

Attachment D



Florida Department of Environmental Protection

South District
Post Office Box 2549
Fort Myers, Florida 33902-2549
SouthDistrict@floridadep.gov

Rick Scott
Governor

Carlos Lopez-Cantera
Lt. Governor

Noah Valenstein
Secretary

CORRECTED

7/31/2018

City of Naples
c/o Stephanie Molloy; Natural Resource Manager
295 Riverside Circle
Naples, Fl. 34102
smolloy@naplesgov.com

Permit Number: 0345034-002 EM
Modification of Permit Number 0345034-001 EI

Ms. Molloy:

Your request to modify the Permit No. 0345034-001 EI has been received and reviewed by Department staff.

The proposed permit modification is to:
Reconfigure the layout of a previously authorized oyster restoration reef and change material type from shell in bags to a combination of shell in bags, loose shell and limestone rock.

After review by staff, the proposed modification is not expected to adversely affect water quality and will not be contrary to the public interest.

Modifications to the permit are shown as follows: deletions are struck through (i.e. ~~abc~~) and additions are underlined (i.e. abc).

The permittee is authorized to conduct oyster habitat restoration through the placement of: (1) bagged shell, loose shell and limestone rock as specified in the attached revised designs ~~in~~ approximately 4' x 4' pods having a maximum height of 5 feet, spaced at a minimum of 16 feet ~~apart~~; (2) three 150' x 13' reef ball wave attenuation structures to be placed at Site 1; and (3) navigational warning signs and public educational signs at each site. The project will be located within Naples Bay, Class II Waters, Unclassified for Shellfish Harvesting and Rocky Creek, Class III Waters. Authorized activities are depicted on the attached exhibits.

4 project drawings have been added 3 project drawings have been voided

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Since the proposed modification(s) along with the above amended permit conditions and monitoring requirements are not expected to result in any adverse environmental impact and water quality degradation, the permit is hereby modified as requested. By copy of this letter and the attached drawings, we are notifying all necessary parties of the modification.

This letter does not alter the permit other than as described above. This letter and referenced enclosures must be attached to the original permit. A copy of the original permit can be obtained here:

[https://depdms.dep.state.fl.us:443/Oculus/servlet/shell?command=getEntity&\[guid=23.398631.1\]&\[profile=Permitting_Authorization\]](https://depdms.dep.state.fl.us:443/Oculus/servlet/shell?command=getEntity&[guid=23.398631.1]&[profile=Permitting_Authorization])

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 hearing process may result in a modification of the agency action or even denial of the application.

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.

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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 this order is filed with the Clerk of the Department.

Judicial Review

Once this decision becomes final, 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

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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 Jon Guinn by telephone at (239) 344-5650 or by e-mail at Jonathan.Guinn@floridadep.gov When referring to this project, please reference the file number listed above.

Executed in Orlando, Florida

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION



Jon M. Iglehart
Director of District Management
South District

CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this document and authorization to use sovereignty submerged lands, including all copies, were sent to the addressee and to the following listed persons:

U.S. Army Corps of Engineers, Fort Myers Office, fdep.other@usace.army.mil
Collier County Property Appraiser, dstaruch@collierappraiser.com
FWC, Imperiled Species Management Section, fwcconservationplanningservices@myfwc.com

FILING AND ACKNOWLEDGMENT

FILED, on this date, pursuant to Section 120.52(7), F.S., with the designated Department clerk, receipt of which is hereby acknowledged.



Clerk

July 25, 2018

Date

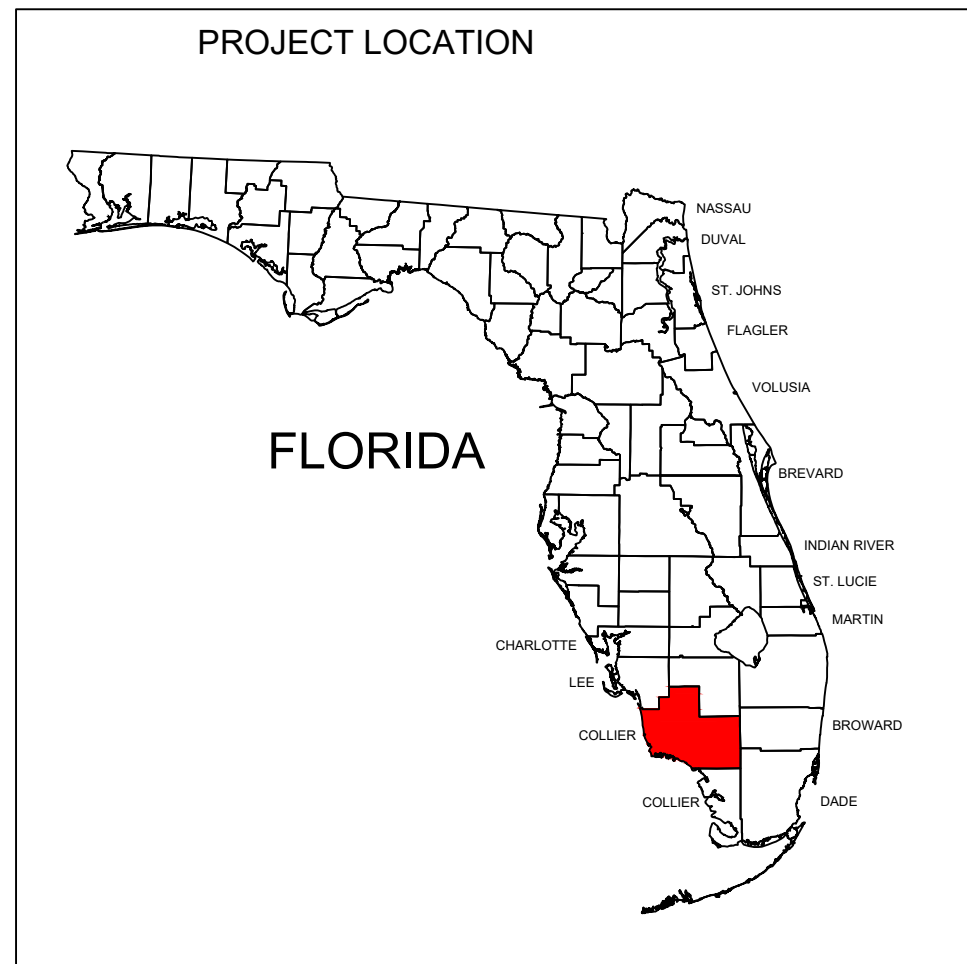
Enclosures:

3 New Project drawings
13 Original Permit Drawings

Attachment D

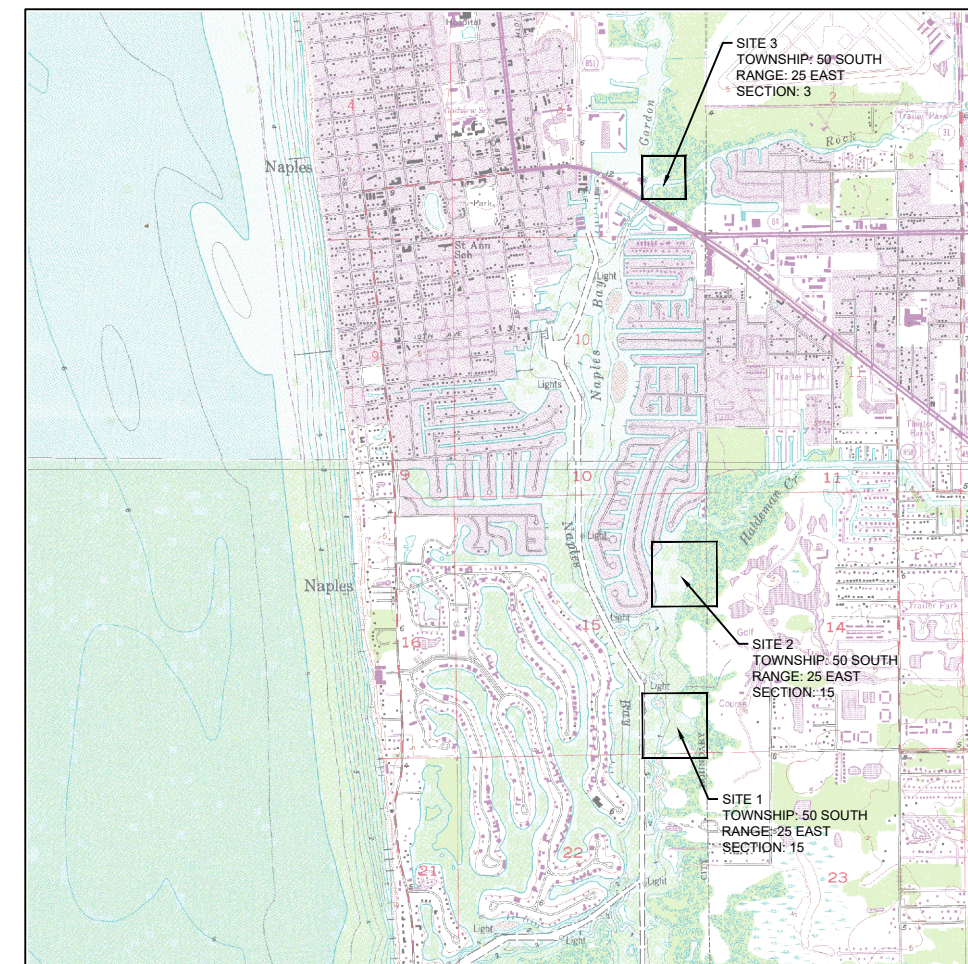
NAPLES BAY OYSTER RESTORATION CONSTRUCTION DRAWINGS CITY OF NAPLES, COLLIER COUNTY, FLORIDA

90% SUBMITTAL
PERMIT APPLICATION
PURPOSES ONLY
NOT FOR
CONSTRUCTION



DRAWING INDEX

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- C-4 APPROXIMATE MUCK DEPTHS SITE 1
- C-5 APPROXIMATE MUCK DEPTHS SITE 2
- C-6 APPROXIMATE MUCK DEPTHS SITE 3
- C-7 SITE PLAN SITE 1
- C-8 SITE PLAN SITE 2
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- C-12 USCG SIGNAGE DETAILS
- C-13 EROSION & SEDIMENT CONTROL DETAILS



VICINITY MAP
1" = 2,000' (22x34)
1" = 4,000' (11x17)

LOCATION MAP
N.T.S.



TAYLOR ENGINEERING INC.
10151 DEERWOOD PARK BLVD.
BLDG. 300, SUITE 300
JACKSONVILLE, FLORIDA 32256
(904)-731-7040
1675 PALM BEACH LAKES, SUITE 210
WEST PALM BEACH, FLORIDA 33401
(561)-640-7310
CERTIFICATE OF AUTHORIZATION # 4815

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

PROJECT TITLE
NAPLES BAY
OYSTER RESTORATION
CONSTRUCTION DRAWINGS
CITY OF NAPLES, COLLIER COUNTY, FLORIDA

PROJECT NO C2015-037
DATE AUGUST 2016



SEAL
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PURPOSES ONLY
NOT FOR
CONSTRUCTION
CLIFFORD L. TRUITT P.E. # 21194

C-1
SHEET 1 OF 13

Attachment D

DEFINITIONS

1. OWNER: CITY OF NAPLES - THE CITY UNDER CONTRACT WITH THE CONTRACTOR TO PERFORM THE WORK.
2. ENGINEER: OWNER'S DESIGNATED REPRESENTATIVE FOR CONSTRUCTION INSPECTION AND SUPERVISION OF THE WORK. THE ENGINEER'S NAME AND SEAL IS AFFIXED TO THE DRAWINGS AND SPECIFICATIONS.
3. RECORD DRAWINGS: RECORD DRAWINGS SHALL BE DEFINED AS A COPY OF THE ORIGINAL SIGNED AND SEALED DRAWINGS KEPT ONSITE AT ALL TIMES WHERE THE CONTRACTOR SHALL KEEP A RECORD OF ALL DEVIATIONS FROM THE ORIGINAL DRAWINGS MARKED IN RED PENCIL OR PEN.
5. U.N.O. : UNLESS NOTED OTHERWISE

PROJECT NOTES:

1. ALL ELEVATIONS SHOWN ARE IN FEET AND REFER TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
2. HORIZONTAL COORDINATES ARE BASED ON STATE PLANE COORDINATE SYSTEM FOR THE EAST ZONE (901) OF FLORIDA NAD 83/90.
3. BATHYMETRIC SURVEYS CONDUCTED ON MARCH 2016 BY DaGOSTINO & WOOD, INC. THE INFORMATION DEPICTED ON THESE DRAWINGS REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS INDICATIONS OF GENERAL CONDITIONS EXISTING AT THAT TIME.

GENERAL NOTES

1. THE CONTRACTOR SHALL INVESTIGATE THE PROJECT SITE PRIOR TO INITIATING ANY CONSTRUCTION.
2. THE CONTRACTOR SHALL FIELD VERIFY LOCATIONS OF ALL STRUCTURES, OYSTER REEFS AND EXISTING UTILITIES, WHETHER SHOWN OR NOT ON THE DRAWINGS.
3. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION TOGETHER WITH CITY OF NAPLES TO ENSURE PUBLIC AND PRIVATE SAFETY IN AND AROUND THE CONSTRUCTION SITE.
4. THE CONTRACTOR SHALL PLACE WARNING BUOYS AND SIGNS INDICATING THE AREAS AND LIMITS OF CONSTRUCTION.
5. THE CONTRACTOR SHALL COORDINATE WORK HOURS WITH OWNER TO MEET PROJECT SCHEDULE REQUIREMENTS.
6. THE CONTRACTOR SHALL MAINTAIN A SET OF RECORD DRAWINGS AND SHALL KEEP A RECORD OF ALL DEVIATIONS FROM THE ORIGINAL DRAWINGS MARKED IN RED PENCIL OR PEN. THE RECORD DRAWINGS SHALL BE KEPT ONSITE AND SHALL BE AVAILABLE FOR INSPECTION BY THE ENGINEER.
7. WHEN ALL SUBSTANTIAL WORK IS DONE AND BEFORE NOTICE OF FINAL COMPLETION OF THE WORK, THE CONTRACTOR SHALL SUBMIT THE ORIGINAL RECORD DRAWINGS TO THE ENGINEER AND UP TO 5 FULL SIZE OR REDUCED SIZE COPIES AS REQUESTED BY THE ENGINEER.
8. THE CONTRACTOR SHALL PROVIDE ACCESS TO THE WORK FOR INSPECTION BY THE ENGINEER, REGULATORY AGENCIES, AND OWNER.
9. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH THE ENGINEER AS NECESSARY FOR CONSTRUCTION INSPECTION AND AS-BUILT CERTIFICATION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT APPROPRIATE AND APPROVED TIMES DURING THE COURSE OF THE WORK THAT THE CONTRACTOR IS READY FOR INSPECTION. WORK THAT IS ASSEMBLED OR COVERED SO THAT THE ENGINEER CANNOT INSPECT THE WORK PROPERLY SHALL BE DISASSEMBLED, UNCOVERED, OR DESTROYED AS NECESSARY FOR INSPECTION. THE COSTS OF REPAIR OR RESTORATION OF THIS WORK SHALL BE BORNE SOLELY BY THE CONTRACTOR.
10. THE CONTRACTOR SHALL PROVIDE PERSONNEL AND EQUIPMENT FOR ENGINEER TO INSPECT AND INQUIRE ABOUT THE WORK. THIS MAY INCLUDE PROJECT MANAGERS, SUPERINTENDENTS, FOREMAN, LABORERS, LADDERS, HARD HATS, LIFTS, SCAFFOLDING, MEASURING DEVICES, SURVEY EQUIPMENT, LIFE JACKETS, ETC.
11. THE CONTRACTOR SHALL WARRANT THE WORK FOR A MINIMUM OF ONE YEAR UNLESS CLEARLY DEFINED OTHERWISE IN THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL REPAIR AND/OR REPLACE ALL DEFECTIVE MATERIALS AND WORK AT NO COSTS TO THE OWNER WITHIN THE STATED WARRANTY PERIOD.
12. ALL PERMANENT MATERIAL SHALL BE NEW, USED, RECONDITIONED, OR REMANUFACTURED MATERIAL SHALL NOT BE ALLOWED UNLESS APPROVED BY THE OWNER IN WRITING.
13. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.
14. THE CONTRACTOR SHALL VERIFY THE EXISTENCE OF ALL ABOVE-GROUND, BELOW-GROUND, AND SUBMERGED UTILITIES WITHIN THE SITES. IF ANY UTILITIES ARE FOUND, CONTRACTOR MUST LOCATED & MARK LOCATIONS BEFORE BEGINNING WORK.
15. IN THE EVENT OF A CONFLICT BETWEEN THE SPECIFICATIONS AND THE DRAWINGS, THE DRAWINGS SHALL GOVERN.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO ADJACENT FACILITIES AND STRUCTURES CAUSED BY HIS ACTIVITIES DURING PERFORMANCE OF THE WORK. THE CONTRACTOR SHALL RESTORE ALL SUCH DAMAGES TO THEIR PRE-CONSTRUCTION CONDITION AT NO COSTS TO THE OWNER.
17. THE CONTRACTOR SHALL IMPLEMENT AND MAINTAIN EROSION CONTROL MEASURES AS NECESSARY TO COMPLY WITH LOCAL, STATE, AND FEDERAL LAWS AND REGULATIONS. EROSION CONTROL MEASURES MUST BE IMPLEMENTED PRIOR TO ANY WORK COMMENCING AND BE MAINTAINED FOR THE DURATION OF THE PROJECT AND ONLY REMOVED WHEN ALL CONSTRUCTION AND INSTALLATION OF ALL OYSTER MESH BAGS, REEFBALL UNITS AND FOUNDATIONS FOR REEFBALL UNITS HAS BEEN COMPLETED.
18. THE CONTRACTOR MUST HAVE ALL USCG WARNING SIGNAGE AND ANY OTHER REQUIRED MARKERS, AND WARNING BUOYS IN PLACE BEFORE REMOVING WARNING BUOYS AND SIGNS INDICATING THE AREAS AND LIMITS OF CONSTRUCTION AND EROSION CONTROL MEASURES TO ENSURE THE PUBLIC IS AWARE OF PERMANENT SUBMERGED STRUCTURES WITHIN THE WATERWAYS.

