

DEPARTMENT OF THE ARMY PERMIT

Permittee: GULF COUNTY BOARD OF COUNTY COMMISSIONERS
1000 CECIL G. COSTIN SR. BOULEVARD
PORT ST. JOE, FLORIDA 32456

Permit No: SAJ-2006-04471 (SP-TLW)

Issuing Office: U.S. Army Engineer District, Jacksonville

NOTE: The term "you" and its derivatives, as used in this permit, means the permittee or any future transferee. The term "this office" refers to the appropriate district or division office of the U.S. Army Corps of Engineers (Corps) having jurisdiction over the permitted activity or the appropriate official of that office acting under the authority of the commanding officer.

You are authorized to perform work in accordance with the terms and conditions specified below.

Project Description: The permittee is authorized to perform beach nourishment along the St. Joseph Peninsula. This work will involve placement of up to two million cubic yards of beach compatible sand from offshore borrow area "F". The total direct impacts to jurisdictional waters associated with the project are ± 252.1 acres and total indirect impacts are ± 81.5 acres. The work described above is to be completed in accordance with the 27 pages of drawings (**Attachment #1**) and 12 attachments affixed at the end of this permit instrument.

Project Location: The project is located in Bay County, Florida along 5.2 miles of shoreline on the Gulf side of Cape San Blas (St. Joseph Peninsula) from beach monument R-74.8 to R-105.5. The proposed borrow area is Borrow Area F, located 3 to 4 miles offshore of the peninsula between R-74.8 and R-85.

Directions to site: The project is located immediately adjacent to Highway 30E east of Port St. Joe between Cape San Blas and St. Joe State Park.

Approximate Project Limit Coordinates:

Northern segment:

Latitude 29.7593° North, Longitude -85.4029° West to Latitude 29.7301° North,
Longitude -85.3929° West.

Southern segment:

Latitude 29.7194° North, Longitude -85.3879° West to Latitude 29.6791° North,
Longitude -85.3657° West.

Permit Conditions

General Conditions:

1. The time limit for completing the work authorized ends on 3 October 2022.
If you find that you need more time to complete the authorized activity, submit your request for a time extension to this office for consideration at least one month before the above date is reached.
2. You must maintain the activity authorized by this permit in good condition and in conformance with the terms and conditions of this permit. You are not relieved of this requirement if you abandon the permitted activity, although you may make a good faith transfer to a third party in compliance with General Condition 4 below. Should you wish to cease to maintain the authorized activity or should you desire to abandon it without a good faith transfer, you must obtain a modification of this permit from this office, which may require restoration of the area.
3. If you discover any previously unknown historic or archeological remains while accomplishing the activity authorized by this permit, you must immediately notify this office of what you have found. We will initiate the Federal and State coordination required to determine if the remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.
4. If you sell the property associated with this permit, you must obtain the signature and the mailing address of the new owner in the space provided and forward a copy of the permit to this office to validate the transfer of this authorization.
5. If a conditioned water quality certification has been issued for your project, you must comply with the conditions specified in the certification as special conditions to this permit. For your convenience, a copy of the certification is attached if it contains such conditions. (**Attachment #2**)
6. You must allow representatives from this office to inspect the authorized activity at any time deemed necessary to ensure that it is being or has been accomplished in accordance with the terms and conditions of your permit.

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Special Conditions:

1. Manatee Conditions: The Permittee shall comply with the 2011 "Standard Manatee Conditions for In-Water Work" provided in **Attachment #3** of this permit.

2. Sea Turtle and Smalltooth Sawfish Conditions: The Permittee shall comply with National Marine Fisheries Service's "Sea Turtle and Smalltooth Sawfish Construction Conditions" dated March 23, 2006 and provided in **Attachment #4** of this permit.

3. Cultural Resources/Historic Properties:

a. No structure or work shall adversely affect impact or disturb properties listed in the National Register of Historic Places (NRHP) or those eligible for inclusion in the NRHP.

b. If during the ground disturbing activities and construction work within the permit area, there are archaeological/cultural materials encountered which were not the subject of a previous cultural resources assessment survey (and which shall include, but not be limited to: pottery, modified shell, flora, fauna, human remains, ceramics, stone tools or metal implements, dugout canoes, evidence of structures or any other physical remains that could be associated with Native American cultures or early colonial or American settlement), the Permittee shall immediately stop all work and ground-disturbing activities within a 100-meter diameter of the discovery and notify the Corps within the same business day (8 hours). The Corps shall then notify the Florida State Historic Preservation Officer (SHPO) and the appropriate Tribal Historic Preservation Officer(s) (THPO(s)) to assess the significance of the discovery and devise appropriate actions.

c. Additional cultural resources assessments may be required of the permit area in the case of unanticipated discoveries as referenced in accordance with the above Special Condition; and if deemed necessary by the SHPO, THPO(s), or Corps, in accordance with 36 CFR 800 or 33 CFR 325, Appendix C (5). Based, on the circumstances of the discovery, equity to all parties, and considerations of the public interest, the Corps may modify, suspend or revoke the permit in accordance with 33 CFR Part 325.7. Such activity shall not resume on non-federal lands without written authorization from the SHPO for finds under his or her jurisdiction, and from the Corps.

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d. In the unlikely event that unmarked human remains are identified on non-federal lands, they will be treated in accordance with Section 872.05 Florida Statutes. All work and ground disturbing activities within a 100-meter diameter of the unmarked human remains shall immediately cease and the Permittee shall immediately notify the medical examiner, Corps, and State Archeologist within the same business day (8-hours). The Corps shall then notify the appropriate SHPO and THPO(s). Based, on the circumstances of the discovery, equity to all parties, and considerations of the public interest, the Corps may modify, suspend or revoke the permit in accordance with 33 CFR Part 325.7. Such activity shall not resume without written authorization from the State Archeologist and from the Corps.

4. Endangered Species: This Corps permit does not authorize you to take an endangered species, in particular the threatened loggerhead sea turtle (*Caretta caretta*), endangered green sea turtle (*Chelonia mydas*), endangered leatherback sea turtle (*Dermochelys coriacea*), endangered Kemp's ridley sea turtle (*Lepidochelys kempii*), endangered hawksbill sea turtle (*Eretmochelys imbricata*), threatened Gulf sturgeon (*Acipenser oxyrinchus desotoi*), endangered Choctawhatchee beach mouse, and threatened Piping plover (*Charadrius melodus*) and Red Knot (*Calidris canutus rufa*). In order to legally take a listed species, you must have separate authorization under the ESA (e.g., an ESA section 10 permit, or a Biological Opinion under ESA section 7, with "incidental take" provisions with which you must comply). The enclosed U.S. Fish and Wildlife Service (FWS) Biological Opinion (**Attachment #5**) and National Marine Fisheries Service (NMFS) Biological Opinion (**Attachment #6**) contain mandatory terms and conditions to implement the reasonable and prudent measures that are associated with "incidental take" that are also specified in the Biological Opinions. Your authorization under this Corps permit is conditional upon your compliance with all of the mandatory terms and conditions associated with incidental take of the attached Biological Opinions, which terms and conditions are incorporated by reference in this permit. Failure to comply with the terms and conditions associated with incidental take of the Biological Opinions, where a take of the listed species occurs, would constitute an unauthorized take, and it would also constitute non-compliance with your Corps permit. However, the FWS and NMFS are the appropriate authority to determine compliance with the terms and conditions of its Biological Opinion, and with the ESA. For further clarification on this point, you should contact the FWS and/or NMFS.

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5. Sediment Quality: The Permittee shall comply with the attached Sediment Quality Assurance/Quality Control Plan (**Attachment #7**). Any deviations from this plan will require review and approval by the Corps prior to implementation.

6. Clean Fill: The permittee shall use only clean fill material for this project. Beach compatible sand will be obtained from the authorized offshore borrow areas, with a maximum silt content of less than 5%, a maximum shell content of less than 4%, and a Munsell color value of 6 or lighter.

7. Regulatory Agency Changes: Should any other regulatory agency require changes to the work authorized or obligated by this permit, the Permittee is advised that a modification to this permit instrument is required prior to initiation of those changes. It is the Permittee's responsibility to request a modification of this permit from the Panama City Regulatory Office.

8. As-Built: Within 60 days of completion of the authorized work for each nourishment event, the Permittee shall submit as-built drawings of the authorized work and a completed As-Built Certification Form (**Attachment #8**) to the Corps. The drawings shall be signed and sealed by a registered professional engineer and include the following:

- a. A plan view drawing of the location of the authorized work footprint (as shown on the permit drawings) with an overlay of the work as constructed in the same scale as the attached permit drawings (8½-inch by 11-inch). The drawing should show all fill areas.
- b. List any deviations between the work authorized by this permit and the work as constructed. In the event that the completed work deviates, in any manner, from the authorized work, describe on the As-Built Certification Form the deviations between the work authorized by this permit and the work as constructed. Clearly indicate on the as-built drawings any deviations that have been listed. Please note that the depiction and/or description of any deviations on the drawings and/or As-Built Certification Form does not constitute approval of any deviations by the U.S. Army Corps of Engineers.
- c. The Department of the Army Permit number.
- d. Include pre- and post-construction aerial photographs of the project site, if available.

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9. Reporting: The Permittee shall ensure all reports, notifications, documentation and correspondence required by the general or special conditions of this Department of the Army (DA) permit are submitted to the Corps at the following email address: sajdredgenotice@usace.army.mil. Requests for documents, forms or information should also be submitted to the Corps at this email address. The Permittee shall reference this DA permit number, SAJ-2006-04471 (SP-TLW), and include the topic in the subject line of the email and on all submittals.

10. Deflector Device Submittal: No dredging shall be performed by a hopper dredge without the inclusion of an approved rigid sea turtle deflector device. The Permittee shall ensure that drawings of the proposed sea turtle deflector device and the Hopper Dredge Deflector Device Checklist form (**Attachment #9**) are complete and all required documentation submitted to the Corps, at least 30 days prior to initiating the authorized work. The Permittee shall not commence hopper dredging until approval of the sea turtle deflector device has been granted by the Corps. A copy of the approved drawings, calculations and signed Hopper Dredge Deflector Device Checklist form shall be available on the vessel during dredging operations.

11. Pre-Dredging Inspection Submittal: The Permittee shall submit the completed Hopper Dredge Pre-Dredge Inspection Checklist form (**Attachment #10**) to the Corps, at least 5 days prior to initiating the authorized work.

12. Dredging Quality Management: Dredging and dredged material disposal and monitoring of dredging projects using the Dredging Quality Management (DQM) system shall be implemented for this DA permit. The Permittee shall ensure that each hopper dredge assigned to the work authorized by this DA permit is equipped with DQM, previously known as 'Silent Inspector', for hopper dredge monitoring. The Permittee's DQM system must have been certified by the DQM Support Team within one calendar year prior to the initiation of the dredging/disposal. Questions regarding certification should be addressed to the DQM Support Center at 251-690-3011. Additional information about the DQM System can be found at <http://dqm.usace.army.mil>. The Permittee is responsible for insuring that the DQM system is operational throughout the dredging and disposal project and that project data are submitted to the DQM National Support Center in accordance with the specifications provided at the aforementioned website. The data collected by the DQM system shall, upon request, be made available to the Regulatory Division of the U.S. Army Corps of Engineers - Jacksonville District.

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13. Commencement Notification: Within 3 days from the date of initiating the authorized work, the Permittee shall provide to the Corps, the completed Hopper Dredge Startup Inspection Checklist form (**Attachment #11**) with a written notification of the date of commencement of work authorized by this DA permit. An inspection of the hopper dredge will be scheduled and performed by the Corps after receipt of the notification of commencement.

14. Biological Opinion: Hopper dredging has been evaluated for this project under the National Marine Fisheries Service (NMFS) Biological Opinion (BO), dated June 30, 2017 (**attached**), and its references. The permittee is responsible for complying with the BO. The permittee shall implement all reasonable and prudent measures identified in the BO. Authorization under this DA permit is conditional upon compliance with all of the mandatory terms and conditions associated with the BO, which terms and conditions are incorporated by reference in this DA permit. Failure to comply with the terms and conditions associated with the BO, where a take of the listed species occurs, would constitute non-compliance with this DA permit. Failure to comply with this DA permit will be the basis for suspension and revocation of this DA permit and may be the basis for other enforcement action. Where the terms and conditions of the BO differ from the Special Conditions of this DA permit, the Special Conditions of this DA permit will take precedence as the more stringent condition.

15. Incidental Take Statement: This DA permit does not authorize the Permittee to take a threatened or endangered species, in particular sea turtles, sturgeon, whales or any other threatened or endangered species. The BO includes an Incidental Take Statement (ITS). The Permittee understands and agrees that, even where it is in full compliance with the terms and conditions of the BO ITS and this DA permit, incidental take by the Permittee or other hopper dredging operations within the project area may result in suspension or modification of this DA permit by the Corps. The amount of incidental take that will trigger suspension, and the need for any such suspension, shall be determined at the discretion of the Corps. The Permittee understands and agrees on behalf of itself, its agents, contractors, and other representatives, that no claim, legal action in equity or for damages, adjustment, or other entitlement against the Corps shall arise as a result of such suspension or related action.

16. Endangered Species Observers: During dredging operations, NMFS approved endangered species observers (Observer) shall be aboard each hopper dredge to monitor for the presence of endangered species including sea turtles, sturgeon, whales and manatees. Observers shall perform their observations 24hr/day and every day during dredging operation.

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a. During transit to and from the disposal area, the Observer shall monitor from the bridge during daylight hours for the presence of endangered species, especially the Northern right whale, during the period December through March.

b. During dredging operations, while dragheads are submerged, the Observer shall continuously monitor the inflow and/or overflow screening for turtles and/or turtle parts and sturgeon and/or sturgeon parts.

c. Upon completion of each load cycle, dragheads should be monitored as the draghead is lifted from the sea surface and is placed on the saddle in order to assure that sea turtles that may be impinged within the draghead are counted and recorded. The Observer shall physically inspect dragheads and inflow and overflow screening/boxes for threatened and endangered species take. The Observer shall identify, count and record sea turtle or sturgeon parts during the inspection of the inflow and overflow screening/boxes. All debris shall be removed from the screening/boxes after the inspection is complete so as not to impede the functioning of the screens during the next load cycle.

d. The Observer shall maintain a log detailing all incidents, including sightings, collisions with, injuries to, or killing of endangered species during dredging operations. The data shall be recorded daily on the Observer forms which are located at the following web site under the heading "Turtle Information": <http://el.erdc.usace.army.mil/seaturtles>. If the permittee is unable to view the Observer forms at this website the permittee shall contact the Corps to receive a copy of the Observer forms. Completed observer forms shall be submitted to the Corps at the end of each day as identified in the reporting special condition. A Summary Report of the above incidents and sightings shall be submitted to the Corps within 15 days of project completion.

17. Observer Equipment: The Permittee shall provide a digital camera, with an image resolution capability of at least 300 dpi, in order to photographically report all incidental takes, without regard to species, during dredging operations. Immediately following the incidental take of any threatened or endangered species, images shall be submitted to the Corps in a .JPG or .TIF format and shall accompany incidental take forms. The nature of findings shall be fully described in the incidental take forms including references to photographs.

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18. Incidental Take: The Permittee shall immediately cease all hopper dredging operations and notify the Corps upon discovery of an incidental take of a sea turtle or sturgeon. The Permittee shall not resume hopper dredging until notified by the District Engineer, or his designee. The Sea Turtle Incidental Take Data form which is located at the following web site under the heading "Turtle Information" Observer Forms: <http://el.erdc.usace.army.mil/seaturtles> will be filled out by the Observer and shall be submitted to the Corps with photographic documentation within 6 hours of the take event.

19. Sea Turtle Trawling: Sea turtle trawling shall be conducted during all hopper dredging and continue until the end of dredging or as directed by the Corps. Trawling shall be conducted in accordance with the Sea Turtle Trawling requirements (**Attachment #12**). The results of each trawl shall be recorded on the Sea Turtle Trawling Form, which is located at the following website under the heading "Observer Forms:" <http://dgm.usace.army.mil/odess/#/download> If you are unable to view the Trawling Report form at this website you must contact the Corps to receive a copy of the form. Interim trawling reports shall be submitted to the Corps by the end of each day. A final trawling report shall be prepared and submitted to the Corps after the completion of all trawling efforts. The final trawling report shall summarize the results of the trawling including total trawling times, number of trawls and number of captures. Any turtles captured during trawling shall be immediately released, per the sea turtle trawling requirements.

