



Florida Department of Environmental Protection

Southeast District Office
3301 Gun Club Road, MSC 7210-1
West Palm Beach, Florida 33406
561-681-6600

Rick Scott
Governor

Carlos Lopez-Cantera
Lt. Governor

Noah Valenstein
Secretary

Florida Inland Navigation District
c/o Mark Crosley, Executive Director
1314 Marcinski Road
Jupiter, FL 33477

Sent via e-mail to designated agent: lbrownell@taylorengineering.com

Re: File No.: 50-0364278-001-EE
File Name: FIND ICWW

Dear Mr. Crosley:

On May 7, 2018, we received your application for an exemption to maintenance dredge 280,000 cubic yards of material within an approximately 15,312,000 sq. ft. area to a maximum dredge depth of minus twelve (12) feet below mean lower low water. The project is located in the Intracoastal Waterway, Class III Waters, beginning at the S.R. 812 Bridge, Lantana (Sections 2 and 3, Township 45 South, Range 43 East), in Palm Beach County (Latitude N 26° 34' 58.18", Longitude W 80° 2' 44.17") and ending adjacent to NE 10th Street, Pompano Beach (Section 30, Township 48 South, Range 43 East), in Broward County (Latitude N 26° 14' 47.74", Longitude W 80° 5' 26.86").

Your request has been reviewed to determine whether it qualifies for (1) regulatory exemption, (2) proprietary authorization (related to state-owned submerged lands), and (3) federal approval that may be necessary for work in wetlands or waters of the United States.

Your project did not qualify for the federal review portion of this verification request. **Additional authorization must be obtained prior to commencement of the proposed activity.** This letter does not relieve you from the responsibility of obtaining other federal, state, or local authorizations that may be required for the activity. Please refer to the specific section(s) dealing with that portion of the review below for advice on how to proceed.

1. Regulatory Review – VERIFIED

Based on the information submitted, the Department has verified that the activity as proposed is exempt under Chapter 62-330.051(7)(a), Florida Administrative Code, from the need to obtain a regulatory permit under part IV of Chapter 373 of the Florida Statutes.

This exemption verification is based on the information you provided the Department and the statutes and rules in effect when the information was submitted. This verification will expire after one year, and will not be valid at any other time if site conditions materially change, the project design is modified, or the statutes or rules governing the exempt activity are amended. However, the activity may still be conducted without further notification to or verification from the Department after the one-year expiration of this verification, provided: 1) the project design does not change; 2) site conditions do not materially change; and 3) there are no changes to the statutes or rules governing the exempt activity. In the event you need to re-verify the exempt status for the activity after the one-year expiration of this verification, a new application and verification fee will be required. Any substantial modifications to the project design should be submitted to the Department for review, as changes may result in a permit being required. Conditions of compliance with the regulatory exemption are contained in Attachment A.

2. Proprietary Review – GRANTED

The Department acts as staff to the Board of Trustees of the Internal Improvement Trust Fund (Board of Trustees) and issues certain authorizations for the use of sovereign submerged lands. The Department has the authority to review activities on sovereign submerged lands under chapters 253 and 258 of the Florida Statutes, and chapters 18-18, 18-20 and 18-21 of the Florida Administrative Code.

A portion of your project will occur on sovereignty, submerged land and will require authorization from the Board of Trustees to use public property. As staff to the Board of Trustees, we have reviewed the proposed project and have determined that, as long as they are located within the described boundaries of Sovereignty Submerged Lands Easement Nos. 29099 and 29106 and is consistent the attached general consent conditions, no further authorization from the Board of Trustees is required.

A portion of the activity does not appear to be located on sovereign submerged lands, and does not require further authorization under chapter 253 of the Florida Statutes, or chapters 18-20 or 18-21 of the Florida Administrative Code.

General Conditions for State-Owned Submerged Land Authorizations:

(a) Authorizations are valid only for the specified activity or use. Any unauthorized deviation from the specified activity or use and the conditions for undertaking that activity or use shall constitute a violation. Violation of the authorization shall result in suspension or revocation of the grantee's use of the sovereignty submerged land unless cured to the satisfaction of the Board.

(b) Authorizations convey no title to sovereignty submerged land or water column, nor do they constitute recognition or acknowledgment of any other person's title to such land or water.

(c) Authorizations may be modified, suspended or revoked in accordance with their terms or the remedies provided in Sections 253.04 and 258.46, F.S., or Chapter 18-14, F.A.C.

(d) Structures or activities shall be constructed and used to avoid or minimize adverse impacts to sovereignty submerged lands and resources.

(e) Construction, use, or operation of the structure or activity shall not adversely affect any species which is endangered, threatened or of special concern, as listed in Rules 68A-27.003, 68A-27.004, and 68A-27.005, F.A.C.

(f) Structures or activities shall not unreasonably interfere with riparian rights. When a court of competent jurisdiction determines that riparian rights have been unlawfully affected, the structure or activity shall be modified in accordance with the court's decision.

(g) Structures or activities shall not create a navigational hazard.

(h) Structures shall be maintained in a functional condition and shall be repaired or removed if they become dilapidated to such an extent that they are no longer functional. This shall not be construed to prohibit the repair or replacement subject to the provisions of Rule 18-21.005, F.A.C., within one year, of a structure damaged in a discrete event such as a storm, flood, accident, or fire.

(i) Structures or activities shall be constructed, operated, and maintained solely for water dependent purposes, or for non-water dependent activities authorized under paragraph 18-21.004(1)(f), F.A.C., or any other applicable law.

3. Federal Review – SPGP NOT APPROVED

Your proposed activity as outlined on your application and attached drawings does not qualify for Federal authorization pursuant to the State Programmatic General Permit and a SEPARATE permit or authorization shall be required from the Corps. You must apply separately to the Corps using the appropriate federal application form (ENG 4345). More information about Corps permitting may be found online in the Jacksonville District Regulatory Division Sourcebook.

Authority for review - an agreement with the USACOE entitled "Coordination Agreement Between the U. S. Army Corps of Engineers (Jacksonville District) and the Florida Department of Environmental Protection, or Duly Authorized Designee, State Programmatic General Permit", Section 10 of the Rivers and Harbor Act of 1899, and Section 404 of the Clean Water Act.

Additional Information

Please retain this letter. The activities may be inspected by authorized state personnel in the future to insure compliance with appropriate statutes and administrative codes. If the activities are not in compliance, you may be subject to penalties under Chapter 373, F.S., and Chapter 18-14, F.A.C.

NOTICE OF RIGHTS

This action is final and effective on the date filed with the Clerk of the Department unless a petition for an administrative hearing is timely filed under Sections 120.569 and 120.57, F.S., before the deadline for filing a petition. On the filing of a timely and sufficient petition, this action will not be final and effective until further order of the Department. Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Department's final action may be different from the position taken by it in this notice.

Petition for Administrative Hearing

A person whose substantial interests are affected by the Department's action may petition for an administrative proceeding (hearing) under Sections 120.569 and 120.57, F.S. Pursuant to Rule 28-106.201, F.A.C., a petition for an administrative hearing must contain the following information:

- (a) The name and address of each agency affected and each agency's file or identification number, if known;
- (b) The name, address, any email address, any facsimile number, and telephone number of the petitioner; the name, address, and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial interests are or will be affected by the agency determination;
- (c) A statement of when and how the petitioner received notice of the agency decision;
- (d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate;
- (e) A concise statement of the ultimate facts alleged, including the specific facts that the petitioner contends warrant reversal or modification of the agency's proposed action;
- (f) A statement of the specific rules or statutes that the petitioner contends require reversal or modification of the agency's proposed action, including an explanation of how the alleged facts relate to the specific rules or statutes; and
- (g) A statement of the relief sought by the petitioner, stating precisely the action that the petitioner wishes the agency to take with respect to the agency's proposed action.

The petition must be filed (received by the Clerk) in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000. Also, a copy of the petition shall be mailed to the applicant at the address indicated above at the time of filing.

Time Period for Filing a Petition

In accordance with Rule 62-110.106(3), F.A.C., petitions for an administrative hearing by the applicant must be filed within 14 days of receipt of this written notice. Petitions filed by any persons other than the applicant, and other than those entitled to written notice under Section 120.60(3), F.S. must be filed within 14 days of publication of the notice or within 14 days of receipt of the written notice, whichever occurs first. Under Section 120.60(3), F.S., however, any person who has asked the Department for notice of agency action may file a petition within 14 days of receipt of such notice, regardless of the date of publication. The failure to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under Sections 120.569 and 120.57, F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention (in a proceeding initiated by another party) will be only at the discretion of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205, F.A.C.

Extension of Time

Under Rule 62-110.106(4), F.A.C., a person whose substantial interests are affected by the Department's action may also request an extension of time to file a petition for an administrative hearing. The Department may, for good cause shown, grant the request for an extension of time.

Requests for extension of time must be filed with the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000, before the applicable deadline for filing a petition for an administrative hearing. A timely request for extension of time shall toll the running of the time period for filing a petition until the request is acted upon.

Mediation

Mediation is not available in this proceeding.

FLAWAC Review

The applicant, or any party within the meaning of Section 373.114(1)(a) or 373.4275, F.S., may also seek appellate review of this order before the Land and Water Adjudicatory Commission under Section 373.114(1) or 373.4275, F.S. Requests for review before the Land and Water Adjudicatory Commission must be filed with the Secretary of the Commission and served on the Department within 20 days from the date when the order is filed with the Clerk of the Department.

Judicial Review

Any party to this action has the right to seek judicial review pursuant to Section 120.68, F.S., by filing a Notice of Appeal pursuant to Rules 9.110 and 9.190, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 3900 Commonwealth Boulevard, M.S. 35, Tallahassee, Florida 32399-3000; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date this action is filed with the Clerk of the Department.

Thank you for applying to the Submerged Lands and Environmental Resource Permit Program. If you have any questions regarding this matter, please contact Danielle Sattelberger at (561) 681-6609 or by email at Danielle.Sattelberger@floridadep.gov.

Executed in Orlando, Florida.

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION



Danielle Sattelberger
Environmental Specialist II
Southeast District

Project No.: 50-0364278-001-EE

Project Name: FIND ICWW

Page 6 of 6

CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this permit and all copies were sent on the filing date below to the following listed persons:

FDEP – Monica Sovacool, Danielle Sattelberger

Linda Sunderland, Broward County EPD, LSunderland@broward.org

Lori Brownell, Taylor Engineering, Inc., lbrownell@tayloengineering.com

FILING AND ACKNOWLEDGMENT

FILED, on this date, pursuant to Section 120.52, F. S., with the designated Department Clerk, receipt of which is hereby acknowledged.



Clerk

June 12, 2018

Date

Enclosures:

Attachment A- Specific Exemption Rule

Project Drawings, 23 pages

Attachment A

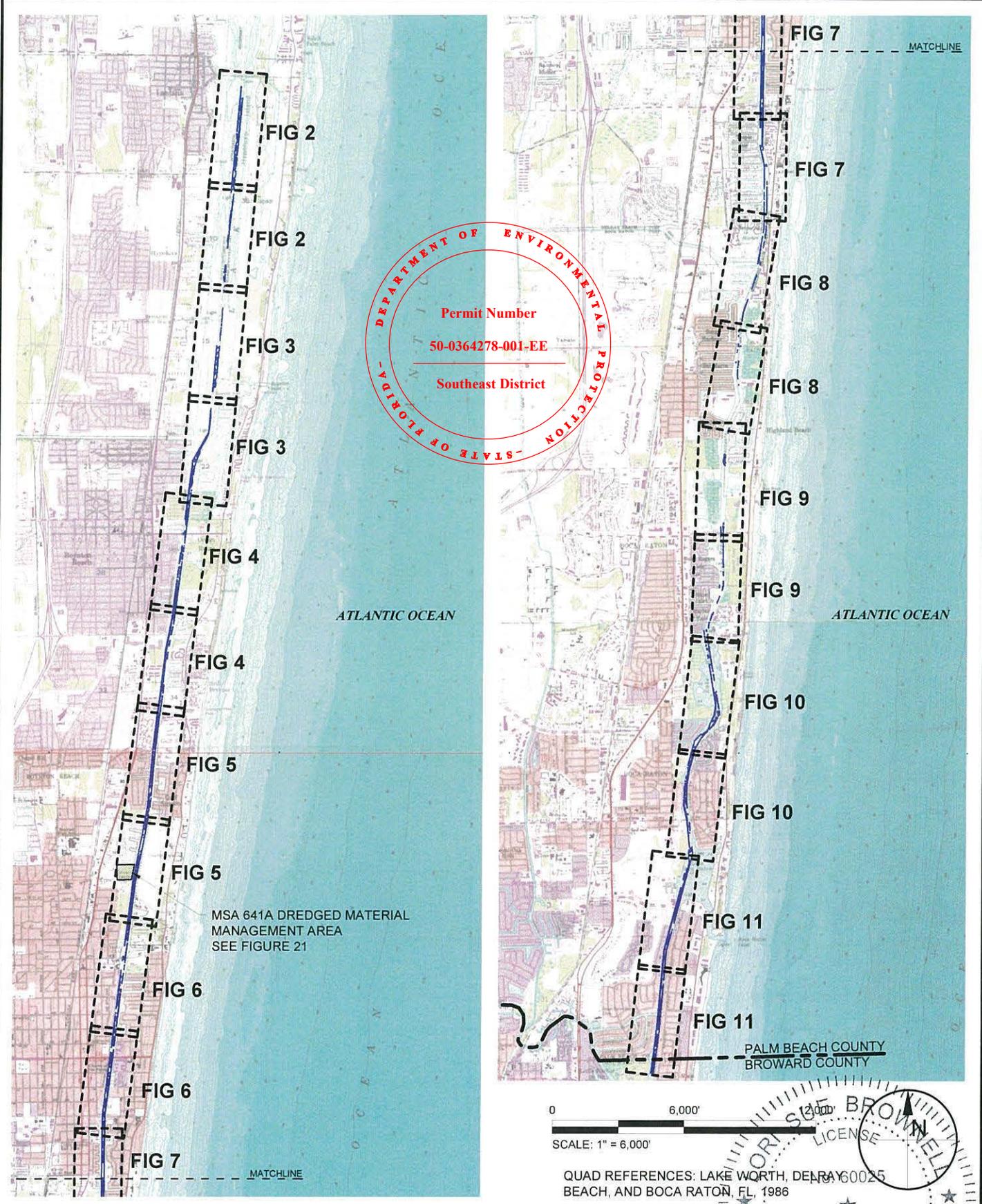
Chapter 62-330.051 Exempt Activities.

The activities meeting the limitations and restrictions below are exempt from permitting. However, if located in, on, or over state-owned submerged lands, they are subject to a separate authorization under Chapters 253 and 258, F.S., and Chapters 18-18, 18-20, and 18-21, F.A.C., as applicable.

(7) Maintenance and Restoration –

(a) Maintenance dredging under section 403.813(1)(f), F.S.

