

PERMIT NUMBER: SAJ-2014-03340-(SP-GGM).
PERMITTEE: City of Key West/Jim Scholl.

PAGE 2 of 31.

1. The time limit for completing the work authorized ends on June 17, 2024.
If you find that you need more time to complete the authorized activity, submit your request for a time extension to this office for consideration at least one month before the above date is reached.

2. You must maintain the activity authorized by this permit in good condition and in conformance with the terms and conditions of this permit. You are not relieved of this requirement if you abandon the permitted activity, although you may make a good faith transfer to a third party in compliance with General Condition 4 below. Should you wish to cease to maintain the authorized activity or should you desire to abandon it without a good faith transfer, you must obtain a modification of this permit from this office, which may require restoration of the area.

3. If you discover any previously unknown historic or archeological remains while accomplishing the activity authorized by this permit, you must immediately notify this office of what you have found. We will initiate the Federal and State coordination required to determine if the remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.

4. If you sell the property associated with this permit, you must obtain the signature and the mailing address of the new owner in the space provided and forward a copy of the permit to this office to validate the transfer of this authorization.

5. If a conditioned water quality certification has been issued for your project, you must comply with the conditions specified in the certification as special conditions to this permit. For your convenience, a copy of the certification is attached if it contains such conditions.

6. You must allow representatives from this office to inspect the authorized activity at any time deemed necessary to ensure that it is being or has been accomplished in accordance with the terms and conditions of your permit.

PERMIT NUMBER: SAJ-2014-03340-(SP-GGM).
PERMITTEE: City of Key West/Jim Scholl.

PAGE 3 of 31.

Special Conditions:

1. **REPORTING ADDRESS:** The Permittee shall submit all reports, notifications, documentation and correspondence required by the conditions of this permit shall be submitted to the following address:

a. For standard mail: U.S. Army Corps of Engineers, Regulatory Division, Enforcement Branch, 9900 Southwest 107th Avenue, Suite 203, Miami, Florida 33176.

b. For electronic mail: SAJ-RD-Enforcement@usace.army.mil (not to exceed 10 MB).

The Permittee shall reference this permit number, SAJ-2014-03340 (SP-GGM), on all submittals.

2. **SELF-CERTIFICATION:** Within 60 days of completion of the work authorized by this permit, the Permittee shall complete the attached "Self-Certification Statement of Compliance" form (Attached) and submit it to the Corps. In the event that the completed work deviates in any manner from the authorized work, the Permittee shall describe the deviations between the work authorized by this permit and the work as constructed on the "Self-Certification Statement of Compliance" form. The description of any deviations on the "Self-Certification Statement of Compliance" form does not constitute approval of any deviations by the Corps.

3. **COMMENCEMENT NOTICE:** Within ten (10) days from the date of initiating the authorized work, the Permittee shall provide to the Corps a written notification of the date of commencement of work authorized by this permit.

4. **ASSURANCE OF NAVIGATION AND MAINTENANCE:** The Permittee understands and agrees that, if future operations by the United States require the removal, relocation, or other alteration, of the structures or work herein authorized, or if in the opinion of the Secretary of the Army or his authorized representative, said structure or work shall cause unreasonable obstruction to the free navigation of the navigable waters, the Permittee will be required, upon due notice from the Corps of Engineers, to remove, relocate, or alter the structural work or obstructions caused thereby, without expense to the United States. No claim shall be made against the United States on account of any such removal or alteration.

5. **MANATEE CONDITIONS:** The Permittee shall abide by the enclosed standard construction conditions designed to protect the endangered West Indian manatee, 2011.

PERMIT NUMBER: SAJ-2014-03340-(SP-GGM).
PERMITTEE: City of Key West/Jim Scholl.

PAGE 4 of 31.

6. SEA TURTLE AND SMALLTOOTH SAWFISH CONDITIONS: The Permittee shall comply with National Marine Fisheries Service's "Sea Turtle and Smalltooth Sawfish Construction Conditions" dated March 23, 2006, (Attached).

7. POSTING OF PERMIT: The Permittee shall ensure that all contractors, sub-contractors, and entities associated with the implementation of the project review, understand, and comply with the approved plans and special conditions made part of this permit. The Permittee shall inform all parties associated with the activity of the construction area boundaries, and the location of adjacent submerged aquatic resources (i.e. seagrass) to be avoided. Complete copies of the permit and approved plans shall be available at the construction site at all times. Failure to comply with the approved plans and permit special conditions may subject the Permittee to enforcement action.

8. AGENCY CHANGES/APPROVALS: Should any other agency require and/or approve changes to the work authorized or obligated by this permit, the Permittee is advised a modification to this permit instrument is required prior to initiation of those changes. It is the Permittee's responsibility to request a modification of this permit from the Miami Permits Section. The Corps reserves the right to fully evaluate, amend, and approve or deny the request for modification of this permit.

9. CULTURAL RESOURCES/HISTORIC PROPERTIES:

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

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

PERMIT NUMBER: SAJ-2014-03340-(SP-GGM).
PERMITTEE: City of Key West/Jim Scholl.

PAGE 5 of 31.

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

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

10. TURBIDITY BARRIERS: Prior to the initiation of any of the work authorized by this permit the Permittee shall install floating turbidity barriers with weighted skirts that extend to within one foot of the bottom around all work areas that are in, or adjacent to, surface waters. The turbidity barriers shall remain in place and be maintained until the authorized work has been completed and all erodible materials have been stabilized. Turbidity barriers shall be removed upon stabilization of the work area.

11. DAYLIGHT HOURS: All activities must be completed during daylight hours.

12. CONSTRUCTION LOCATION: Project construction shall take place from uplands or from floating equipment (e.g., barge); prop or wheel-washing is prohibited.

13 NOISE EFFECTS BMPS: All projects shall comply with the requirements of the attached "Noise Best Management Practices (BMPs) for Piling Installation". All piles will be driven via a vibratory hammer and shall be limited to 4 piles to be driven per day.

14. MOORING VESSEL PLAN: The Permittee shall ensure to comply with the attached, approved Mooring Vessel Plan, as to maintain navigation safety on this waterway. There shall be No Mooring of any vessel on the outer side of the pier closest to the Navy operation facility on Trumbo Point's Pier D-1, depicted on page 7 of 7 of the approved drawings, date stamped May 30, 2019.

PERMIT NUMBER: SAJ-2014-03340-(SP-GGM).
PERMITTEE: City of Key West/Jim Scholl.

PAGE 6 of 31.

15. BEST MANAGEMENT PRACTICE (BMP): Environmental controls and BMP must be implemented to properly contain construction materials and prevent fugitive particulates from entering surrounding waters during construction.

16. RESTRICTIONS: This permit does not authorize impacts to submerged aquatic resources (i.e. seagrass).

17. FLORIDA KEYS NATIONAL MARINE SANCTUARY: This Corps permit does not authorize you to damage, diminish, degrade, impair, destroy, or otherwise harm any Florida Keys National Marine Sanctuary (FKNMS) trust resource.

18. PROJECT DRAWINGS: The project must be completed in accordance with the enclosed construction drawings (7 pages), date-stamped by the U.S. Army Corps of Engineers (Corps) on May 30, 2019 and the general and special conditions which are incorporated in, and made a part of, the permit.

