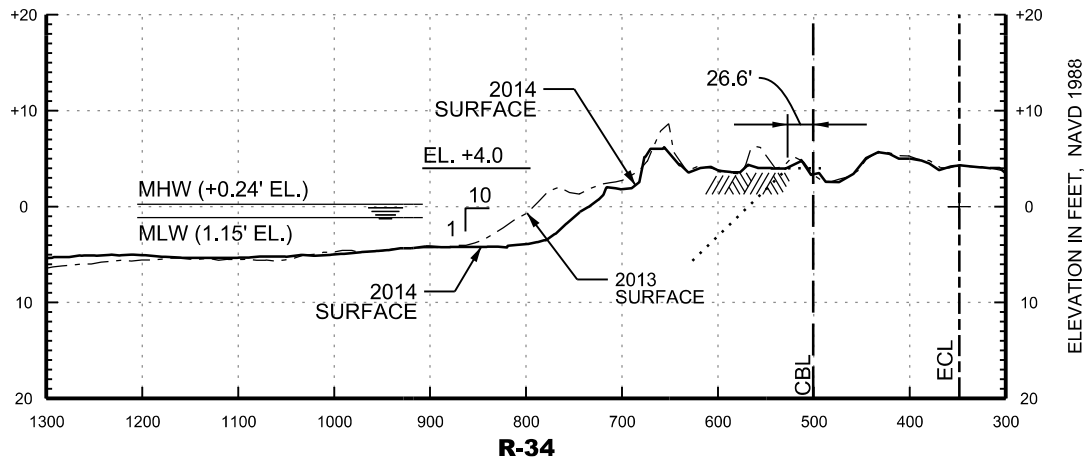
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SARASOTA COUNTY, FLORIDA

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BEACH FILL - PLAN VIEW

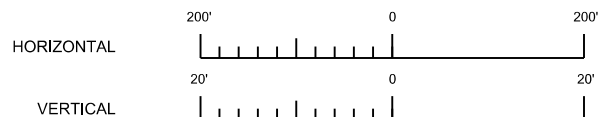
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NOTES:

1. SEE PLATE 01 FOR GENERAL PROJECT INFORMATION
2. THE HORIZONTAL DISTANCES ARE IN FEET AND FOLLOW FDEP RANGE MONUMENT AZIMUTH.

GRAPHIC SCALES



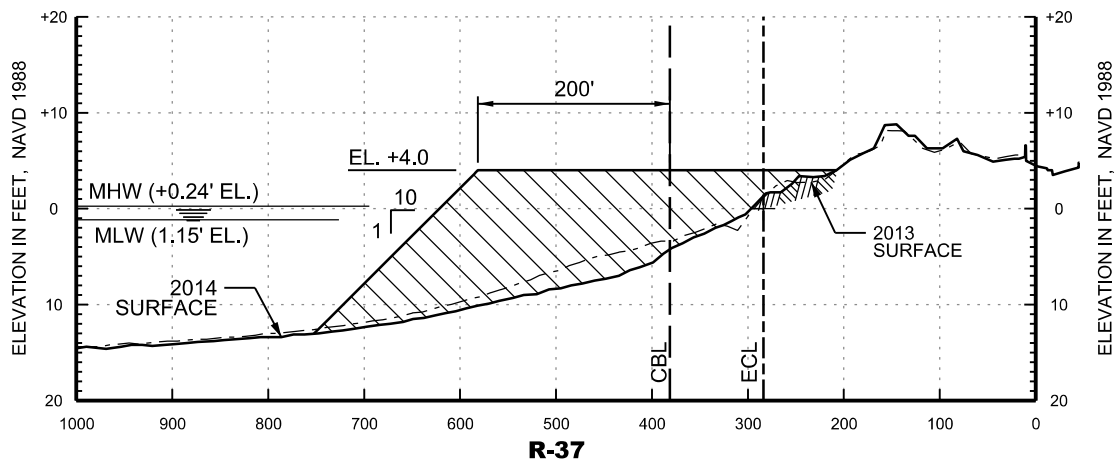
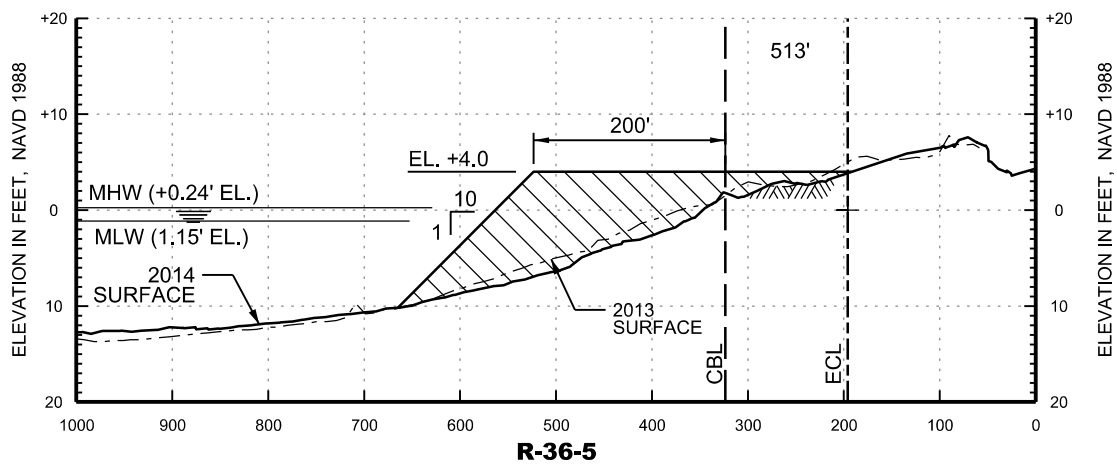
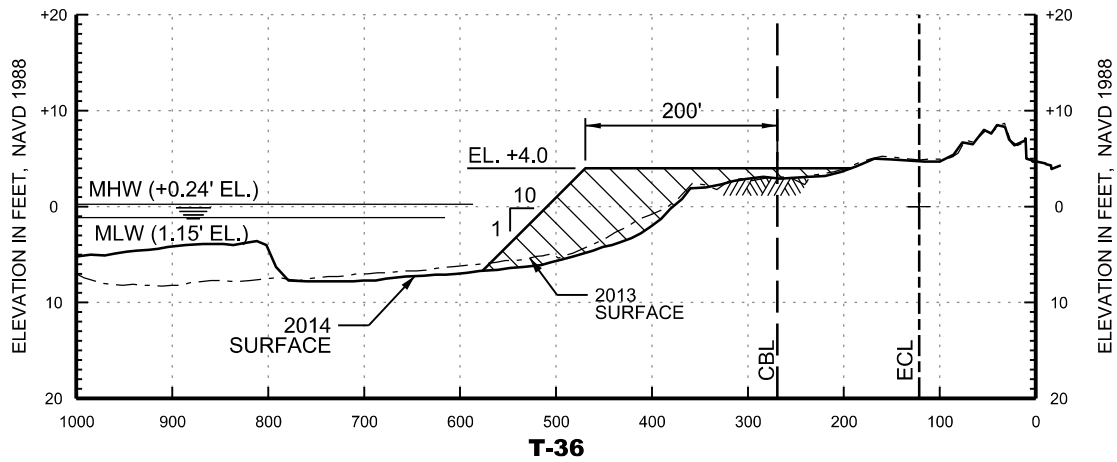
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BEACH FILL - PROFILE VIEW

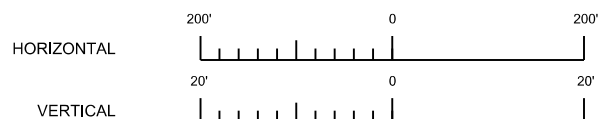
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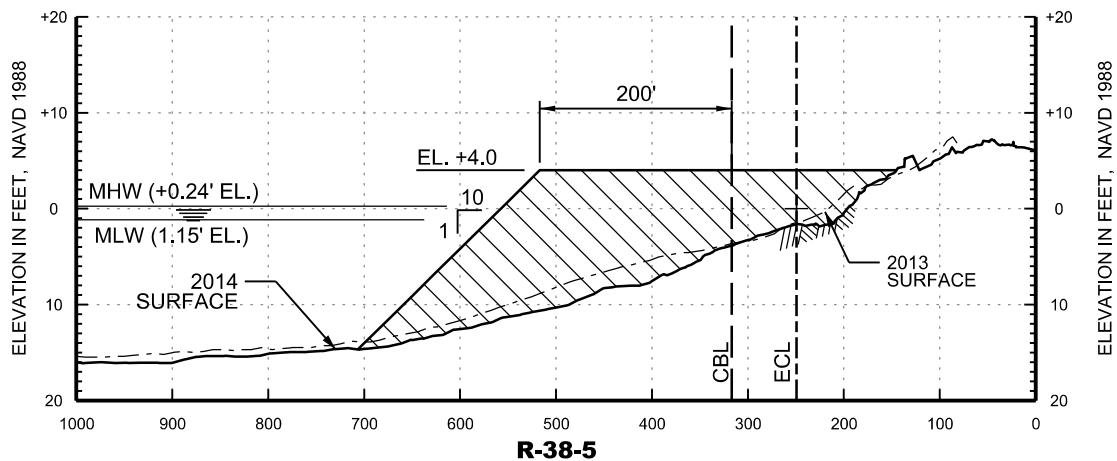
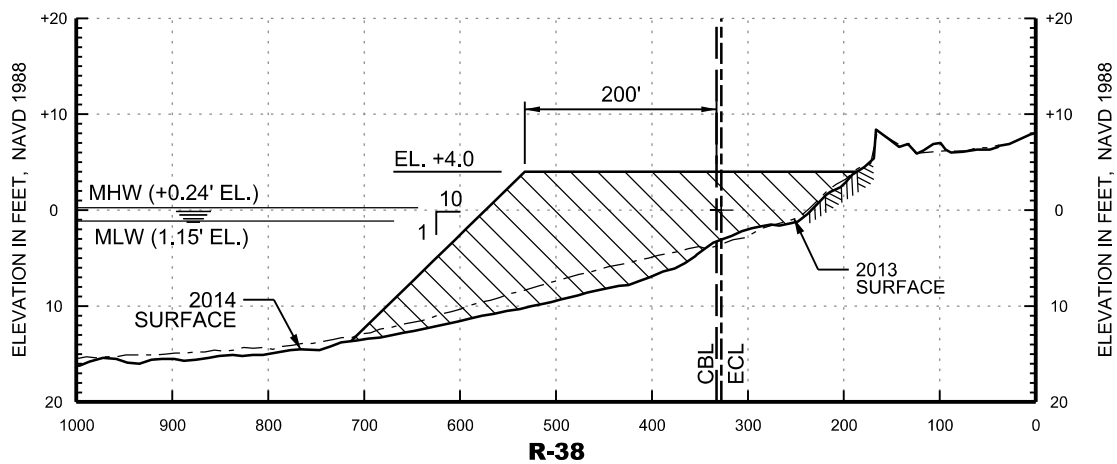
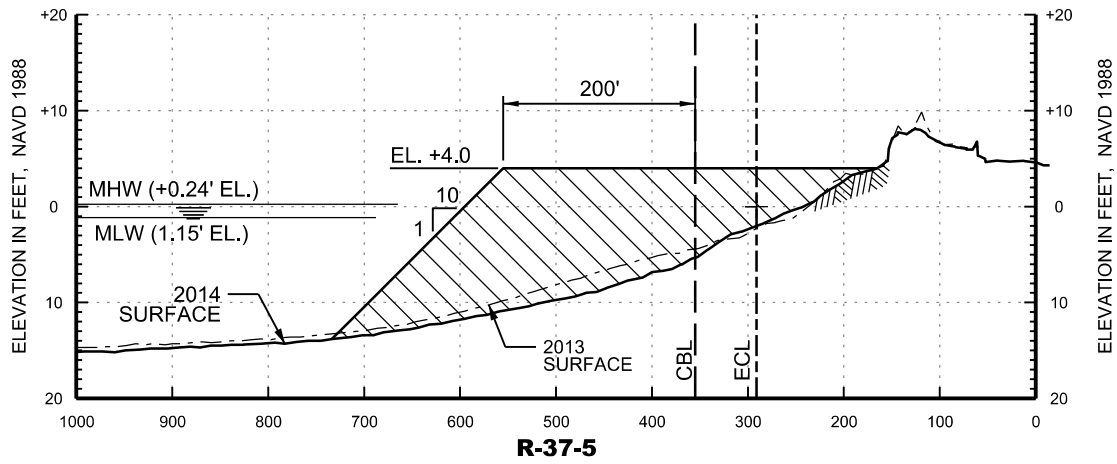
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SARASOTA COUNTY, FLORIDA