CATHY SHELL X:\SYS\PROJECTS\C2018-009 FIND BROWARD REACH I\PERMIT\C2018-009-P-LOCATION MAP PB DWG 5/7/2018 12:00:12 PM



TAYLOR ENGINEERING INC.
 10151 DEERWOOD PARK BLVD
 BLDG 300, SUITE 300
 JACKSONVILLE, FLORIDA 32256
 CERTIFICATE OF AUTHORIZATION # 4815

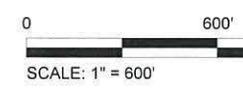
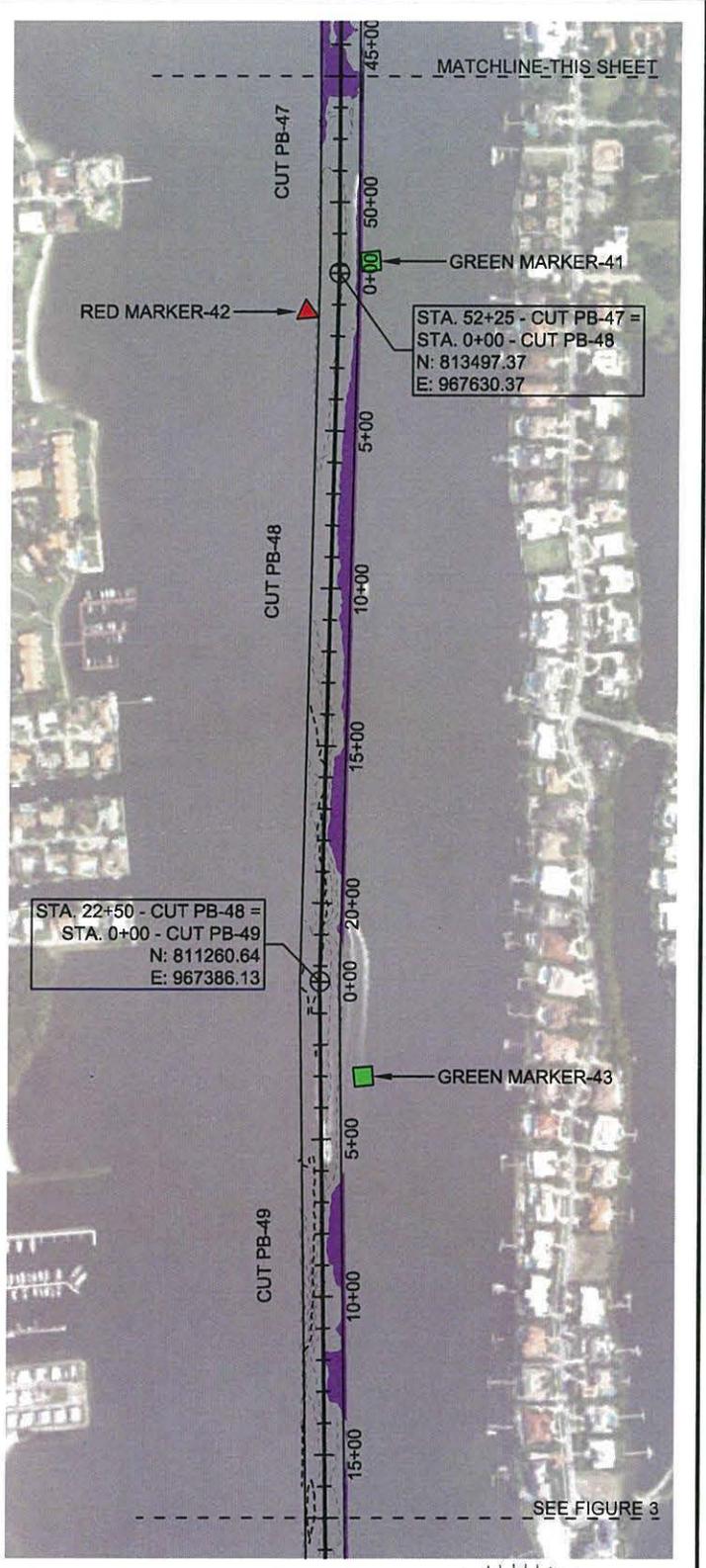
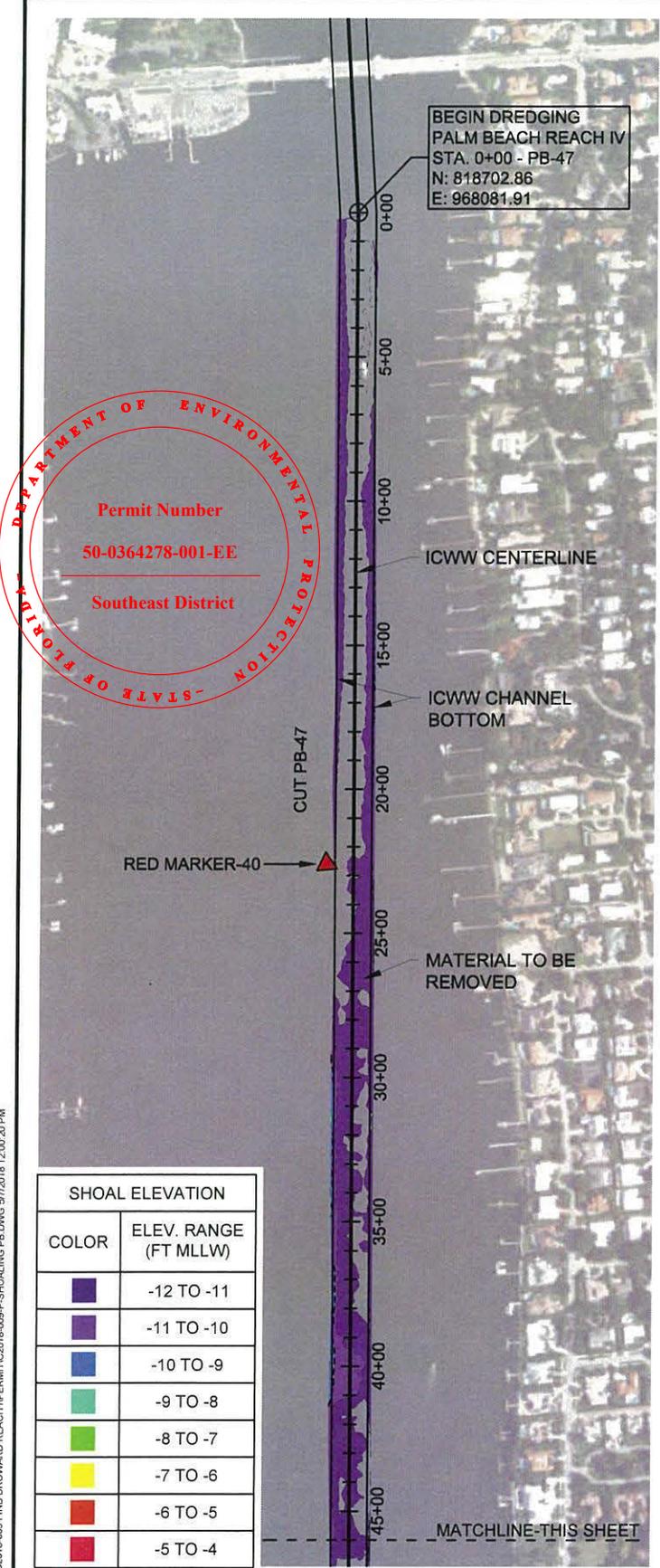
FIGURE 1
 PALM BEACH REACH IV CUTS PB-47 - PB-91
 ICWW MAINTENANCE DREDGING
 PALM BEACH AND BROWARD COUNTY, FLORIDA

PROJECT	DRAWN BY	SHEET	DATE
C2018-009	CAS	1 of 22	05-04-18

ROBERT SUE BROWNE
 LICENSE
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 5/17/2018

PRELIMINARY DRAWINGS: THESE DRAWINGS ARE NOT IN FINAL FORM, BUT ARE BEING TRANSMITTED FOR AGENCY REVIEW.

CATHY SHELL X:\SIS\PROJECTS\2018-009 FIND BROWARD REACH I\PERMIT\2018-009-P-SHOALING PB.DWG 5/7/2018 12:00:20 PM



**AERIAL REFERENCE: FDOT, 2015
SURVEY REFERENCE: USACE, SEPT. 2010**

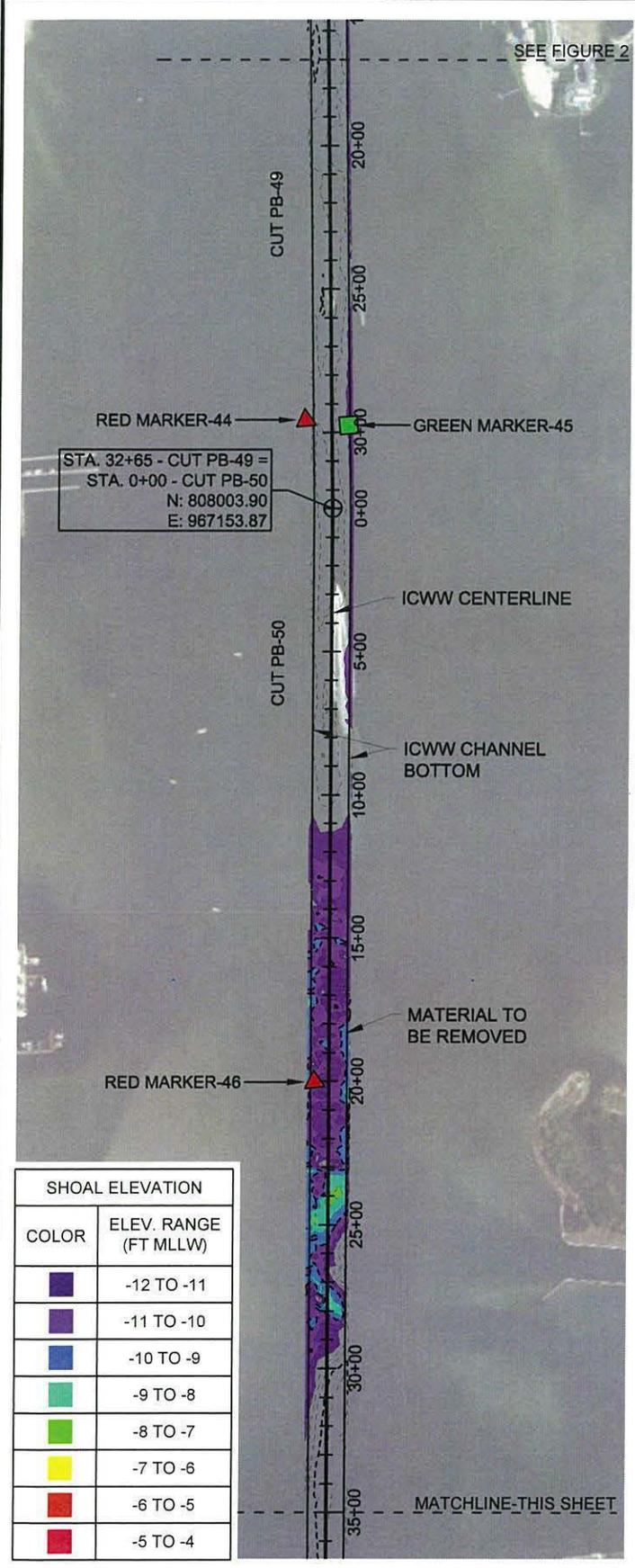
TAYLOR ENGINEERING INC.
10151 DEERWOOD PARK BLVD
BLDG 300, SUITE 300
JACKSONVILLE, FLORIDA 32256
CERTIFICATE OF AUTHORIZATION # 4815

**FIGURE 2
PALM BEACH REACH IV, CUTS PB-47 - PB-49
ICWW MAINTENANCE DREDGING
PALM BEACH AND BROWARD COUNTY, FLORIDA**

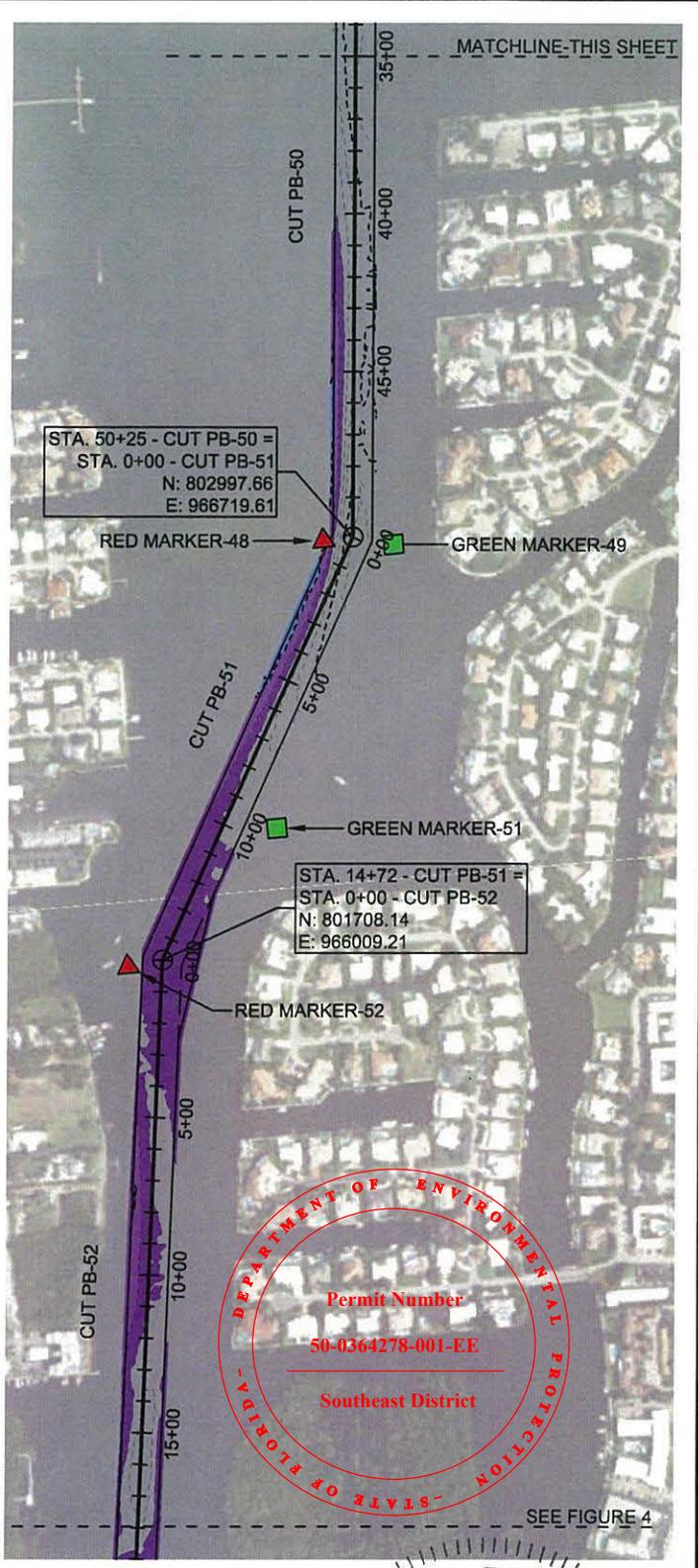
PROFESSIONAL ENGINEER
CORI S. BROWNELL P.E. # 60025
DATE 5/7/2018

PROJECT: C2018-009 DRAWN BY: CAS SHEET: 2 of 22 DATE: 05-04-18

CATHY SHELL X:\SIS\PROJECTS\C2018-009 FIND BROWARD REACH I\PERMIT\C2018-009-P-SHOALING PB DWG 5/7/2018 12:00:23 PM



SHOAL ELEVATION	
COLOR	ELEV. RANGE (FT MLLW)
	-12 TO -11
	-11 TO -10
	-10 TO -9
	-9 TO -8
	-8 TO -7
	-7 TO -6
	-6 TO -5
	-5 TO -4



DEPARTMENT OF ENVIRONMENTAL PROTECTION
 STATE OF FLORIDA
Permit Number
50-0364278-001-EE
Southeast District



