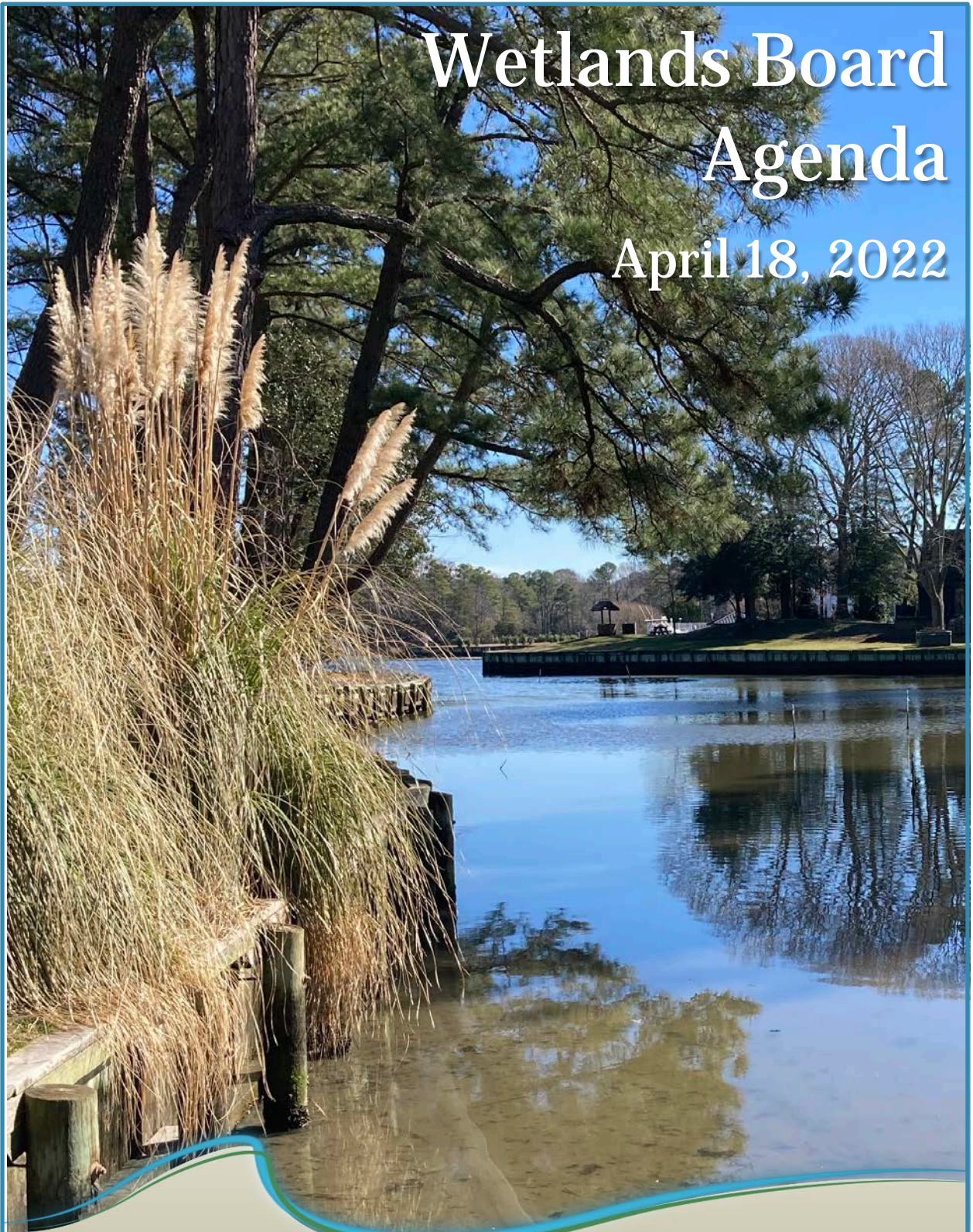


Wetlands Board Agenda

April 18, 2022



Wetlands Board Hearing Procedures

A Public Hearing of the Virginia Beach Wetlands Board will be held on **Monday, April 18, 2022 at 10:00 a.m. in the Council Chamber - 2403 Courthouse Drive, Building 3 (former City Hall), Virginia Beach, VA.** A Staff briefing session will be held at 9:00 a.m.. All interested parties are invited to attend.

Citizens are encouraged to submit comments to the Wetlands Board prior to the public hearing via email to waterfront@vbgov.com or via United States Mail to Waterfront Operations, 2875 Sabre Street, Suite 500, Virginia Beach, VA 23452.

Due to the ongoing COVID-19 pandemic, please review the Wetlands Board website at www.vbgov.com/wetlands for the most up to date information. If you are **physically disabled** or **visually impaired** and need assistance at this meeting, please call **The Department of Planning and Community Development at (757) 385-4621**

Copies of plans, ordinances and amendments are on file and may be examined by appointment in the Department of Planning at 2875 Sabre St, Suite 500 or online at www.vbgov.com/wetlands. For additional information call the Planning Department at 757-385-4621. Staff reports will be available on the webpage 5 days prior to the meeting.

PLEASE TURN YOUR CELL PHONE OFF OR TO VIBRATE DURING THE HEARING.

THE ADMINISTRATIVE COMMENTS CONTAINED IN THE ATTACHED AGENDA CONSTITUTE STAFF RECOMMENDATIONS FOR EACH APPLICATION AND ARE ADVISORY ONLY. FINAL DETERMINATION OF THE APPLICATION IS MADE BY THE VIRGINIA BEACH WETLANDS BOARD AT THE PUBLIC HEARING.

THE FOLLOWING DESCRIBES THE ORDER OF BUSINESS FOR THE PUBLIC HEARING

1. **WITHDRAWALS AND DEFERRALS:** The first order of business is the consideration of withdrawals or requests to defer an item. The Board will ask those in attendance at the hearing if there are any requests to withdraw or defer an item that is on the agenda. **PLEASE NOTE THE REQUESTS THAT ARE MADE, AS ONE OF THE ITEMS BEING WITHDRAWN OR DEFERRED MAY BE THE ITEM THAT YOU HAVE AN INTEREST IN.**
 - a. An applicant may **WITHDRAW** an application without the Boards's approval at any time prior to the commencement of the public hearing for that item. After the commencement of the hearing, however, the applicant must request that the Wetlands Board allow the item to be withdrawn.
 - b. In the case of **DEFERRALS**, the Board's policy is to defer the item **FOR AT LEAST 60 DAYS**. Although the Board allows an item to be deferred upon request of the applicant, the Board will ask those in attendance if there are any objections to the request for deferral. If you wish to oppose a deferral request, let the Board know when they ask if there is anyone in attendance who is opposed to the deferral. **PLEASE** confine your remarks to the deferral request and do not address the issues of the application – in other words, please let the Board know why deferring the application is unacceptable rather than discussing what your specific issue is with the application.
2. **REGULAR AGENDA:** The Board will then proceed with the remaining items on the agenda, according to the following process:

* Deferral

** Withdrawal

**Wetlands Board Agenda
April 18, 2022**

- a. The applicant or applicant's representative will have 10 minutes to present the case.
- b. Next, those who wish to speak in support to the application will have 3 minutes to present their case.
- c. If there is a spokesperson for the opposition, he or she will have 10 minutes to present their case.
- d. All other speakers not represented by the spokesperson in opposition will have 3 minutes.
- e. The applicant or applicant's representative will then have 3 minutes for rebuttal of any comments from the opposition.
- f. There is then discussion among the Board members. No further public comment will be heard at that point. The Board may, however, allow additional comments from speakers if a member of the Board sponsors them. Normally, you will be sponsored only if it appears that new information is available and the time will be limited to 3 minutes.
- g. The Board does not allow slide or computer-generated projections other than those prepared by the Planning Department Staff.
- h. The Board asks that speakers not be repetitive or redundant in their comments. Do not repeat something that someone else has already stated. Petitions may be presented and are encouraged. If you are part of a group, the Board requests, in the interest of time, that you use a spokesperson, and the spokesperson is encouraged to have his or her supporters stand to indicate their support.

The Staff reviews of some or all of the items on this agenda suggest that certain conditions be attached to approval by the Wetlands Board. However, it should not be assumed that those conditions constitute all the conditions that will ultimately be attached to the project. Staff agencies may impose further conditions and requirements during administration of applicable City ordinances.

* Deferral
** Withdrawal

9:00 A.M. – STAFF BRIEFING AND DISCUSSION

- STAFF BRIEFING – ANNUAL REPORT
- REVIEW OF PUBLIC HEARING AGENDA ITEMS

10:00 A.M. – PUBLIC HEARING

OLD BUSINESS – WETLANDS

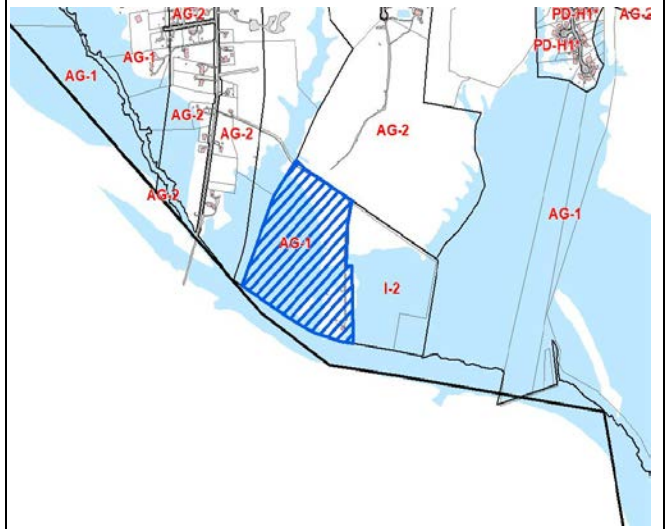
1. 2021-WTRA-00041
Sunoco LLC [Applicant & Owner]

REQUEST FOR 1 YEAR EXTENSION

To construct rip rap and a boat ramp involving wetlands

3924 North Landing Road
(GPIN 1482-79-7939)

Waterway – North Landing River
Subdivision – N/A
Council District: District 7, formerly Princess Anne



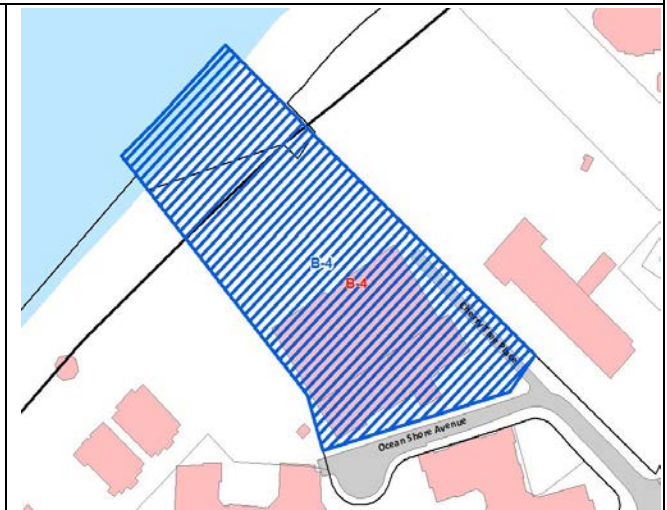
NEW BUSINESS – COASTAL PRIMARY SAND DUNE/BEACH

2. 2022-WTRA-00014
Harbor Gate Owners Associates, Inc. [Applicant & Owner]

To construct a bulkhead involving Coastal Primary Sand Dune/Beach

3300 Ocean Shore Ave
(GPIN 1489-89-1128)

Waterway – Chesapeake Bay
Subdivision – Harbor Gate Condominium
City Council District: District 5, formerly Lynnhaven



* Deferral
** Withdrawal

NEW BUSINESS - WETLANDS

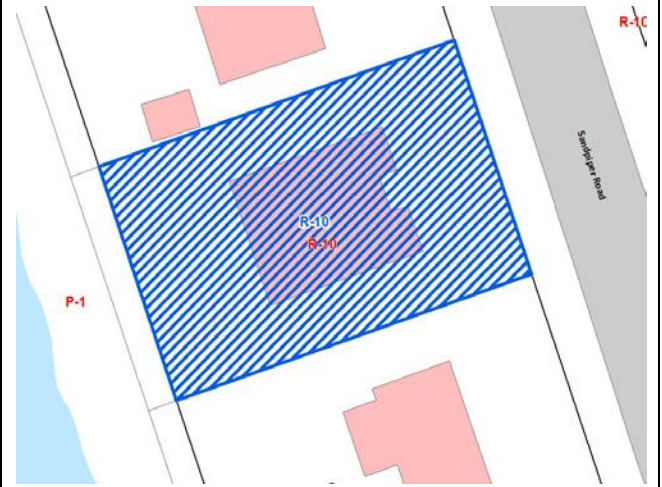
3. 2022-WTRA-00028

William F. & Mary E. Dingler
[Applicants & Owners]

To construct a bulkhead, dock, and floating dock involving wetlands

2789 Sandpiper Rd
(GPIN 2433-26-7911)

Waterway – Man-made canal to North Bay Subdivision – Sandbridge
City Council District: District 7, formerly Princess Anne



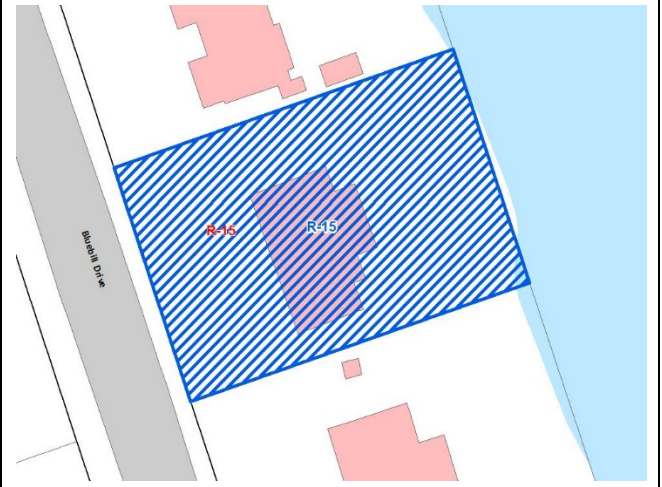
4. 2022-WTRA-00037

Charlotte Humenik Revocable Trust
[Applicant & Owner]

To construct a bulkhead and dock involving wetlands

2852 Bluebill Dr
(GPIN 2433-35-0169)

Waterway – Man-made canal to North Bay Subdivision – Sandbridge
City Council District: District 7, formerly Princess Anne



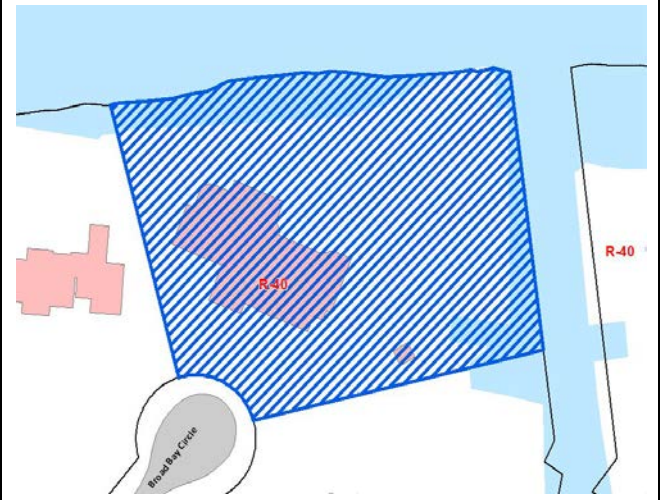
5. 2022-WTRA-00044

Broad Bay Canal Association;
Tassos & Dolores Paphites
[Applicants & Owners]

To construct a groin involving wetlands

1800 Broad Bay Circle
(GPIN 2409-53-2537)

Waterway – Broad Bay Subdivision – Baycliff Waterfront
City Council District: District 5, formerly Lynnhaven



* Deferral
** Withdrawal

NEW BUSINESS - WETLANDS (CONTINUED)

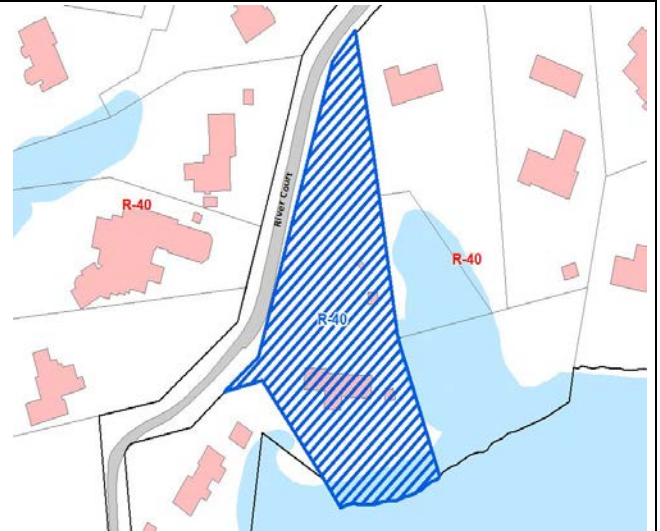
6. 2022-WTRA-00046

David and Joan Michaud
[Applicants & Owners]

To construct a rip rap revetment, sill, and plant vegetation involving wetlands

1725 River Ct
(GPIN 1499-40-7609)

Waterway – Eastern Branch Lynnhaven River
Subdivision – Forest Hills
City Council District: District 5, formerly Lynnhaven



7. 2022-WTRA-00063

Five2Peers Real Estate Trust
[Applicant & Owner]

To dredge and construct groin wall and rip rap sill involving wetlands

3201 Lynnhaven Dr
(GPIN 1489-97-6836)

Waterway – Long Creek
Subdivision – Shore Dr
City Council District: District 5, formerly Lynnhaven



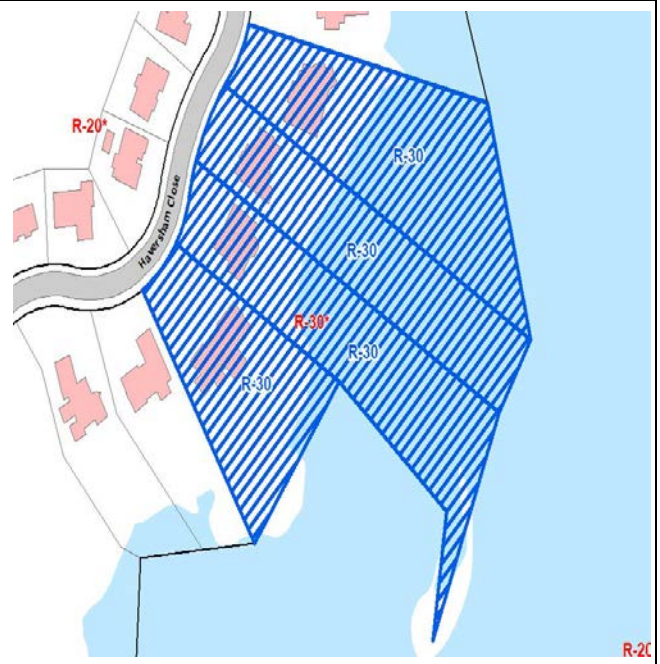
8. 2022-WTRA-00062

Haversham Close, LLC; Robert & Renee Broermann; Barbara J. & Allen M. Larar; Jeanne P. West Trust & Maynard D. West Trust
[Applicants & Owners]

To dredge involving wetlands

2385, 2389, 2393, and 2397 Haversham Close
(GPINs 2409-14-8863, 2409-14-7744, 2409-14-6639, 2409-14-5577)

Waterway – Dey Cove
Subdivision – Broad Bay Point Greens
City Council District: District 5, formerly Lynnhaven



* Deferral
** Withdrawal

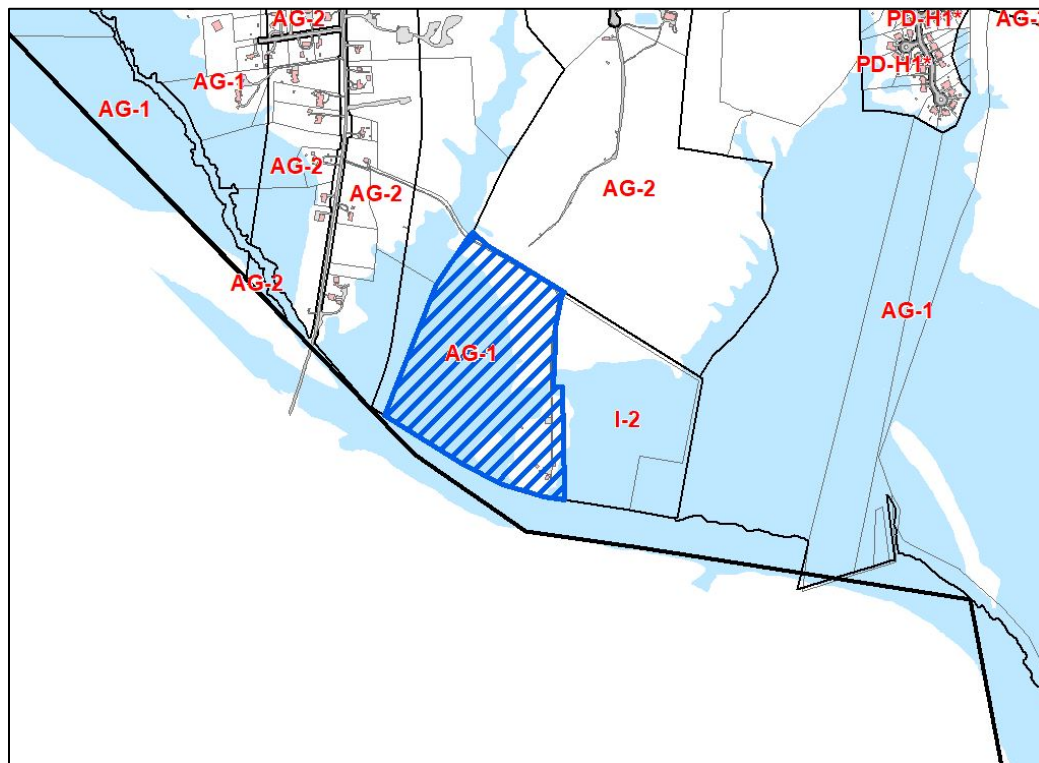
1. 2021-WTRA-00041
Sunoco LLC [Applicant & Owner]

REQUEST FOR 1 YEAR EXTENSION

To construct rip rap and a boat ramp involving wetlands

3924 North Landing Road
(GPIN 1482-79-7939)

Waterway – North Landing River
Subdivision – N/A
Council District: District 7, formerly Princess Anne



Whitney K. McNamara

From: Whitney K. McNamara
Sent: Tuesday, March 15, 2022 9:08 AM
To: Grasso, Blase
Cc: Mark Osenbaugh; Jerry Day (Jwday692@hotmail.com); Shannon M. Heederik
Subject: RE: DSC File #G14-013415 NuStar Shoreline Stabilization Project

This email serves as your request for an extension. We will put the project on the April Wetlands Board agenda for the extension.

Whitney

From: Grasso, Blase <blase.grasso@sunoco.com>
Sent: Tuesday, March 15, 2022 9:04 AM
To: Whitney K. McNamara <WMcNamar@vb.gov.com>
Cc: Mark Osenbaugh <mosenbaugh@mcleancontracting.com>; Jerry Day (Jwday692@hotmail.com) <Jwday692@hotmail.com>
Subject: FW: DSC File #G14-013415 NuStar Shoreline Stabilization Project

CAUTION: This email originated from outside of the City of Virginia Beach. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Good morning Whitney. The contractor for our project reminded me that the attached permit for the project is about to expire. What process do I need to follow to file for an extension? Thank you

Blase M Grasso, PE

Sr. Manager – Project Engineering

875 Kings Hwy, Suite 201 | West Deptford, NJ 08096
O: 856-579-5065 | M: 609-504-2959



From: Mark Osenbaugh <mosenbaugh@mcleancontracting.com>
Sent: Friday, March 11, 2022 3:43 PM
To: Grasso, Blase <blase.grasso@sunoco.com>; 'Ahmad Nadeem (anadeem@anchor-consultants.com)' <anadeem@anchor-consultants.com>; Hon Yong Liew <hyong@mcleancontracting.com>; Jerry Day (Jwday692@hotmail.com) <Jwday692@hotmail.com>
Subject: FW: DSC File #G14-013415 NuStar Shoreline Stabilization Project

All,

2. 2022-WTRA-00014

Harbor Gate Owners Associates, Inc. [Applicant & Owner]

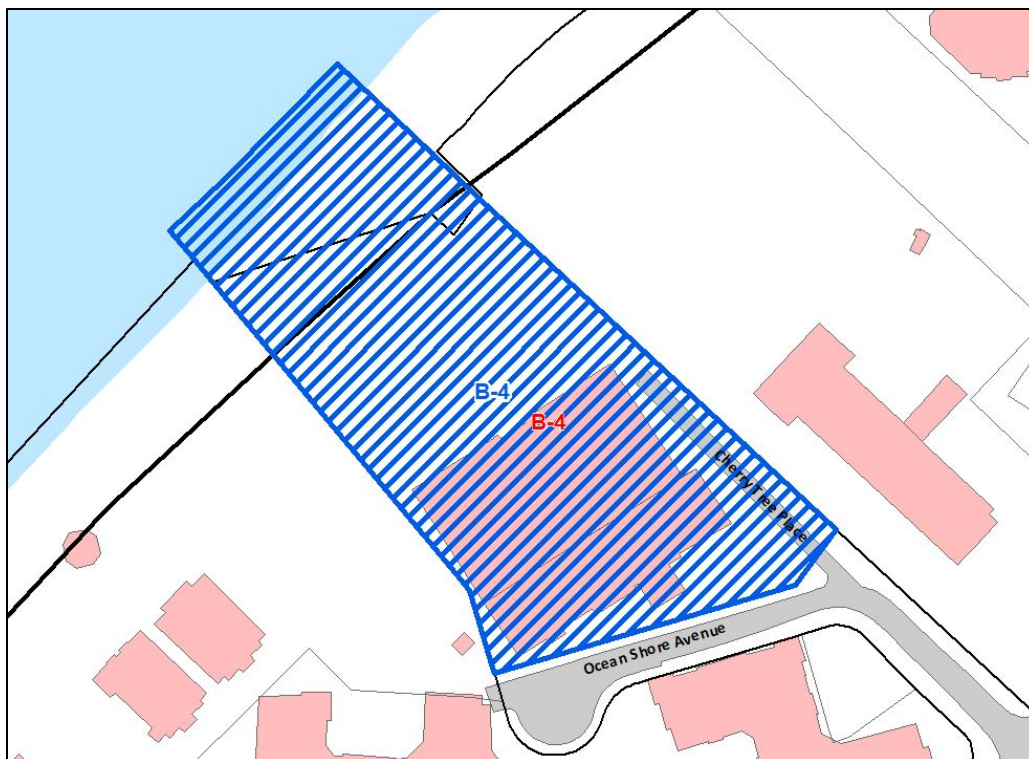
To construct a bulkhead involving Coastal Primary Sand Dune/Beach

3300 Ocean Shore Ave
(GPIN 1489-89-1128)

Waterway – Chesapeake Bay

Subdivision – Harbor Gate Condominium

City Council District: District 5, formerly Lynnhaven



Disclosure Statement



The disclosures contained in this form are necessary to inform public officials who may vote on the application as to whether they have a conflict of interest under Virginia law. The completion and submission of this form is required for all applications that pertain to City real estate matters or to the development and/or use of property in the City of Virginia Beach requiring action by the City Council or a City board, commission or other body.