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BEACH FILL - PROFILE VIEW

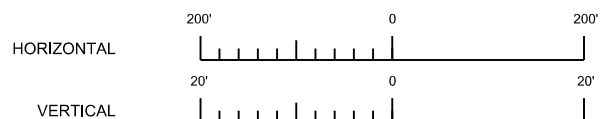
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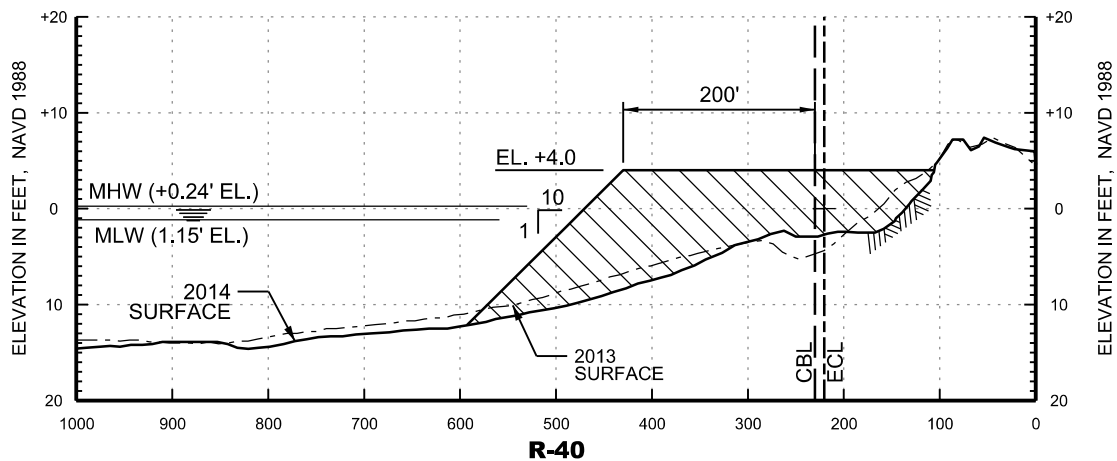
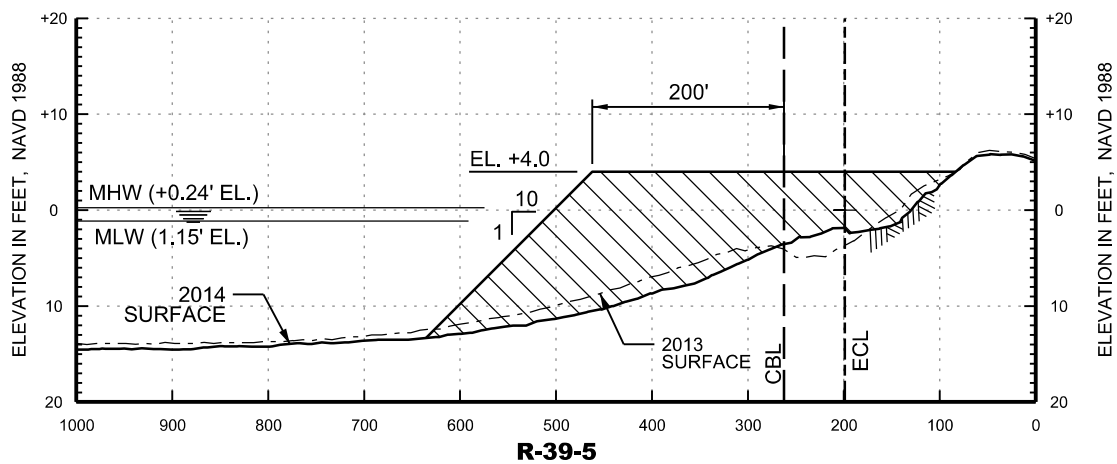
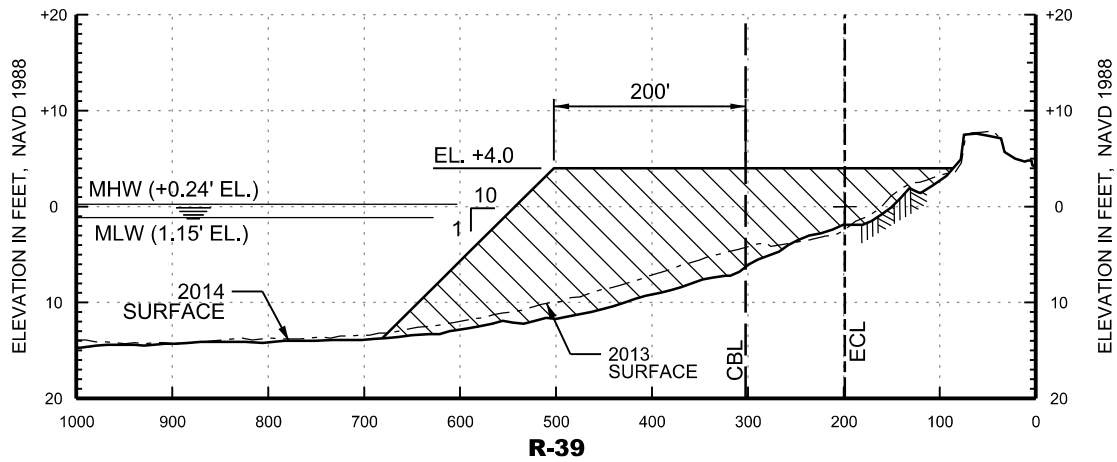
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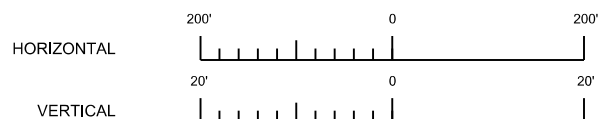
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2/26/15	J.W.L.		FEB. 2015
			DWN BY: M.R.2
			PLATE: 10 OF 31



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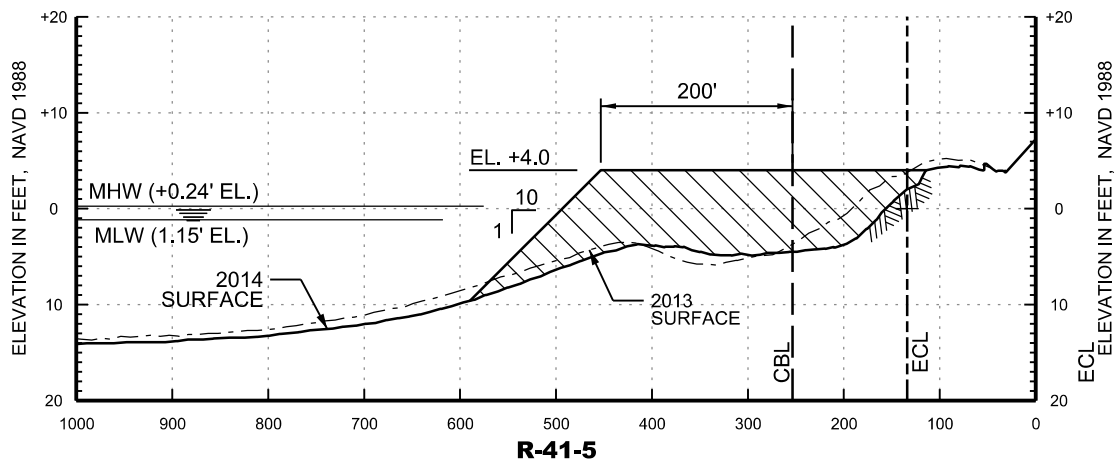
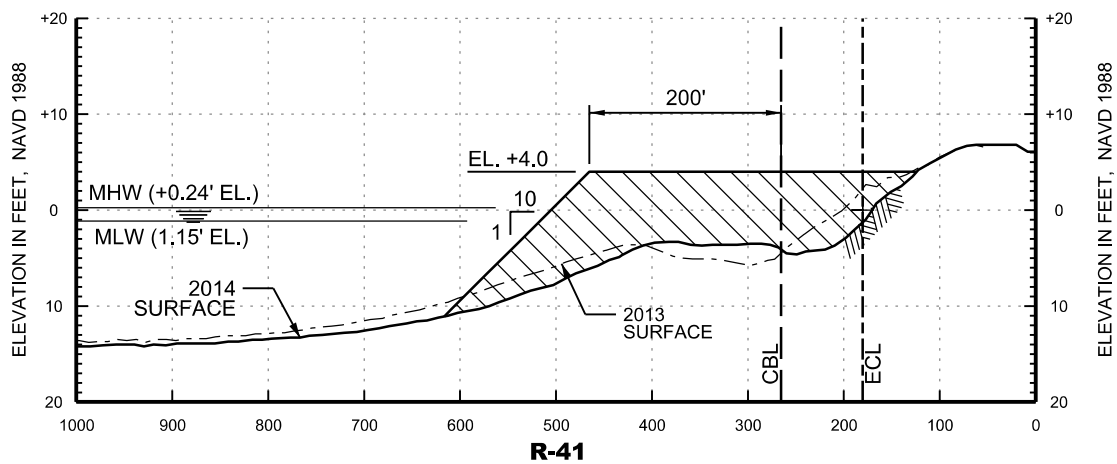
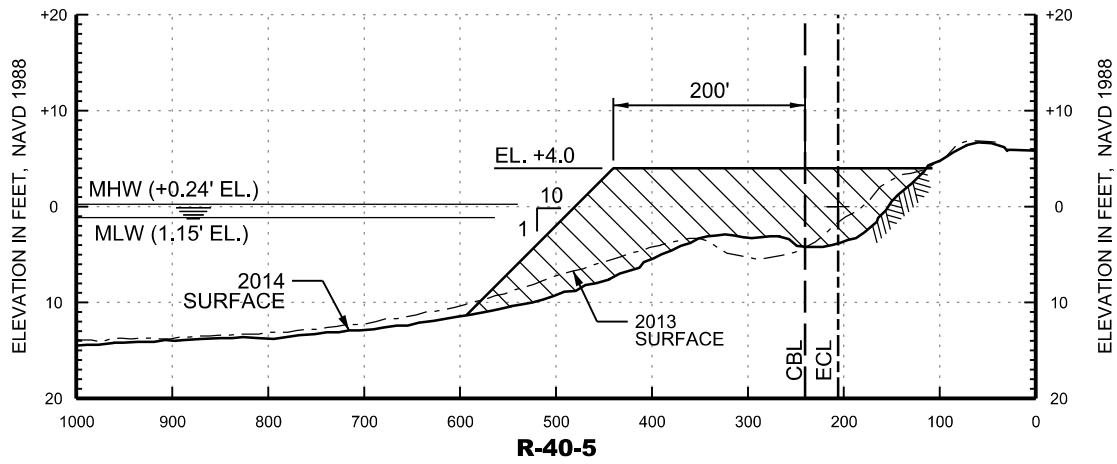
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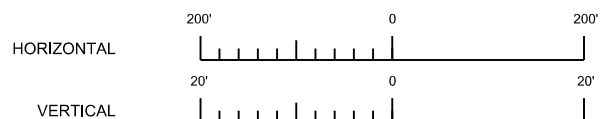
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			11 OF 31