AERIAL REFERENCE: FDOT, 2015 No. 60025
 SURVEY REFERENCE: USACE, SEPT. 2010

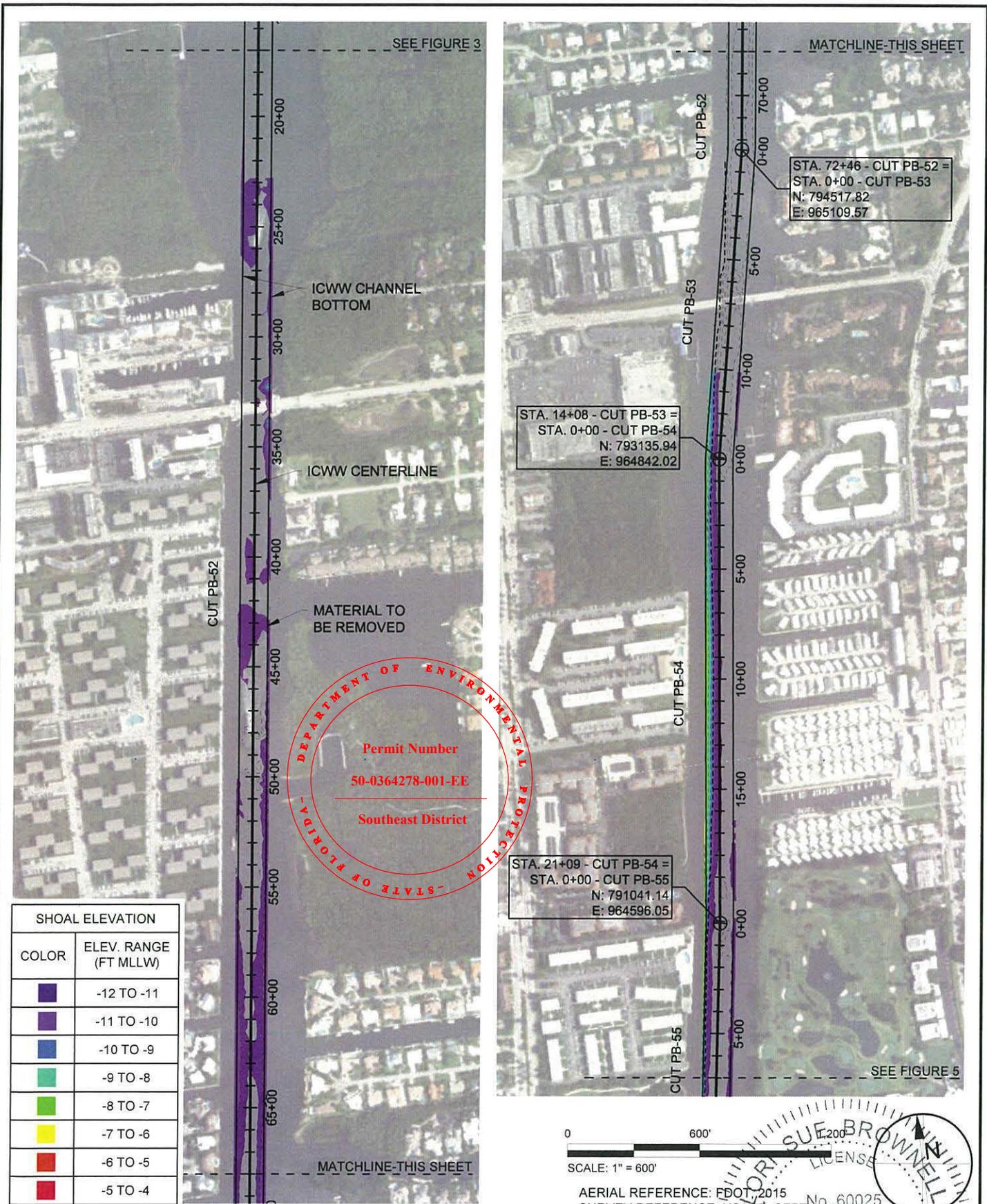
TAYLOR ENGINEERING INC.
 10151 DEERWOOD PARK BLVD
 BLDG 300, SUITE 300
 JACKSONVILLE, FLORIDA 32256
 CERTIFICATE OF AUTHORIZATION # 4815

FIGURE 3
 PALM BEACH REACH IV, CUTS PB-49 - PB-52
 ICWW MAINTENANCE DREDGING
 PALM BEACH AND BROWARD COUNTY, FLORIDA

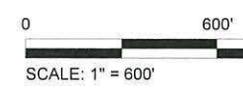
PROJECT	C2018-009	DRAWN BY	CAS	SHEET	3 of 22	DATE	05-04-18
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PROFESSIONAL ENGINEER
 SUE BROWNELL
 LICENSE No. 60025
 STATE OF FLORIDA
 LORIS BROWNELL REV 5/2025

CATHY_SHELL_X:\SIS\PROJECTS\2018-009_FIND BROWARD REACH IV\PERMIT\2018-009-P-SHOALING PB.DWG 5/7/2018 12:00:25 PM



SHOAL ELEVATION	
COLOR	ELEV. RANGE (FT MLLW)
	-12 TO -11
	-11 TO -10
	-10 TO -9
	-9 TO -8
	-8 TO -7
	-7 TO -6
	-6 TO -5
	-5 TO -4



AERIAL REFERENCE: FDOT, 2015
 SURVEY REFERENCE: USACE, SEPT. 2010

TAYLOR ENGINEERING INC.
 10151 DEERWOOD PARK BLVD
 BLDG 300, SUITE 300
 JACKSONVILLE, FLORIDA 32256
 CERTIFICATE OF AUTHORIZATION # 4815

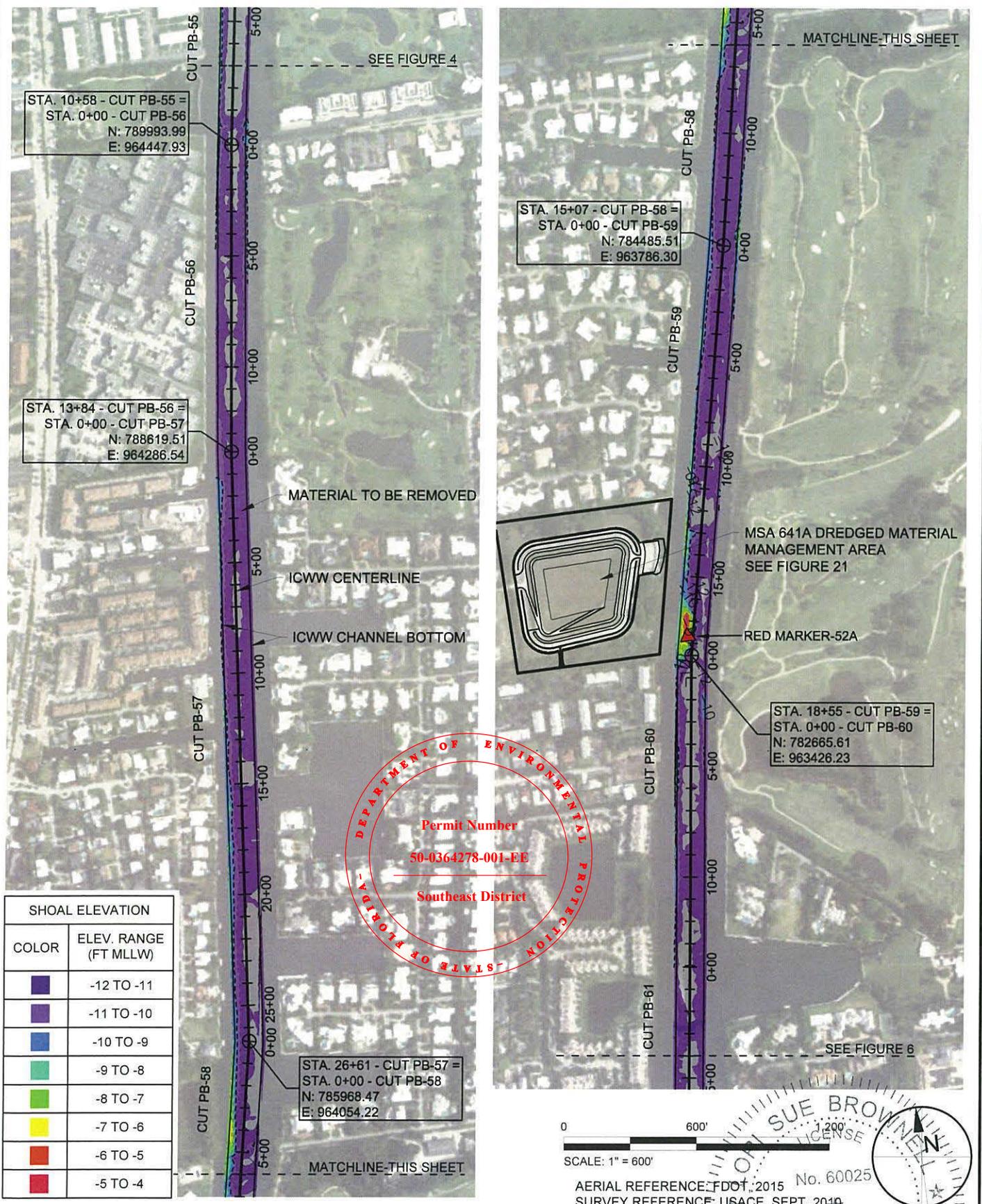
FIGURE 4
 PALM BEACH REACH IV, CUTS PB-52 - PB-55
 ICWW MAINTENANCE DREDGING
 PALM BEACH AND BROWARD COUNTY, FLORIDA

PROJECT	C2018-009	DRAWN BY	CAS	SHEET	4 of 22	DATE	05-04-18
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Professional Engineer Seal: **LORNE BROWNELL**, No. 60025, State of Florida

PRELIMINARY DRAWINGS: THESE DRAWINGS ARE NOT IN FINAL FORM, BUT ARE BEING TRANSMITTED FOR AGENCY REVIEW.

C:\HYDRO\PROJECTS\C2018-009\FIND BROWARD REACH\PERMIT\C2018-009-P-SHOALING PB.DWG 5/7/2018 12:00:29 PM



STA. 10+58 - CUT PB-55 =
 STA. 0+00 - CUT PB-56
 N: 789993.99
 E: 964447.93

STA. 13+84 - CUT PB-56 =
 STA. 0+00 - CUT PB-57
 N: 788619.51
 E: 964286.54

STA. 15+07 - CUT PB-58 =
 STA. 0+00 - CUT PB-59
 N: 784485.51
 E: 963786.30

STA. 18+55 - CUT PB-59 =
 STA. 0+00 - CUT PB-60
 N: 782665.61
 E: 963426.23

STA. 26+61 - CUT PB-57 =
 STA. 0+00 - CUT PB-58
 N: 785968.47
 E: 964054.22

SHOAL ELEVATION	
COLOR	ELEV. RANGE (FT MLLW)
	-12 TO -11
	-11 TO -10
	-10 TO -9
	-9 TO -8
	-8 TO -7
	-7 TO -6
	-6 TO -5
	-5 TO -4

DEPARTMENT OF ENVIRONMENTAL PROTECTION
 STATE OF FLORIDA
 Permit Number
50-0364278-001-EE
 Southeast District

TAYLOR ENGINEERING INC.
 10151 DEERWOOD PARK BLVD
 BLDG 300, SUITE 300
 JACKSONVILLE, FLORIDA 32256
 CERTIFICATE OF AUTHORIZATION # 4815

FIGURE 5
 PALM BEACH REACH IV, CUTS PB-55 - PB-61
 ICWW MAINTENANCE DREDGING
 PALM BEACH AND BROWARD COUNTY, FLORIDA

PROJECT	C2018-009	DRAWN BY	CAS	SHEET	5 of 22	DATE	05-04-18
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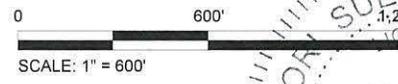
SUE BROWN
 LICENSE
 STATE OF FLORIDA
 5/7/2018
 LORIS BROWN, P.E. #2026

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SHOAL ELEVATION	
COLOR	ELEV. RANGE (FT MLLW)
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	-11 TO -10
	-10 TO -9
	-9 TO -8
	-8 TO -7
	-7 TO -6
	-6 TO -5
	-5 TO -4

DEPARTMENT OF ENVIRONMENTAL PROTECTION
 STATE OF FLORIDA
Permit Number
50-0364278-001-EE
Southeast District



AERIAL REFERENCE: FDOT, 2015 No. 60025
 SURVEY REFERENCE: USACE, SEPT. 2010

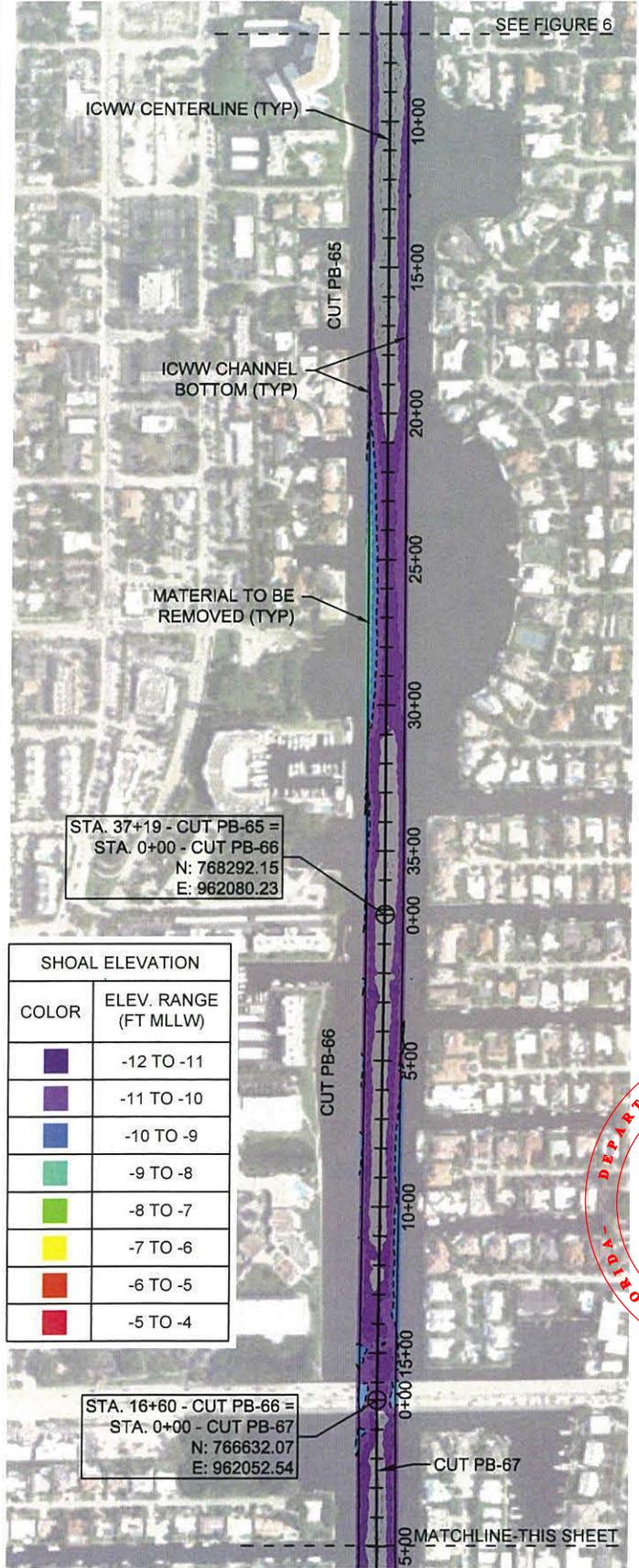
TAYLOR ENGINEERING INC.
 10151 DEERWOOD PARK BLVD
 BLDG 300, SUITE 300
 JACKSONVILLE, FLORIDA 32256
 CERTIFICATE OF AUTHORIZATION # 4815

