

**JOINT**  
**PUBLIC NOTICE**

**CHARLESTON DISTRICT, CORPS OF ENGINEERS**  
**69A Hagood Avenue**  
**Charleston, SC 29403-5107**  
**and**  
**THE S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL**  
**Office of Ocean and Coastal Resource Management**  
**1362 McMillan Avenue, Suite 400**  
**North Charleston, South Carolina 29405**

REGULATORY DIVISION  
Refer to: SAC-2019-00037

August 17, 2022

Pursuant to Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403), Sections 401 and 404 of the Clean Water Act (33 U.S.C. 1344), Section 14 of the Rivers and Harbors Act of 1899, 33 USC 408 (Section 408) and the South Carolina Coastal Zone Management Act (48-39-10 et.seq.), an application has been submitted to the Department of the Army and the S.C. Department of Health and Environmental Control by

**Mr. Rand Pratt**  
**Charleston Harbor Marina**  
**24 Patriots Point Road**  
**Mt Pleasant, South Carolina 29464**

for a permit to expand and modify the Charleston Harbor Marina in the

**Charleston Harbor**

located at the existing Charleston Harbor Marina at 24 Patriots Point Road in Mount Pleasant, Charleston County, South Carolina (Latitude: 32.7869 °, Longitude: -79.9093 °), Quad Sheet- Charleston.

In order to give all interested parties an opportunity to express their views

**NOTICE**

is hereby given that written statements regarding the proposed work will be received by the **Corps** until

**15 Days from the Date of this Notice,**

and **SCDHEC** will receive written statements regarding the proposed work until

**30 Days from the Date of this Notice**

from those interested in the activity and whose interests may be affected by the proposed work.

**NOTE: This public notice and associated plans are available on the Corps' website at: <http://www.sac.usace.army.mil/Missions/Regulatory/PublicNotices> .**

### **Applicant's Stated Purpose**

According to the applicant, the purpose of the proposed project is to expand and modify the existing marina to meet the growing need for transient and long-term slip/ berthing/ storage capacity, providing a higher level of service to existing and new patrons, and accommodate increased operational and staffing needs associated with the marina expansion.

### **Project Description**

The proposed work consists of expanding and modifying the existing marina. In detail, the applicant proposes to expand the marina to the southeast via a mix of fixed piers, floating docks, and floating wave attenuators (Docks, A, K, & L). The expansion would provide 68 new fixed boat lifts, 49 new wet slips and/or floating boat blocks/ lifts, and 489 linear feet of new side-tie dockage.

**Dock A Retrofit:** This will be accomplished by retrofitting the existing, southern most floating dock (Dock A) to provide additional wet slips and/ or dock blocks lifts within the newly created southern marina basin. Ten 5' x 45', two 5' x 40', and two 5' x 35 floating concrete finger piers may\* be installed to provide 29 dedicated wet slips along the southern side of the existing Dock A attenuator/ walkway.

*\*The Applicant may utilize floating boat blocks or floating boat lifts for all or portions of this dock depending upon specific market demands and clientele needs. Please note that this is in keeping with the most recent permit modification at the facility which allows for the use of boat blocks and/or lifts at the Applicant's discretion in lieu of dedicated wetslips.* A 16' x 150' portion of the floating concrete attenuator/ dock will be installed near the western end of the existing dock A to create a protected 100' entrance channel to the new southern marina basin. Berthing will not be allowed in the access channel.

**Fixed Access Pier:** A 10' x 325' fixed access pier will be constructed to provide access from the existing marina building to the southern basin. Four 4' x 28' finger piers will provide access to eight pile-supported boat lifts between dock trees.

**Dock K (Fixed Lift Pier):** A 10' x 536' long fixed pier will be constructed to provide access to sixty proposed pile supported fixed boat lifts. Eight 4' x 28' and twenty-two 4' x 26' finger piers will be constructed to provide access to the proposed boat lifts.

**Dock L (Floating Attenuator/ Docks):** A 16' x 1,245' floating wave attenuator will be installed along the southern and western perimeter of the newly created southern basin to provide tranquil berthing conditions and storm protection. Ten 10' x 66' floating concrete finger docks will be fixed to the interior of the perimeter attenuator/ walkway created 20 new wetslips for vessels up to 66' in length. 210 linear feet of side-tie dockage will be provided along the inside of the attenuator east of the proposed gangway. 279 linear feet of side tie dockage will be provided along the inside of the western attenuator section

oriented in the NW-SE direction. Dockage will not be allowed within the proposed 100' wide entrance channel to the new southern basin.

**Dock J Modification:** A new 10' x 163' floating dock will be connected to the existing Dock J to provide additional dockage and floating boat docks. Please note that this proposed dock is in the approximate location of a previously constructed dock which was removed around 2001. Dock blocks and/or floating boat lifts will be installed along the southern side of the new dock and provide storage for up to eight boats ~25' in length. 163' of side tide dockage will be provided along the northern side of the new dock. A minimum 50' wide clear opening/ fairway will be maintained between the new structures and the USS Clamagore submarine, which is permanently berthed within the northern marina basin as part of the Patriots Point Naval & Maritime Museum.

**Marina Support Building:** The applicant also proposes to construct a new marina support building to meet increased marina operational needs and staffing levels, improve safety and security at the facility, and provide a higher level of service to marina patrons. The structures will be located at the intersection of the existing northernmost fixed access pier and primary shore-parallel fixed access pier. A 72' x 72' fixed platform/ deck will be constructed to support the building and provide access to the marina docks/ slips. The proposed building has a 36' x 52' footprint and anticipated eave height of 32'. It will provide additional restrooms, laundry facilities, and a captain's lounge to be used by marina patrons as well as additional office and storage space.

*\*Please note that regulatory approval for this structure was obtained in 2003 and that the building size, layout, and support platform are identical to the previously approved structure.*

**Fish Cleaning Stations:** A canvas awning will be replaced on one of the existing fish cleaning stations near the existing marina building. Five new fish cleaning stations will be provided near the gangway access points for Docks A-F. Two new fish cleaning stations will be provided on the new portion of shore-parallel fixed access pier to serve the new southern marina expansion area.

### **Avoidance and Minimization**

The applicant has stated that the proposed project will avoid and/or minimize impacts to the aquatic environment by carefully siting the marina expansion so that no dredging is required. The proposed fixed boat lifts and floating boat blocks/ lifts will allow smaller vessels to be stored out of the water, reducing potential for fouling on the hulls and in turn decreasing the need for hull cleaning/ scraping activities. The retrofit of Dock J is sited in currently unused water space within the existing northern basin, reducing the need to further expand the marina's footprint. Additionally, the dock is located in the same general location/ arrangement as the previously existing dock. The amount of pile driving is minimized via the use of chain/ anchors for the concrete attenuators, which would otherwise likely require large pilings. Portions of the project that will require pile driving are primarily located closer to the shore and further from the main waterbody of the Charleston Harbor. Timber piles will be utilized wherever possible as opposed to concrete or steel piles to minimize noise impacts. Piles will be installed using vibratory hammer to reduce potential noise impacts.

### **Proposed Compensatory Mitigation**

The applicant has not proposed to mitigate for impacts to wetlands and/or waters of the United States as the majority of the impacts are shading over unconsolidated river bottom and there will be no impacts to saltmarsh.

### **South Carolina Department of Health and Environmental Control**

The District Engineer has concluded that the discharges associated with this project, both direct and indirect, should be reviewed by the South Carolina Department of Health and Environmental Control in accordance with provisions of Section 401 of the Clean Water Act. As such, this notice constitutes a request, on behalf of the applicant, for certification that this project will comply with applicable effluent limitations and water quality standards. The work shown on this application must also be certified as consistent with applicable provisions of the Coastal Zone Management Program (15 CFR 930). This activity may also require evaluation for compliance with the S. C. Construction in Navigable Waters Permit Program. State review, permitting and certification is conducted by the S. C. Department of Health and Environmental Control. The District Engineer will not process this application to a conclusion until such certifications are received. The applicant is hereby advised that supplemental information may be required by the State to facilitate the review. This Public Notice will serve as the notification to the Administrator of the Environmental Protection Agency (EPA) pursuant to section 401(a)(2) of the Clean Water Act.

### **Essential Fish Habitat**

This notice initiates the Essential Fish Habitat (EFH) consultation requirements of the Magnuson-Stevens Fishery Conservation and Management Act. Implementation of the proposed project would impact 2.48 acres of estuarine substrates utilized by various life stages of species comprising the shrimp, and snapper-grouper management complexes. The District Engineer's initial determination is that the proposed action would not have a substantial individual or cumulative adverse impact on EFH or fisheries managed by the South Atlantic Fishery Management Council and the National Marine Fisheries Service (NMFS). The District Engineer's final determination relative to project impacts and the need for mitigation measures is subject to review by and coordination with the NMFS.

### **Endangered Species**

Pursuant to the Section 7 of the Endangered Species Act of 1973 (as amended), the Corps has reviewed the project and based on the location of the project and available information, the following species may be present in the County(s) where the work will occur: Frosted flatwoods salamander, American wood stork, Bachman's warbler, Eastern black rail, piping plover, red-cockaded woodpecker, Rufa red knot, Atlantic sturgeon, shortnose sturgeon, finback whale, humpback whale, Northern long-eared bat, right whale, sei whale, sperm whale, West Indian manatee, American chaffseed, Canby's dropwort, pondberry, seabeach amaranth, green sea turtle, Kemp's Ridley sea turtle, leatherback

sea turtle, and loggerhead sea turtle.

Based on all information provided by the applicant and the most recently available information, the District Engineer has determined the following:

The project will have no effect on frosted flatwoods salamander, American wood stork, Bachman's warbler, American wood stork, Eastern black, Eastern black rail, piping plover, red-cockaded woodpecker, Rufa red knot, finback whale, humpback whale, right whale, sei whale, sperm whale, American chaffseed, Canby's dropwort, pondberry, seabeach amaranth, and will not result in the destruction or adverse modification of designated or proposed critical habitat.

The project is not likely to adversely affect the Atlantic sturgeon, shortnose sturgeon, West Indian manatee, green sea turtle, Kemp's Ridley sea turtle, and loggerhead sea turtle or result in the destruction or adverse modification of designated or proposed critical habitat. This public notice serves as a request for written concurrence from the U.S. Fish and Wildlife Service and/or the National Marine Fisheries Service on this determination.

This public notice serves as a request to the U.S. Fish and Wildlife Service and the National Marine Fisheries Service for any additional information they may have on whether any listed or proposed endangered or threatened species or designated or proposed critical habitat may be present in the area which would be affected by the activity.

### **Cultural Resources**

Pursuant to Section 106 of the National Historic Preservation Act (NHPA), this public notice also constitutes a request to Indian Tribes to notify the District Engineer of any historic properties of religious and cultural significance to them that may be affected by the proposed undertaking.

In accordance with Section 106 of the NHPA, the District Engineer has consulted South Carolina ArchSite (GIS), for the presence or absence of historic properties (as defined in 36 C.F.R. 800.16)(1)(1)), and has initially determined that historic properties, are present; moreover, these historic properties may be affected by the undertaking. This public notice serves to notify the State Historic Preservation Office that the Corps plans to initiate Section 106 consultation on these historic properties. Individuals or groups who would like to be consulting parties for the purposes of the NHPA should make such a request to the Corps in writing within 30 days of this public notice. To ensure that other historic properties that the District Engineer is not aware of are not overlooked, this public notice also serves as a request to the State Historic Preservation Office and other interested parties to provide any information they may have with regard to historic properties.

The District Engineer's final eligibility and effect determination will be based upon coordination with the SHPO and/or THPO, as appropriate and required and with full consideration given to the proposed undertaking's potential direct and indirect effects on

historic properties within the Corps-identified permit area.

### **Corps' Evaluation**

The decision whether to issue a permit will be based on an evaluation of the probable impact including cumulative impacts of the proposed activity on the public interest. The benefit which reasonably may be expected to accrue from the project must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the project will be considered including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, flood plain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production and, in general, the needs and welfare of the people. A permit will be granted unless the District Engineer determines that it would be contrary to the public interest. In cases of conflicting property rights, the Corps cannot undertake to adjudicate rival claims.

### **Solicitation of Public Comment**

The Corps is soliciting comments from the public; Federal, state, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this activity. Any comments received will be considered by the Corps to determine whether to issue, modify, condition or deny a permit for this project. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the activity. Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for a public hearing shall state, with particularity, the reasons for holding a public hearing.