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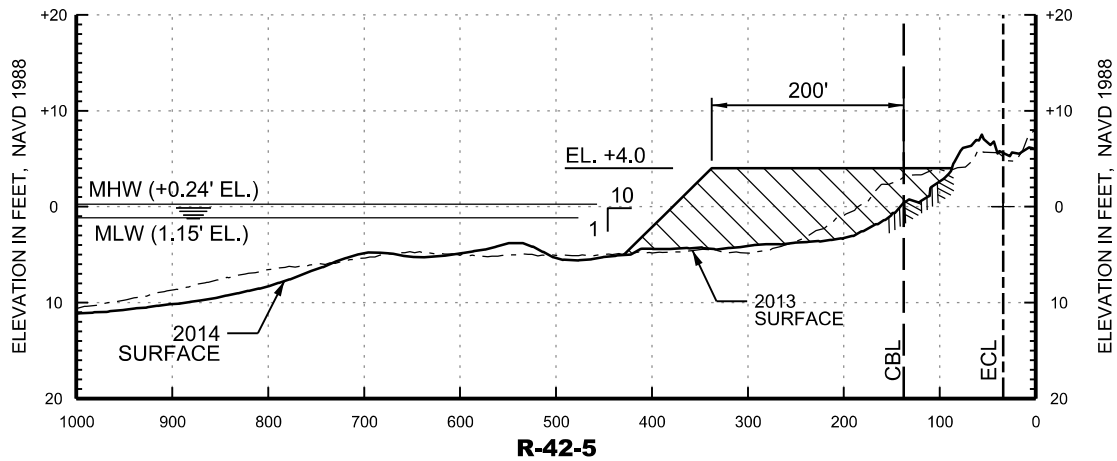
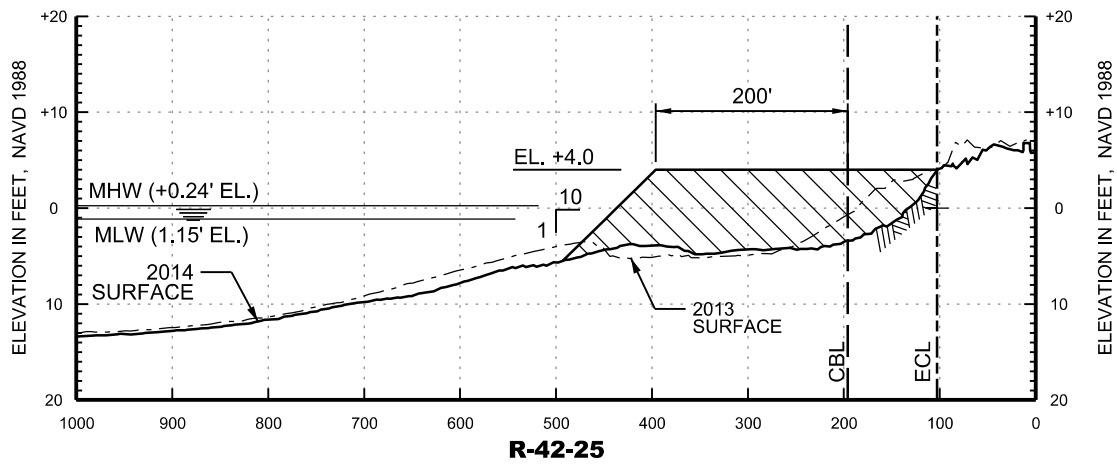
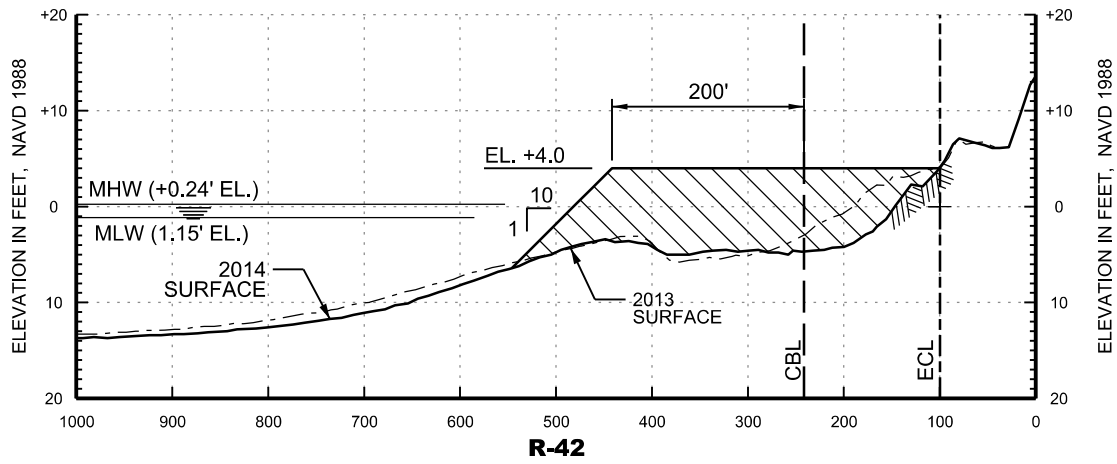
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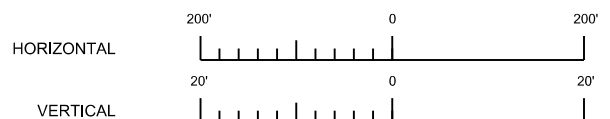
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NOTES:

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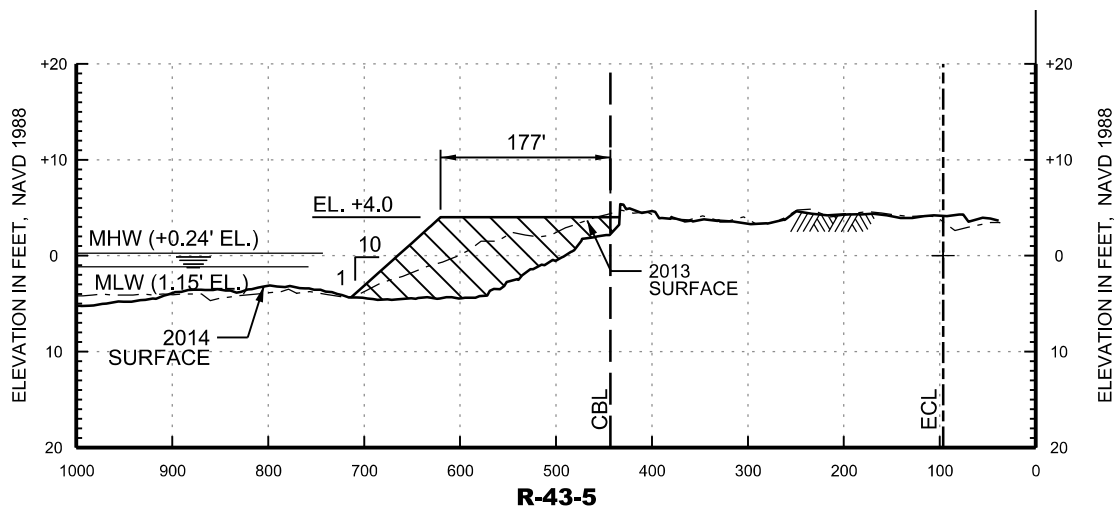
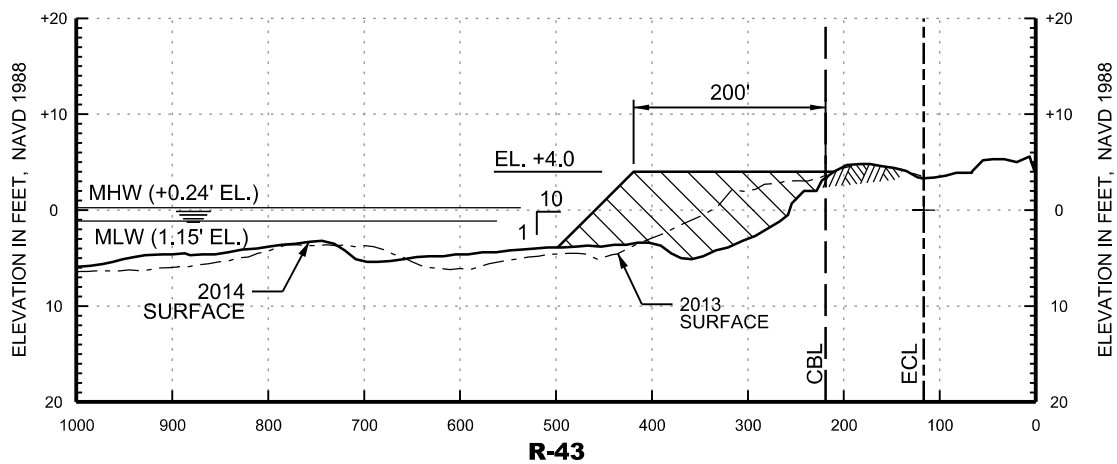
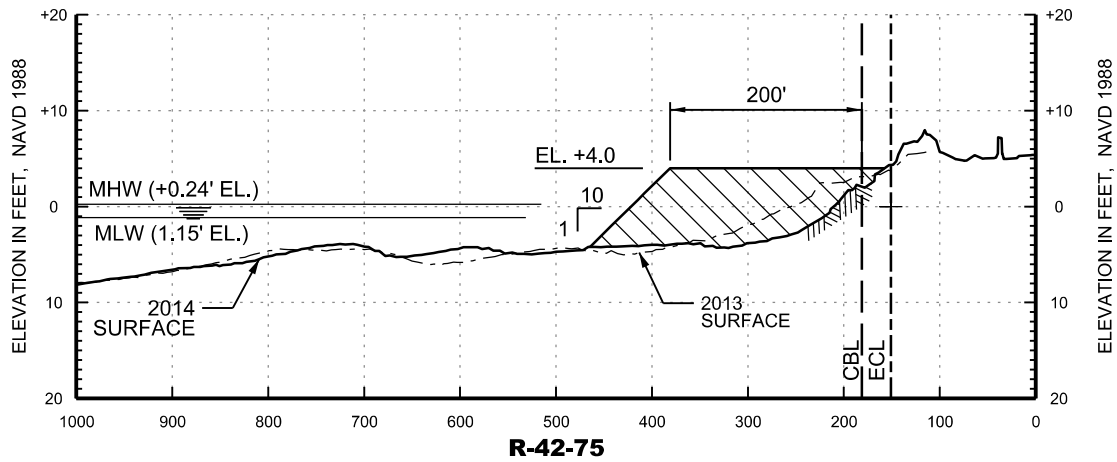
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LIDO KEY BEACH EROSION CONTROL PROJECT

BEACH FILL - PROFILE VIEW

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			PLATE:
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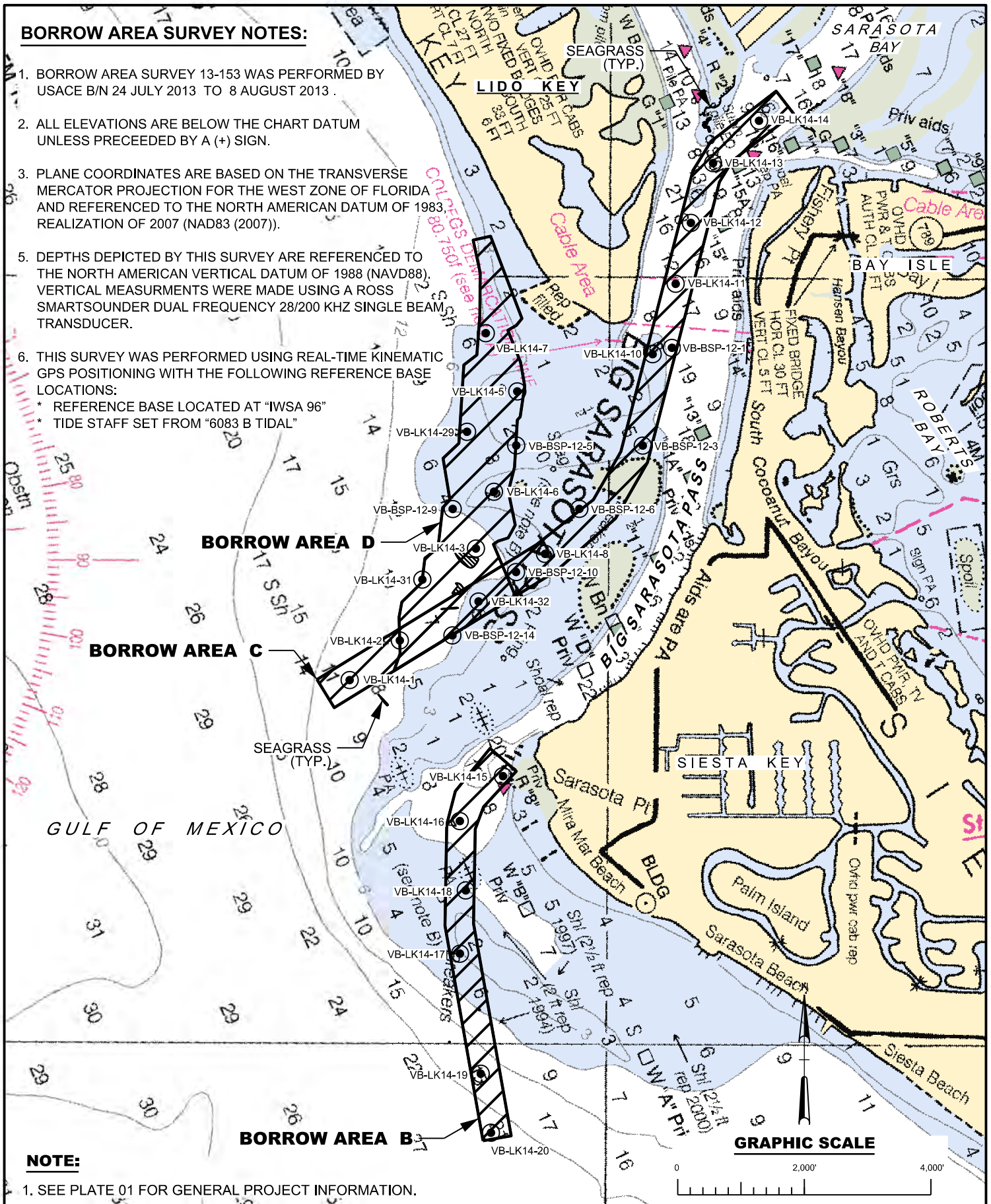
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			DWN BY:
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			PLATE:
			14 OF 31