PERMITS AND PERMIT CONDITIONS

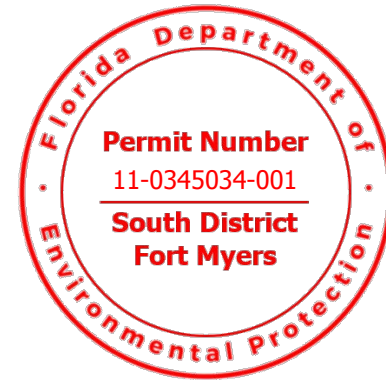
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS NOT SUPPLIED BY THE OWNER. COSTS OF OBTAINING PERMITS NOT SUPPLIED BY THE OWNER SHALL BE BORNE BY THE CONTRACTOR. THIS MAY INCLUDE BUT NOT BE LIMITED TO: NPDES PERMIT (OR NOI), CLEARING OR LAND DISTURBANCE PERMITS, TEMPORARY UTILITIES PERMITS, ETC.
2. UNLESS CLEARLY SPECIFIED OTHERWISE BY THE OWNER IN THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR FILING ALL NOTICES OF COMMENCEMENTS AND NOTICES OF COMPLETION TO ALL PERMITTING AGENCIES INCLUDING PERMITS SUPPLIED BY THE OWNER.

AS-BUILT SURVEYS

1. UNLESS CLEARLY SPECIFIED OTHERWISE IN THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL INCLUDE THE COST OF AN AS-BUILT SURVEY IN THE BID PRICE AND SHALL STATE A SEPARATE PRICE FOR AN AS-BUILT SURVEY IN THE BID PRICE. THE AS-BUILT SURVEY SHALL BE SIGNED AND SEALED BY A SURVEYOR LICENSED IN THE STATE OF FLORIDA AND SHALL SHOW THE LOCATION AND ELEVATION OF ALL CONSTRUCTED OR INSTALLED FEATURES.
2. THE AS-BUILT SURVEY SHALL BE SUBMITTED IN DIGITAL AND 22" X 34" PAPER VERSIONS (UP TO 5 COPIES) TO THE ENGINEER FOR APPROVAL. THE AS-BUILT SURVEY SHALL BE PERFORMED IN THE SAME HORIZONTAL AND VERTICAL COORDINATE SYSTEM THE DRAWINGS ARE IN. DIGITAL DRAWINGS SHALL BE IN AUTOCAD 2008 OR NEWER VERSION.

SUBMITTALS AND TESTING REQUIREMENTS

1. ALL TESTING OTHER THAN CONSTRUCTION OR CONSTRUCTION, AS REQUIRED HEREIN OR IN THE CONTRACT DOCUMENTS SHALL BE PERFORMED BY AN INDEPENDENT QUALIFIED TESTING COMPANY. THE COSTS OF ALL SUCH TESTING SHALL BE BORNE BY THE CONTRACTOR AND SHALL BE INCLUDED IN THE BID PRICE.
2. THE QUALIFIED TESTING AGENCY SHALL BE APPROVED PER DOT STANDARDS, AASHTO STANDARDS OR OTHER SUCH STANDARDS AS APPLICABLE BY THE ENGINEER. ALL WORK SHALL BE DONE UNDER THE SUPERVISION OF A REGISTERED PROFESSIONAL ENGINEER LICENSED IN FLORIDA AND SHALL BE SIGNED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER IF REQUESTED.
3. UNLESS MODIFIED BY THE CONTRACT DOCUMENTS, SUBMITTALS AND REQUEST FOR INFORMATION SHALL BE SUBMITTED TO THE ENGINEER IN WRITING IN A FORMAT ACCEPTABLE TO THE ENGINEER AND SHALL BE SUBMITTED A MINIMUM OF 6 WORKING DAYS, PREFERABLY 10 WORKING DAYS, BEFORE ACTION IS REQUIRED.
4. ALL REQUIRED SUBMITTALS OR MANUFACTURER'S INFORMATION SHALL BE IN U.S. CUSTOMARY UNITS.
5. ALL SUBMITTALS REQUIRE APPROVAL BY THE ENGINEER U.N.O..
6. SUBMITTALS SHALL INCLUDE UP TO 7 COPIES AS REQUESTED BY THE ENGINEER UNLESS STATED OTHERWISE BY THE ENGINEER.



TAYLOR ENGINEERING INC.
 10151 DEERWOOD PARK BLVD.
 BLDG. 300, SUITE 300
 JACKSONVILLE, FLORIDA 32256
 (904)-731-7040
 1675 PALM BEACH LAKES, SUITE 210
 WEST PALM BEACH, FLORIDA 33401
 (561)-640-7310
 CERTIFICATE OF AUTHORIZATION # 4815

SEAL
90% SUBMITTAL PERMIT APPLICATION PURPOSES ONLY NOT FOR CONSTRUCTION

CLIFFORD L. TRUITT P.E. # 21194
 PROJECT TITLE
NAPLES BAY OYSTER RESTORATION CONSTRUCTION DRAWINGS
 CITY OF NAPLES, COLLIER COUNTY, FLORIDA

Always call 811 two full business days before you dig

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

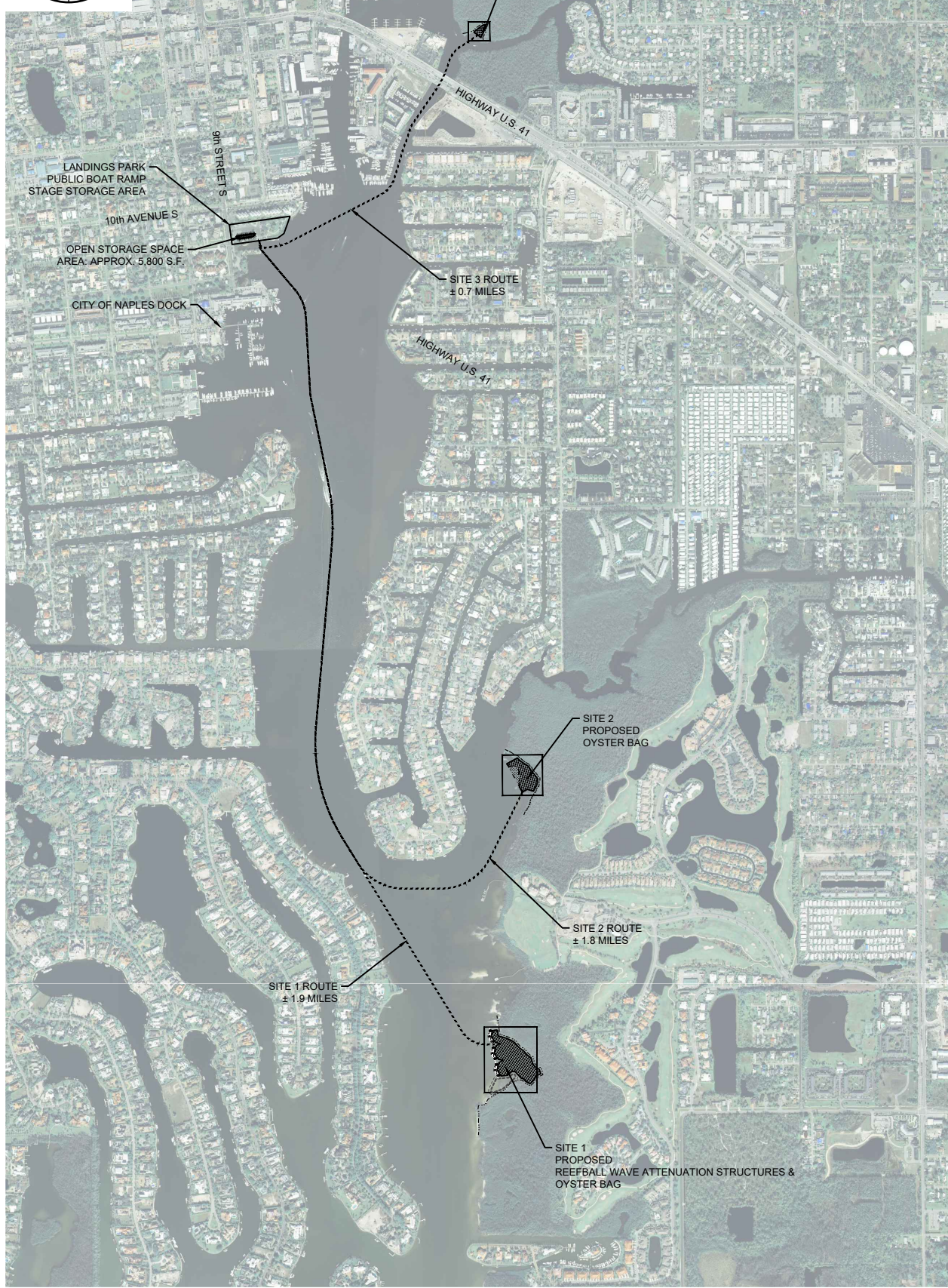
											DATE
											REVISIONS / SUBMISSIONS
NO.	DATE	BY	DESCRIPTION	NO.	DATE	BY	DESCRIPTION	NO.	DATE	BY	DESCRIPTION

PROJECT NO	C2015-037
DATE	AUGUST 2016
DESIGNED	JP
DRAWN	RLJ
CHECKED	CAS
REVIEWED	CLT
SCALE	AS SHOWN

DRAWING TITLE
PROJECT NOTES

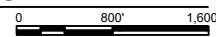
REBECCA JOHNSON, 02/24/2016 9:37:09 AM, X:\ays\Projects\C2015037 Naples Bay Oyster Reef Construction\C2015037-C-OverNotes.dwg

Attachment D



PROJECT OVERVIEW

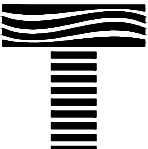
22X34: 1" = 800'
11X17: 1" = 1,600'



PROJECT STAGING AREA NOTES:

1. ADD ANY NEEDED NOTES OR INSTRUCTIONS HERE.
2. PLACE HOLDER TO ADD TEXT





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NO.	ZONE	DATE

<small>PROJECT NO.</small>	C2015-037
<small>DATE</small>	AUGUST 2016
<small>DESIGNED</small>	JP
<small>DRAWN</small>	RLJ
<small>CHECKED</small>	CAS
<small>REVIEWED</small>	CLT
<small>SCALE</small>	AS SHOWN

DRAWING TITLE
PROJECT OVERVIEW & STAGING AREAS

C-3

SHEET 3 OF 13

REBECCA JOHNSON, 8/24/2016 9:37:15 AM, X:\wpj\Projects\C2015037 Naples Bay Oyster BestConstruction\C2015037-C-OverNotes.dwg

Attachment D



LIMITS OF REEFBALL WAVE
ATTENUATION STRUCTURE UNIT
(TYPICAL)

LIMITS OF OYSTER RESTORATION

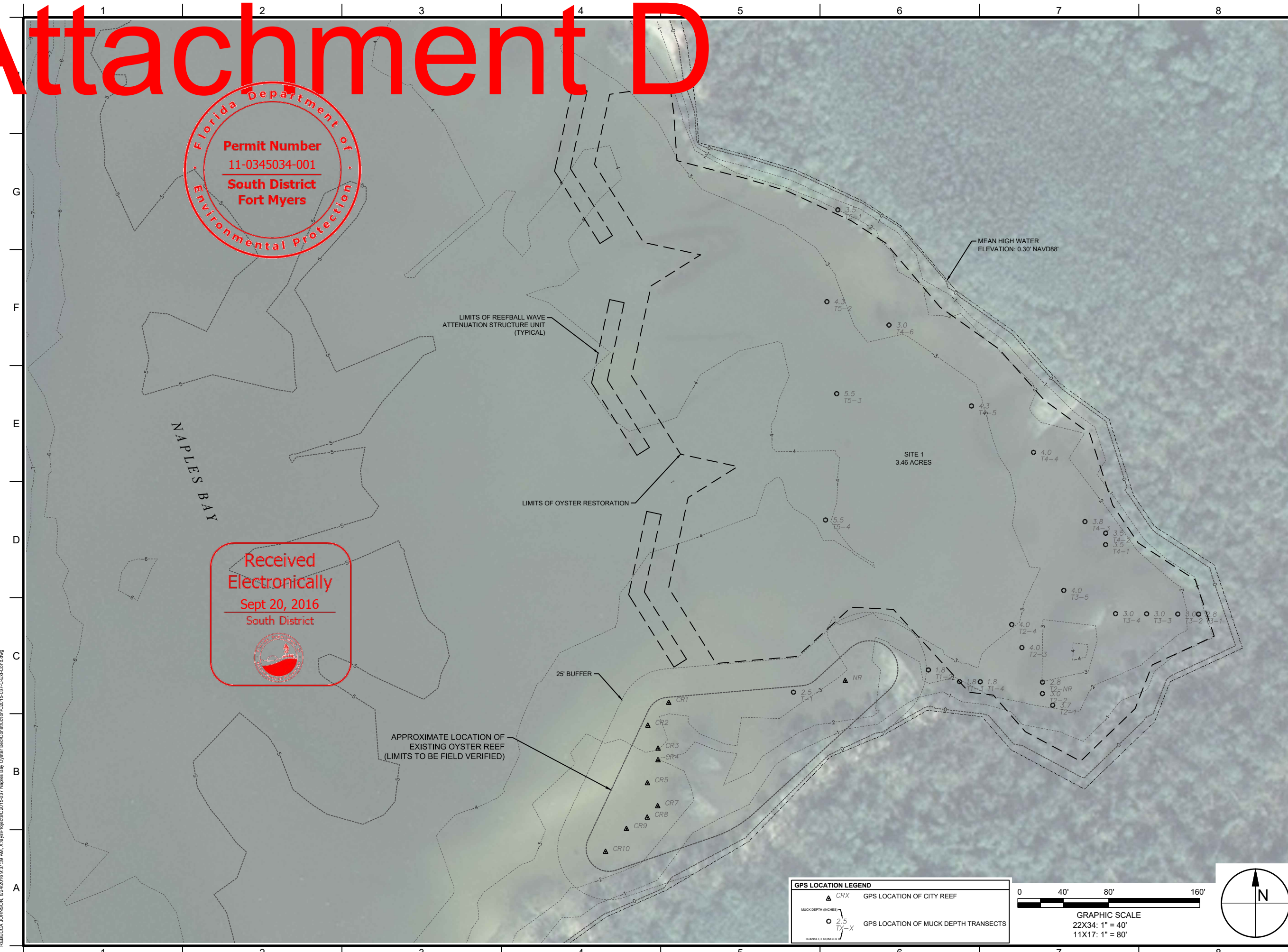
MEAN HIGH WATER
ELEVATION: 0.30' NAVD88'