Further Information:

1. Congressional Authorities: You have been authorized to undertake the activity described above pursuant to:

(X) Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403)

(X) Section 404 of the Clean Water Act (33 U.S.C. 1344)

() Section 103 of the Marine Protection, Research and Sanctuaries Act of 1972 (33 U.S.C. 1413)

2. Limits of this authorization.

a. This permit does not obviate the need to obtain other Federal, State, or local authorizations required by law.

b. This permit does not grant any property rights or exclusive privileges.

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c. This permit does not authorize any injury to the property or rights of others.

d. This permit does not authorize interference with any existing or proposed Federal projects.

3. Limits of Federal Liability. In issuing this permit, the Federal Government does not assume any liability for the following:

a. Damages to the permitted project or uses thereof as a result of other permitted or unpermitted activities or from natural causes.

b. Damages to the permitted project or uses thereof as a result of current or future activities undertaken by or on behalf of the United States in the public interest.

c. Damages to persons, property, or to other permitted or unpermitted activities or structures caused by the activity authorized by this permit.

d. Design or construction deficiencies associated with the permitted work.

e. Damage claims associated with any future modification, suspension, or revocation of this permit.

4. Reliance on Applicant's Data: The determination of this office that issuance of this permit is not contrary to the public interest was made in reliance on the information you provided.

5. Reevaluation of Permit Decision: This office may reevaluate its decision on this permit at any time the circumstances warrant. Circumstances that could require a reevaluation include, but are not limited to, the following:

a. You fail to comply with the terms and conditions of this permit.

b. The information provided by you in support of your permit application proves to have been false, incomplete, or inaccurate (see 4 above).

c. Significant new information surfaces which this office did not consider in reaching the original public interest decision.

Such a reevaluation may result in a determination that it is appropriate to use the suspension, modification, and revocation procedures contained in 33 CFR 325.7 or

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enforcement procedures such as those contained in 33 CFR 326.4 and 326.5. The referenced enforcement procedures provide for the issuance of an administrative order requiring you comply with the terms and conditions of your permit and for the initiation of legal action where appropriate. You will be required to pay for any corrective measures ordered by this office, and if you fail to comply with such directive, this office may in certain situations (such as those specified in 33 CFR 209.170) accomplish the corrective measures by contract or otherwise and bill you for the cost.

6. Extensions: General Condition 1 establishes a time limit for the completion of the activity authorized by this permit. Unless there are circumstances requiring either a prompt completion of the authorized activity or a reevaluation of the public interest decision, the Corps will normally give favorable consideration to a request for an extension of this time limit.

Your signature below, as permittee, indicates that you accept and agree to comply with the terms and conditions of this permit.

Donald Butler
(PERMITTEE)

9/21/2017
(DATE)

DONALD BUTLER
(PERMITTEE NAME-PRINTED)

This permit becomes effective when the Federal official, designated to act for the Secretary of the Army, has signed below.

Andrew A. Kirk

Digitally signed by
KIZLAUSKAS.ANDREW.A.1368129140
DN: c=US, o=U.S. Government, ou=DoD,
ou=PKI, ou=USA,
cn=KIZLAUSKAS.ANDREW.A.1368129140
Date: 2017.10.03 16:51:19 -05'00'

(DISTRICT ENGINEER)

3 October 2017
(DATE)

For

Jason A. Kirk, P.E.
Colonel, U S. Army
District Commander

PERMIT NUMBER: SAJ-2006-04471

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When the structures or work authorized by this permit are still in existence at the time the property is transferred, the terms and conditions of this permit will continue to be binding on the new owner(s) of the property. To validate the transfer of this permit and the associated liabilities associated with compliance with its terms and conditions, have the transferee sign and date below.

(TRANSFEREE-SIGNATURE)

(DATE)

(NAME-PRINTED)

(ADDRESS)

(CITY, STATE, AND ZIP CODE)

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***Attachments to Department of the Army
Permit Number SAJ-2006-04471***

1. PERMIT DRAWINGS: 27 pages, dated 1 February 2017.
2. WATER QUALITY CERTIFICATION: .Specific Conditions of the water quality permit/certification in accordance with General Condition number 5 on page 2 of this DA permit. 30 pages and Modification Dated July 14, 2017 10 pages.
3. MANATEE CONDITIONS: 2 pages, *Standard Manatee Conditions for In-Water Work – 2011*.
4. SEA TURTLE – SAWFISH CONDITIONS: 1 page, *Sea Turtle and Smalltooth Sawfish Construction Conditions, revised March 23, 2006*.
5. FWS BIOLOGICAL OPINION: 162 pages.
6. NMFS BIOLOGICAL OPINION: 105 pages.
7. SEDIMENT QUALITY ASSURANCE/QUALITY CONTROL PLAN: 14 pages.
8. AS-BUILT CERTIFICATION FORM: 2 pages.
9. HOPPER DREDGE DEFLECTOR DEVICE CHECKLIST: 2 pages.
10. HOPPER DREDGE PRE-DREDGE INSPECTION CHECKLIST: 2 pages.
11. HOPPER DREDGE STARTUP INSPECTION CHECKLIST: 2 pages.
12. SEA TURTLE TRAWLING REQUIREMENTS: 16 pages.

Joint Coastal Permit
Authorization To Use Sovern Submerged Lands
Federal Dredge And Fill Permit

Permit Sketches

ST. JOSEPH PENINSULA BEACH RE-NOURISHMENT & ENVIRONMENTAL ENHANCEMENT PROJECT



Gulf County Board of County Commissioners
1000 Cecil G. Costin, Sr. Boulevard, Port St. Joe, Florida, 32456

PROJECT LOCATION

Sections 25, 36, Township 8S, Range 12W
Sections 1, 12, Township 9S, Range 12W
Sections 6, 7, 18, 19, 20, Township 9S, Range 11W
Gulf County, Florida

Latitude: 29°45'33.41"N to 29°43'48.32"N
29°43'09.95"N to 29°40'44.78"N
Longitude: 85°24'10.52"W to 85°23'34.34"W
85°23'16.52"W to 85°21'56.35"W

Northing: 277,245 to 266,648
262,680 to 248,114
Easting: 1,681,932 to 1,685,092
1,686,621 to 1,693,533

DEP Monuments: R-074.8 To R-085.5 and R-089.6 to R-105.5



543 Harbor Boulevard, Suite 204
Destin, Florida 32541
Certification of Authorization Number 9462
850.654.1555 (voice) • 850.654.0550 (fax)
www.mrd-associates.com

COVER SHEET

St. Joseph Peninsula Beach Re-Nourishment & Environmental Enhancement Project

Gulf County Board of County Commissioners
1000 Cecil G. Costin, Sr. Boulevard, Port St. Joe, Florida, 32456

Michael R. Dombrowski, P.E.
Florida P. E. Number 55255

Date: February 1, 2016

Sheet Rev Date:

PROJECT NUMBER:	SHEET NUMBER:
15-210.22	1

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8	FILL AREA (R-094 TO R-101) - PLAN VIEW
9	FILL AREA (R-101 TO R-105.5) - PLAN VIEW
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543 Harbor Boulevard, Suite 204
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Certification of Authorization Number 9482

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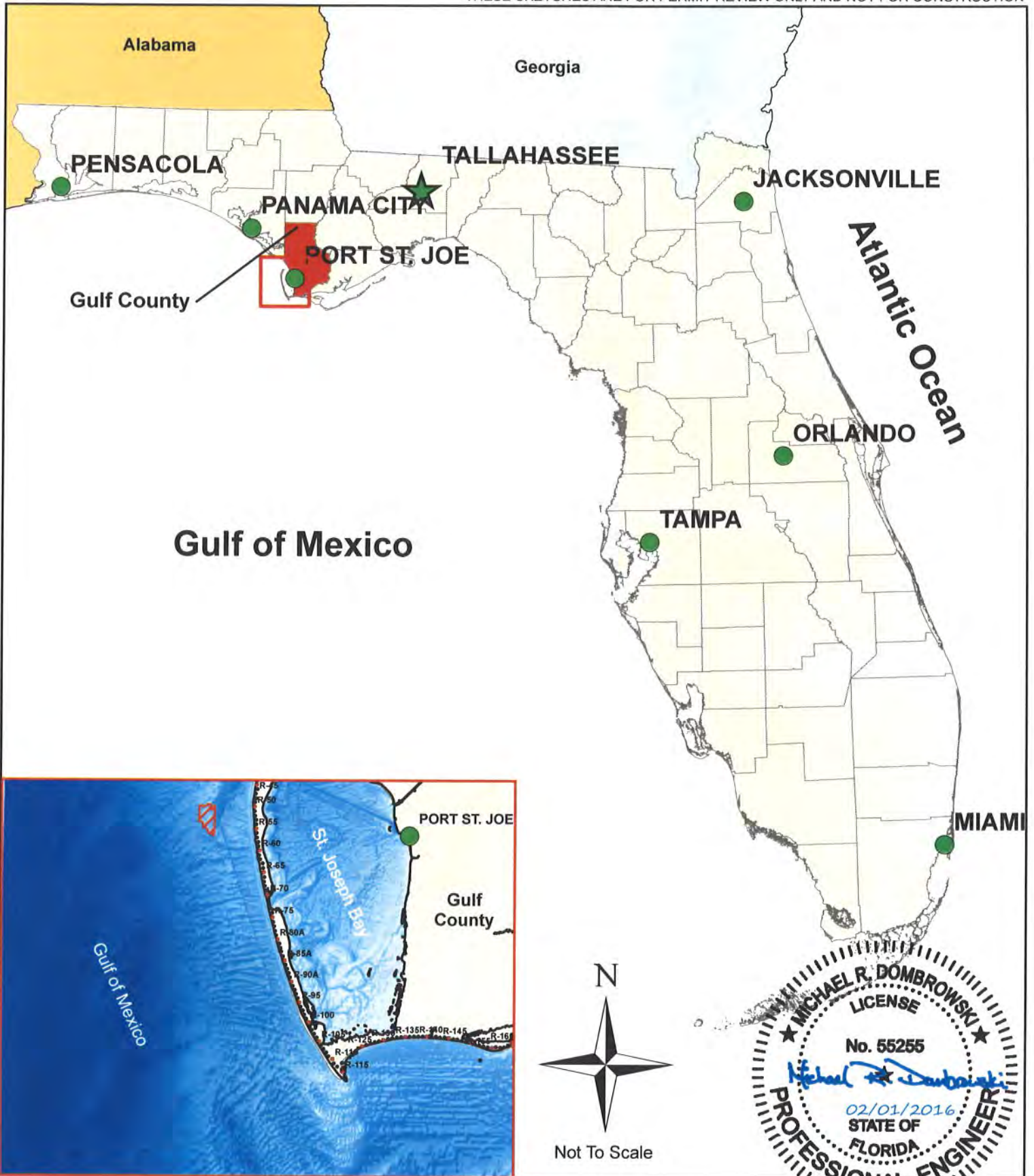
Gulf County Board of County Commissioners
1000 Cecil G. Costin, Sr. Boulevard, Port St. Joe, Florida, 32456

Michael R. Dombrowski, P.E.
Florida P. E. Number 55255

Date: February 1, 2016

Sheet Rev Date: July 22, 2016

PROJECT NUMBER:	SHEET NUMBER:
15-210.22	2



543 Harbor Boulevard, Suite 204
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Certification of Authorization Number 9482
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PROJECT LOCATION MAP

St. Joseph Peninsula Beach Re-Nourishment & Environmental Enhancement Project

Gulf County Board of County Commissioners
1000 Cecil G. Costin, Sr. Boulevard, Port St. Joe, Florida, 32456

Michael R. Dombrowski, P.E.
Florida P. E. Number 55255

Date: February 1, 2016

Sheet Rev Date:

PROJECT NUMBER: 15-210.22	SHEET NUMBER: 3
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N: 266,648
E: 1,685,092
Lat: 29°43'48.32"N
Lon: 85°23'34.34"W

N: 262,680
E: 1,681,932
Lat: 29°43'09.95"N
Lon: 85°23'16.52"W

N: 248,114
E: 1,693,533
Lat: 29°40'44.78"N
Lon: 85°21'56.35"W

William J. Rish
Recreational Park

Excludes
William J. Rish/
Recreational Park
R-089.5

Lighthouse Bayou

**Cape R
San Blas**

Gulf of Mexico



0 2,500 5,000
 Feet
 1 inch = 5,000 Feet

St. Joseph Peninsula Beach Re-Nourishment & Environmental Enhancement Project

Gulf County Board of County Commissioners
1000 Cecil G. Costin, Sr. Boulevard, Port St. Joe, Florida, 32456

Michael R. Dombrowski, P.E.
Florida P. E. Number 55255

Date: February 1, 2016

Sheet Rev Date:

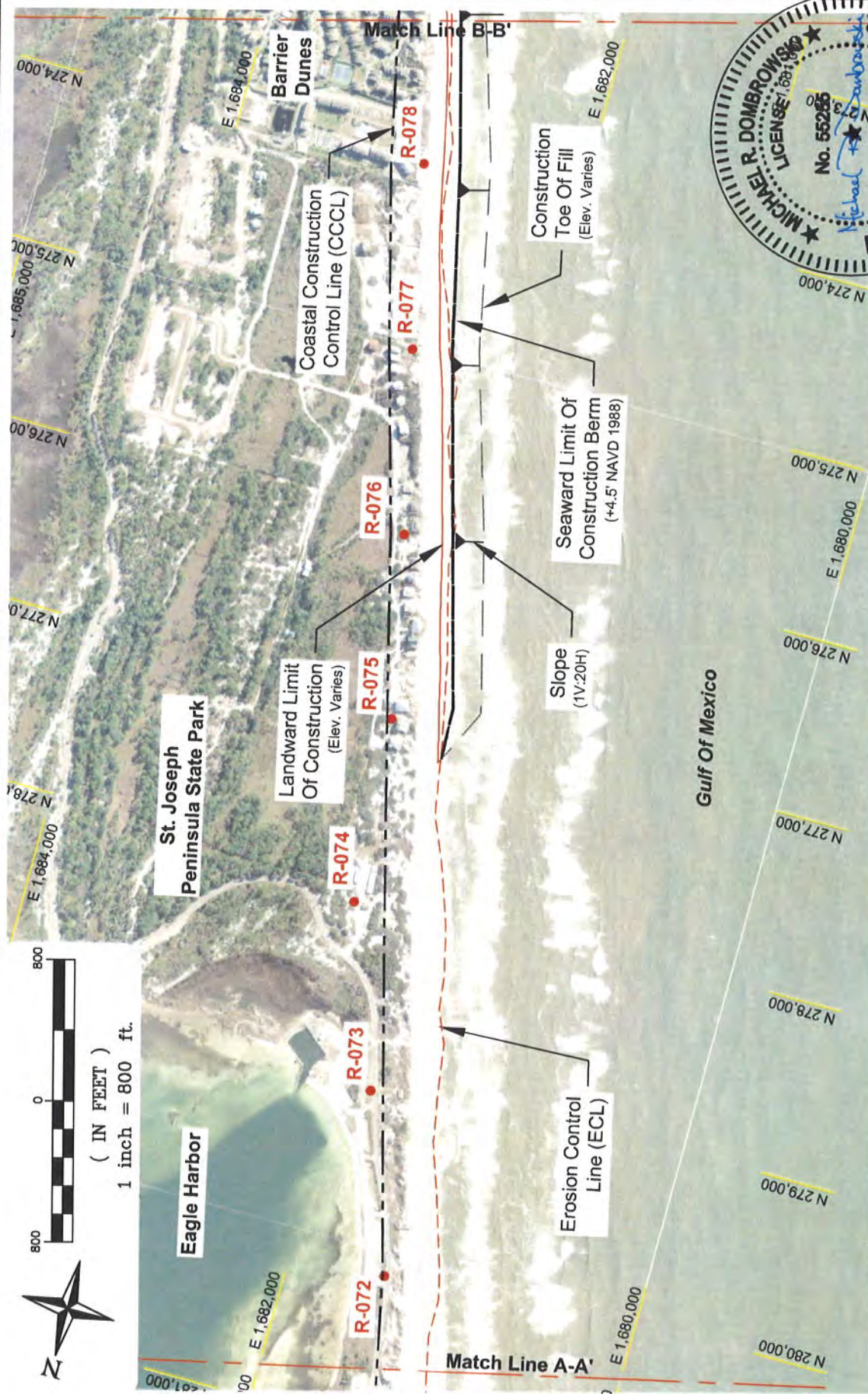
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mrd
mrd associates, inc.
Coastal, Marina & Water Resources Engineers