FIGURE 6
 PALM BEACH REACH IV, CUTS PB-61 - PB-65
 ICWW MAINTENANCE DREDGING
 PALM BEACH AND BROWARD COUNTY, FLORIDA

PROJECT	C2018-009	DRAWN BY	CAS	SHEET	6 of 22	DATE	05-04-18
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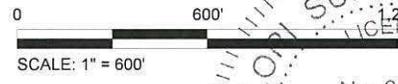
SEAL
 SUE BROWNELL
 LICENSE
 STATE OF FLORIDA
 CIVIL ENGINEER
 5/1/2018
 LORIS BROWNELL PLY BOYS

CATHY_SHELL\S\SYSTEMS\PROJECTS\2018-009\FIND BROWARD REACH\PERMIT\2018-009-P-SHOALING PB2.DWG 5/7/2018 12:00:43 PM



SHOAL ELEVATION	
COLOR	ELEV. RANGE (FT MLLW)
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	-11 TO -10
	-10 TO -9
	-9 TO -8
	-8 TO -7
	-7 TO -6
	-6 TO -5
	-5 TO -4

DEPARTMENT OF ENVIRONMENTAL PROTECTION
 STATE OF FLORIDA
Permit Number
50-0364278-001-EE
Southeast District



AERIAL REFERENCE: FDOT, 2015 No. 60025
 SURVEY REFERENCE: USACE, SEPT. 2010



TAYLOR ENGINEERING INC.
 10151 DEERWOOD PARK BLVD
 BLDG 300, SUITE 300
 JACKSONVILLE, FLORIDA 32256
 CERTIFICATE OF AUTHORIZATION # 4815

FIGURE 7
 PALM BEACH REACH IV, CUTS PB-65 - PB-69
 ICWW MAINTENANCE DREDGING
 PALM BEACH AND BROWARD COUNTY, FLORIDA

PROJECT	DRAWN BY	SHEET	DATE
C2018-009	CAS	7 of 22	05-04-18

SEAL
 SUE BROWNELL
 LICENSE NO. 12007
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 DATE

SEE FIGURE 7

MATCHLINE-THIS SHEET

ICWW CHANNEL
BOTTOM (TYP)

STA. 27+71 - CUT PB-69 =
STA. 0+00 - CUT PB-70
N: 761107.68
E: 962247.66

ICWW CENTERLINE (TYP)

MATERIAL TO BE
REMOVED (TYP)

STA. 16+53 - CUT PB-70 =
STA. 0+00 - CUT PB-71
N: 759477.18
E: 961972.93

DEPARTMENT OF ENVIRONMENTAL PROTECTION
Permit Number
50-0364278-001-EE
Southeast District
STATE OF FLORIDA

STA. 12+90 - CUT PB-72 =
STA. 0+00 - CUT PB-73
N: 755788.12
E: 961106.76

STA. 13+22 - CUT PB-73 =
STA. 0+00 - CUT PB-74
N: 754478.91
E: 960924.22

STA. 12+34 - CUT PB-74 =
STA. 0+00 - CUT PB-75
N: 753262.61
E: 961134.53

STA. 25+43 - CUT PB-71 =
STA. 0+00 - CUT PB-72
N: 757077.95
E: 961129.45

SEE FIGURE 9

SHOAL ELEVATION	
COLOR	ELEV. RANGE (FT MLLW)
	-12 TO -11
	-11 TO -10
	-10 TO -9
	-9 TO -8
	-8 TO -7
	-7 TO -6
	-6 TO -5
	-5 TO -4



SCALE: 1" = 600'

AERIAL REFERENCE: FDOT, 2015
SURVEY REFERENCE: USACE, SEPT. 2010

No. 60025

TAYLOR ENGINEERING INC.
10151 DEERWOOD PARK BLVD
BLDG 300, SUITE 300
JACKSONVILLE, FLORIDA 32256
CERTIFICATE OF AUTHORIZATION # 4815

FIGURE 8
PALM BEACH REACH IV, CUTS PB-69 - PB-75
ICWW MAINTENANCE DREDGING
PALM BEACH AND BROWARD COUNTY, FLORIDA

PROJECT: C2018-009 DRAWN BY: CAS SHEET: 8 of 22 DATE: 05-04-18

Professional Engineer Seal for Sue Brown, License No. 60025, dated 5/23/18.

SEE FIGURE 8

STA. 14+78 - CUT PB-75 =
 STA. 0+00 - CUT PB-76
 N: 751923.96
 E: 960507.46

ICWW CENTERLINE (TYP)
 ICWW CHANNEL
 BOTTOM (TYP)

MATERIAL TO BE
 REMOVED (TYP)

STA. 17+32 - CUT PB-76 =
 STA. 0+00 - CUT PB-77
 N: 750192.55
 E: 960454.30

STA. 27+60 - CUT PB-77 =
 STA. 0+00 - CUT PB-78
 N: 747433.92
 E: 960370.28

SHOAL ELEVATION	
COLOR	ELEV. RANGE (FT MLLW)
	-12 TO -11
	-11 TO -10
	-10 TO -9
	-9 TO -8
	-8 TO -7
	-7 TO -6
	-6 TO -5
	-5 TO -4



MATCHLINE-THIS SHEET

RED MARKER-54

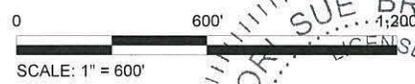
STA. 26+20 - CUT PB-78 =
 STA. 0+00 - CUT PB-79
 N: 744813.61
 E: 960373.78

RED MARKER-56

STA. 21+24 - CUT PB-79 =
 STA. 0+00 - CUT PB-80
 N: 742830.08
 E: 959613.29

SEE FIGURE 10

GREEN MARKER-57



AERIAL REFERENCE: FDOT, 2015 No. 60025
 SURVEY REFERENCE: USACE, SEPT. 2010

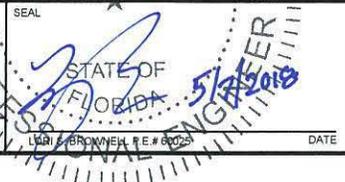


TAYLOR ENGINEERING INC.

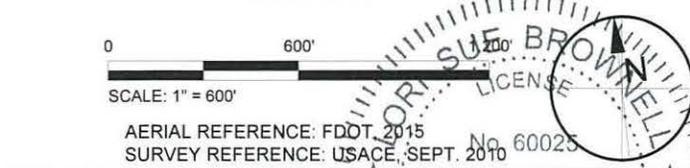
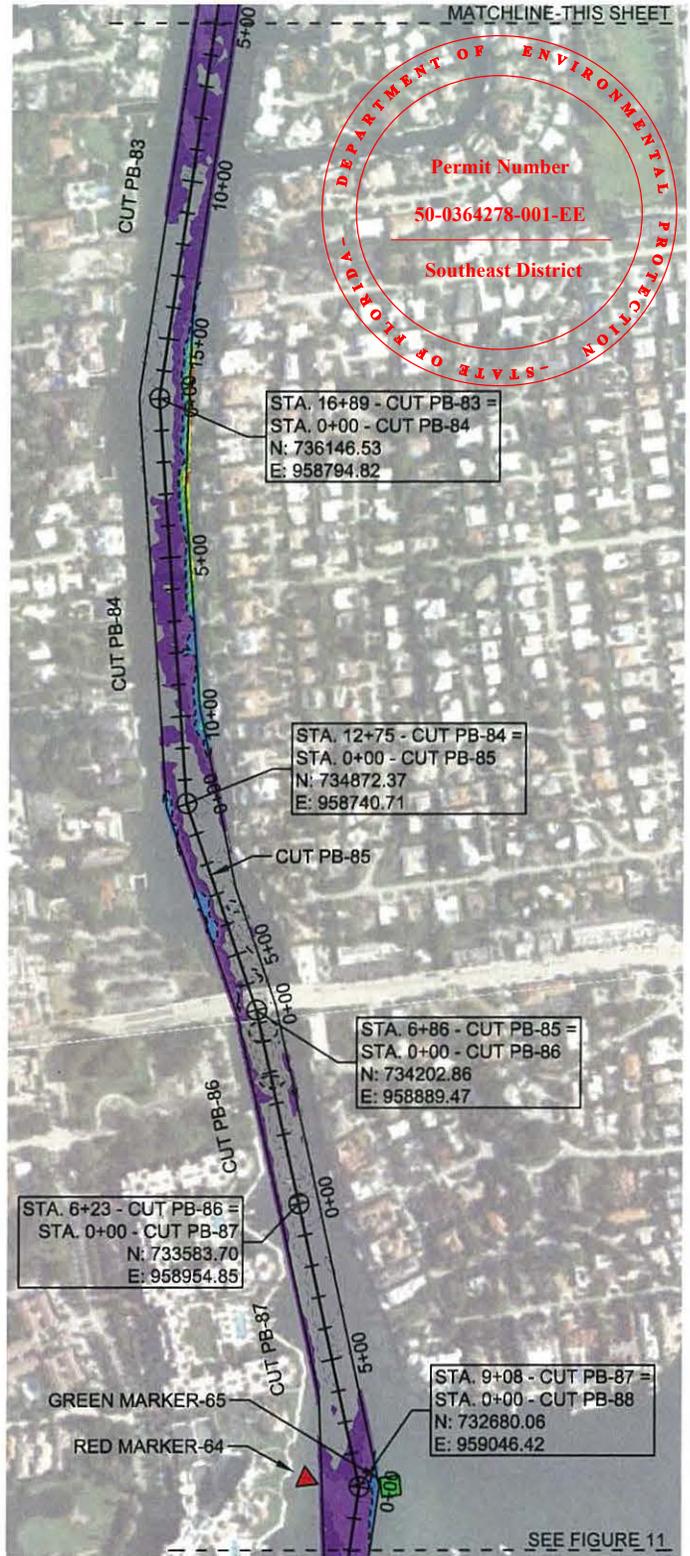
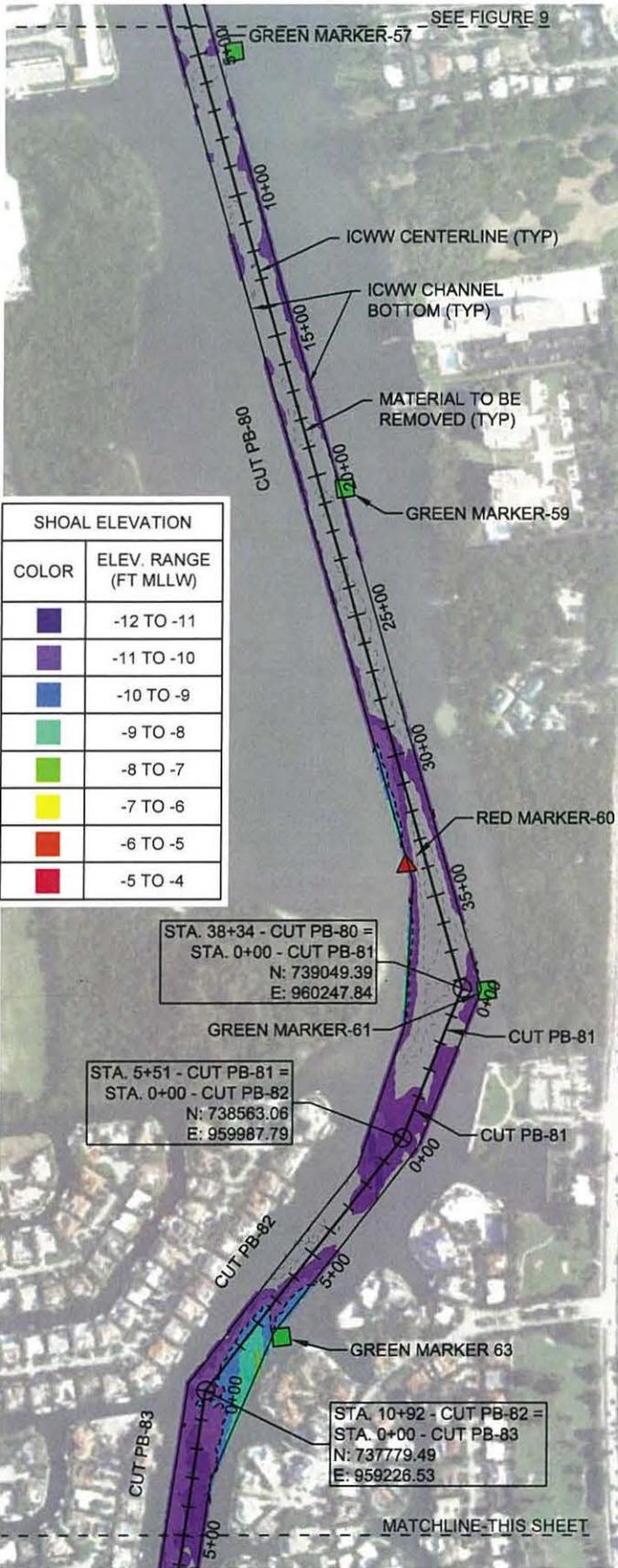
10151 DEERWOOD PARK BLVD
 BLDG 300, SUITE 300
 JACKSONVILLE, FLORIDA 32256
 CERTIFICATE OF AUTHORIZATION # 4815

FIGURE 9
 PALM BEACH REACH IV, CUTS PB-75 - PB-80
 ICWW MAINTENANCE DREDGING
 PALM BEACH AND BROWARD COUNTY, FLORIDA

PROJECT	DRAWN BY	SHEET	DATE	SCALE	DATE
C2018-009	CAS	9 of 22	05-04-18	1" = 600'	5/14/2018



CATHY SHELL X:\SIS\PROJECTS\C2018-009 FIND BROWARD REACH\PERMIT\C2018-009-P-SHOALING PB2.DWG 5/7/2018 12:00:47 PM



AERIAL REFERENCE: FDOT 2015
 SURVEY REFERENCE: USACE, SEPT. 2010

FIGURE 10
 PALM BEACH REACH IV, CUTS PB-80 - PB-88
 ICWW MAINTENANCE DREDGING
 PALM BEACH AND BROWARD COUNTY, FLORIDA

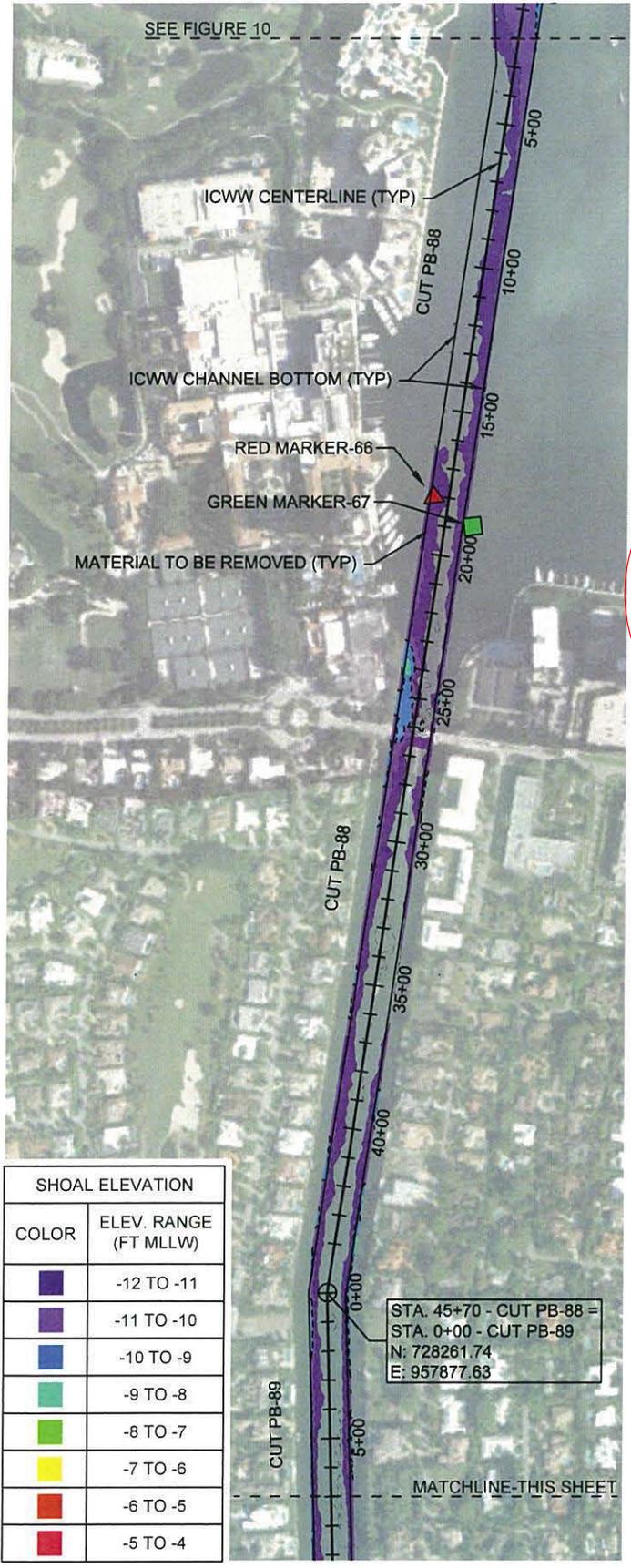
PROJECT: C2018-009
 DRAWN BY: CAS
 SHEET: 10 of 22
 DATE: 05-04-18

STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 No. 60025
 5/12/2018

TAYLOR ENGINEERING INC.
 10151 DEERWOOD PARK BLVD
 BLDG 300, SUITE 300
 JACKSONVILLE, FLORIDA 32256
 CERTIFICATE OF AUTHORIZATION # 4815

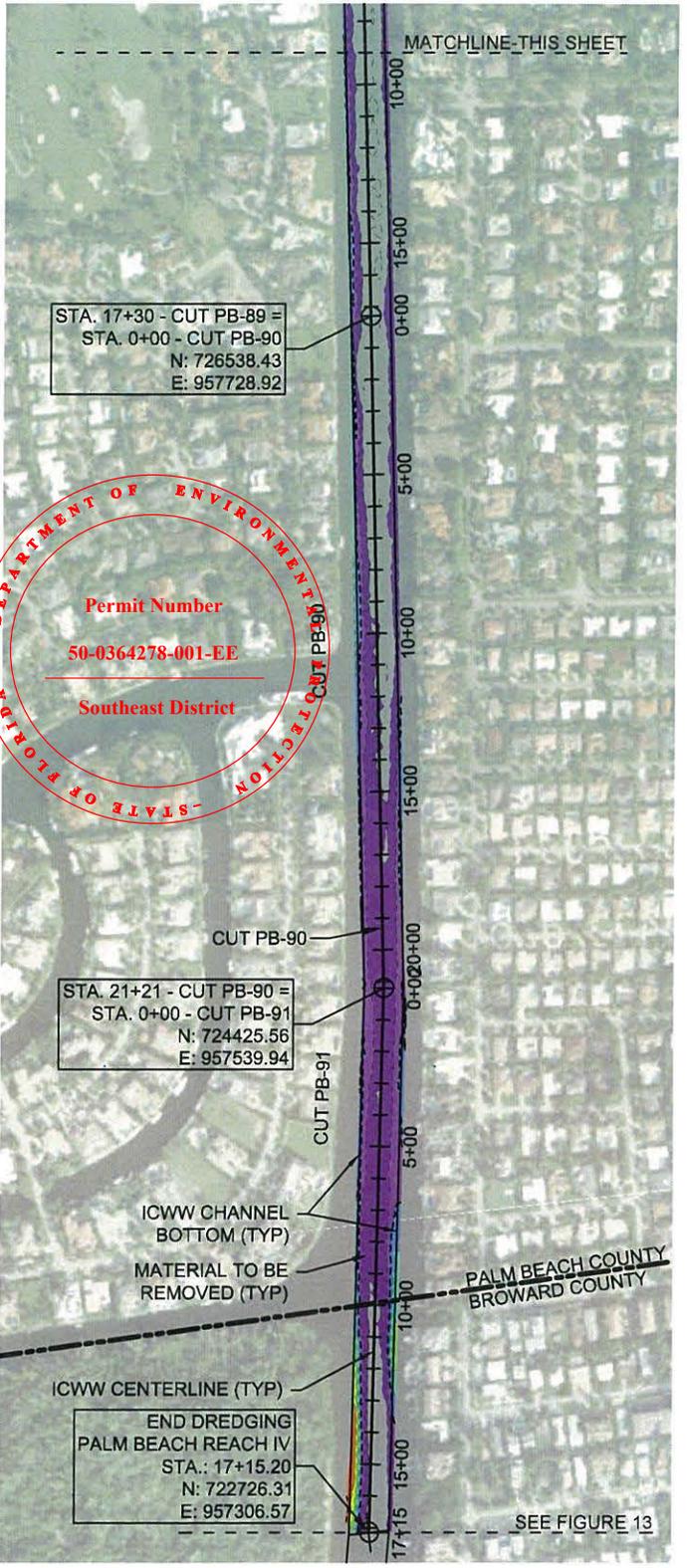
CATHY SHELL X:\SIS\PROJECTS\C2018-009 FIND BROWARD REACH\IPERMIT\C2018-009-P-SHOALING PB2.DWG 5/7/2018 12:00:50 PM

CATHY SHELL X:\SIS\PROJECTS\C2018-009 FIND BROWARD REACH I\PERMIT\C2018-009-P-SHOALING PB2.DWG, 5/7/2018 12:00:52 PM



SHOAL ELEVATION	
COLOR	ELEV. RANGE (FT MLLW)
	-12 TO -11
	-11 TO -10
	-10 TO -9
	-9 TO -8
	-8 TO -7
	-7 TO -6
	-6 TO -5
	-5 TO -4

STA. 45+70 - CUT PB-88 =
 STA. 0+00 - CUT PB-89
 N: 728261.74
 E: 957877.63



FLORIDA DEPARTMENT OF ENVIRONMENT
 Permit Number
 50-0364278-001-EE
 Southeast District

STA. 21+21 - CUT PB-90 =
 STA. 0+00 - CUT PB-91
 N: 724425.56
 E: 957539.94

END DREDGING
 PALM BEACH REACH IV
 STA.: 17+15.20
 N: 722726.31
 E: 957306.57

0 600' 1,200'
 SCALE: 1" = 600'
 AERIAL REFERENCE: FDOT, 2015
 SURVEY REFERENCE: USACE, SEPT. 2010

TAYLOR ENGINEERING INC.
 10151 DEERWOOD PARK BLVD
 BLDG 300, SUITE 300
 JACKSONVILLE, FLORIDA 32256
 CERTIFICATE OF AUTHORIZATION # 4815

FIGURE 11
 PALM BEACH REACH IV, CUTS PB-88 - PB-91
 ICWW MAINTENANCE DREDGING
 PALM BEACH AND BROWARD COUNTY, FLORIDA

PROJECT	C2018-009	DRAWN BY	CAS	SHEET	11 of 22	DATE	05-04-18
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Professional Engineer Seal for **LORIS BROWNELL**, License No. 60025, State of Florida. The seal includes the text 'FLORIDA PROFESSIONAL ENGINEER' and 'LICENSE NO. 60025'. A signature is written over the seal with the date '5/7/2018'.

PALM BEACH COUNTY
BROWARD COUNTY

FIG 13

FIG 14

FIG 15

FIG 16

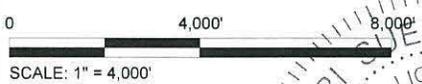
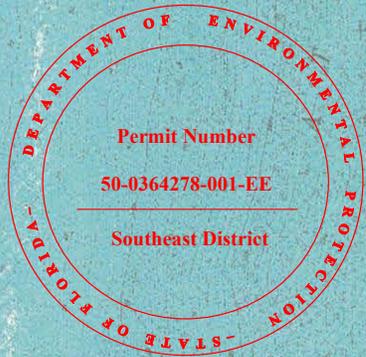
FIG 17

FIG 18

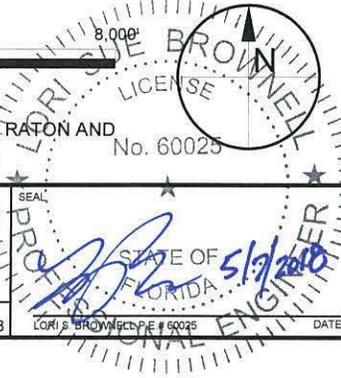
FIG 19

FIG 20

MSA 726 DREDGED MATERIAL
MANAGEMENT AREA
SEE FIGURE 22



QUAD REFERENCES: BOCA RATON AND
POMPANO BEACH, FL, 1986



TAYLOR ENGINEERING INC.
 10151 DEERWOOD PARK BLVD
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 JACKSONVILLE, FLORIDA 32256
 CERTIFICATE OF AUTHORIZATION # 4815

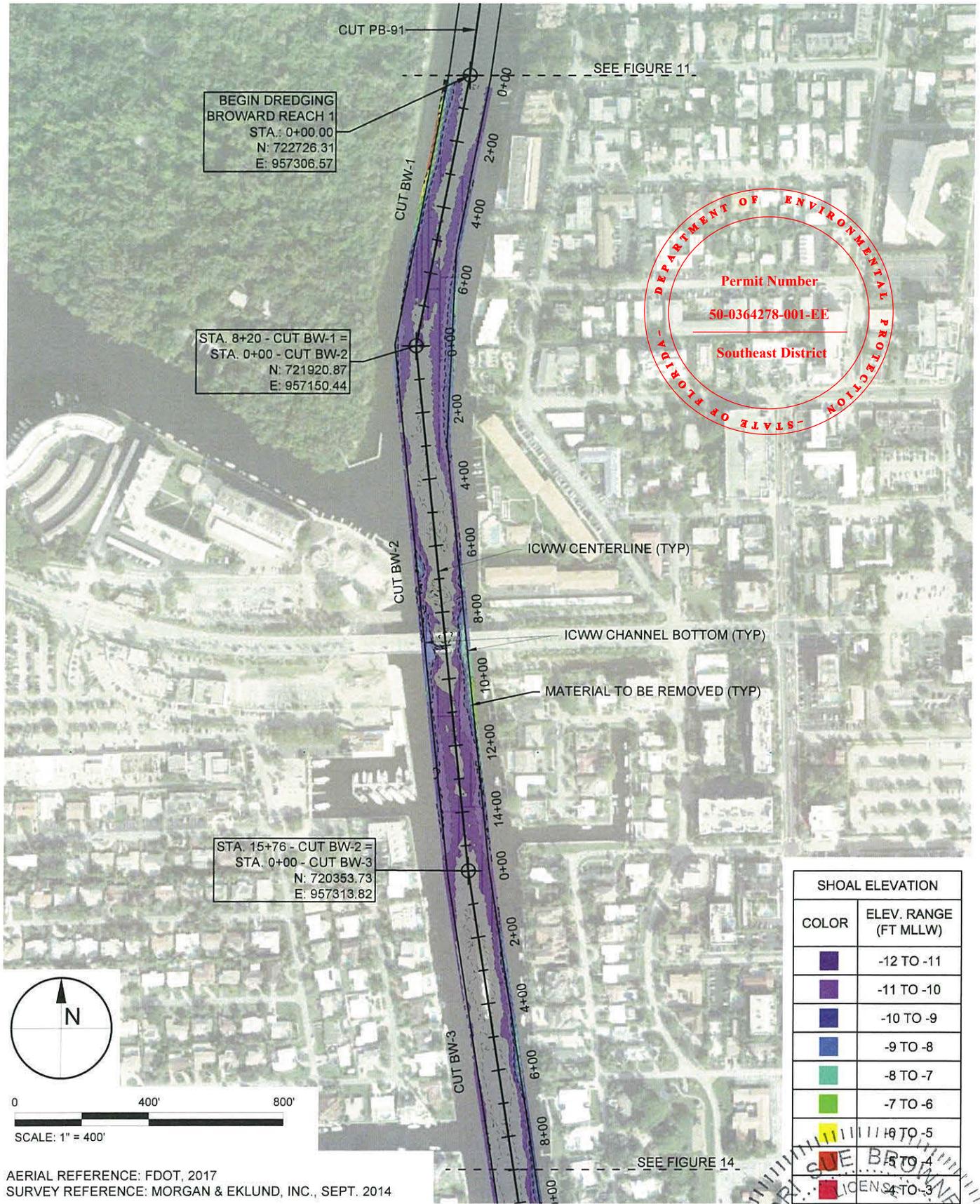
FIGURE 12
BROWARD REACH I, CUTS BW-1 - BW-22
ICWW MAINTENANCE DREDGING
PALM BEACH AND BROWARD COUNTY, FLORIDA

PROJECT	DRAWN BY	SHEET	DATE
C2018-009	CAS	12 of 22	05-04-18

CATHY SHELL_X:\SIS\PROJECTS\C2018-009 FIND BROWARD REACH I\PERMIT\C2018-009-P-LOCATION MAP BROWARD.DWG 5/7/2018 12:00:57 PM

PRELIMINARY DRAWINGS: THESE DRAWINGS ARE NOT IN FINAL FORM, BUT ARE BEING TRANSMITTED FOR AGENCY REVIEW.

CATHY SHELL X:\SYS\PROJECTS\C2018-009 FIND BROWARD REACH I\PERMIT\C2018-009-P-SHOALING BROWARD DWG 5/7/2018 12:00:59 PM



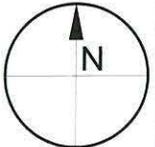
BEGIN DREDGING
BROWARD REACH 1
STA: 0+00.00
N: 722726.31
E: 957306.57

STA. 8+20 - CUT BW-1 =
STA. 0+00 - CUT BW-2
N: 721920.87
E: 957150.44

STA. 15+76 - CUT BW-2 =
STA. 0+00 - CUT BW-3
N: 720353.73
E: 957313.82

DEPARTMENT OF ENVIRONMENTAL PROTECTION
STATE OF FLORIDA
Permit Number
50-0364278-001-EE
Southeast District

SHOAL ELEVATION	
COLOR	ELEV. RANGE (FT MLLW)
	-12 TO -11
	-11 TO -10
	-10 TO -9
	-9 TO -8
	-8 TO -7
	-7 TO -6
	-6 TO -5
	-5 TO -4
	-4 TO -3
	-3 TO -2



AERIAL REFERENCE: FDOT, 2017
SURVEY REFERENCE: MORGAN & EKLUND, INC., SEPT. 2014

TAYLOR ENGINEERING INC.
10151 DEERWOOD PARK BLVD
BLDG 300, SUITE 300
JACKSONVILLE, FLORIDA 32256
CERTIFICATE OF AUTHORIZATION # 4815