Further Information:

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

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

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

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

2. Limits of this authorization.

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

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

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

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

PERMIT NUMBER: SAJ-2014-03340-(SP-GGM).
PERMITTEE: City of Key West/Jim Scholl.

PAGE 7 of 31.

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

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

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

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

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

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

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

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

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

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

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

Such a reevaluation may result in a determination that it is appropriate to use the suspension, modification, and revocation procedures contained in 33 CFR 325.7 or enforcement procedures such as those contained in 33 CFR 326.4 and 326.5. The referenced enforcement procedures provide for the issuance of an administrative order requiring you comply with the terms and conditions of your permit and for the initiation of legal action where appropriate. You will be required to pay for any corrective measures ordered by this office, and if you fail to comply with such directive, this office may in certain situations (such as those specified in 33 CFR 209.170) accomplish the corrective measures by contract or otherwise and bill you for the cost.

PERMIT NUMBER: SAJ-2014-03340-(SP-GGM).
PERMITTEE: City of Key West/Jim Scholl.

PAGE 8 of 31.

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

PERMIT NUMBER: SAJ-2014-03340-(SP-GGM).
PERMITTEE: City of Key West/Jim Scholl.

PAGE 9 of 31.

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

Jim Scholl
(PERMITTEE)

05 JUNE 2019
(DATE)

J. K. SCHOLL
(PERMITTEE NAME-PRINTED)

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

Andrew D. Kelly Jr.
(DISTRICT ENGINEER)
Andrew D. Kelly Jr.,
Colonel, U.S. Army
District Commander

6-13-19
(DATE)

PERMIT NUMBER: SAJ-2014-03340-(SP-GGM).
PERMITTEE: City of Key West/Jim Scholl.

PAGE 10 of 31.

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

(TRANSFEREE-SIGNATURE)

(DATE)

(NAME-PRINTED)

(ADDRESS)

(CITY, STATE, AND ZIP CODE)

PERMIT NUMBER: SAJ-2014-03340-(SP-GGM).
PERMITTEE: City of Key West/Jim Scholl.

PAGE 11 of 31.

***Attachments to Department of the Army
Permit Number SAJ-2014-03340-(SP-GGM)***

1. PERMIT DRAWINGS: 7 pages, dated May 30, 2019.
2. General Conditions.
3. STANDARD MANATEE CONDITIONS: 2 pages, *Standard Manatee Conditions for In-Water Work – 2011*.
4. SEA TURTLE – SAWFISH CONDITIONS: 1 page, *Sea Turtle and Smalltooth Sawfish Construction Conditions, revised March 23, 2006*.
5. A-Built Certification Form (2 pages)
6. Self-Certification Statement of Compliance Form (1 page).
7. Key West Bight Operational Plan & Notice of Navy Restricted Area: 2 page.
8. DA Permit Transfer Request Form.
9. ADDITIONAL DOCUMENTS: As required.

CITY OF KEY WEST

TRUMBO ROAD FLOATING DOCKS

KEY WEST BIGHT MARINA

MONROE COUNTY, FLORIDA
STANTEC PROJECT NO. 215614138

SECTION: 31
TOWNSHIP: 67 S
RANGE: 25 E
LATITUDE: 24° 33' 22" N
LONGITUDE: 81° 47' 55.51" W

INDEX OF SHEETS

SHEET NO.	SHEET DESCRIPTION
C01	COVER
C02	OVERALL AERIAL PLAN
C03	EXISTING SITE PLAN
C04	GEOMETRY PLAN
C05	UTILITY SERVICE PLAN
C06	DETAILS PROPOSED UTILITY / DOCK



LOCATION MAP
Scale: 1"=1000'



MAYOR & COUNCIL:

Craig Cates, Mayor
Jimmy Weekley, Commissioner
Samuel Kaufman, Commissioner
Billy Wardlow, Commissioner
Richard Payne, Commissioner
Margaret Romero, Commissioner
Clayton Lopez, Commissioner

City Manager: Jim Scholl

SEPTEMBER, 2017
PERMIT SET

APPROVED BY

*****APPROVALS*****			
AGENCY	SUBMITTAL DATE	APPROVAL DATE	PERMIT NUMBER



901 Ponce de Leon Blvd, Suite 900
Coral Gables, Florida, 33134
Tel. 305-445-2900
Fax. 305-445-3344
www.stantec.com

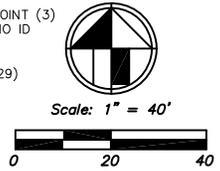
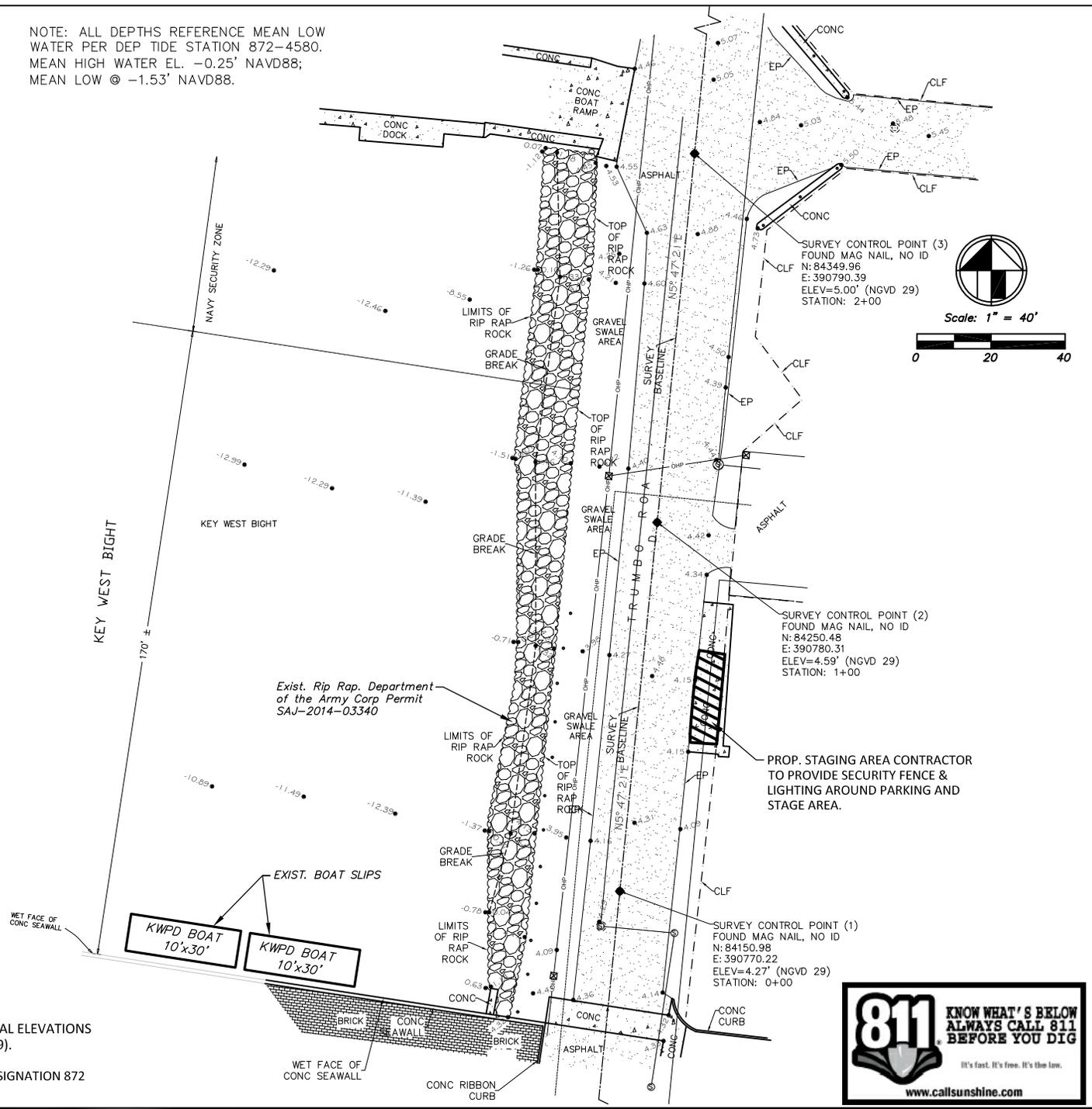
CARLOS M. HERDOCIA
REGISTERED ENGINEER NO. 47660
STATE OF FLORIDA