BORROW AREA SURVEY NOTES:

1. BORROW AREA SURVEY 13-153 WAS PERFORMED BY USACE B/N 24 JULY 2013 TO 8 AUGUST 2013.
2. ALL ELEVATIONS ARE BELOW THE CHART DATUM UNLESS PRECEDED BY A (+) SIGN.
3. PLANE COORDINATES ARE BASED ON THE TRANSVERSE MERCATOR PROJECTION FOR THE WEST ZONE OF FLORIDA AND REFERENCED TO THE NORTH AMERICAN DATUM OF 1983 REALIZATION OF 2007 (NAD83 (2007)).
5. DEPTHS DEPICTED BY THIS SURVEY ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). VERTICAL MEASUREMENTS WERE MADE USING A ROSS SMARTSOUNDER DUAL FREQUENCY 28/200 KHZ SINGLE BEAM TRANSDUCER.
6. THIS SURVEY WAS PERFORMED USING REAL-TIME KINEMATIC GPS POSITIONING WITH THE FOLLOWING REFERENCE BASE LOCATIONS:
 - * REFERENCE BASE LOCATED AT "IWSA 96"
 - * TIDE STAFF SET FROM "6083 B TIDAL"



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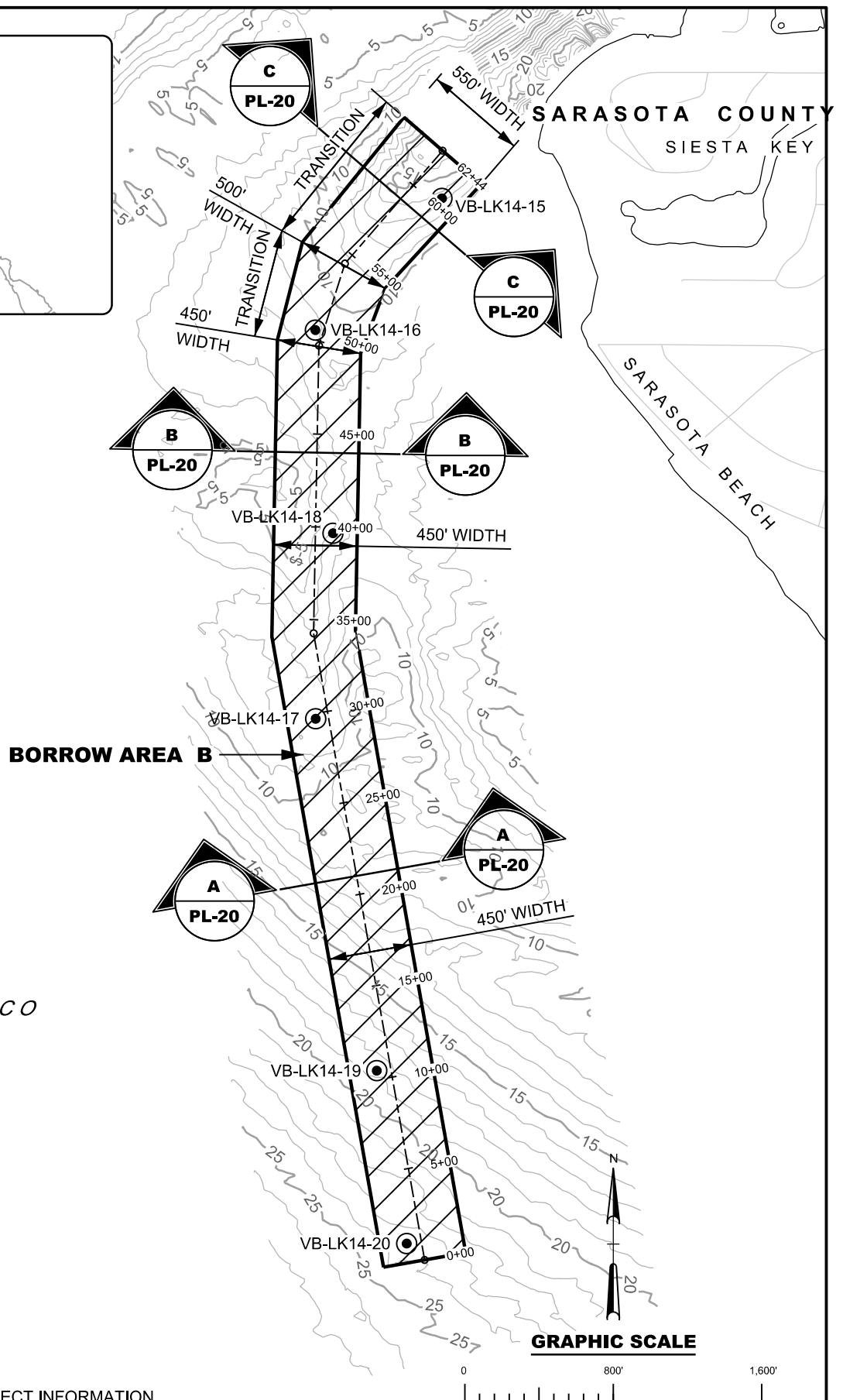
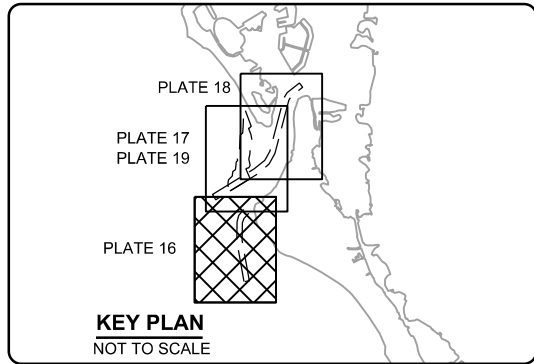
DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

BEACH EROSION CONTROL PROJECT
SARASOTA COUNTY, FLORIDA

LIDO KEY BEACH EROSION CONTROL PROJECT

BORROW AREAS - OVERALL PLAN

DATE	APPROVED	REVISION	DATE
2/26/15	J.W.L.		FEB. 2015
			OWN BY:
			M.R.2
			PLATE:
			15 OF 31



NOTE:

1. SEE PLATE 01 FOR GENERAL PROJECT INFORMATION.



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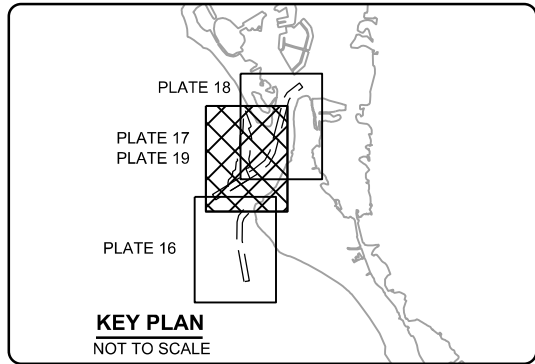
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BEACH EROSION CONTROL PROJECT
SARASOTA COUNTY, FLORIDA
LIDO KEY BEACH EROSION CONTROL PROJECT
BORROW AREA B - PLAN VIEW

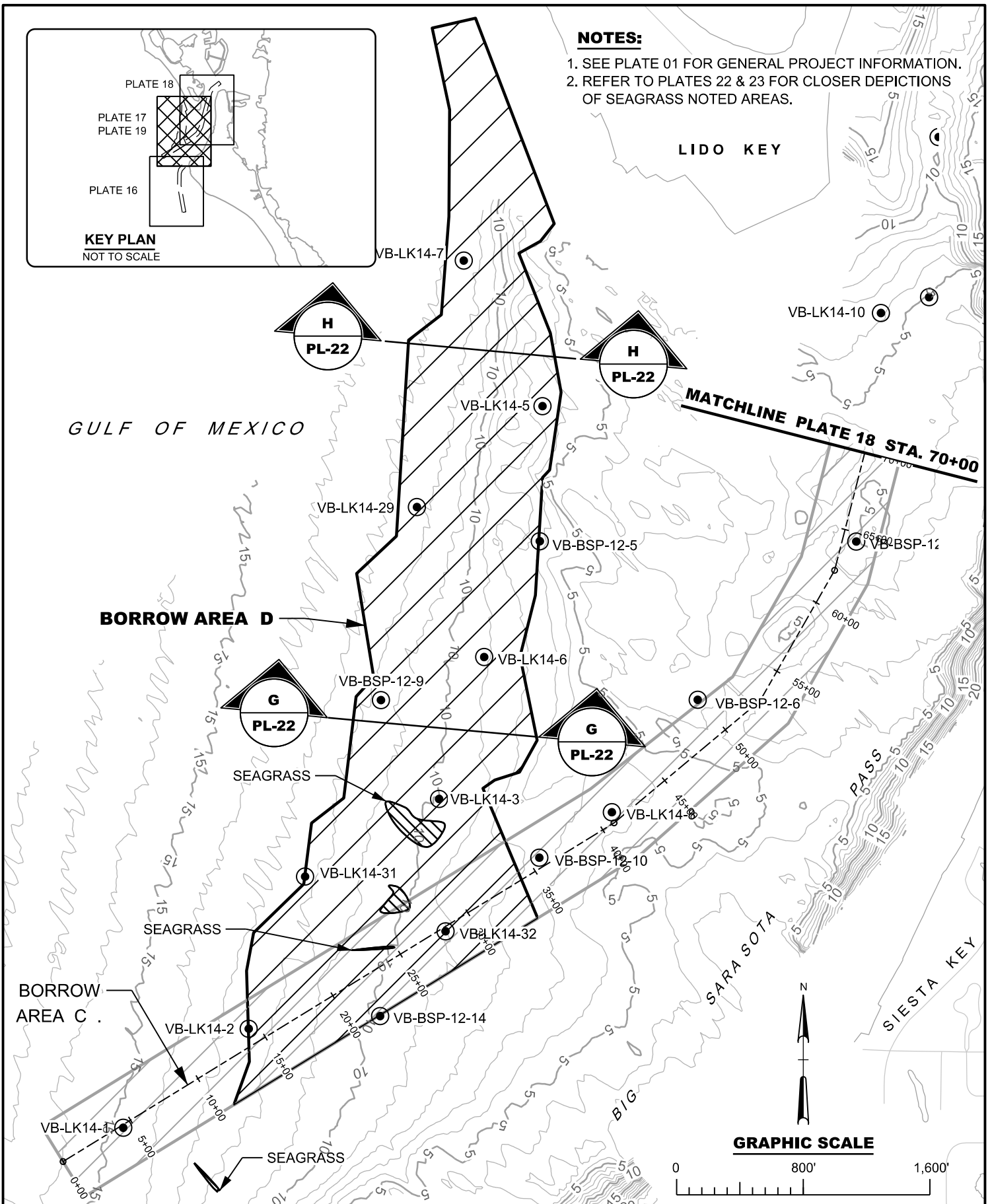
DATE	APPROVED	REVISION	DATE:
2/26/15	J.W.L.		FEB. 2015
			DWN BY:
			M.R.2
			PLATE:
			16 OF 31

DATE	APPROVED	REVISION	DATE:
2/26/15	J.W.L.		FEB. 2015
			DWN BY:
			M.R.2
			PLATE:
			17 OF 31



NOTES:

1. SEE PLATE 01 FOR GENERAL PROJECT INFORMATION.
2. REFER TO PLATES 22 & 23 FOR CLOSER DEPICTIONS OF SEAGRASS NOTED AREAS.