Applicant Disclosure

Applicant Name Harbour Gate Owners Assoc. Inc.

Does the applicant have a representative? Yes No

- If yes, list the name of the representative.

Calvert Marine, Richard Calvert

Is the applicant a corporation, partnership, firm, business, trust or an unincorporated business? Yes No

- If yes, list the names of all officers, directors, members, trustees, etc. below. (Attach a list if necessary)

Catherine Lane, President John Bergamino, Vice-President Barbara Reinhardt Vraa, Treasurer

Janet Ammerman, Secretary Ashley Cytron, Assistant Secretary

- If yes, list the businesses that have a parent-subsiary¹ or affiliated business entity² relationship with the applicant. (Attach a list if necessary)

N/A

¹ "Parent-subsiary relationship" means "a relationship that exists when one corporation directly or indirectly owns shares possessing more than 50 percent of the voting power of another corporation." See State and Local Government Conflict of Interests Act, VA. Code § 2.2-3101.

² "Affiliated business entity relationship" means "a relationship, other than parent-subsiary relationship, that exists when (i) one business entity has a controlling ownership interest in the other business entity, (ii) a controlling owner in one entity is also a controlling owner in the other entity, or (iii) there is shared management or control between the business entities. Factors that should be considered in determining the existence of an affiliated business entity relationship include that the same person or substantially the same person own or manage the two entities; there are common or commingled funds or assets; the business entities share the use of the same offices or employees or otherwise share activities, resources or personnel on a regular basis; or there is otherwise a close working relationship between the entities." See State and Local Government Conflict of Interests Act, Va. Code § 2.2-3101.

Disclosure Statement



Known Interest by Public Official or Employee

Does an official or employee of the City of Virginia Beach have an interest in the subject land or any proposed development contingent on the subject public action? Yes No

- If yes, what is the name of the official or employee and what is the nature of the interest?
-

Applicant Services Disclosure

1. Does the applicant have any existing financing (mortgage, deeds of trust, cross-collateralization, etc) or are they considering any financing in connection with the subject of the application or any business operating or to be operated on the property? Yes No

- If yes, identify the financial institutions.

To Be Determined once it is known what the City will approve and proposals can be obtained

2. Does the applicant have a real estate broker/agent/realtor for current and anticipated future sales of the subject property? Yes No

- If yes, identify the real estate broker/realtor.
-

3. Does the applicant have services for accounting and/or preparation of tax returns provided in connection with the subject of the application or any business operating or to be operated on the property? Yes No

- If yes, identify the firm or individual providing the service.

United Property Associates, Accounting DesRoches & Company, CPA

4. Does the applicant have services from an architect/landscape architect/land planner provided in connection with the subject of the application or any business operating or to be operated on the property? Yes No

- If yes, identify the firm or individual providing the service.
-

5. Is there any other pending or proposed purchaser of the subject property? Yes No

- If yes, identify the purchaser and purchaser's service providers.
-

Disclosure Statement



6. Does the applicant have a construction contractor in connection with the subject of the application or any business operating or to be operated on the property? Yes No

- If yes, identify the construction contractor.

7. Does the applicant have an engineer/surveyor/agent in connection with the subject of the application or any business operating or to be operated on the property? Yes No

- If yes, identify the engineer/surveyor/agent.

Calvert Marine, Agent

8. Is the applicant receiving legal services in connection with the subject of the application or any business operating or to be operated on the property? Yes No

- If yes, identify the name of the attorney or firm providing legal services.

Applicant Signature

I certify that all of the information contained in this Disclosure Statement Form is complete, true, and accurate. I understand that, upon receipt of notification that the application has been scheduled for public hearing, I am responsible for updating the information provided herein two weeks prior to the meeting of Planning Commission, City Council, VBDA, CBPA, Wetlands Board or any public body or committee in connection with this application.

Harbour Gate Owners' Association

Catherine Lane

Applicant Signature

Catherine Lane, President

Print Name and Title

1-25-22

Date

Is the applicant also the owner of the subject property? Yes No

- If yes, you do not need to fill out the owner disclosure statement.

FOR CITY USE ONLY/ All disclosures must be updated two (2) weeks prior to any Planning Commission and City Council meeting that pertains to the applications

<input type="checkbox"/>	No changes as of	Date	Signature	
			Print Name	

- ❖ DEQ: Permit application fees required for Virginia Water Protection permits – while detailed in 9VAC25-20 – are conveyed to the applicant by the applicable DEQ office (<http://www.deq.virginia.gov/Locations.aspx>). Complete the Permit Application Fee Form and submit it per the instructions to the address listed on the form. Instructions for submitting any other fees will be provided to the applicant by DEQ staff.
- ❖ VMRC: An application fee of \$300 may be required for projects impacting tidal wetlands, beaches and/or dunes when VMRC acts as the LWB. VMRC will notify the applicant in writing if the fee is required. Permit fees involving subaqueous lands are \$25.00 for projects costing \$10,000 or less and \$100 for projects costing more than \$10,000. Royalties may also be required for some projects. The proper permit fee and any required royalty is paid at the time of permit issuance by VMRC. VMRC staff will send the permittee a letter notifying him/her of the proper permit fees and submittal requirements.
- ❖ LWB: Permit fees vary by locality. Contact the LWB for your project area or their website for fee information and submittal requirements. Contact information for LWBs may be found at http://ccrm.vims.edu/permits_web/guidance/local_wetlands_boards.html.

FOR AGENCY USE ONLY	
	Notes:
	JPA # 22-0126


APPLICANTS

Part 1 – General Information

PLEASE PRINT OR TYPE ALL ANSWERS: If a question does not apply to your project, please print N/A (not applicable) in the space provided. If additional space is needed, attach 8-1/2 x 11 inch sheets of paper.

<u>Check all that apply</u>				
Pre-Construction Notification (PCN) <input type="checkbox"/>	Regional Permit 17 (RP-17) <input type="checkbox"/>			
NWP # _____ <i>(For Nationwide Permits ONLY - No DEQ-VWP permit writer will be assigned)</i>				
County or City in which the project is located: VIRGINIA BEACH				
Waterway at project site: CHESAPEAKE BAY				
PREVIOUS ACTIONS RELATED TO THE PROPOSED WORK (Include all federal, state, and local pre application coordination, site visits, previous permits, or applications whether issued, withdrawn, or denied)				
Historical information for past permit submittals can be found online with VMRC - https://webapps.mrc.virginia.gov/public/habitat/ - or VIMS - http://ccrm.vims.edu/perms/newpermits.html				
Agency	Action / Activity	Permit/Project number, including any non-reporting Nationwide permits previously used (e.g., NWP 13)	Date of Action	If denied, give reason for denial

Part 1 - General Information (continued)

1. Applicant's legal name* and complete mailing address: Contact Information:
 Harbour Gate Owners Assoc. Inc.
 3300 Ocean Shore Avenue
 Virginia Beach, VA 23451
 Home () _____
 Work (757) 481-7997
 Fax () _____
 Cell () _____
 e-mail dhadley@unitedpropertyassociates.com
 State Corporation Commission Name and ID Number (if applicable) 01474592
2. Property owner(s) legal name* and complete address, if different from applicant: Contact Information:
 Home () _____
 Work () _____
 Fax () _____
 Cell () _____
 e-mail _____
 State Corporation Commission Name and ID Number (if applicable) _____
3. Authorized agent name* and complete mailing address (if applicable): Contact Information:
 Calvert Marine
 3132 Riveredge Drive
 Portsmouth, VA 23703
 Home () _____
 Work (757) 777-6960
 Fax () _____
 Cell () _____
 e-mail Rich@CalvertMarine.net
 State Corporation Commission Name and ID Number (if applicable) S7252713

*** If multiple applicants, property owners, and/or agents, each must be listed and each must sign the applicant signature page.**

4. Provide a detailed description of the project in the space below, including the type of project, its dimensions, materials, and method of construction. Be sure to include how the construction site will be accessed and whether tree clearing and/or grading will be required, including the total acreage. If the project requires pilings, please be sure to include the total number, type (e.g. wood, steel, etc), diameter, and method of installation (e.g. hammer, vibratory, jetted, etc). If additional space is needed, provide a separate sheet of paper with the project description.

The purpose of the project is to protect the property from continued erosion and loss of beach. Mean High Water has migrated approximately 148 feet since 2016 based on the historical permits at this property. The proposed seawall / bulkhead would mitigate the wave impacts at the Site that are eroding the shoreline at a heavy rate. The proposed seawall would be located at the adjacent property owner's bulkhead located at the Point Chesapeake property and continue 282 feet to the eastern property line. The seawall would continue south 138 ft. and tie into an existing concrete wall. Based on the current Site conditions, there is no definitive dune at this time with the current heavy erosion and loss of beach sand. Any existing vegetated wetlands that was present atop the existing dunes is now gone where the active erosion is present. The existing beach access walk has exposed pilings and portions that has broken and washed away from the heavy storm events. The Owner is reliant upon the City sand replenishment program to help protect the property. They are currently waiting for the next scheduled placement however; it appears that the rate of erosion is exceeding the sand installation. The approved seawall located next door at Point Chesapeake is performing well since it was installed and is very similar in design. The proposed seawall is also located behind the City Easements so that the sand replenishment program can continue.

Part 1 - General Information (continued)

5. Have you obtained a contractor for the project? ___ Yes* X No. *If your answer is “Yes” complete the remainder of this question and submit the Applicant’s and Contractor’s Acknowledgment Form (enclosed)

Contractor’s name* and complete mailing address:

Contact Information:

Home (____) _____

Work (____) _____

Fax (____) _____

Cell (____) _____

email _____

State Corporation Commission Name and ID Number (if applicable) _____

*** If multiple contractors, each must be listed and each must sign the applicant signature page.**

6. List the name, address and telephone number of the newspaper having general circulation in the area of the project. Failure to complete this question may delay local and State processing.

Name and complete mailing address:

Telephone number

The Virginian Pilot
150 Brambleton Avenue
Norfolk, VA 23510

(757) 622-1455 _____

7. Give the following project location information:

Street Address (911 address if available) 3300 Ocean Shore Avenue, Virginia Beach, VA 23451

Lot/Block/Parcel# LYNNHAVEN SHORES BK 1 PARCEL

Subdivision Lynnhaven

City / County Virginia Beach ZIP Code 23451

Latitude and Longitude at Center Point of Project Site (Decimal Degrees):

36.91 / -76.09 (Example: 36.41600/-76.30733)

If the project is located in a rural area, please provide driving directions giving distances from the best and nearest visible landmarks or major intersections. *Note: if the project is in an undeveloped subdivision or property, clearly stake and identify property lines and location of the proposed project. A supplemental map showing how the property is to be subdivided should also be provided.*

8. What are the *primary and secondary purposes of and the need for* the project? For example, the primary purpose may be “to protect property from erosion due to boat wakes” and the secondary purpose may be “to provide safer access to a pier.”

Primary purpose is protect the Owner's property from further erosion and loss

Part 1 - General Information (continued)

9. Proposed use (check one):
 Single user (private, non-commercial, residential)
 Multi-user (community, commercial, industrial, government)
10. Describe alternatives considered and the measures that will be taken to avoid and minimize impacts, to the maximum extent practicable, to wetlands, surface waters, submerged lands, and buffer areas associated with any disturbance (clearing, grading, excavating) during and after project construction. *Please be advised that unavoidable losses of tidal wetlands and/or aquatic resources may require compensatory mitigation.*
- There are no existing vegetated wetlands to be impacted by the proposed bulkhead. The area in front of the proposed bulkhead is currently permitted for sand replenishment under separate JPA.
11. Is this application being submitted for after-the-fact authorization for work which has already begun or been completed? Yes No. If yes, be sure to clearly depict the portions of the project which are already complete in the project drawings.
12. Approximate cost of the entire project (materials, labor, etc.): \$ 1.5 million
Approximate cost of that portion of the project that is channelward of mean low water:
\$ 0
13. Completion date of the proposed work: OCT - 2022
14. Adjacent Property Owner Information: List the name and complete **mailing address**, including zip code, of each adjacent property owner to the project. (NOTE: If you own the adjacent lot, provide the requested information for the first adjacent parcel beyond your property line.) Failure to provide this information may result in a delay in the processing of your application by VMRC.

Point Chesapeake
The Terry Companies Five LLC
1492 S. Independence Blvd.
Suite 101
Virginia Beach, VA 23462

Cape Henry Towers, Council of Co-Owners
3288 Page Avenue
Virginia Beach, VA 23451

APO forms sent to each APO on 02/02/22 via USPS

Part 2 - Signatures

1. Applicants and property owners (if different from applicant).

NOTE: REQUIRED FOR ALL PROJECTS

PRIVACY ACT STATEMENT: The Department of the Army permit program is authorized by Section 10 of the Rivers and Harbors Act of 1899, Section 404 of the Clean Water Act, and Section 103 of the Marine Protection Research and Sanctuaries Act of 1972. These laws require that individuals obtain permits that authorize structures and work in or affecting navigable waters of the United States, the discharge of dredged or fill material into waters of the United States, and the transportation of dredged material for the purpose of dumping it into ocean waters prior to undertaking the activity. Information provided in the Joint Permit Application will be used in the permit review process and is a matter of public record once the application is filed. Disclosure of the requested information is voluntary, but it may not be possible to evaluate the permit application or to issue a permit if the information requested is not provided.

CERTIFICATION: I am hereby applying for all permits typically issued by the DEQ, VMRC, USACE, and/or Local Wetlands Boards for the activities I have described herein. I agree to allow the duly authorized representatives of any regulatory or advisory agency to enter upon the premises of the project site at reasonable times to inspect and photograph site conditions, both in reviewing a proposal to issue a permit and after permit issuance to determine compliance with the permit. In addition, I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

HARBOUR GATE OWNERS' ASSOCIATION, INC.

Applicant's Legal Name (printed/typed)

(Use if more than one applicant)

Catherine Lane

Applicant's Signature *President*

(Use if more than one applicant)

1-25-22

Date

Property Owner's Legal Name (printed/typed)
(If different from Applicant)

(Use if more than one owner)

Property Owner's Signature

(Use if more than one owner)

Date

Part 2 – Signatures (continued)

2. Applicants having agents (if applicable)

CERTIFICATION OF AUTHORIZATION

I (we), HARBOUR GATE OWNERS' ASSOCIATION, INC., hereby certify that I (we) have authorized CALVERT MARINE
(Applicant's legal name(s)) (Agent's name(s))
to act on my behalf and take all actions necessary to the processing, issuance and acceptance of this permit and any and all standard and special conditions attached.

We hereby certify that the information submitted in this application is true and accurate to the best of our knowledge.

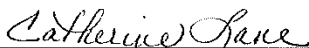


(Agent's Signature)

(Use if more than one agent)

1/15/22

(Date)



(Applicant's Signature)

(Use if more than one applicant)

1/25/22

(Date)

3. Applicant's having contractors (if applicable)

CONTRACTOR ACKNOWLEDGEMENT

I (we), _____, have contracted _____
(Applicant's legal name(s)) (Contractor's name(s))
to perform the work described in this Joint Permit Application, signed and dated _____.

We will read and abide by all conditions set forth in all Federal, State and Local permits as required for this project. We understand that failure to follow the conditions of the permits may constitute a violation of applicable Federal, state and local statutes and that we will be liable for any civil and/or criminal penalties imposed by these statutes. In addition, we agree to make available a copy of any permit to any regulatory representative visiting the project to ensure permit compliance. If we fail to provide the applicable permit upon request, we understand that the representative will have the option of stopping our operation until it has been determined that we have a properly signed and executed permit and are in full compliance with all terms and conditions.

Contractor's name or name of firm

Contractor's or firms address

Contractor's signature and title

Contractor's License Number

Applicant's signature

(use if more than one applicant)

Date

Harbour Gate Owners Assoc. Inc.
3300 Ocean Shore Avenue
Virginia Beach, VA 23451

PROJECT NARRATIVE FOR ALTERNATE SHORELINE

The purpose of the project is to protect the property from continued erosion and loss of beach. Mean High Water has migrated approximately 148 feet since 2016 based on the historical permits at this property. The proposed seawall / bulkhead would mitigate the wave impacts at the Site that are eroding the shoreline at a heavy rate. Based on the current Site conditions, there is no definitive dune at this time with the current heavy erosion and loss of beach sand. Any existing vegetated wetlands that was present atop the existing dunes is now gone where the active erosion is present. The Owner is reliant upon the City sand replenishment program to help protect the property. They are currently waiting for the next scheduled placement however; it appears that the rate of erosion is exceeding the sand installation. The approved seawall located next door at Point Chesapeake is performing well since it was installed and is very similar in design. The proposed seawall is also located behind the City Easements so that the sand replenishment program can continue.

Since the project is located on the Chesapeake Bay, the fetch and harsh wave energy are not ideal conditions for a planting option. The existing dune was vegetated and has eroded heavily with no buffer for the heavy wave energy during storm events. The beach behind the property is also subject to public access. Dune Restoration of the existing dune along the Shoreline would not meet the structural requirements for FEMA to modify the Flood Zone and another restoration project next door failed. Natural and Dune restoration is not a long-term viable alternative for this property.

The possibility of using Rip Rap was examined to determine if this was the best solution for the long term, cost effective, rehabilitation of the Shoreline. The revetment would have to be approximately 13 ft. tall and extend sea-ward some 25 to 30 feet. A revetment would use a large amount of space to install correctly and would impact more area than a seawall. It also has a higher cost of construction and maintenance with a greater risk to adjacent properties in the event of failure. The large amount of stone that would be accessible to the General Public is not a risk that the Owner's would want to undertake.

After review of the property a new replacement bulkhead was found to be a better solution than a Living Shoreline or Rip Rap Revetment based on the site-specific conditions. Listed below are the reasons that this method was implemented:

1. The Seawall design is similar to the successful Virginia Beach oceanfront project and the wall next door.
2. The ACOE determined that the oceanfront seawall has excellent structural integrity and low failure risk.

Cape Henry Beach is scheduled for sand replenishment as soon the sand is available. The City of Virginia Beach has a program to maintain the beach in this area. Due to the numerous NE storms over the last year, the erosion rate has accelerated to the point where it exceeds the replenishment schedule. If this erosion continues the existing structures could be in jeopardy. The wall has the smallest footprint, lower cost of long-term maintenance and a lower potential risk to the adjacent property owners in the event of failure.

Part 3 – Appendices (continued)

Appendix B: Projects for Shoreline Stabilization in tidal wetlands, tidal waters and dunes/beaches including riprap revetments and associated backfill, marsh toe stabilization, bulkheads and associated backfill, breakwaters, beach nourishment, groins, jetties, and living shoreline projects. Answer all questions that apply. Please provide any reports provided from the Shoreline Erosion Advisory Service or VIMS.

NOTE: It is the policy of the Commonwealth that living shorelines are the preferred alternative for stabilizing tidal shorelines (Va. Code § 28.2-104.1). **Information on non-structural, vegetative alternatives (i.e., Living Shoreline) for shoreline stabilization is available at http://ccrm.vims.edu/coastal_zone/living_shorelines/index.html.**

1. Describe each **revetment, bulkhead, marsh toe, breakwater, groin, jetty, other structure, or living shoreline project** separately in the space below. Include the overall length in linear feet, the amount of impacts in acres, and volume of associated backfill below mean high water and/or ordinary high water in cubic yards, as applicable:

The proposed seawall would be located at the adjacent property owner's bulkhead located at the Point Chesapeake property and continue 282 feet to the eastern property line. The seawall would continue south 138 ft. and tie into an existing concrete wall. Total Length = 420 LF. Based on the current Site conditions, there is no definitive dune at this time with the current heavy erosion and loss of beach sand. Any existing vegetated wetlands that was present atop the existing dunes is now gone where the active erosion is present. The location of the new bulkhead was approximately 3 ft. from the edge of scarp when the survey was undertaken. It has since moved 20 to 30 ft. landward. The amount of sand required to backfill behind the wall to match grade caused by erosion at the time of the survey is approximately 1800 CY.

2. What is the maximum encroachment channelward of mean high water? 0 feet.
Channelward of mean low water? 0 feet.
Channelward of the back edge of the dune or beach? 3 feet.

3. Please calculate the square footage of encroachment over:

- Vegetated wetlands 0 square feet
- Non-vegetated wetlands 0 square feet
- Subaqueous bottom 0 square feet
- Dune and/or beach 840 square feet

1,800 SF of sand backfill will be placed where the current erosion has occurred behind the proposed bulkhead

4. For bulkheads, is any part of the project maintenance or replacement of a previously authorized, currently serviceable, existing structure? ___ Yes x No.

If yes, will the construction of the new bulkhead be no further than two (2) feet channelward of the existing bulkhead? ___ Yes ___ No.

If no, please provide an explanation for the purpose and need for the additional encroachment.

Part 3 – Appendices (continued)

5. Describe the type of construction and **all** materials to be used, including source of backfill material, if applicable (e.g., vinyl sheet-pile bulkhead, timber stringers and butt piles, 100% sand backfill from upland source; broken concrete core material with Class II quarry stone armor over filter cloth).

NOTE: Drawings must include construction details, including dimensions, design and all materials, including fittings if used.

The proposed Bulkhead / Seawall shall be steel sheet pile sheets with a reinforced 2' x 3' Concrete Cap atop the new wall. The wall shall have a continuous steel wale with a tie rod system to adequately secure the proposed wall. Contract Drawings to be provided for Construction of the wall to follow. Any sand backfill will be beach grade sand from an upland source.

6. If using stone, broken concrete, etc. for your structure(s), what is the average weight of the:
Core (inner layer) material _____ pounds per stone Class size _____
Armor (outer layer) material _____ pounds per stone Class size _____
7. For **beach nourishment**, including that associated with breakwaters, groins or other structures, provide the following:

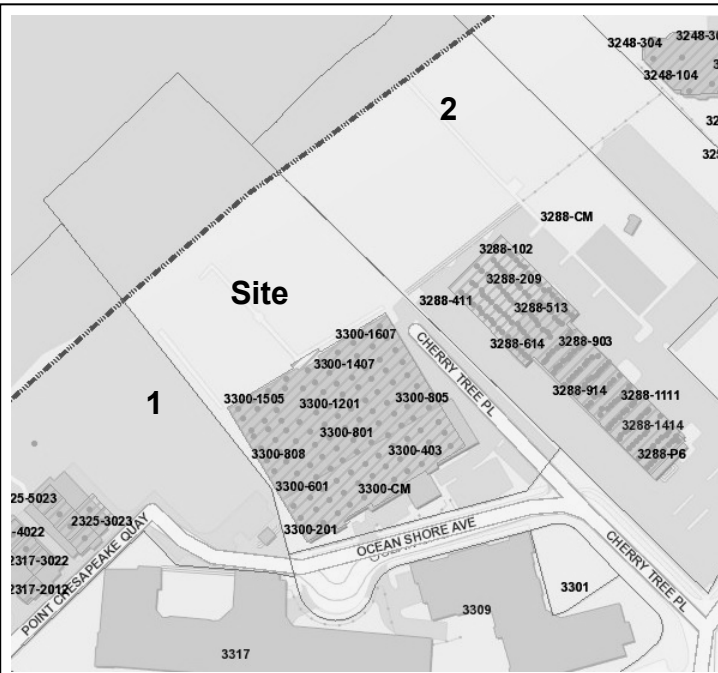
- Volume of material 0 _____ cubic yards channelward of mean low water
 0 _____ cubic yards landward of mean low water
 0 _____ cubic yards channelward of mean high water
 20400 _____ cubic yards landward of mean high water

- Area to be covered _____ square feet channelward of mean low water
 20400 _____ square feet landward of mean low water
 1600 _____ cubic yards channelward of mean high water
 _____ cubic yards landward of mean high water

- Source of material, composition (e.g. 90% sand, 10% clay): sand backfill will be beach grade sand from an upland source.
- Method of transportation and placement:

-
- Describe any proposed vegetative stabilization measures to be used, including planting schedule, spacing, monitoring, etc. Additional guidance is available at <http://www.vims.edu/about/search/index.php?q=planting+guidelines>:

Owner to provide planting under separate Application if required.