CONSTRUCTION NOTE:

Location of existing facilities as shown on construction drawings are from available records. The Engineer assumes no responsibility for the accuracy of the facilities shown or for any facility not shown. Verify the elevation, type of pipes and location of existing facilities prior to construction. If an existing facility is found to conflict with the proposed construction upon excavation the contractor shall immediately notify the engineer of record so that appropriate measures can be taken to resolve the problem. Contractor to notify Owner and Sunshine State One Call of Florida, Inc. @ 811 at Least Forty Eight (48) Hours Prior to Excavating. Evidence of such notice shall be furnished to Stantec prior to excavating.

SITE SURVEY INFORMATION FROM:
 FLORIDA KEYS LAND SURVEYING
 19960 OVERSEAS HIGHWAY
 SUGARLOAF KEY, FL 33042
 FIELD WORK DATE: SEPTEMBER 5, 2017
 REVISION DATE: SEPTEMBER 27, 2017
 SIGNED AND SEALED BY:
 ERIC A. ISAACS PSM# 6783, LB# 7847

NOTE: ALL DEPTHS REFERENCE MEAN LOW WATER PER DEP TIDE STATION 872-4580.
 MEAN HIGH WATER EL. -0.25' NAVD88;
 MEAN LOW @ -1.53' NAVD88.



NOTES:

ELEVATIONS SHOWN AT THE BOTTOM OF "KEY WEST BIGHT" ARE ACTUAL ELEVATIONS BASED ON NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 1929).

BENCHMARK DESCRIPTION: NATIONAL GEODETIC SURVEY BENCHMARK: DESIGNATION 872 4580 TIDAL BASIC, P.I.D. AA0008, ELEVATION= 14.32' (NGVD 1929).

811 KNOW WHAT'S BELOW ALWAYS CALL 811 BEFORE YOU DIG
 It's fast. It's free. It's the law.
 www.callsunshine.com

Revision	By	Appd.	YY/MM/DD	Issued	By	Appd.	YY/MM/DD

Seal

Consultants

Stantec
 901 Ponce de Leon Blvd, Suite 900
 Coral Gables, Florida 33134
 www.stantec.com

USACE SAJ-2014-03340-(SP-GGM)
 Page 3 of 7. May 30, 2019.

CARLOS M. HERROCK, P.E.
 REGISTERED ENGINEER NO. 47666
 STATE OF FLORIDA

CITY OF KEY WEST
 TRUMBO ROAD FLOATING DOCKS
 KEY WEST BIGHT MARINA

File Name: _____
 DS: _____ SC: _____ DS: 17.09.20
 Dwn. Chkd. Degr. YY/MM/DD

EXISTING CONDITIONS

Project No. 215614138 Scale _____
 Drawing No. _____ Sheet _____ Revision _____

C03 of 6

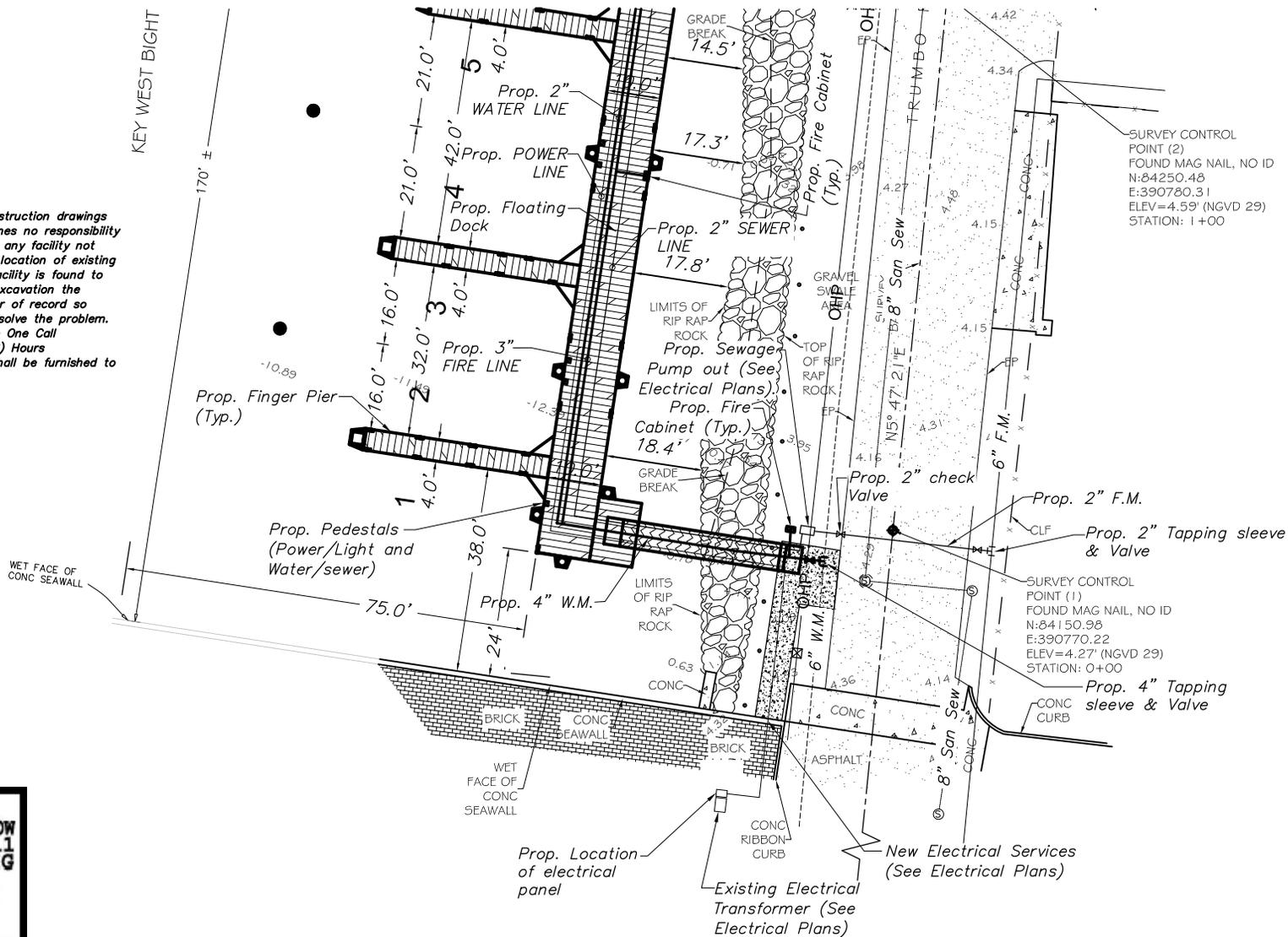


Scale: 1" = 30'