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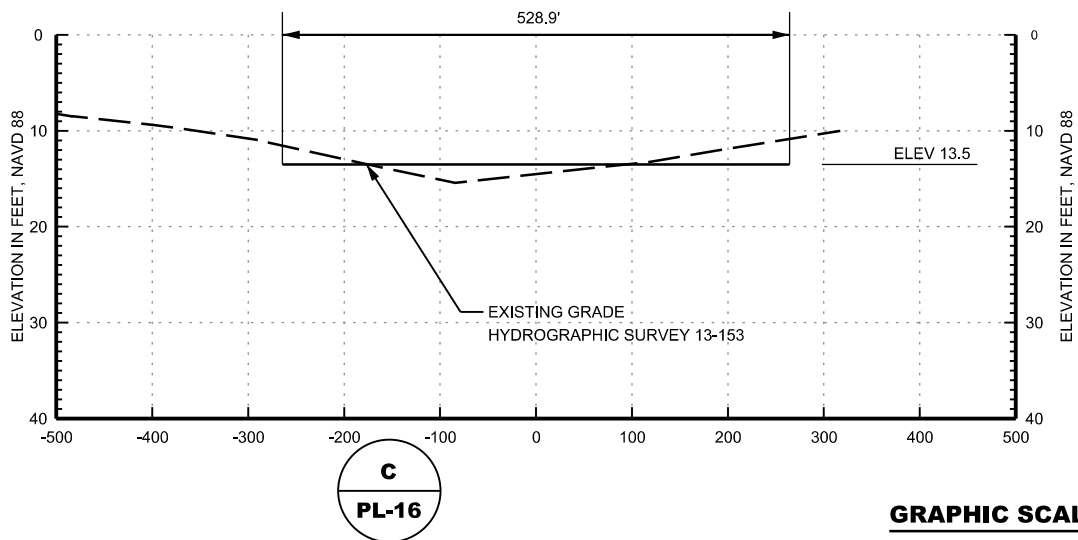
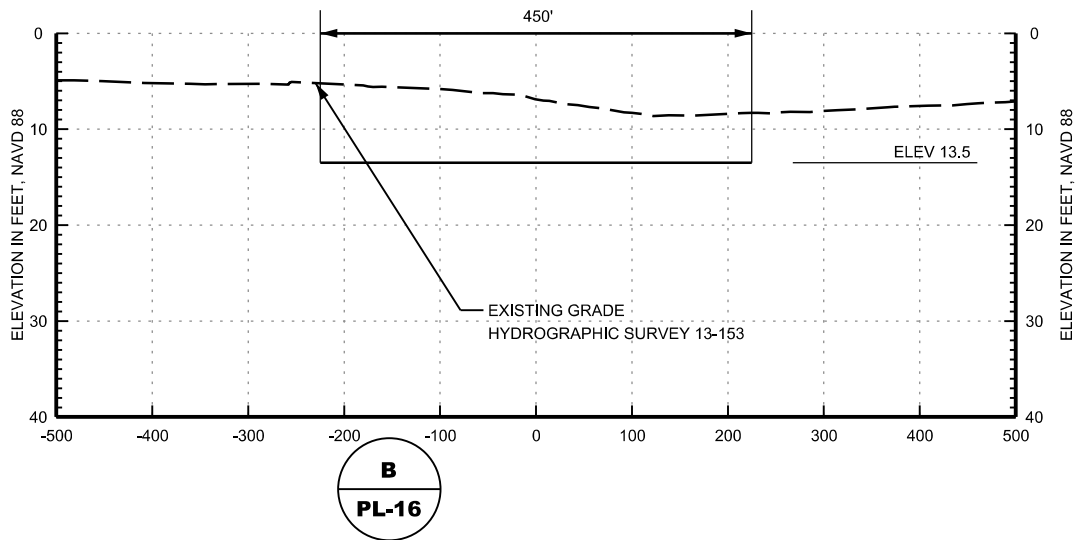
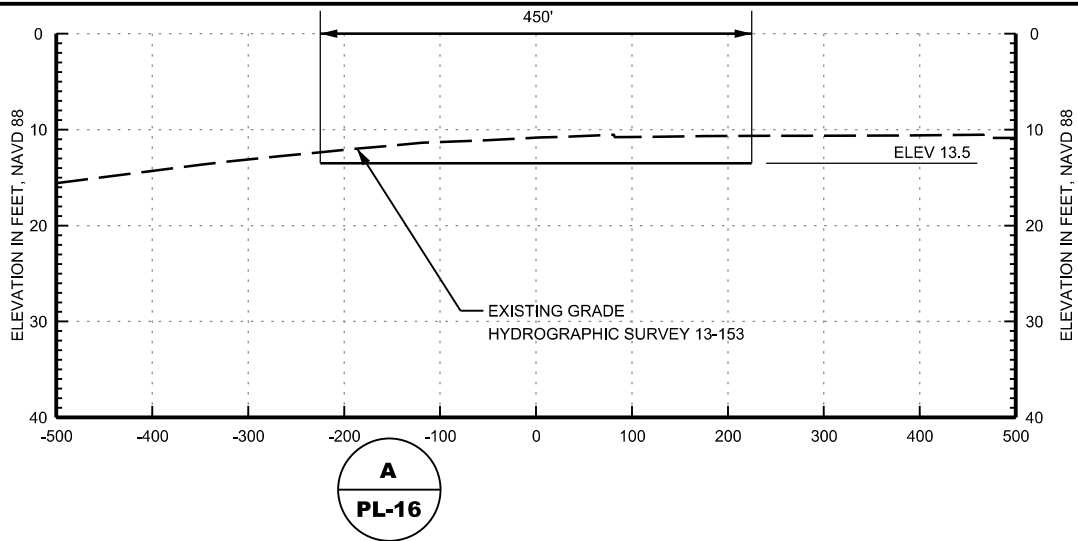
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BORROW AREA D - PLAN VIEW

DATE	APPROVED	REVISION	DATE:
2/26/15	J.W.L.		FEB. 2015
			DWN BY:
			M.R.2
			PLATE:
			19 OF 31

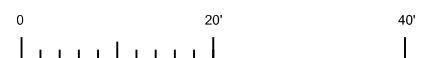


GRAPHIC SCALES

HORIZONTAL



VERTICAL



NOTE:

1. SEE PLATE 01 FOR GENERAL PROJECT INFORMATION.



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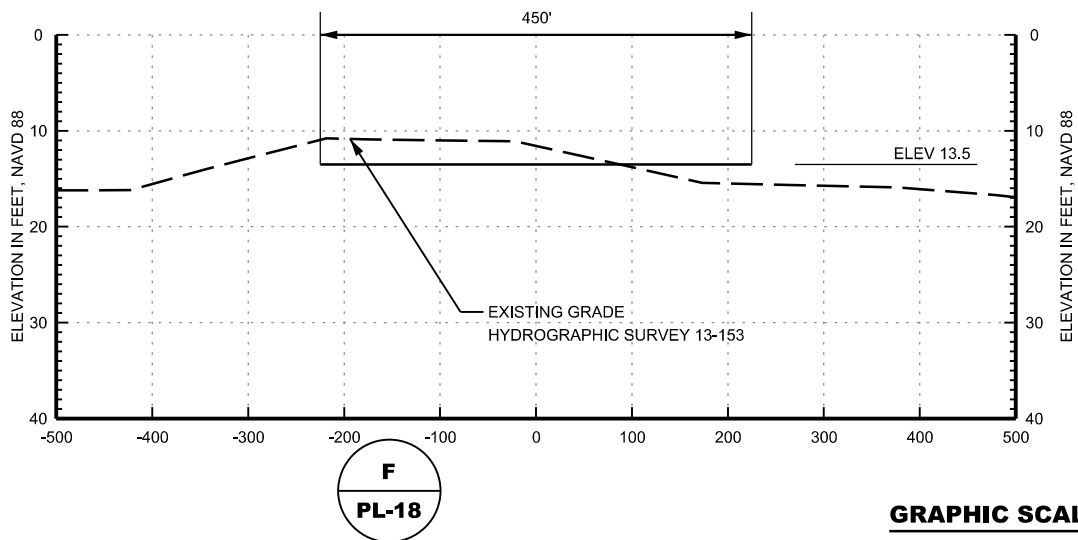
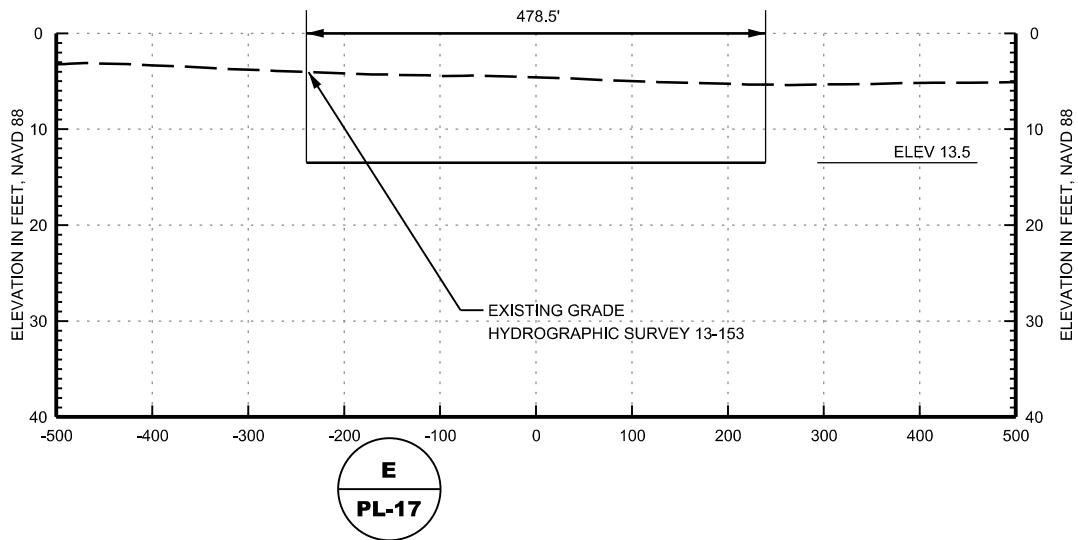
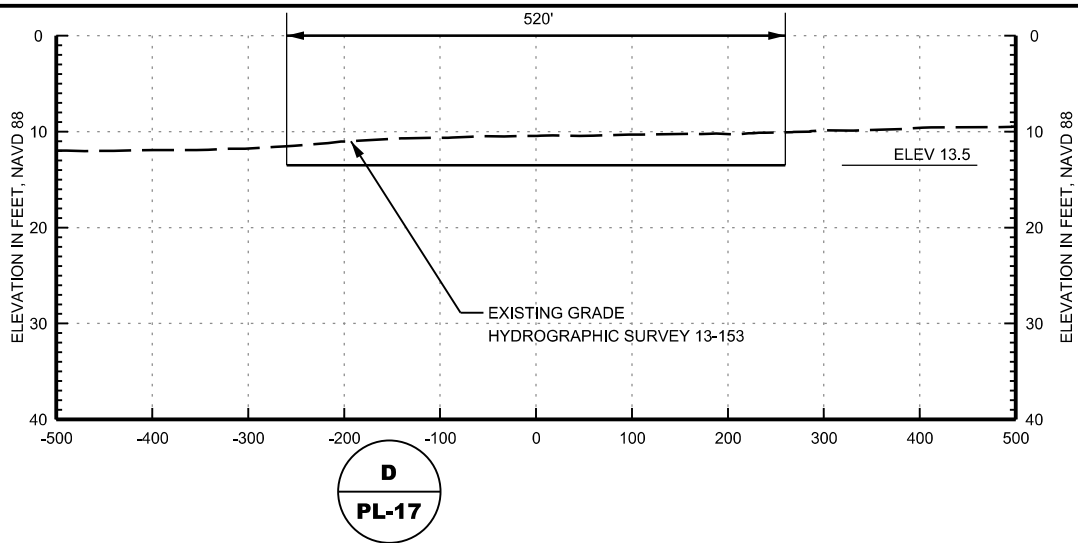
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SARASOTA COUNTY, FLORIDA
LIDO KEY BEACH EROSION CONTROL PROJECT