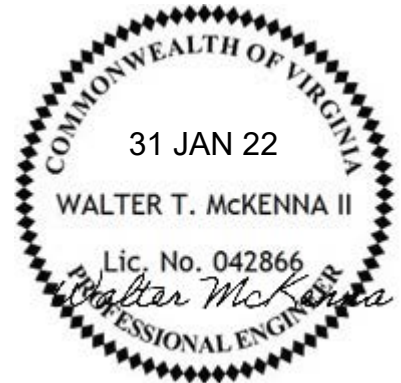
PROPERTY MAP

STREET MAP

THE COMPLETE PROVISIONS FOR A STORMWATER MANAGEMENT PLAN AS REQUIRED BY THE STORMWATER MANAGEMENT ORDINANCE ARE NOT SHOWN ON THIS PLAN. THE PERMITTEE HAS CHOSEN TO UTILIZE THE "AGREEMENT IN LIEU OF A STORMWATER MANAGEMENT PLAN".


THE LOCATION, TYPES AND SIZES OF PROPOSED PERMANENT STORMWATER MANAGEMENT CONTROLS WILL BE PROVIDED ON THE DRAWINGS ISSUED FOR CONSTRUCTION.

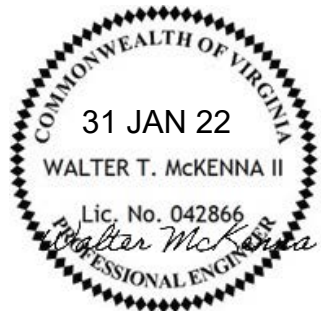
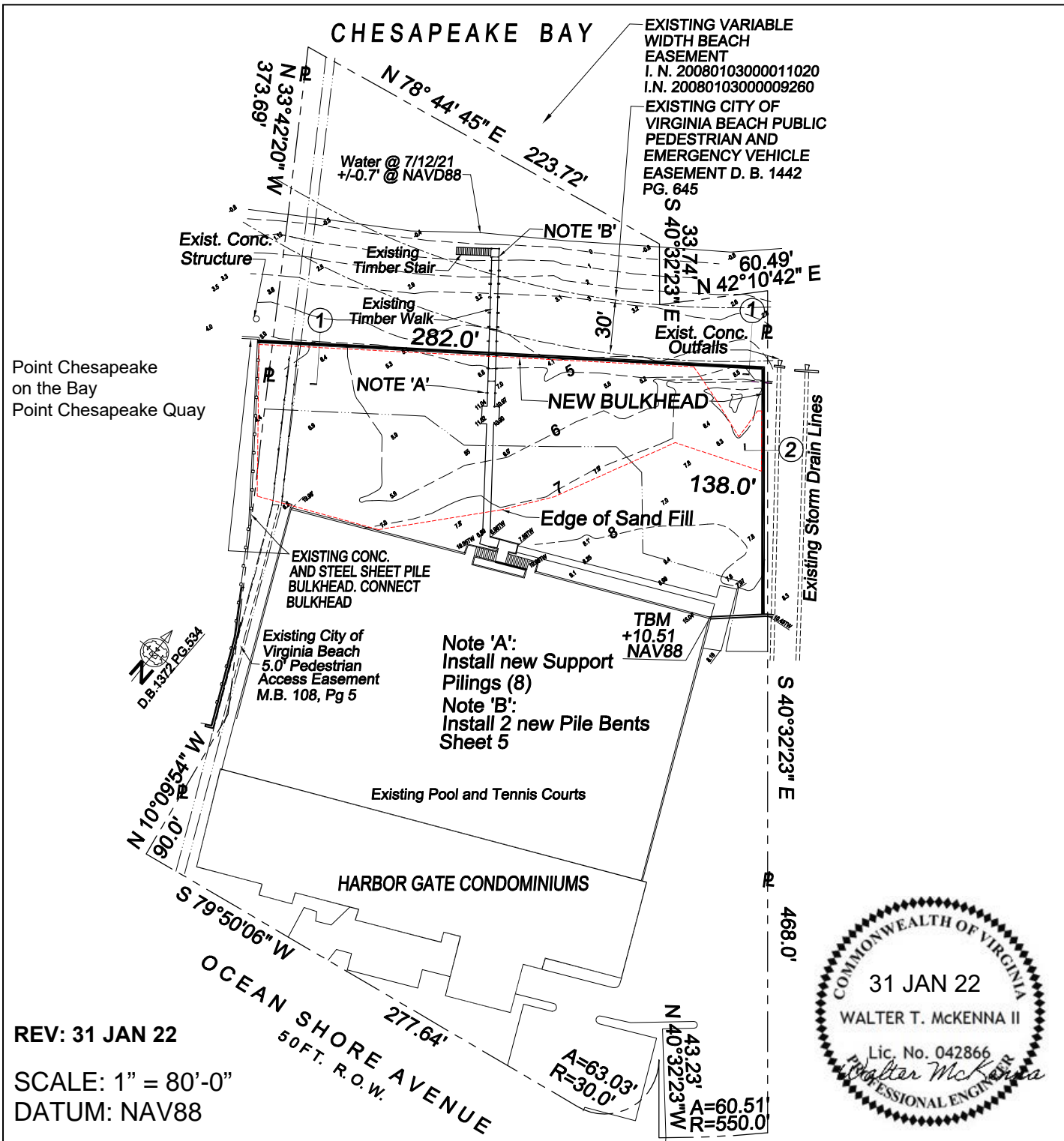
LEGAL: LYNNHAVEN SHORES BK 1 PARCEL



NO SCALE
DATUM: NAV88

REV: 31 JAN 22

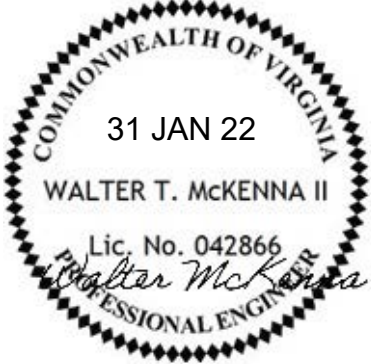
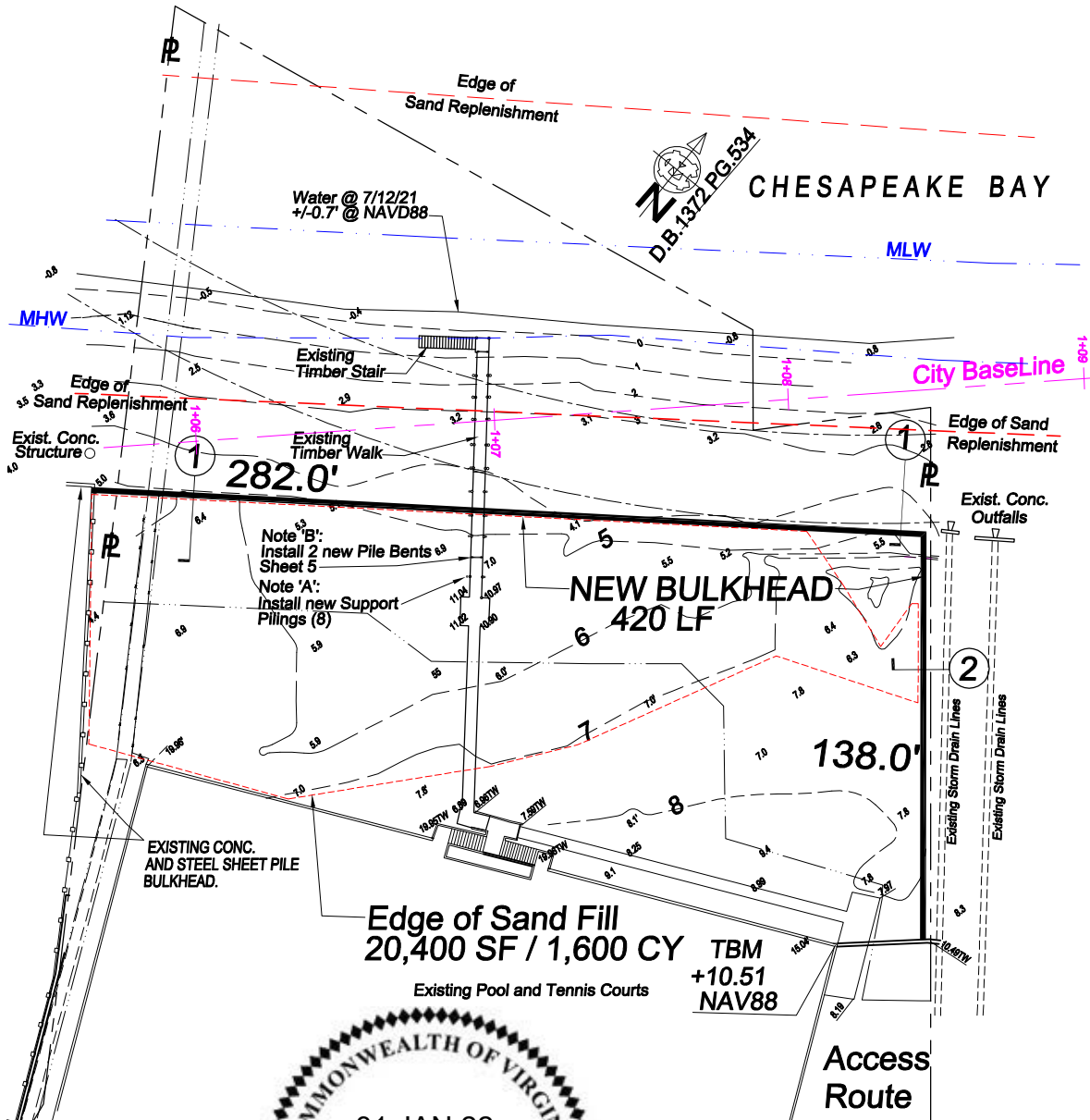
 <p>CALVERT MARINE Marine and Environmental Permits</p>	<p style="text-align: center;">VICINITY MAP</p> <p>Adjacent Property Owners: 1. Point Chesapeake / The Terry Companies Five LLC 2. Cape Henry Towers Condominiums</p>	<p>Proposed: NEW BULKHEAD & ASSOC. FILL in: CHESAPEAKE BAY at: 3300 OCEAN SHORE AVE. County of: Virginia Beach Applicant: Harbour Gate Owners Assoc. Inc. Sheet: 1 of 7 Date: 08 AUG 2021</p>
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PLAN - EXISTING

Adjacent Property Owners:
1. Point Chesapeake / The Terry Companies Five LLC
2. Cape Henry Towers Condominiums

Proposed: **NEW BULKHEAD & ASSOC. FILL** in: **CHESAPEAKE BAY**
at: **3300 OCEAN SHORE AVE.**
County of: **Virginia Beach**
Applicant: **Harbour Gate Owners Assoc. Inc.**
Sheet: **2 of 7** Date: **08 AUG 2021**



REV: 31 JAN 22

SCALE: 1" = 60'-0"

DATUM: NAV88



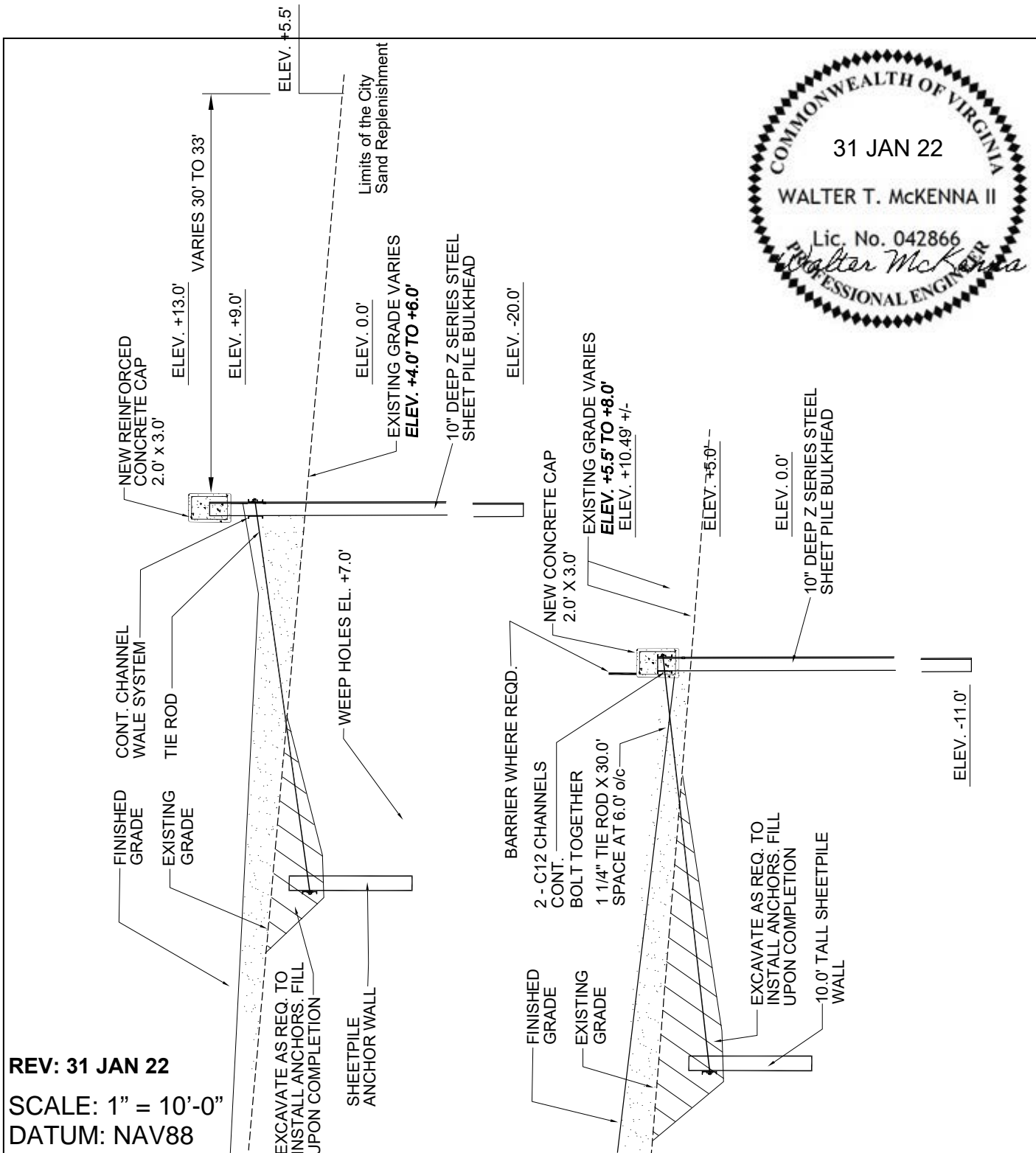
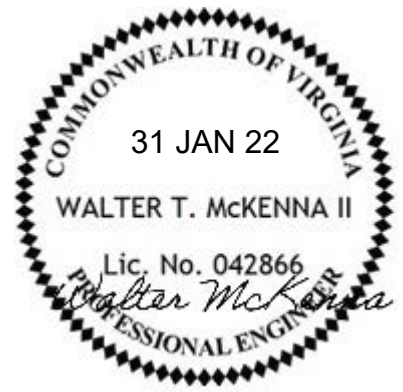
CALVERT MARINE
Marine and Environmental Permits

WTM
MARINE LLC
Engineering
1 GORDON DRIVE
PO QUOSON, VA

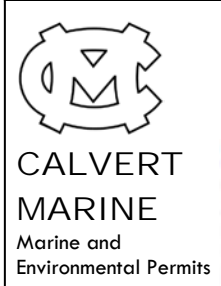
PLAN - NEW WORK

Adjacent Property Owners:
1. Point Chesapeake / The Terry Companies Five LLC
2. Cape Henry Towers Condominiums

Proposed: **NEW BULKHEAD & ASSOC. FILL** in: **CHESAPEAKE BAY**
at: **3300 OCEAN SHORE AVE.**
County of: **Virginia Beach**
Applicant: **Harbour Gate Owners Assoc. Inc.**
Sheet: **3 of 7** Date: **08 AUG 2021**



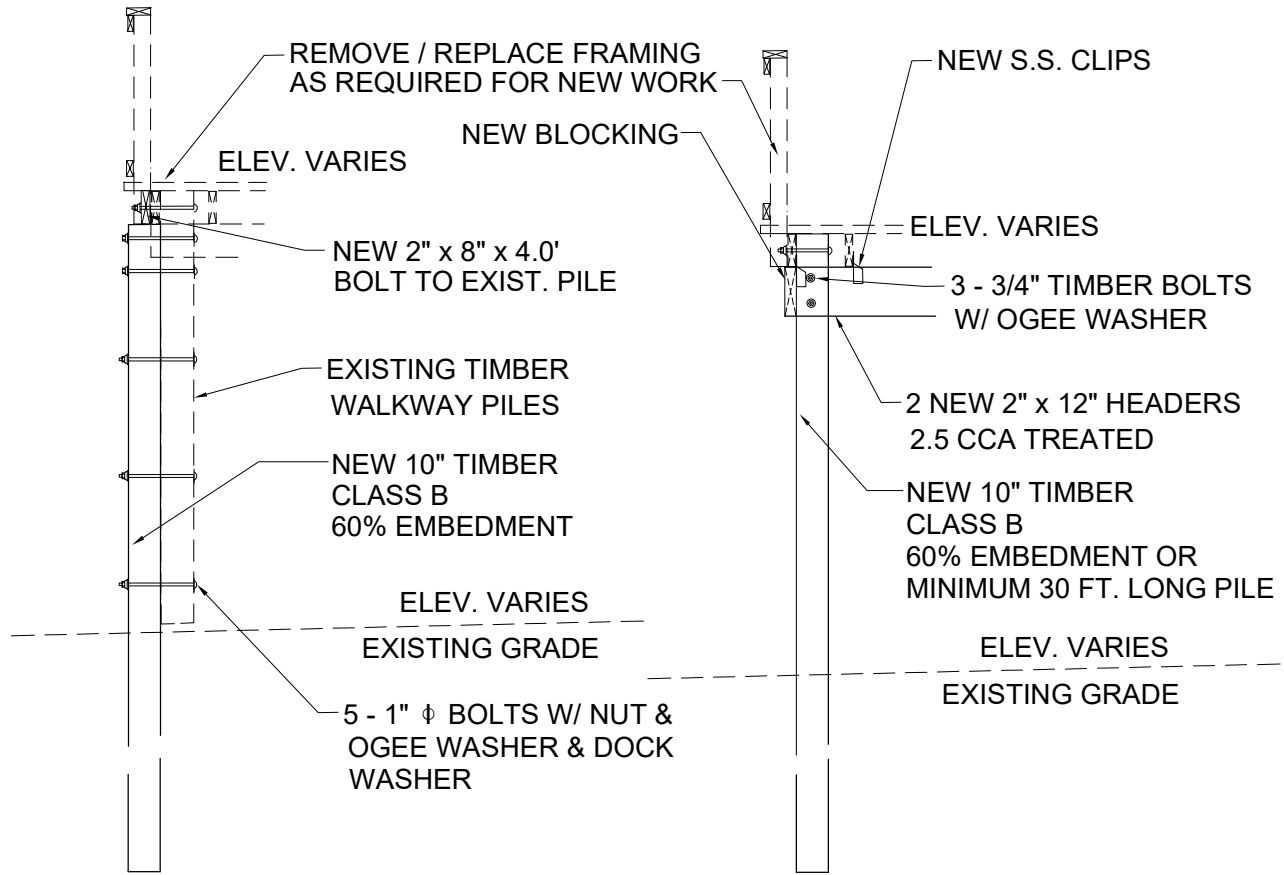
REV: 31 JAN 22
 SCALE: 1" = 10'-0"
 DATUM: NAV88



SECTIONS

Adjacent Property Owners:
 1. Point Chesapeake / The Terry Companies Five LLC
 2. Cape Henry Towers Condominiums

Proposed: **NEW BULKHEAD & ASSOC. FILL**
 in: **CHESAPEAKE BAY**
 at: **3300 OCEAN SHORE AVE.**
 County of: **Virginia Beach**
 Applicant: **Harbour Gate Owners Assoc. Inc.**
 Sheet: **4 of 7** Date: **08 AUG 2021**

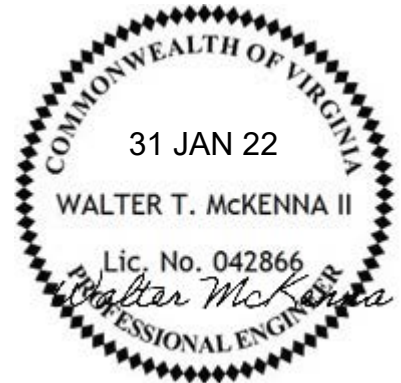


EXISTING PILE REPAIR DETAIL

NEW TIMBER PILE BENT DETAIL

REV: 31 JAN 22

SCALE: 1/4" = 1'-0"
 DATUM: NAV88

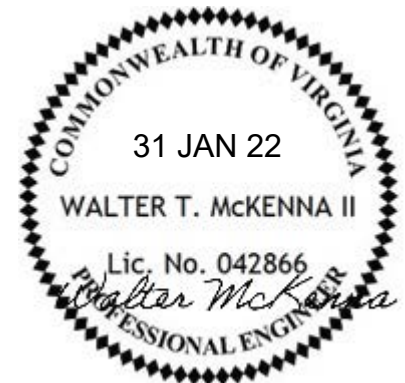


 <p>CALVERT MARINE Marine and Environmental Permits</p>	<p align="center">PILE REPAIR DETAIL</p> <p>Adjacent Property Owners: 1. Point Chesapeake / The Terry Companies Five LLC 2. Cape Henry Towers Condominiums</p>	<p>Proposed: NEW BULKHEAD & ASSOC. FILL in: CHESAPEAKE BAY at: 3300 OCEAN SHORE AVE. County of: Virginia Beach Applicant: Harbour Gate Owners Assoc. Inc. Sheet: 5 of 7 Date: 08 AUG 2021</p>
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NOTES:

1. THE PROPERTY OWNERS ARE IDENTIFIED ON THE PROPERTY MAP, SHEET 1.
2. CONTRACTOR SHALL LOCATE ALL PROPERTY LINES PRIOR TO THE START OF CONSTRUCTION. NO WORK SHOWN ON THIS PERMIT SHALL ENCROACH UPON ANY OTHER PROPERTY OWNERS.
3. CONTRACTOR AND OWNER TO VERIFY ALL UTILITY LINES LOCATED IN THE WORK AREA. MISS UTILITY SHALL MARK ALL LINES PRIOR TO THE START OF WORK. CONTRACTOR TO CONTACT THE CITY AND LOCATE THE EXISTING CONCRETE STORM DRAINS AT THE EASTERN PROPERTY LINE TO VERIFY THERE IS NO CONFLICT WITH THE NEW WALL.
4. CONTRACTOR SHALL PROTECT THE EXISTING STRUCTURES TO REMAIN FROM DAMAGE DURING THE CONSTRUCTION PROCESS. THE CONTRACTOR SHALL PROTECT THE WORK ARE FROM THE GENERAL PUBLIC BY FENCING AND SIGNAGE DURING THE CONSTRUCTION PROCESS.
5. THE WORK SHALL BE COMPLETED BY LAND.
6. ALL DENUDED AND OR DAMAGED VEGETATION SHALL BE REPLACED IN KIND. ALL STREETS AND ADJACENT PROPERTIES SHALL BE MAINTAINED DURING THE PROJECT AS WELL.
7. ALL LUMBER SHALL BE SOUTHERN YELLOW PINE.
8. ALL TIMBER SHALL BE 2.5# CCA TREATED.
9. ALL DECKING SHALL BE 2" X 6", No. 1 GRADE.
10. ALL TREATMENT SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS AND PROCEDURES OF THE AMERICAN WOOD PRESERVERS ASSOCIATION.
11. ALL BOLTS SHALL BE HDG, 3/4" DIAMETER GALVANIZED BOLT (ASTM A307) U.O.N.
12. DECKING SHALL BE ATTACHED WITH STAINLESS STEEL SCREWS.
13. ALL HARDWARE AND MISC. METALS SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM, A153.
14. ALL DEMOLISHED MATERIAL SHALL BE HAULED OFFSITE AND LEGALLY DISPOSED.
15. THE DRAWINGS ARE FOR THE PURPOSE OF DEFINING THE SCOPE OF WORK FOR THE JOINT PERMIT APPLICATION. DESIGN DRAWINGS AND SPECIFICATIONS SHALL BE PROVIDED FOR THE CONSTRUCTION OF THE PROJECT. CONTRACTOR AND OWNER TO VERIFY THE DESIGN COMPLIES WITH THE CONDITIONS OF THE PERMITS ISSUED BY THE CITY, VMRC AND THE ARMY CORPS OF ENGINEERS.