CONSTRUCTION NOTE:

Location of existing facilities as shown on construction drawings are from available records. The Engineer assumes no responsibility for the accuracy of the facilities shown or for any facility not shown. Verify the elevation, type of pipes and location of existing facilities prior to construction. If an existing facility is found to conflict with the proposed construction upon excavation the contractor shall immediately notify the engineer of record so that appropriate measures can be taken to resolve the problem. Contractor to notify Owner and Sunshine State One Call of Florida, Inc. @ 811 at Least Forty Eight (48) Hours Prior to Excavating. Evidence of such notice shall be furnished to Stantec prior to excavating.



X:\215614138\215614138\DWG\215614138.dwg, 17:29:30 11/20/19 By: [unreadable]

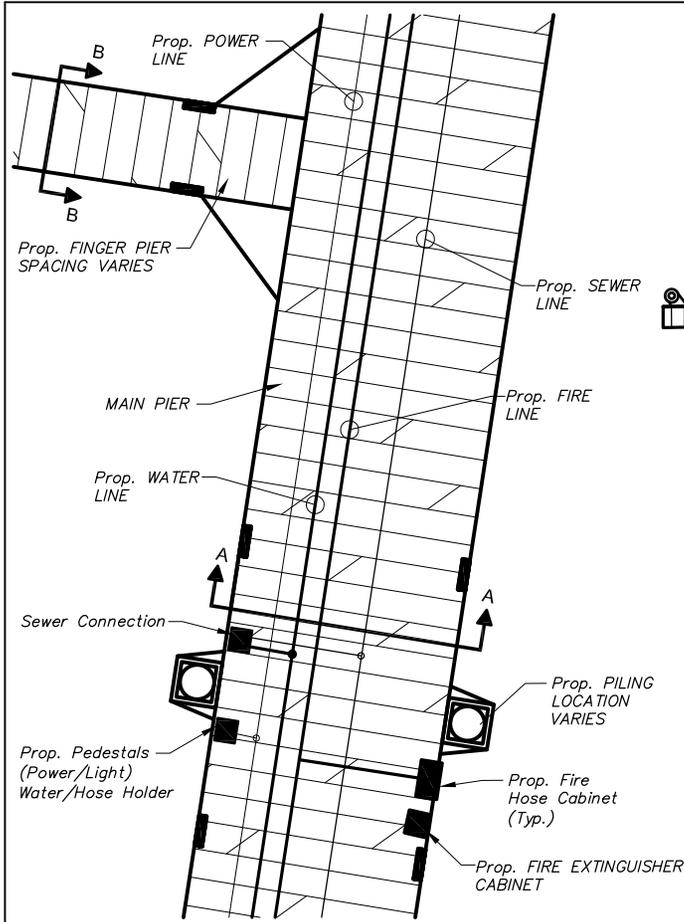
Revision	By	Appd.	YY.MM.DD	Issued	By	Appd.	YY.MM.DD

Seal	Consultants
CARLOS M. HERROCK, P.E. REGISTERED ENGINEER NO. 47668 STATE OF FLORIDA	

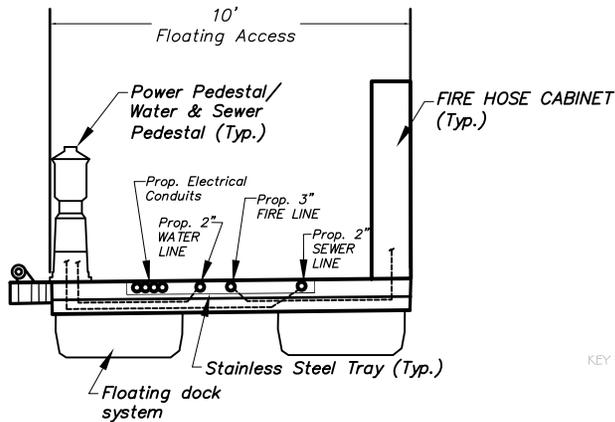
Stantec
 901 Ponce de Leon Blvd, Suite 900
 Coral Gables, Florida 33134
 www.stantec.com

CITY OF KEY WEST TRUMBO ROAD FLOATING DOCKS KEY WEST BIGHT MARINA	DS SC DS 17.09.20 Dwn. Chk. Dgn. YYY.MM.DD
---	--

UTILITY SERVICE PLAN	
Project No. 215614138	Scale SEE PLANS
Drawing No. C05	Sheet of 6