BORROW AREA B - CROSS SECTIONS

DATE	APPROVED	REVISION	DATE:
2/26/15	J.W.L.		FEB. 2015
			DWN BY:
			M.R.2
			PLATE:
			20 OF 31

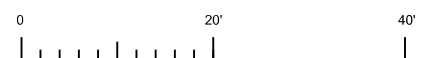


GRAPHIC SCALES

HORIZONTAL



VERTICAL



NOTE:

1. SEE PLATE 01 FOR GENERAL PROJECT INFORMATION.



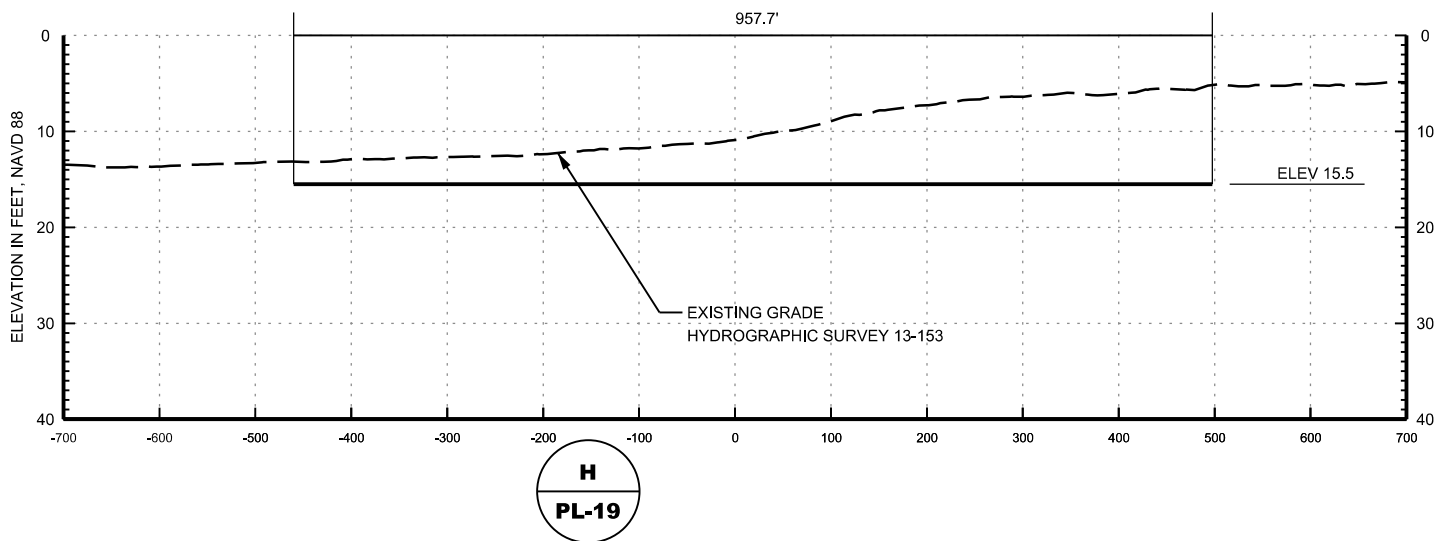
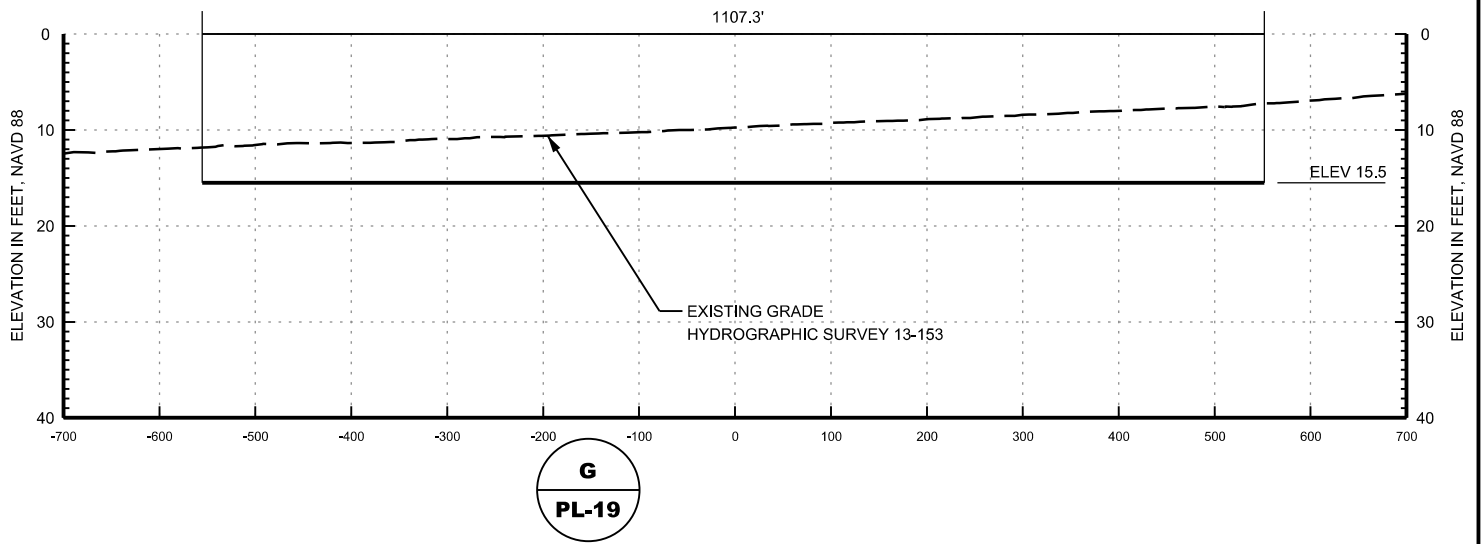
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SARASOTA COUNTY, FLORIDA
LIDO KEY BEACH EROSION CONTROL PROJECT
BORROW AREA C - CROSS SECTIONS

DATE	APPROVED	REVISION	DATE:
2/26/15	J.W.L.		FEB. 2015
			DWN BY:
			M.R.2
			PLATE:
			21 OF 31



NOTE:

1. SEE PLATE 01 FOR GENERAL PROJECT INFORMATION.

GRAPHIC SCALES

HORIZONTAL



VERTICAL



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Jacksonville District

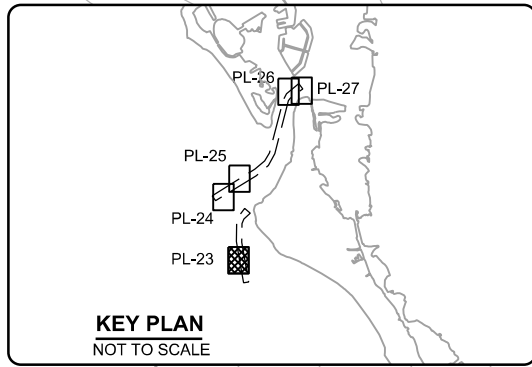
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BEACH EROSION CONTROL PROJECT
SARASOTA COUNTY, FLORIDA
LIDO KEY BEACH EROSION CONTROL PROJECT

BORROW AREA D - CROSS SECTIONS

DATE	APPROVED	REVISION	DATE:
2/26/15	J.W.L.		FEB. 2015
			DWN BY: M.R.2
			PLATE: 22 OF 31



**SEAGRASS
PATCH #13**

BORROW AREA B

**SEAGRASS
PATCH #14**

GULF OF MEXICO

VB-LK1

GRAPHIC SCALE

NOTE:

1. SEE PLATE 01 FOR GENERAL PROJECT INFORMATION.



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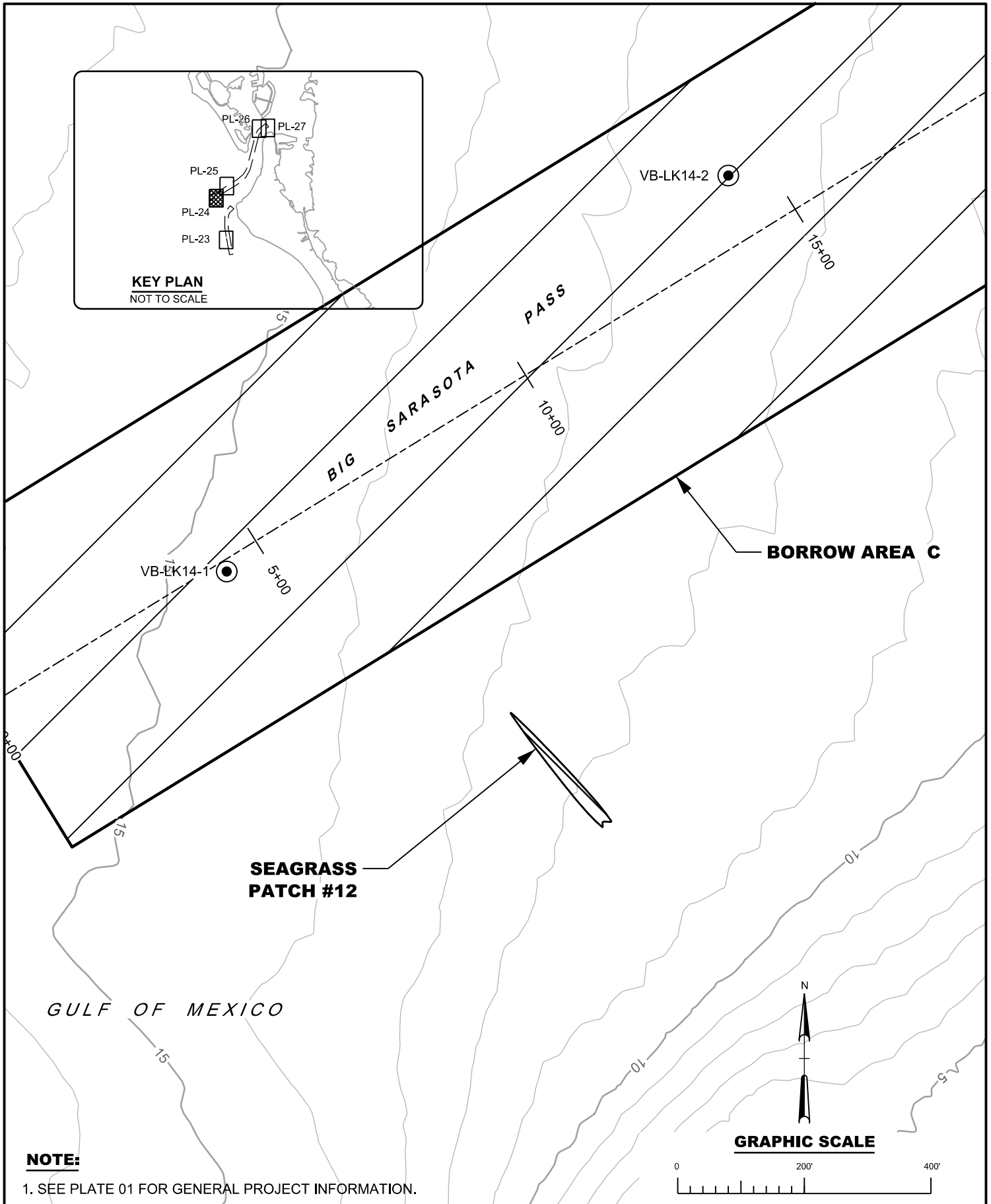
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JACKSONVILLE, FLORIDA