THE APPLICANT IS REQUESTING THAT THE 5.0' PEDESTRIAN EASEMENT BE ABANDONED SINCE THERE WILL BE NO ACCESS TO THE BEACH THROUGH THE PROPERTY AFTER CONSTRUCTION OF THE NEW BULKHEAD.



REV: 31 JAN 22

 <p>CALVERT MARINE Marine and Environmental Permits</p>	 <p>WTM MARINE LLC Engineering 1 GORDON DRIVE POQUOSON, VA</p>	<p style="text-align: center;">NOTES</p> <p>Adjacent Property Owners: 1.Point Chesapeake / The Terry Companies Five LLC 2.Cape Henry Towers Condominiums</p>	<p>Proposed: NEW BULKHEAD & ASSOC. FILL in: CHESAPEAKE BAY at: 3300 OCEAN SHORE AVE. County of: Virginia Beach Applicant: Harbour Gate Owners Assoc. Inc. Sheet: 6 of 7 Date: 08 AUG 2021</p>
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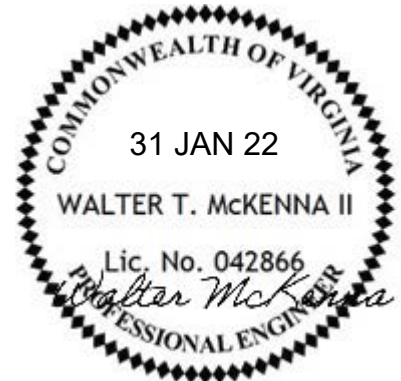
BULKHEAD NOTES:

1. Coordinate driving operations to prevent damage or displacement of concrete in substructure units or damage to adjacent facilities due to vibrations.
2. Drive sheeting with a variation of 1/4 inch or less per foot from the vertical. Ensure that the sheet piles are within 2 inches of the plan position after driving. Do not damage sheet piles attempting to correct for misalignment.
3. The new wall shall be secured / anchored with a steel sheet pile dead-man continuous wall as shown.
4. Drive sheet piles to or beyond the required tip elevation the plans show.
5. Furnish a sheet pile driving system capable of driving the sheet piles to the required minimum tip elevation the plans shown.
6. Drive sheet piles with diesel, air, steam, gravity, hydraulic, or vibratory hammers.
7. Brace the steel sheet piling with wales as the plans show. Provide continuous wales as shown for connection of the tie rods assembly.
8. Steel wale assembly shall comply with ASTM A36.
9. Provide a reinforced 4000 PSI concrete cap atop the new wall as shown.
10. Provide weep hole cartridges in the new wall as shown and noted.
11. Cold rolled steel sheet piles shall be ASTM A572. The sheets shall be sand blasted and coated with cold tar epoxy in accordance with the manufacturers' recommendations.
12. The drawings have been prepared for the Joint Permit Application only. Complete Engineered drawings and Specifications, including E. and S. controls, will be prepared for the new Construction.

CONSTRUCTION SEQUENCE:

1. Meet with City Staff prior to the start of work to discuss the project. 1D
(All access routes, signage and fencing shall be in place.)
2. Install new sheet pile wall 30D
3. Drive new Timber Piles 1D
4. Install Steel Wale / Anchor System 30D
5. Install Concrete Cap 30D

THE DESIGN AT LEAST EQUIVALENT TO OR BETTER THAN THE CITY OF VIRGINIA BEACH STANDARD WAKEFIELD DESIGN AS SHOWN IN APPENIX C OF THE DEPARTMENT OF PUBLIC WORKS SPECIFICATIONS AND STANDARDS



NO SCALE
DATUM: NAV88

REV: 31 JAN 22



SPECIFICATIONS

Adjacent Property Owners:
1. Point Chesapeake / The Terry Companies Five LLC
2. Cape Henry Towers Condominiums

Proposed: **NEW BULKHEAD & ASSOC. FILL**
in: **CHESAPEAKE BAY**
at: **3300 OCEAN SHORE AVE.**
County of: **Virginia Beach**
Applicant: **Harbour Gate Owners Assoc. Inc.**
Sheet: **7 of 7** Date: **08 AUG 2021**

Part 2 – Signatures (continued)

ADJACENT PROPERTY OWNER'S ACKNOWLEDGEMENT FORM

I (we), ^{Cape Henry Towers, Council of Co-Owners 3288 Page Avenue 23451}
_____, own land next to (across the water
(Print adjacent/nearby property owner's name)

from/on the same cove as) the land of ^{Harbour Gate Owners Assoc. Inc. 3300 Ocean Shore Avenue 23451}
_____.
(Print applicant's name(s))

I have reviewed the applicant's project drawings dated 08 AUG 21
(Date)

to be submitted for all necessary federal, state and local permits.

I HAVE NO COMMENT _____ ABOUT THE PROJECT.

I DO NOT OBJECT _____ TO THE PROJECT.

I OBJECT _____ TO THE PROJECT.

The applicant has agreed to contact me for additional comments if the proposal changes prior to construction of the project.

(Before signing this form be sure you have checked the appropriate option above).

Adjacent/nearby property owner's signature(s)

Date

Note: If you object to the proposal, the reason(s) you oppose the project must be submitted in writing to VMRC. An objection will not necessarily result in denial of the project; however, valid complaints will be given full consideration during the permit review process.



CALVERT MARINE
Marine and
Environmental Permits

Richard Calvert
Owner



757-777-6960
Rich@CalvertMarine.net

MAILING ADDRESS:
The Terry Companies Five LLC
1492 S. Independence Blvd.
Suite 101
Virginia Beach, VA 23462

Part 2 – Signatures (continued)

ADJACENT PROPERTY OWNER'S ACKNOWLEDGEMENT FORM

I (we), Point Chesapeake The Terry Companies Five LLC, own land next to (across the water
(Print adjacent/nearby property owner's name)

from/on the same cove as) the land of Harbour Gate Owners Assoc. Inc. 3300 Ocean Shore Avenue 23451.
(Print applicant's name(s))

I have reviewed the applicant's project drawings dated 08 AUG 21
(Date)

to be submitted for all necessary federal, state and local permits.

I HAVE NO COMMENT _____ ABOUT THE PROJECT.

I DO NOT OBJECT _____ TO THE PROJECT.

I OBJECT _____ TO THE PROJECT.

The applicant has agreed to contact me for additional comments if the proposal changes prior to construction of the project.

(Before signing this form, be sure you have checked the appropriate option above).

Adjacent/nearby property owner's signature(s)

Date

Note: If you object to the proposal, the reason(s) you oppose the project must be submitted in writing to VMRC. An objection will not necessarily result in denial of the project; however, valid complaints will be given full consideration during the permit review process.



CALVERT MARINE
Marine and
Environmental Permits

Richard Calvert
Owner

757-777-6960

Rich@CalvertMarine.net



3. 2022-WTRA-00028

William F. & Mary E. Dingler [Applicants & Owners]

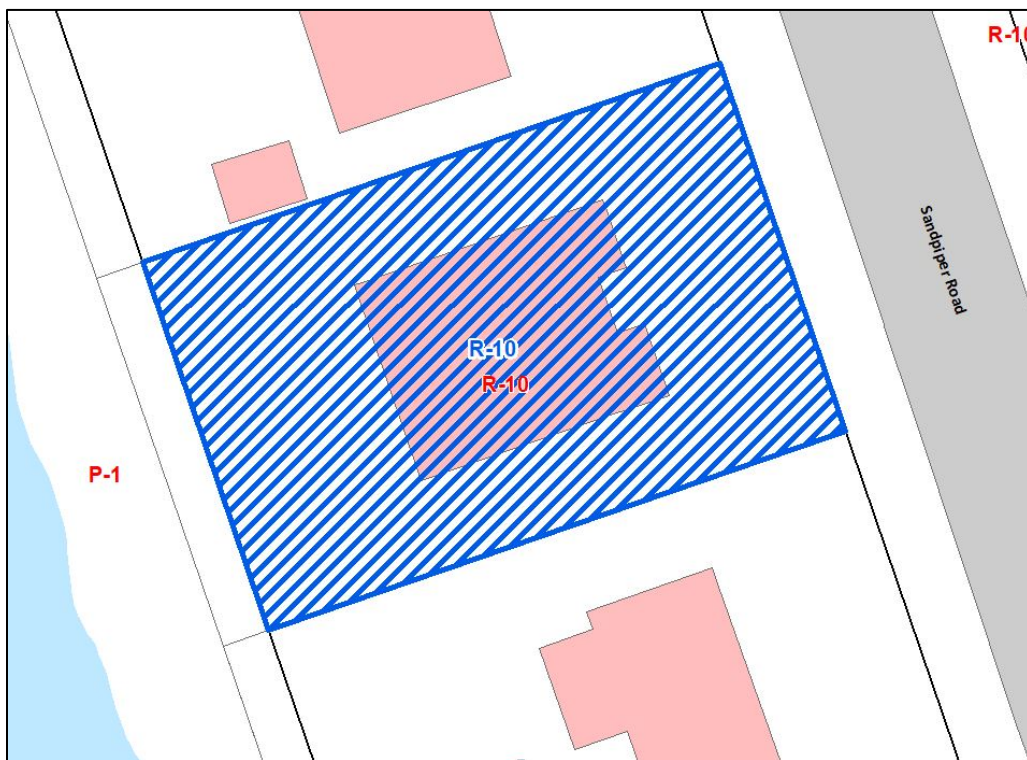
To construct a bulkhead, dock, and floating dock involving wetlands

2789 Sandpiper Rd
(GPIN 2433-26-7911)

Waterway – Man-made canal to North Bay

Subdivision – Sandbridge

City Council District: District 7, formerly Princess Anne



Disclosure Statement



The disclosures contained in this form are necessary to inform public officials who may vote on the application as to whether they have a conflict of interest under Virginia law. The completion and submission of this form is required for all applications that pertain to City real estate matters or to the development and/or use of property in the City of Virginia Beach requiring action by the City Council or a City board, commission or other body.

Applicant Disclosure

Applicant Name William & Mary Dingler

Does the applicant have a representative? Yes No

- If yes, list the name of the representative.
Sigma Environmental Services, Inc.

Is the applicant a corporation, partnership, firm, business, trust or an unincorporated business? Yes No

- If yes, list the names of all officers, directors, members, trustees, etc. below. (Attach a list if necessary)

- If yes, list the businesses that have a parent-subsidary¹ or affiliated business entity² relationship with the applicant. (Attach a list if necessary)

¹ "Parent-subsidary relationship" means "a relationship that exists when one corporation directly or indirectly owns shares possessing more than 50 percent of the voting power of another corporation." See State and Local Government Conflict of Interests Act, VA. Code § 2.2-3101.

² "Affiliated business entity relationship" means "a relationship, other than parent-subsidary relationship, that exists when (i) one business entity has a controlling ownership interest in the other business entity, (ii) a controlling owner in one entity is also a controlling owner in the other entity, or (iii) there is shared management or control between the business entities. Factors that should be considered in determining the existence of an affiliated business entity relationship include that the same person or substantially the same person own or manage the two entities; there are common or commingled funds or assets; the business entities share the use of the same offices or employees or otherwise share activities, resources or personnel on a regular basis; or there is otherwise a close working relationship between the entities." See State and Local Government Conflict of Interests Act, Va. Code § 2.2-3101.

Disclosure Statement



Known Interest by Public Official or Employee

Does an **official or employee of the City of Virginia Beach** have an interest in the subject land or any proposed development contingent on the subject public action? **Yes** **No**

- If **yes**, what is the name of the official or employee and what is the nature of the interest?
-

Applicant Services Disclosure

1. Does the applicant have any **existing financing (mortgage, deeds of trust, cross-collateralization, etc) or are they considering any financing** in connection with the subject of the application or any business operating or to be operated on the property? **Yes** **No**

- If **yes**, identify the financial institutions providing the service.
-

2. Does the applicant have a **real estate broker/agent/realtor** for current and anticipated future sales of the subject property? **Yes** **No**

- If **yes**, identify the company and individual providing the service.
-

3. Does the applicant have services for **accounting and/or preparation of tax returns** provided in connection with the subject of the application or any business operating or to be operated on the property? **Yes** **No**

- If **yes**, identify the firm and individual providing the service.
-

4. Does the applicant have services from an **architect/landscape architect/land planner** provided in connection with the subject of the application or any business operating or to be operated on the property? **Yes** **No**

- If **yes**, identify the firm and individual providing the service.
-

5. Is there any other **pending or proposed purchaser** of the subject property? **Yes** **No**

- If **yes**, identify the purchaser and purchaser's service providers.
-

Disclosure Statement



6. Does the applicant have a **construction contractor** in connection with the subject of the application or any business operating or to be operated on the property? Yes No

- If **yes**, identify the company and individual providing the service.

7. Does the applicant have an **engineer/surveyor/agent** in connection with the subject of the application or any business operating or to be operated on the property? Yes No

- If **yes**, identify the firm and individual providing the service.
Sigma Environmental Services, Inc.

8. Is the applicant receiving **legal services** in connection with the subject of the application or any business operating or to be operated on the property? Yes No

- If **yes**, identify the firm and individual providing the service.

Applicant Signature

I certify that all of the information contained in this Disclosure Statement Form is complete, true, and accurate. I understand that, upon receipt of notification that the application has been scheduled for public hearing, I am responsible for updating the information provided herein two weeks prior to the meeting of Planning Commission, City Council, VBDA, CBPA, Wetlands Board or any public body or committee in connection with this application.

William F. Dingler, Jr. Mary Dingler

Applicant Signature

William Dingler & Mary Dingler

Print Name and Title

3/10/22

Date

Is the applicant also the owner of the subject property? Yes No

- If **yes**, you do not need to fill out the owner disclosure statement.

FOR CITY USE ONLY/ All disclosures must be updated two (2) weeks prior to any Planning Commission and City Council meeting that pertains to the applications

<input type="checkbox"/>	No changes as of	Date	Signature	
			Print Name	

- ❖ DEQ: Permit application fees required for Virginia Water Protection permits – while detailed in 9VAC25-20 – are conveyed to the applicant by the applicable DEQ office (<http://www.deq.virginia.gov/Locations.aspx>). Complete the Permit Application Fee Form and submit it per the instructions to the address listed on the form. Instructions for submitting any other fees will be provided to the applicant by DEQ staff.
- ❖ VMRC: An application fee of \$300 may be required for projects impacting tidal wetlands, beaches and/or dunes when VMRC acts as the LWB. VMRC will notify the applicant in writing if the fee is required. Permit fees involving subaqueous lands are \$25.00 for projects costing \$10,000 or less and \$100 for projects costing more than \$10,000. Royalties may also be required for some projects. The proper permit fee and any required royalty is paid at the time of permit issuance by VMRC. VMRC staff will send the permittee a letter notifying him/her of the proper permit fees and submittal requirements.
- ❖ LWB: Permit fees vary by locality. Contact the LWB for your project area or their website for fee information and submittal requirements. Contact information for LWBs may be found at http://ccrm.vims.edu/permits_web/guidance/local_wetlands_boards.html.

FOR AGENCY USE ONLY	
	Notes:
	JPA # 22-0260

APPLICANTS

Part 1 – General Information

PLEASE PRINT OR TYPE ALL ANSWERS: If a question does not apply to your project, please print N/A (not applicable) in the space provided. If additional space is needed, attach 8-1/2 x 11 inch sheets of paper.

<i>Check all that apply</i>				
Pre-Construction Notification (PCN) <input type="checkbox"/>	Regional Permit 17 (RP-17) <input type="checkbox"/>			
NWP # _____ (For Nationwide Permits ONLY - No DEQ-VWP permit writer will be assigned)				
County or City in which the project is located: <u>City of Virginia Beach</u>				
Waterway at project site: <u>Man-Made canal off North Bay/Back Bay</u>				
PREVIOUS ACTIONS RELATED TO THE PROPOSED WORK (Include all federal, state, and local pre application coordination, site visits, previous permits, or applications whether issued, withdrawn, or denied)				
Historical information for past permit submittals can be found online with VMRC - https://webapps.mrc.virginia.gov/public/habitat/ - or VIMS - http://ccrm.vims.edu/perms/newpermits.html				
Agency	Action / Activity	Permit/Project number, including any non-reporting Nationwide permits previously used (e.g., NWP 13)	Date of Action	If denied, give reason for denial

Part 1 - General Information (continued)

1. Applicant's legal name* and complete mailing address: Contact Information:
William & Mary Dingler Home () _____
9336 Willies Way Trail Work () _____
Mechanicsville, VA 23116 Fax () _____
Cell (757) 633-3335
e-mail bill.dingler@gmail.com
- State Corporation Commission Name and ID Number (if applicable) _____
2. Property owner(s) legal name* and complete address, if different from applicant: Contact Information:
Home () _____
Work () _____
Fax () _____
Cell () _____
e-mail _____
- State Corporation Commission Name and ID Number (if applicable) _____
3. Authorized agent name* and complete mailing address (if applicable): Contact Information:
Sigma Environmental Services, Inc. Home () _____
1513 Sandbridge Road Work () _____
Virginia Beach, VA 23456 Fax () _____
Cell (757) 615-9974
e-mail rharoldjones@aol.com
- State Corporation Commission Name and ID Number (if applicable) 0623459-5

*** If multiple applicants, property owners, and/or agents, each must be listed and each must sign the applicant signature page.**

4. Provide a detailed description of the project in the space below, including the type of project, its dimensions, materials, and method of construction. Be sure to include how the construction site will be accessed and whether tree clearing and/or grading will be required, including the total acreage. If the project requires pilings, please be sure to include the total number, type (e.g. wood, steel, etc), diameter, and method of installation (e.g. hammer, vibratory, jetted, etc). If additional space is needed, provide a separate sheet of paper with the project description.

Install 79' 6" of vinyl bulkhead with two 6-foot return walls, with backfill, as close to MHW line as possible.

Replace and enlarge an existing pier and fixed dock, add a floating pier and gangway. Remove existing free standing piles.

See attached drawings for dimensions, construction materials and specifications.

Construction access will be across the applicants' improved property and/or by barge.

Piles and sheeting will be installed by vibratory hammer.

Part 1 - General Information (continued)

5. Have you obtained a contractor for the project? ___ Yes* No. *If your answer is "Yes" complete the remainder of this question and submit the Applicant's and Contractor's Acknowledgment Form (enclosed)

Contractor's name* and complete mailing address:

Contact Information:

Home () _____

Work () _____

Fax () _____

Cell () _____

email _____

State Corporation Commission Name and ID Number (if applicable) _____

*** If multiple contractors, each must be listed and each must sign the applicant signature page.**

6. List the name, address and telephone number of the newspaper having general circulation in the area of the project. Failure to complete this question may delay local and State processing.

Name and complete mailing address:

Telephone number

The Virginian Pilot
150 Brambleton Ave.
Norfolk, VA 23509

(757) 446-2000 _____

7. Give the following project location information:

Street Address (911 address if available) 2789 Sandpiper Road

Lot/Block/Parcel# Lot 69, Tract B, Section 2, and Adjacent Parcel

Subdivision Sandbridge Beach

City / County Virginia Beach, VA ZIP Code 23456

Latitude and Longitude at Center Point of Project Site (Decimal Degrees):

36.734678 / - 95.939400 (Example: 36.41600/-76.30733)

If the project is located in a rural area, please provide driving directions giving distances from the best and nearest visible landmarks or major intersections. *Note: if the project is in an undeveloped subdivision or property, clearly stake and identify property lines and location of the proposed project. A supplemental map showing how the property is to be subdivided should also be provided.*

From the intersection of Sandbridge Road and Sandpiper Road, turn right and head south on Sandpiper Road. Travel approximately 0.85 miles. The project site at 2789 Sandpiper Road is located on the right (west side) of the road.

8. What are the *primary and secondary purposes of and the need for* the project? For example, the primary purpose may be "to protect property from erosion due to boat wakes" and the secondary purpose may be "to provide safer access to a pier."

The primary purpose of the project is to provide shoreline erosion protection for the owners upland property. The secondary purpose is to enhance waterfront recreational opportunities.

Part 1 - General Information (continued)

9. Proposed use (check one):
 Single user (private, non-commercial, residential)
 Multi-user (community, commercial, industrial, government)
10. Describe alternatives considered and the measures that will be taken to avoid and minimize impacts, to the maximum extent practicable, to wetlands, surface waters, submerged lands, and buffer areas associated with any disturbance (clearing, grading, excavating) during and after project construction. *Please be advised that unavoidable losses of tidal wetlands and/or aquatic resources may require compensatory mitigation.*
- The bulkhead alignment has been staked as close to the average MHW line as practicable to reduce impacts to aquatic resources. A contribution to The Virginia Beach In-Lieu-Fee mitigation fund will be provided to compensate for the unavoidable impacts.
11. Is this application being submitted for after-the-fact authorization for work which has already begun or been completed? Yes No. If yes, be sure to clearly depict the portions of the project which are already complete in the project drawings.
12. Approximate cost of the entire project (materials, labor, etc.): \$ 35,000
Approximate cost of that portion of the project that is channelward of mean low water:
\$ 1,500
13. Completion date of the proposed work: Fall 2022 - _____
14. Adjacent Property Owner Information: List the name and complete **mailing address**, including zip code, of each adjacent property owner to the project. (NOTE: If you own the adjacent lot, provide the requested information for the first adjacent parcel beyond your property line.) Failure to provide this information may result in a delay in the processing of your application by VMRC.

1. Robert W. Fox, 2785 Sandpiper Road, Virginia Beach, Virginia 23456
2. City of Virginia Beach
3. Robert S. Hobbs, 4105 Roenkler Lane, Virginia Beach, Virginia 23455

**Charlotte Humenik
2852 Blue Bill Dr.
2022-WTRA-00028**

Statement indicating whether use of a living shoreline (as defined in §28.2-104.1) for a shoreline management practice is not suitable, including reasons for that determination.

An existing swimming pool and concrete apron is located within 16 feet of the MHW line at its closest point, and averages approximately 18 feet across the width of concrete apron, leaving little room to grade the property to achieve the proper slope for a living shoreline. Additionally, elevation of the back yard and the west end of the pool apron is 7.9 feet. Grading landward along the common property lines would also negatively impact the shoreline stabilization of the adjacent properties. Based on these physical constraints, it is Sigma's professional opinion that construction of a living shoreline on the applicants' property would not be a structurally nor environmentally suitable alternative for this lot.

R. Harold Jones, SPWS, Emeritus
Sigma Environmental Services, Inc.

Part 2 - Signatures

1. Applicants and property owners (if different from applicant).

NOTE: REQUIRED FOR ALL PROJECTS

PRIVACY ACT STATEMENT: The Department of the Army permit program is authorized by Section 10 of the Rivers and Harbors Act of 1899, Section 404 of the Clean Water Act, and Section 103 of the Marine Protection Research and Sanctuaries Act of 1972. These laws require that individuals obtain permits that authorize structures and work in or affecting navigable waters of the United States, the discharge of dredged or fill material into waters of the United States, and the transportation of dredged material for the purpose of dumping it into ocean waters prior to undertaking the activity. Information provided in the Joint Permit Application will be used in the permit review process and is a matter of public record once the application is filed. Disclosure of the requested information is voluntary, but it may not be possible to evaluate the permit application or to issue a permit if the information requested is not provided.

CERTIFICATION: I am hereby applying for all permits typically issued by the DEQ, VMRC, USACE, and/or Local Wetlands Boards for the activities I have described herein. I agree to allow the duly authorized representatives of any regulatory or advisory agency to enter upon the premises of the project site at reasonable times to inspect and photograph site conditions, both in reviewing a proposal to issue a permit and after permit issuance to determine compliance with the permit. In addition, I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

William Dingler

Applicant's Legal Name (printed/typed)

William Dingler

Applicant's Signature

1/24/2022

Date

Mary Dingler

(Use if more than one applicant)

Mary Dingler

(Use if more than one applicant)

Property Owner's Legal Name (printed/typed)
(If different from Applicant)

(Use if more than one owner)

Property Owner's Signature

(Use if more than one owner)

Date

Part 2 – Signatures (continued)

2. Applicants having agents (if applicable)

CERTIFICATION OF AUTHORIZATION

I (we), Mr. & Mrs. Dingler, hereby certify that I (we) have authorized Sigma Environmental Services, Inc.
(Applicant's legal name(s)) (Agent's name(s))

to act on my behalf and take all actions necessary to the processing, issuance and acceptance of this permit and any and all standard and special conditions attached.

We hereby certify that the information submitted in this application is true and accurate to the best of our knowledge.

[Signature]
(Agent's Signature)

(Use if more than one agent)

2-4-2022
(Date)

William Dingler
(Applicant's Signature)

Mary Dingler
(Use if more than one applicant)

1/24/2022
(Date)

3. Applicant's having contractors (if applicable)

CONTRACTOR ACKNOWLEDGEMENT

I (we), _____, have contracted _____
(Applicant's legal name(s)) (Contractor's name(s))
to perform the work described in this Joint Permit Application, signed and dated _____.