**543 Harbor Boulevard, Suite 204
Destin, Florida 32541**

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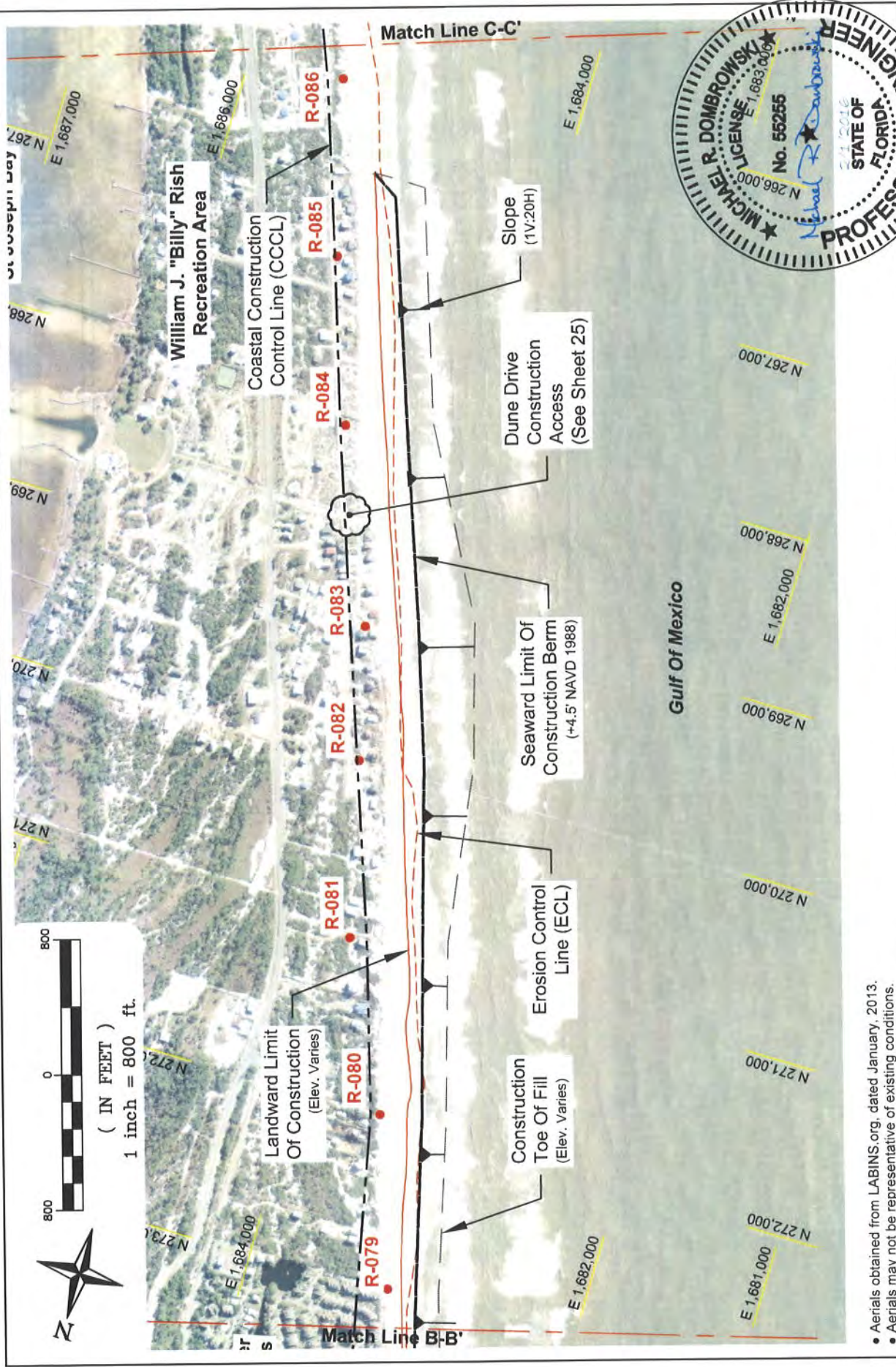
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FILL AREA (R-074.8 TO R-078) - PLAN VIEW
St. Joseph Peninsula Beach Re-Nourishment & Environmental Enhancement Project

Gulf County Board of County Commissioners
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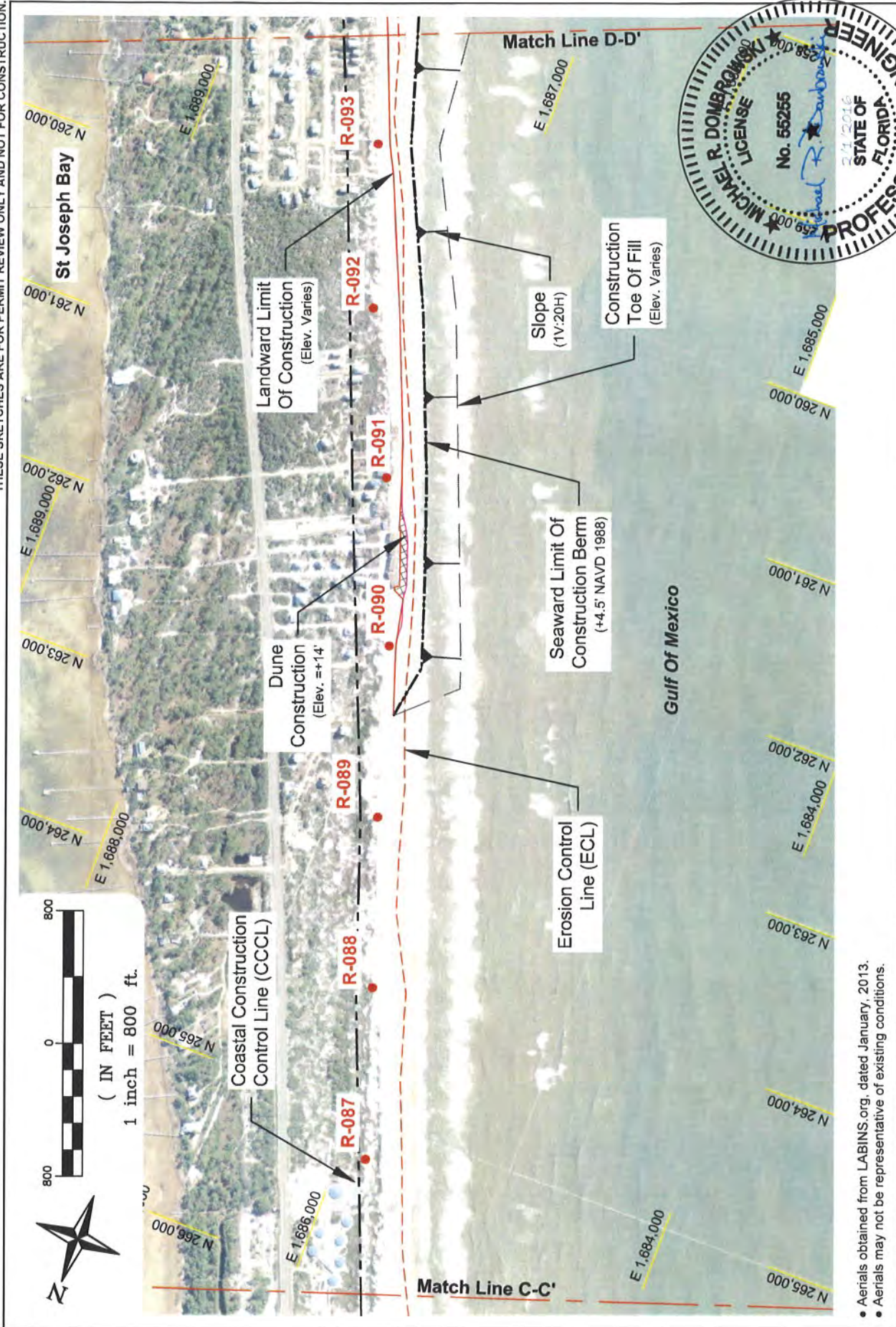
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FILL AREA (R-079 TO R-086) - PLAN VIEW
St. Joseph Peninsula Beach Re-Nourishment & Environmental Enhancement Project

Gulf County Board of County Commissioners
1000 Cecil G. Costin, Sr. Boulevard, Port St. Joe, Florida, 32456

Date: February 1, 2016	Rev Date:
PROJECT NUMBER 15-210.22	SHEET NUMBER 6

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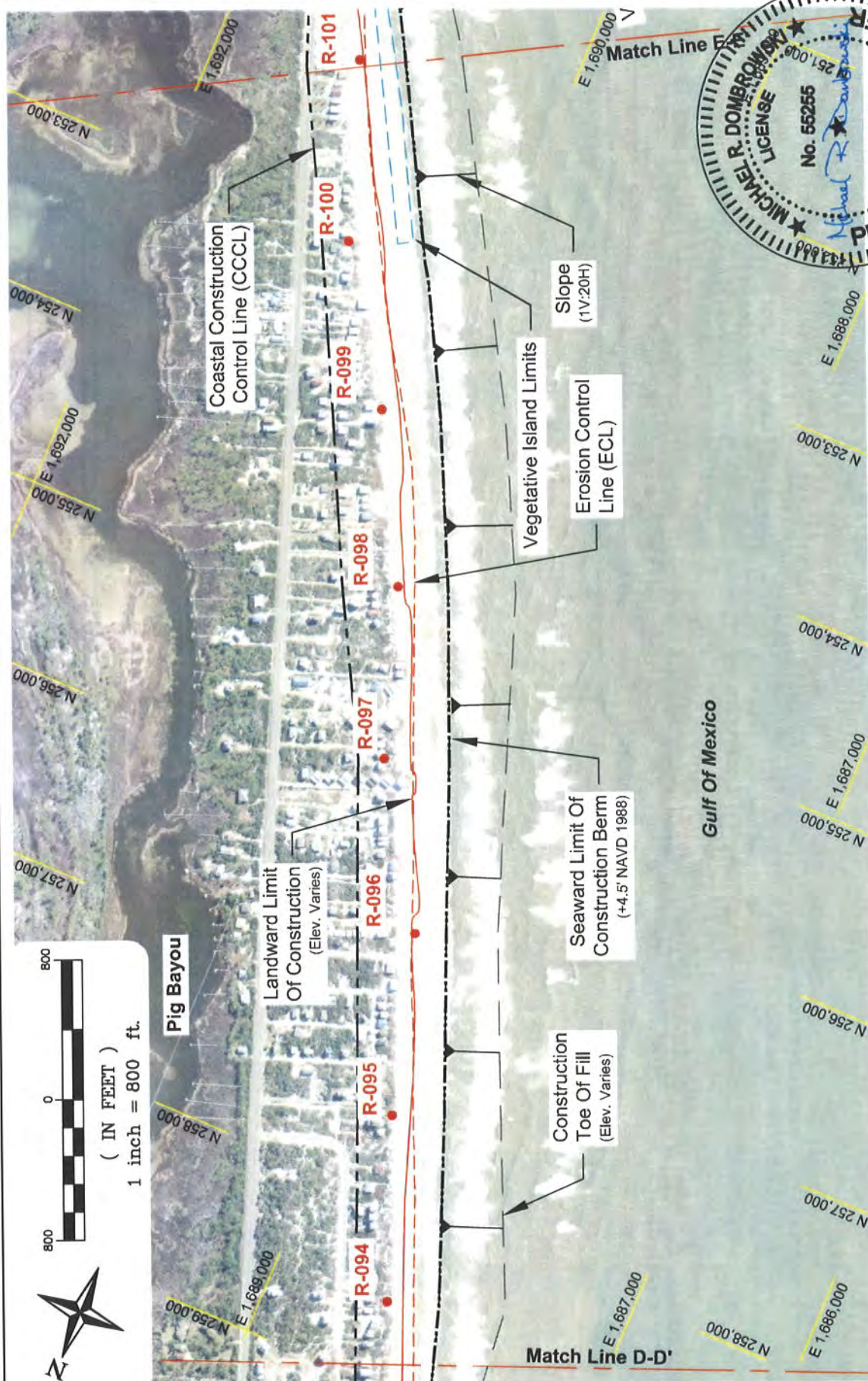
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FILL AREA (R-087 TO R-093) - PLAN VIEW
St. Joseph Peninsula Beach Re-Nourishment & Environmental Enhancement Project

Gulf County Board of County Commissioners
 1000 Cecil G. Costin, Sr. Boulevard, Port St. Joe, Florida, 32456

Rev Date:	PROJECT NUMBER	SHEET NUMBER
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- Aerials obtained from LABINS.org, dated January, 2013.
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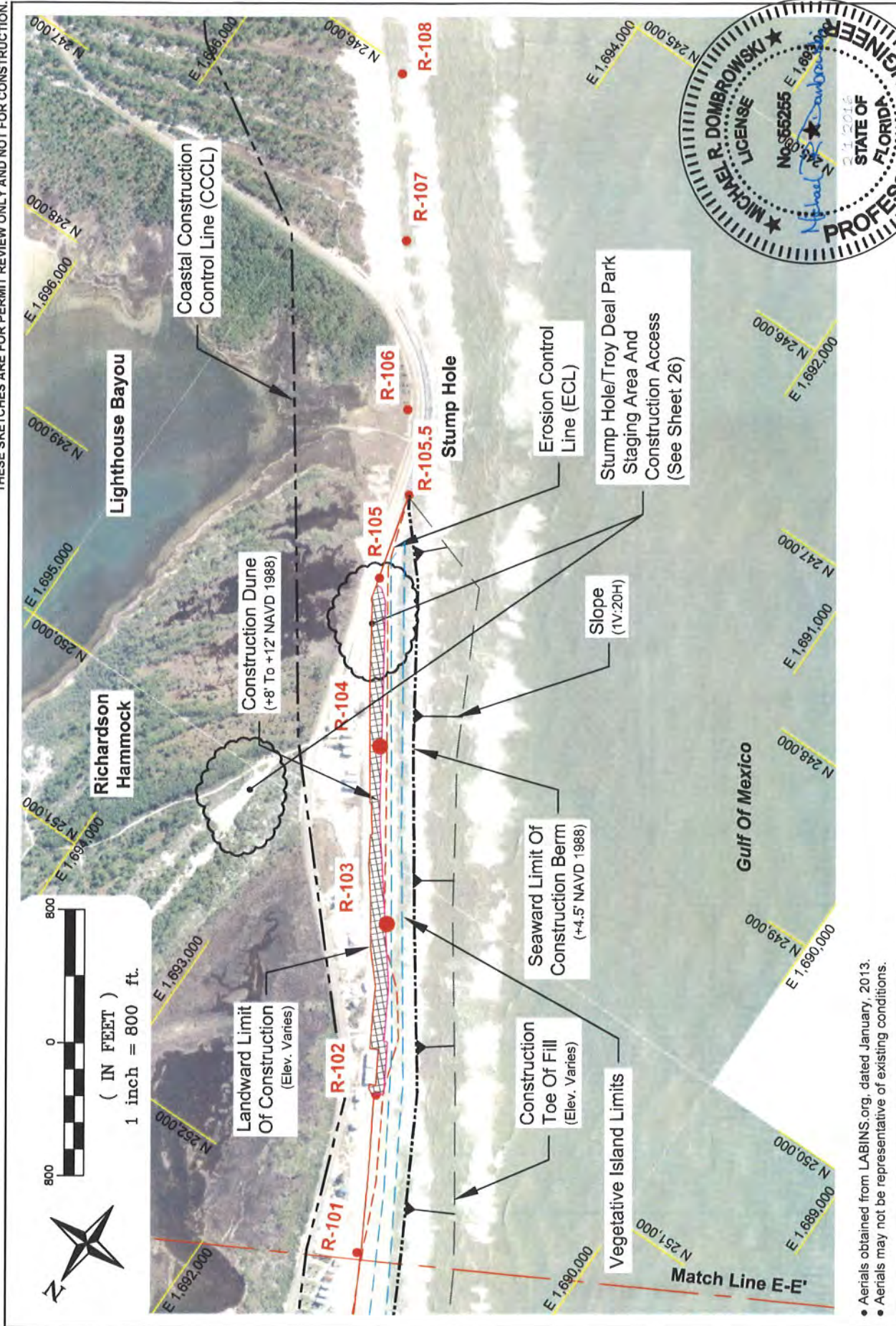
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FILL AREA (R-094 To R-101) - PLAN VIEW

Gulf County Board of County Commissioners
1000 Cecil G. Costin, Sr. Boulevard, Port St. Joe, Florida, 32456

A circular professional engineer seal for Michael R. Dombrowski, State of Florida. The seal features the text "MICHAEL R. DOMBROWSKY" around the top inner edge, "LICENSE" at the bottom, and "STATE OF FLORIDA" on the right. The center contains "No. 55255" and "EXPIRES 12/31/2010". A handwritten signature "Michael R. Dombrowski" is written across the seal.