SITE 1
3.46 ACRES

NAPLES BAY

APPROXIMATE LOCATION OF
EXISTING OYSTER REEF
(LIMITS TO BE FIELD VERIFIED)

25' BUFFER

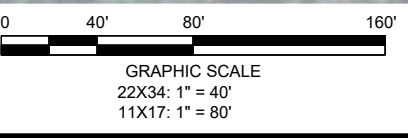


GPS LOCATION LEGEND

▲ CRX GPS LOCATION OF CITY REEF

○ 2.5 TX-X GPS LOCATION OF MUCK DEPTH TRANSECTS

TRANSCT NUMBER



REBECCA JOHNSON, 08/24/2016 9:37:39 AM, X:\wp\Projects\C2015037 Naples Bay Oyster Reef\Construction\C2015037-C-Ext-Camd.dwg

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PROJECT TITLE
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CONSTRUCTION DRAWINGS**
CITY OF NAPLES, COLLIER COUNTY,
FLORIDA



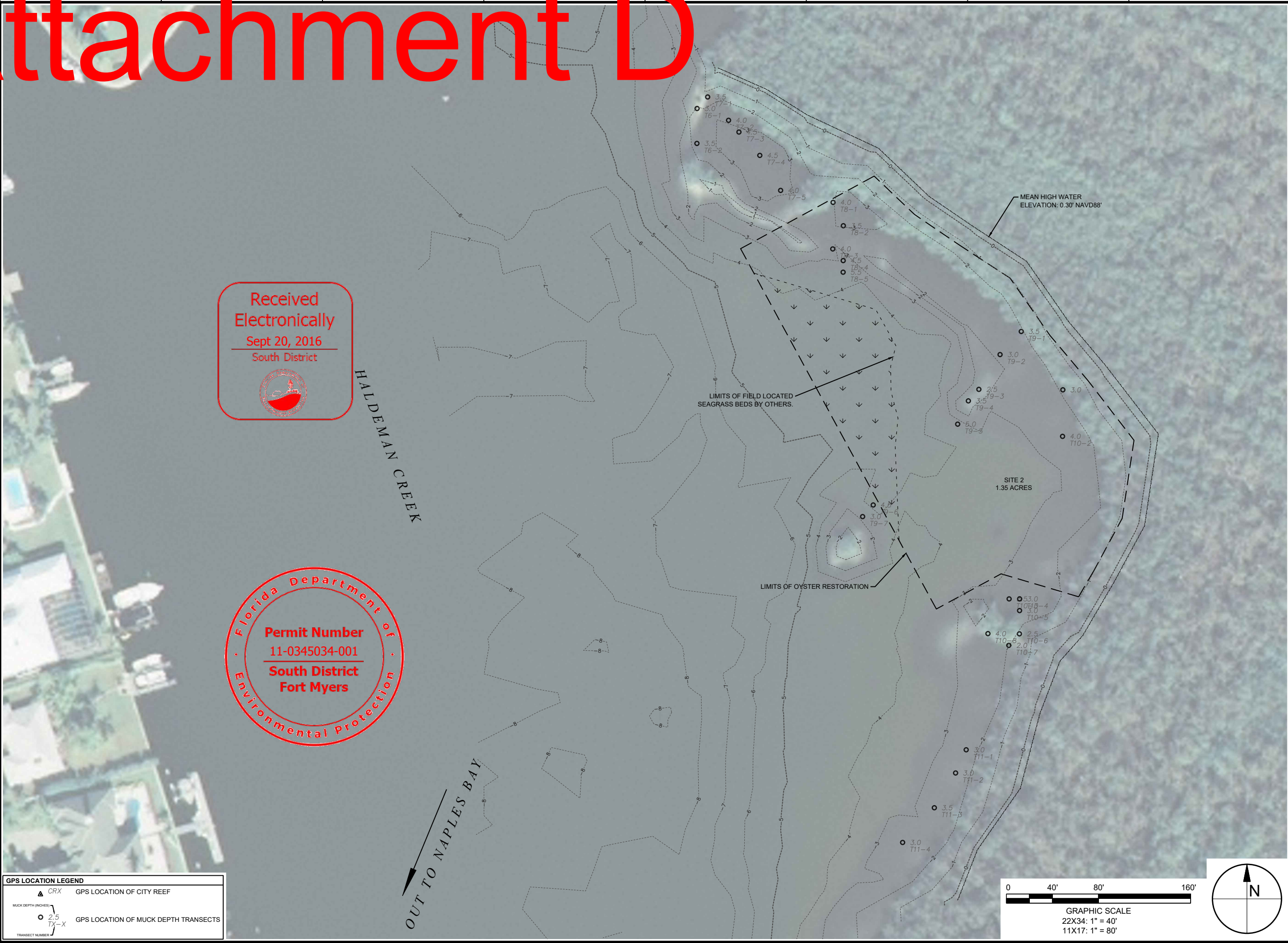
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REVIEWED	CLT
SCALE	AS SHOWN

DRAWING TITLE
**APPROXIMATE
MUCK DEPTHS
SITE 1**

Attachment D



Received
Electronically
Sept 20, 2016
South District

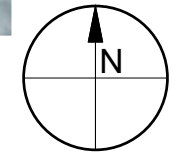
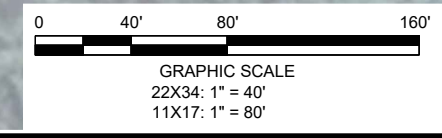


Florida Department of
Environmental Protection

Permit Number
11-0345034-001
South District
Fort Myers

GPS LOCATION LEGEND

- ▲ CRX GPS LOCATION OF CITY REEF
- 2.5 TX-X GPS LOCATION OF MUCK DEPTH TRANSECTS



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CITY OF NAPLES, COLLIER COUNTY,
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CHECKED	CAS
REVIEWED	CLT
SCALE	AS SHOWN

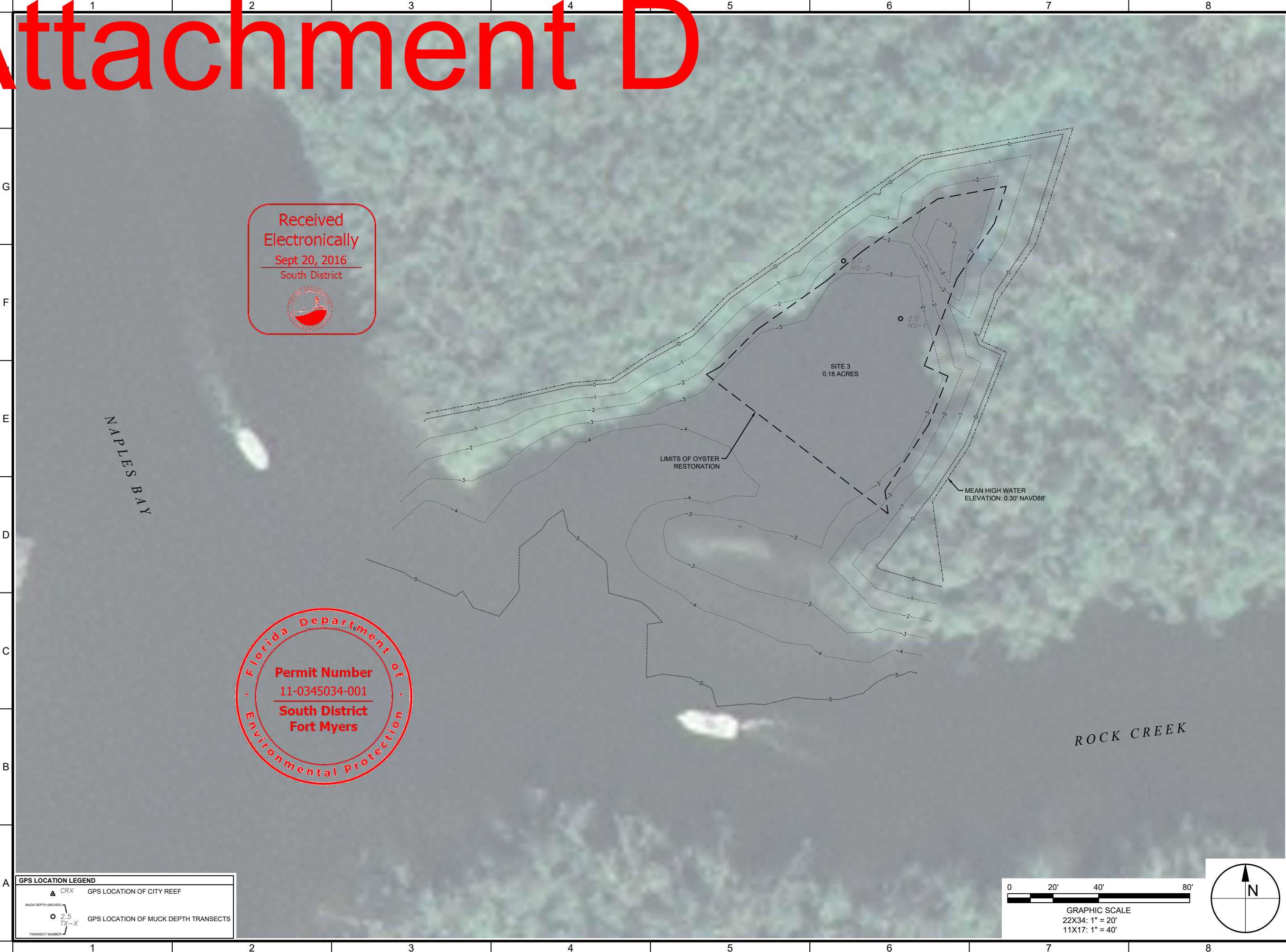
DRAWING TITLE
**APPROXIMATE
MUCK DEPTHS
SITE 2**

C-5
SHEET 5 OF 13

REBECCA JOHNSON, 8/24/2016 9:37:46 AM, X:\wyp\Projects\2015037 Naples Bay Oyster BestConstruction\2015037-C-Ext-Cond.dwg

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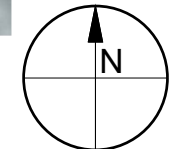
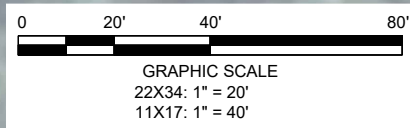


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GPS LOCATION LEGEND

	CRX	GPS LOCATION OF CITY REEF
	2.5 TX-X	GPS LOCATION OF MUCK DEPTH TRANSECTS



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PROJECT TITLE
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 CITY OF NAPLES, COLLIER COUNTY,
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PROJECT NO	DATE	NO	ZONE	REVISIONS / SUBMISSIONS	DATE
C2015-037 <td>AUGUST 2016 <td></td> <td></td> <td></td> <td></td> </td>	AUGUST 2016 <td></td> <td></td> <td></td> <td></td>				

PROJECT NO	C2015-037
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DRAWING TITLE
**APPROXIMATE
 MUCK DEPTHS
 SITE 3**

C-6

SHEET 6 OF 13

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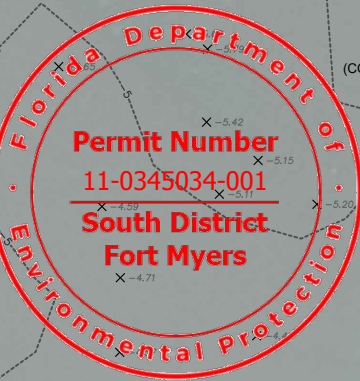

VOID

REEFBALL WAVE ATTENUATION STRUCTURE UNIT LOCATION TABLE

POINT NUMBER	NORTHING	EASTING	DESCRIPTION
101	646967.21	398611.92	REEFBALL UNIT 1
102	646893.91	398596.02	REEFBALL UNIT 1
103	646830.35	398635.84	REEFBALL UNIT 1
104	646837.26	398646.86	REEFBALL UNIT 1
105	646896.33	398609.85	REEFBALL UNIT 1
106	646964.45	398624.62	REEFBALL UNIT 1
201	646781.10	398644.46	REEFBALL UNIT 2
202	646707.80	398628.56	REEFBALL UNIT 2
203	646644.25	398668.38	REEFBALL UNIT 2
204	646651.15	398679.40	REEFBALL UNIT 2
205	646710.22	398642.39	REEFBALL UNIT 2
206	646778.35	398657.16	REEFBALL UNIT 2
301	646595.00	398676.99	REEFBALL UNIT 3
302	646521.70	398661.10	REEFBALL UNIT 3
303	646458.15	398700.92	REEFBALL UNIT 3
304	646465.05	398711.94	REEFBALL UNIT 3
305	646524.12	398674.93	REEFBALL UNIT 3
306	646592.24	398689.70	REEFBALL UNIT 3

OYSTER SITE 1 LOCATION TABLE

POINT NUMBER	NORTHING	EASTING	DESCRIPTION
401	646961.49	398644.44	OYSTER SITE 1
402	646900.05	398631.12	OYSTER SITE 1
403	646831.33	398674.17	OYSTER SITE 1
404	646820.45	398724.36	OYSTER SITE 1
405	646793.19	398680.84	OYSTER SITE 1
406	646713.94	398663.66	OYSTER SITE 1
407	646645.23	398706.71	OYSTER SITE 1
408	646634.35	398756.90	OYSTER SITE 1
409	646607.08	398713.38	OYSTER SITE 1
410	646527.84	398696.20	OYSTER SITE 1
411	646461.34	398737.87	OYSTER SITE 1
412	646467.50	398809.32	OYSTER SITE 1
413	646510.76	398856.67	OYSTER SITE 1
414	646508.85	398893.70	OYSTER SITE 1
415	646436.02	398960.23	OYSTER SITE 1
416	646433.54	398981.50	OYSTER SITE 1
417	646401.36	399009.60	OYSTER SITE 1
418	646375.41	399058.13	OYSTER SITE 1
419	646421.65	399106.12	OYSTER SITE 1
420	646460.02	399121.12	OYSTER SITE 1
421	646485.32	399175.59	OYSTER SITE 1
422	646534.81	399158.87	OYSTER SITE 1
423	646567.33	399108.69	OYSTER SITE 1
424	646600.55	399086.28	OYSTER SITE 1
425	646663.55	399066.11	OYSTER SITE 1
426	646692.61	399026.33	OYSTER SITE 1
427	646737.66	398986.48	OYSTER SITE 1
428	646774.46	398934.70	OYSTER SITE 1
429	646830.67	398887.02	OYSTER SITE 1
430	646850.32	398856.66	OYSTER SITE 1
431	646876.39	398800.61	OYSTER SITE 1
432	646887.72	398763.20	OYSTER SITE 1
433	646903.21	398703.49	OYSTER SITE 1
434	646944.25	398700.83	OYSTER SITE 1
435	646968.94	398697.35	OYSTER SITE 1

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 CITY OF NAPLES, COLLIER COUNTY,
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NO	ZONE	REVISIONS / SUBMISSIONS	DATE

PROJECT NO	C2015-037
DATE	AUGUST 2016
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SITE PLAN SITE 1

NOTES:

- EACH OYSTER CELL/POD SHALL BE 4' WIDE X 4' LONG, SPACED 16' O.C.. EACH ROW OF CELLS/PODS WILL BE STAGGERED.
- A MINIMUM OFFSET FROM REEFBALL STRUCTURE & MEAN HIGH WATER LINE IS REQUIRED FOR PLACEMENT OF OYSTER CELL/POD.