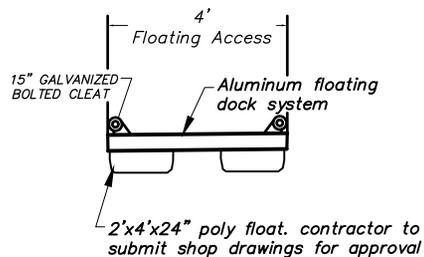
TYPICAL PEDESTAL /CABINET LOCATION



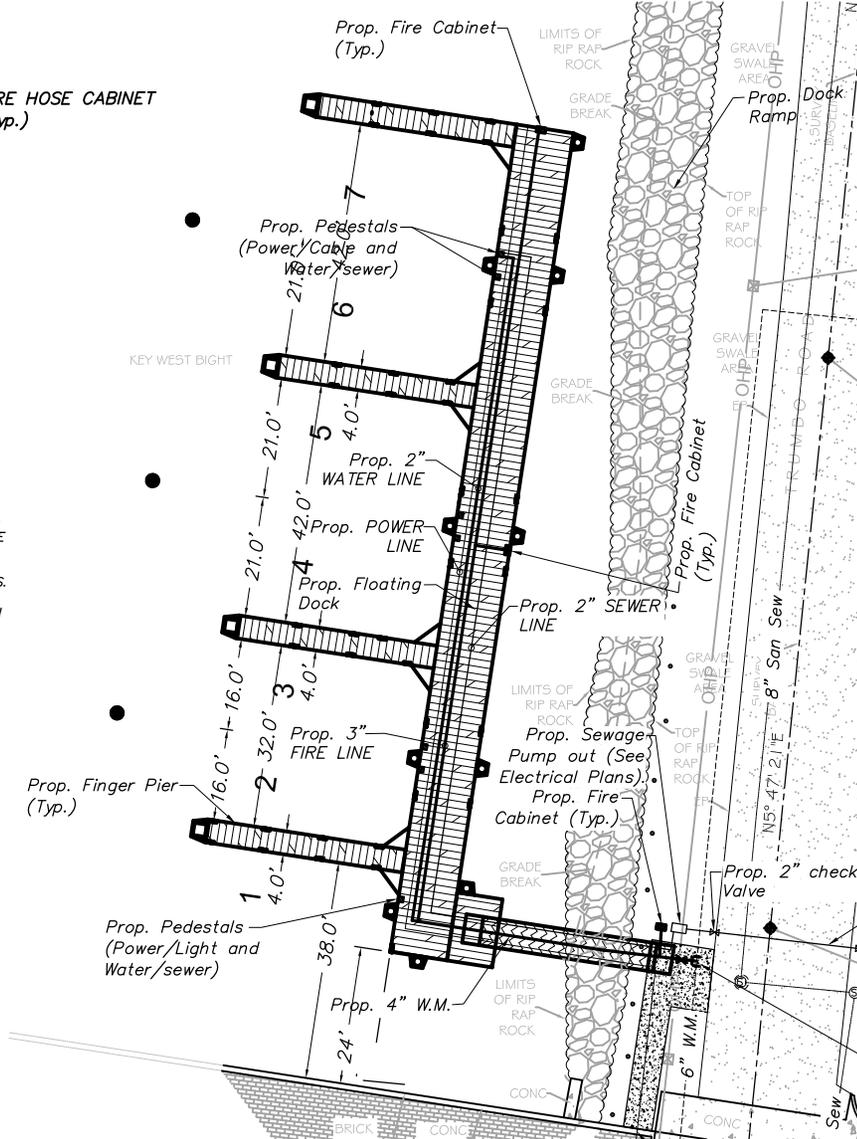
SECTION A-A

NOTES:

- 1) POSITION UTILITY PEDESTAL AND CABINETS AS CLOSE TO END OF MAIN PIER AS POSSIBLE TO MAXIMIZE CLEAR SPACE FROM EQUIPMENT UP TO FINGER PIER.
- 2) ALL UTILITIES SHALL BE RUN IN STAINLESS STEEL TRAYS.
- 3) SEWER LINE, WATER LINE, FIRE LINE, POWER LINE SHOWN FOR COORDINATION ONLY. SEE CONSTRUCTION PLANS OF OTHER TRADES FOR ADDITIONAL INFORMATION.



SECTION B-B



OVERALL PEDESTAL CABINET LOCATION

CONSTRUCTION NOTE:

Location of existing facilities as shown on construction drawings are from available records. The Engineer assumes no responsibility for the accuracy of the facilities shown or for any facility not shown. Verify the elevation, type of pipes and location of existing facilities prior to construction. If an existing facility is found to conflict with the proposed construction upon excavation the contractor shall immediately notify the engineer of record so that appropriate measures can be taken to resolve the problem. Contractor to notify Owner and Sunshine State One Call of Florida, Inc. @ 811 at Least Forty Eight (48) Hours Prior to Excavating. Evidence of such notice shall be furnished to Stantec prior to excavating.



215614138.dwg (215614138) 11/11/2019 11:21 AM By: [unreadable]

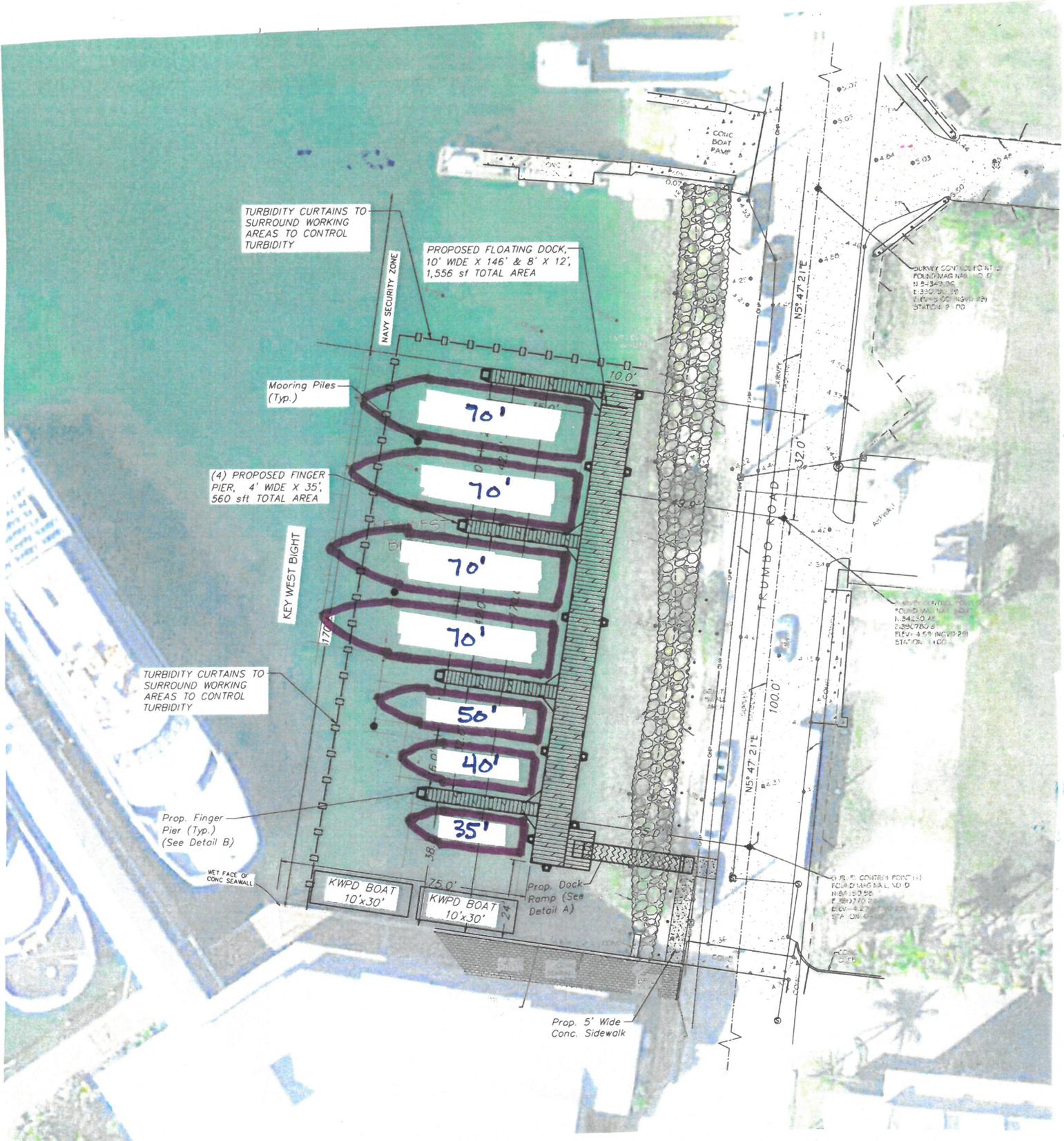
Revision	By	Appd.	YY/MM/DD	Issued	By	Appd.	YY/MM/DD

Seal	Consultants
USACE SAJ-2014-03340-(SP-GGM) CARLOS M. HEREDIA, P.E. REGISTERED ENGINEER NO. 47668 STATE OF FLORIDA	

901 Ponce de Leon Blvd, Suite 900
 Coral Gables, Florida 33134
 USA

CITY OF KEY WEST TRUMBO ROAD FLOATING DOCKS KEY WEST BIGHT MARINA	
File Name:	DS SC DS 17.09.20 Dwn. Chk. Dgn.