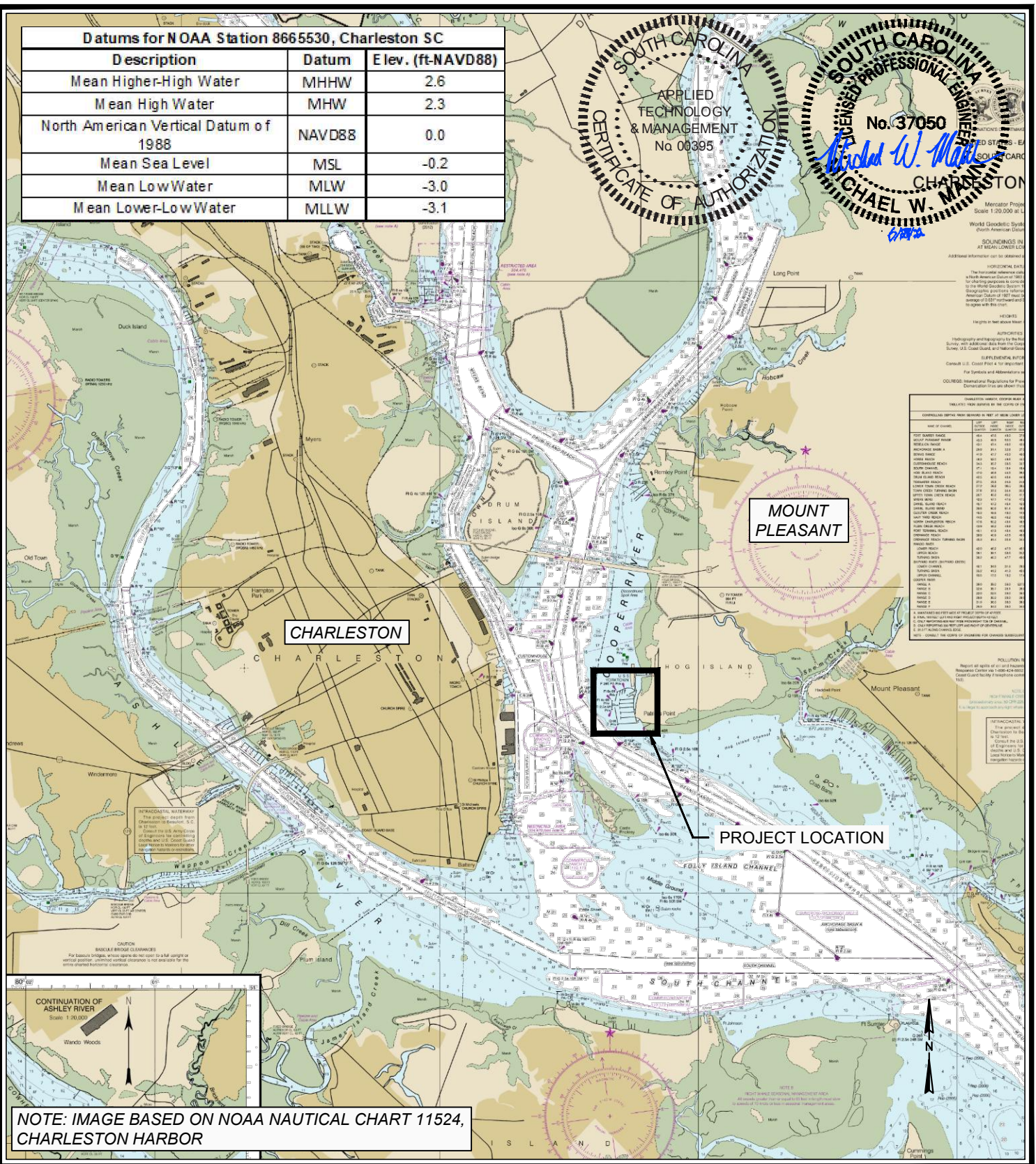
**Please submit comments in writing, identifying the project of interest by public notice/file number (SAC-2019-00037), to [Chelsea.B.Fannin@usace.army.mil](mailto:Chelsea.B.Fannin@usace.army.mil) or the following address:**


**U.S. Army Corps of Engineers  
ATTN: REGULATORY DIVISION  
69A Hagood Avenue  
Charleston, SC 29403-5107**

If there are any questions concerning this public notice, please contact Chelsea B. Fannin, Project Manager, at (843) 329-8038, or by email at [Chelsea.B.Fannin@usace.army.mil](mailto:Chelsea.B.Fannin@usace.army.mil).

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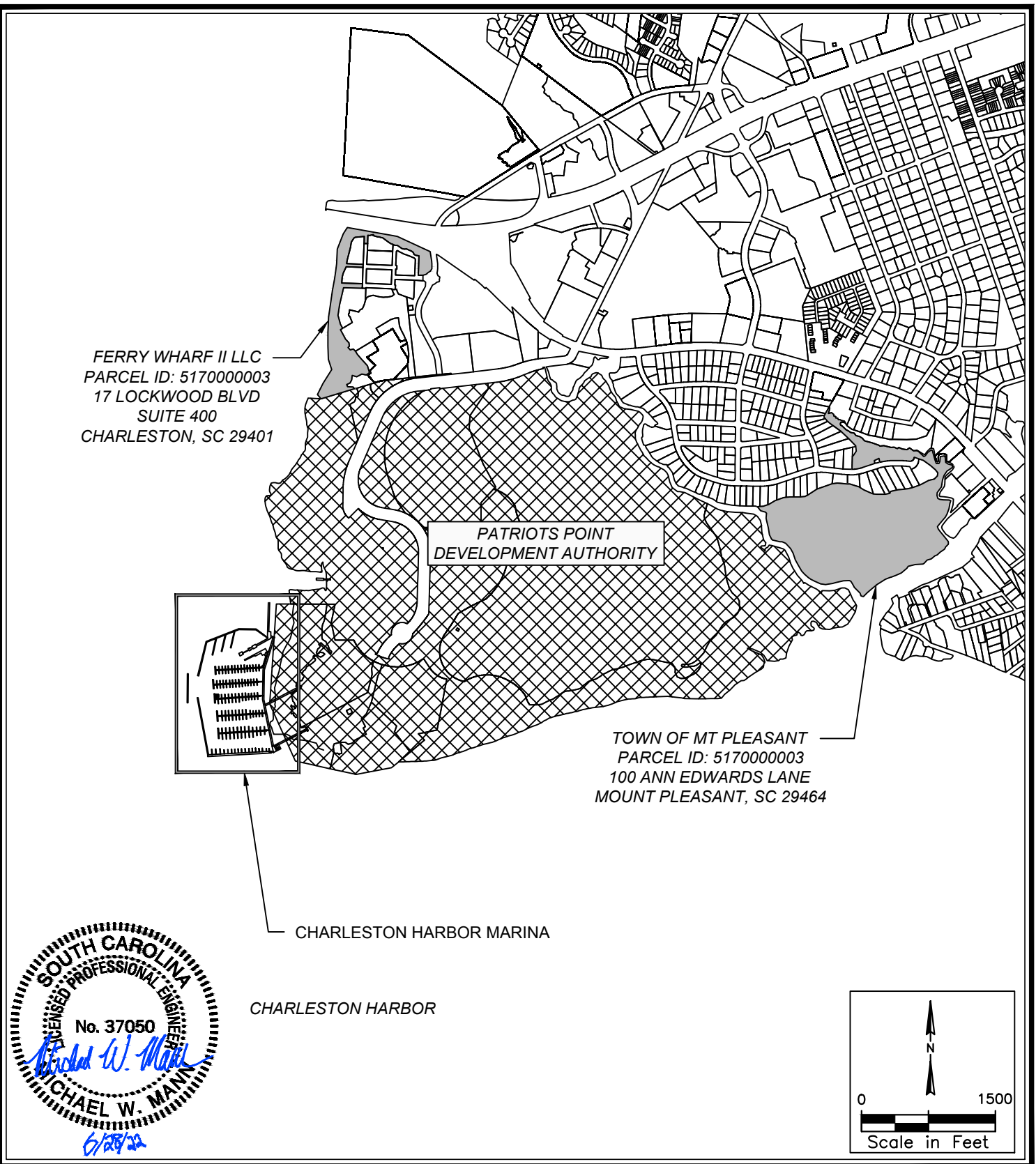
C:\Projects\19-3383 Charleston Harbor Marina DWG\Marina expansion\_Permit\_rev02.dwg, 01 6/28/22  
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|                   |  |   |  |
|-------------------|--|---|--|
| <b>PROJECT:</b>   | Charleston Harbor Resort & Marina Improvements | <b>LOCATION MAP</b>                                     | <br>A Geosyntec Company<br>28-June-2022<br>SHEET 01 |
| <b>WATERBODY:</b> | Cooper River/Charleston Harbor                 | Requested by: Charleston Harbor Holding Company         |  |
| <b>COUNTY:</b>    | Charleston                                     | Project Address: 24 Patriots Point Road, Mount Pleasant |  |
| <b>STATE:</b>     | South Carolina                                 | Parcel ID: 517000002                                    |  |
| <b>LATITUDE:</b>  | 32 47 11.44N                                   |   |  |
| <b>LONGITUDE:</b> | 79 54 35.61W                                   |   |  |

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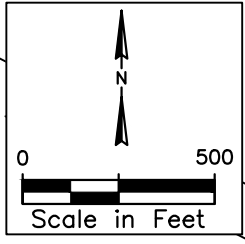
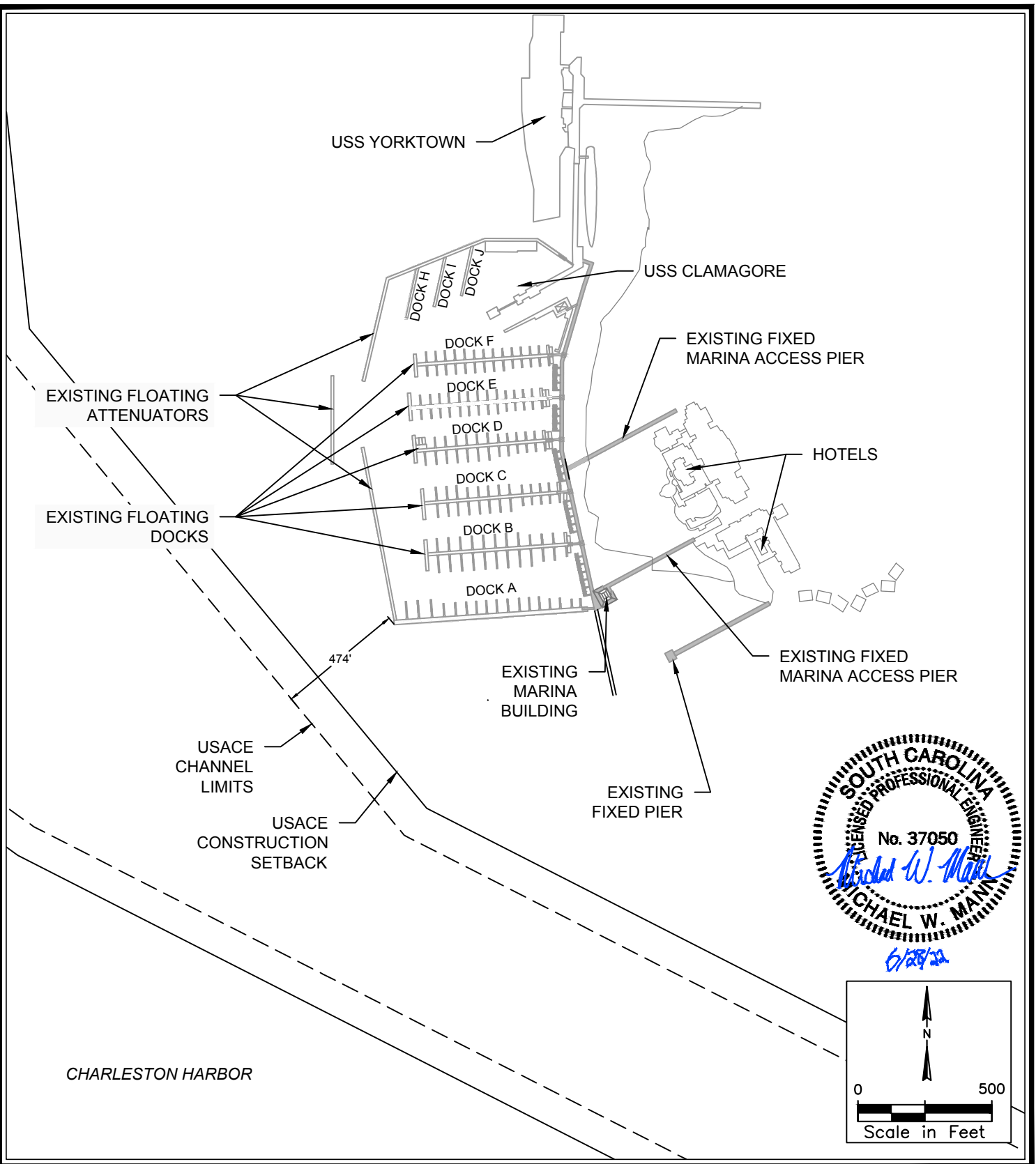