We will read and abide by all conditions set forth in all Federal, State and Local permits as required for this project. We understand that failure to follow the conditions of the permits may constitute a violation of applicable Federal, state and local statutes and that we will be liable for any civil and/or criminal penalties imposed by these statutes. In addition, we agree to make available a copy of any permit to any regulatory representative visiting the project to ensure permit compliance. If we fail to provide the applicable permit upon request, we understand that the representative will have the option of stopping our operation until it has been determined that we have a properly signed and executed permit and are in full compliance with all terms and conditions.

Contractor's name or name of firm

Contractor's or firms address

Contractor's signature and title

Contractor's License Number

Applicant's signature

(use if more than one applicant)

Date

Part 3 – Appendices

Please complete and submit the appendix questions applicable to your project, and attach the required vicinity map(s) and drawings to your application. If an item does not apply to your project, please write "N/A" in the space provided.

Appendix A: (TWO PAGES) Projects for Access to the water such as private and community piers, boathouses, marinas, moorings, and boat ramps. Answer all questions that apply.

1. Briefly describe your proposed project.

Replace and enlarge an existing pier and an 8' X 10' 5" dock, with an 10' X 20' dock. Add a 3' X 12' gangway and 6' X 12' floating dock to the northern end of the fixed dock. Remove existing free standing piles.

2. For private, noncommercial piers:

Do you have an existing pier on your property? Yes No

If yes, will it be removed? Yes No

Is your lot platted to the mean low water shoreline? Yes No

What is the overall length of the proposed structure? 19 feet.

Channelward of Mean High Water? 19 feet.

Channelward of Mean Low Water? 4 feet.

What is the area of the piers and platforms that will be constructed over

Tidal non-vegetated wetlands 342 square feet.

Tidal vegetated wetlands 92 square feet.

Submerged lands 94 square feet.

What is the total size of any and all L- or T-head platforms? 272 sq. ft.

For boathouses, what is the overall size of the roof structure? N/A sq. ft.

Will your boathouse have sides? Yes No.

NOTE: All proposals for piers, boathouses and shelter roofs must be reviewed by the Virginia Marine Resources Commission (Commission or VMRC), however, pursuant to § [28.2-1203](#) A 5 of the Code of Virginia a VMRC permit may not be required for such structures (except as required by subsection D of § [28.2-1205](#) for piers greater than 100 feet in length involving commercially productive leased oyster or clam grounds), provided that (i) the piers do not extend beyond the navigation line or private pier lines established by the Commission or the United States Army Corps of Engineers (USACE), (ii) the piers do not exceed six feet in width and finger piers do not exceed five feet in width, (iii) any L or T head platforms and appurtenant floating docking platforms do not exceed, in the aggregate, 400 square feet, (iv) if prohibited by local ordinance open-sided shelter roofs or gazebo-type structures shall not be placed on platforms as described in clause (iii), but may be placed on such platforms if not prohibited by local ordinance, and (v) the piers are determined not to be a navigational hazard by the Commission. Subject to any applicable local ordinances, such piers may include an attached boat lift and an open-sided roof designed to shelter a single boat slip or boat lift. In cases in which open-sided roofs designed to shelter a single boat, boat slip or boat lift will exceed 700 square feet in coverage or the open-sided shelter roofs or gazebo structures exceed 400 square feet, and in cases in which an adjoining property owner objects to a proposed roof structure, permits shall be required as provided in § [28.2-1204](#).

Part 3 – Appendices (continued)

3. For **USACE permits**, in cases where the proposed pier will encroach beyond one fourth the waterway width (as determined by measuring mean high water to mean high water or ordinary high water mark to ordinary high water mark), the following information must be included before the application will be considered complete. For an application to be considered complete:
- a. The USACE MAY require depth soundings across the waterway at increments designated by the USACE project manager. Typically 10-foot increments for waterways less than 200 feet wide and 20-foot increments for waterways greater than 200 feet wide with the date and time the measurements were taken and how they were taken (e.g., tape, range finder, etc.).
 - b. The applicant MUST provide a justification as to purpose if the proposed work would extend a pier greater than one-fourth of the distance across the open water measured from mean high water or the channelward edge of the wetlands.
 - c. The applicant MUST provide justification if the proposed work would involve the construction of a pier greater than five feet wide or less than four feet above any wetland substrate.
4. Provide the type, size, and registration number of the vessel(s) to be moored at the pier or mooring buoy.

Type	Length	Width	Draft	Registration #
Kayaks & canoes				

5. For **Marinas, Commercial Piers, Governmental Piers, Community Piers and other non-private piers**, provide the following information:
- A) Have you obtained approval for sanitary facilities from the Virginia Department of Health? _____ (required pursuant to Section 28.2-1205 C of the Code of Virginia).
 - B) Will petroleum products or other hazardous materials be stored or handled at your facility? _____.
 - C) Will the facility be equipped to off-load sewage from boats? _____.
 - D) How many wet slips are proposed? _____. How many are existing? _____.
 - E) What is the area of the piers and platforms that will be constructed over
 - Tidal non-vegetated wetlands _____ square feet
 - Tidal vegetated wetlands _____ square feet
 - Submerged lands _____ square feet
6. For **boat ramps**, what is the overall length of the structure? _____ feet.
- From Mean High Water? _____ feet.
- From Mean Low Water? _____ feet.

Note: drawings must include the construction materials, method of installation, and all dimensions. If tending piers are proposed, complete the pier portion.

Note: If dredging or excavation is required, you must complete the Standard Joint Point Permit application.

Part 3 – Appendices (continued)

Appendix B: Projects for Shoreline Stabilization in tidal wetlands, tidal waters and dunes/beaches including riprap revetments and associated backfill, marsh toe stabilization, bulkheads and associated backfill, breakwaters, beach nourishment, groins, jetties, and living shoreline projects. Answer all questions that apply. Please provide any reports provided from the Shoreline Erosion Advisory Service or VIMS.

NOTE: It is the policy of the Commonwealth that living shorelines are the preferred alternative for stabilizing tidal shorelines (Va. Code § 28.2-104.1). **Information on non-structural, vegetative alternatives (i.e., Living Shoreline) for shoreline stabilization is available at http://ccrm.vims.edu/coastal_zone/living_shorelines/index.html.**

1. Describe each **revetment, bulkhead, marsh toe, breakwater, groin, jetty, other structure, or living shoreline project** separately in the space below. Include the overall length in linear feet, the amount of impacts in acres, and volume of associated backfill below mean high water and/or ordinary high water in cubic yards, as applicable:

Install 79' 6" linear feet of vinyl bulkhead with two 6-foot return walls, with backfill, as close to MHW line as possible. A majority of the alignment will traverse through uplands.

2. What is the maximum encroachment channelward of mean high water? 1 feet.
Channelward of mean low water? 0 feet.
Channelward of the back edge of the dune or beach? N/A feet.

3. Please calculate the square footage of encroachment over:

• Vegetated wetlands	<u>2</u> square feet
• Non-vegetated wetlands	<u>2</u> square feet
• Subaqueous bottom	<u>0</u> square feet
• Dune and/or beach	<u>N/A</u> square feet

4. For bulkheads, is any part of the project maintenance or replacement of a previously authorized, currently serviceable, existing structure? Yes X No.

If yes, will the construction of the new bulkhead be no further than two (2) feet channelward of the existing bulkhead? Yes No.

If no, please provide an explanation for the purpose and need for the additional encroachment.

Part 3 – Appendices (continued)

5. Describe the type of construction and **all** materials to be used, including source of backfill material, if applicable (e.g., vinyl sheet-pile bulkhead, timber stringers and butt piles, 100% sand backfill from upland source; broken concrete core material with Class II quarry stone armor over filter cloth).

NOTE: Drawings must include construction details, including dimensions, design and all materials, including fittings if used.

See Sheet 3 of 4 for Material specifications and schedule.

Backfill = 18 cu yds - 100% sand from upland source.

6. If using stone, broken concrete, etc. for your structure(s), what is the average weight of the:

Core (inner layer) material _____ pounds per stone Class size _____

Armor (outer layer) material _____ pounds per stone Class size _____

7. For **beach nourishment**, including that associated with breakwaters, groins or other structures, provide the following:

- Volume of material
_____ cubic yards channelward of mean low water
_____ cubic yards landward of mean low water
_____ cubic yards channelward of mean high water
_____ cubic yards landward of mean high water

- Area to be covered
_____ square feet channelward of mean low water
_____ square feet landward of mean low water
_____ cubic yards channelward of mean high water
_____ cubic yards landward of mean high water

- Source of material, composition (e.g. 90% sand, 10% clay): _____
- Method of transportation and placement: _____

- Describe any proposed vegetative stabilization measures to be used, including planting schedule, spacing, monitoring, etc. Additional guidance is available at <http://www.vims.edu/about/search/index.php?q=planting+guidelines>:

**ENGINEER/SURVEYOR'S INSPECTION STATEMENT
FOR
WATERFRONT CONSTRUCTION/COASTAL PRIMARY SAND DUNE PROJECTS**

REVISED 10-09-03

PROJECT LOCATION: 2789 SANDPIPER ROAD

APPLICANT'S NAME: WILLIAM + MARY DINGLER

APPLICANT'S ADDRESS: 9336 WILLIES WAY TRAIL
MECHANICSVILLE, VA 23116

ENGINEER OF RECORD: JOHN W. BLAKE, II

PROFESSIONAL ENGINEER/ SURVEYOR
CERTIFYING PROJECT
CONSTRUCTION:

JOHN W. BLAKE, II

AT THE COMPLETION OF A WATERFRONT CONSTRUCTION/COASTAL PRIMARY SAND DUNE PROJECT IT IS REQUIRED THAT A CERTIFICATION BY THE APPROVING ENGINEER/SURVEYOR BE SUBMITTED, STATING THAT THEY HAVE INSPECTED THE REFERENCED PROJECT SITE AND TO THE BEST OF THEIR KNOWLEDGE, THE WATERFRONT/COASTAL PRIMARY SAND DUNE PROJECT HAS BEEN CONSTRUCTED IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS. SUCH CERTIFICATION SHALL BE SEALED BY THE ENGINEER OR SURVEYOR CERTIFYING THE CONSTRUCTION.

THIS FORM MUST BE COMPLETED AND RETURNED TO THE DEPARTMENT OF PLANNING, WATERFRONT OPERATIONS OFFICE WITH ALL APPLICATIONS FOR WATERFRONT CONSTRUCTION/COASTAL PRIMARY SAND DUNE PROJECTS AT THE TIME OF SUBMITTAL.

SIGNATURE OF ENGINEER/SURVEYOR CERTIFYING CONSTRUCTION

3-10-22

DATE

TYPE OR PRINT NAME OF ENGINEER/SURVEYOR CERTIFYING CONSTRUCTION

JOHN W. BLAKE, II

SIGNATURE OF APPLICANT

William + Mary Dinger

3/10/22

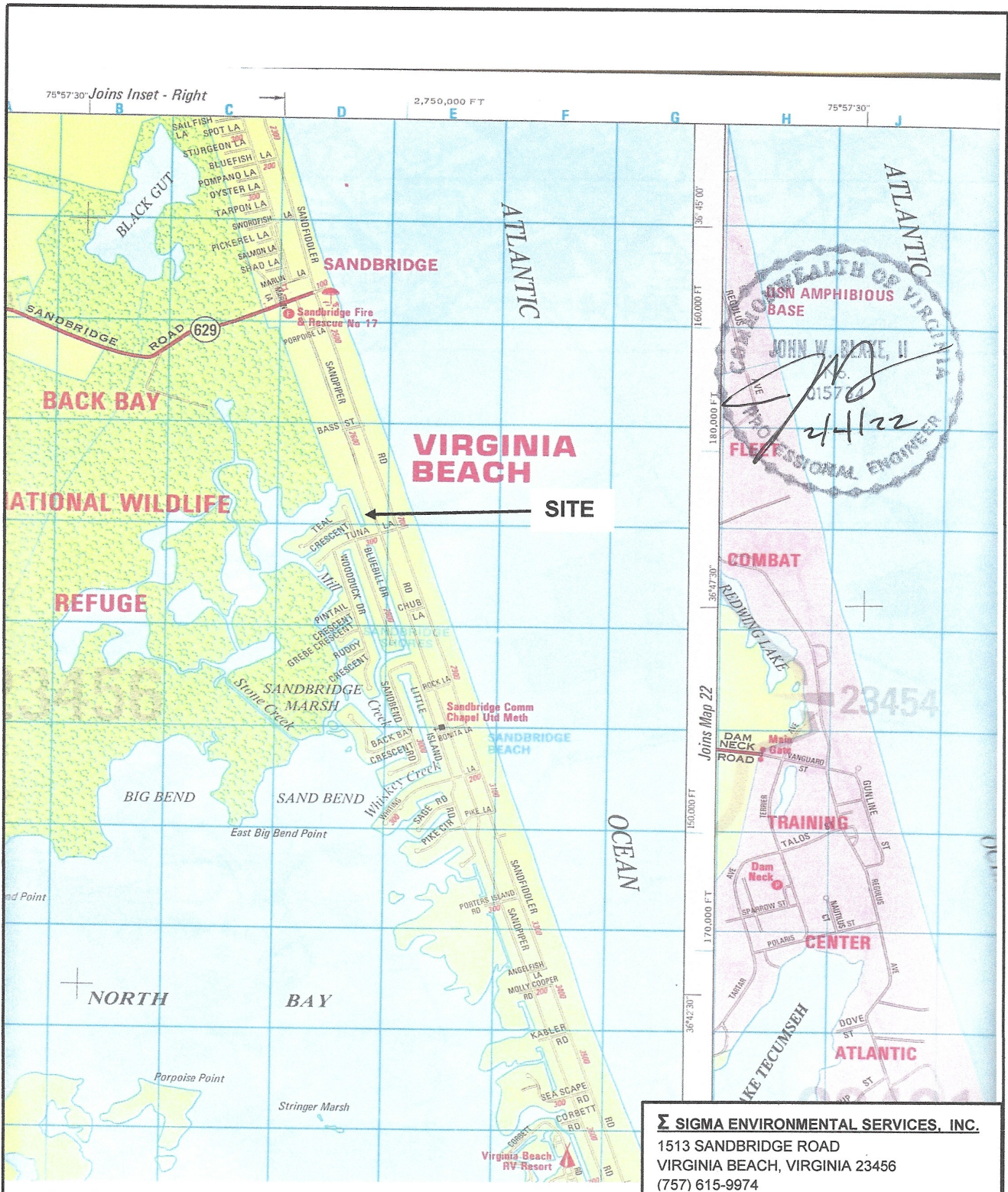
DATE

SIGNATURE OF COASTAL ZONE ADMINISTRATOR

DATE

ANY ALTERATION OF THIS FORM OR ITS ENDORSEMENTS WITHOUT THE EXPRESS CONSENT FROM THE ORIGINATOR SHALL INVALIDATE THIS INSTRUMENT.

APPLICATION NO. _____



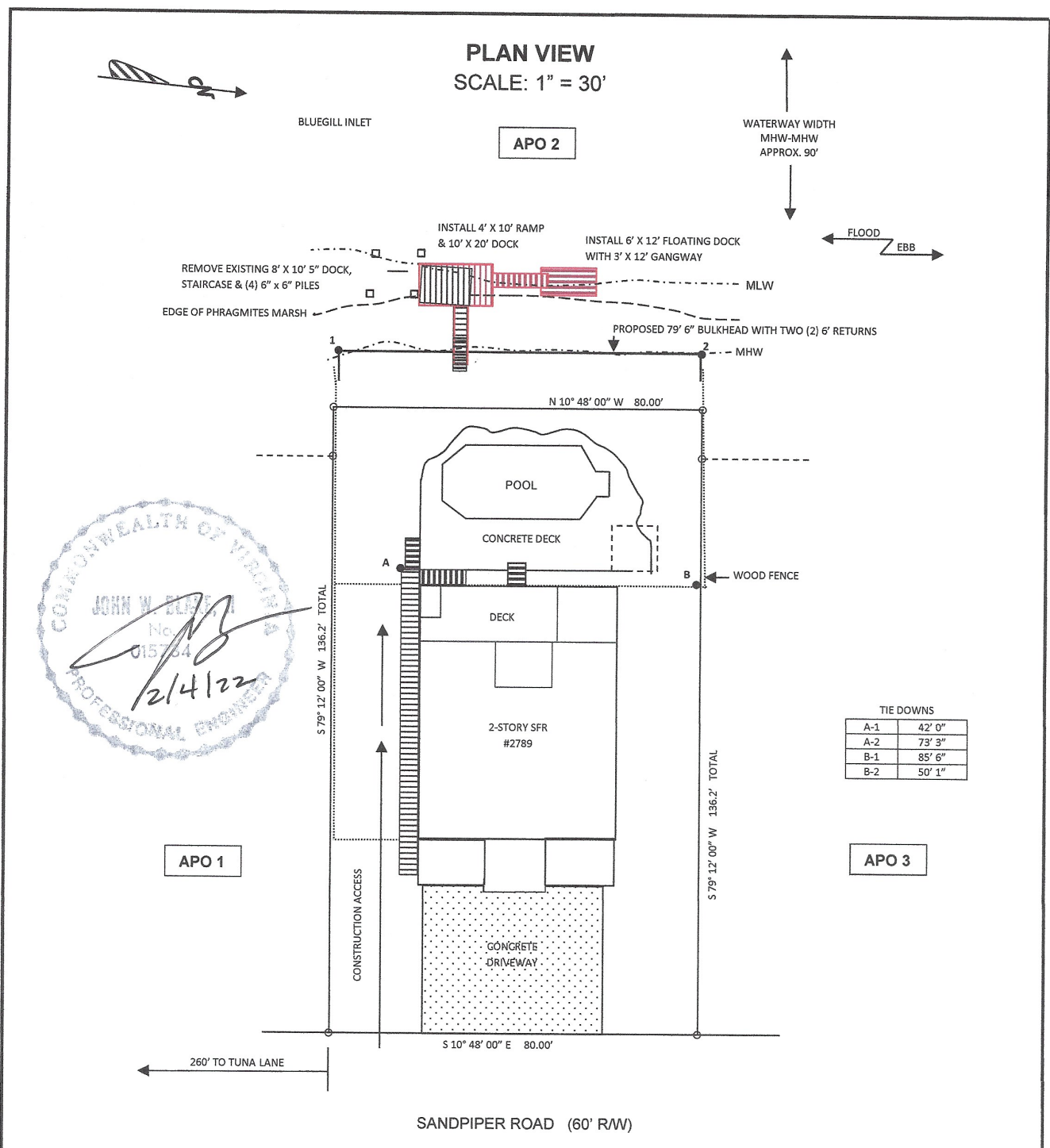
COMMONWEALTH OF VIRGINIA
 JOHN W. DIXIE, II
 No. 01574
 2/4/22
 FLEET
 PROFESSIONAL ENGINEER

SIGMA ENVIRONMENTAL SERVICES, INC.
 1513 SANDBRIDGE ROAD
 VIRGINIA BEACH, VIRGINIA 23456
 (757) 615-9974

APOs:
 1. ROBERT HOBBS
 2. CITY OF VIRGINIA BEACH
 3. ROBERT W. FOX

LOCATION: BLUEGILL INLET
FOR: WILLIAM & MARY DINGLER
AT: 2789 SANDPIPER ROAD
 VIRGINIA BEACH, VA 23456

PROJECT: BULKHEAD, WALKWAY RAMP,
 FIXED DOCK, FLOATING DOCK, GANGWAY
DATUM: 0.00' MLW = -1.3' NAVD 1988
DATE: FEB. 4, 2022 SHEET 1 OF 4



LOT 69 SECTION 2 TRACT B
& ADJACENT PARCEL
SANDBRIDGE BEACH

Σ SIGMA ENVIRONMENTAL SERVICES, INC.
1513 SANDBRIDGE ROAD
VIRGINIA BEACH, VIRGINIA 23456
(757) 615-9974

APOs:

- ROBERT S. HOBBS
- CITY OF VIRGINIA BEACH
- ROBERT W. FOX

WATERWAY: BLUEGILL INLET

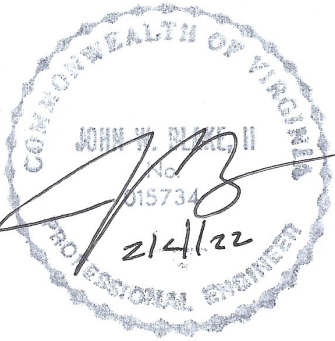
FOR: WILLIAM & MARY DINGLER
AT: 2789 SANDPIPER ROAD
VIRGINIA BEACH, VA 23456

PROJECT: BULKHEAD, WALKWAY RAMP,
FIXED DOCK, FLOATING DOCK, GANGWAY

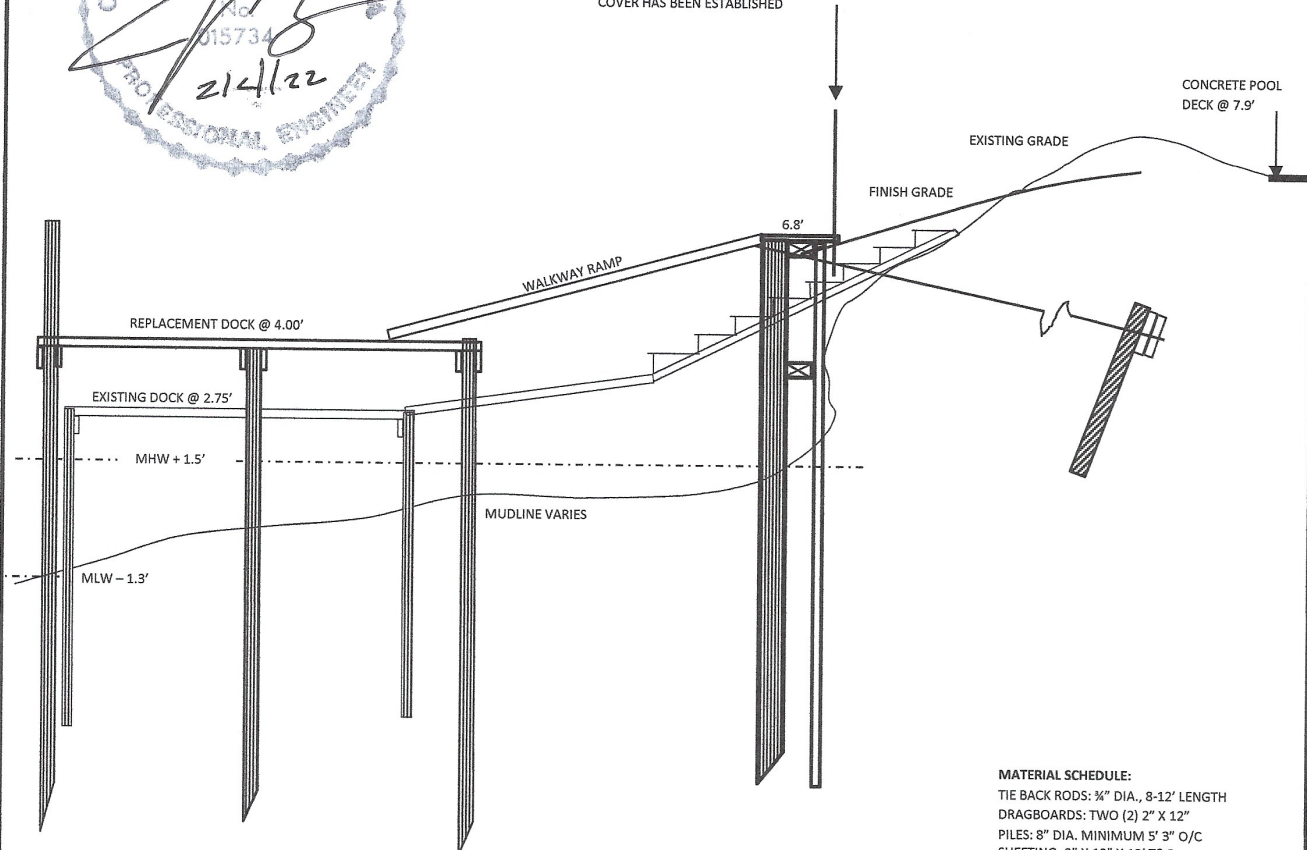
DATUM: 0.00' MLW = -1.3' NAVD 1988

DATE: FEB. 4, 2022 SHEET 2 OF 4

**CROSS SECTION
BULKHEAD & FIXED DOCK
SCALE: 1" = 4'**



- 36" WIRE REINFORCED TEMP. E & S CONTROL BARRIER
- STAKED AND TRENCHED - INSTALL PRIOR TO BACKFILLING
- MAINTAIN ON DAILY BASIS UNTIL PERMANENT VEGETATIVE COVER HAS BEEN ESTABLISHED



MATERIAL SPECIFICATIONS:
 FRAMING: CCA 2.5# PCF (MLP-88)
 DEADMAN: CCA 2.5# (MP-88)
 TOP PLATE: 0.4# PCF (LP-22)
 HARDWARE: HOT DIPPED GALVANIZED (ASTM-A153)