REBECCA JOHNSON, 02/22/2016 9:38:17 AM, X:\wp\proj\c2015\037 Naples Bay Oyster BestConstrction\2015\037-C-Site-Plan.dwg

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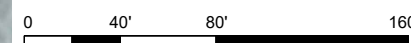
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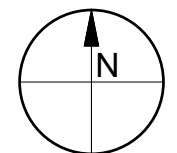
POINT NUMBER	NORTHING	EASTING	DESCRIPTION
501	649909.25	398801.47	OYSTER SEEDING SITE 2
502	649888.06	398812.99	OYSTER SEEDING SITE 2
503	649869.27	398875.90	OYSTER SEEDING SITE 2
504	649856.47	398918.77	OYSTER SEEDING SITE 2
505	649824.97	398936.34	OYSTER SEEDING SITE 2
506	649807.09	398931.74	OYSTER SEEDING SITE 2
507	649785.21	398932.09	OYSTER SEEDING SITE 2
508	649761.95	398938.16	OYSTER SEEDING SITE 2
509	649737.40	398935.71	OYSTER SEEDING SITE 2
510	649710.56	398936.82	OYSTER SEEDING SITE 2
511	649655.91	398939.10	OYSTER SEEDING SITE 2
512	649596.43	398971.41	OYSTER SEEDING SITE 2
513	649626.98	399027.65	OYSTER SEEDING SITE 2
514	649607.06	399094.95	OYSTER SEEDING SITE 2
515	649675.08	399132.79	OYSTER SEEDING SITE 2
516	649742.92	399143.02	OYSTER SEEDING SITE 2
517	649794.69	399103.13	OYSTER SEEDING SITE 2
518	649833.91	399070.10	OYSTER SEEDING SITE 2
519	649883.67	399035.44	OYSTER SEEDING SITE 2
520	649911.87	398992.21	OYSTER SEEDING SITE 2
521	649938.98	398952.43	OYSTER SEEDING SITE 2
522	649972.26	398917.46	OYSTER SEEDING SITE 2

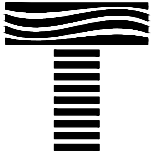
NOTES:

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2. A MINIMUM OFFSET FROM MEAN HIGH WATER LINE IS REQUIRED FOR PLACEMENT OF OYSTER CELL/POD.



GRAPHIC SCALE
22X34: 1" = 40'
11X17: 1" = 80'




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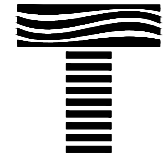
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SITE PLAN SITE 2

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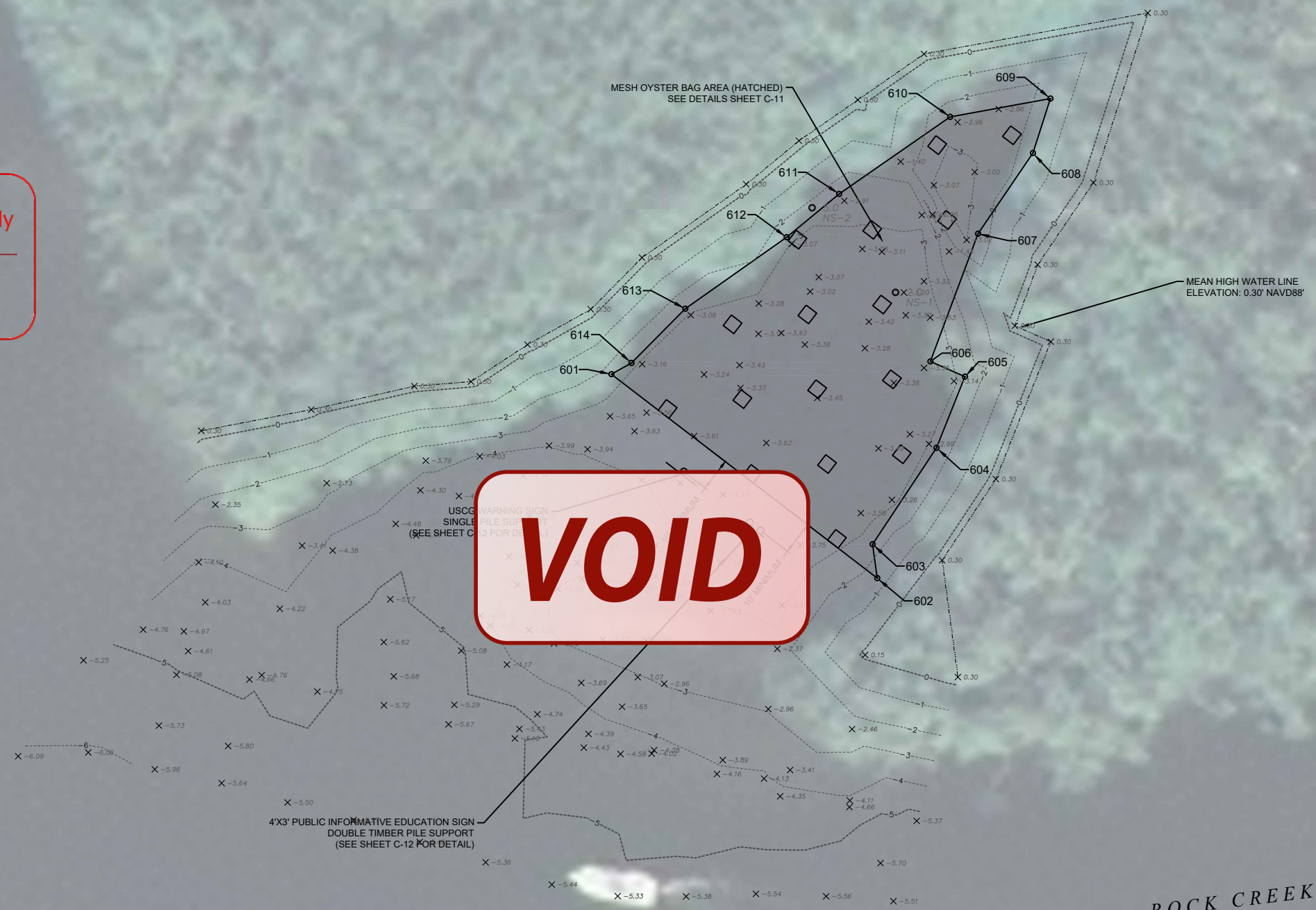
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SITE PLAN SITE 3

C-9

SHEET 9 OF 13



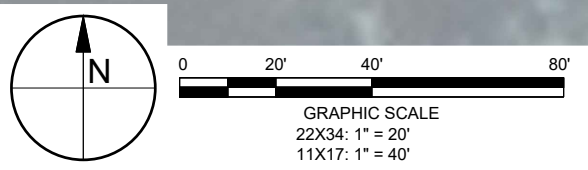
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OYSTER SITE 3 LOCATION TABLE

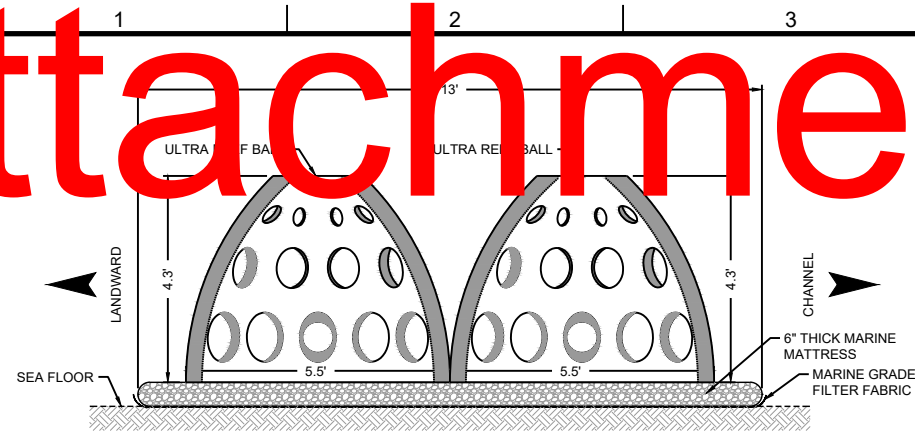
POINT NUMBER	NORTHING	EASTING	DESCRIPTION
601	657990.62	398436.80	OYSTER SEEDING SITE 3
602	657929.44	398516.55	OYSTER SEEDING SITE 3
603	657939.60	398515.18	OYSTER SEEDING SITE 3
604	657968.50	398534.34	OYSTER SEEDING SITE 3
605	657989.86	398542.87	OYSTER SEEDING SITE 3
606	657994.44	398532.50	OYSTER SEEDING SITE 3
607	658032.72	398546.79	OYSTER SEEDING SITE 3
608	658056.92	398563.24	OYSTER SEEDING SITE 3
609	658073.27	398568.48	OYSTER SEEDING SITE 3
610	658067.76	398538.43	OYSTER SEEDING SITE 3
611	658044.66	398505.14	OYSTER SEEDING SITE 3
612	658031.67	398489.38	OYSTER SEEDING SITE 3
613	658010.25	398458.96	OYSTER SEEDING SITE 3
614	657993.98	398442.83	OYSTER SEEDING SITE 3



- NOTES:
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 - A MINIMUM OFFSET FROM MEAN HIGH WATER LINE IS REQUIRED FOR PLACEMENT OF OYSTER CELL/POD.

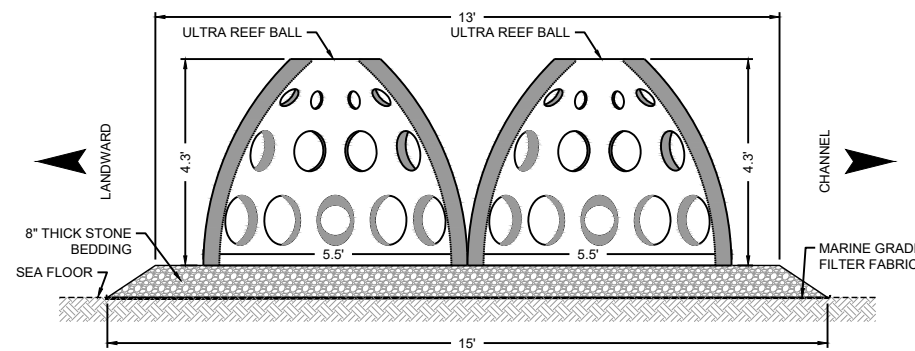
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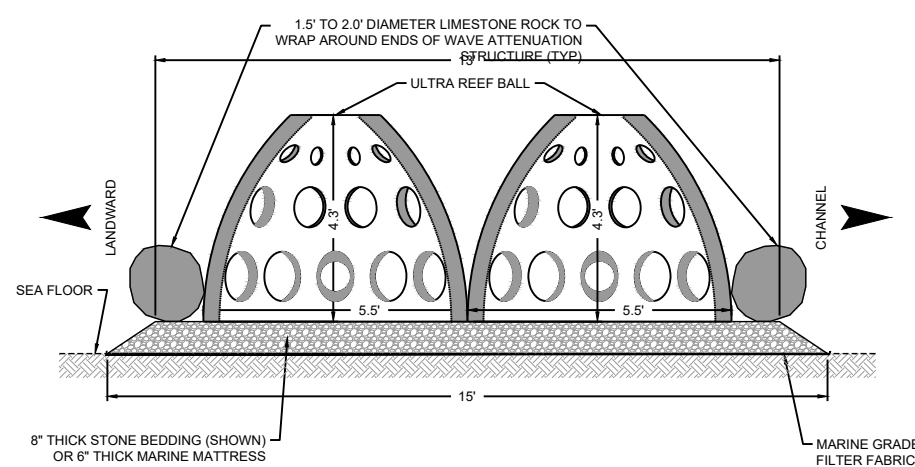
REEFBALL WAVE ATTENUATION STRUCTURE CONFIGURATION CROSS SECTION OPTION 1 - 6" THICK MARINE MATTRESS

B-B C-10 22X34: 1" = 2' 11X17: 1" = 4' 0 2 4



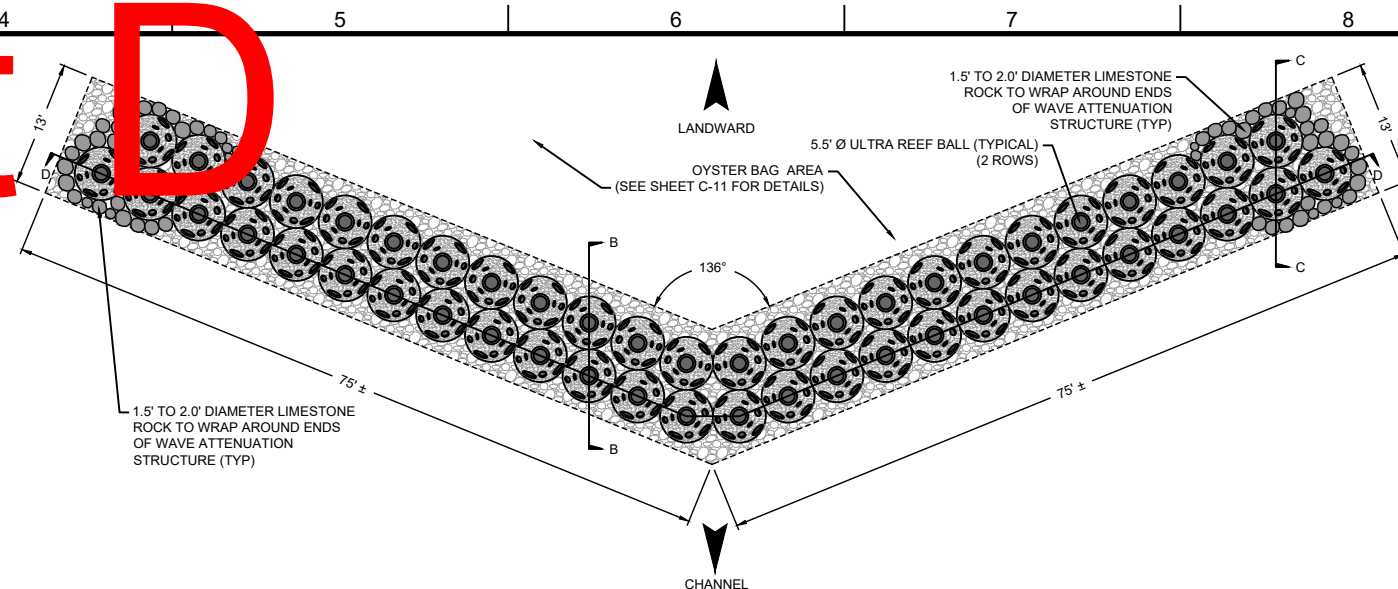
REEFBALL WAVE ATTENUATION STRUCTURE CONFIGURATION CROSS SECTION OPTION 2 - 8" THICK BEDDING STONE

B-B C-10 22X34: 1" = 2' 11X17: 1" = 4' 0 2 4



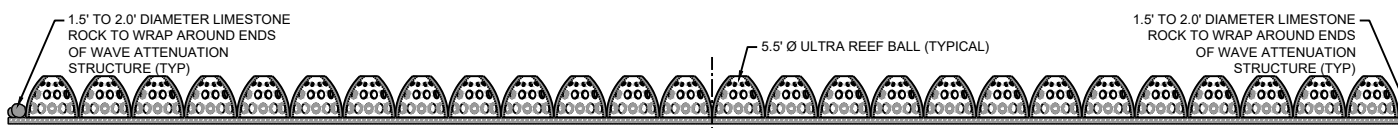
REEFBALL WAVE ATTENUATION STRUCTURE CONFIGURATION CROSS SECTION AT ENDS OF UNIT WITH STONE WRAP AROUND

C-C C-10 22X34: 1" = 2' 11X17: 1" = 4' 0 2 4



REEFBALL WAVE ATTENUATION STRUCTURE CONFIGURATION PLAN VIEW TYPICAL DETAIL

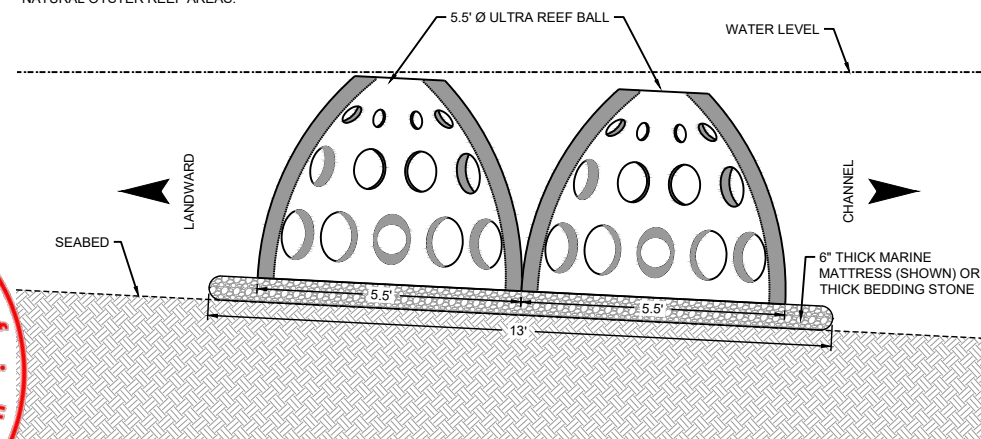
A C-7 22X34: 1" = 10' 11X17: 1" = 20' 0 10 20



REEFBALL WAVE ATTENUATION STRUCTURE CONFIGURATION PROFILE SECTION DETAIL

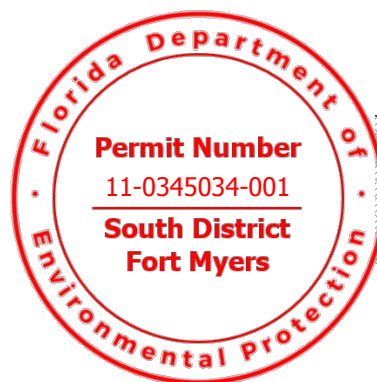
D-D C-10 22X34: 1" = 10' 11X17: 1" = 20' 0 10 20

NOTE: OYSTER BAGS TO BE PLACED IN LEE OF WAVE ATTENUATION STRUCTURE STRUCTURES, ALONG SHORELINES, AND WITHIN EXISTING NATURAL OYSTER REEF AREAS.