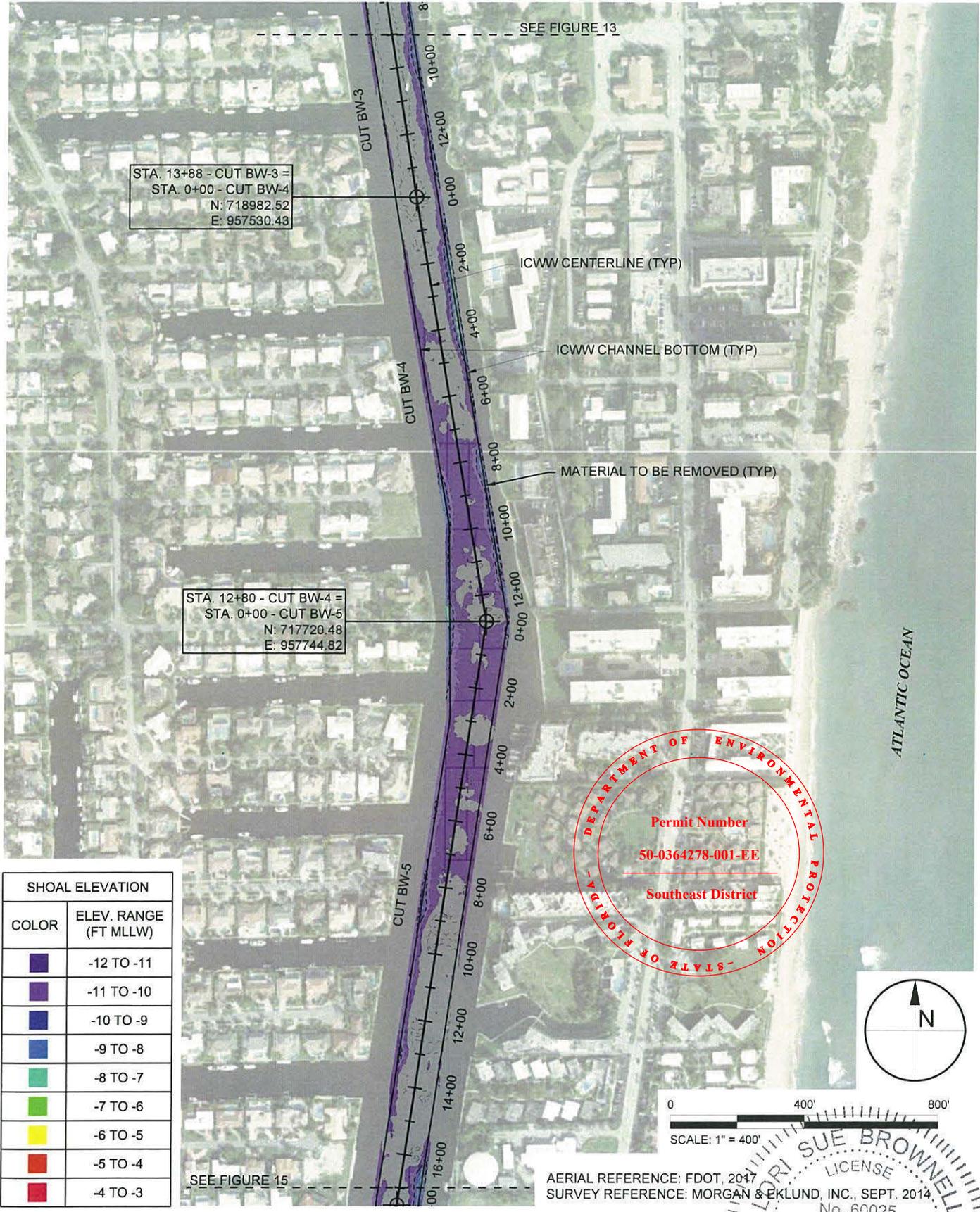
FIGURE 13
BROWARD REACH I, CUTS BW-1 - BW-3
ICWW MAINTENANCE DREDGING
PALM BEACH AND BROWARD COUNTY, FLORIDA

PROJECT	DRAWN BY	SHEET	DATE
C2018-009	CAS	13 of 22	05-04-18

No. 60025
5/7/2018
STATE OF FLORIDA
PROFESSIONAL ENGINEER
LORIS BROWNELL, P.E. # 60025

PRELIMINARY DRAWINGS: THESE DRAWINGS ARE NOT IN FINAL FORM, BUT ARE BEING TRANSMITTED FOR AGENCY REVIEW.

CATHY SHELL_X:\SIS\PROJECTS\C2018-009 FIND BROWARD REACH I\PERMIT\C2018-009-P-SHOALING BROWARD.DWG 5/7/2018 12:01:03 PM

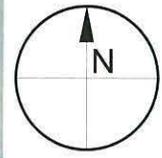


STA. 13+88 - CUT BW-3 =
 STA. 0+00 - CUT BW-4
 N: 718982.52
 E: 957530.43

STA. 12+80 - CUT BW-4 =
 STA. 0+00 - CUT BW-5
 N: 717720.48
 E: 957744.82

SHOAL ELEVATION	
COLOR	ELEV. RANGE (FT MLLW)
	-12 TO -11
	-11 TO -10
	-10 TO -9
	-9 TO -8
	-8 TO -7
	-7 TO -6
	-6 TO -5
	-5 TO -4
	-4 TO -3

DEPARTMENT OF ENVIRONMENTAL PROTECTION
 Permit Number
50-0364278-001-EE
 Southeast District
 STATE OF FLORIDA



0 400' 800'
 SCALE: 1" = 400'

AERIAL REFERENCE: FDOT, 2017
 SURVEY REFERENCE: MORGAN & EKLUND, INC., SEPT. 2014
 No. 60025

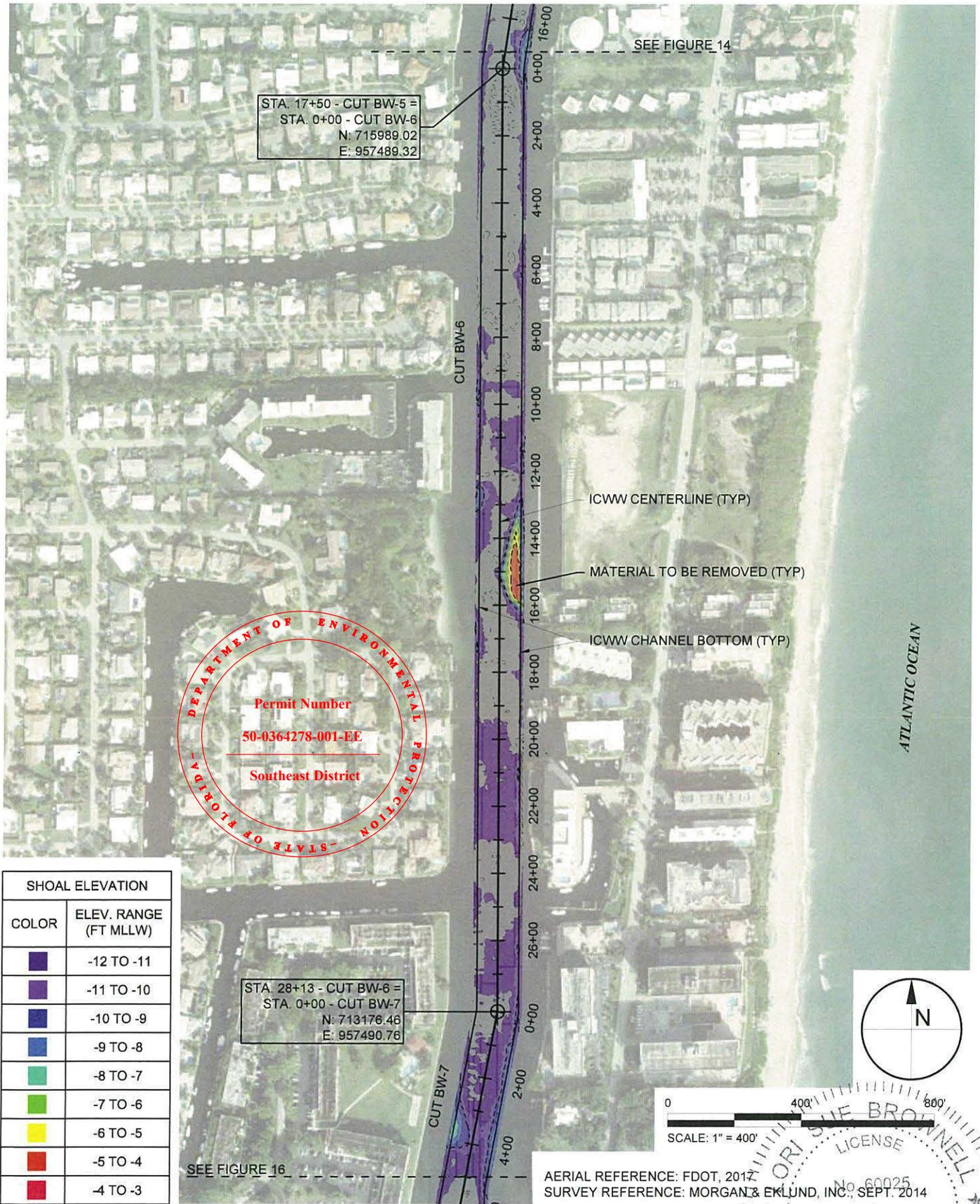
TAYLOR ENGINEERING INC.
 10151 DEERWOOD PARK BLVD
 BLDG 300, SUITE 300
 JACKSONVILLE, FLORIDA 32256
 CERTIFICATE OF AUTHORIZATION # 4815

FIGURE 14
 BROWARD REACH I, CUTS BW-3 - BW-5
 ICWW MAINTENANCE DREDGING
 PALM BEACH AND BROWARD COUNTY, FLORIDA

PROJECT	DRAWN BY	SHEET	DATE
C2018-009	CAS	14 of 22	05-04-18

LORI SUE BROWNELL
 LICENSE
 STATE OF FLORIDA
 No. 60025
 5/7/2018
 PROFESSIONAL ENGINEER

CATHY SHELL X:\SIS\PROJECTS\2018-009 FIND BROWARD REACH I\PERMIT\2018-009-P-SHOALING BROWARD.DWG 5/7/2018 12:01:05 PM



STA. 17+50 - CUT BW-5 =
 STA. 0+00 - CUT BW-6
 N: 715989.02
 E: 957489.32

DEPARTMENT OF ENVIRONMENTAL PROTECTION
 STATE OF FLORIDA
 Permit Number
50-0364278-001-EE
 Southeast District

SHOAL ELEVATION	
COLOR	ELEV. RANGE (FT MLLW)
	-12 TO -11
	-11 TO -10
	-10 TO -9
	-9 TO -8
	-8 TO -7
	-7 TO -6
	-6 TO -5
	-5 TO -4
	-4 TO -3

STA. 28+13 - CUT BW-6 =
 STA. 0+00 - CUT BW-7
 N: 713176.46
 E: 957490.76

SEE FIGURE 16

AERIAL REFERENCE: FDOT, 2017
 SURVEY REFERENCE: MORGAN & EKLUND, INC., SEPT. 2014



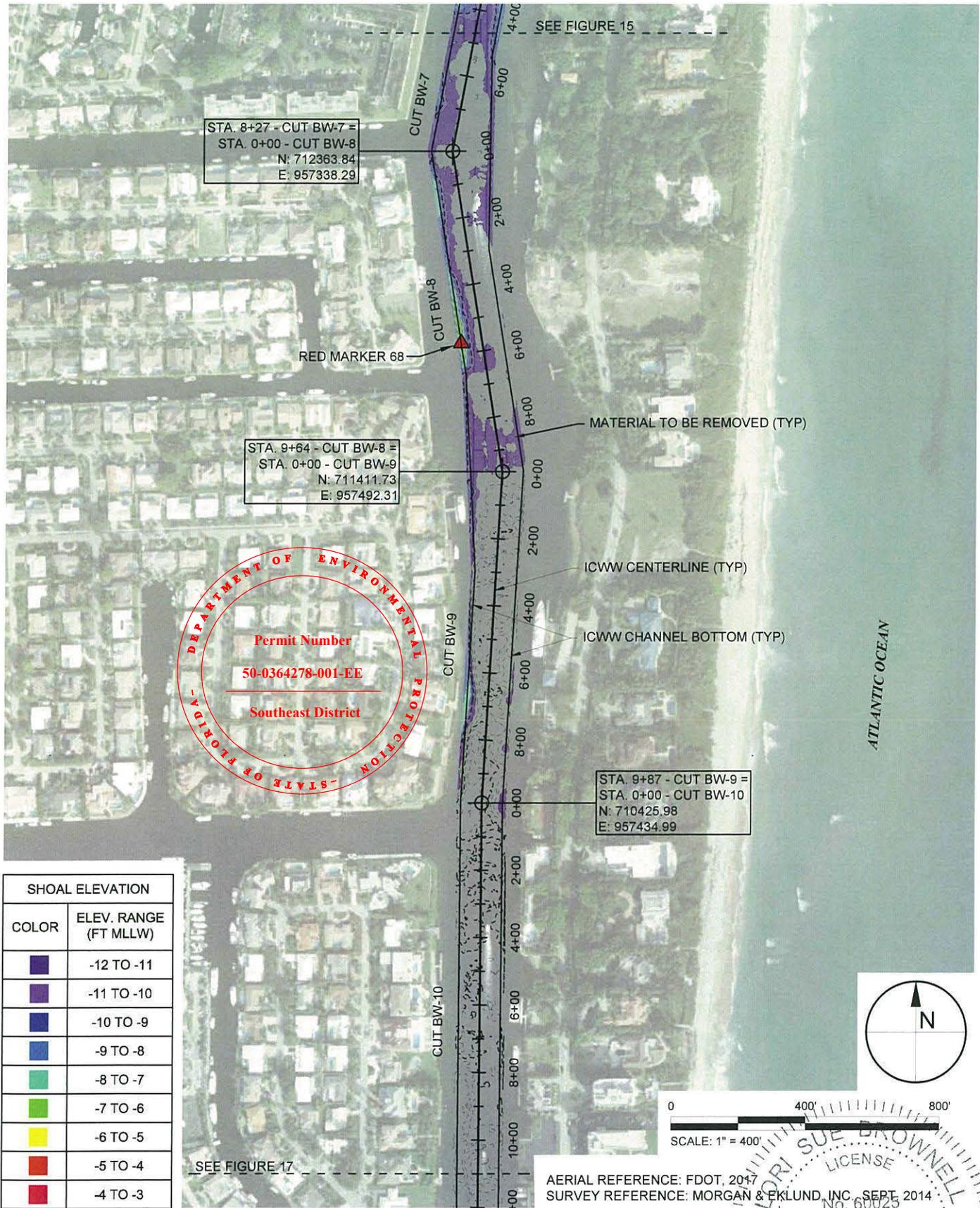
TAYLOR ENGINEERING INC.
 10151 DEERWOOD PARK BLVD
 BLDG 300, SUITE 300
 JACKSONVILLE, FLORIDA 32256
 CERTIFICATE OF AUTHORIZATION # 4815

FIGURE 15
 BROWARD REACH I, CUTS BW-5 - BW-7
 ICWW MAINTENANCE DREDGING
 PALM BEACH AND BROWARD COUNTY, FLORIDA

PROJECT	DRAWN BY	SHEET	DATE
C2018-009	CAS	15 of 22	05-04-18

LORI S. BROWNELL
 LICENSE No. 60025
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 DATE 5/9/2018

CATHY SHELL X:\SIS\PROJECTS\2018-009 FIND BROWARD REACH I\PERMIT\2018-009-P-SHOALING BROWARD DWG 5/7/2018 12:01:08 PM



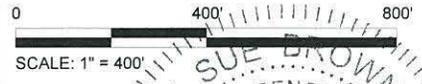
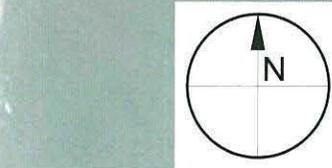
STA. 8+27 - CUT BW-7 =
 STA. 0+00 - CUT BW-8
 N: 712363.84
 E: 957338.29

STA. 9+64 - CUT BW-8 =
 STA. 0+00 - CUT BW-9
 N: 711411.73
 E: 957492.31

STA. 9+87 - CUT BW-9 =
 STA. 0+00 - CUT BW-10
 N: 710425.98
 E: 957434.99

DEPARTMENT OF ENVIRONMENTAL PROTECTION
 STATE OF FLORIDA
Permit Number
50-0364278-001-EE
Southeast District

SHOAL ELEVATION	
COLOR	ELEV. RANGE (FT MLLW)
	-12 TO -11
	-11 TO -10
	-10 TO -9
	-9 TO -8
	-8 TO -7
	-7 TO -6
	-6 TO -5
	-5 TO -4
	-4 TO -3