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- Aerials obtained from LABINS.org, dated January, 2013.
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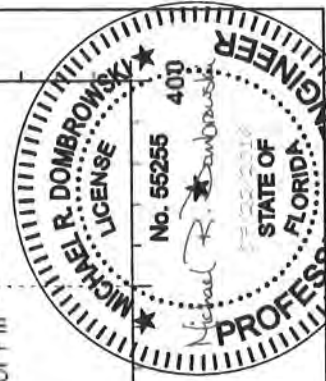
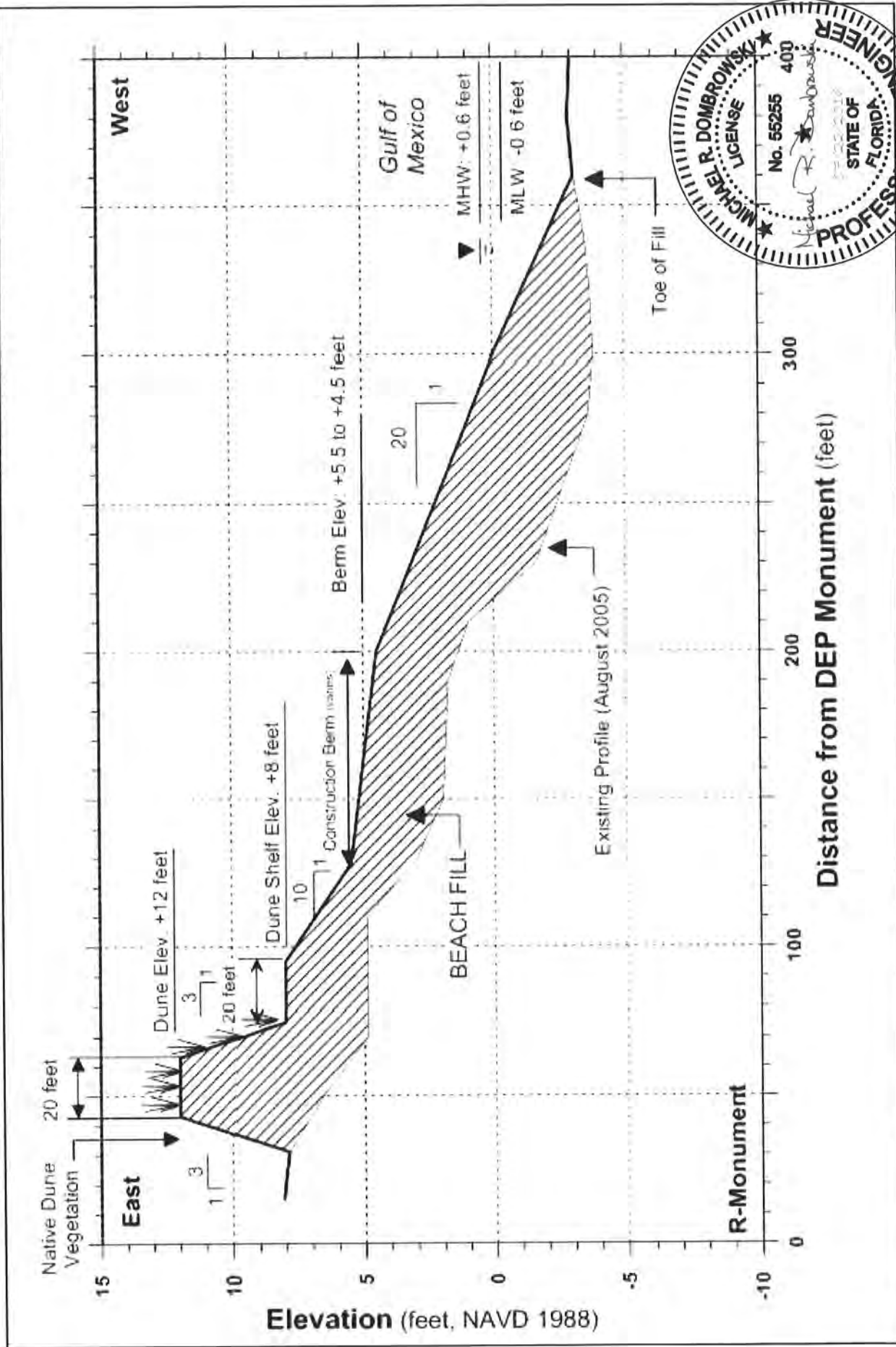
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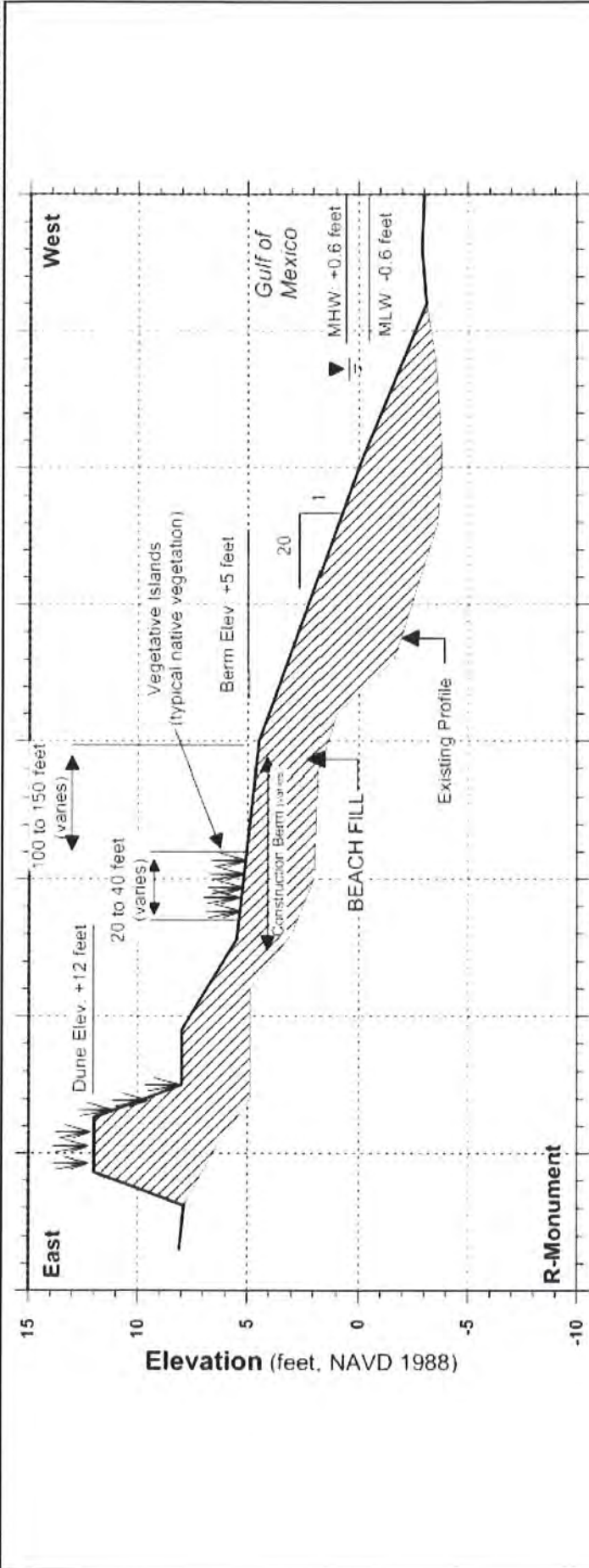
FILL AREA (R-101 To R-105.5) - PLAN VIEW
St. Joseph Peninsula Beach Re-Nourishment & Environmental Enhancement Project

Gulf County Board of County Commissioners
 1000 Cecil G. Costin, Sr. Boulevard, Port St. Joe, Florida, 32456

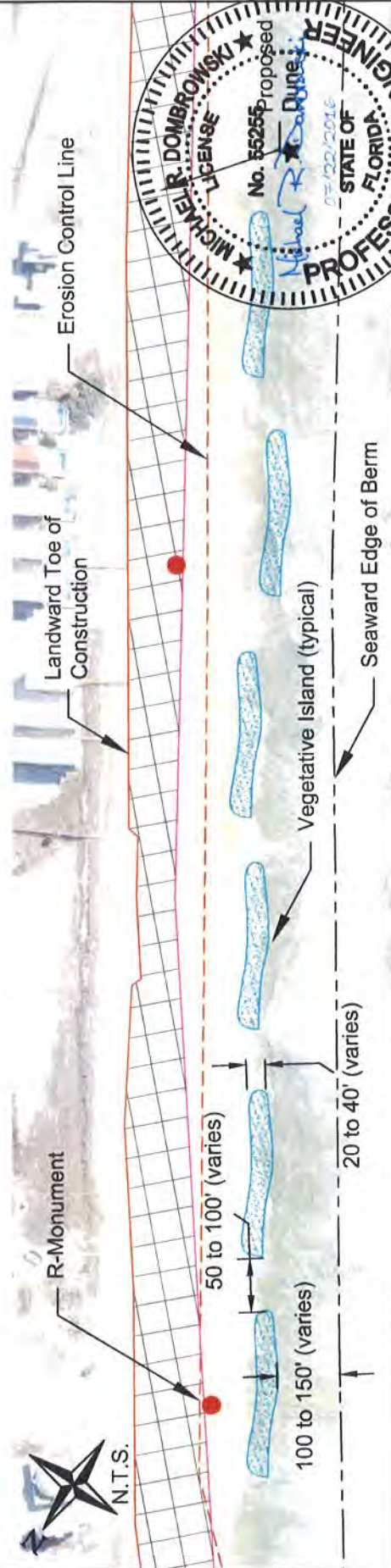
Rev Date:	Date: February 1, 2016
PROJECT NUMBER	15-210.22
SHEET NUMBER	9



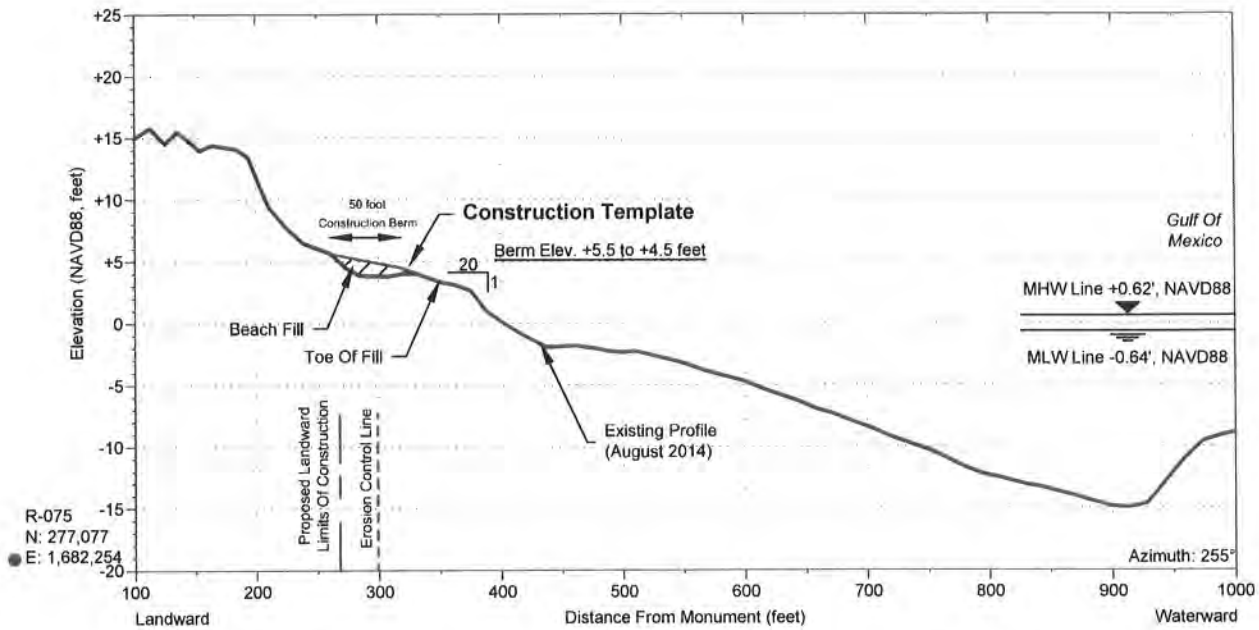
543 Harbor Boulevard, Suite 204 Destin, Florida 32541 Certification of Authorization Number 9482 850 654 1555 (voice) • 850 654 0550 (fax) www.mrd-associates.com	St. Joseph Peninsula Beach Re-Nourishment & Environmental Enhancement Project Gulf County Board of County Commissioners 1000 Cecil G. Costin, Sr. Boulevard, Port St. Joe, Florida, 32456
mrd mrd associates, inc. Coastal, Marine & Water Resources Engineering	TYPICAL BEACH FILL SECTION
PROJECT NUMBER 15-210.22	DATE: February 1, 2016 REV DATE: July 22, 2016
SHEET NUMBER 10	DATE: February 1, 2016 REV DATE: July 22, 2016



Distance from DEP Monument (feet)

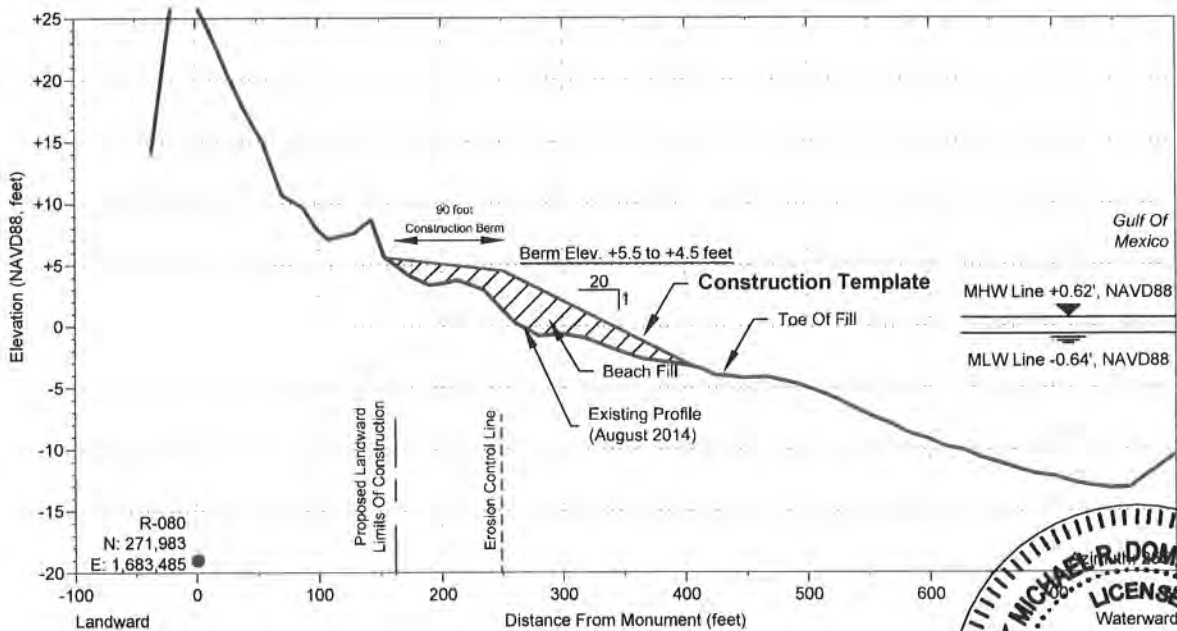


543 Harbor Boulevard, Suite 204 Destin, Florida 32541 Certification of Authorization Number 9482 850.654.1555 (voice) • 850.654.0550 (fax) www.mrd-associates.com mrd associates, inc. Coastal, Marine & Water Resource Engineering		TYPICAL VEGETATIVE ISLAND St. Joseph Peninsula Beach Re-Nourishment & Environmental Enhancement Project Gulf County Board of County Commissioners 1000 Cecil G. Costin, Sr. Boulevard, Port St. Joe, Florida, 32456	
Date: February 1, 2016 Rev Date: July 22, 2016		PROJECT NUMBER 15-210.22 SHEET NUMBER 11	