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|------------|--|---|--|--|
| PROJECT:   | Charleston Harbor Resort & Marina Improvements | ADJACENT PROPERTY OWNERS                                |  | <br>A Geosyntec Company<br>28-June-2022<br>SHEET 02 |
| WATERBODY: | Cooper River/Charleston Harbor                 | Requested by: Charleston Harbor Holding Company         |  |  |
| COUNTY:    | Charleston                                     | Project Address: 24 Patriots Point Road, Mount Pleasant |  |  |
| STATE:     | South Carolina                                 | Parcel ID: 5170000002                                   |  |  |
| LATITUDE:  | 32 47 11.44N                                   |   |  |  |
| LONGITUDE: | 79 54 35.61W                                   |   |  |  |



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|--|---|--|--|
| PROJECT: Charleston Harbor Resort & Marina Improvements<br>WATERBODY: Cooper River/Charleston Harbor<br>COUNTY: Charleston<br>STATE: South Carolina<br>LATITUDE: 32 47 11.44N<br>LONGITUDE: 79 54 35.61W | EXISTING CONDITIONS                                     |  | <br>A Geosyntec Company<br>28-June-2022<br>SHEET 03 |
|  | Requested by: Charleston Harbor Holding Company         |  |  |
|  | Project Address: 24 Patriots Point Road, Mount Pleasant |  |  |
|  | Parcel ID: 517000002                                    |  |  |

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PROPOSED FLOATING DOCK & DOCK BLOCKS

PROPOSED FISH CLEANING STATIONS

PROPOSED OVER WATER BUILDING (SEE SHEETS 16 & 17)

CHARLESTON HARBOR

EXISTING FLOATING DOCKS WITH DOCK BLOCKS AND/OR FLOATING BOAT LIFTS

PROPOSED FISH CLEANING STATIONS

EXISTING FIXED PIER

EXISTING MARINA BUILDING

EXISTING FLOATING WAVE ATTENUATOR DOCK

REPLACE AWNING ON EXISTING FISH CLEANING STATION

PROPOSED FIXED PIER

PROPOSED FLOATING WAVE ATTENUATOR DOCK

PROPOSED FISH CLEANING STATIONS

PROPOSED GANGWAY (80'x6')

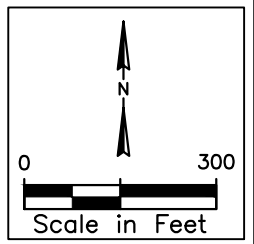
DOCK K

PROPOSED BOAT LIFTS

DOCK L

USACE CHANNEL LIMITS

USACE CONSTRUCTION SETBACK



| LEGEND |                                   |
|--------|-----------------------------------|
|        | PROPOSED FLOATING ATTENUATOR DOCK |
|        | PROPOSED FLOATING STANDARD DOCK   |
|        | PROPOSED FIXED PIER               |
|        | EXISTING FLOATING DOCK            |
|        | DOUBLE LOADED SLIP                |
|        | SINGLE LOADED SLIP                |

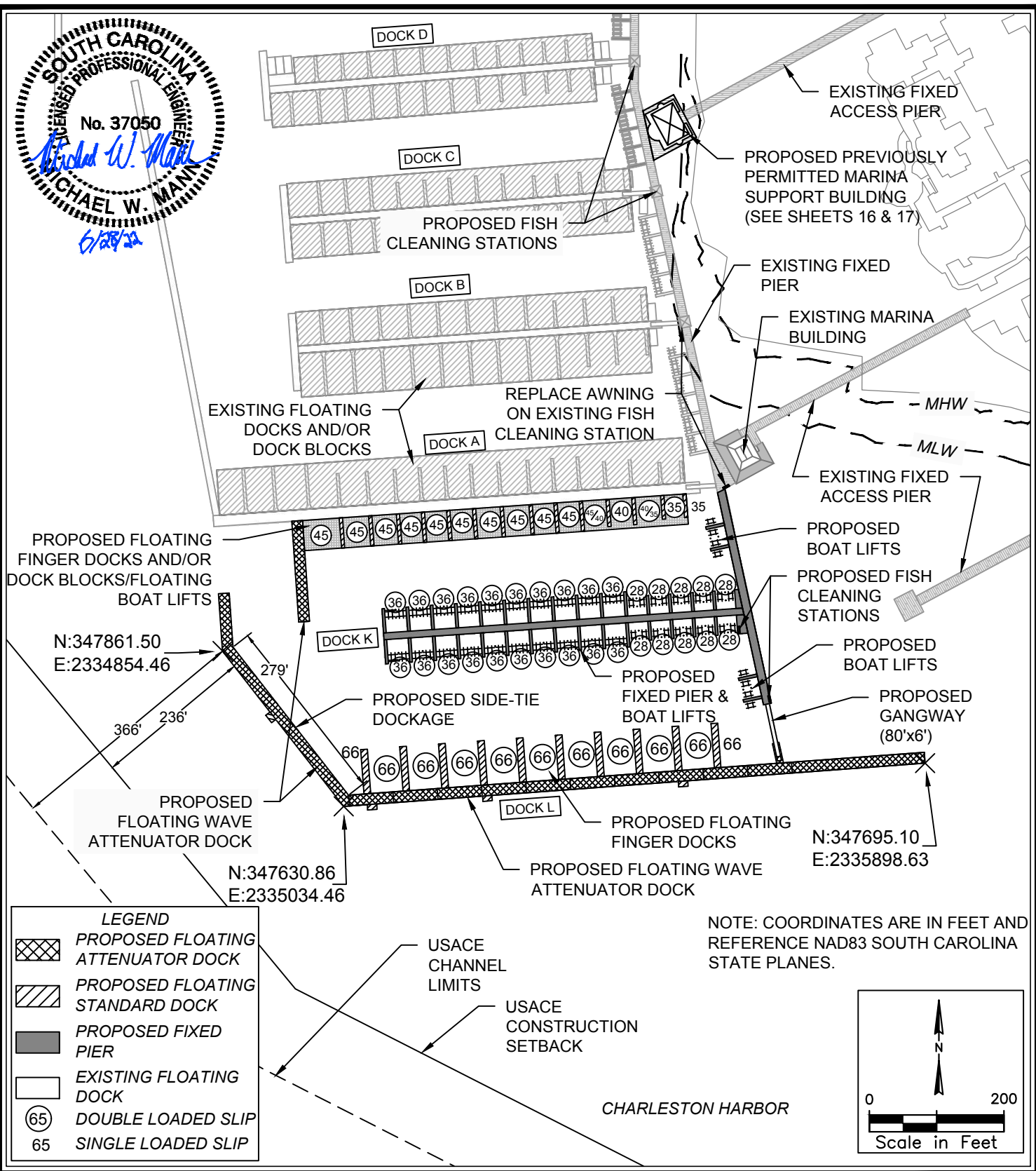
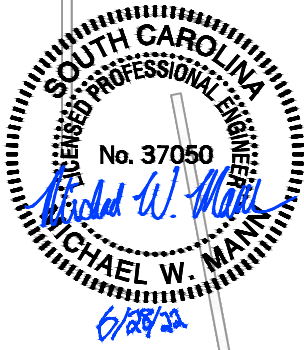
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|            |  |
|------------|--|
| PROJECT:   | Charleston Harbor Resort & Marina Improvements |
| WATERBODY: | Cooper River/Charleston Harbor                 |
| COUNTY:    | Charleston                                     |
| STATE:     | South Carolina                                 |
| LATITUDE:  | 32 47 11.44N                                   |
| LONGITUDE: | 79 54 35.61W                                   |

|   |  |
|---|--|
| PROPOSED MARINA IMPROVEMENTS OVERVIEW                   |  |
| Requested by: Charleston Harbor Holding Company         |  |
| Project Address: 24 Patriots Point Road, Mount Pleasant |  |
| Parcel ID: 517000002                                    |  |

28-June-2022  
 SHEET 04

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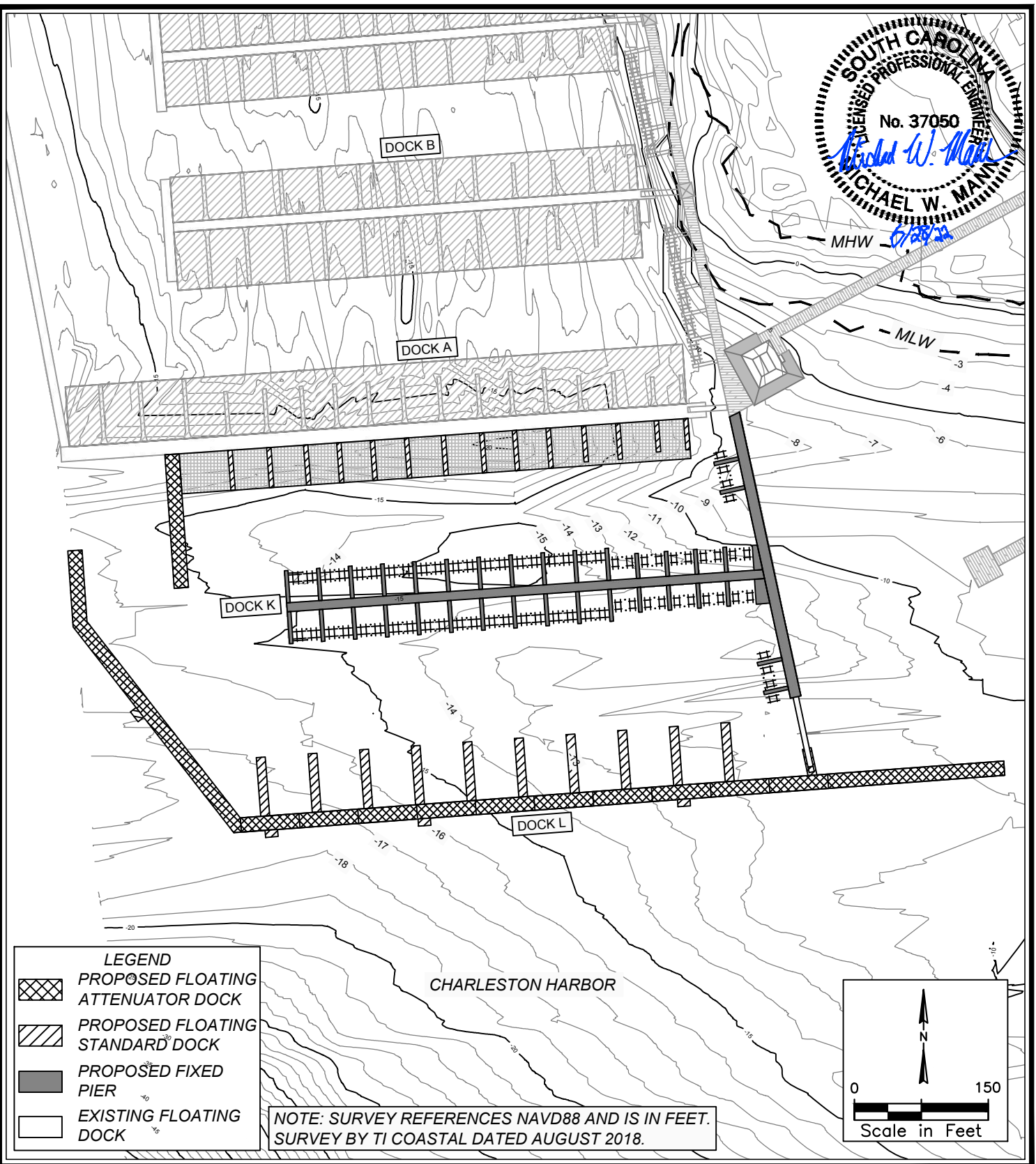
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| PROJECT:   | Charleston Harbor Resort & Marina Improvements |
| WATERBODY: | Cooper River/Charleston Harbor                 |
| COUNTY:    | Charleston                                     |
| STATE:     | South Carolina                                 |
| LATITUDE:  | 32 47 11.44N                                   |
| LONGITUDE: | 79 54 35.61W                                   |

| PROPOSED MARINA IMPROVMENTS |  |
|-----------------------------|--|
| Requested by:               | Charleston Harbor Holding Company      |
| Project Address:            | 24 Patriots Point Road, Mount Pleasant |
| Parcel ID:                  | 517000002                              |