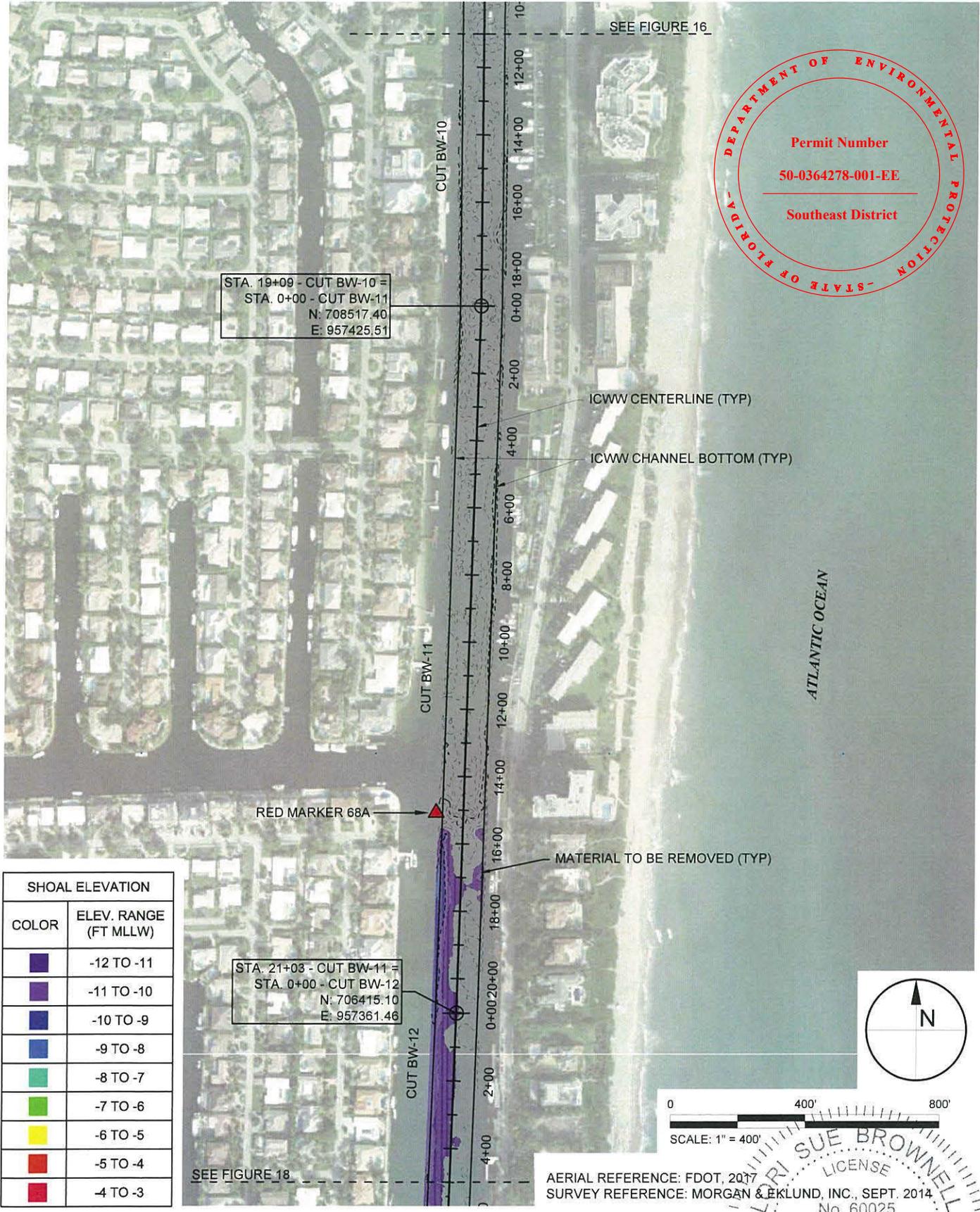
AERIAL REFERENCE: FDOT, 2017
 SURVEY REFERENCE: MORGAN & EKLUND, INC., SEPT, 2014
 No. 60025

TAYLOR ENGINEERING INC.
 10151 DEERWOOD PARK BLVD
 BLDG 300, SUITE 300
 JACKSONVILLE, FLORIDA 32256
 CERTIFICATE OF AUTHORIZATION # 4815

FIGURE 16
 BROWARD REACH I, CUTS BW-7 - BW-10
 ICWW MAINTENANCE DREDGING
 PALM BEACH AND BROWARD COUNTY, FLORIDA

PROJECT	DRAWN BY	SHEET	DATE
C2018-009	CAS	16 of 22	05-04-18

LORI S. BROWNELL
 LICENSE
 No. 60025
 PROFESSIONAL ENGINEER
 STATE OF FLORIDA
 5/7/2018



SHOAL ELEVATION	
COLOR	ELEV. RANGE (FT MLLW)
	-12 TO -11
	-11 TO -10
	-10 TO -9
	-9 TO -8
	-8 TO -7
	-7 TO -6
	-6 TO -5
	-5 TO -4
	-4 TO -3

STA. 19+09 - CUT BW-10 =
 STA. 0+00 - CUT BW-11
 N: 708517.40
 E: 957425.51

STA. 21+03 - CUT BW-11 =
 STA. 0+00 - CUT BW-12
 N: 706415.10
 E: 957361.46

DEPARTMENT OF ENVIRONMENTAL PROTECTION
 STATE OF FLORIDA
Permit Number
50-0364278-001-EE
 Southeast District

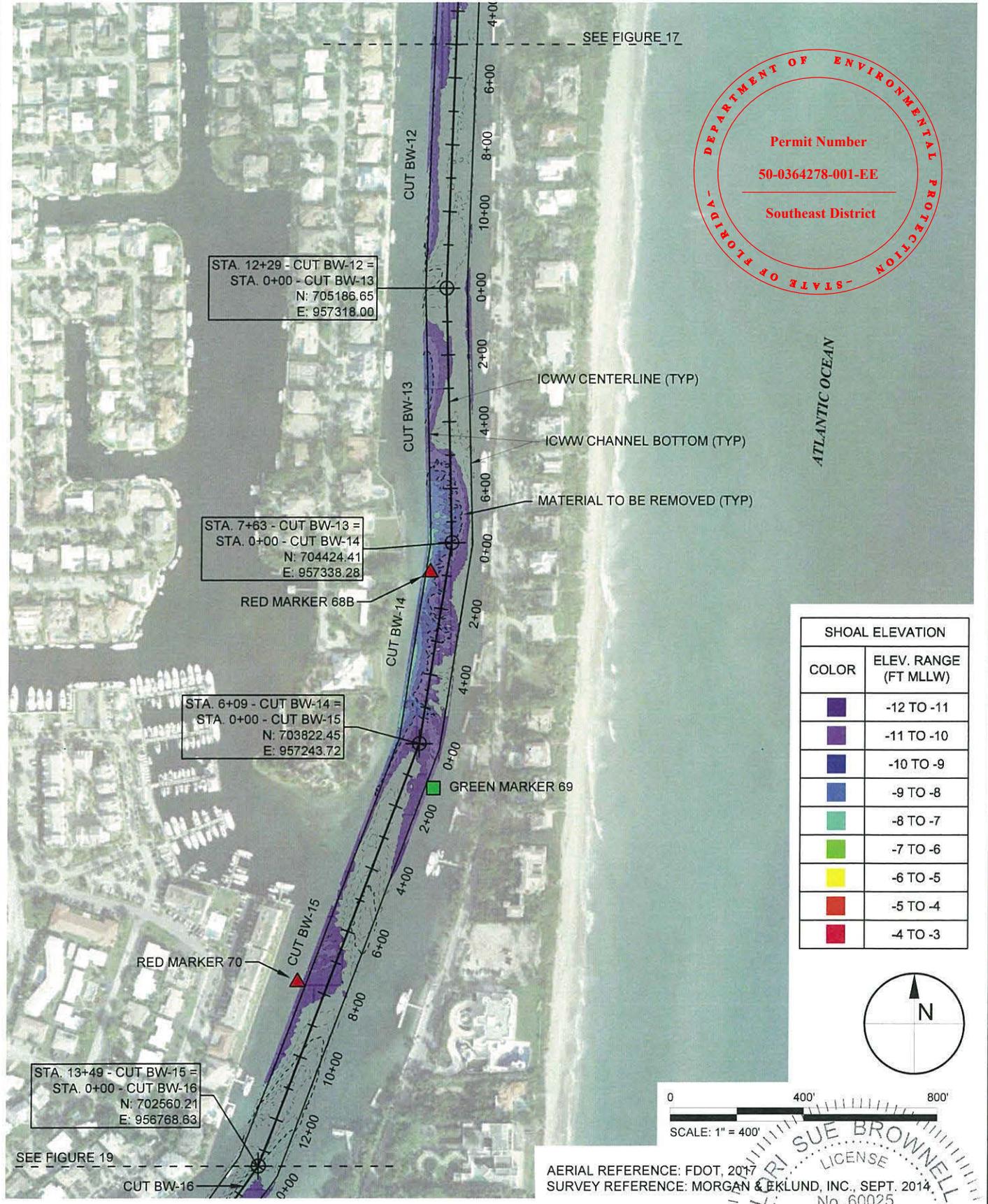
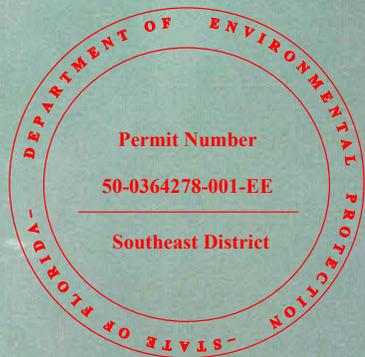
TAYLOR ENGINEERING INC.
 10151 DEERWOOD PARK BLVD
 BLDG 300, SUITE 300
 JACKSONVILLE, FLORIDA 32256
 CERTIFICATE OF AUTHORIZATION # 4815

FIGURE 17
 BROWARD REACH I, CUTS BW-10 - BW-12
 ICWW MAINTENANCE DREDGING
 PALM BEACH AND BROWARD COUNTY, FLORIDA

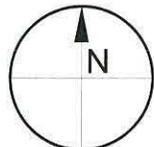
PROJECT	C2018-009	DRAWN BY	CAS	SHEET	17 of 22	DATE	05-04-18
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SUE BROWNELL
 LICENSE
 No. 60025
 5/7/2018
 PROFESSIONAL ENGINEER

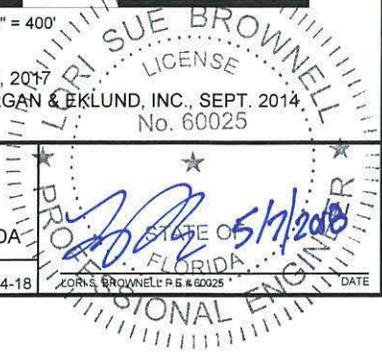
CATHY SHELL_X:\SYSTEMS\PROJECTS\C2018-009_FIND BROWARD REACH I\PERMIT\C2018-009-P-SHOALING BROWARD.DWG 5/7/2018 12:01:10 PM



SHOAL ELEVATION	
COLOR	ELEV. RANGE (FT MLLW)
	-12 TO -11
	-11 TO -10
	-10 TO -9
	-9 TO -8
	-8 TO -7
	-7 TO -6
	-6 TO -5
	-5 TO -4
	-4 TO -3



AERIAL REFERENCE: FDOT, 2017
 SURVEY REFERENCE: MORGAN & EKLUND, INC., SEPT. 2014
 No. 60025



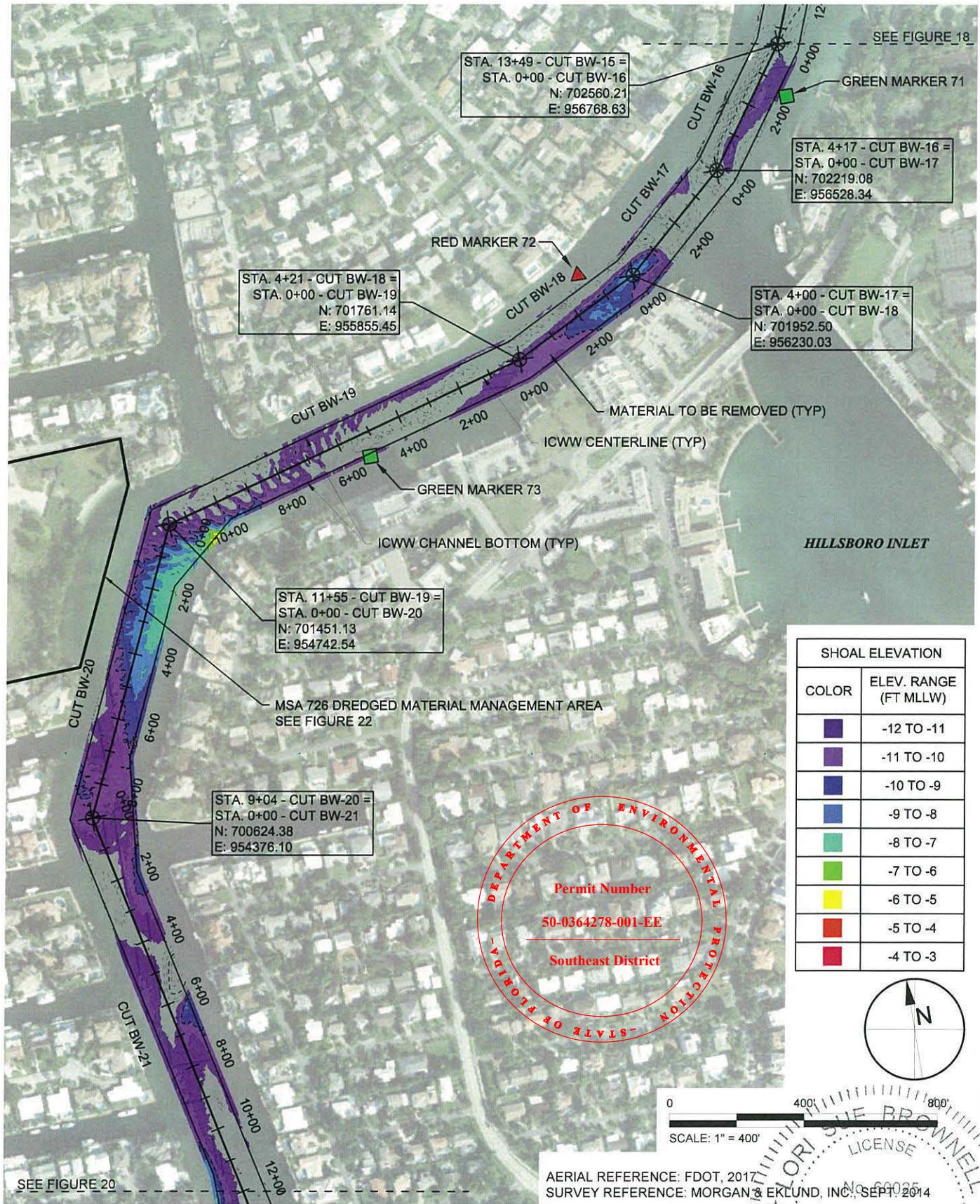
TAYLOR ENGINEERING INC.
 10151 DEERWOOD PARK BLVD
 BLDG 300, SUITE 300
 JACKSONVILLE, FLORIDA 32256
 CERTIFICATE OF AUTHORIZATION # 4815

FIGURE 18
 BROWARD REACH I, CUTS BW-12 - BW-15
 ICWW MAINTENANCE DREDGING
 PALM BEACH AND BROWARD COUNTY, FLORIDA

PROJECT	DRAWN BY	SHEET	DATE
C2018-009	CAS	18 of 22	05-04-18

CATHY SHELL_X:\ISYS\PROJECTS\C2018-009\FIND BROWARD REACH\PERMIT\C2018-009-P-SHOALING BROWARD.DWG 5/7/2018 12:01:13 PM

PRELIMINARY DRAWINGS: THESE DRAWINGS ARE NOT IN FINAL FORM, BUT ARE BEING TRANSMITTED FOR AGENCY REVIEW.