DEP R-075 CROSS-SECTION (Azimuth: 255°)

CONSTRUCTION VOLUME: 2.1 yds³/lf



DEP R-080 CROSS-SECTION (Azimuth: 255°)

CONSTRUCTION VOLUME: 17.6 yds³/lf

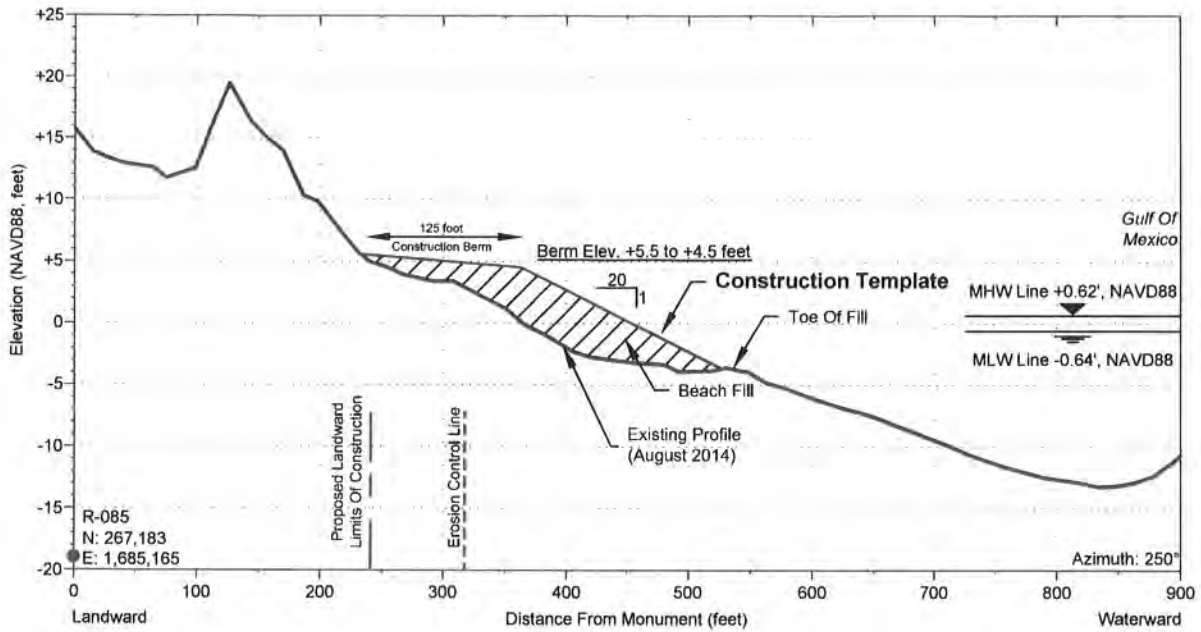


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BEACH FILL SECTIONS (R-075, R-080)
St. Joseph Peninsula Beach Re-Nourishment & Environmental Enhancement Project

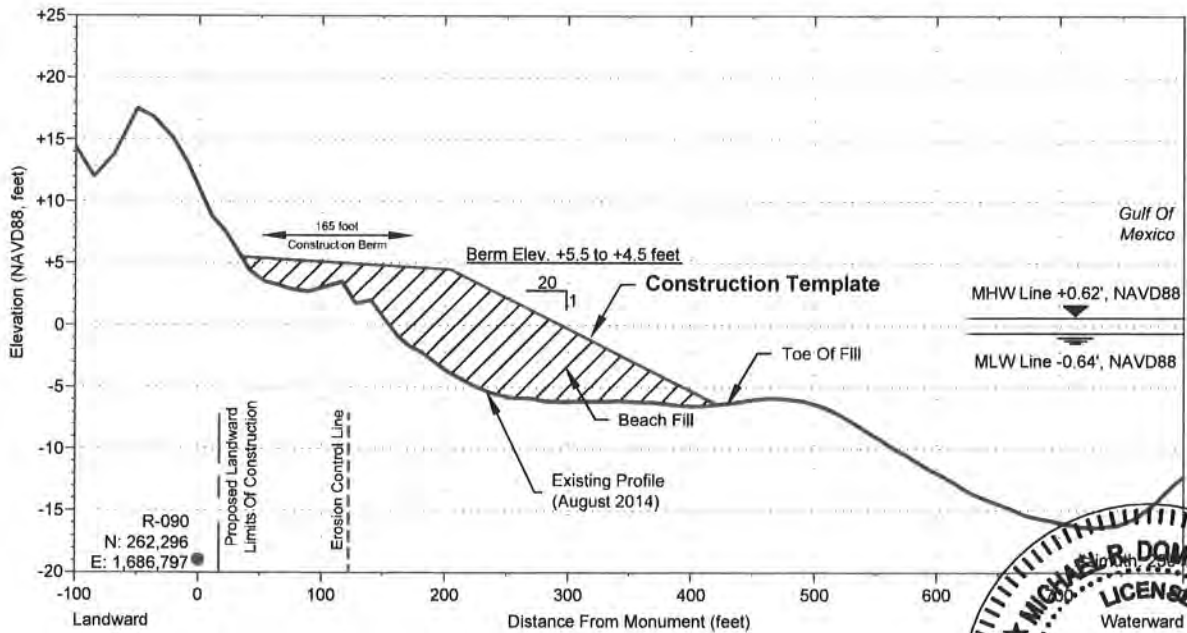
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Date: February 1, 2016	
Sheet Rev Date: July 22, 2016	
PROJECT NUMBER 15-210.22	SHEET NUMBER 12



DEP R-085 CROSS-SECTION (Azimuth: 250°)

CONSTRUCTION VOLUME: 28.3 yds³/lf



DEP R-090 CROSS-SECTION (Azimuth: 250°)

CONSTRUCTION VOLUME: 62.9 yds³/lf

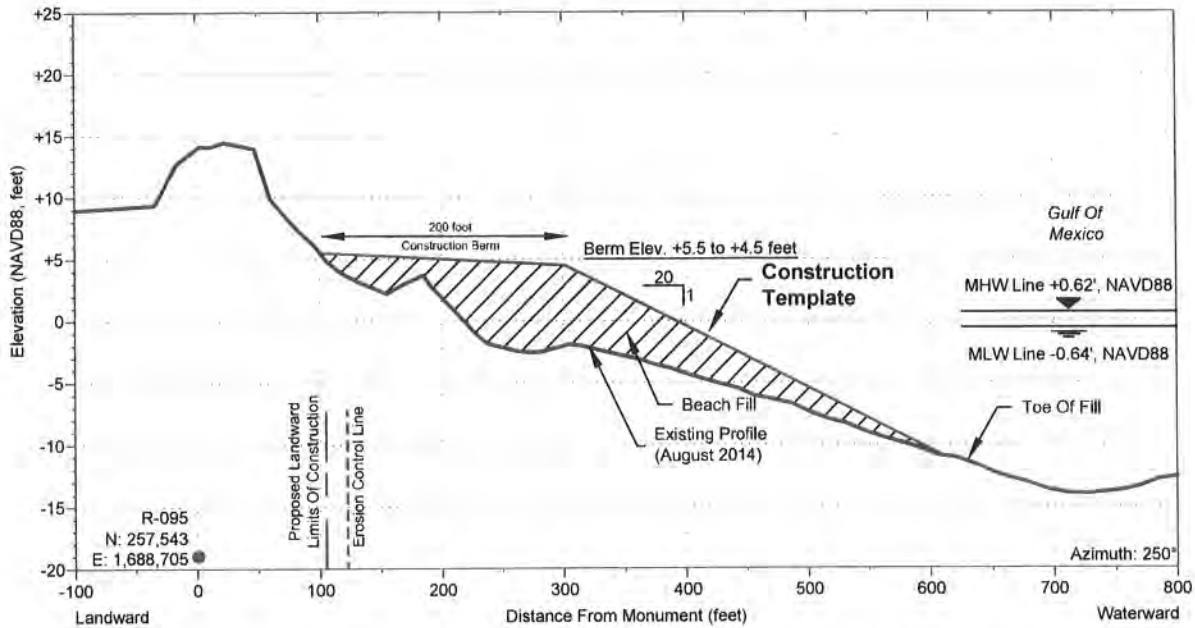


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BEACH FILL SECTIONS (R-085, R-090)
St. Joseph Peninsula Beach Re-Nourishment &
Environmental Enhancement Project

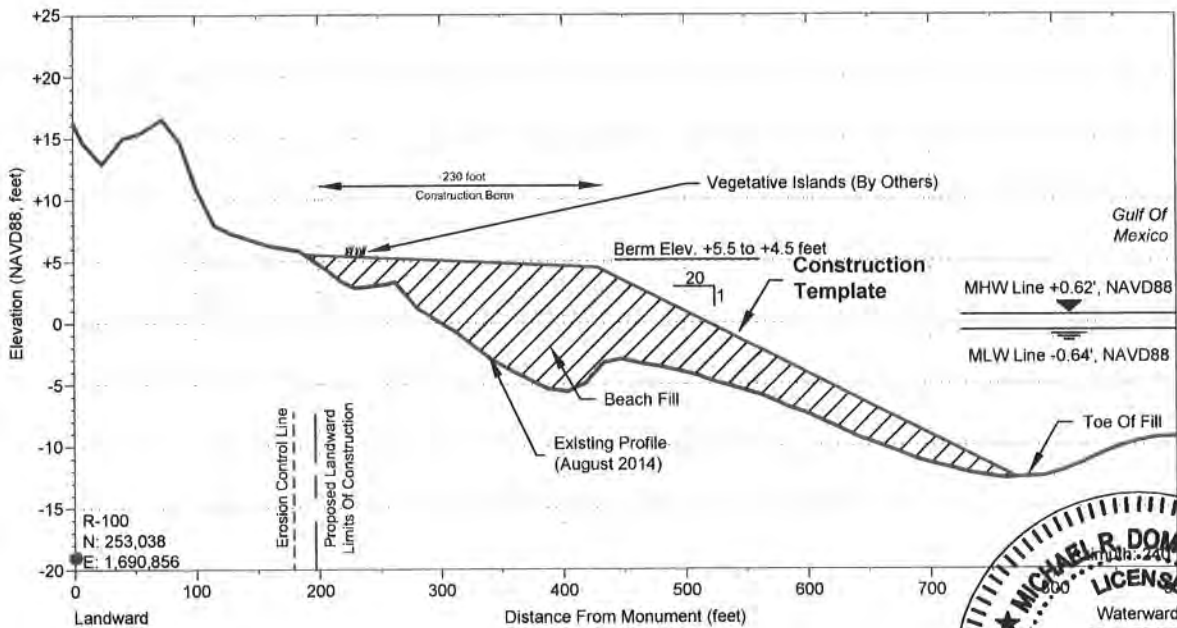
Gulf County Board of County Commissioners
1000 Cecil G. Costin, Sr. Boulevard, Port St. Joe, Florida, 32456

Date: February 1, 2016	
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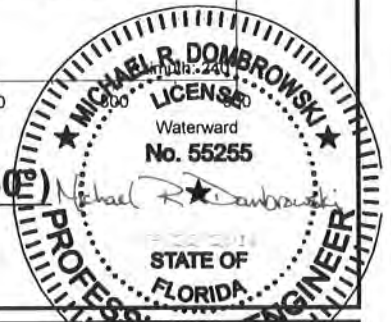
DEP R-095 CROSS-SECTION (Azimuth: 250°)

CONSTRUCTION VOLUME: 64.0 yds³/lf



DEP R-100 CROSS-SECTION (Azimuth: 250°)

CONSTRUCTION VOLUME: 95.3 yds³/lf

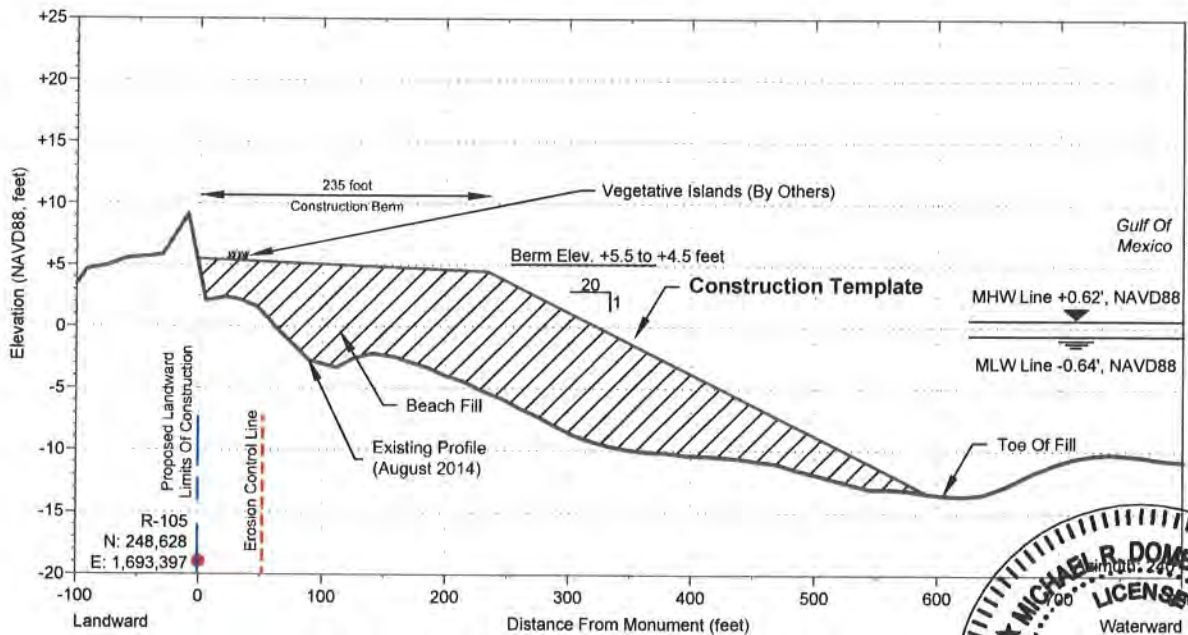
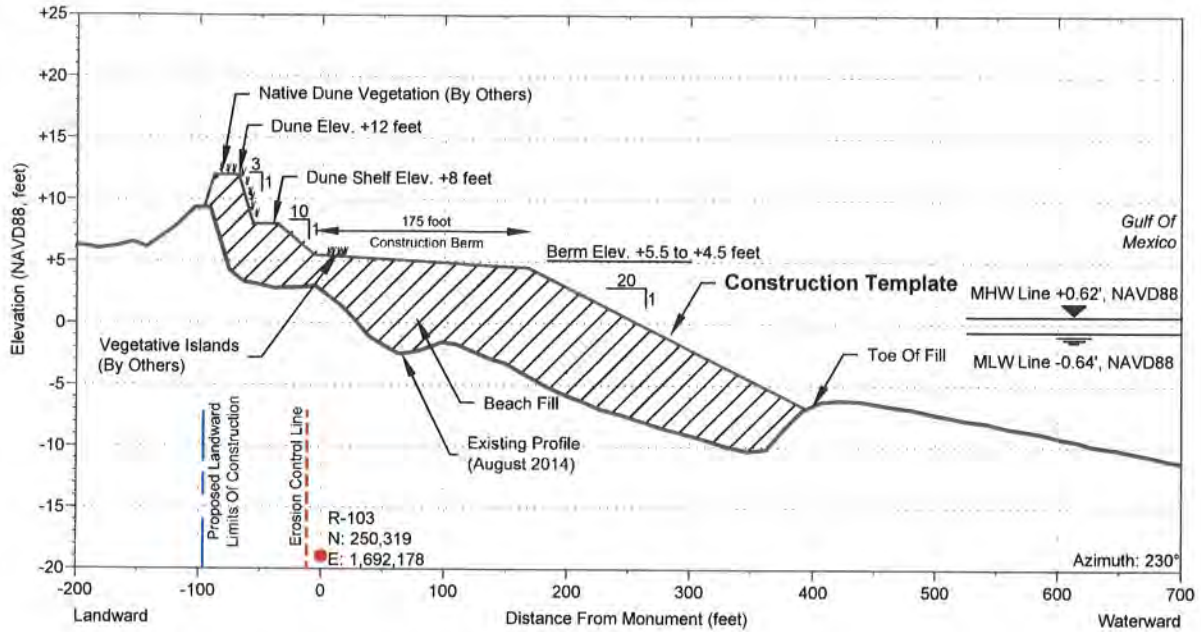