28-June-2022  
 SHEET 05

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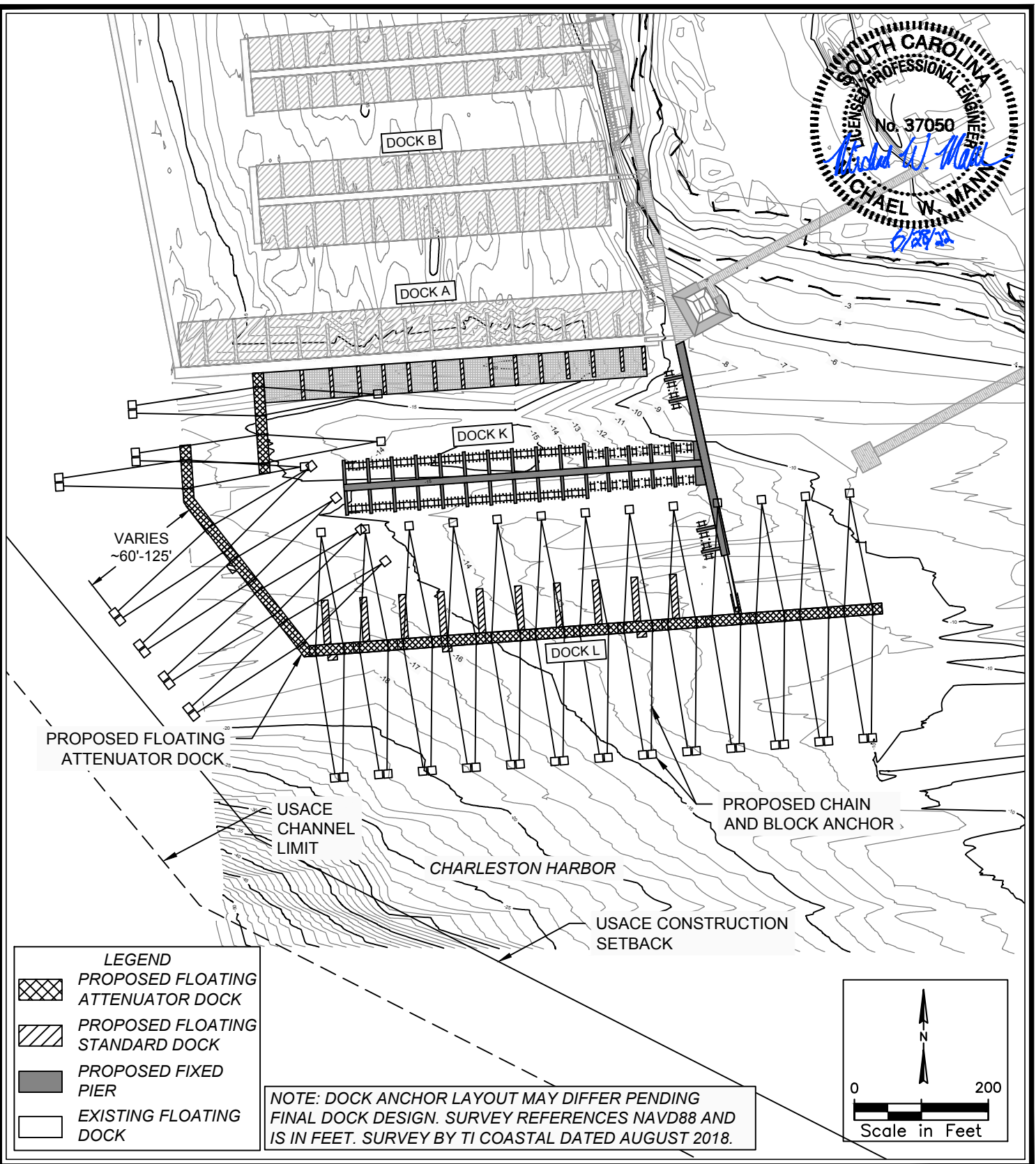


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| PROJECT:   | Charleston Harbor Resort & Marina Improvements |
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| STATE:     | South Carolina                                 |
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| LONGITUDE: | 79 54 35.61W                                   |

|   |
|---|
| MARINA EXPANSION ON BATHYMETRIC SURVEY                  |
| Requested by: Charleston Harbor Holding Company         |
| Project Address: 24 Patriots Point Road, Mount Pleasant |
| Parcel ID: 517000002                                    |

  
 A Geosyntec Company  
 28-June-2022  
 SHEET 06

FOR PERMITTING PURPOSES ONLY  
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VARIES  
 ~60'-125'

PROPOSED FLOATING  
 ATTENUATOR DOCK

USACE  
 CHANNEL  
 LIMIT

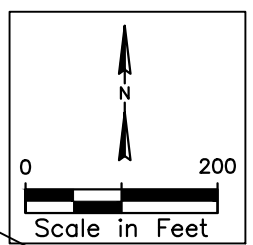
PROPOSED CHAIN  
 AND BLOCK ANCHOR

CHARLESTON HARBOR

USACE CONSTRUCTION  
 SETBACK

| LEGEND |                                   |
|--------|-----------------------------------|
|        | PROPOSED FLOATING ATTENUATOR DOCK |
|        | PROPOSED FLOATING STANDARD DOCK   |
|        | PROPOSED FIXED PIER               |
|        | EXISTING FLOATING DOCK            |

NOTE: DOCK ANCHOR LAYOUT MAY DIFFER PENDING FINAL DOCK DESIGN. SURVEY REFERENCES NAVD88 AND IS IN FEET. SURVEY BY TI COASTAL DATED AUGUST 2018.



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|   |  |
|---|--|
| PROPOSED DOCK ANCHOR LAYOUT                             |  |
| Requested by: Charleston Harbor Holding Company         |  |
| Project Address: 24 Patriots Point Road, Mount Pleasant |  |
| Parcel ID: 517000002                                    |  |

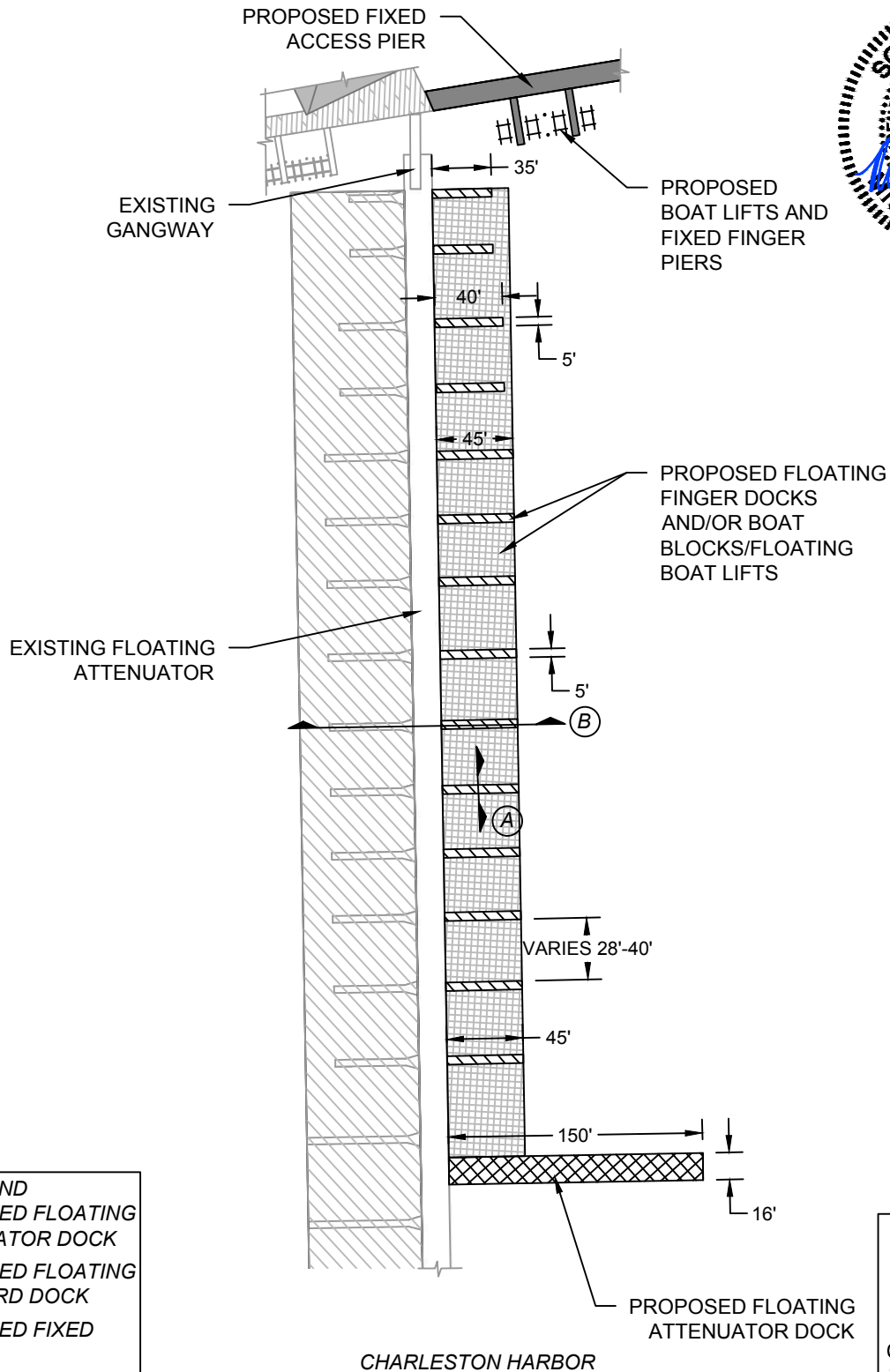
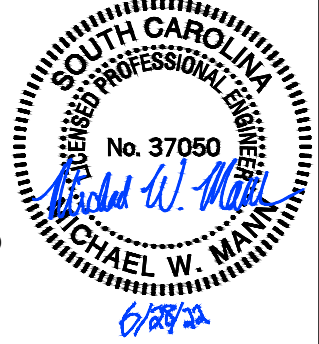


A Geosyntec Company

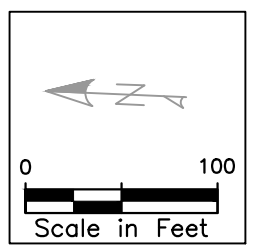
28-June-2022  
 SHEET 07

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| LEGEND |                                   |
|--------|-----------------------------------|
|        | PROPOSED FLOATING ATTENUATOR DOCK |
|        | PROPOSED FLOATING STANDARD DOCK   |
|        | PROPOSED FIXED PIER               |
|        | EXISTING FLOATING DOCK            |