BEACH EROSION CONTROL PROJECT
SARASOTA COUNTY, FLORIDA

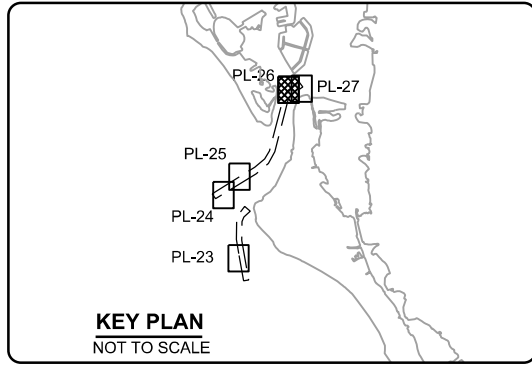
LIDO KEY BEACH EROSION CONTROL PROJECT

SEAGRASS - BORROW AREA B - PLAN VIEW

DATE	APPROVED	REVISION	DATE:
2/26/15	J.W.L.		FEB. 2015
			DWN BY:
			M.R.2
			PLATE:
			23 OF 31



SARASOTA
BAY



**SEAGRASS
PATCH #2**

BORROW AREA C

**SEAGRASS
PATCH #3**

**SEAGRASS
PATCH #4**

**SEAGRASS
PATCH #5**

**SEAGRASS
PATCH #6**

**SEAGRASS
PATCH #7**

PASS

VB-LK14-14

120+00

BIG SARASOTA

115+00

VB-LK14-13

110+00

GRAPHIC SCALE



NOTE:

1. SEE PLATE 01 FOR GENERAL PROJECT INFORMATION.



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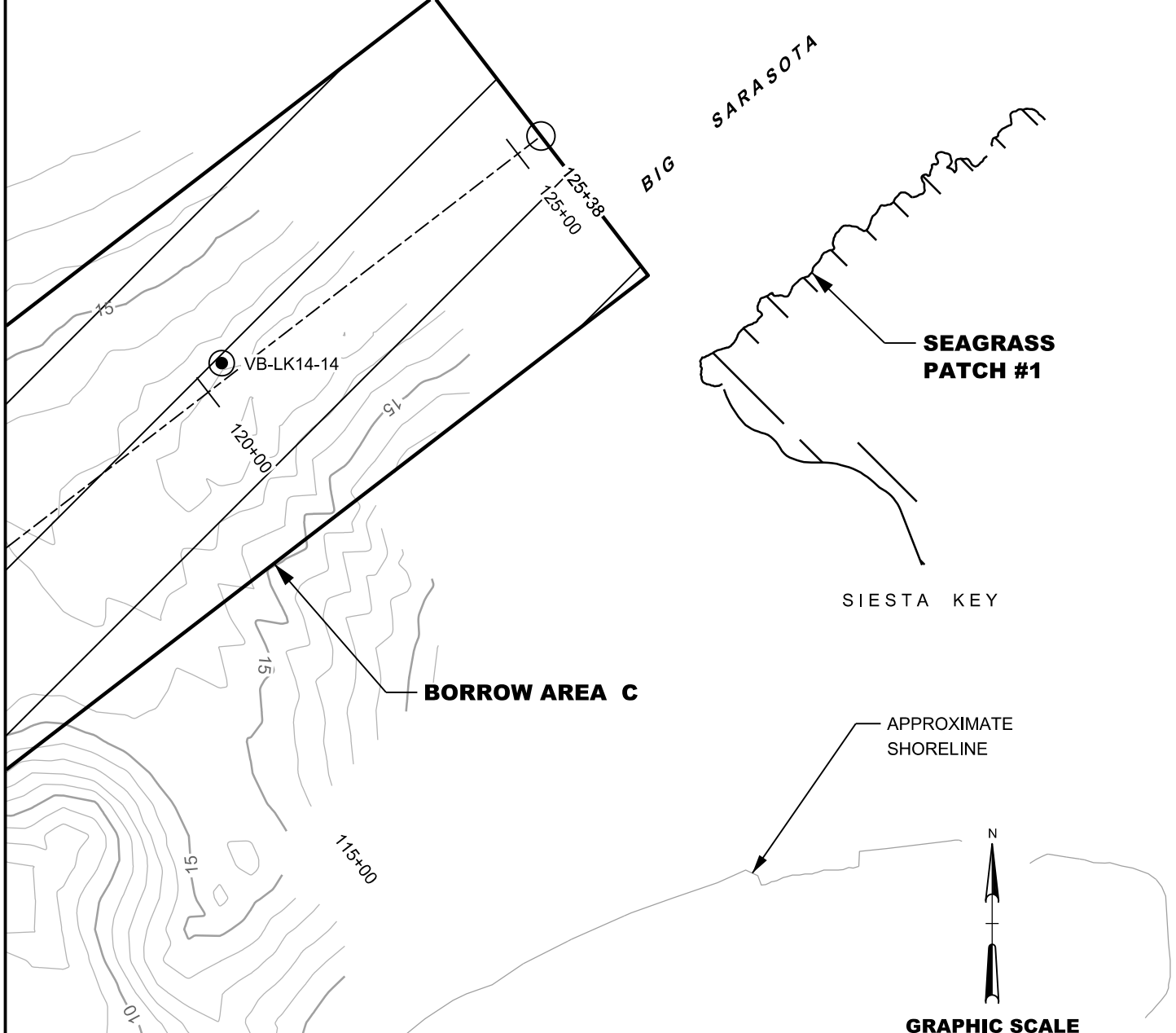
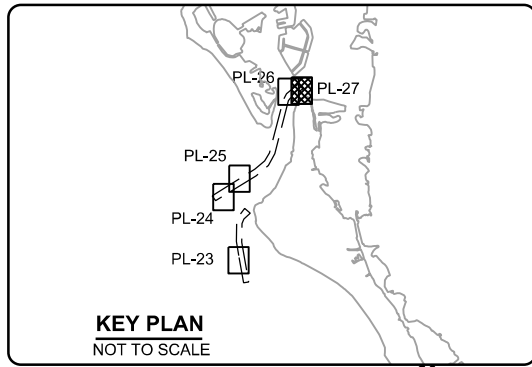
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BEACH EROSION CONTROL PROJECT
SARASOTA COUNTY, FLORIDA

LIDO KEY BEACH EROSION CONTROL PROJECT

SEAGRASS - BORROW AREA C - PLAN VIEW

DATE	APPROVED	REVISION	DATE:
2/26/15	J.W.L.		FEB. 2015
			DWN BY:
			M.R.2
			PLATE:
			26 OF 31



NOTE:

1. SEE PLATE 01 FOR GENERAL PROJECT INFORMATION.



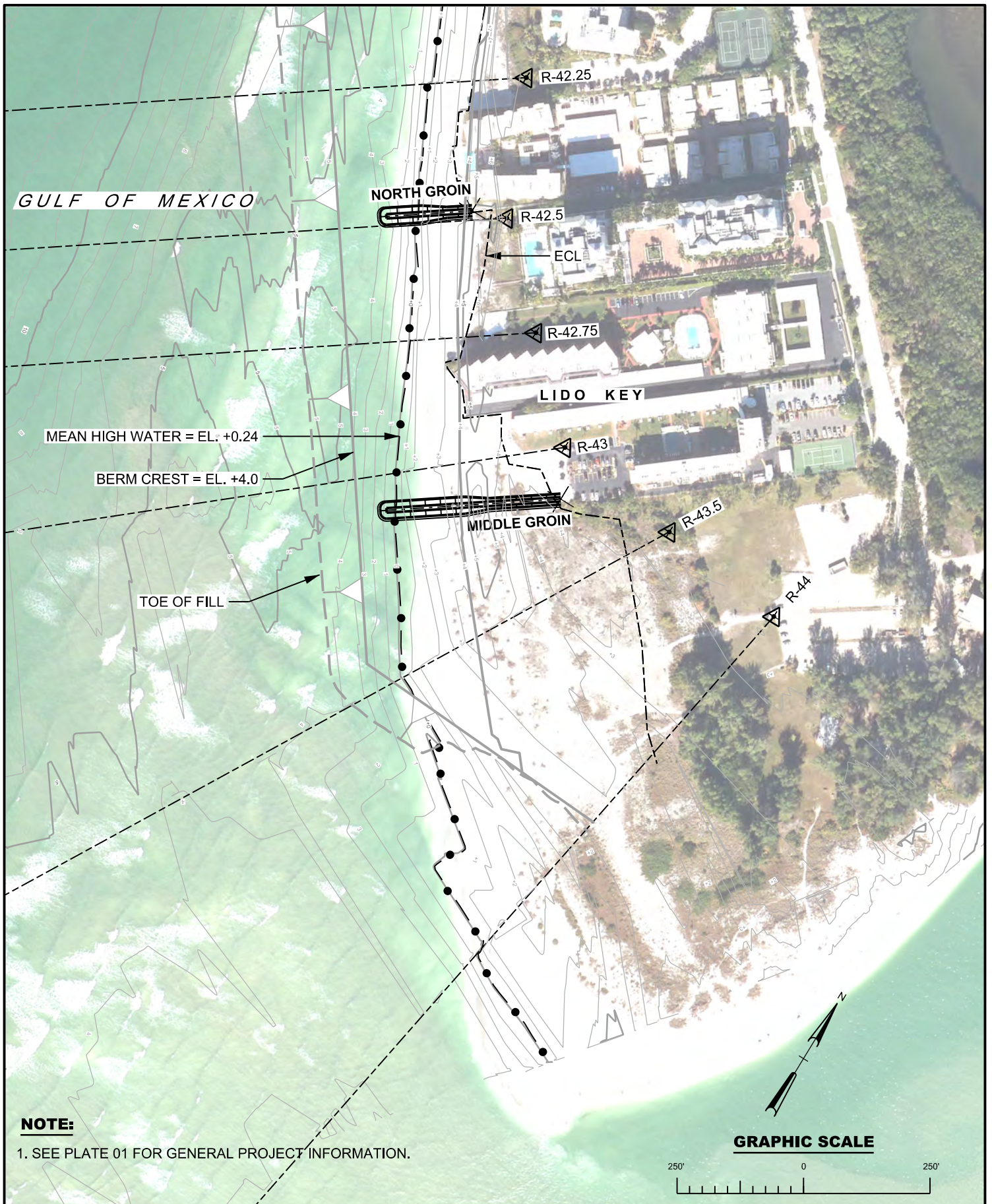
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BEACH EROSION CONTROL PROJECT
SARASOTA COUNTY, FLORIDA
LIDO KEY BEACH EROSION CONTROL PROJECT
SEAGRASS - BORROW AREA C - PLAN VIEW

DATE	APPROVED	REVISION	DATE:
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			DWN BY:
			M.R.2
			PLATE:
			27 OF 31