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BEACH FILL SECTIONS (R-095, R-100)
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Date: February 1, 2016	
Sheet Rev Date: July 22, 2016	
PROJECT NUMBER 15-210.22	SHEET NUMBER 14

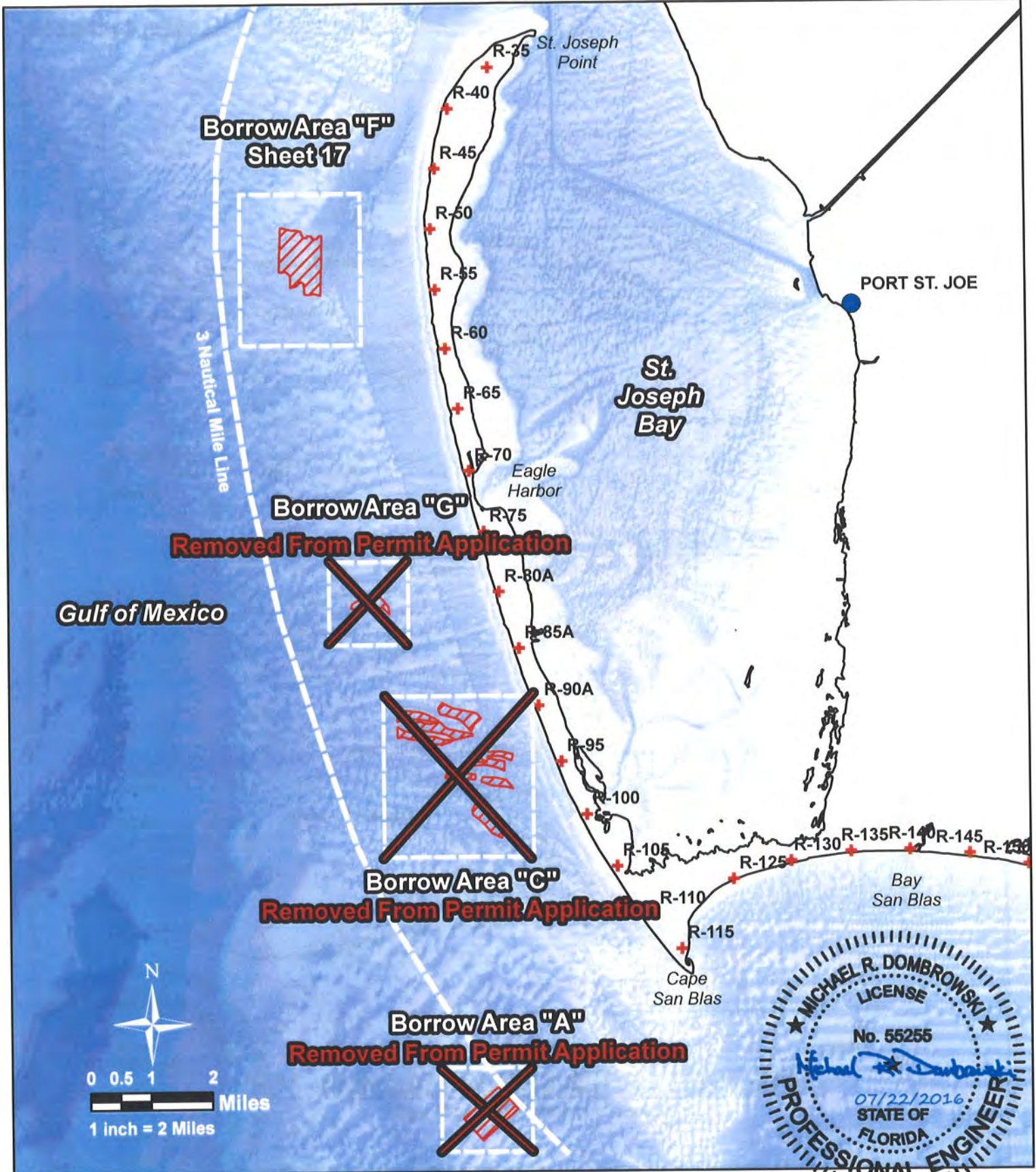


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BEACH FILL SECTIONS (R-103, R-105)
St. Joseph Peninsula Beach Re-Nourishment &
Environmental Enhancement Project

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Date: February 1, 2016	
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BORROW AREA INDEX

St. Joseph Peninsula Beach Re-Nourishment & Environmental Enhancement Project

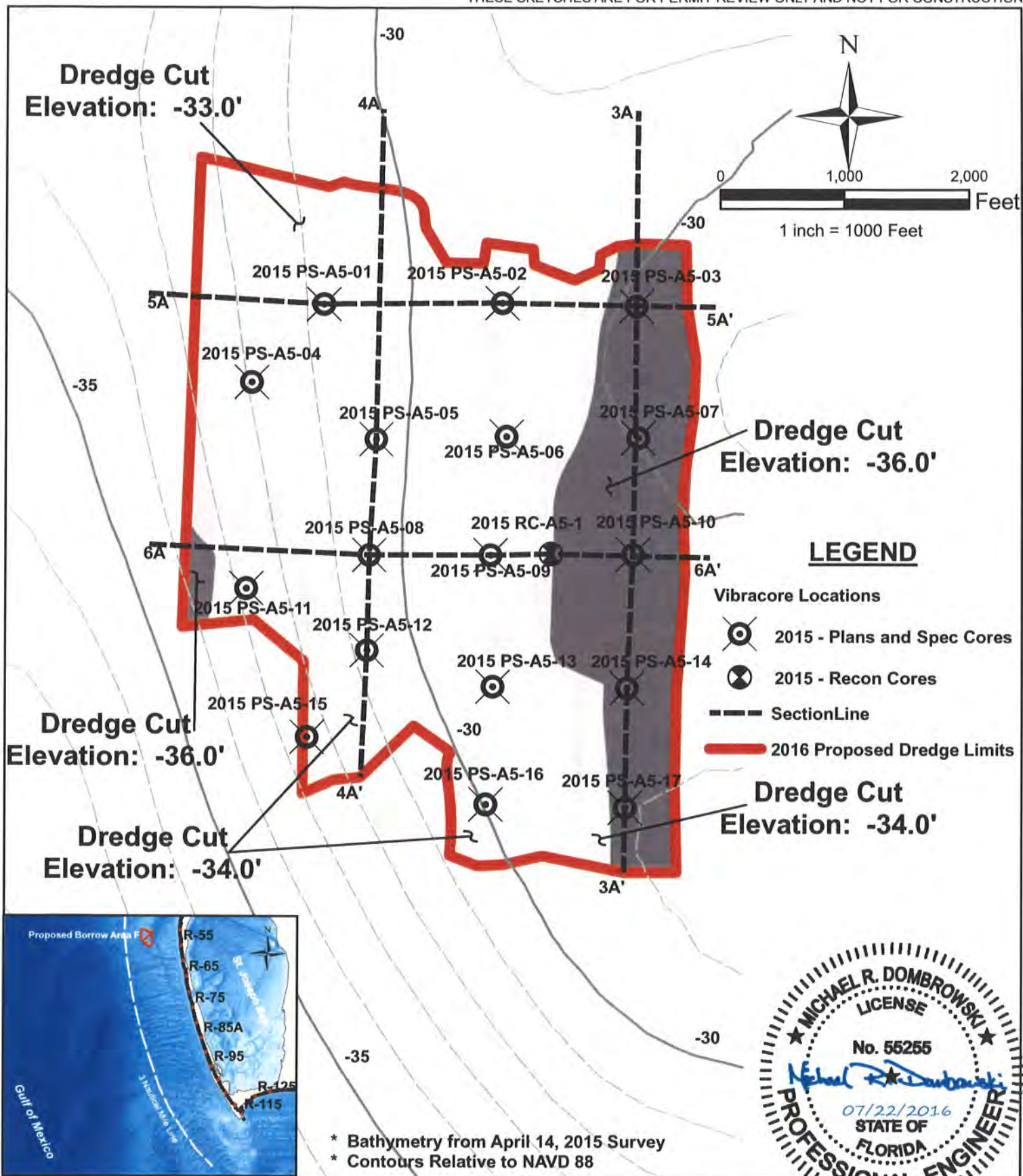
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Michael R. Dombrowski, P.E.
Florida P. E. Number 55255

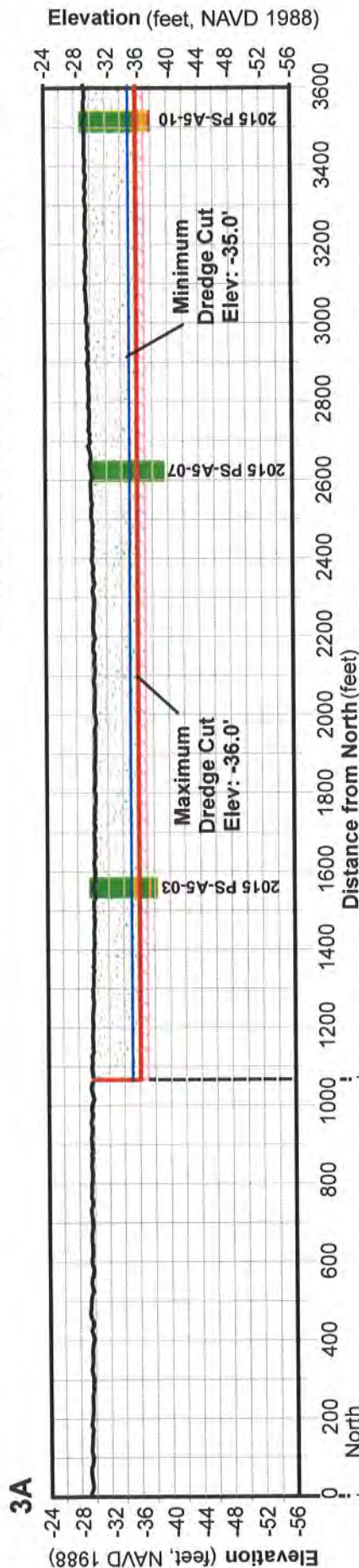
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Sheet Rev Date: July 22, 2016

PROJECT NUMBER:	SHEET NUMBER:
15-210.22	16

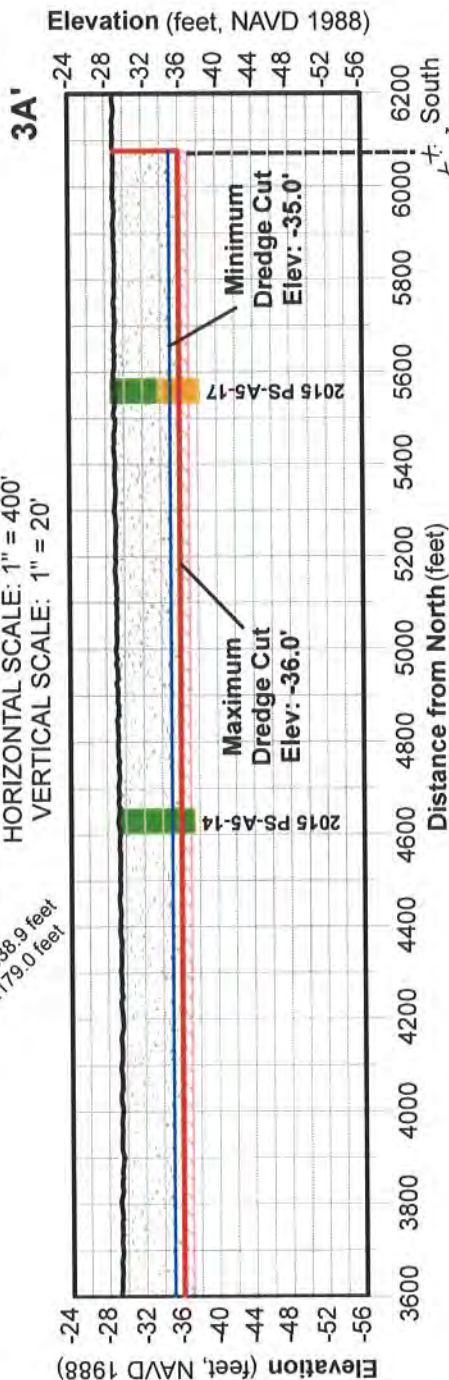


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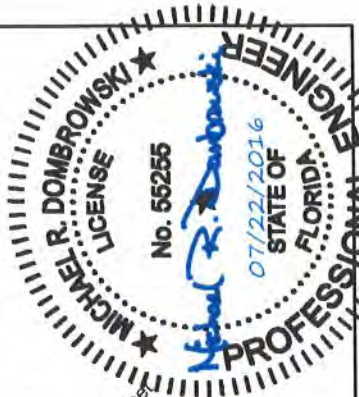
CROSS-SECTION 3A-3A'

HORIZONTAL SCALE: 1" = 400'
VERTICAL SCALE: 1" = 20'



LEGEND

- 2015 Bathymetry
- 2016 Proposed Minimum Dredge Cut
- 2016 Proposed Maximum Dredge Cut
- Acceptable Sediment
- Satisfactory Sediment
- Unacceptable Sediment
- Avoidance Zone



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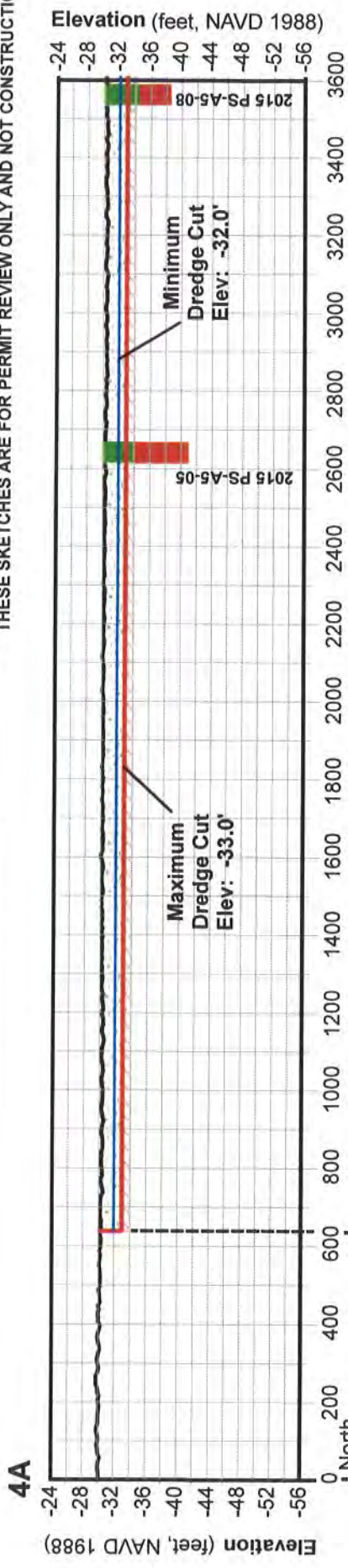
BORROW AREA "F" CROSS-SECTION 3A - 3A'