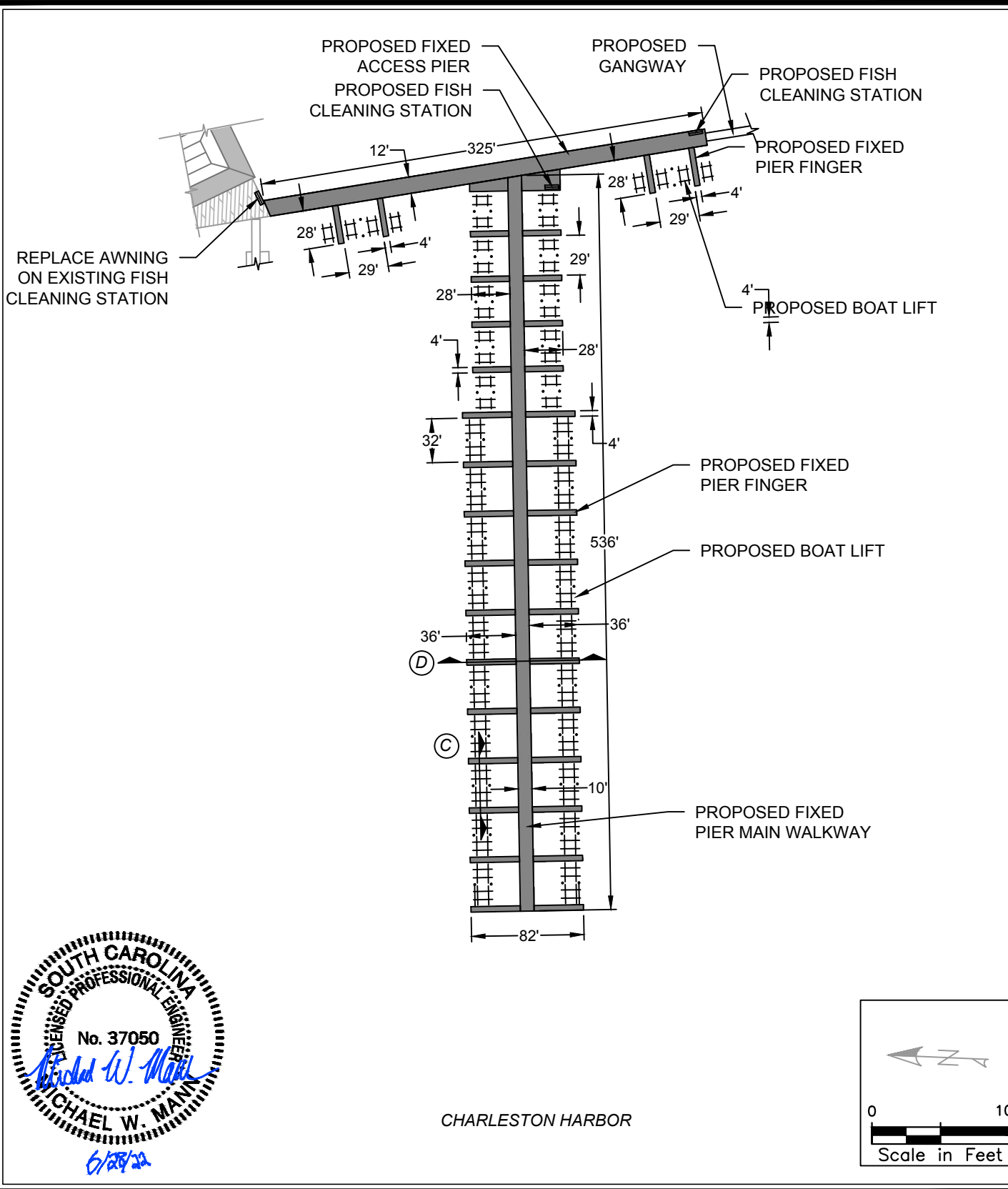
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| PROJECT:   | Charleston Harbor Resort & Marina Improvements |
| WATERBODY: | Cooper River/Charleston Harbor                 |
| COUNTY:    | Charleston                                     |
| STATE:     | South Carolina                                 |
| LATITUDE:  | 32 47 11.44N                                   |
| LONGITUDE: | 79 54 35.61W                                   |

| DOCK A DIMENSIONS |  |
|-------------------|--|
| Requested by:     | Charleston Harbor Holding Company      |
| Project Address:  | 24 Patriots Point Road, Mount Pleasant |
| Parcel ID:        | 517000002                              |

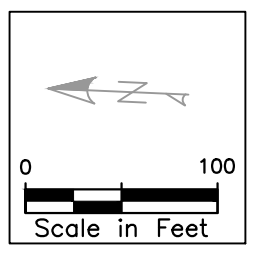
A Geosyntec Company  
 28-June-2022  
 SHEET 08


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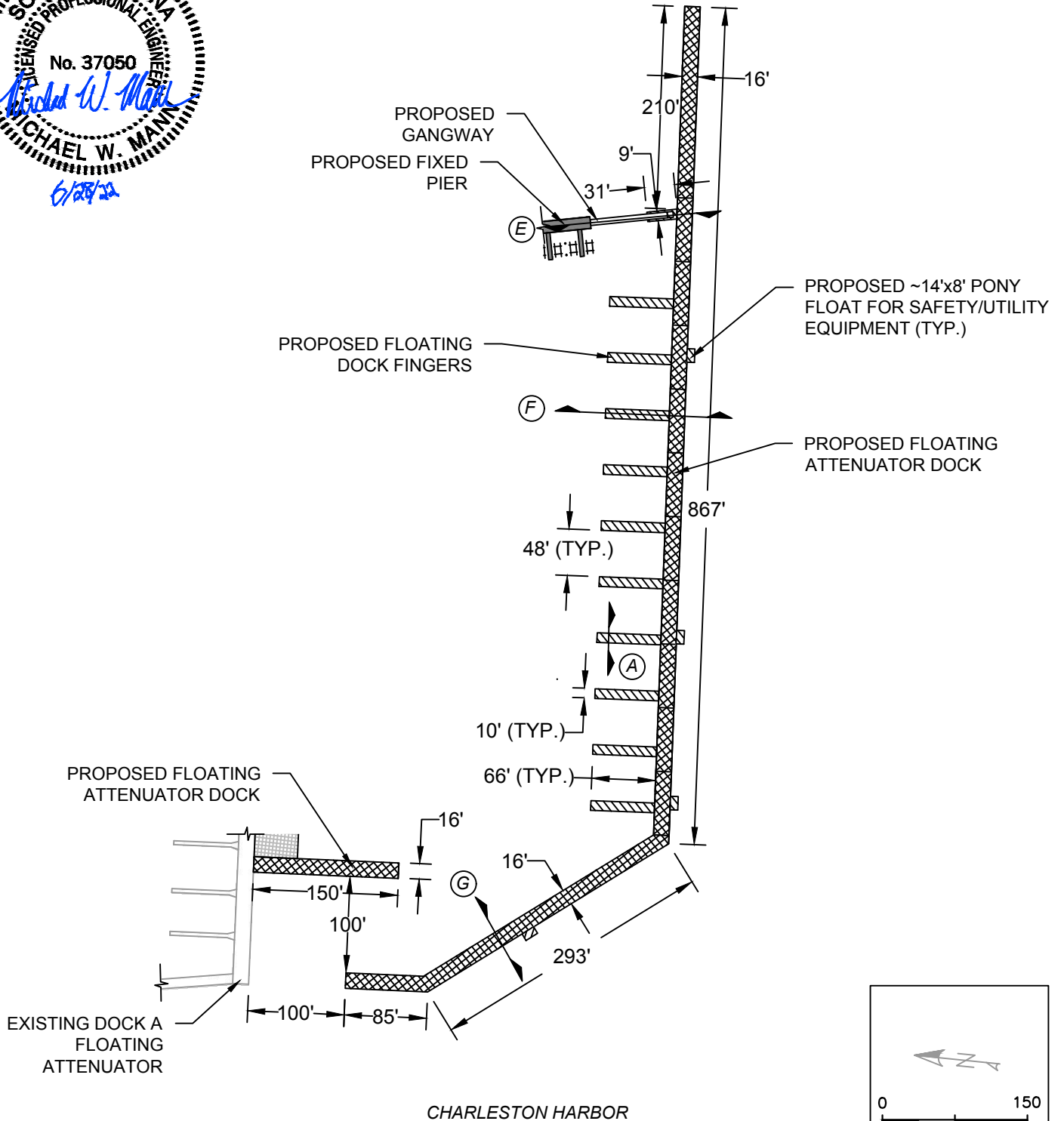


CHARLESTON HARBOR

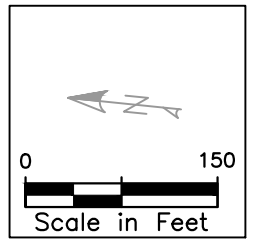


|  |   |  |  |
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| PROJECT: Charleston Harbor Resort & Marina Improvements<br>WATERBODY: Cooper River/Charleston Harbor<br>COUNTY: Charleston<br>STATE: South Carolina<br>LATITUDE: 32 47 11.44N<br>LONGITUDE: 79 54 35.61W | DOCK K DIMENSIONS                                       |  | <br>A Geosyntec Company<br>28-June-2022<br>SHEET 09 |
|  | Requested by: Charleston Harbor Holding Company         |  |  |
|  | Project Address: 24 Patriots Point Road, Mount Pleasant |  |  |
|  | Parcel ID: 517000002                                    |  |  |

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CHARLESTON HARBOR



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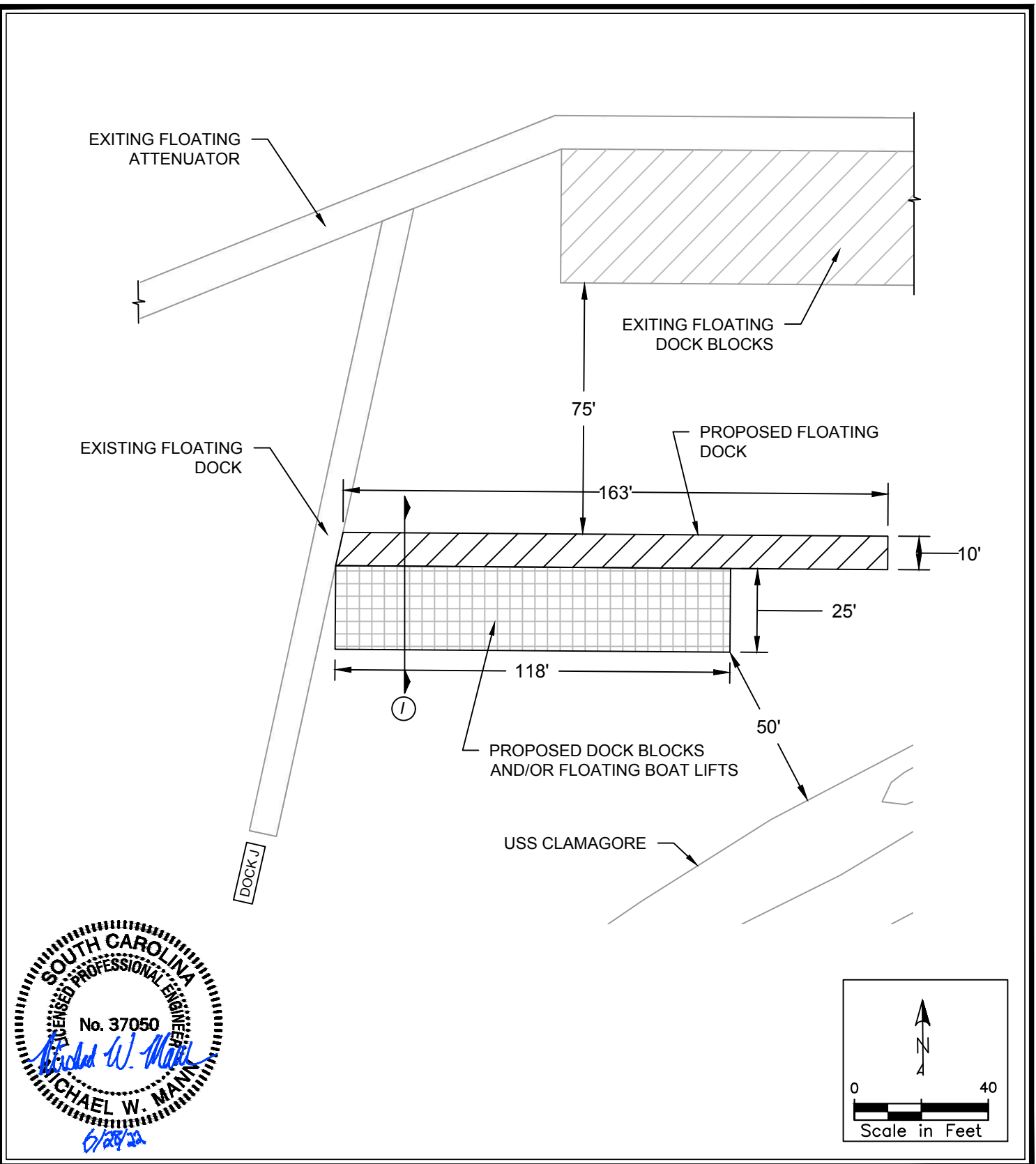
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|------------|--|---|--|
| PROJECT:   | Charleston Harbor Resort & Marina Improvements | DOCK L DIMENSIONS                                       |  |
| WATERBODY: | Cooper River/Charleston Harbor                 | Requested by: Charleston Harbor Holding Company         |  |
| COUNTY:    | Charleston                                     | Project Address: 24 Patriots Point Road, Mount Pleasant |  |
| STATE:     | South Carolina                                 | Parcel ID: 517000002                                    |  |
| LATITUDE:  | 32 47 11.44N                                   |   |  |
| LONGITUDE: | 79 54 35.61W                                   |   |  |