REEFBALL WAVE ATTENUATION STRUCTURE CONFIGURATION SECTION VIEW TYPICAL DETAIL

22X34: 1" = 10' 11X17: 1" = 20' 0 10 20



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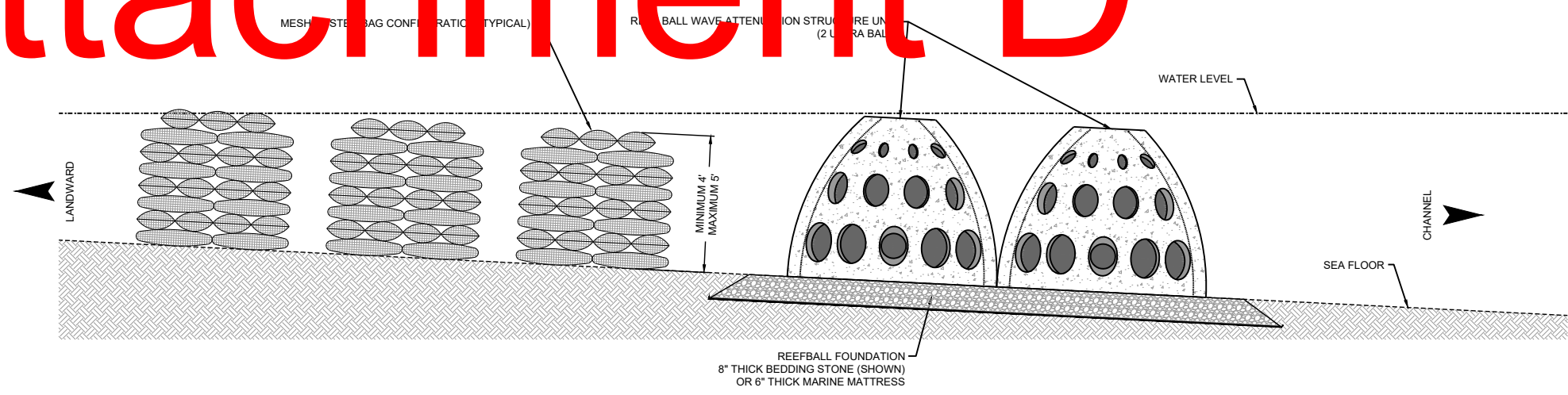
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DRAWING TITLE
REEFBALL TYPICAL DETAILS

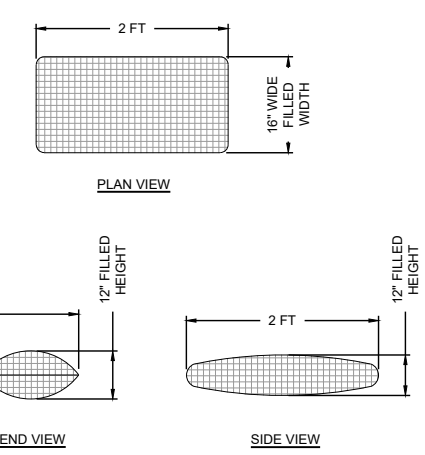
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Attachment D



**TYPICAL DETAIL
OYSTER BAG & REEF BALL CONFIGURATION**

22X34: 1" = 2'
11X17: 1" = 4'



MESH OYSTER BAG DETAIL

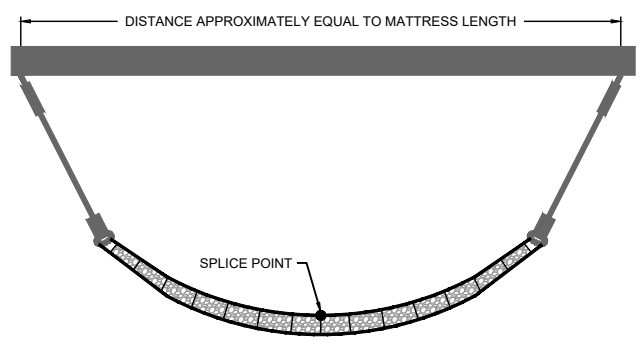
22X34: 1" = 2'
11X17: 1" = 4'

- REEFBALL CONFIGURATION NOTES:**
- REEFBALL UNITS SHALL BE 4.3 FEET HIGH X 5.5 FEET WIDE AT THE BASE. UNITS TO BE INSTALLED SUCH THAT THE BASE OF EACH UNIT ABUTS & CONSISTS OF INTERLOCKING UNITS.
 - POCKETS OF MUCK AND ORGANICS EXIST WITHIN THE SITE; THEREFORE FOUNDATION PREPARATION SHALL BE REQUIRED AND CONSIST OF 1 OF 2 OPTIONS:
FOUNDATION PREPARATION OPTION 1
THE CONTRACTOR MAY USE 6" THICK STONE FILLED MARINE MATTRESS WITH MARINE GRADE FILTER FABRIC PRE-ATTACHED TO THE BOTTOM. THE GRID SHALL BE BX1600 OR EQUAL & SHALL WITHSTAND A MINIMUM LIFTING CAPACITY OF 32,900 LBS. THE MARINE MATTRESS STONE FILL MUST CONSIST OF 2" TO 4" LIMESTONE ROCK WITH HARD ANGULAR SHAPE.
FOUNDATION PREPARATION OPTION 2
THE CONTRACTOR MAY USE A STANDARD OF 8" THICK LAYER OF BEDDING STONE. THE BEDDING STONE MUST CONSIST OF NO. 3 STONE WITH AN AVERAGE OF DIAMETER OF 1.5 INCHES. MARINE GRADE FILTER FABRIC MUST BE PLACED ALONG THE SEA FLOOR PRIOR TO STONE PLACEMENT.
 - THE CONTRACTOR MUST PLACE ROCK AROUND THE ENDS OF ALL THREE BALL WAVE ATTENUATION STRUCTURE UNITS TO PREVENT SCOUR. THE ROCK MUST BE 1.5 - 2.0 FEET IN DIAMETER AND SHALL OVERLAP THE LENGTH OF REEFBALL UNITS ALONG THE LANDWARD & SEAWARD SIDES BY TWO UNITS.

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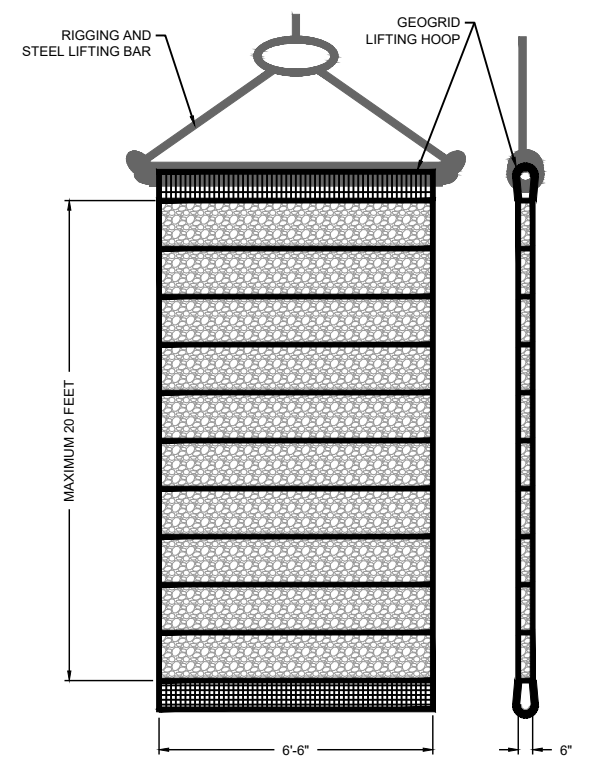
Florida Department of
Permit Number
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Fort Myers

- MESH OYSTER BAG NOTES:**
- MESH OYSTER BAGS SHALL CONSIST OF TUBULAR KNITTED NETS MADE FROM UV STABILIZED POLYETHYLENE. THE MESH APERTURES MAY BE DIAMOND OR OCTAGONAL IN SHAPE BUT MUST NOT EXCEED AN OPENING SIZE OF 0.25 INCHES.
 - MESH OYSTER BAGS SHALL BE FILLED WITH OYSTER CLUTCH AND ENCLOSED AS PER THE MANUFACTURER'S SPECIFICATIONS.
 - THE DIMENSIONS SHOWN IN THE MESH OYSTER BAG DETAIL ARE APPROXIMATE ONLY AND BASED ON ESTIMATED MESH OYSTER BAG SIZE CHARACTERISTICS OF EXISTING CITY REEF ADJACENT TO SITE #1.
 - MESH OYSTER BAGS ARE TO BE INSTALLED CONTIGUOUSLY IN 4' WIDE BY 4' LONG PODS THAT WILL HAVE A MAXIMUM STACKED HEIGHT OF 5 FEET ABOVE THE SEA FLOOR WITH EACH LAYER OF BAGS CONFIGURED PERPENDICULAR TO THE LAYER BELOW.
 - MESH OYSTER BAG DIMENSIONS SHOWN IN DETAIL ABOVE REPRESENT ESTIMATED FILLED BAG DIMENSIONS. ACTUAL FILLED DIMENSIONS IN THE FIELD WILL VARY BASED ON SIZE AND VOLUME OF SHELL FILL PLACED INSIDE BAG.

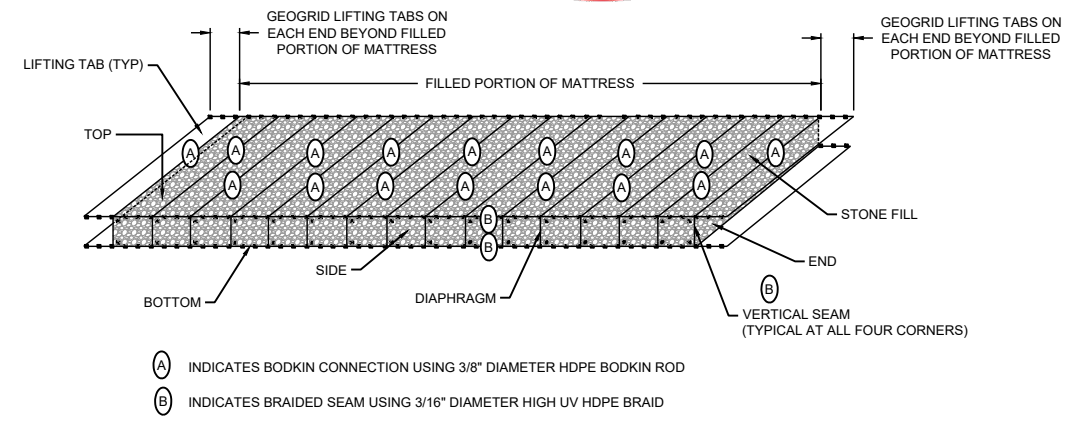


**MARINE MATTRESS
TWO-ENDS LIFTING DETAIL**

- MARINE MATTRESS NOTES:**
- ENDS, TOP, BOTTOM, SIDES, AND ANY EXTRA LENGTH USED FOR LIFTING OR ANCHORING PURPOSES SHALL BE COMPOSED OF LIKE MATERIAL.
 - PLASTIC CABLE TIES MAY BE USED TO SECURE BODKIN CONNECTORS IN POSITION PRIOR TO TENSIONING OR FILLING OF MATTRESS UNIT.
 - LIFTING BAR, RIGGING AND HANDLING MUST BE SUITABLE TO DISTRIBUTE THE LIFTING LOADS UNIFORMLY TO THE GEOGRID. LIFTING APPARATUS TO BE PROPOSED BY CONTRACTOR AND ENGINEER APPROVED. HANDLING AND LIFTING OF GRID MATERIALS AND MATTRESSES SHALL BE AVOIDED WHEN THE AMBIENT TEMPERATURE IS LOWER THAN 5 DEGREES BELOW ZERO, CELSIUS.
 - STONE-FILLED COMPARTMENTS SHALL BE FORMED BY THE USE OF INTERNAL BAFFLES ACROSS EACH MAT AT A MAXIMUM SPACING OF APPROXIMATELY 2 FEET.
 - ALL EXTERIOR SIDES AND INTERIOR BAFFLES AND LIFTING HOOPS SHALL BE FORMED WITH LIKE MATERIALS.
 - SEE THE PROJECT SPECIFICATIONS REGARDING THE REQUIREMENTS FOR STONE FILL MATERIALS.
 - FILLING SHALL BE ACCOMPLISHED SUCH THAT THE AVERAGE THICKNESS OF EACH MATTRESS DOES NOT EXCEED 6 INCHES.



**MARINE MATTRESS
ONE-END LIFTING DETAIL**



TYPICAL CONFIGURATION OF MARINE MATTRESS

NOT TO SCALE

TAYLOR ENGINEERING INC.
 10151 DEERWOOD PARK BLVD.
 BLDG. 300, SUITE 300
 JACKSONVILLE, FLORIDA 32256
 (904)-731-7040
 1675 PALM BEACH LAKES, SUITE 210
 WEST PALM BEACH, FLORIDA 33401
 (561)-640-7310
 CERTIFICATE OF AUTHORIZATION # 4815

SEAL
**90% SUBMITTAL
 PERMIT APPLICATION
 PURPOSES ONLY
 NOT FOR
 CONSTRUCTION**
 CLIFFORD L. TRUITT P.E. # 21194
 PROJECT TITLE
**NAPLES BAY
 OYSTER RESTORATION
 CONSTRUCTION DRAWINGS**
 CITY OF NAPLES, COLLIER COUNTY,
 FLORIDA