St. Joseph Peninsula Beach Re-Nourishment & Environmental Enhancement Project

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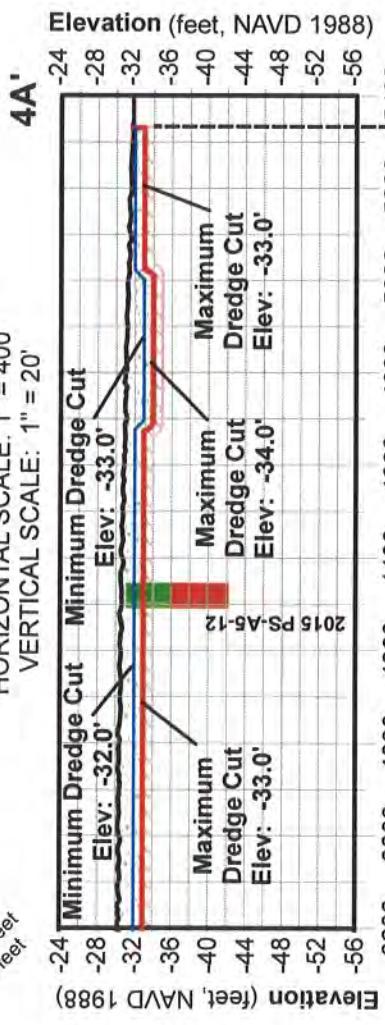
Michael R. Dombrowski, P.E. Florida P. E. Number 55255	
Date: February 1, 2016	Sheet Rev Date: July 22, 2016
PROJECT NUMBER: 15-210.22	SHEET NUMBER: 18

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CROSS-SECTION 4A-4A'

HORIZONTAL SCALE: 1" = 400'
VERTICAL SCALE: 1" = 20'

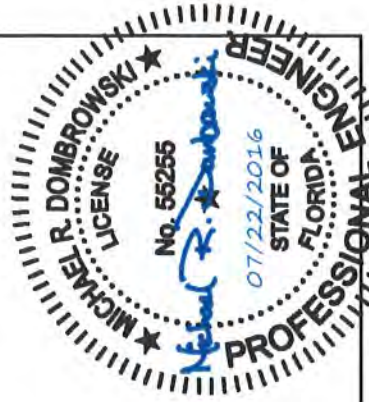


Point 1: 1666337.2 feet
Point 2: 2979307.7 feet

Distance from North (feet)

LEGEND

- 2015 Bathymetry
- 2016 Proposed Minimum Dredge Cut
- 2016 Proposed Maximum Dredge Cut
- Avoidance Zone
- Acceptable Sediment
- Unacceptable Sediment



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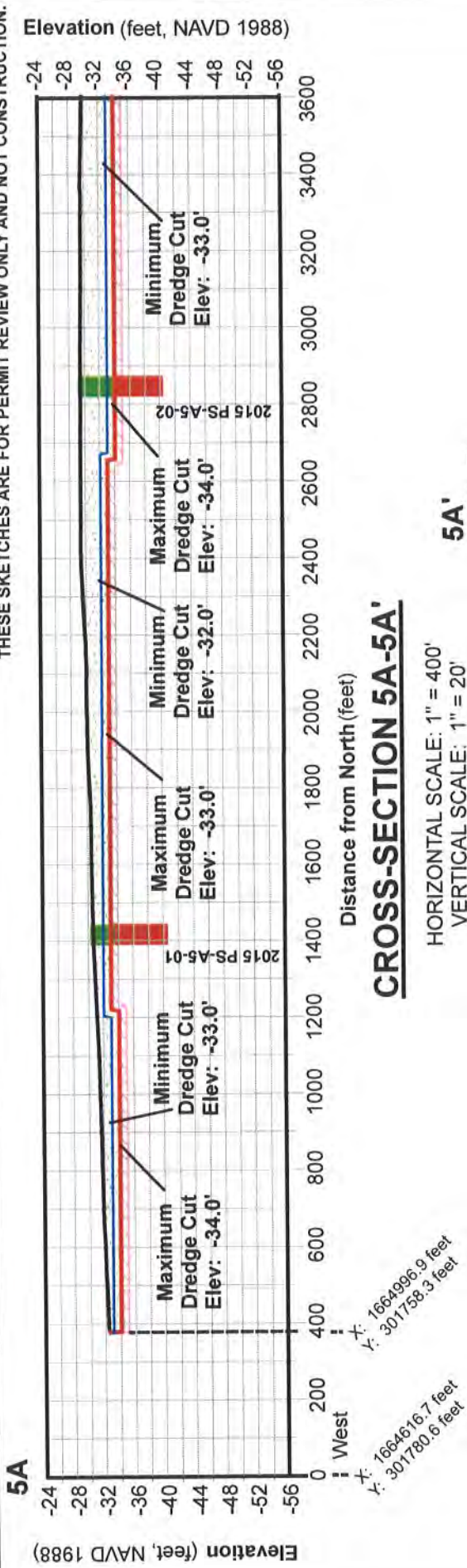
BORROW AREA "F" CROSS-SECTION 4A-4A'

St. Joseph Peninsula Beach Re-Nourishment & Environmental Enhancement Project

Gulf County Board of County Commissioners
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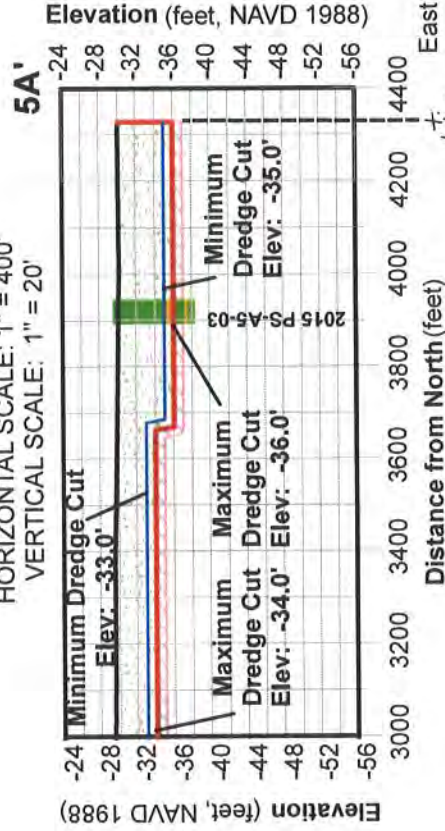
Michael R. Dombrowski, P.E. Florida P.E. Number 55255
Date: February 1, 2016
Sheet Rev Date: July 22, 2016
PROJECT NUMBER: 15-210.22
SHEET NUMBER: 19

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CROSS-SECTION 5A-5A'

HORIZONTAL SCALE: 1" = 400'
VERTICAL SCALE: 1" = 20'



LEGEND

- 2015 Bathymetry
- 2016 Proposed Minimum Dredge Cut
- 2016 Proposed Maximum Dredge Cut
- Acceptable Sediment
- Satisfactory Sediment
- Unacceptable Sediment
- Avoidance Zone



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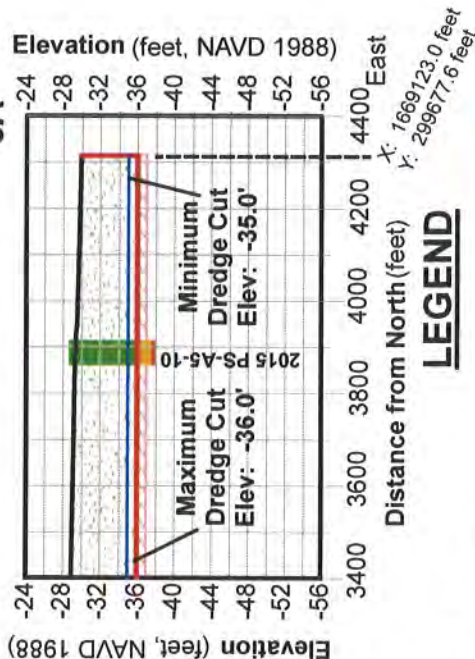
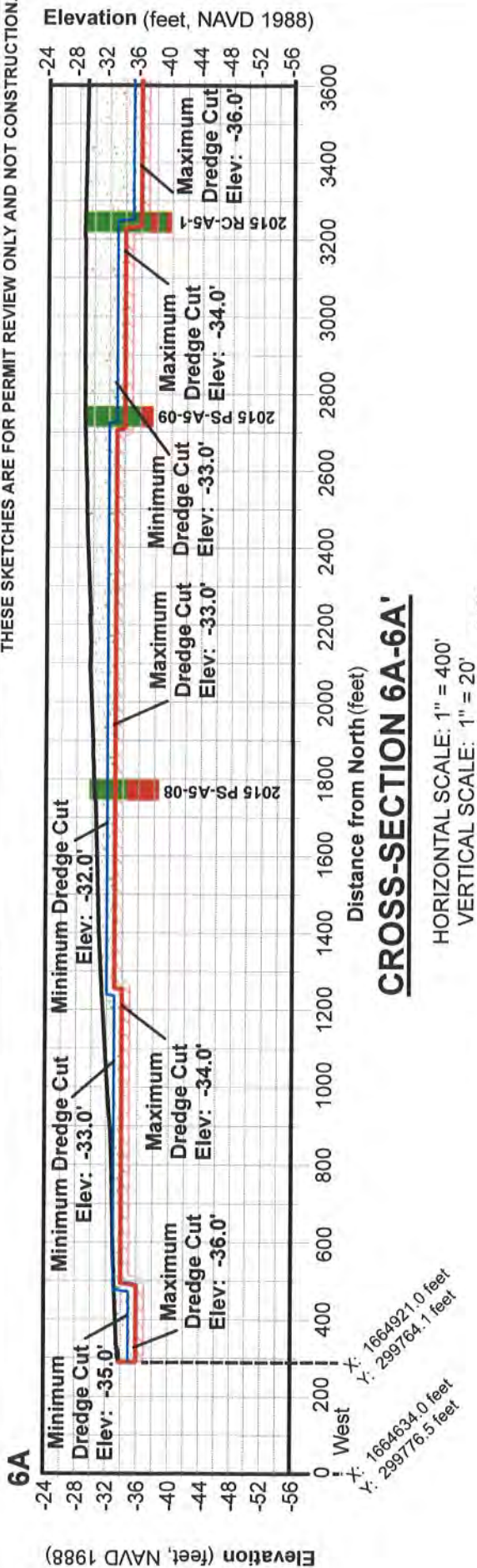
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BORROW AREA "F" CROSS-SECTION 5A-5A'
St. Joseph Peninsula Beach Re-Nourishment & Environmental Enhancement Project

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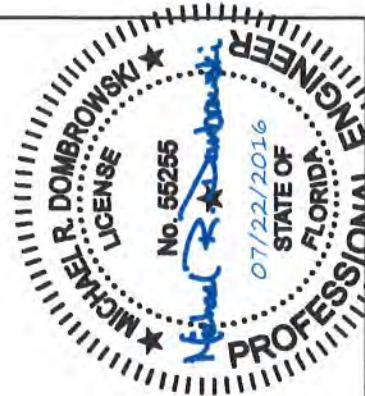
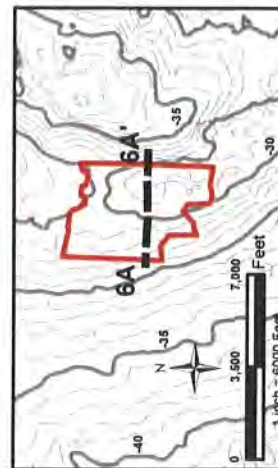
Michael R. Dombrowski, P.E. Florida P.E. Number 55255	Date: February 1, 2016	Sheet Rev Date: July 22, 2016	PROJECT NUMBER: 15-210.22	SHEET NUMBER: 20
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LEGEND

- 2015 Bathymetry
- 2016 Proposed Minimum Dredge Cut
- 2016 Proposed Maximum Dredge Cut
- Acceptable Sediment
- Satisfactory Sediment
- Unacceptable Sediment
- Avoidance Zone



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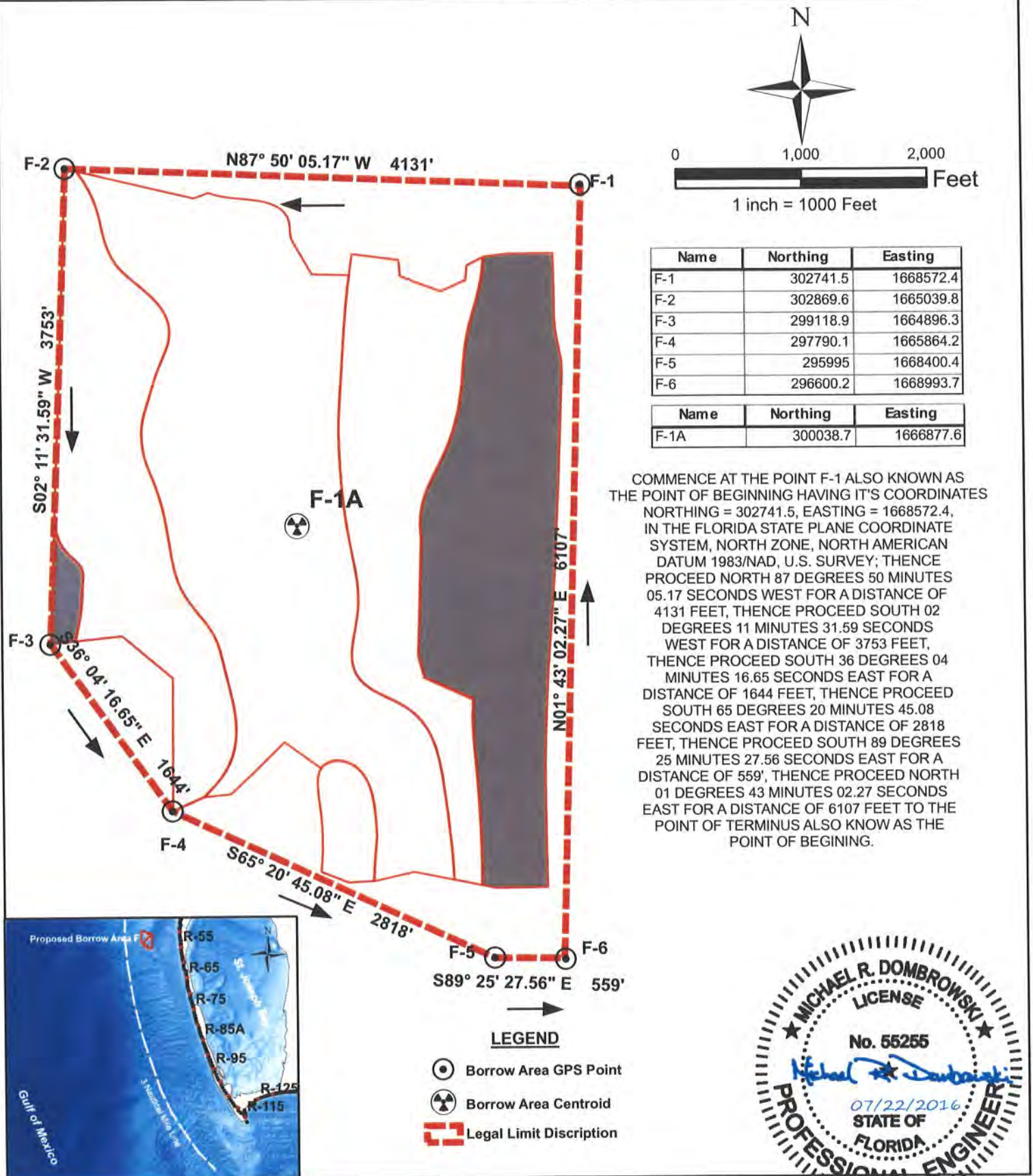
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BORROW AREA "F" CROSS-SECTION 6A-6A'

St. Joseph Peninsula Beach Re-Nourishment & Environmental Enhancement Project

Gulf County Board of County Commissioners
1000 Cecil G. Costin, Sr. Boulevard, Port St. Joe, Florida, 32456

Michael R. Dombrowski, P.E. Florida P.E. Number 55255 Date: February 1, 2016	Sheet Rev Date: July 22, 2016
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BORROW AREA "F" LEGAL DISCRIPTION