28-June-2022  
 SHEET 10



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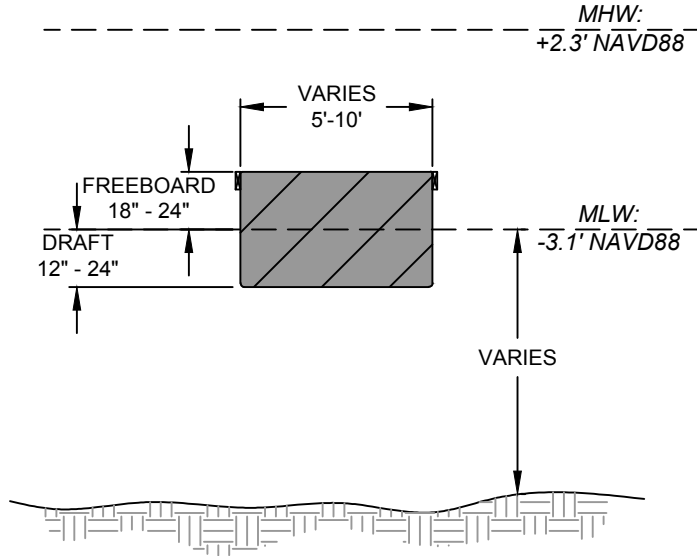
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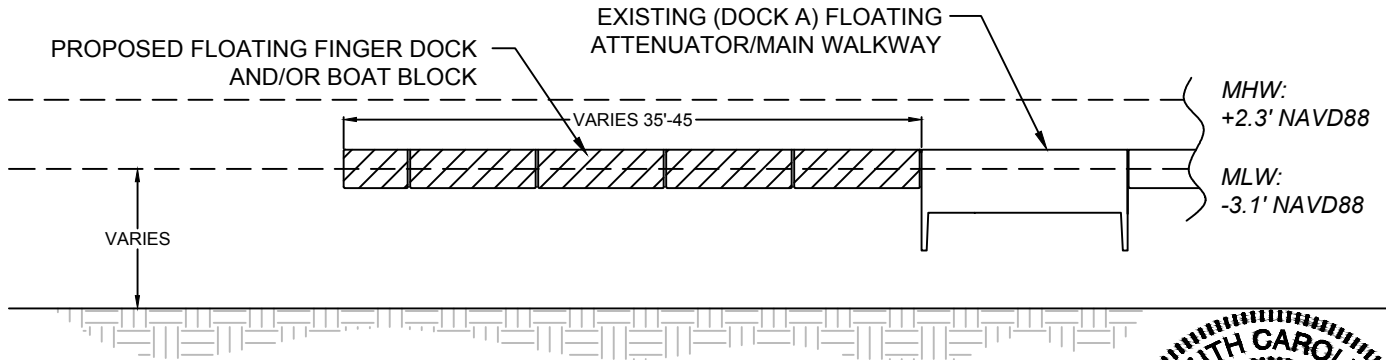
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| PROJECT:   | Charleston Harbor Resort & Marina Improvements |
| WATERBODY: | Cooper River/Charleston Harbor                 |
| COUNTY:    | Charleston                                     |
| STATE:     | South Carolina                                 |
| LATITUDE:  | 32 47 11.44N                                   |
| LONGITUDE: | 79 54 35.61W                                   |

| DOCK J DIMENSIONS |  |
|-------------------|--|
| Requested by:     | Charleston Harbor Holding Company      |
| Project Address:  | 24 Patriots Point Road, Mount Pleasant |
| Parcel ID:        | 517000002                              |

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**TYPICAL FLOATING FINGER DOCK SECTION** (A)  
 SCALE 1" = 5'



**TYPICAL FINGER PIER AT DOCK A** (B)  
 SCALE 1" = 15'



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|            |  |   |  |
|------------|--|---|--|
| PROJECT:   | Charleston Harbor Resort & Marina Improvements | TYPICAL DETAILS   |  |
| WATERBODY: | Cooper River/Charleston Harbor                 |   |  |
| COUNTY:    | Charleston                                     | Requested by: Charleston Harbor Holding Company         |  |
| STATE:     | South Carolina                                 | Project Address: 24 Patriots Point Road, Mount Pleasant |  |
| LATITUDE:  | 32 47 11.44N                                   | Parcel ID: 5170000002                                   |  |
| LONGITUDE: | 79 54 35.61W                                   |   |  |



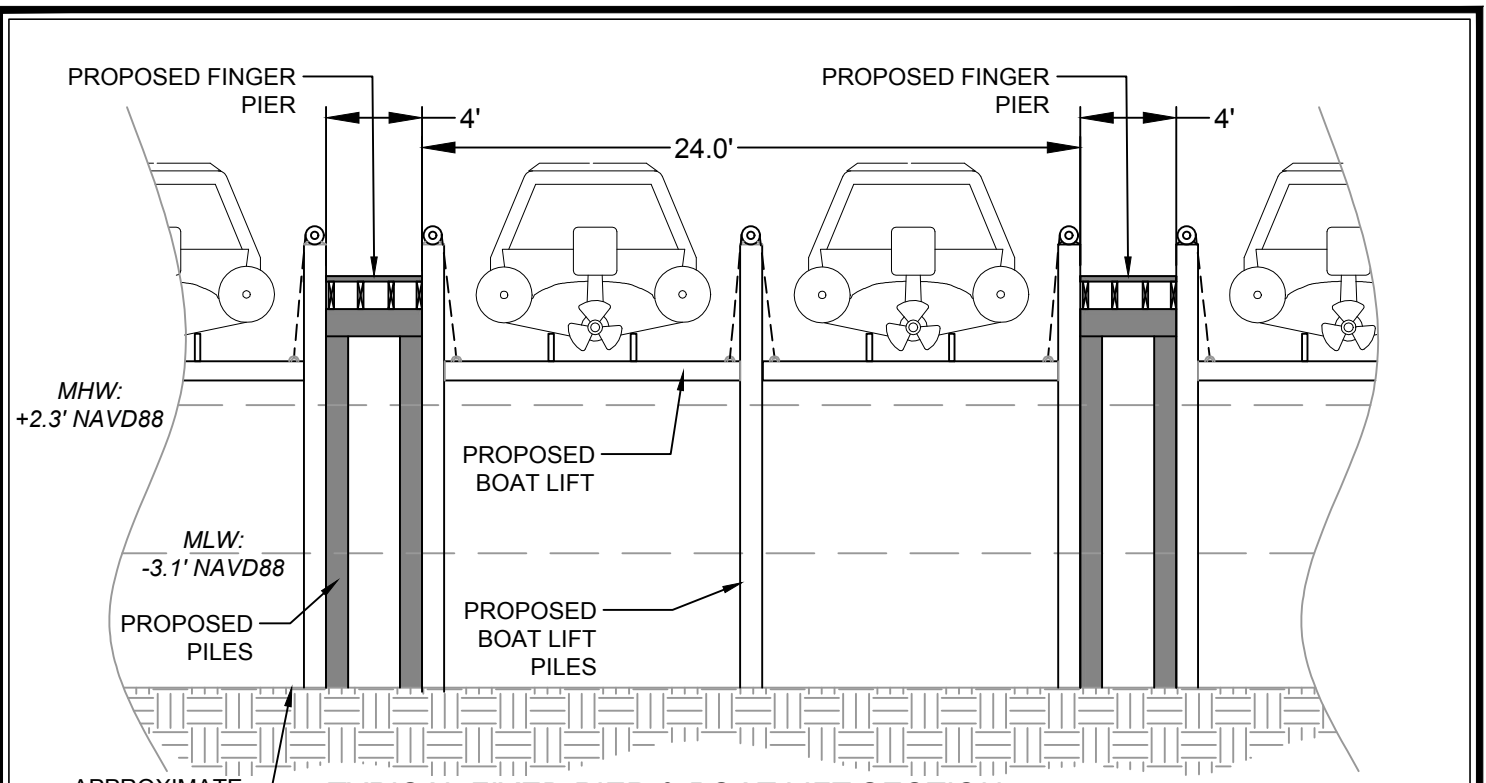
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28-June-2022

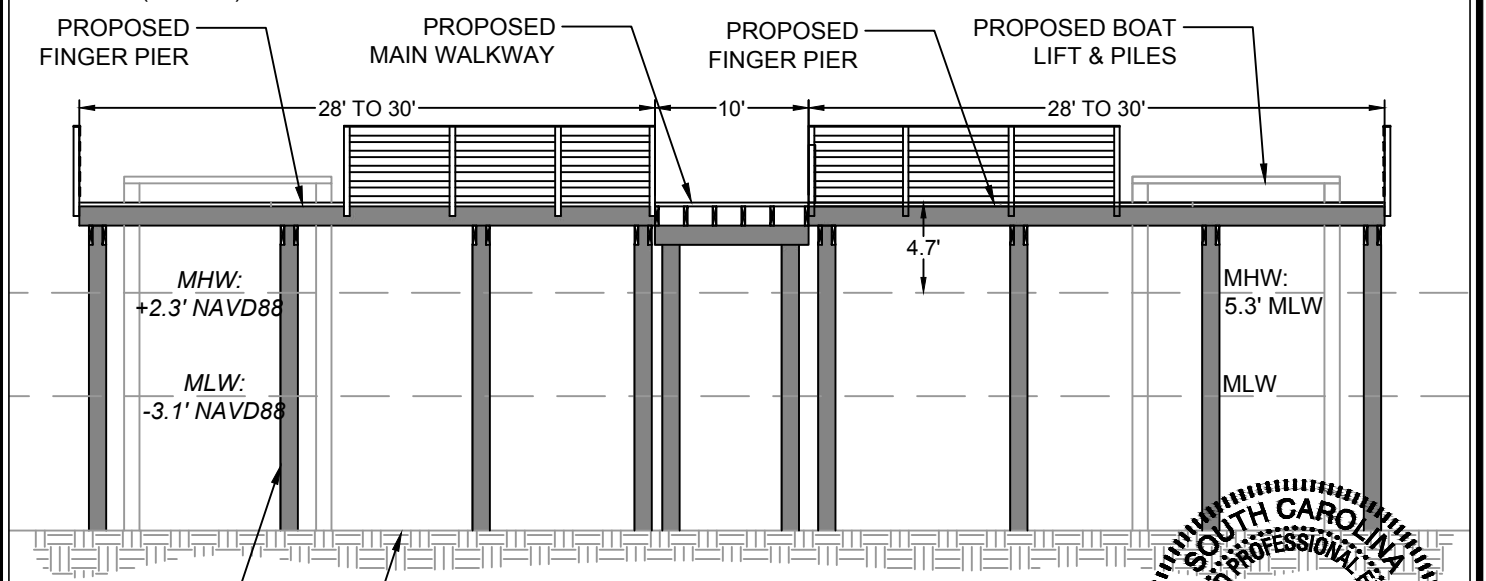
SHEET 12

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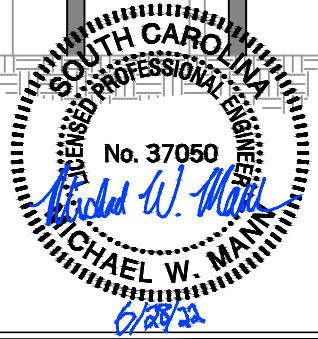
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**TYPICAL FIXED PIER & BOAT LIFT SECTION C**  
 SCALE: 1" = 6'