MATERIAL SCHEDULE:
 TIE BACK RODS: 3/4" DIA., 8-12' LENGTH
 DRAGBOARDS: TWO (2) 2" X 12"
 PILES: 8" DIA. MINIMUM 5' 3" O/C
 SHEETING: 2" X 12" X 12' T&G
 ALTERNATE SHEETING: VINYL SCMI-SG-330
 WALES: 6" X 6" ON EDGE CONTINUOUS - STAGGERED JOINTS - BOLDED
 TOP CAP: TWIN 2" X 10" UV PROTECTED FILTER CLOTH
 1" WEEP HOLES 2' O/C 4" BELOW MHW

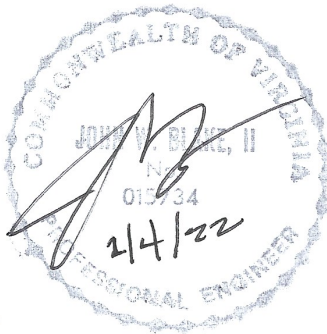
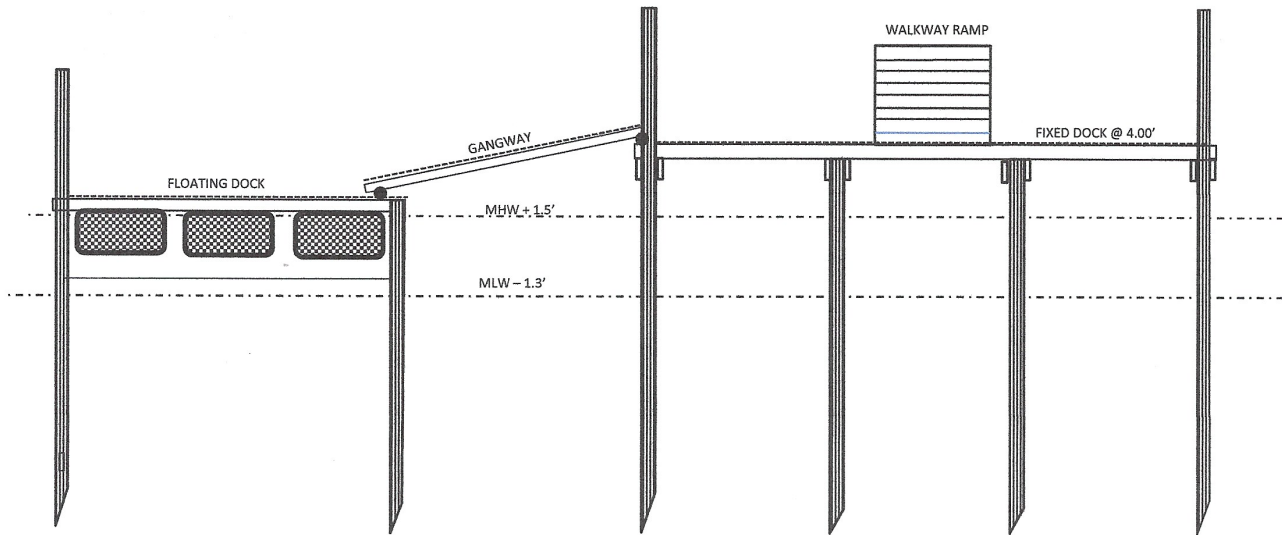
SIGMA ENVIRONMENTAL SERVICES, INC.
 1513 SANDBRIDGE ROAD
 VIRGINIA BEACH, VIRGINIA 23456
 (757) 615-9974

APOs:
 1. ROBERT HOBBS
 2. CITY OF VIRGINIA BEACH
 3. ROBERT W. FOX

LOCATION: BLUEGILL INLET
FOR: WILLIAM & MARY DINGLER
AT: 2789 SANDPIPER ROAD
VIRGINIA BEACH, VA 23456

PROJECT: BULKHEAD, WALKWAY RAMP, FIXED DOCK, FLOATING DOCK, GANGWAY
DATUM: 0.00' MLW = -1.3' NAVD 1988
DATE: FEB. 4, 2022 SHEET 3 OF 4

FRONT VIEW
SCALE: 1" = 6'



MATERIAL SCHEDULE:
 TIE BACK RODS: 3/4" DIA., 8-12' LENGTH
 DRAGBOARDS: TWO (2) 2" X 12"
 PILES: 8" DIA. MINIMUM 5' 3" O/C
 SHEETING: 2" X 12" X 12' T&G
 ALTERNATE SHEETING: VINYL SCMI-SG-330
 WALES: 6" X 6" ON EDGE
 CONTINUOUS - STAGGERED JOINTS - BOLDED
 TOP CAP: TWIN 2" X 10"
 UV PROTECTED FILTER CLOTH
 1" WEEP HOLES 2' O/C 4" BELOW MHW

MATERIAL SPECIFICATIONS:
 FRAMING: CCA 2.5# PCF (MLP-88)
 DEADMAN: CCA 2.5# (MP-88)
 TOP PLATE: 0.4# PCF (LP-22)
 HARDWARE: HOT DIPPED GALVANIZED (ASTM-A153)

SIGMA ENVIRONMENTAL SERVICES, INC.
 1513 SANDBRIDGE ROAD
 VIRGINIA BEACH, VIRGINIA 23456
 (757) 615-9974

APOs:
 1. ROBERT HOBBS
 2. CITY OF VIRGINIA BEACH
 3. ROBERT W. FOX

LOCATION: BLUEGILL INLET
FOR: WILLIAM & MARY DINGLER
 AT: 2789 SANDPIPER ROAD
 VIRGINIA BEACH, VA 23456

PROJECT: BULKHEAD, WALKWAY RAMP, FIXED DOCK, FLOATING DOCK, GANGWAY
DATUM: 0.00' MLW = -1.3' NAVD 1988
DATE: FEB. 4, 2022 SHEET 4 OF 4

February 4, 2022

Robert W. Fox
2785 Sandpiper Road
Virginia Beach, Virginia 23456

**RE: Proposed Waterfront Improvements
At: 2789 Sandpiper Road
Virginia Beach, Virginia 23456**

Dear Mr. Fox:

Sigma Environmental Services, Inc. has been retained by Mr. and Mrs. William Dinger to obtain all necessary permits and approvals for installation of a bulkhead along their shoreline, construct a replacement pier and enlarge their existing dock, add a gangway and floating dock, and remove existing freestanding mooring piles from their property located at 2789 Sandpiper Road, Virginia Beach, Virginia. This letter is to notify you of the improvements proposed by Mr. and Mrs. Dinger and requests your input on the project.

The attached plan view drawing reflects the location and alignment of the proposed improvements. I have also enclosed an Adjacent Property Owner's Acknowledgement Form. Please complete the form and return it in the enclosed stamped envelope addressed to the Virginia Marine Resources Commission.

Should you have any questions regarding this project, please feel free to call me at business cell (757) 615-9974. Thank you for your assistance in this matter.

Sincerely,



R. Harold Jones, PWS, Emeritus
President

CC: Mr. & Mrs. Dinger

1513 SANDBRIDGE ROAD, VIRGINIA BEACH, VIRGINIA 23456
Business Cell (757) 615-9974 fax (757) 426-5145

Part 2 – Signatures (continued)

ADJACENT PROPERTY OWNER'S ACKNOWLEDGEMENT FORM

I (we), Robert W. Fox, own land next to (across the water
(Print adjacent/nearby property owner's name)

from/on the same cove as) the land of Mr. & Mrs. William Dingler.
(Print applicant's name(s))

I have reviewed the applicant's project drawings dated Feb 4, 2022
(Date)

to be submitted for all necessary federal, state and local permits.

I HAVE NO COMMENT _____ ABOUT THE PROJECT.

I DO NOT OBJECT _____ TO THE PROJECT.

I OBJECT _____ TO THE PROJECT.

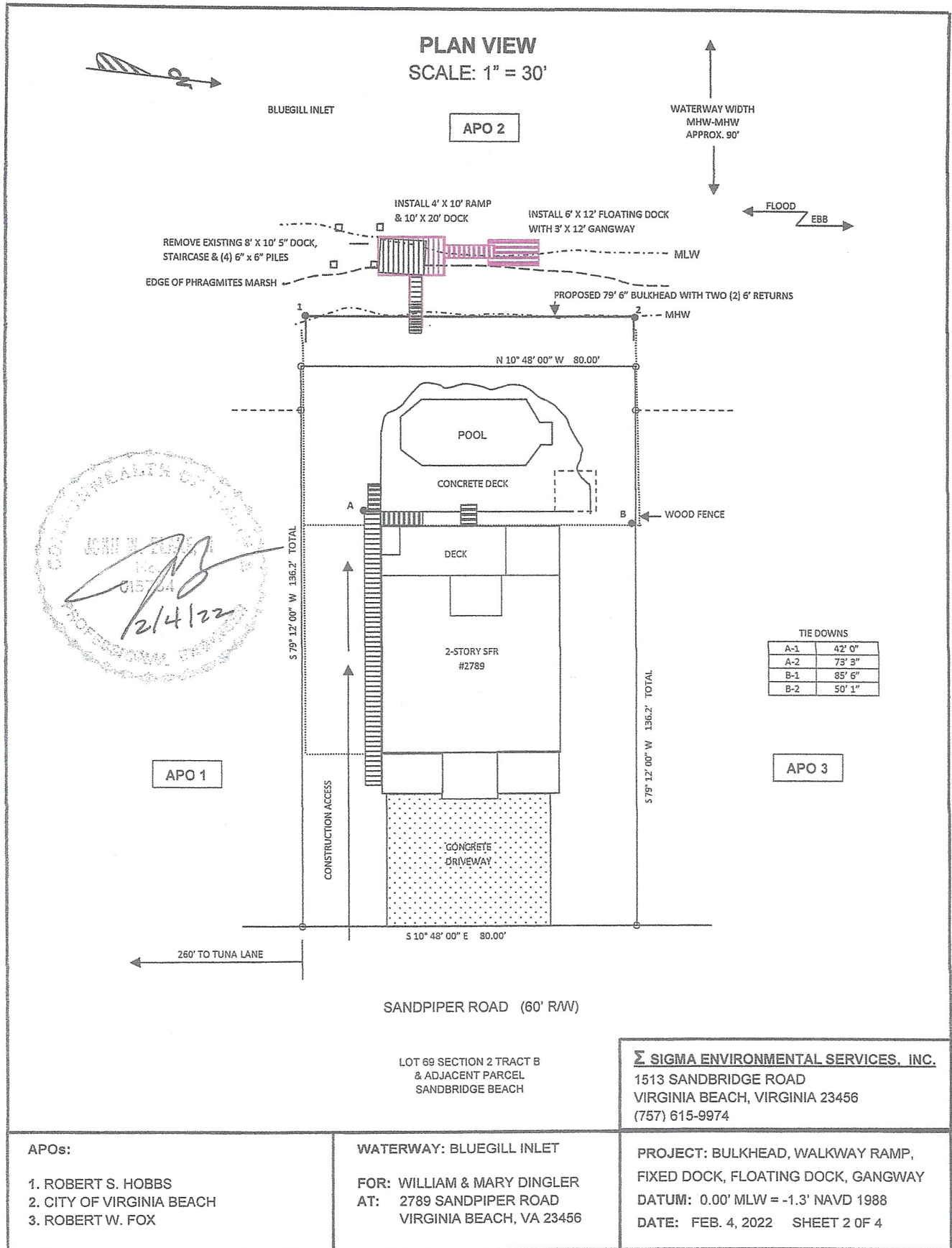
The applicant has agreed to contact me for additional comments if the proposal changes prior to construction of the project.

(Before signing this form be sure you have checked the appropriate option above).

Adjacent/nearby property owner's signature(s)

Date

Note: If you object to the proposal, the reason(s) you oppose the project must be submitted in writing to VMRC. An objection will not necessarily result in denial of the project; however, valid complaints will be given full consideration during the permit review process.



APOs:

1. ROBERT S. HOBBS
2. CITY OF VIRGINIA BEACH
3. ROBERT W. FOX

WATERWAY: BLUEGILL INLET

FOR: WILLIAM & MARY DINGLER

AT: 2789 SANDPIPER ROAD
VIRGINIA BEACH, VA 23456

SIGMA ENVIRONMENTAL SERVICES, INC.
1513 SANDBRIDGE ROAD
VIRGINIA BEACH, VIRGINIA 23456
(757) 615-9974

PROJECT: BULKHEAD, WALKWAY RAMP, FIXED DOCK, FLOATING DOCK, GANGWAY

DATUM: 0.00' MLW = -1.3' NAVD 1988

DATE: FEB. 4, 2022 SHEET 2 OF 4

February 4, 2022

Robert S. Hobbs
4105 Roenkler Lane,
Virginia Beach, Virginia 23455

**RE: Proposed Waterfront Improvements
At: 2789 Sandpiper Road
Virginia Beach, Virginia 23456**

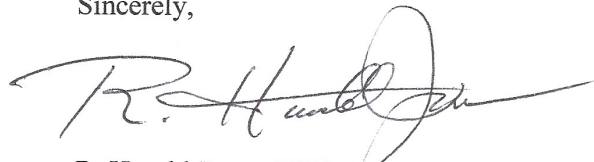
Dear Mr. Hobbs:

Sigma Environmental Services, Inc. has been retained by Mr. and Mrs. William Dingler to obtain all necessary permits and approvals for installation of a bulkhead along their shoreline, construct a replacement pier and enlarge their existing dock, add a gangway and floating dock, and remove existing freestanding mooring piles from their property located at 2789 Sandpiper Road, Virginia Beach, Virginia. This letter is to notify you of the improvements proposed by Mr. and Mrs. Dingler and requests your input on the project.

The attached plan view drawing reflects the location and alignment of the proposed improvements. I have also enclosed an Adjacent Property Owner's Acknowledgement Form. Please complete the form and return it in the enclosed stamped envelope addressed to the Virginia Marine Resources Commission.

Should you have any questions regarding this project, please feel free to call me at business cell (757) 615-9974. Thank you for your assistance in this matter.

Sincerely,



R. Harold Jones, PWS, Emeritus
President

CC: Mr. & Mrs. Dingler

1513 SANDBRIDGE ROAD, VIRGINIA BEACH, VIRGINIA 23456
Business Cell (757) 615-9974 fax (757) 426-5145

Part 2 – Signatures (continued)

ADJACENT PROPERTY OWNER'S ACKNOWLEDGEMENT FORM

I (we), Robert S. Hobbs, own land next to (across the water
(Print adjacent/nearby property owner's name)

from/on the same cove as) the land of Mr. & Mrs. William Dingler.
(Print applicant's name(s))

I have reviewed the applicant's project drawings dated Feb. 4, 2022
(Date)

to be submitted for all necessary federal, state and local permits.

I HAVE NO COMMENT _____ ABOUT THE PROJECT.

I DO NOT OBJECT _____ TO THE PROJECT.

I OBJECT _____ TO THE PROJECT.

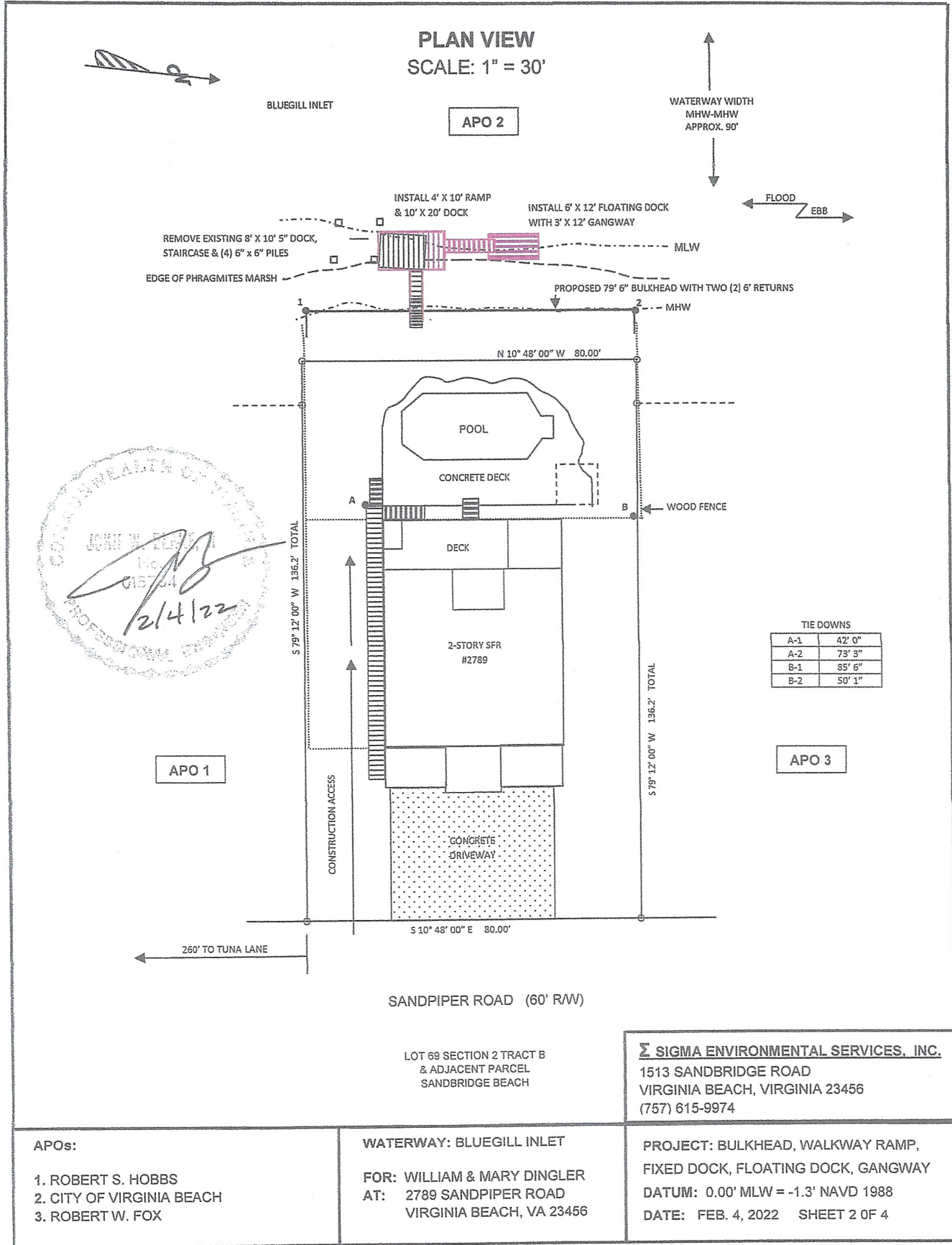
The applicant has agreed to contact me for additional comments if the proposal changes prior to construction of the project.

(Before signing this form, be sure you have checked the appropriate option above).

Adjacent/nearby property owner's signature(s)

Date

Note: If you object to the proposal, the reason(s) you oppose the project must be submitted in writing to VMRC. An objection will not necessarily result in denial of the project; however, valid complaints will be given full consideration during the permit review process.



- YES NO (15) Will the proposed structure(s) be located outside a USACE Navigation and Flood Risk Management project area?
- YES NO (16) Will the proposed structure(s) be located outside of any Designated Trout Waters?
- YES NO N/A (17) If the proposed structure(s) includes flotation units, will the units be made of materials that will not become waterlogged or sink if punctured?
- YES NO N/A (18) If the proposed structure(s) includes flotation units, will the floating sections be braced so they will not rest on the bottom during periods of low water?
- YES NO (19) Is the proposed structure(s) made of suitable materials and practical design so as to reasonably ensure a safe and sound structure?
- YES NO (20) Will the proposed structure(s) be located on the property in accordance with the local zoning requirements?
- YES NO N/A (21) If the proposed structure(s) includes a device used for shellfish gardening, will the device be attached directly to a pier and limited to a total of 160 square feet?
- YES NO N/A (22) If the proposed structure(s) includes a device used for shellfish gardening, does the permittee recognize this RP does not negate their responsibility to obtain an oyster gardening permit (General Permit #3) from Virginia Marina Resources Commission's Habitat Management Division?
- YES NO (23) Does the permittee recognize this RP does not authorize any dredging or filling of waters of the United States (including wetlands) and does not imply that future dredging proposals will be approved by the Corps?
- YES NO (24) Does the permittee understand that by accepting 18-RP-17, the permittee accepts all of the terms and conditions of the permit, including the limits of Federal liability contained in the 18-RP-17 enclosure? Does the permittee acknowledge that the structures permitted under 18-RP-17 may be exposed to waves caused by passing vessels and that the permittee is solely responsible for the integrity of the structures permitted under 18-RP-17 and the exposure of such structures and vessels moored to such structures to damage from waves? Does the permittee accept that the United States is not liable in any way for such damage and that it shall not seek to involve the United States in any actions or claims regarding such damage?

IF YOU HAVE ANSWERED "NO" TO ANY OF THE QUESTIONS ABOVE, REGIONAL PERMIT 17 (18-RP-17) DOES NOT APPLY AND YOU ARE REQUIRED TO OBTAIN WRITTEN AUTHORIZATION FROM THE CORPS PRIOR TO PERFORMING THE WORK.

IF YOU HAVE ANSWERED "YES" (OR "N/A", WHERE APPLICABLE) TO ALL OF THE QUESTIONS ABOVE, YOU ARE IN COMPLIANCE WITH REGIONAL PERMIT 17 (18-RP-17). PLEASE SIGN BELOW, ATTACH, AND SUBMIT THIS CHECKLIST WITH YOUR COMPLETED JOINT PERMIT APPLICATION (JPA). THIS SIGNED CERTIFICATE SERVES AS YOUR LETTER OF AUTHORIZATION FROM THE CORPS. YOU WILL NOT RECEIVE ANY OTHER WRITTEN AUTHORIZATION FROM THE CORPS; HOWEVER, YOU MAY NOT PROCEED WITH CONSTRUCTION UNTIL YOU HAVE OBTAINED ALL OTHER NECESSARY STATE AND LOCAL PERMITS.

I CERTIFY THAT I HAVE READ AND UNDERSTAND ALL CONDITIONS OF THE REGIONAL PERMIT 17 (18-RP-17), DATED SEPTEMBER 2018, ISSUED BY THE US ARMY CORPS OF ENGINEERS, NORFOLK DISTRICT REGULATORY BRANCH (CENAO-WRR), NORFOLK, VIRGINIA.



 Signature of Property Owner(s) or Agent

Date 2-4-2022

Proposed work to be located at:
2789 Sandpiper Rd

Virginia Beach

VMRC Number: _____

4. 2022-WTRA-00037

Charlotte Humenik Revocable Trust [Applicant & Owner]

To construct a bulkhead and dock involving wetlands

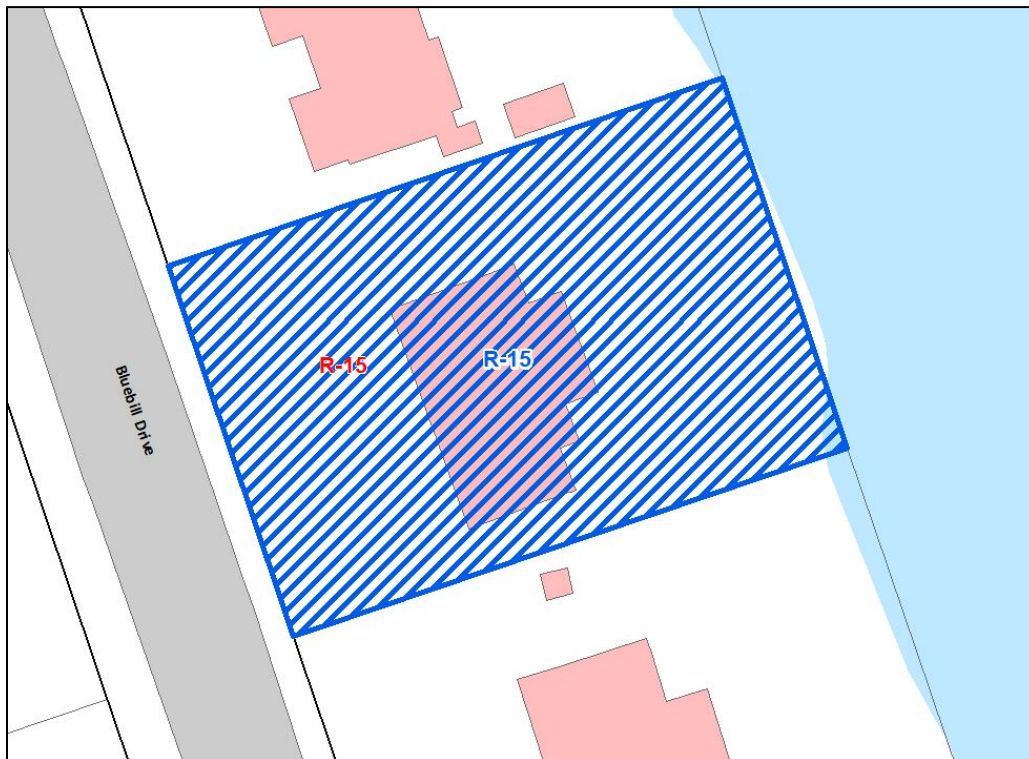
2852 Bluebill Dr

(GPIN 2433-35-0169)

Waterway – Man-made canal to North Bay

Subdivision – Sandbridge

City Council District: District 7, formerly Princess Anne



The disclosures contained in this form are necessary to inform public officials who may vote on the application as to whether they have a conflict of interest under Virginia law. The completion and submission of this form is required for all applications that pertain to City real estate matters or to the development and/or use of property in the City of Virginia Beach requiring action by the City Council or a City board, commission or other body.