UTILITY DOCKS DETAILS Project No. 215614138 Drawing No. _____		Scale SEE PLANS Sheet _____ Revision _____
C06		of 6



VESSEL MOORING PLAN

SCALE: 1" = 40'

Permit Application SAJ-2014-03340-(SP-GGM)
PROPOSED TRUMBO ROAD FLOATING DOCKS
KEY WEST BIGHT MARINA

USACE SAJ-2014-03340-(SP-GGM).

Page 7 of 7. May 30, 2019.



THE CITY OF KEY WEST

Post Office Box 1409 Key West, FL 33041-1409 (305) 809-3700

U.S. Army Corps of Engineers
Gletys Guardia-Montoya
Miami Permits Section
9900 SW 107th Avenue, Suite 203
Miami, FL 33176

November 7, 2018

Re: Permit Application SAJ-2014-03340-(SP-GGM)

Dear Gletys Guardia-Montoya:

In response to your request for an operational plan for navigation within the harbor for the proposed addition of floating docks along Trumbo Road the City of Key West offers the following:

City of Key West Staff at Key West Bight Marina will control, through a reservation system, placement of vessels on the Trumbo Road Docks in a manner that adheres to common marina standards. Additionally, Key West Bight Marina staff will coordinate and manage vessel traffic transiting the Key West Bight and docks along Trumbo Road to ensure safe movements of all vessels including ferry boats. A chart depicting the Federal Channel and the Navy Protective Zone will be distributed to all vessels renting slips on the Trumbo Road Docks either in the advance reservation stage or at the Dockmasters Office for drive up reservations.

If there are any further questions, or requests for clarification, please contact me at your convenience.

Sincerely,

A handwritten signature in blue ink, appearing to read "Karen Olson", is written over a blue horizontal line.

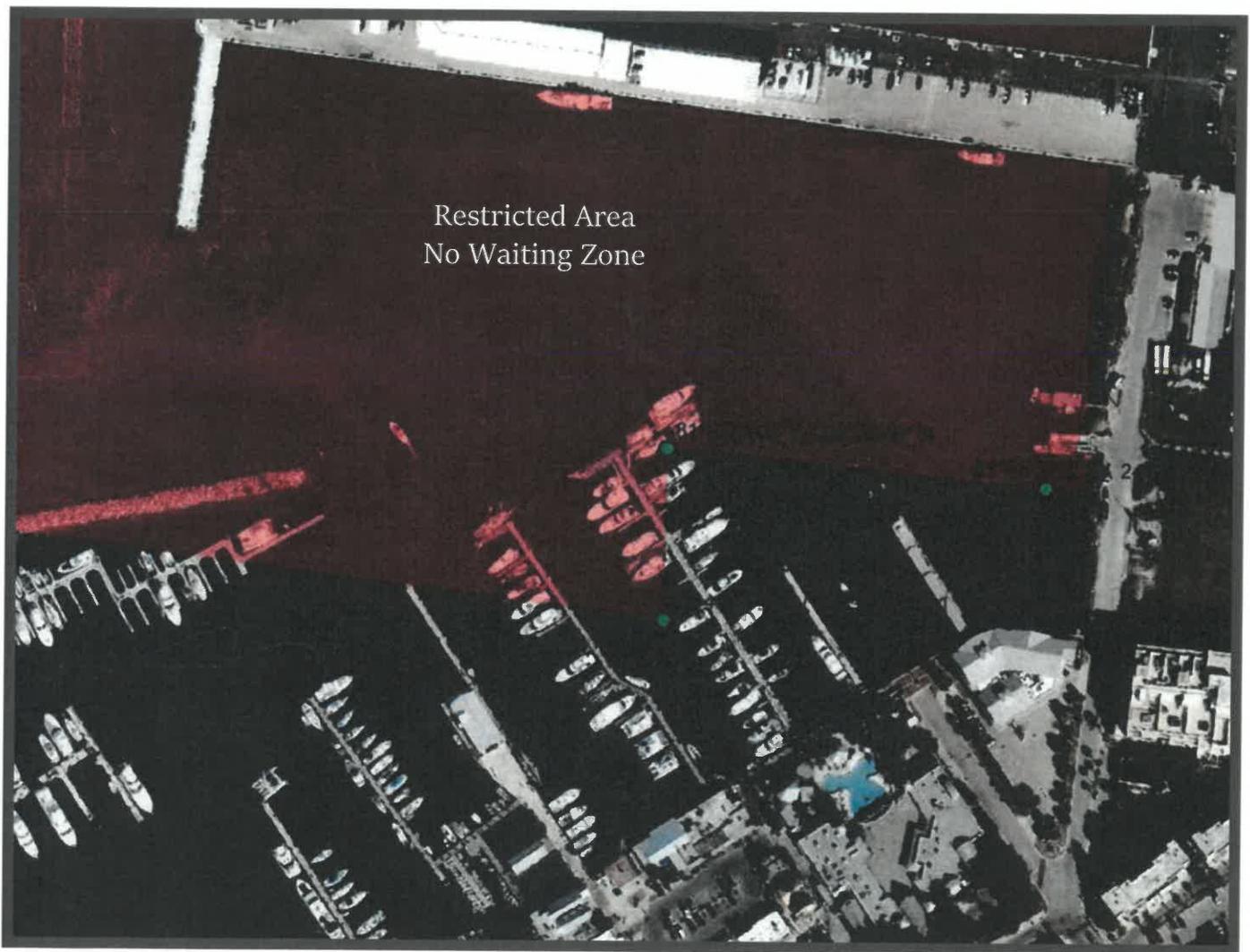
Karen Olson, Deputy Director
Port & Marine Services
City of Key West

Attachment: Notice

NOTICE

NAVY RESTRICTED AREA

Thank you for making your reservation at our marina. The following notice applies to all vessels entering the historic seaport Key West Bight. The diagram below shows the restricted area. It is a violation to wait or stage in this area. Please stage before you enter the seaport.



SELF-CERTIFICATION STATEMENT OF COMPLIANCE

Permit Number: SAJ- - (-)

Permittee's Name & Address (please print or type): _____

Telephone Number: _____

Location of the Work: _____

Date Work Started: _____ Date Work Completed: _____

**PROPERTY IS INACCESSIBLE WITHOUT PRIOR NOTIFICATION: YES ___NO___
PLEASE CONTACT _____ AT _____
TO SCHEDULE AN INSPECTION**

Description of the Work (e.g. bank stabilization, residential or commercial filling, docks, dredging, etc.):

Acreage or Square Feet of Impacts to Waters of the United States: _____

Describe Mitigation completed (if applicable): _____

Describe any Deviations from Permit (attach drawing(s) depicting the deviations):

I certify that all work, and mitigation (if applicable) was done in accordance with the limitations and conditions as described in the permit. Any deviations as described above are depicted on the attached drawing(s).

Signature of Permittee

Date

AS-BUILT CERTIFICATION BY PROFESSIONAL ENGINEER

Submit this form and one set of as-built engineering drawings to the U.S. Army Corps of Engineers, Enforcement Section, 9900 SW 107th Avenue, Suite 203, Miami, FL, 33176-2785. If you have questions regarding this requirement, please contact the Enforcement Branch at 904-232-3131.