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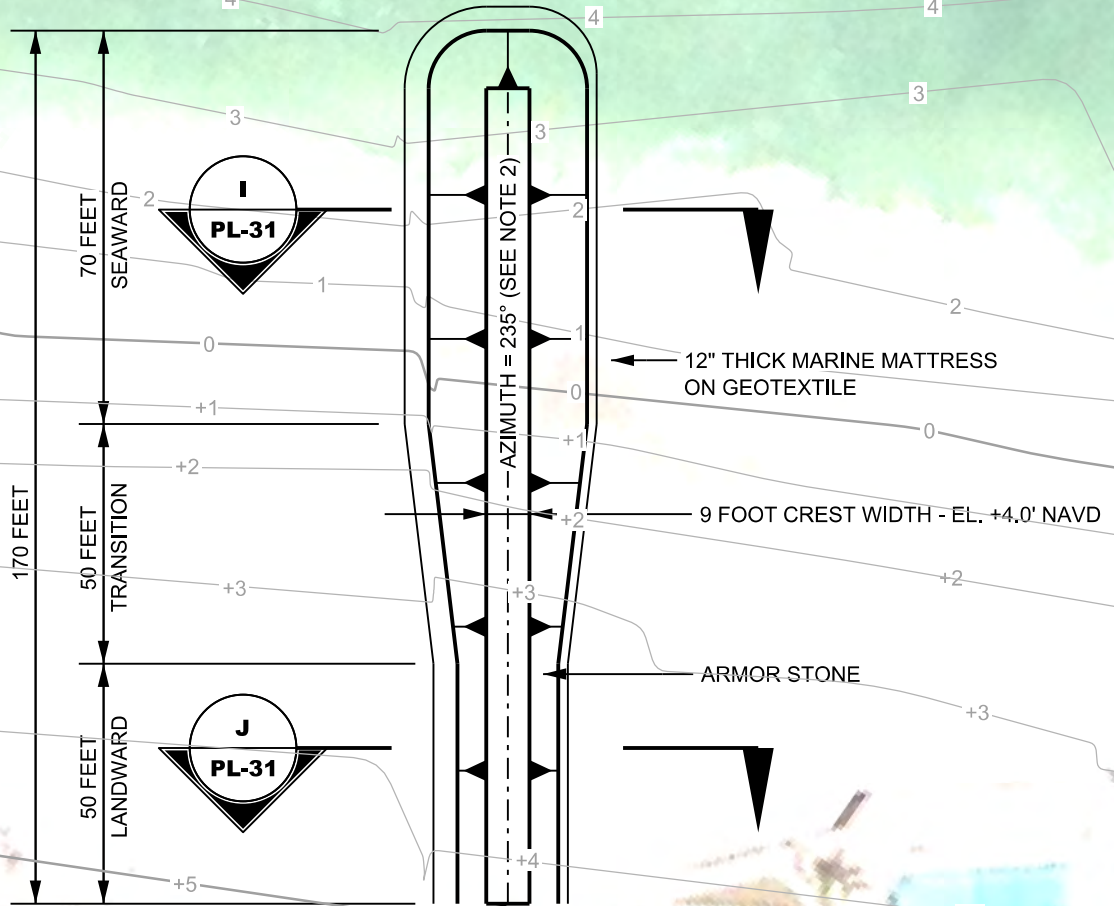
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BEACH EROSION CONTROL PROJECT
SARASOTA COUNTY, FLORIDA
LIDO KEY BEACH EROSION CONTROL PROJECT
GROIN OVERALL

DATE	APPROVED	REVISION	DATE:
2/26/15	J.W.L.		FEB. 2015
			DWN BY:
			M.R.2
			PLATE:
			28 OF 31

GULF OF MEXICO



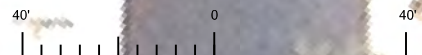
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LIDO KEY

NOTES:

1. SEE PLATE 01 FOR GENERAL PROJECT INFORMATION.
2. AZIMUTH IS CLOCKWISE FROM DUE NORTH.

GRAPHIC SCALE



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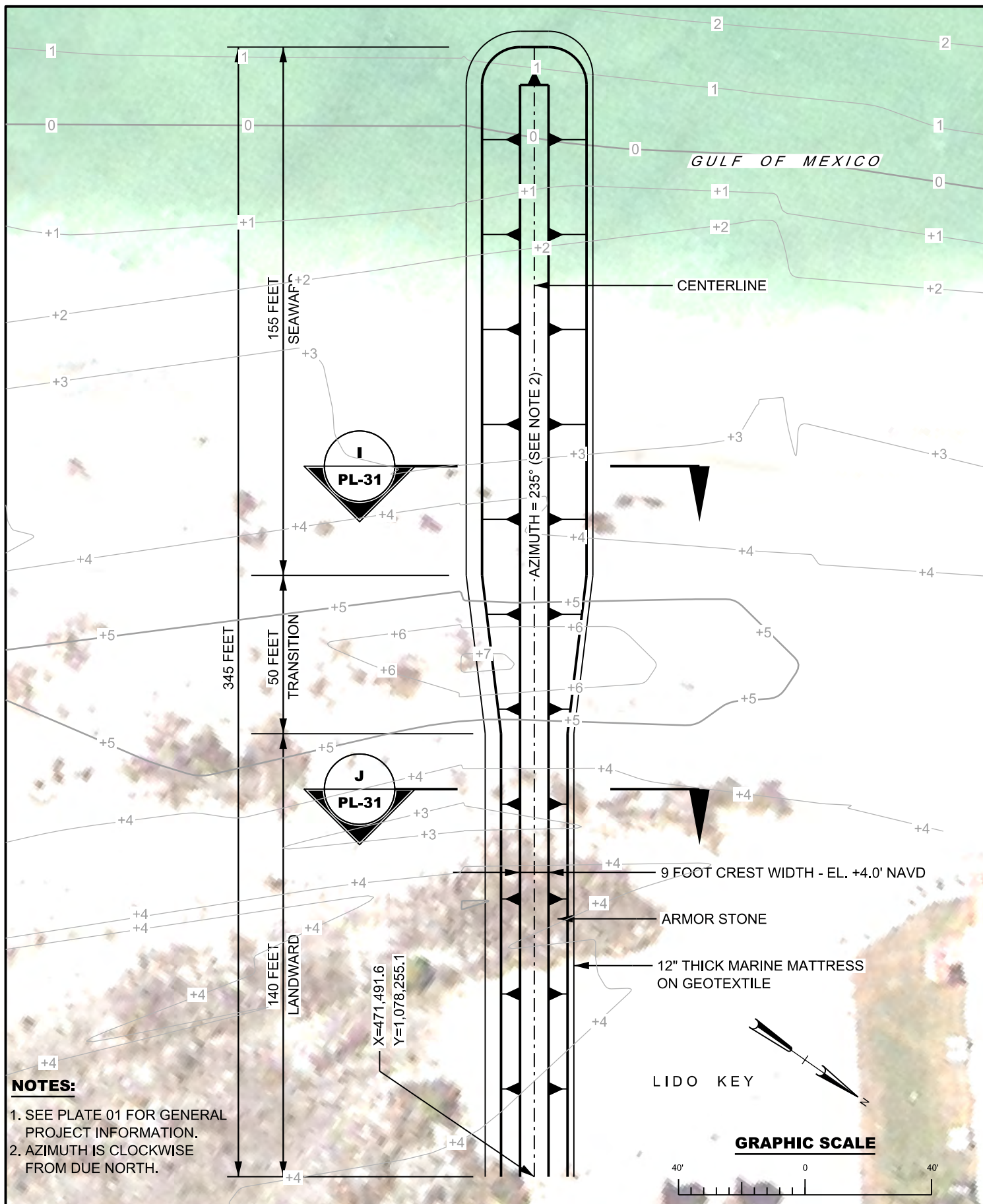
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SARASOTA COUNTY, FLORIDA

LIDO KEY BEACH EROSION CONTROL PROJECT

NORTH GROIN - PLAN VIEW

DATE	APPROVED	REVISION	DATE:
2/26/15	J.W.L.		FEB. 2015
			OWN BY:
			M.R.2
			PLATE:
			29 OF 31



NOTES:

1. SEE PLATE 01 FOR GENERAL PROJECT INFORMATION.
2. AZIMUTH IS CLOCKWISE FROM DUE NORTH.



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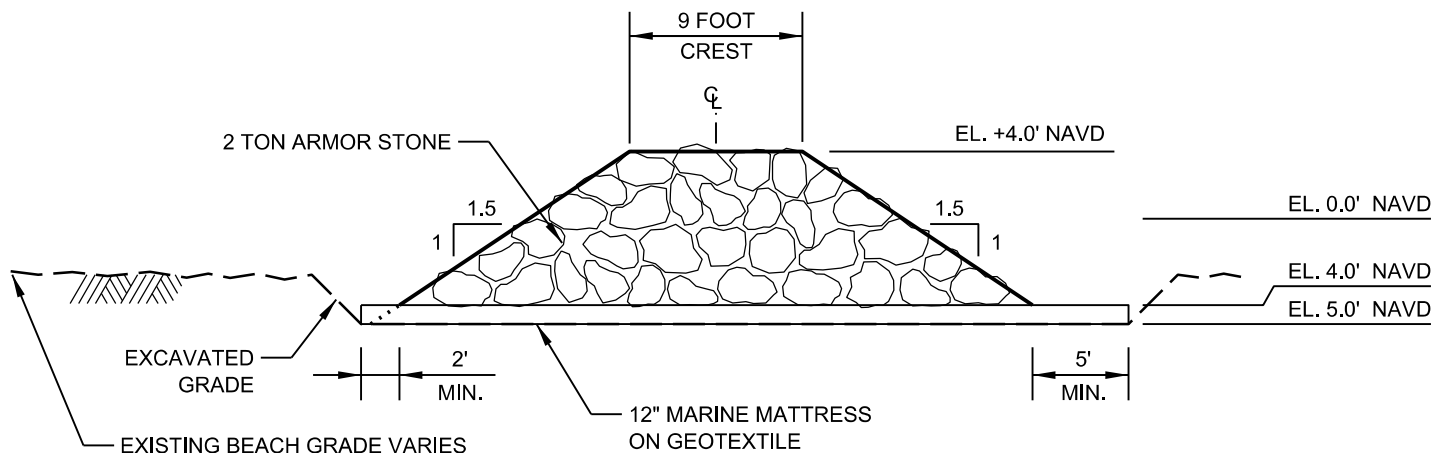
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BEACH EROSION CONTROL PROJECT
SARASOTA COUNTY, FLORIDA

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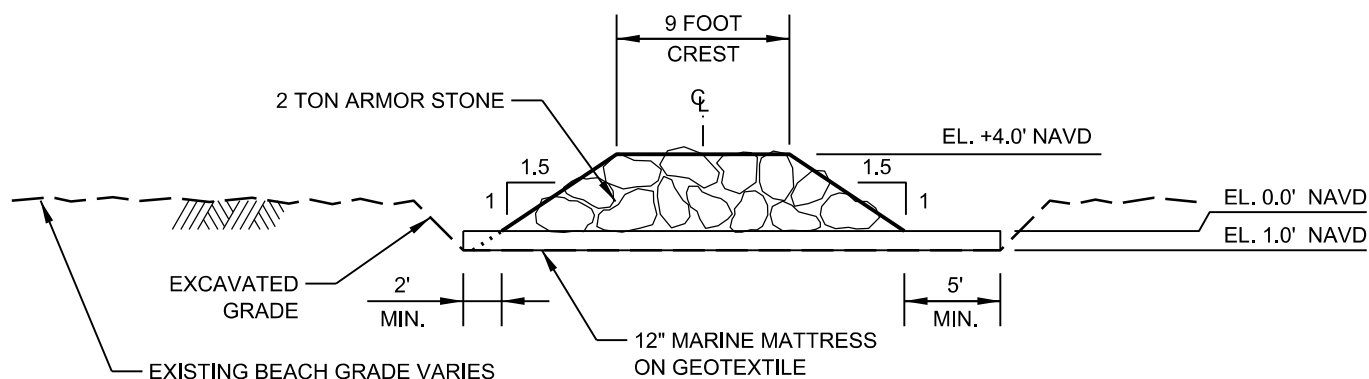
MIDDLE GROIN - PLAN VIEW

DATE	APPROVED	REVISION	DATE:
2/26/15	J.W.L.		FEB. 2015
			DWN BY:
			M.R.2
			PLATE:
			30 OF 31



SEAWARD GROIN SECTION - I

LOOKING LANDWARD



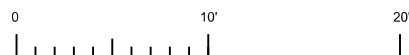
LANDWARD GROIN SECTION - J

LOOKING LANDWARD

NOTES:

1. ARMOR STONE: W=1.5 TO 2.5 TONS WITH 50% GREATER THAN 2.0 TONS, 165 PCF MINIMUM.
2. EXCAVATE AND/OR FILL AS NECESSARY TO PLACE MARINE MATTRESS AND ARMOR STONE TO ACHIEVE THE SPECIFIED CREST ELEVATION.

GRAPHIC SCALE



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GROIN CROSS SECTIONS

DATE	APPROVED	REVISION	DATE:
2/26/15	J.W.L.		FEB. 2015
			DWN BY:
			M.R.2
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			31 OF 31