Applicant Disclosure

Applicant Name Charlotte Humenik Revokable Trust

Does the applicant have a representative? **Yes** **No**

- If **yes**, list the name of the representative.
Sigma Environmental Services, Inc.

Is the applicant a corporation, partnership, firm, business, trust or an unincorporated business? **Yes** **No**

- If **yes**, list the names of all officers, directors, members, trustees, etc. below. (Attach a list if necessary)
Charlotte Humenik - Trustee

- If **yes**, list the businesses that have a parent-subsiary¹ or affiliated business entity² relationship with the applicant. (Attach a list if necessary)

¹ "Parent-subsiary relationship" means "a relationship that exists when one corporation directly or indirectly owns shares possessing more than 50 percent of the voting power of another corporation." See State and Local Government Conflict of Interests Act, VA. Code § 2.2-3101.

² "Affiliated business entity relationship" means "a relationship, other than parent-subsiary relationship, that exists when (i) one business entity has a controlling ownership interest in the other business entity, (ii) a controlling owner in one entity is also a controlling owner in the other entity, or (iii) there is shared management or control between the business entities. Factors that should be considered in determining the existence of an affiliated business entity relationship include that the same person or substantially the same person own or manage the two entities; there are common or commingled funds or assets; the business entities share the use of the same offices or employees or otherwise share activities, resources or personnel on a regular basis; or there is otherwise a close working relationship between the entities." See State and Local Government Conflict of Interests Act, Va. Code § 2.2-3101.

Disclosure Statement



Known Interest by Public Official or Employee

Does an **official or employee of the City of Virginia Beach** have an interest in the subject land or any proposed development contingent on the subject public action? **Yes** **No**

- If **yes**, what is the name of the official or employee and what is the nature of the interest?
-

Applicant Services Disclosure

1. Does the applicant have **any existing financing (mortgage, deeds of trust, cross-collateralization, etc) or are they considering any financing** in connection with the subject of the application or any business operating or to be operated on the property?

Yes **No**

- If **yes**, identify the financial institutions providing the service.
-

2. Does the applicant have a **real estate broker/agent/realtor** for current and anticipated future sales of the subject property?

Yes **No**

- If **yes**, identify the company and individual providing the service.
-

3. Does the applicant have services for **accounting and/or preparation of tax returns** provided in connection with the subject of the application or any business operating or to be operated on the property? **Yes** **No**

- If **yes**, identify the firm and individual providing the service.
-

4. Does the applicant have services from an **architect/landscape architect/land planner** provided in connection with the subject of the application or any business operating or to be operated on the property? **Yes** **No**

- If **yes**, identify the firm and individual providing the service.
-

5. Is there any other **pending or proposed purchaser** of the subject property? **Yes** **No**

- If **yes**, identify the purchaser and purchaser's service providers.
-

Disclosure Statement



6. Does the applicant have a **construction contractor** in connection with the subject of the application or any business operating or to be operated on the property? Yes No

- If **yes**, identify the company and individual providing the service.

7. Does the applicant have an **engineer/surveyor/agent** in connection with the subject of the application or any business operating or to be operated on the property? Yes No

- If **yes**, identify the firm and individual providing the service.
Sigma Environmental Services, Inc.

8. Is the applicant receiving **legal services** in connection with the subject of the application or any business operating or to be operated on the property? Yes No

- If **yes**, identify the firm and individual providing the service.

Applicant Signature

I certify that all of the information contained in this Disclosure Statement Form is complete, true, and accurate. I understand that, upon receipt of notification that the application has been scheduled for public hearing, **I am responsible for updating the information provided herein two weeks prior to the meeting of Planning Commission, City Council, VBDA, CBPA, Wetlands Board or any public body or committee in connection with this application.**

Applicant Signature

Ms. Charlotte Humanik

Print Name and Title

Date

Is the applicant also the owner of the subject property? Yes No

- If **yes**, you do not need to fill out the owner disclosure statement.

FOR CITY USE ONLY/ All disclosures must be updated two (2) weeks prior to any Planning Commission and City Council meeting that pertains to the applications

<input type="checkbox"/>	No changes as of	Date	Signature	
			Print Name	

Part 1 – General Information

PLEASE PRINT OR TYPE ALL RESPONSES: If a question does not apply to your project, please print N/A (not applicable) in the block or space provided. If additional space is needed, attach 8-1/2" x 11" sheets of paper.

County or City in which the project is located: <u>Virginia Beach</u>
Waterway at project site: <u>Bass Inlet - East, a man-made canal to North Bay</u>

1. Applicant's name* and complete mailing address: Contact Information:
 Charlotte Humanik Home () _____
 2852 Bluebill Dr. Work () _____
 Virginia Beach, VA 23456 Fax () _____
Cell/ Pager (757) 450-4540
e-mail charvh14@gmail.com
 State Corporation Commission ID Number (if applicable) _____

2. Property owner(s) name* and complete address, Contact Information:
 if different from applicant Home () _____
Work () _____
Fax () _____
Cell/ Pager () _____
e-mail _____
 State Corporation Commission ID Number (if applicable) _____

3. Authorized agent name* and complete mailing Contact Information:
 address (if applicable): Home () _____
Work () _____
 Sigma Environmental Services, Inc. Fax () _____
 1513 Sandbridge Road Cell/ Pager (757) 615-9974
 Virginia Beach, Virginia 23456 e-mail rharoldjones@aol.com
 State Corporation Commission ID Number (if applicable) 0623459-5

*** If multiple applicants, property owners, and/or agents, each must be listed and each must sign the applicant signature page. If for a company, use the SCC registered name.**

4. Provide a detailed description of the project in the space below. If additional space is needed, provide a separate sheet of paper with the project description. Be sure to include how the construction site will be accessed, especially if clearing and/or grading will be required.

Install 101' 5" LF of facing bulkhead along the existing shoreline at or behind MHW line as much as practicable; with two 6-foot return walls. Install an 5' X 24' dock.

FOR AGENCY USE ONLY	
	Notes:
	JPA # <u>22-0359</u>

Part 1 - General Information (continued)

5. Have you obtained a contractor for the project? ___ Yes* No. *If your answer is "Yes" complete the remainder of this question and submit the Applicant's and Contractor's Acknowledgment Form (enclosed)

Contractor's name* and complete mailing address:

Not selected yet.

Contact Information:

Home () _____

Work () _____

Fax () _____

Cell / Pager () _____

email _____

State Corporation Commission ID Number (if applicable) _____

*** If multiple contractors, each must be listed and each must sign the applicant signature page. If for a company, use the SCC registered name.**

6. List the name, address and telephone number of the newspaper having general circulation in the area of the project. Failure to complete this question may delay local and State processing.

Name and complete mailing address:

The Virginian Pilot
150 Brambleton, Avenue
Norfolk, Virginia 23509

Telephone number

(757) _____ 446-2000

7. Give the following project location information:

Street Address (911 address if available) 2852 Bluebill Drive

Lot/Block/Parcel# Lot 15

Subdivision Section 1B South, Sandbridge Shores

City / County Virginia Beach, VA Zipcode 23456

Latitude and Longitude at Center of Project Site (Decimal Degrees): 36.729375 N -75.940142 W

If the project is located in a rural area, please provide driving directions.

From the intersection of Sandbridge Road and Sandpiper Road, turn right and head south on Sandpiper Road. Travel approximately 0.9 miles, turn right on Tuna Lane. Travel one block, turn left on Bluebill Dr. Travel about 1/4 mile, 2852 Bluebill is on the left (East) side of the road.

Note: if the project is in an undeveloped subdivision or property, clearly stake and identify property lines and location of the proposed project. A supplemental map showing how the property is to be subdivided should also be provided.

Part 1 - General Information (continued)

8. What is the primary and secondary purpose of the project? For example, the primary purpose may be “to protect property from erosion due to boat wakes” and the secondary purpose may be “to provide safer access to a pier.”

Primary purpose of the project is to replace a failing rubble revetment and to prevent the further loss of uplands through the failing structure. The secondary project purpose is to provide safe recreational access to the waterway.

9. Proposed use (check one):

Single user (private, non-commercial, residential)
 Multi-user (community, commercial, industrial, government)

10. Describe the measures that will be taken to avoid and minimize impacts, to the maximum extent practicable, to wetlands, surface waters, submerged lands, and buffer areas associated with any disturbance (clearing, grading, excavating) during and after project construction.

Please be advised that unavoidable losses of tidal wetlands and/or aquatic resources may require compensatory mitigation.

See Addendum.

11. Have you previously had a site visit, applied to, or obtained a permit from any agency (Federal, State, or Local) for any portion of the project described in this application or any other project at the site?

Yes* No * If you answered “Yes”, provide the following information:

<u>Agency / Representative</u>	<u>Activity</u>	<u>Permit/Project No.</u>	<u>Action** & Date</u>
--------------------------------	-----------------	---------------------------	----------------------------

(**Issued, Denied, Withdrawn, or Site Visit)

ADDENDUM

10. A significant portion of the existing shoreline is nearly vertical, situated above an unconsolidated rubble base, (broken cinder block, concrete slabs, brick, etc.) in part. The bulkhead alignment is located at or landward of the MHW line along a substantial portion of its length in an effort to minimize overall impacts. Removal of the rubble, both in the upland and channelward of MHW, is mandated to safely install bulkhead sheeting. Relocation of the unsuitable rubble back into the water is an undesirable option from a habitat perspective. A new soft-bottom would equal or exceed any habitat potential of leaving the rubble in the waterway. Converting upland and existing rubble area into non-vegetated intertidal habitat should be considered the environmentally preferred replacement option for this project.

Impact & Compensation Quantities

Fill Impacts:

Backfill NV Intertidal Area = 14 ft²

Excavate NV Intertidal Rubble to NV Intertidal Area = 39 ft²

Compensation:

Excavate Upland Rubble to NV Intertidal Area = 44 ft²

Excavate Upland to NV Intertidal Area = 18 ft²

**Charlotte Humenik
2852 Blue Bill Dr.
2022-WTRA-00037**

Statement indicating whether use of a living shoreline (as defined in §28.2-104.1) for a shoreline management practice is not suitable, including reasons for that determination.

An existing swimming pool and concrete apron is located within 13 feet of the MHW line at its closest point, and averages approximately 18 feet across the width of the property, leaving little room to grade the property to achieve the proper slope for a living shoreline. Elevation of the back yard is at or slightly above 5.0 feet. Both adjacent properties have shorelines stabilized by a combination of rock revetments and bulkheads. Grading landward along the common property lines would also negatively impact the shoreline stabilization structures of the adjacent property owners. Based on these physical constraints, it is Sigma's professional opinion that construction of a living shoreline on the applicants' property would not be a structurally nor environmentally suitable alternative for this lot.

R. Harold Jones, SPWS, Emeritus
Sigma Environmental Services, Inc.

Part 1 - General Information (continued)

12. Is this application being submitted for after-the-fact authorization for work which has already begun or been completed? ___ Yes No. If yes, be sure to clearly depict the portions of the project which are already complete in the project drawings.
13. Approximate cost of the entire project (materials, labor, etc.): \$ 35,000
Approximate cost of that portion of the project which is below mean low water: \$ \$500
14. Completion date of the proposed work: Fall-Winter 2022 - _____
15. Adjacent Property Owner Information: List the name and complete mailing address, including zip code, of each adjacent property owner to the project. (NOTE: a property owner/applicant cannot be their own adjacent property owner. You must give the next owner down the river, creek, etc).

Samuel Leary, 2848 Bluebill Drive, Virginia Beach, VA 23456

Edward J. Sibiga, III, 2856 Bluebill Drive, VA 23456

Part 2 – Signatures (continued)

2. Applicants having agents (if applicable)

CERTIFICATION OF AUTHORIZATION

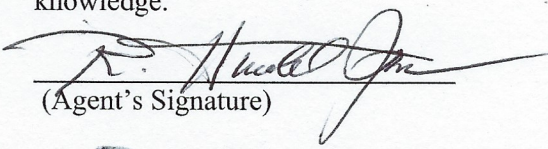
Charlotte Humanik

Sigma Environmental Services, Inc.

I (we), _____, hereby certify that I (we) have authorized _____
(Applicant's name(s)) (Agent's name(s))

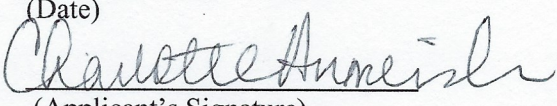
to act on my behalf and take all actions necessary to the processing, issuance and acceptance of this permit and any and all standard and special conditions attached.

We hereby certify that the information submitted in this application is true and accurate to the best of our knowledge.


(Agent's Signature)

(Use if more than one agent)

2-15-22
(Date)


(Applicant's Signature)

(Use if more than one applicant)

2-15-22
(Date)

3. Applicant's having contractors (if applicable)

CONTRACTOR ACKNOWLEDGEMENT

I (we), _____, have contracted _____
(Applicant's Name(s)) (Contractor's Name(s))
to perform the work described in this Joint Permit Application, signed and dated _____.

We will read and abide by all conditions set forth in all Federal, State and Local permits as required for this project. We understand that failure to follow the conditions of the permits may constitute a violation of applicable Federal, state and local statutes and that we will be liable for any civil and/or criminal penalties imposed by these statutes. In addition, we agree to make available a copy of any permit to any regulatory representative visiting the project to ensure permit compliance. If we fail to provide the applicable permit upon request, we understand that the representative will have the option of stopping our operation until it has been determined that we have a properly signed and executed permit and are in full compliance with all terms and conditions.

Contractor's name or name of firm

Contractor's or firms address

Contractor's signature and title

Contractor's License Number

Applicant's signature

(use if more than one applicant)

Date

Part 2 - Signatures

1. Applicants and property owners (if different from applicant).

NOTE: REQUIRED FOR ALL PROJECTS

PRIVACY ACT STATEMENT: The Department of the Army permit program is authorized by Section 10 of the Rivers and Harbors Act of 1899, Section 404 of the Clean Water Act, and Section 103 of the Marine Protection Research and Sanctuaries Act of 1972. These laws require that individuals obtain permits that authorize structures and work in or affecting navigable waters of the United States, the discharge of dredged or fill material into waters of the United States, and the transportation of dredged material for the purpose of dumping it into ocean waters prior to undertaking the activity. Information provided in the Joint Permit Application will be used in the permit review process and is a matter of public record once the application is filed. Disclosure of the requested information is voluntary, but it may not be possible to evaluate the permit application or to issue a permit if the information requested is not provided.

CERTIFICATION: I am hereby applying for all permits typically issued by the DEQ, VMRC, U.S. Army Corps of Engineers, and/or Local Wetlands Boards for the activities I have described herein. I agree to allow the duly authorized representatives of any regulatory or advisory agency to enter upon the premises of the project site at reasonable times to inspect and photograph site conditions, both in reviewing a proposal to issue a permit and after permit issuance to determine compliance with the permit.

In addition, I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Charlotte Humanik

Applicant's Name (printed/typed)

(Use if more than one applicant)



Applicant's Signature

(Use if more than one applicant)

2-15-22

Date

Property Owner's Name (printed/typed)
(If different from Applicant)

(Use if more than one owner)

Property Owner's Signature

(Use if more than one owner)

Date

Part 3 – Appendices

Please complete and submit the appendix questions applicable to your project, and attach the required vicinity map(s) and drawings to your application. If an item does not apply to your project, please write “N/A” in the space provided.

Appendix A: Projects for Access to the water (private and community piers, boathouses, marinas, moorings, boat ramps, aquaculture facilities, etc). Answer all questions that apply.

1. **Briefly describe your proposed project.**

Install 101' 5" LF of facing bulkhead along the existing shoreline at or behind MHW line as much as practicable, with two 6-foot retaining walls. Install an 5' X 24 dock.

2. **For private, noncommercial piers:**

What is the overall length of the structure? 5 feet.

channelward of Mean High Water? 5.5 feet.

channelward of Mean Low Water? 0.5 feet

What is the total size of any and all L- or T-head platforms? N/A sq. ft.

For boathouses, what is the overall size of the roof structure? N/A sq. ft.

Will your boathouse have sides? Yes No.

NOTE: All proposals for piers, boathouses and shelter roofs must be reviewed by VMRC, however, pursuant to § 28.2-1203(5) of the Code of Virginia a VMRC permit may not be required for such structures (except as required by subsection D of § 28.2-1205 for piers greater than 100 feet in length involving commercially productive leased oyster or clam grounds), provided that (i) the piers do not extend beyond the navigation line or private pier lines established by the Commission or the United States Army Corps of Engineers, (ii) the piers do not exceed six feet in width and finger piers do not exceed five feet in width, (iii) any L or T head platforms and appurtenant floating docking platforms do not exceed, in the aggregate, 400 square feet, (iv) if prohibited by local ordinance open-sided shelter roofs or gazebo-type structures shall not be placed on platforms as described in clause (iii), but may be placed on such platforms if not prohibited by local ordinance, and (v) the piers are determined not to be a navigational hazard by the Commission. Subject to any applicable local ordinances, such piers may include an attached boat lift and an open-sided roof designed to shelter a single boat slip or boat lift. In cases in which open-sided roofs designed to shelter a single boat, boat slip or boat lift will exceed 700 square feet in coverage or the open-sided shelter roofs or gazebo structures exceed 400 square feet, and in cases in which an adjoining property owner objects to a proposed roof structure, permits shall be required as provided in § 28.2-1204.

3. **For Corps permits**, in cases where the proposed pier will encroach beyond one fourth the waterway width (as determined by measuring mean high water to mean high water or ordinary high water mark to ordinary high water mark), the following information should be included:

- a. Written justification as to purpose if the proposed work would extend a pier greater than one-fourth of the distance across the open water measured from mean high water or the channelward edge of the wetlands
- b. Written justification if the proposed work would involve the construction of a pier greater than five feet wide or less than four feet above any wetland substrate.
- c. Depth soundings across the waterway at increments designated by the Corps project manager. Typically 10-foot increments for waterways less than 200 feet wide and 20-foot increments for waterways greater than 200 feet wide with the date and time the measurements were taken and how they were taken (e.g., tape, range finder, etc.). Inclusion of depth sounding data is recommended in order to expedite permit evaluation.

Part 3 – Appendices (continued)

4. Provide the type, size, and registration number of the vessel(s) to be moored at the pier or mooring buoy.

Type	Length	Width	Draft	Registration
Canoes & Kayaks				

5. For **Marinas, Commercial Piers, Community Piers and other non-private piers**, provide the following information:

- A) Have you obtained approval for sanitary facilities from the Virginia Department of Health? _____ (required pursuant to Section 28.2-1205C of the Code of Virginia).
- B) Will petroleum products or other hazardous materials be stored or handled at your facility? _____.
- C) Will the facility be equipped to off-load sewage from boats? _____.
- D) How many wet slips are proposed? _____. How many are existing? _____.
- E) What is the area of the piers and platforms that will be constructed over
Tidal wetlands _____ square feet
Submerged lands _____ square feet

6. For **boat ramps**, what is the overall length of the structure? _____ feet.
from Mean High Water? _____ feet.
from Mean Low Water? _____ feet.

Note: drawings must include the construction materials, method of installation, and all dimensions. If tending piers are proposed, complete the pier portion.

Note: If dredging or excavation is required, you must complete the Standard Joint Point Permit application.

7. For **aquaculture-related structures**:

Will the activity be commercial? _____ Yes _____ No

Will the proposed structures be attached to an existing pier or other structure? _____ Yes _____ No

What is the maximum area (square feet) of submerged land that will be occupied by the proposed structures? _____ square feet.

Describe the activity from time of acquisition of seed or other source material to the time of harvest, the source of the animals/plants, and clearly show distance to all proposed and existing structures and shellfish lease boundaries (if applicable) in your drawings. Include bathymetry (depths), relative to mean low water in your plan view drawing and show the location of any Submerged Aquatic Vegetation (SAV) in the project vicinity. **(NOTE: the presence or absence of SAV will be field verified during the project review).**

Part 3 – Appendices (continued)

Appendix B: Projects for Shoreline Stabilization in tidal wetlands, tidal waters and dunes/beaches (including riprap revetments and associated backfill, marsh toe stabilization, bulkheads and associated backfill, breakwaters, beach nourishment, groins, jetties, etc). Answer all questions that apply. Please provide any reports provided from the Shoreline Erosion Advisory Service.

NOTE: Information on non-structural, vegetative alternatives (i.e. Living Shoreline) for shoreline stabilization is available at http://ccrm.vims.edu/coastal_zone/living_shorelines/index.html .

1. For riprap, bulkheads, marsh toe, breakwaters, groins, jetties: What is the overall length of the structure(s)? 101' 5" linear feet. If applicable, what is the volume of the associated backfill? 60 cubic yards.

2. What is the maximum encroachment channelward of mean high water? 1.5 feet.
channelward of mean low water? 0 feet.
channelward of the back edge of the dune or beach? N/A feet.

3. Please calculate the square footage of encroachment over:

- Vegetated wetlands 0 square feet
- Nonvegetated wetlands 53 square feet
- Subaqueous bottom 0 square feet
- Dune and/or beach N/A square feet

4. For bulkheads, is any part of the project maintenance or replacement of a previously authorized, currently serviceable, existing structure? Yes X No.

If yes, will the construction of the new bulkhead be no further than two (2) feet channelward of the existing bulkhead? Yes No.

If no, please provide an explanation for the purpose and need for the additional encroachment.

5. Describe the type of construction and **all** materials to be used, including source of backfill material, if applicable (e.g. vinyl sheet-pile bulkhead, timber stringers and butt piles, 100% sand backfill from upland source; broken concrete core material with Class II quarry stone armor over filter cloth).

NOTE: Drawings must include construction details, including dimensions, design and all materials, including fittings if used.

See Sheet 3 of 4 for material specifications and schedule.

6. If using stone, broken concrete, etc., for your structure(s), what is the average weight of the:

Core (inner layer) material _____ pounds per stone Class size _____
Armor (outer layer) material _____ pounds per stone Class size _____

Part 3 – Appendices (continued)

7. For **beach nourishment**, including that associated with breakwaters, groins or other structures, provide the following:

- Volume of material _____ cubic yards channelward of mean low water
_____ cubic yards landward of mean low water
- Area to be covered _____ square feet channelward of mean low water
_____ square feet landward of mean low water
- Source of material, composition (e.g. 90% sand, 10% clay): _____
- Method of transportation and placement: _____

- Describe any proposed vegetative stabilization measures to be used, including planting schedule, spacing, monitoring, etc.:

**ENGINEER/SURVEYOR'S INSPECTION STATEMENT
FOR
WATERFRONT CONSTRUCTION/COASTAL PRIMARY SAND DUNE PROJECTS**

REVISED 10-09-03

PROJECT LOCATION: 2852 BLUEBILL DR.

APPLICANT'S NAME: CHARLOTTE HUMERIK

APPLICANT'S ADDRESS: 2852 BLUEBILL DR.

VA BEACH, VA 23456

ENGINEER OF RECORD: JOHN W. BLAKE, II

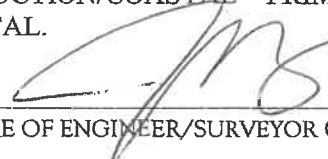
PROFESSIONAL ENGINEER/ SURVEYOR

CERTIFYING PROJECT

CONSTRUCTION: JOHN W. BLAKE, II

AT THE COMPLETION OF A WATERFRONT CONSTRUCTION/COASTAL PRIMARY SAND DUNE PROJECT IT IS REQUIRED THAT A CERTIFICATION BY THE APPROVING ENGINEER/SURVEYOR BE SUBMITTED, STATING THAT THEY HAVE INSPECTED THE REFERENCED PROJECT SITE AND TO THE BEST OF THEIR KNOWLEDGE, THE WATERFRONT/COASTAL PRIMARY SAND DUNE PROJECT HAS BEEN CONSTRUCTED IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS. SUCH CERTIFICATION SHALL BE SEALED BY THE ENGINEER OR SURVEYOR CERTIFYING THE CONSTRUCTION.

THIS FORM MUST BE COMPLETED AND RETURNED TO THE DEPARTMENT OF PLANNING, WATERFRONT OPERATIONS OFFICE WITH ALL APPLICATIONS FOR WATERFRONT CONSTRUCTION/COASTAL PRIMARY SAND DUNE PROJECTS AT THE TIME OF SUBMITTAL.