1. Department of the Army Permit Number: SAJ- - (-MAA)

2. Permittee Information:

Name: _____

Address: _____

3. Project Site Identification (physical location/address):

4. As-Built Certification: I hereby certify that the authorized work, including any mitigation required by Special Conditions to the permit, has been accomplished in accordance with the Department of the Army permit with any deviations noted below. This determination is based upon on-site observation, scheduled, and conducted by me or by a project representative under my direct supervision. I have enclosed one set of as-built engineering drawings.

Signature of Engineer

Name (*Please type*)

(FL, PR, or VI) Reg. Number

Company Name

City

State

ZIP

(Affix Seal)

Date

Telephone Number

Noise Best Management Practices (BMPs) for Piling Installation

The following best management practices are designed to reduce the exposure to sea turtles, smalltooth sawfish, and sturgeon to potential harmful daily noise exposure levels associated with pile driving during dock and seawall construction activities.

Noise BMP Plan A (For all projects): Sea Turtle, Smalltooth Sawfish, and Sturgeon Construction Conditions

The permittee shall comply with the following protected species construction conditions:

- a. All construction personnel are responsible for observing water-related activities to detect the presence of these species.
- b. The permittee shall advise all construction personnel that there are civil and criminal penalties for harming, harassing, or killing species protected under the Endangered Species Act of 1973.
- c. Siltation barriers shall be made of material in which protected species cannot become entangled, be properly secured, and be regularly monitored to avoid protected species' entrapment. Barriers may not block protected species entry to or exit from designated critical habitat without prior agreement from the National Marine Fisheries Service's Protected Resources Division, St. Petersburg, Florida.
- d. If a protected species is seen within 100 yd of the active daily construction/dredging operation or vessel movement, all appropriate precautions shall be implemented to ensure its protection. These precautions shall include cessation of operation of any moving equipment closer than 50 ft of a protected species. Operation of any mechanical construction equipment shall cease immediately if a protected species is seen within a 50-ft radius of the equipment. Activities may not resume until the protected species has departed the project area of its own volition.
- e. Any injury to a protected species shall be reported immediately to the National Marine Fisheries Service's Protected Resources Division (727-824-5312) and the local authorized sea turtle stranding/rescue organization.
- f. All work must occur during daylight hours.

Noise BMP Plan B (for Impact Pile-Driving Installation of 6 or More Concrete Piles per Day)

The permittee shall follow all conditions defined in the Noise BMP Plan A above plus the conditions provided below:

1. It must be determined if the project occurs in open water or a confined space. This differentiation is important because if a project occurs in a confined space, an animal may not move through or past a noise source to escape it. A *confined space* is defined as any area that has a solid object (e.g., shoreline, seawall, jetty) or structure within 150 feet (ft) of the pile installation site that would effectively serve as a barrier or otherwise prevent animals from moving past it to exit the area. This does not include objects such as docks or other pile-supported structures that would not stop animal movement or significantly reflect noise.
2. If the project is located in open water, up to 10 concrete piles measuring up to 24-in diameter may be installed per day.
3. If the project is located in a confined space, up to 5 concrete piles measuring up to 24-in diameter may be installed per day.
4. If more than 5 piles will be installed per day in a confined space, noise abatement measures (below) are required for all of the concrete piles installed that day with a maximum of 10 piles installed per day.

Noise Abatement Measures: Approved noise abatement measures include noise attenuation piles (TNAP) and/or bubble curtains.

TNAP design must be constructed of a double-walled tubular casing (a casing within a larger casing), with at least a 5-in-wide hollow space completely filled with closed-cell foam or other noise dampening material between the walls. The TNAP must be long enough to be seated firmly on the sea bottom, fit over the pile being driven, and extend at least 3 ft above the surface of the water.

Bubble curtain design must adhere to the guidelines for unconfined and confined bubble curtains defined below, and be followed as detailed in the USACE permit application. The use of *any* other alternative noise control method must receive prior approval by NMFS and the USACE.

If the required noise abatement measure discussed above cannot be used, then the pile must be installed by a different method using the appropriate noise BMPs defined in this document. (e.g., concrete piles may be installed by vibratory hammer instead, following BMP Plan A).

Bubble Curtain Specifications for Pile Driving

When using an impact hammer to drive or proof concrete piles, use one of the following sound attenuation methods:

1. If water velocity is equal to or less than 1.6 ft per second (1.1 miles per hour) for the entire installation period, surround the pile being driven by a confined or

unconfined bubble curtain that will distribute small air bubbles around 100% of the pile perimeter for the full depth of the water column.

- a. General - An unconfined bubble curtain is composed of an air compressor(s), supply lines to deliver the air, distribution manifolds or headers, perforated aeration pipe, and a frame. The frame facilitates transport and placement of the system, keeps the aeration pipes stable, and provides ballast to counteract the buoyancy of the aeration pipes in operation.
- b. The aeration pipe system shall consist of multiple layers of perforated pipe rings, stacked vertically in accordance with the following:

Water Depth (m)	No. of Layers
0 to less than 5	2
5 to less than 10	4
10 to less than 15	7
15 to less than 20	10
20 to less than 25	13

- c. The pipes in all layers shall be arranged in a geometric pattern which shall allow for the pile being driven to be completely enclosed by bubbles for the full depth of the water column and with a radial dimension such that the rings are no more than 0.5 m from the outside surface of the pile.
 - i. The lowest layer of perforated aeration pipe shall be designed to ensure contact with the substrate without burial and shall accommodate sloped conditions.
 - ii. Air holes shall be 1.6 millimeter (mm) (1/16-in) in diameter and shall be spaced approximately 20 mm (3/4 in) apart. Air holes with this size and spacing shall be placed in 4 adjacent rows along the pipe to provide uniform bubble flux.
 - iii. The system shall provide a bubble flux 3.0 m³ per minute per linear meter of pipe in each layer (32.91 ft³ per minute per lin ft of pipe in each layer). The total volume of air per layer is the product of the bubble flux and the circumference of the ring:

$$V_t = 3.0 \text{ m}^3/\text{min}/\text{m} * \text{Circumference of the aeration ring in m}$$
 or

$$V_t = 32.91 \text{ ft}^3/\text{min}/\text{ft} * \text{Circumference of the aeration ring in ft}$$
 - iv. Meters shall be provided as follows:

- Pressure meters shall be installed at all inlets to aeration pipelines and at points of lowest pressure in each branch of the aeration pipeline.

- Flow meters shall be installed in the main line at each compressor and at each branch of the aeration pipelines at each inlet. In applications where the feed line from the compressor is continuous from the compressor to the aeration pipe inlet, the flow meter at the compressor can be eliminated.

Flow meters shall be installed according to the manufacturer's recommendation based on either laminar flow or non-laminar flow.