**TYPICAL FIXED PIER SECTION D**  
 SCALE: 1" = 10'



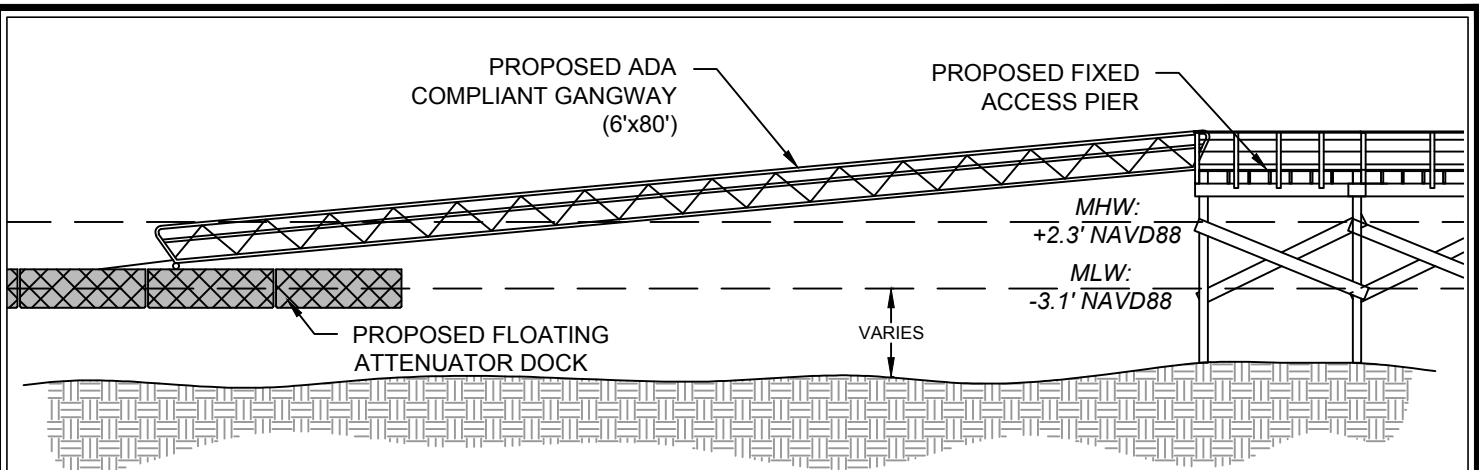
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| PROJECT:   | Charleston Harbor Resort & Marina Improvements |
| WATERBODY: | Cooper River/Charleston Harbor                 |
| COUNTY:    | Charleston                                     |
| STATE:     | South Carolina                                 |
| LATITUDE:  | 32 47 11.44N                                   |
| LONGITUDE: | 79 54 35.61W                                   |

|   |  |
|---|--|
| TYPICAL DETAILS   |  |
| Requested by: Charleston Harbor Holding Company         |  |
| Project Address: 24 Patriots Point Road, Mount Pleasant |  |
| Parcel ID: 517000002                                    |  |

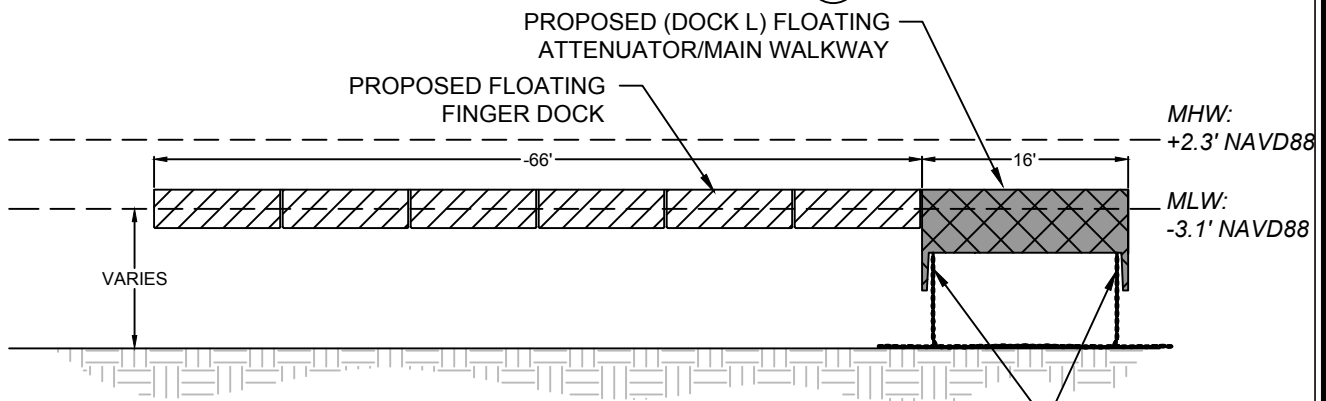
  
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 28-June-2022  
 SHEET 13

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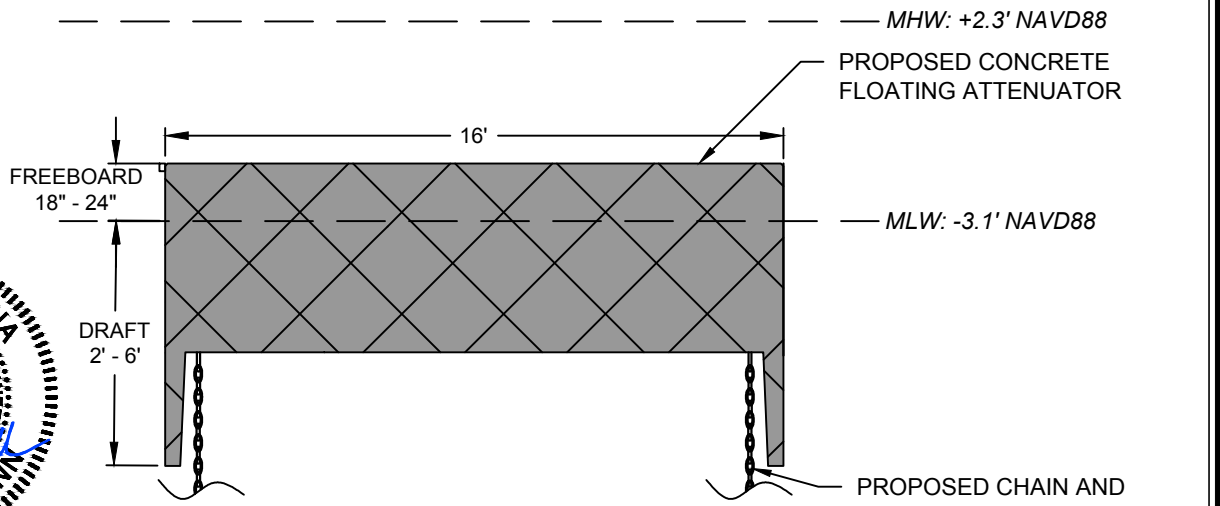
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**TYPICAL GANGWAY PROFILE E**  
 SCALE 1" = 15'



**TYPICAL WAVE ATTENUATOR & FINGER DOCK SECTION F**  
 SCALE 1" = 15'



**TYPICAL WAVE ATTENUATOR SECTION G**  
 SCALE 1" = 5'



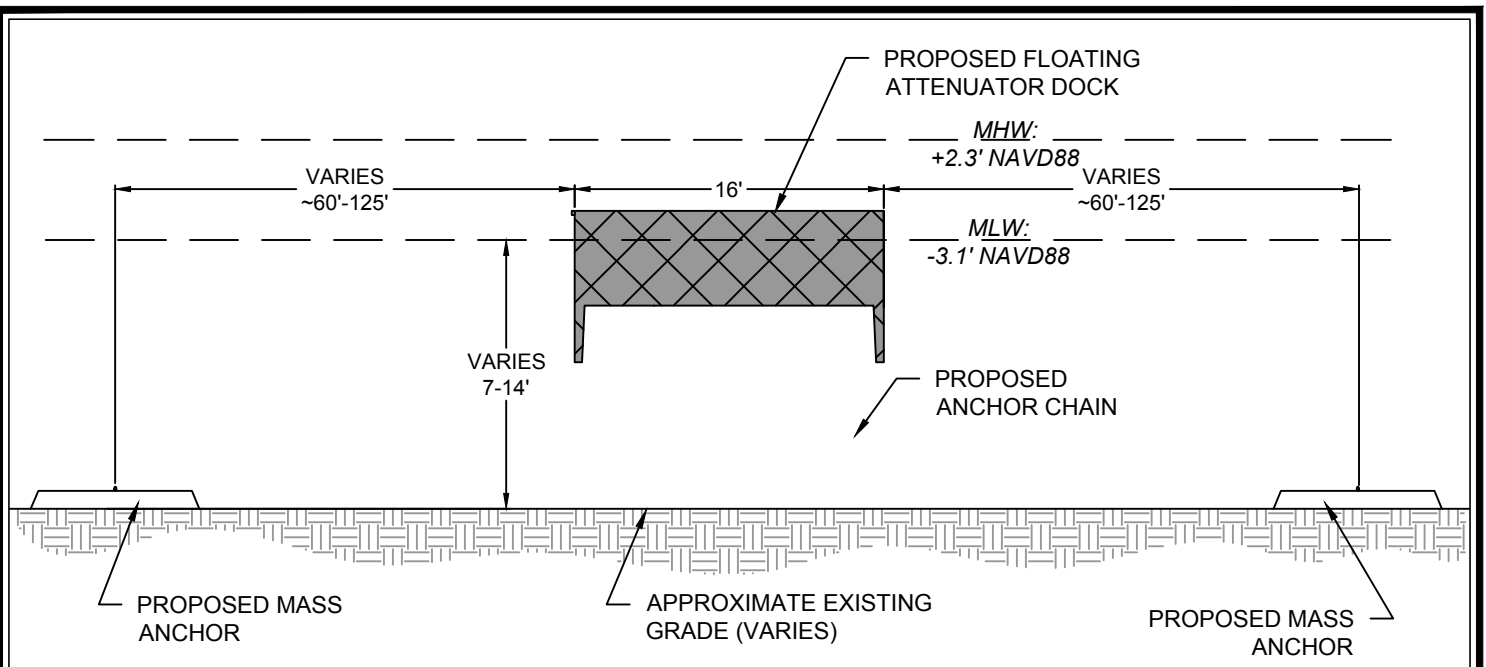
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| PROJECT:   | Charleston Harbor Resort & Marina Improvements |
| WATERBODY: | Cooper River/Charleston Harbor                 |
| COUNTY:    | Charleston                                     |
| STATE:     | South Carolina                                 |
| LATITUDE:  | 32 47 11.44N                                   |
| LONGITUDE: | 79 54 35.61W                                   |

| TYPICAL DETAILS  |  |
|------------------|--|
| Requested by:    | Charleston Harbor Holding Company      |
| Project Address: | 24 Patriots Point Road, Mount Pleasant |
| Parcel ID:       | 517000002                              |

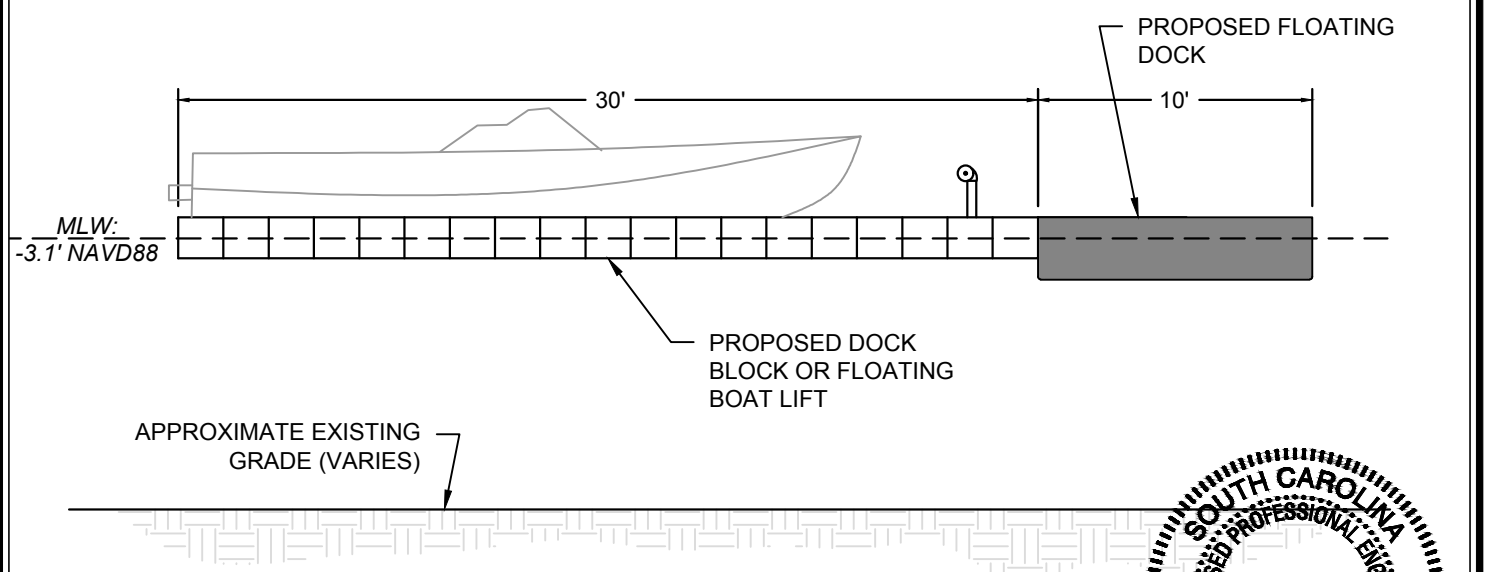
28-June-2022  
 SHEET 14

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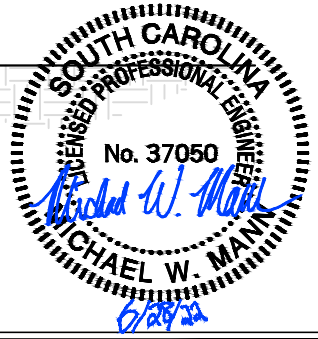
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**TYPICAL DOCK L FLOATING WAVE ATTENUATOR ANCHORING DETAIL** (H)  
 SCALE NTS