CATHY SHELL XLSYS\PROJECTS\C2018-009 FIND BROWARD REACH I\PERMIT\C2018-009-P-SHOALING BROWARD DWG 57\2018 12.01.16 PM

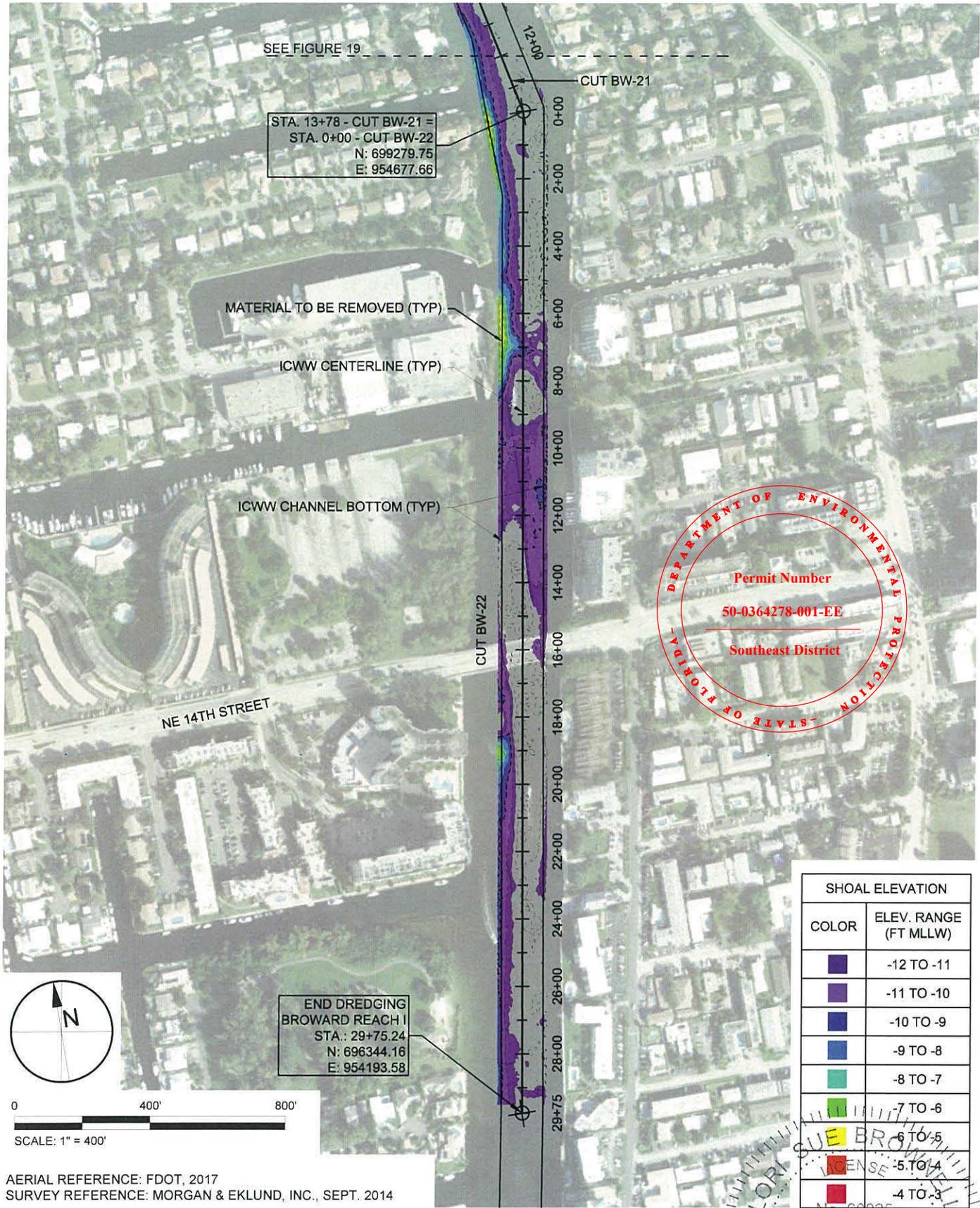
TAYLOR ENGINEERING INC.
 10151 DEERWOOD PARK BLVD
 BLDG 300, SUITE 300
 JACKSONVILLE, FLORIDA 32256
 CERTIFICATE OF AUTHORIZATION # 4815

FIGURE 19
 BROWARD REACH I, CUTS BW-16 - BW-21
 ICWW MAINTENANCE DREDGING
 PALM BEACH AND BROWARD COUNTY, FLORIDA

PROJECT	DRAWN BY	SHEET	DATE
C2018-009	CAS	19 of 22	05-04-18

PROFESSIONAL ENGINEER
 STATE OF FLORIDA
 LICENSE NO. 6995
 LORI S. BROWNELL
 5/11/2018

PRELIMINARY DRAWINGS: THESE DRAWINGS ARE NOT IN FINAL FORM, BUT ARE BEING TRANSMITTED FOR AGENCY REVIEW.



SEE FIGURE 19

STA. 13+78 - CUT BW-21 =
 STA. 0+00 - CUT BW-22
 N: 699279.75
 E: 954677.66

MATERIAL TO BE REMOVED (TYP)

ICWW CENTERLINE (TYP)

ICWW CHANNEL BOTTOM (TYP)

NE 14TH STREET

DEPARTMENT OF ENVIRONMENTAL PROTECTION
 STATE OF FLORIDA

Permit Number
 50-0364278-001-EE

Southeast District

END DREDGING
 BROWARD REACH I
 STA.: 29+75.24
 N: 696344.16
 E: 954193.58



SHOAL ELEVATION	
COLOR	ELEV. RANGE (FT MLLW)
	-12 TO -11
	-11 TO -10
	-10 TO -9
	-9 TO -8
	-8 TO -7
	-7 TO -6
	-6 TO -5
	-5 TO -4
	-4 TO -3

AERIAL REFERENCE: FDOT, 2017
 SURVEY REFERENCE: MORGAN & EKLUND, INC., SEPT. 2014

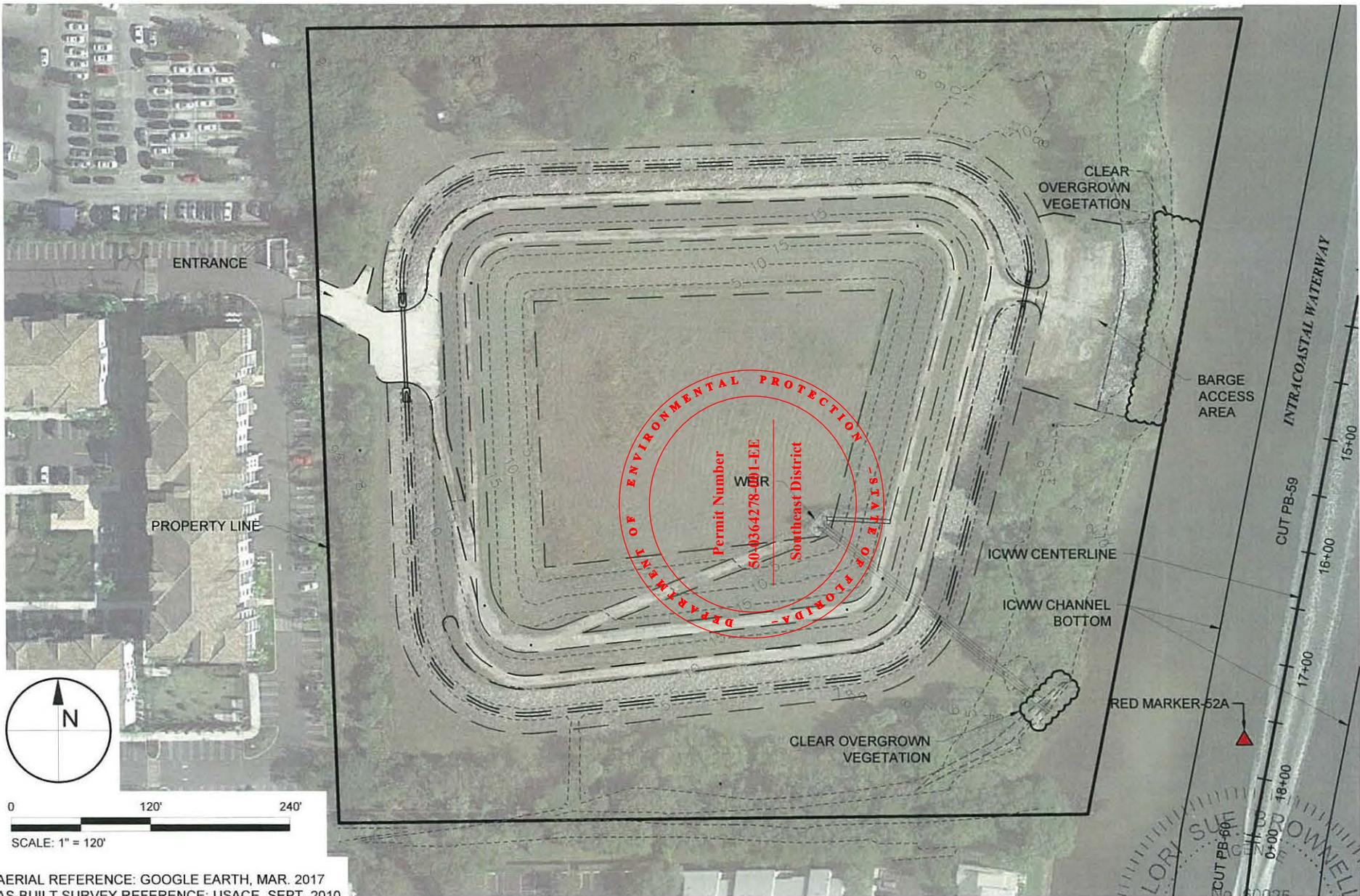
TAYLOR ENGINEERING INC.
 10151 DEERWOOD PARK BLVD
 BLDG 300, SUITE 300
 JACKSONVILLE, FLORIDA 32256
 CERTIFICATE OF AUTHORIZATION # 4815

FIGURE 20
 BROWARD REACH I, CUTS BW-22
 ICWW MAINTENANCE DREDGING
 PALM BEACH AND BROWARD COUNTY, FLORIDA

PROJECT	DRAWN BY	SHEET	DATE
C2018-009	CAS	20 of 22	05-04-18

STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 LORI SUE BROWNELL
 No. 60025
 DATE 5/11/2018

C:\HY-SHELL\X\SYSTEMS\PROJECTS\C2018-009-FIND BROWARD REACH\PERMIT\C2018-009-P-MSA-641A-DMMA-DWG-5772018 12:01:22 PM



AERIAL REFERENCE: GOOGLE EARTH, MAR. 2017
AS-BUILT SURVEY REFERENCE: USACE, SEPT. 2010



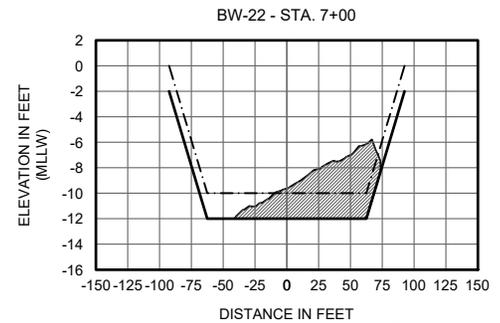
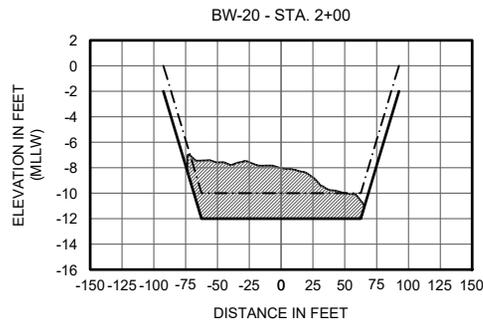
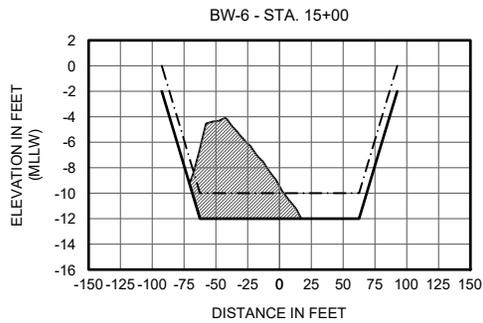
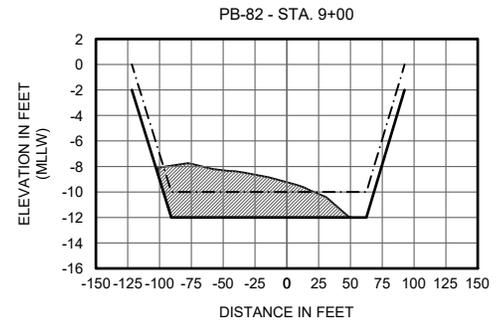
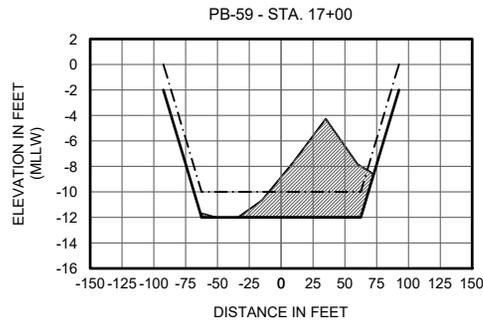
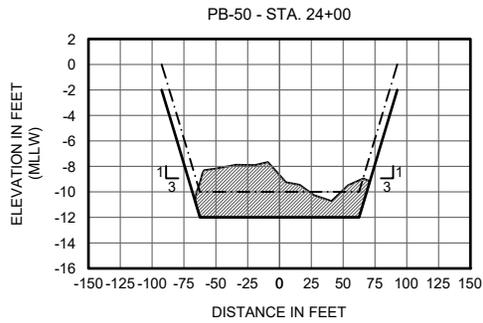
TAYLOR ENGINEERING INC.
10151 DEERWOOD PARK BLVD
BLDG 300, SUITE 300
JACKSONVILLE, FLORIDA 32256
CERTIFICATE OF AUTHORIZATION # 4815

FIGURE 21
MSA 641A DMMA AS-BUILT CONDITIONS
ICWW MAINTENANCE DREDGING
PALM BEACH AND BROWARD COUNTY, FLORIDA

PROJECT	C2018-009
DRAWN BY	CAS
SHEET	21 of 22
DATE	05-04-18

SEAL
LORI S. OWEN
PROFESSIONAL ENGINEER
STATE OF FLORIDA
5/1/2018
DATE

CATHY SHELL X:\SIS\PROJECTS\C2018-005 FIND BROWARD REACH \PERMIT\C2018-009-P-SECTIONS.DWG 5/31/2018 11:36:36 AM



TYPICAL CROSS-SECTIONS

SCALE: 1" = 150'
V-SCALE: 1" = 15'



- DESIGN DEPTH (-10-FT MLLW)
- ALLOWABLE OVERDREDGE DEPTH (-12-FT MLLW)
- MATERIAL TO BE REMOVED



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FIGURE 23
TYPICAL CROSS-SECTIONS
ICWW MAINTENANCE DREDGING
PALM BEACH AND BROWARD COUNTY, FLORIDA

PROJECT	C2018-009
DRAWN BY	CAS
SHEET	23 of 23
DATE	5/31/18

SEAL	
DATE	

LORI S. BROWNELL P.E.# 60025

DATE