2. If water velocity is greater than 1.6 ft per second (1.1 miles per hour) at any point during installation or if constructing a seawall, surround the pile or area being driven by a confined bubble curtain (e.g., a bubble ring surrounded by a fabric or non-metallic sleeve). The confined bubble curtain will distribute air bubbles around 100% of the pile perimeter for the full depth of the water column, according to specifications below.
 - a. General - A confined bubble curtain is composed of an air compressor(s), supply lines to deliver the air, distribution manifolds or headers, perforated aeration pipe(s), and a means of confining the bubbles.
 - b. The confinement shall extend from the substrate to a sufficient elevation above the maximum water level expected during pile installation such that when the air delivery system is adjusted properly, the bubble curtain does not act as a water pump (i.e., little or no water should be pumped out of the top of the confinement system).
 - c. The confinement shall contain resilient pile guides that prevent the pile and the confinement from coming into contact with each other and do not transmit vibrations to the confinement sleeve and into the water column (e.g., rubber spacers, air-filled cushions).
 - d. In-water less than 15 m deep, the system shall have a single aeration ring at the substrate level. In-waters greater than 15 m deep, the system shall have at least 2 rings: 1 at the substrate level and the other at mid-depth.
 - e. The lowest layer of perforated aeration pipe shall be designed to ensure contact with the substrate without sinking into the substrate and shall accommodate for sloped conditions.

- f. Air holes shall be 1.6 mm (1/16-in) in diameter and shall be spaced approximately 20 mm (3/4 in) apart. Air holes with this size and spacing shall be placed in 4 adjacent rows along the pipe to provide uniform bubble flux.
- g. The system shall provide a bubble flux of 2.0 m³ per minute per linear meter of pipe in each layer (21.53 ft³ per minute per lin ft of pipe in each layer). The total volume of air per layer is the product of the bubble flux and the circumference of the ring:

$$V_t = 2.0 \text{ m}^3/\text{min}/\text{m} * \text{Circumference of the aeration ring in m}$$

or

$$V_t = 21.53 \text{ ft}^3/\text{min}/\text{ft} * \text{Circumference of the aeration ring in ft}$$

- h. Flow meters shall be provided as follows:
Pressure meters shall be installed at all inlets to aeration pipelines and at points of lowest pressure in each branch of the aeration pipeline.
 - ii. Flow meters shall be installed in the main line at each compressor and at each branch of the aeration pipelines at each inlet. In applications where the feed line from the compressor is continuous from the compressor to the aeration pipe inlet, the flow meter at the compressor can be eliminated.
 - iii. Flow meters shall be installed according to the manufacturer's recommendation based on either laminar flow or non-laminar flow.

STANDARD MANATEE CONDITIONS FOR IN-WATER WORK

2011

The permittee shall comply with the following conditions intended to protect manatees from direct project effects:

- a. All personnel associated with the project shall be instructed about the presence of manatees and manatee speed zones, and the need to avoid collisions with and injury to manatees. The permittee shall advise all construction personnel that there are civil and criminal penalties for harming, harassing, or killing manatees which are protected under the Marine Mammal Protection Act, the Endangered Species Act, and the Florida Manatee Sanctuary Act.
- b. All vessels associated with the construction project shall operate at "Idle Speed/No Wake" at all times while in the immediate area and while in water where the draft of the vessel provides less than a four-foot clearance from the bottom. All vessels will follow routes of deep water whenever possible.
- c. Siltation or turbidity barriers shall be made of material in which manatees cannot become entangled, shall be properly secured, and shall be regularly monitored to avoid manatee entanglement or entrapment. Barriers must not impede manatee movement.
- d. All on-site project personnel are responsible for observing water-related activities for the presence of manatee(s). All in-water operations, including vessels, must be shutdown if a manatee(s) comes within 50 feet of the operation. Activities will not resume until the manatee(s) has moved beyond the 50-foot radius of the project operation, or until 30 minutes elapses if the manatee(s) has not reappeared within 50 feet of the operation. Animals must not be herded away or harassed into leaving.
- e. Any collision with or injury to a manatee shall be reported immediately to the Florida Fish and Wildlife Conservation Commission (FWC) Hotline at 1-888-404-3922. Collision and/or injury should also be reported to the U.S. Fish and Wildlife Service in Jacksonville (1-904-731-3336) for north Florida or Vero Beach (1-772-562-3909) for south Florida, and to FWC at ImperiledSpecies@myFWC.com
- f. Temporary signs concerning manatees shall be posted prior to and during all in-water project activities. All signs are to be removed by the permittee upon completion of the project. Temporary signs that have already been approved for this use by the FWC must be used. One sign which reads *Caution: Boaters* must be posted. A second sign measuring at least 8 ½" by 11" explaining the requirements for "Idle Speed/No Wake" and the shut down of in-water operations must be posted in a location prominently visible to all personnel engaged in water-related activities. These signs can be viewed at MyFWC.com/manatee. Questions concerning these signs can be sent to the email address listed above.

CAUTION: MANATEE HABITAT

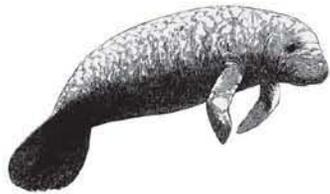
All project vessels

IDLE SPEED / NO WAKE

When a manatee is within 50 feet of work
all in-water activities must

SHUT DOWN

Report any collision with or injury to a manatee:



Wildlife Alert:

1-888-404-FWCC(3922)

cell *FWC or #FWC



UNITED STATES DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
NATIONAL MARINE FISHERIES SERVICE
Southeast Regional Office
263 13th Avenue South
St. Petersburg, FL 33701

SEA TURTLE AND SMALLTOOTH SAWFISH CONSTRUCTION CONDITIONS

The permittee shall comply with the following protected species construction conditions:

- a. The permittee shall instruct all personnel associated with the project of the potential presence of these species and the need to avoid collisions with sea turtles and smalltooth sawfish. All construction personnel are responsible for observing water-related activities for the presence of these species.
- b. The permittee shall advise all construction personnel that there are civil and criminal penalties for harming, harassing, or killing sea turtles or smalltooth sawfish, which are protected under the Endangered Species Act of 1973.
- c. Siltation barriers shall be made of material in which a sea turtle or smalltooth sawfish cannot become entangled, be properly secured, and be regularly monitored to avoid protected species entrapment. Barriers may not block sea turtle or smalltooth sawfish entry to or exit from designated critical habitat without prior agreement from the National Marine Fisheries Service's Protected Resources Division, St. Petersburg, Florida.
- d. All vessels associated with the construction project shall operate at "no wake/idle" speeds at all times while in the construction area and while in water depths where the draft of the vessel provides less than a four-foot clearance from the bottom. All vessels will preferentially follow deep-water routes (e.g., marked channels) whenever possible.
- e. If a sea turtle or smalltooth sawfish is seen within 100 yards of the active daily construction/dredging operation or vessel movement, all appropriate precautions shall be implemented to ensure its protection. These precautions shall include cessation of operation of any moving equipment closer than 50 feet of a sea turtle or smalltooth sawfish. Operation of any mechanical construction equipment shall cease immediately if a sea turtle or smalltooth sawfish is seen within a 50-ft radius of the equipment. Activities may not resume until the protected species has departed the project area of its own volition.
- f. Any collision with and/or injury to a sea turtle or smalltooth sawfish shall be reported immediately to the National Marine Fisheries Service's Protected Resources Division (727-824-5312) and the local authorized sea turtle stranding/rescue organization.
- g. Any special construction conditions, required of your specific project, outside these general conditions, if applicable, will be addressed in the primary consultation.

Revised: March 23, 2006

O:\forms\Sea Turtle and Smalltooth Sawfish Construction Conditions.doc