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

NO.	REVISIONS / SUBMISSIONS	DATE

PROJECT NO	C2015-037
DATE	AUGUST 2016
DESIGNED	JP
DRAWN	RLJ
CHECKED	CAS
REVIEWED	CLT
SCALE	AS SHOWN

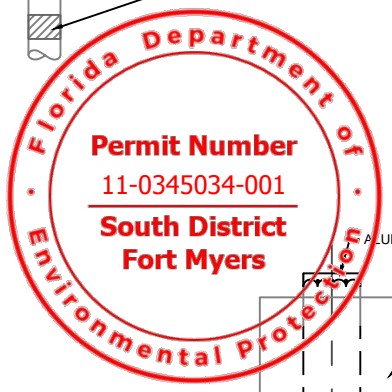
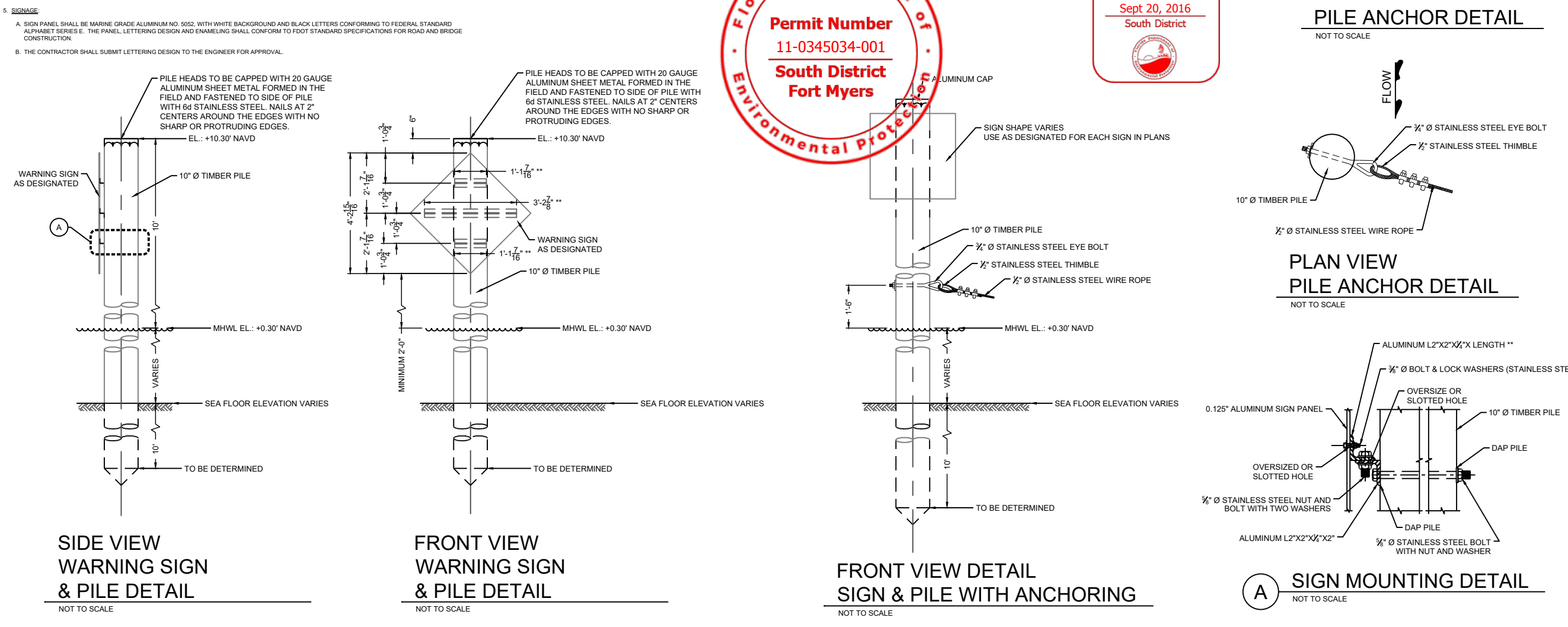
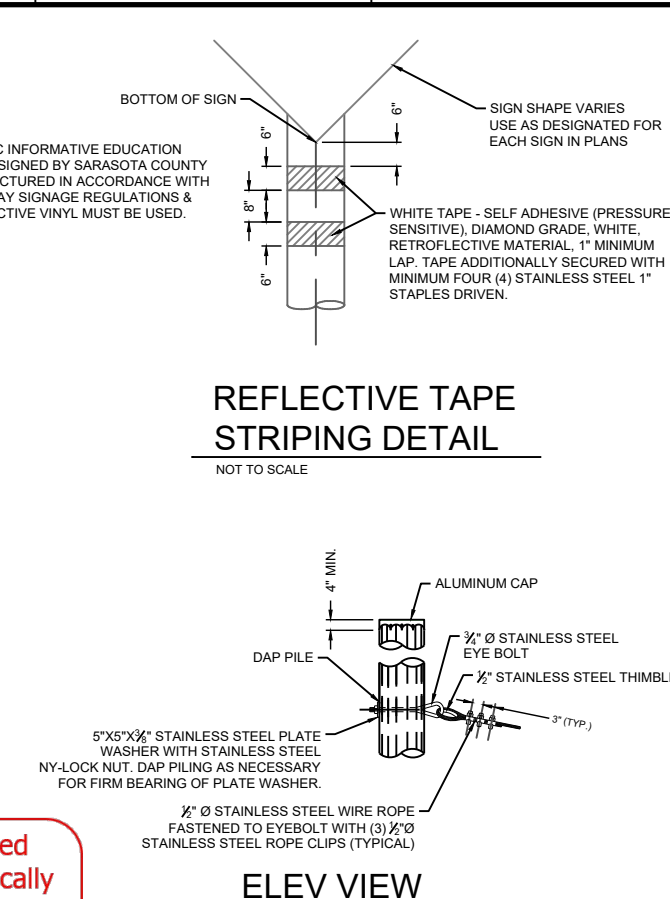
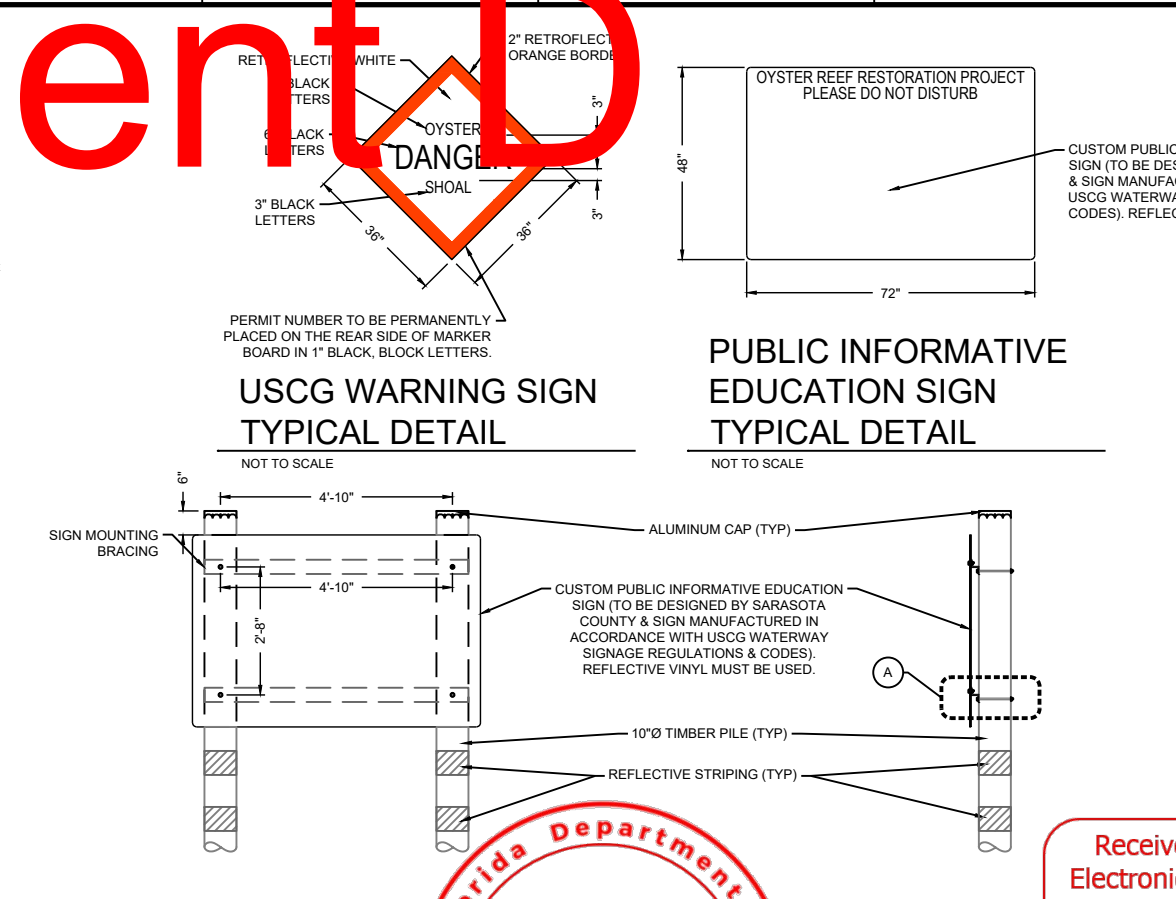
DRAWING TITLE
**OYSTER BAG & MARINE
 MATTRESS DETAILS**

C-11

REBECCA JOHNSON, 8/24/2016 9:38:50 AM, X:\wp\Projects\C2015\037 Naples Bay Oyster BestConstruction\C2015\037-C-Details.dwg

Attachment D

1. **USCG SIGNAGE**
 A. ALL SIGNS SHALL BE MARINE GRADE ALUMINUM NO. 5052 WITH WHITE BACKGROUND AND BLACK LETTERS CONFORMING TO FEDERAL STANDARD ALPHABET SERIES E. THE PANEL, LETTERING DESIGN AND ENAMELING SHALL CONFORM TO FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
 B. THE CONTRACTOR SHALL SUBMIT LETTERING DESIGN TO THE ENGINEER FOR APPROVAL.
2. **DRIVING PILES**
 A. NO PILES SHALL BE DRIVEN UNTIL THE EXCAVATION OR FILL IN THE AREA WHICH THEY ARE TO OCCUPY HAS BEEN COMPLETED TO THE REQUIRED GRADE.
 B. THE MAXIMUM PERMISSIBLE DEVIATION FOR PILES OUT OF PLUMB OR OFF BATTER SHALL BE 2 PERCENT OF THE PILE LENGTH.
 C. THE MAXIMUM PERMISSIBLE DEVIATION FROM INDICATED LOCATIONS SHALL BE 3 INCHES FOR EACH PILE.
 D. PILES SHALL HAVE METAL SHOES WHEN LENSES OR STRATA OF HARD ROCK OCCUR IN THE OVERBURDEN.
 E. PUNCHING OR DRILLING HOLES WILL BE PERFORMED WHERE NECESSARY TO PERMIT PILES TO PASS THROUGH THOSE STRATA AND REACH REQUIRED PENETRATION.
 F. ALL PILES SHALL BE DRIVEN CONTINUOUSLY AND WITHOUT VOLUNTARY INTERRUPTION UNTIL THE REQUIRED DEPTH OF PENETRATION HAS BEEN ATTAINED WITH A TOLERANCE OF PLUS OR MINUS 1.5 FEET.
 G. AFTER DRIVING AND BACK DRIVING, IF REQUIRED, ALL PILES SHALL BE CUT OFF AT THE CUTOFF LINE AND THE SURPLUS MATERIAL SHALL BE REMOVED FROM THE SITE OF THE WORK.
 H. WATER JETS MAY BE USED IN DRIVING ONLY WHEN SPECIFICALLY AUTHORIZED. 1. AT LEAST TWO JETS SHALL BE USED IN ALL JETTING OPERATIONS. 2. ALL JETTED PILES SHALL BE DRIVEN FOR THE FINAL FIVE (5) FEET OF PENETRATION UNLESS OTHERWISE DIRECTED.
3. **CABLE**
 A. ALL CABLE SHALL BE MINIMUM 1/4 INCH DIAMETER, STAINLESS STEEL WIRE CABLE. CABLE CLAMPS AND FASTENERS SHALL BE DESIGNED AND CONSTRUCTED TO RESIST MAXIMUM CHANNEL WATER VELOCITIES OF 20 FEET PER SECOND.
 B. THE CABLE LENGTH SHALL PROVIDE ADEQUATE SLACK TO ADDRESS THE VARIATION OF WATER STAGE.
 C. CABLE CLAMPS SHALL BE SUPPLIED AS PER MANUFACTURER'S RECOMMENDATIONS.
 D. THIMBLES, WIRE ROPE CLAMPS, FASTENERS, AND ACCESSORIES SHALL BE STAINLESS STEEL OF A TYPE AND GRADE AT LEAST EQUAL IN STRENGTH TO THE MINIMUM BREAKING STRENGTH OF THE WIRE ROPE.
 E. EYE-BOLTS SHALL BE WELDLESS STAINLESS STEEL.
4. **HARDWARE**
 A. FASTENERS, NUTS, WASHERS AND ALL OTHER STEEL ITEMS SHALL BE TAMPER PROOF STAINLESS STEEL TYPE 316.
 B. ALUMINUM MATERIAL SHALL CONFORM TO ALUMINUM ASSOCIATION ALLOY 5052 AND ALSO ASTM B209 FOR SHEETS AND PLATES, AND ASTM B221 FOR EXTRUDED SHAPES. ALUMINUM SHEETS AND PLATES SHALL HAVE ROUNDED OR BEVELED EDGES AND ROUNDED CORNERS.
5. **SIGNAGE**
 A. SIGN PANEL SHALL BE MARINE GRADE ALUMINUM NO. 5052 WITH WHITE BACKGROUND AND BLACK LETTERS CONFORMING TO FEDERAL STANDARD ALPHABET SERIES E. THE PANEL, LETTERING DESIGN AND ENAMELING SHALL CONFORM TO FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
 B. THE CONTRACTOR SHALL SUBMIT LETTERING DESIGN TO THE ENGINEER FOR APPROVAL.

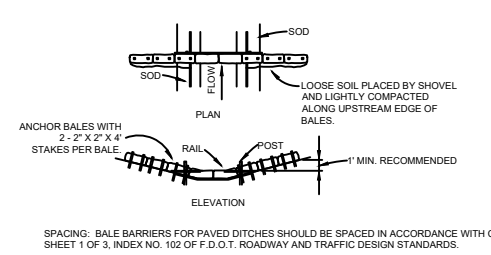
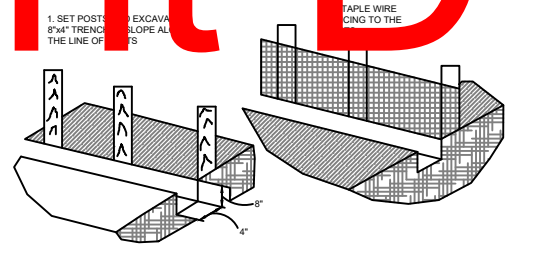


TAYLOR ENGINEERING INC. 10151 DEERWOOD PARK BLVD. BLDG. 300, SUITE 300 JACKSONVILLE, FLORIDA 32256 (904)-731-7040 1675 PALM BEACH LAKES, SUITE 210 WEST PALM BEACH, FLORIDA 33401 (561)-640-7310 CERTIFICATE OF AUTHORIZATION # 4815	
90% SUBMITTAL PERMIT APPLICATION PURPOSES ONLY NOT FOR CONSTRUCTION	
CLIFFORD L. TRUITT P.E. # 21194	
PROJECT TITLE NAPLES BAY OYSTER RESTORATION CONSTRUCTION DRAWINGS CITY OF NAPLES, COLLIER COUNTY, FLORIDA	
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PRELIMINARY DRAWINGS: THESE DRAWINGS ARE NOT IN FINAL FORM, BUT ARE BEING TRANSMITTED FOR REVIEW.	
REVISIONS / SUBMISSIONS	DATE
NO	ZONE
PROJECT NO: C2015-037	
DATE: AUGUST 2016	
DESIGNED: JP	
DRAWN: RLJ	
CHECKED: CAS	
REVIEWED: CLT	
SCALE: AS SHOWN	
DRAWING TITLE: USCG SIGNAGE DETAILS	
C-12 SHEET 12 OF 13	

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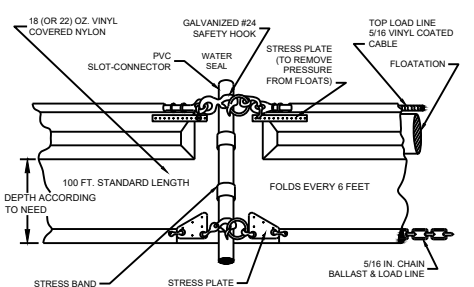
Attachment D

- EROSION CONTROL AND GRASSING/SEEDING NOTES:**
- THE CONTRACTOR SHALL IMPLEMENT THE EROSION CONTROL MEASURES AND TURBIDITY SILTATION PREVENTION DEVICES NECESSARY TO COMPLY WITH ALL FEDERAL, STATE, LOCAL REGULATIONS AND COUNTY WITH STABILITY CRITERIA FOR STORMWATER DISCHARGE. EROSION CONTROL MEASURES SHALL NOT BE LIMITED TO TURBIDITY SILTATION PREVENTION DEVICES IF ANY OTHER MEASURES ARE REQUIRED TO PREVENT EROSION OR TO PROTECT CURBS, STORM SEWERS, OR OTHER STRUCTURES FROM DAMAGE OR TO PREVENT POLLUTION. THE CONTRACTOR SHALL BE WHOLLY RESPONSIBLE FOR ALL DAMAGE AND COSTS WHICH MAY RESULT FROM EROSION CONTROL MEASURES OR FROM GRASSING AND SEEDING.
 - THE CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL MEASURES AND TURBIDITY SILTATION PREVENTION DEVICES UNTIL A PERMANENT VEGETATIVE COVER IS ESTABLISHED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF ALL EROSION CONTROL MEASURES AND TURBIDITY SILTATION PREVENTION DEVICES UNTIL A PERMANENT VEGETATIVE COVER IS ESTABLISHED.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING A PERMANENT STAND OF SOD AND/OR GRASS AT ALL DISTURBED AREAS PER CITY STANDARDS AND SPECIFICATIONS AND MEETING THE NPDES FINAL STABILIZATION REQUIREMENTS.
 - EROSION CONTROL MEASURES SHALL BE MAINTAINED FOR THE ENTIRE DURATION OF THE PROJECT.
 - EROSION CONTROL MEASURES SHALL BE PLACED TO CONTAIN ALL POINTS OF DISCHARGE TO SURFACE WATERS OR WETLANDS INCLUDING CURB INLETS, DITCH BOTTOM INLETS, DITCHES, AND DOWNSTREAM PORTIONS OF STREAMS AND TIDAL WATERS ADJACENT TO CONSTRUCTION.
 - 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR WILL SUBMIT A NPDES PERMIT TO FDEP.
 - THE CONTRACTOR SHALL WRAP STORM GRATES IN FILTER FABRIC TO PREVENT SEDIMENTATION OF THE STORM SEWER SYSTEM.
 - THE SITE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES AND TURBIDITY SILTATION PREVENTION DEVICES AFTER COMPLETION OF CONSTRUCTION AND ONLY WHEN AREAS HAVE BEEN STABILIZED.
 - SILT FENCES AND FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY. ALL TURBIDITY SILTATION PREVENTION DEVICES SHALL BE INSPECTED AFTER ANY STORM EVENTS TO ENSURE THAT ALL DEVICES ARE SECURELY IN PLACE AND UNDAMAGED. IF ANY DAMAGE HAS OCCURRED, THE CONTRACTOR SHALL ENSURE ALL DEVICES ARE FIXED AND/OR REPLACED AS REQUIRED AND SECURED PROPERLY.