St. Joseph Peninsula Beach Re-Nourishment & Environmental Enhancement Project

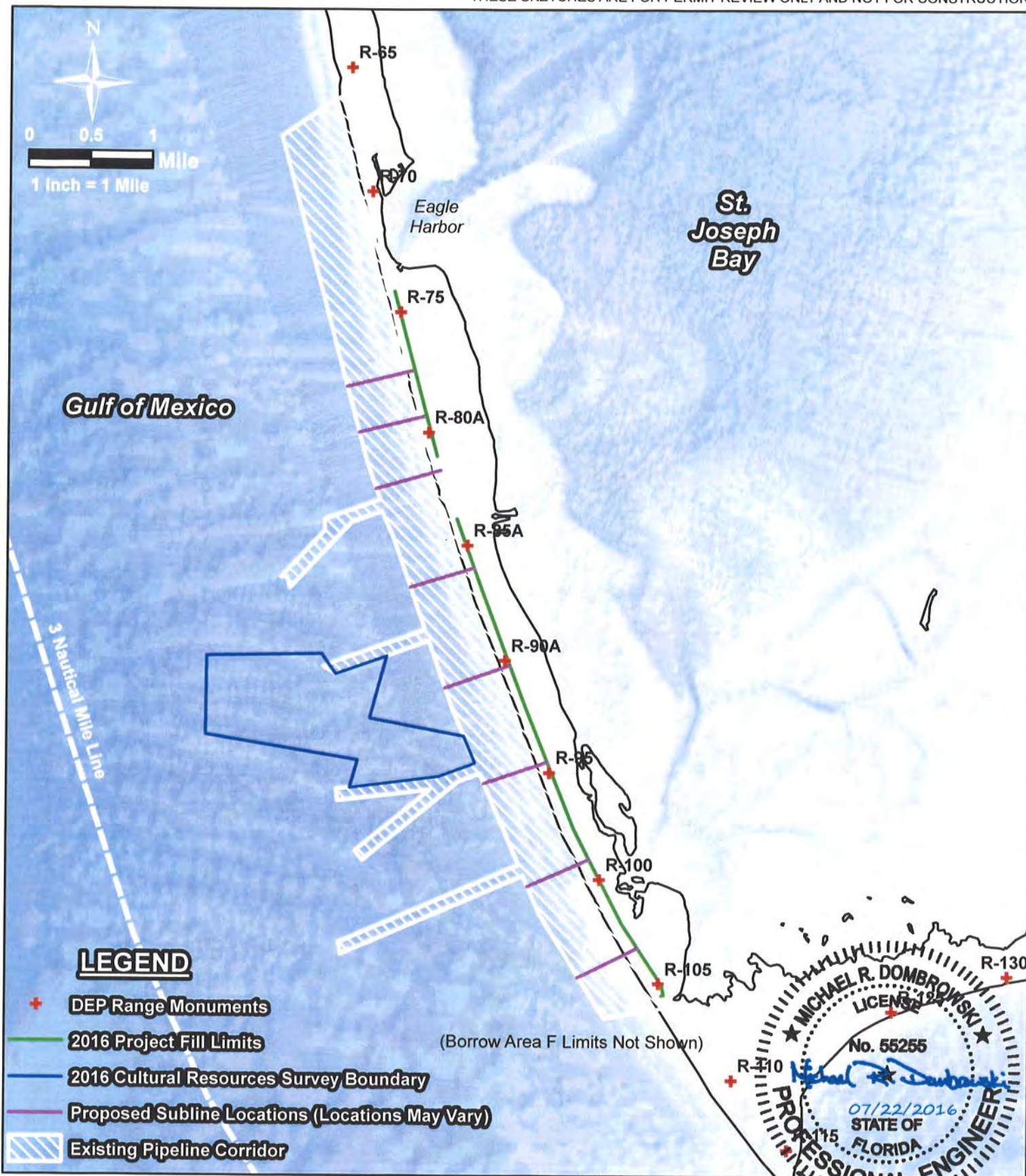
Gulf County Board of County Commissioners
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Michael R. Dombrowski, P.E.
Florida P. E. Number 55255

Date: July 22, 2016

Sheet Rev Date:

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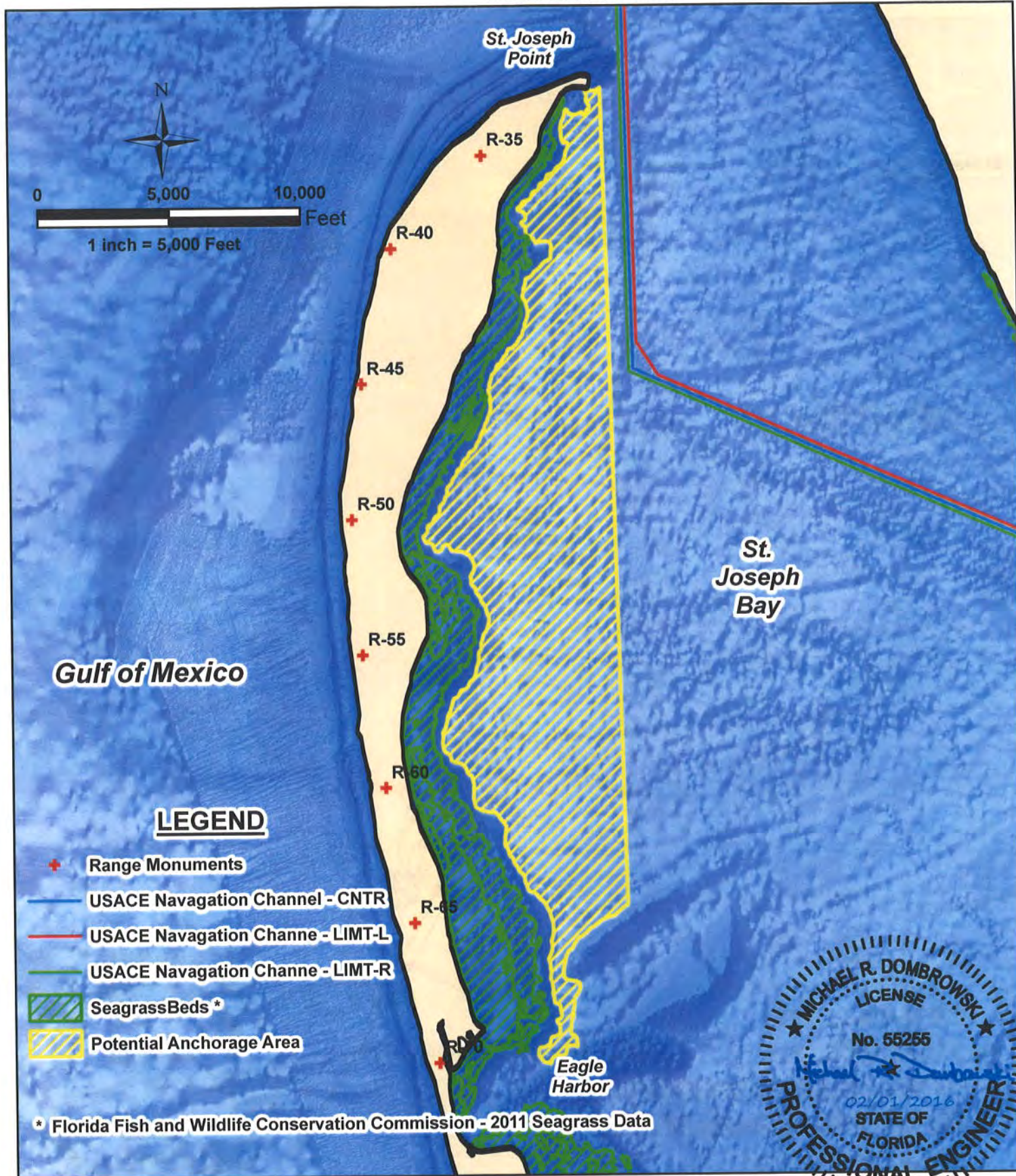


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PIPELINE CORRIDOR & SUBLINE LOCATIONS
St. Joseph Peninsula Beach Re-Nourishment & Environmental Enhancement Project

Gulf County Board of County Commissioners
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Michael R. Dombrowski, P.E. Florida P. E. Number 55255	
Date: July 22, 2016	
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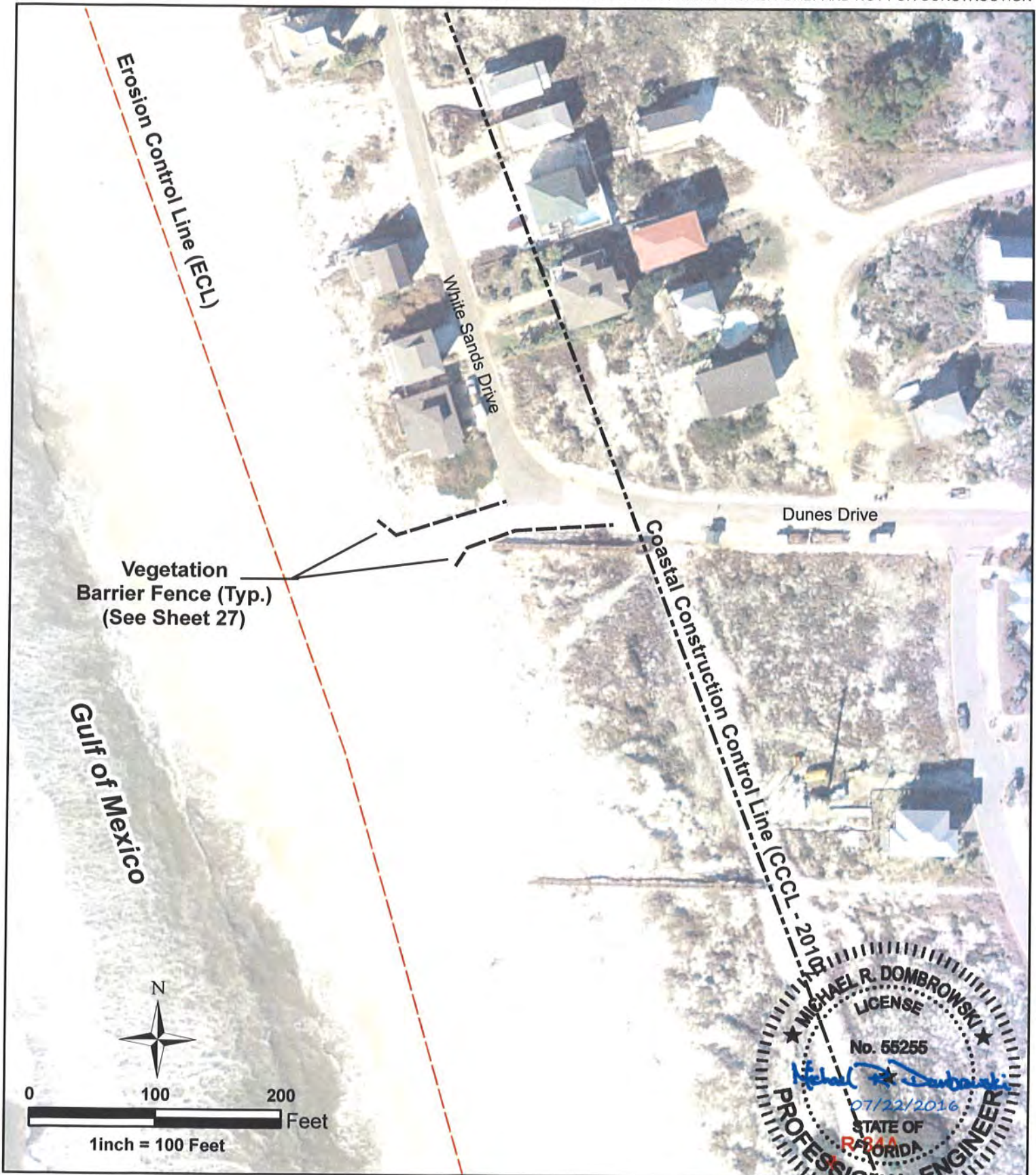


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SAFE ANCHORAGE LOCATION
St. Joseph Peninsula Beach Re-Nourishment & Environmental Enhancement Project

Gulf County Board of County Commissioners
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Date: February 1, 2016	
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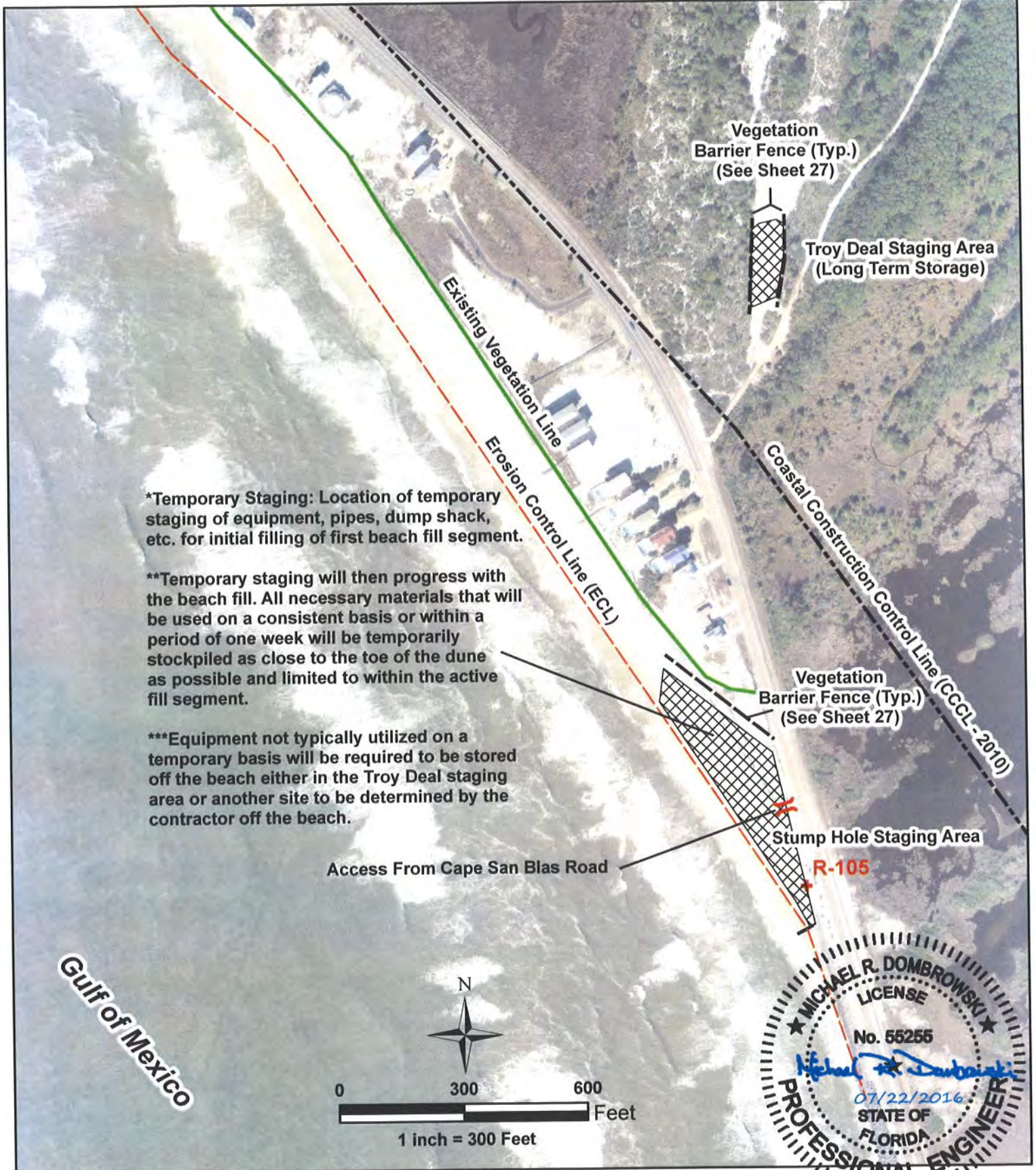
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CONSTRUCTION ACCESS - DUNES DRIVE
St. Joseph Peninsula Beach Re-Nourishment & Environmental Enhancement Project

Gulf County Board of County Commissioners
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Michael R. Dombrowski, P.E. Florida P. E. Number 55255	
Date: February 1, 2016	
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TYPICAL VEGETATIVE BARRIER FENCE DETAIL
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Michael R. Dombrowski, P.E. Florida P.E. Number 55255	
Date: July 22, 2016	Sheet Rev Date:
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