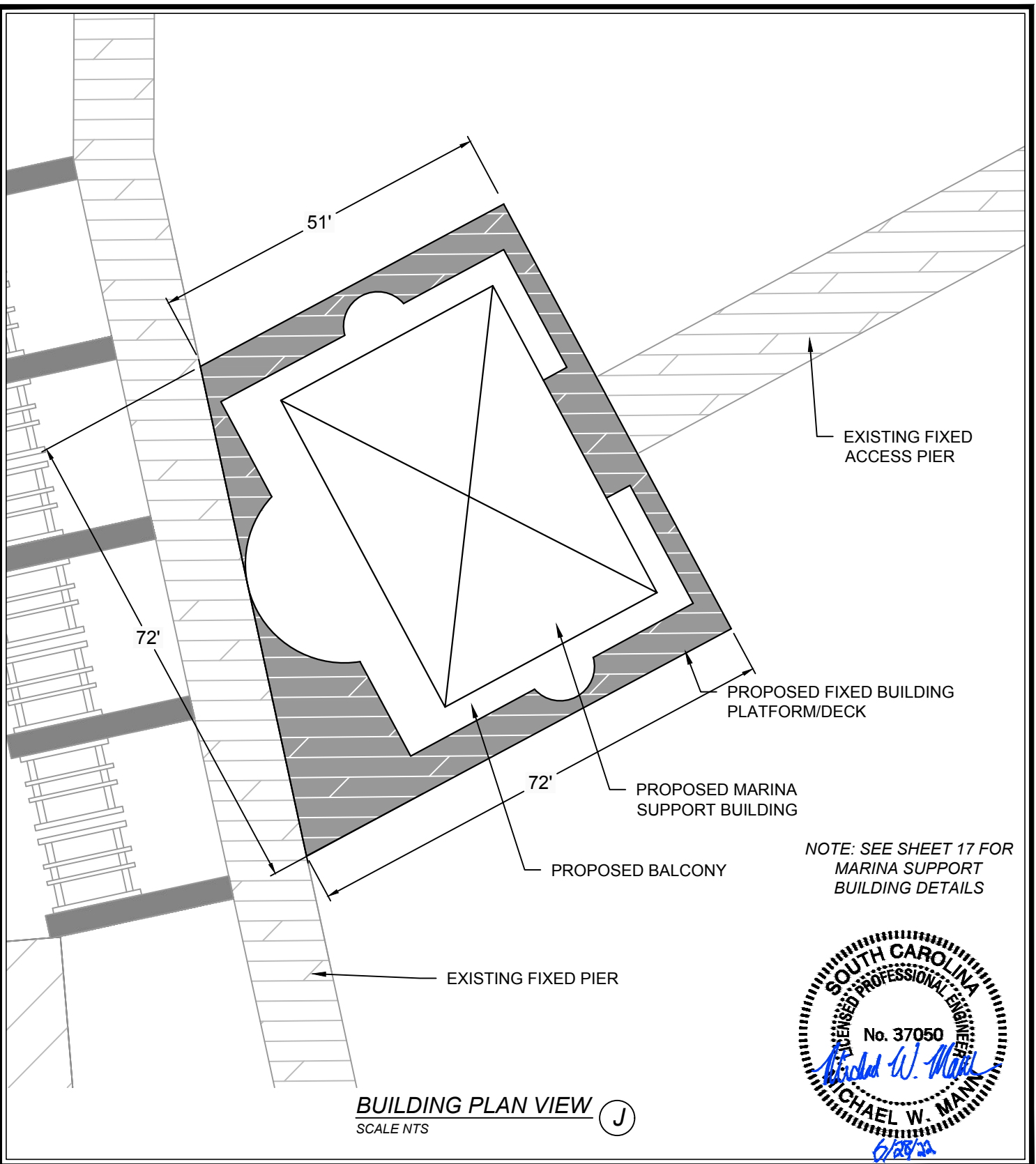
**TYPICAL DOCK J FLOATING DOCK AND DOCK BLOCK/FLOATING BOAT LIFT DETAIL** (I)  
 SCALE NTS



|  |   |  |  |
|--|---|--|--|
| <b>PROJECT:</b> Charleston Harbor Resort & Marina Improvements<br><b>WATERBODY:</b> Cooper River/Charleston Harbor<br><b>COUNTY:</b> Charleston<br><b>STATE:</b> South Carolina<br><b>LATITUDE:</b> 32 47 11.44N<br><b>LONGITUDE:</b> 79 54 35.61W | <b>TYPICAL DETAILS</b>                                  |  | <br>A Geosyntec Company<br>28-June-2022<br>SHEET 15 |
|  | Requested by: Charleston Harbor Holding Company         |  |  |
|  | Project Address: 24 Patriots Point Road, Mount Pleasant |  |  |
|  | Parcel ID: 517000002                                    |  |  |

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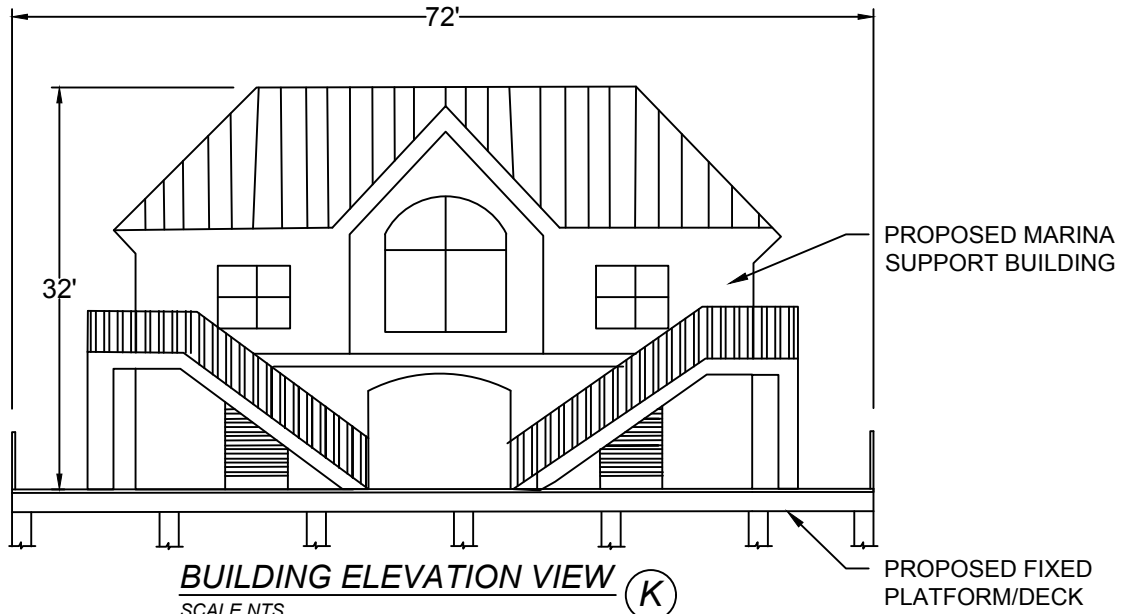
**BUILDING PLAN VIEW** (J)  
 SCALE NTS

NOTE: SEE SHEET 17 FOR MARINA SUPPORT BUILDING DETAILS

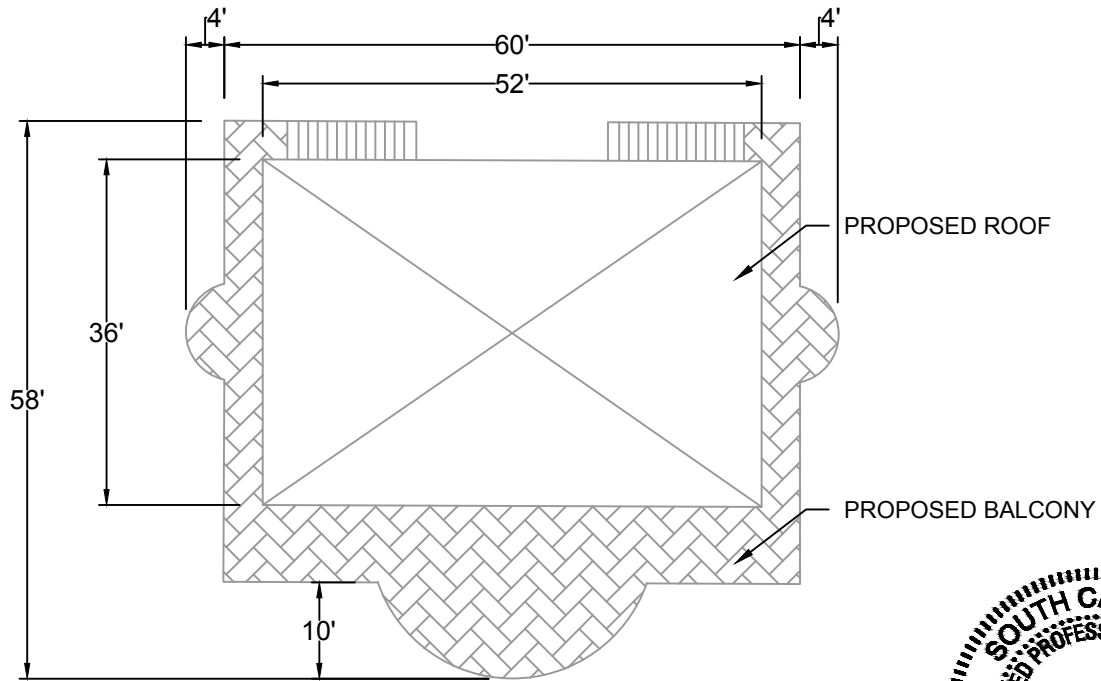


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| PROJECT: Charleston Harbor Resort & Marina Improvements<br>WATERBODY: Cooper River/Charleston Harbor<br>COUNTY: Charleston<br>STATE: South Carolina<br>LATITUDE: 32 47 11.44N<br>LONGITUDE: 79 54 35.61W | MARINA SUPPORT BUILDING PLATFORM                        |  | <br>A Geosyntec Company<br>28-June-2022<br>SHEET 16 |
|  | Requested by: Charleston Harbor Holding Company         |  |  |
|  | Project Address: 24 Patriots Point Road, Mount Pleasant |  |  |
|  | Parcel ID: 517000002                                    |  |  |

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**BUILDING ELEVATION VIEW** (K)  
 SCALE NTS



**BUILDING PLAN VIEW** (L)  
 SCALE NTS



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|  |   |  |  |
|--|---|--|--|
| <b>PROJECT:</b> Charleston Harbor Resort & Marina Improvements<br><b>WATERBODY:</b> Cooper River/Charleston Harbor<br><b>COUNTY:</b> Charleston<br><b>STATE:</b> South Carolina<br><b>LATITUDE:</b> 32 47 11.44N<br><b>LONGITUDE:</b> 79 54 35.61W | <b>TYPICAL BUILDING DETAILS</b>                         |  | <br>A Geosyntec Company<br>28-June-2022<br>SHEET 17 |
|  | Requested by: Charleston Harbor Holding Company         |  |  |
|  | Project Address: 24 Patriots Point Road, Mount Pleasant |  |  |
|  | Parcel ID: 5170000002                                   |  |  |