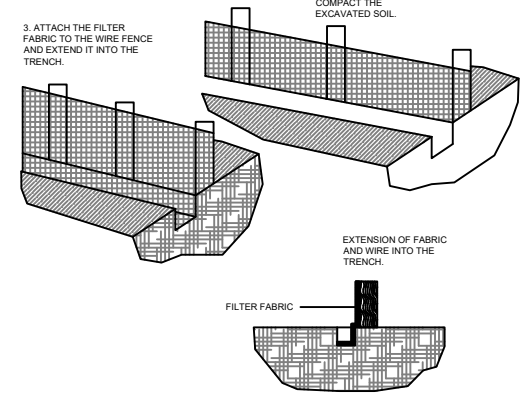


BARRIER FOR PAVED DITCH
SCALE: N.T.S.

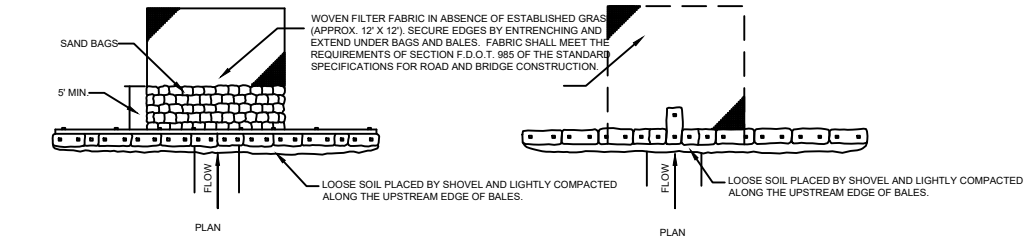
STAKED HAY BALE
SCALE: N.T.S.



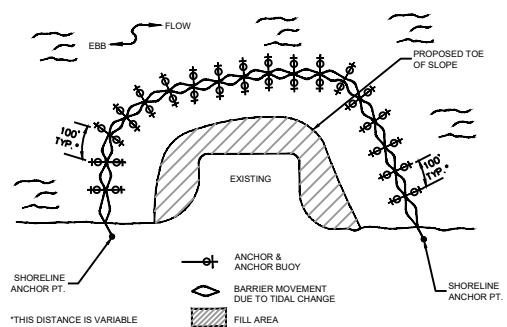
TURBIDITY CURTAIN - TYPE II
SCALE: N.T.S.



CONSTRUCTION DETAILS FOR SILT FENCES
SCALE: N.T.S.



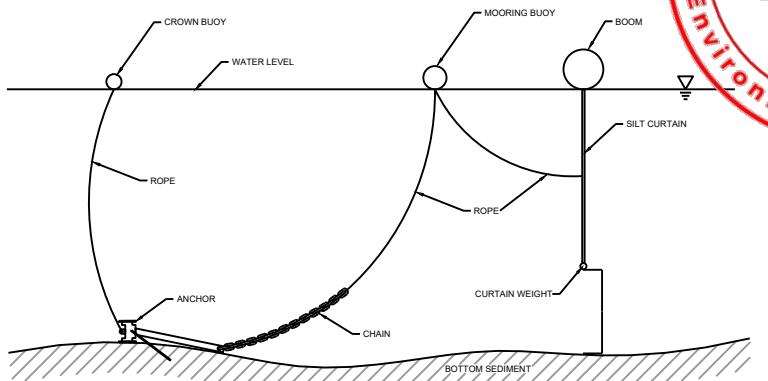
HAY BARRIERS TYPE I & II
SCALE: N.T.S.



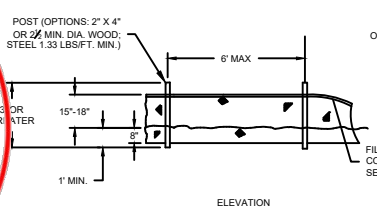
SAMPLE PLAN FOR TIDAL WATERS AND/OR HEAVY WIND & WAVE ACTION
SCALE: N.T.S.

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Sept 20, 2016
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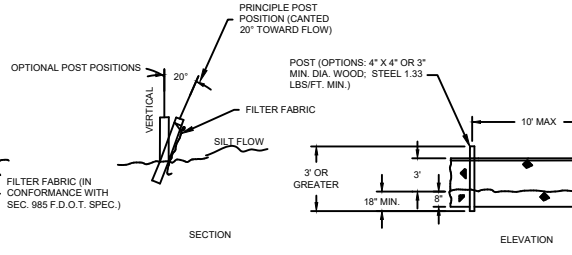
Florida Department of Environmental Protection
Permit Number
11-0345034-001
South District
Fort Myers



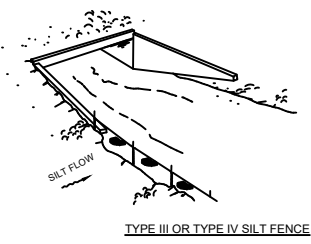
TURBIDITY CURTAIN DETAIL
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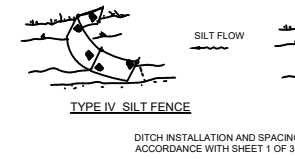
TYPE III SILT FENCE



TYPE IV SILT FENCE



TYPE III OR TYPE IV SILT FENCE



TYPE IV SILT FENCE

DO NOT DEPLOY IN A MANNER THAT SILT FENCES WILL ACT AS A DAM ACROSS PERMANENT FLOWING WATERCOURSES. SILT FENCES ARE TO BE USED AT UPLAND LOCATIONS AND TURBIDITY BARRIERS USED AT PERMANENT BODIES OF WATER.

SILT FENCE TYPE III & IV
SCALE: N.T.S.

TAYLOR ENGINEERING INC.
10151 DEERWOOD PARK BLVD.
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PROJECT TITLE
NAPLES BAY OYSTER RESTORATION
CONSTRUCTION DRAWINGS
CITY OF NAPLES, COLLIER COUNTY, FLORIDA

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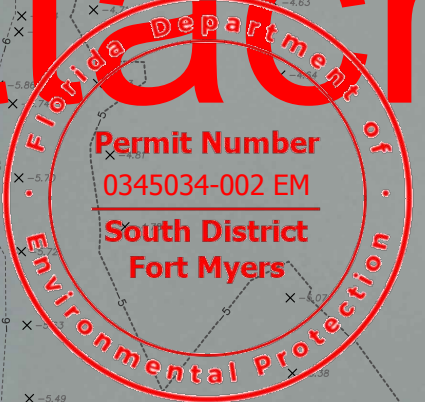
NO.	REVISIONS / SUBMISSIONS	DATE

PROJECT NO	C2015-037
DATE	AUGUST 2016
DESIGNED	JP
DRAWN	RLJ
CHECKED	CAS
REVIEWED	CLT
SCALE	AS SHOWN

EROSION & SEDIMENT CONTROL DETAILS

REBECCA JOHNSON, 8/24/2016 9:39:02 AM, X:\wpj\Projects\2015\037 Naples Bay Oyster BestConstruction\2015\037-C-Turbidity.dwg

Attachment D



REEFBALL WAVE ATTENUATION STRUCTURE UNIT LOCATION TABLE			
POINT NUMBER	NORTHING	EASTING	DESCRIPTION
101	646967.21	398611.92	REEFBALL UNIT 1
102	646893.91	398596.02	REEFBALL UNIT 1
103	646830.35	398635.84	REEFBALL UNIT 1
104	646837.26	398646.86	REEFBALL UNIT 1
105	646896.33	398609.85	REEFBALL UNIT 1
106	646964.45	398624.62	REEFBALL UNIT 1
201	646781.10	398644.46	REEFBALL UNIT 2
202	646707.80	398628.56	REEFBALL UNIT 2
203	646644.25	398668.38	REEFBALL UNIT 2
204	646651.15	398679.40	REEFBALL UNIT 2
205	646710.22	398642.39	REEFBALL UNIT 2
206	646778.35	398657.16	REEFBALL UNIT 2
301	646595.00	398676.99	REEFBALL UNIT 3
302	646521.70	398661.10	REEFBALL UNIT 3
303	646458.15	398700.92	REEFBALL UNIT 3
304	646465.05	398711.94	REEFBALL UNIT 3
305	646524.12	398674.93	REEFBALL UNIT 3
306	646592.24	398689.70	REEFBALL UNIT 3



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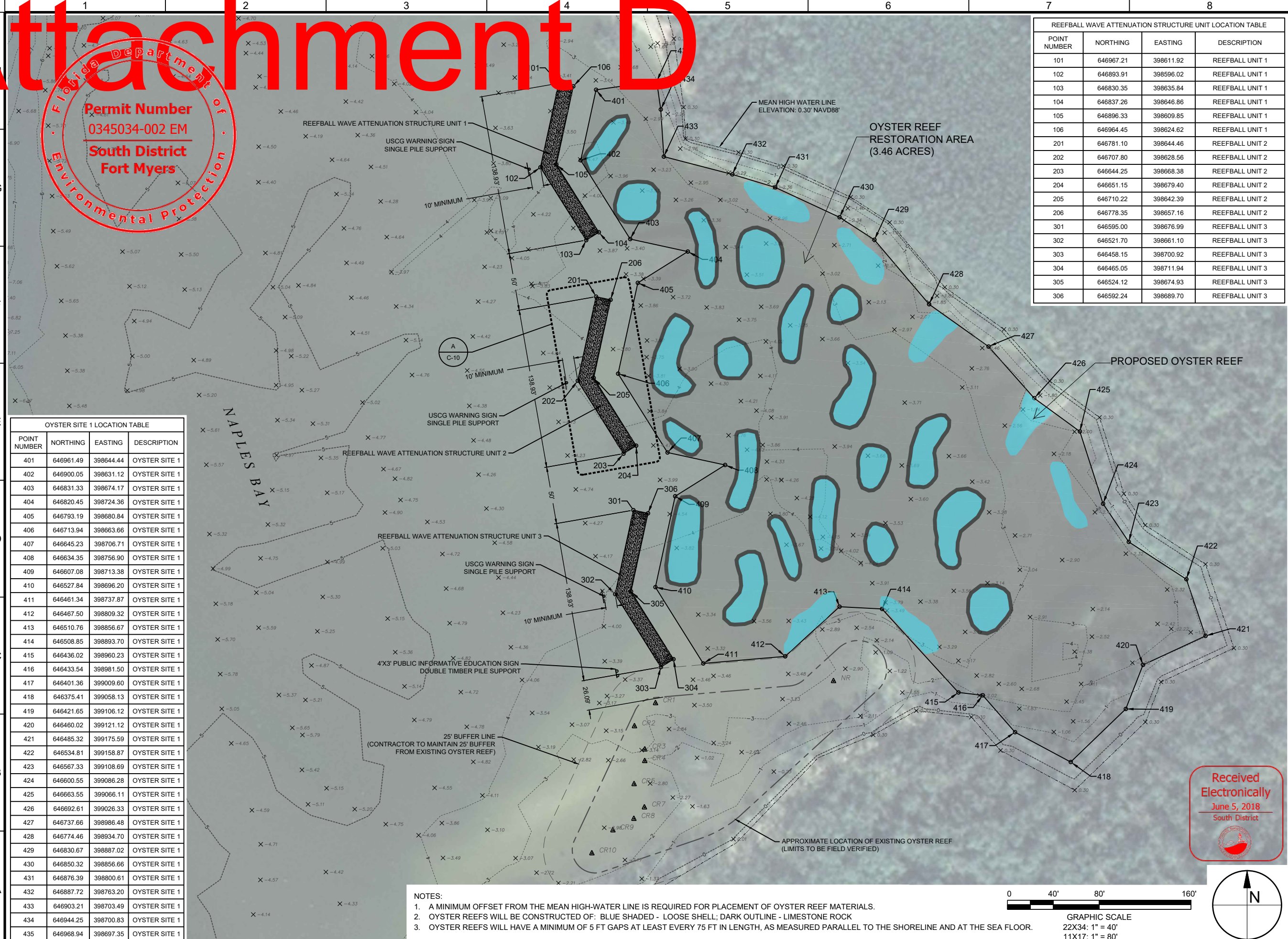
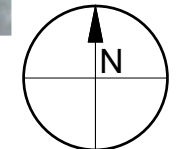
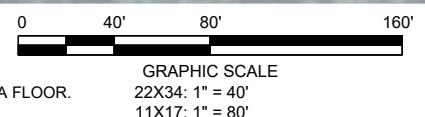
PROJECT NO	
DATE	
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CHECKED	
REVIEWED	
SCALE	AS SHOWN
DRAWING TITLE	

SITE PLAN SITE 1

SHEET 1 OF 3

OYSTER SITE 1 LOCATION TABLE			
POINT NUMBER	NORTHING	EASTING	DESCRIPTION
401	646961.49	398644.44	OYSTER SITE 1
402	646900.05	398631.12	OYSTER SITE 1
403	646831.33	398674.17	OYSTER SITE 1
404	646820.45	398724.36	OYSTER SITE 1
405	646793.19	398680.84	OYSTER SITE 1
406	646713.94	398663.66	OYSTER SITE 1
407	646645.23	398706.71	OYSTER SITE 1
408	646634.35	398756.90	OYSTER SITE 1
409	646607.08	398713.38	OYSTER SITE 1
410	646527.84	398696.20	OYSTER SITE 1
411	646461.34	398737.87	OYSTER SITE 1
412	646467.50	398809.32	OYSTER SITE 1
413	646510.76	398856.67	OYSTER SITE 1
414	646508.85	398893.70	OYSTER SITE 1
415	646436.02	398960.23	OYSTER SITE 1
416	646433.54	398981.50	OYSTER SITE 1
417	646401.36	399009.60	OYSTER SITE 1
418	646375.41	399058.13	OYSTER SITE 1
419	646421.65	399106.12	OYSTER SITE 1
420	646460.02	399121.12	OYSTER SITE 1
421	646485.32	399175.59	OYSTER SITE 1
422	646534.81	399158.87	OYSTER SITE 1
423	646567.33	399108.69	OYSTER SITE 1
424	646600.55	399086.28	OYSTER SITE 1
425	646663.55	399066.11	OYSTER SITE 1
426	646692.61	399026.33	OYSTER SITE 1
427	646737.66	398986.48	OYSTER SITE 1
428	646774.46	398934.70	OYSTER SITE 1
429	646830.67	398887.02	OYSTER SITE 1
430	646850.32	398856.66	OYSTER SITE 1
431	646876.39	398800.61	OYSTER SITE 1
432	646887.72	398763.20	OYSTER SITE 1
433	646903.21	398703.49	OYSTER SITE 1
434	646944.25	398700.83	OYSTER SITE 1
435	646968.94	398697.35	OYSTER SITE 1

- NOTES:
1. A MINIMUM OFFSET FROM THE MEAN HIGH-WATER LINE IS REQUIRED FOR PLACEMENT OF OYSTER REEF MATERIALS.
 2. OYSTER REEFS WILL BE CONSTRUCTED OF: BLUE SHADED - LOOSE SHELL; DARK OUTLINE - LIMESTONE ROCK
 3. OYSTER REEFS WILL HAVE A MINIMUM OF 5 FT GAPS AT LEAST EVERY 75 FT IN LENGTH, AS MEASURED PARALLEL TO THE SHORELINE AND AT THE SEA FLOOR.



Attachment D

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June 5, 2018
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Florida Department of
Environmental Protection
Permit Number
0345034-002 EM
South District
Fort Myers

HALDEMAN CREEK

OUT TO NAPLES BAY

OYSTER SITE 2 LOCATION TABLE			
POINT NUMBER	NORTHING	EASTING	DESCRIPTION
501	649909.25	398801.47	OYSTER SEEDING SITE 2
502	649888.06	398812.99	OYSTER SEEDING SITE 2
503	649869.27	398875.90	OYSTER SEEDING SITE 2
504	649856.47	398918.77	OYSTER SEEDING SITE 2
505	649824.97	398936.34	OYSTER SEEDING SITE 2
506	649807.09	398931.74	OYSTER SEEDING SITE 2
507	649785.21	398932.09	OYSTER SEEDING SITE 2
508	649761.95	398938.16	OYSTER SEEDING SITE 2
509	649737.40	398935.71	OYSTER SEEDING SITE 2
510	649710.56	398936.82	OYSTER SEEDING SITE 2
511	649655.91	398939.10	OYSTER SEEDING SITE 2
512	649596.43	398971.41	OYSTER SEEDING SITE 2
513	649626.98	399027.65	OYSTER SEEDING SITE 2
514	649607.06	399094.95	OYSTER SEEDING SITE 2
515	649675.08	399132.79	OYSTER SEEDING SITE 2
516	649742.92	399143.02	OYSTER SEEDING SITE 2
517	649794.69	399103.13	OYSTER SEEDING SITE 2
518	649833.91	399070.10	OYSTER SEEDING SITE 2
519	649883.67	399035.44	OYSTER SEEDING SITE 2
520	649911.87	398992.21	OYSTER SEEDING SITE 2
521	649938.98	398952.43	OYSTER SEEDING SITE 2
522	649972.26	398917.46	OYSTER SEEDING SITE 2



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OYSTER RESTORATION
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CITY OF NAPLES, COLLIER COUNTY,
FLORIDA



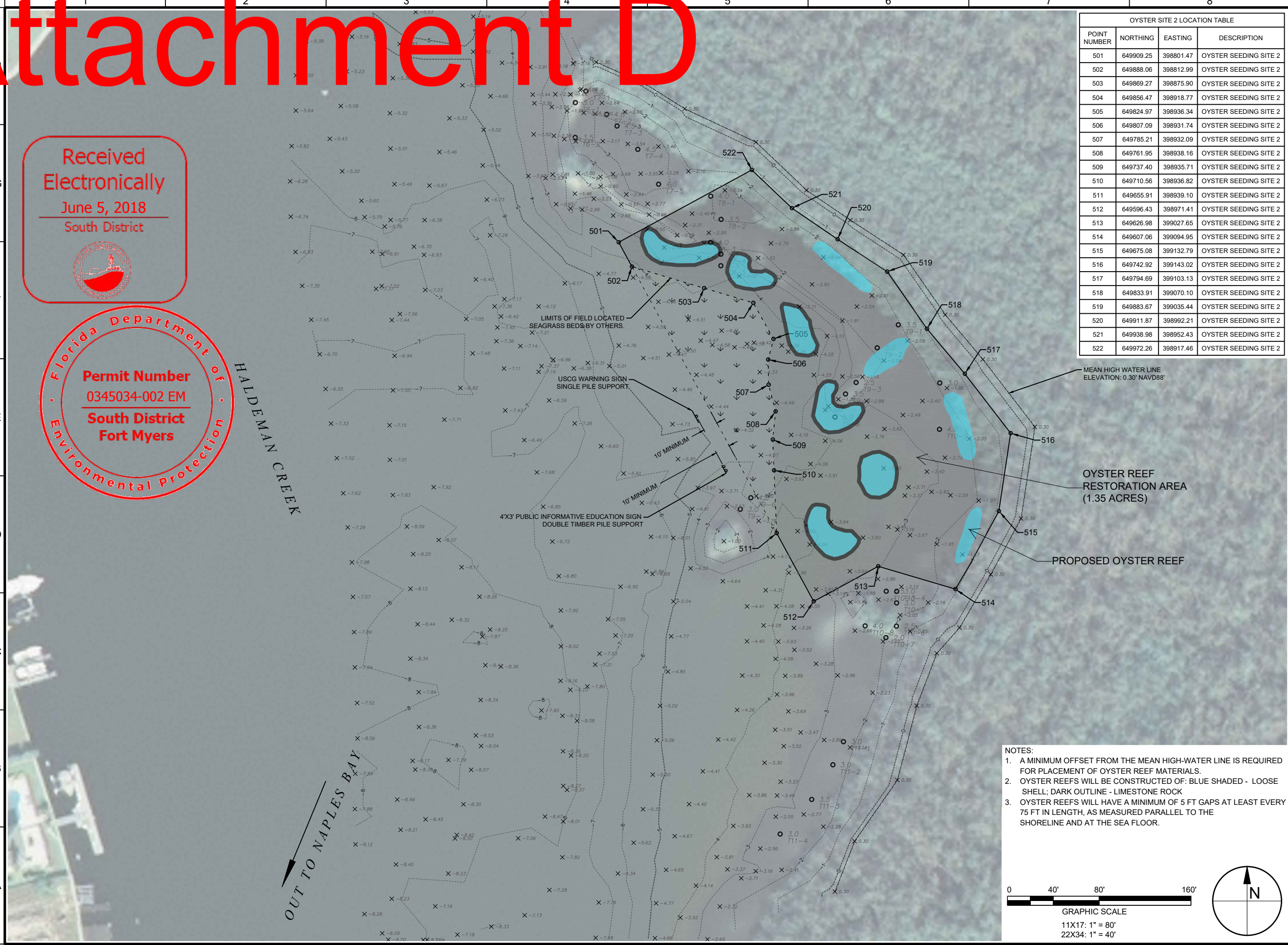
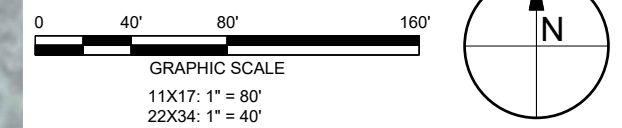
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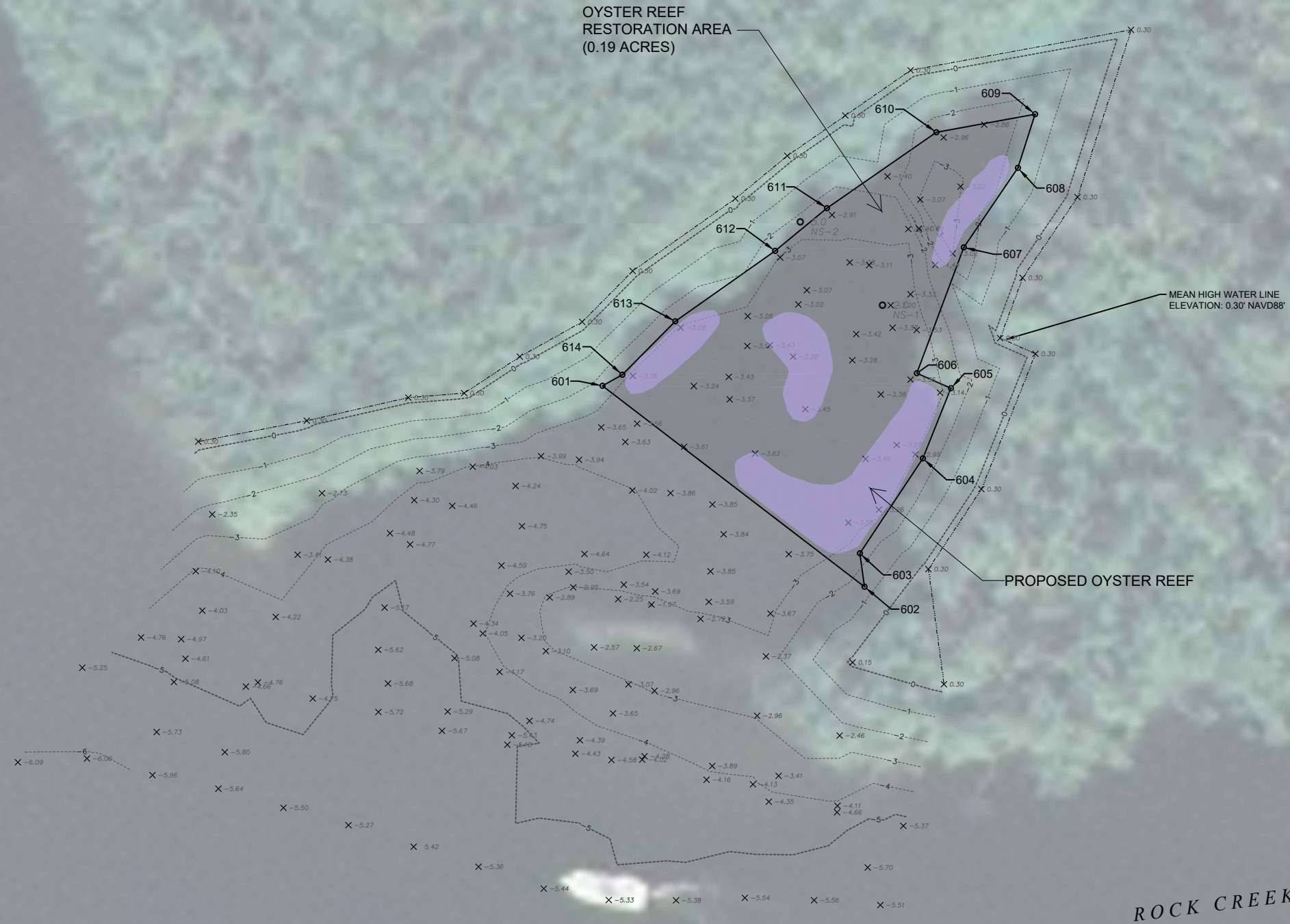
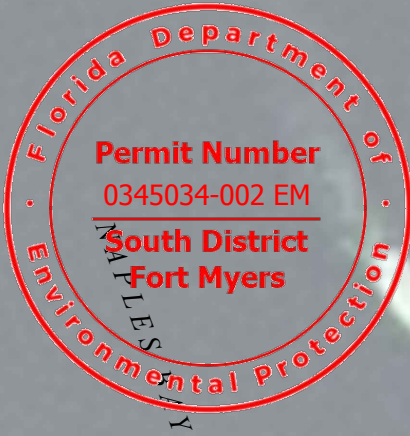
DRAWING TITLE
SITE PLAN SITE 2

- NOTES:
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 3. OYSTER REEFS WILL HAVE A MINIMUM OF 5 FT GAPS AT LEAST EVERY 75 FT IN LENGTH, AS MEASURED PARALLEL TO THE SHORELINE AND AT THE SEA FLOOR.



Attachment D

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June 5, 2018
South District



90% SUBMITTAL
PERMIT APPLICATION
PURPOSES ONLY
NOT FOR
CONSTRUCTION

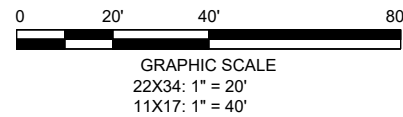
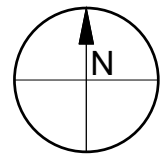
PROJECT TITLE
NAPLES BAY
OYSTER RESTORATION
CONSTRUCTION DRAWINGS
CITY OF NAPLES, COLLIER COUNTY,
FLORIDA

Always call 811 two full business days before you dig
Sunshine811.com

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

OYSTER SITE 3 LOCATION TABLE

POINT NUMBER	NORTHING	EASTING	DESCRIPTION
601	657990.62	398436.80	OYSTER SEEDING SITE 3
602	657929.44	398516.55	OYSTER SEEDING SITE 3
603	657939.60	398515.18	OYSTER SEEDING SITE 3
604	657968.50	398534.34	OYSTER SEEDING SITE 3
605	657989.86	398542.87	OYSTER SEEDING SITE 3
606	657994.44	398532.50	OYSTER SEEDING SITE 3
607	658032.72	398546.79	OYSTER SEEDING SITE 3
608	658056.92	398563.24	OYSTER SEEDING SITE 3
609	658073.27	398568.48	OYSTER SEEDING SITE 3
610	658067.76	398538.43	OYSTER SEEDING SITE 3
611	658044.66	398505.14	OYSTER SEEDING SITE 3
612	658031.67	398489.38	OYSTER SEEDING SITE 3
613	658010.25	398458.96	OYSTER SEEDING SITE 3
614	657993.98	398442.83	OYSTER SEEDING SITE 3



NOTES:

1. A MINIMUM OFFSET FROM THE MEAN HIGH-WATER LINE IS REQUIRED FOR PLACEMENT OF OYSTER CELL/POD.
2. OYSTER REEFES WILL BE CONSTRUCTED OF: PURPLE SHADED - SHELL CONTAINED IN MESH BAGS.
3. OYSTER REEFES WILL HAVE A MINIMUM OF 5 FT GAPS AT LEAST EVERY 75 FT IN LENGTH, AS MEASURED PARALLEL TO THE SHORELINE AND AT THE SEA FLOOR.

NO	ZONE	REVISIONS / SUBMISSIONS	DATE

PROJECT NO	
DATE	
DESIGNED	
DRAWN	
CHECKED	
REVIEWED	
SCALE	AS SHOWN

DRAWING TITLE
SITE PLAN SITE 3

SHEET 3 OF 3

Attachment D



FLORIDA DEPARTMENT OF Environmental Protection

South District
PO Box 2549
Fort Myers FL 33902-2549
SouthDistrict@FloridaDEP.gov

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Shawn Hamilton
Secretary

September 17, 2021

City of Naples Natural Resources
c/o Katie Laakkonen
295 Riverside Cir
Naples, FL 34102
klaakkonen@naplesgov.com

File No.: 345034-003 EM, Collier County
Permit Number: 345034-001/002 EM

Dear Applicant:

Your request to modify the Permit No. 345034-002 EM has been received and reviewed by Department staff.

The expiration date of the construction of the permit has been changed as follows:

From: October 23, 2021

To: October 23, 2026

All dates contained in the terms and conditions of the permit pertaining to deadlines, such as for commencing or completing construction, completing any mitigation, and submitting reports for the activity authorized by the permit are modified in recognition of, and relative to, the new expiration date. You are advised that s. 252.363, F.S., requires that, "If the permit or other authorization for a phased construction project is extended, the commencement and completion dates for any required mitigation are extended such that the mitigation activities occur in the same timeframe relative to the phase as originally permitted."

In accordance with s. 252.363, F.S., the permitted activity will continue to be governed by the rules in effect at the time the permit was issued. However, any future request to modify the permit, except where the modification lessens the environmental impact, will be governed by the rules in effect at the time of the modification.

This extension does not:

1. Alter any other terms or conditions of the permit.

Attachment D

File Name: City of Naples National Resource

File No: 345034-003 EM

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2. Affect the expiration date of any associated state-owned submerged lands lease or easement that was executed for the activities authorized in the permit. It also does not change any terms or conditions contained in the lease or easement, such as deadlines for submittal of any required lease fees.
3. Affect the water quality certification determination under Section 401, Public Law 92-500, 33 U.S.C. Section 1341 made as part of the permit.
4. Affect the coastal zone consistency concurrence determination made under Florida's Coastal Zone Management Program in Section 307 of the Coastal Zone Management Act and 15 CFR 930, Subpart D originally contained in the permit.
5. Affect the expiration date of any state, federal, or local permit, license, or authorization related to this permit, specifically including any federal permit under Section 404 of the Clean Water Act or Section 10 of the Rivers and Harbors Act of 1899.

Sincerely,



Jon M. Iglehart
Director of District Management
South District

cc: USACOE, [Fort Myers](#)