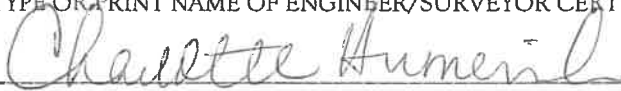


SIGNATURE OF ENGINEER/SURVEYOR CERTIFYING CONSTRUCTION

2-15-22

DATE

JOHN W. BLAKE, II
TYPE OR PRINT NAME OF ENGINEER/SURVEYOR CERTIFYING CONSTRUCTION



SIGNATURE OF APPLICANT

2-15-22

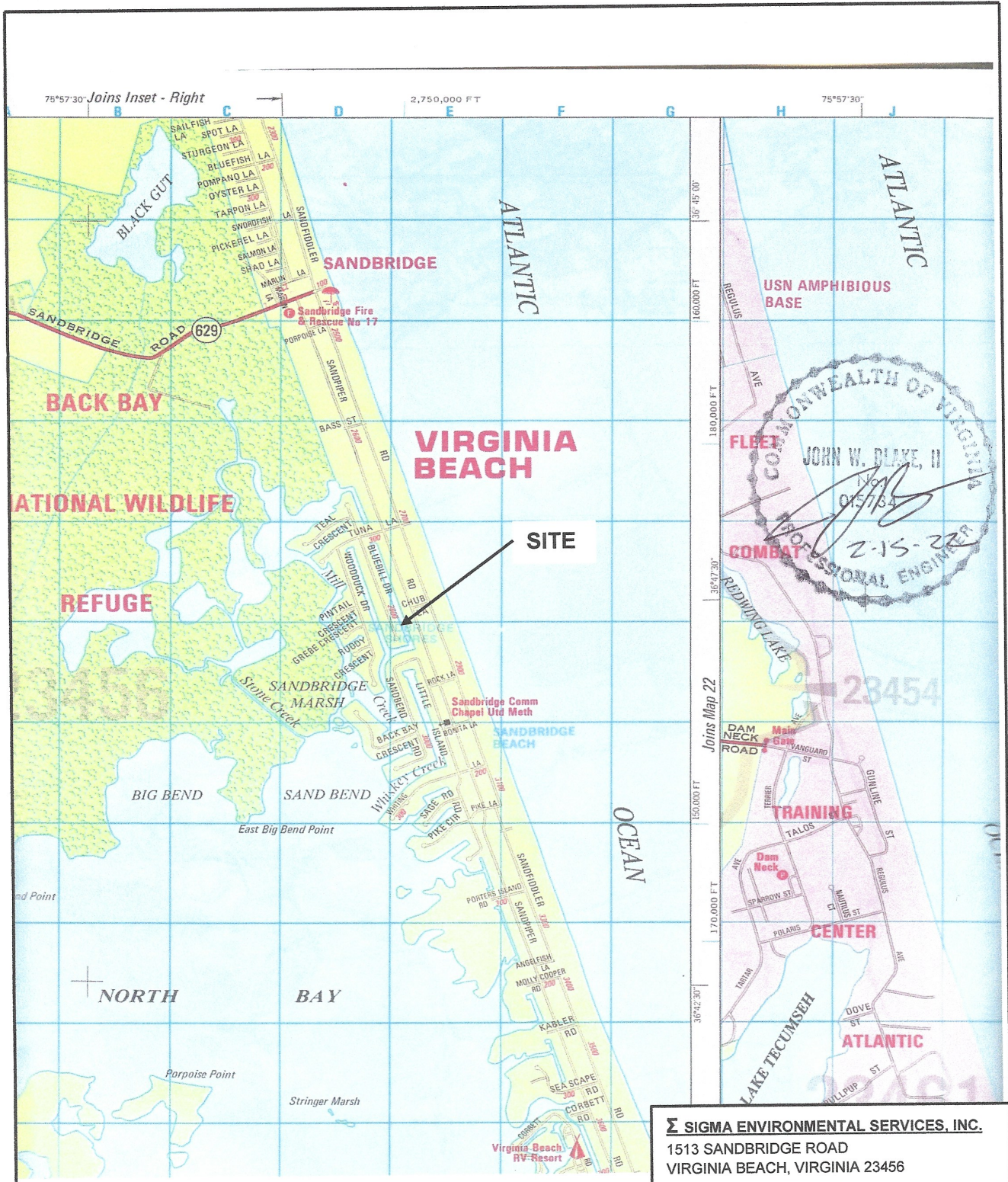
DATE

SIGNATURE OF COASTAL ZONE ADMINISTRATOR

DATE

ANY ALTERATION OF THIS FORM OR ITS ENDORSEMENTS WITHOUT THE EXPRESS CONSENT FROM THE ORIGINATOR SHALL INVALIDATE THIS INSTRUMENT.

APPLICATION NO. _____



Σ SIGMA ENVIRONMENTAL SERVICES, INC.
 1513 SANDBRIDGE ROAD
 VIRGINIA BEACH, VIRGINIA 23456

APOs:
 1. SAMUEL LEARY
 2. JOSEPH M. GROLLER

WATERWAY: BASS INLET EAST
FOR: CHARLOTTE HUMANIK
 2852 BLUEBILL DRIVE
 VIRGINIA BEACH, VA 23456

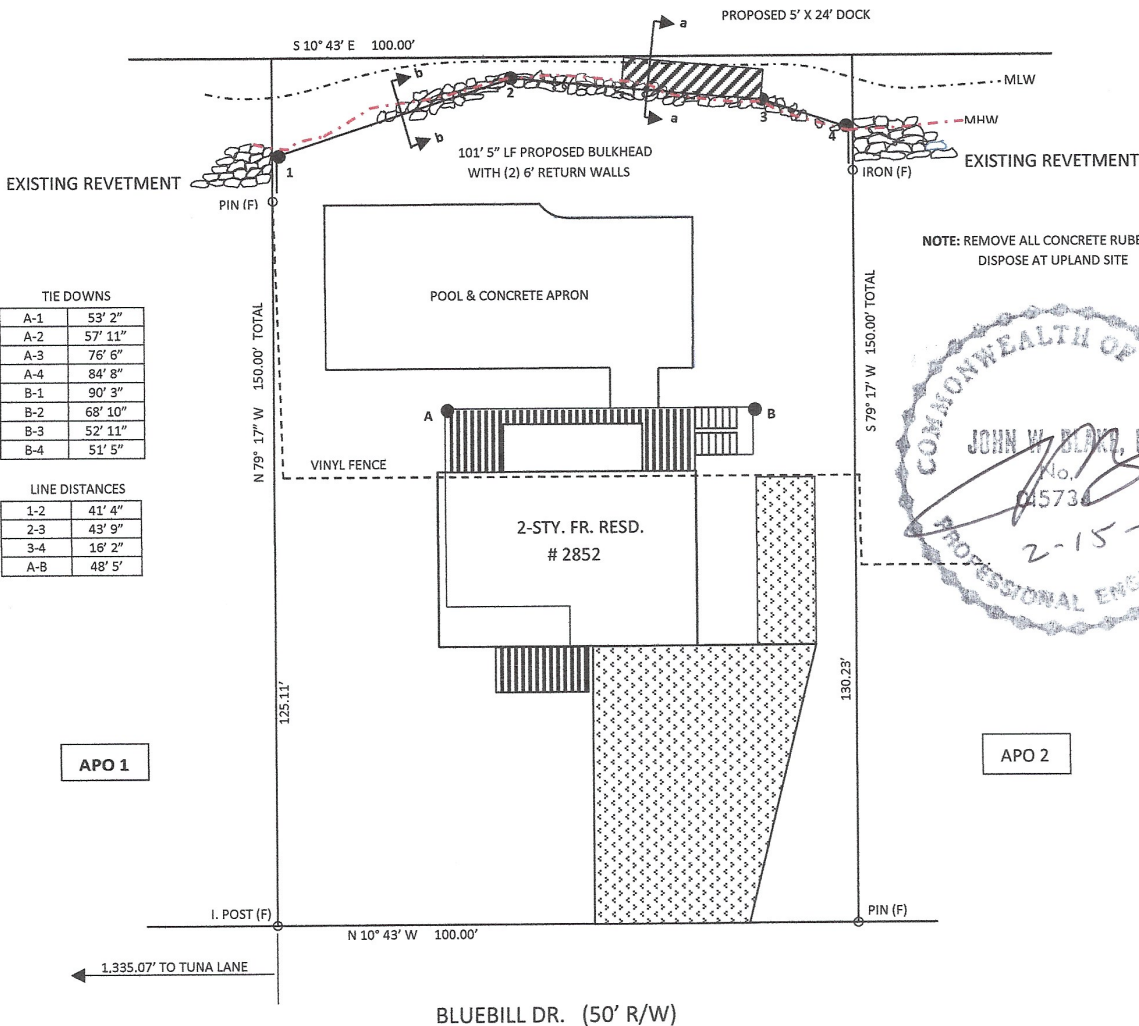
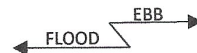
PROJECT: BULKHEAD, DOCK
DATUM: 0.00' MLW = -1.3' NAVD 1988
DATE: FEB. 15, 2022 SHEET 1 OF 4

PLAN VIEW
SCALE: 1" = 30'



MHW-MHW
+/- 102'

BASS INLET EAST

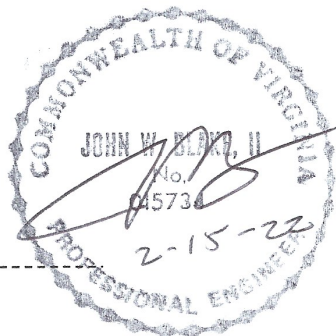


TIE DOWNS

A-1	53' 2"
A-2	57' 11"
A-3	76' 6"
A-4	84' 8"
B-1	90' 3"
B-2	68' 10"
B-3	52' 11"
B-4	51' 5"

LINE DISTANCES

1-2	41' 4"
2-3	43' 9"
3-4	16' 2"
A-B	48' 5"



SIGMA ENVIRONMENTAL SERVICES, INC.
1513 SANDBRIDGE ROAD
VIRGINIA BEACH, VIRGINIA 23456

APOs:
1. SAMUEL LEARY
2. JOSEPH M. GROLLER

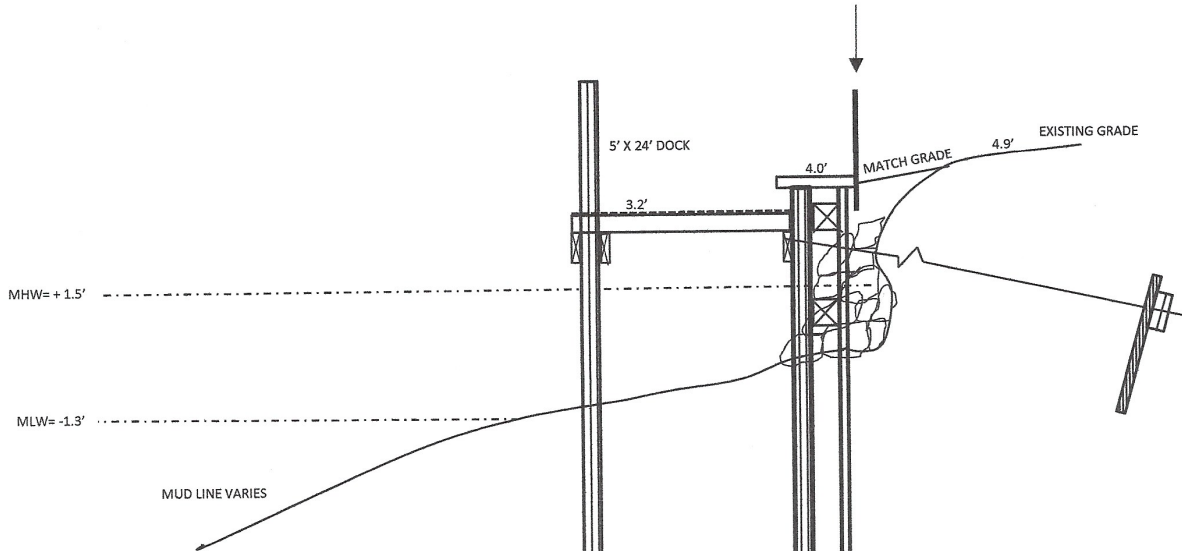
WATERWAY: BASS INLET - EAST
FOR: CHARLOTTE HUMANIK
2852 BLUEBILL DRIVE
VIRGINIA BEACH, VA 23456

PROJECT: BULKHEAD
DATUM: 0.00' MLW = -1.3' NAVD 1988
DATE: FEB. 15, 2022 SHEET 2 OF 4

CROSS SECTION a-a

1" = 4'

- 36" WIRE REINFORCED TEMP. E & S CONTROL BARRIER
- STAKED AND TRENCHED - INSTALL PRIOR TO BACKFILLING
- MAINTAIN ON DAILY BASIS UNTIL PERMANENT VEGETATIVE COVER HAS BEEN ESTABLISHED

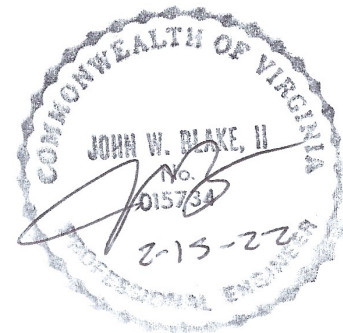


MATERIAL SCHEDULE:

- TIE BACK RODS: 3/4" DIA. - 10-15' LENGTH
- DRAGBOARDS: TWO (2) 2" X 12"
- PILES: 8" DIA. MINIMUM 5' 3" O/C - 16' LENGTH
- SHEETING: 2" X 12" X 12' T&G
- ALTERNATE SHEETING: VINYL SCMI-SG-330
- WALES: DOUBLE 6" X 6" ON EDGE - CONTINUOUS - STAGGERED JOINTS - BOLDED
- TOP CAP: TWIN 2" X 10"
- UV PROTECTED FILTER CLOTH
- 1" WEEP HOLES 2" O/C 4" BELOW MHW
- 60 YD³ BACKFILL

MATERIAL SPECIFICATIONS:

- FRAMING: CCA 2.5# PCF (MLP-88)
- DEADMAN: CCA 2.5# (MP-88)
- TOP PLATE: 0.4# PCF (LP-22)
- HARDWARE: HOT DIPPED GALVANIZED (ASTM-A153)



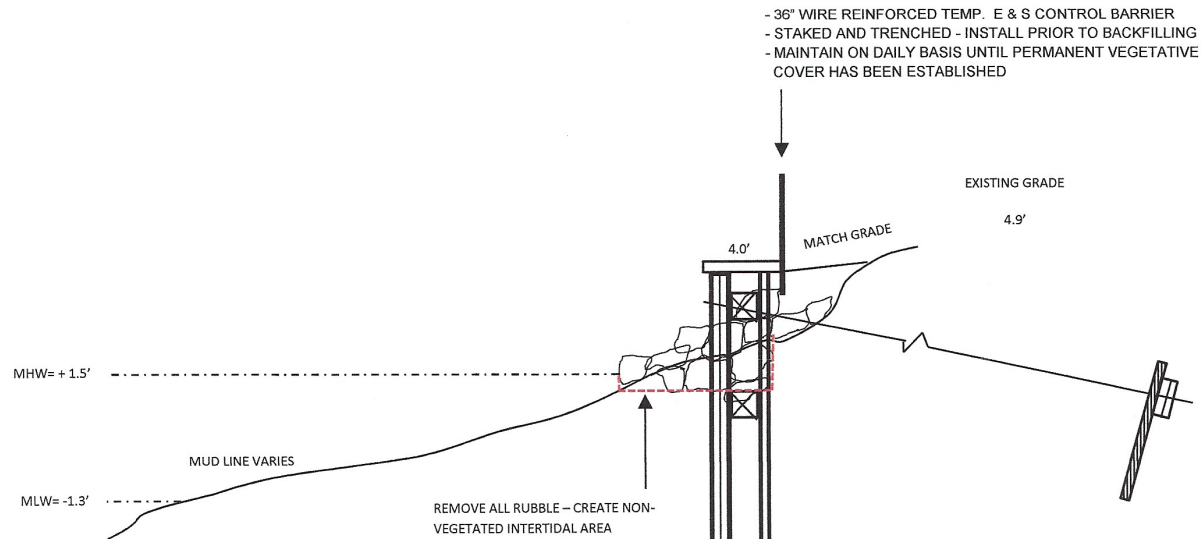
SIGMA ENVIRONMENTAL SERVICES, INC.

1513 SANDBRIDGE ROAD
VIRGINIA BEACH, VIRGINIA 23456

<p>APOs:</p> <p>1. SAMUEL LEARY</p> <p>2. JOSEPH M. GROLLER</p>	<p>WATERWAY: BASS INLET EAST</p> <p>FOR: CHARLOTTE HUMANIK 2852 BLUEBILL DR. VIRGINIA BEACH, VA 23456</p>	<p>PROJECT: BULKHEAD, DOCK</p> <p>DATUM: 0.00' MLW = -1.3' NAVD 1988</p> <p>DATE: FEB. 15, 2022 SHEET 3 OF 4</p>
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CROSS SECTION b-b

1" = 4'

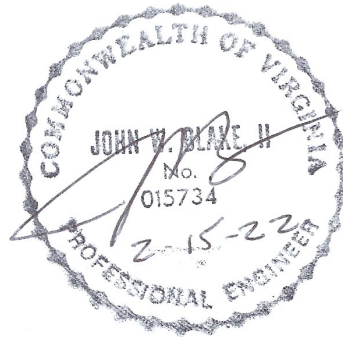


MATERIAL SCHEDULE:

- TIE BACK RODS: 1/2" DIA. - 10-15' LENGTH
- DRAGBOARDS: TWO (2) 2" X 12"
- PILES: 8" DIA. MINIMUM 5' 3" O/C - 16' LENGTH
- SHEETING: 2" X 12" X 12' T&G
- ALTERNATE SHEETING: VINYL SCMI- SG-330
- WALES: DOUBLE 6" X 6" ON EDGE - CONTINUOUS - STAGGERED JOINTS - BOLDED
- TOP CAP: TWIN 2" X 10"
- UV PROTECTED FILTER CLOTH
- 1" WEEP HOLES 2' O/C 4' BELOW MHW
- 60 YD³ BACKFILL

MATERIAL SPECIFICATIONS:

- FRAMING: CCA 2.5# PCF (MLP-88)
- DEADMAN: CCA 2.5# (MP-88)
- TOP PLATE: 0.4# PCF (LP-22)
- HARDWARE: HOT DIPPED GALVANIZED (ASTM-A153)



SIGMA ENVIRONMENTAL SERVICES, INC.

1513 SANDBRIDGE ROAD
VIRGINIA BEACH, VIRGINIA 23456

APOs:

1. SAMUEL LEARY
2. JOSEPH M. GROLLER

WATERWAY: BASS INLET EAST

FOR: CHARLOTTE HUMANIK
2852 BLUEBILL DR.
VIRGINIA BEACH, VA 23456

PROJECT: BULKHEAD, DOCK

DATUM: 0.00' MLW = -1.3' NAVD 1988
DATE: FEB. 15, 2022 SHEET 4 OF 4

February 15, 2022

Edward J. Sibiga, III
2856 Bluebill Drive
Virginia Beach, VA 23456

**RE: Waterfront Improvements
At: 2852 Bluebill Drive
Virginia Beach, Virginia 23456**

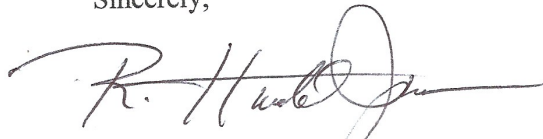
Dear Mr. Sibiga:

Sigma Environmental Services, Inc. has been retained by Ms. Charlotte Humanik to obtain all necessary permits and approvals for installation of a bulkhead and a dock on her property located at 2852 Bluebill Drive, Virginia Beach, Virginia. This letter is to notify you of the improvements proposed by Ms. Humanik and requests your input on the project.

The attached plan view drawing reflects the location and alignment of the proposed improvements. I have also enclosed an Adjacent Property Owner's Acknowledgement Form. Please complete the form and return it in the enclosed stamped envelope addressed to the Virginia Marine Resources Commission.

Should you have any questions regarding this project, please feel free to call me at business cell (757) 615-9974. Thank you for your assistance in this matter.

Sincerely,



R. Harold Jones, PWS, Emeritus
President

CC: Ms. Charlotte Humanik

1513 SANDBRIDGE ROAD, VIRGINIA BEACH, VIRGINIA 23456
Business Cell (757) 615-9974 fax (757) 426-5145

Part 2 – Signatures (continued)

ADJACENT PROPERTY OWNER'S ACKNOWLEDGEMENT FORM

Edward J. Sibiga, III

I (we), _____, own land next to (across
(Print adjacent/nearby property owner's name)

Charlotte Humanik

the water from/on the same cove as) the land of _____.
(Print applicant's name(s))

I have reviewed the applicant's project drawings dated _____
February 15, 2022
(Date)

to be submitted for all necessary Federal, State and Local permits.

I HAVE NO COMMENT _____ ABOUT THE PROJECT.

I DO NOT OBJECT _____ TO THE PROJECT.

I OBJECT _____ TO THE PROJECT.

The applicant has agreed to contact me for additional comments if the proposal changes prior to construction of the project.

(Before signing this form, be sure you have checked the appropriate option above).

Adjacent/nearby property owner's signature(s)

Date

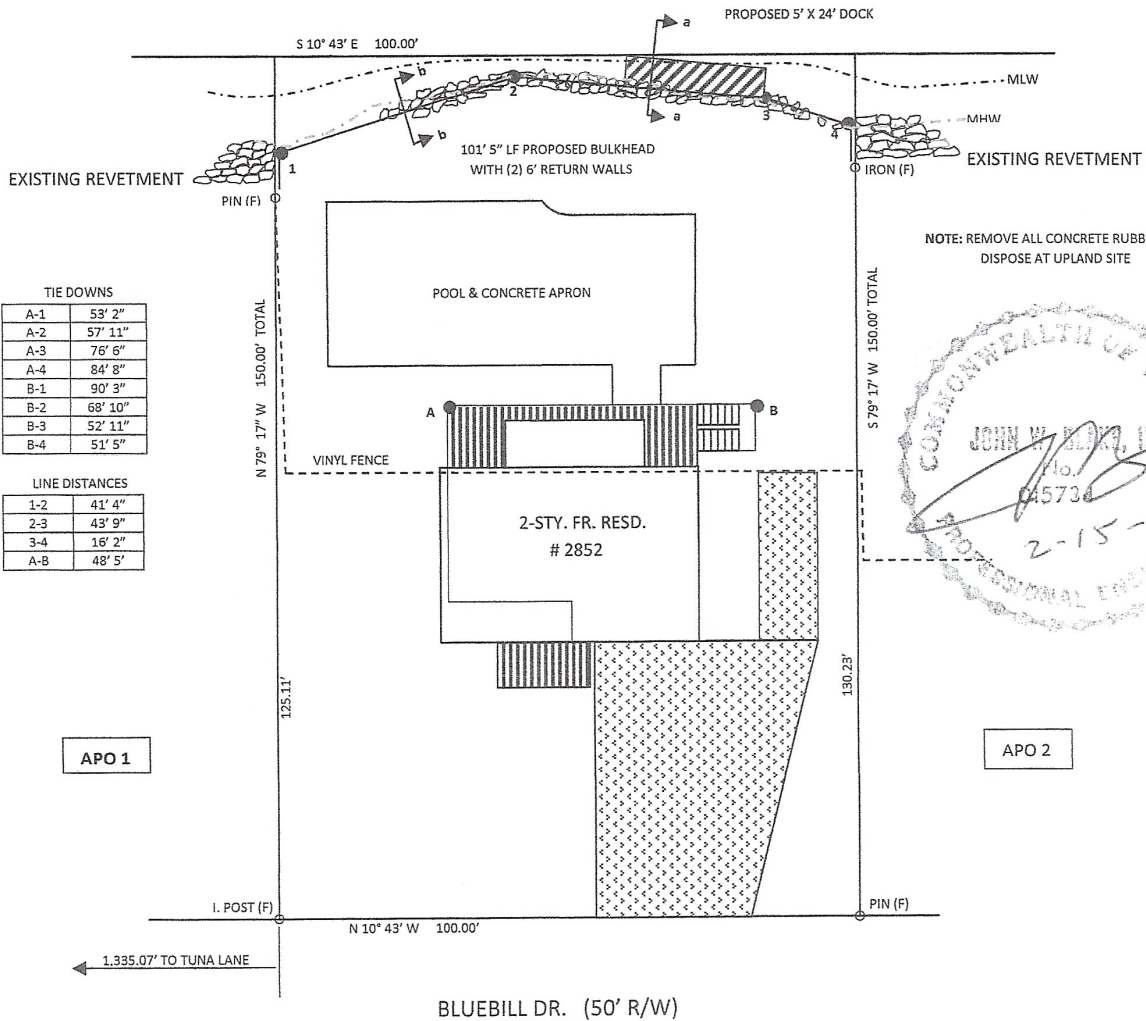
Note: If you object to the proposal, the reason(s) you oppose the project must be submitted in writing to VMRC. An objection will not necessarily result in denial of the project; however, valid complaints will be given full consideration during the permit review process.

PLAN VIEW
SCALE: 1" = 30'

BASS INLET EAST

MHW-MHW
+/- 102'

FLOOD EBB



SIGMA ENVIRONMENTAL SERVICES, INC.
1513 SANDBRIDGE ROAD
VIRGINIA BEACH, VIRGINIA 23456

APOs:

1. SAMUEL LEARY

2. JOSEPH M. GROLLER

WATERWAY: BASS INLET - EAST

FOR: CHARLOTTE HUMANIK
2852 BLUEBILL DRIVE
VIRGINIA BEACH, VA 23456

PROJECT: BULKHEAD

DATUM: 0.00' MLW = -1.3' NAVD 1988

DATE: FEB. 15, 2022 SHEET 2 OF 4

February 15, 2022

Samuel Leary
2848 Bluebill Drive
Virginia Beach, VA 23456

**RE: Waterfront Improvements
At: 2852 Bluebill Drive
Virginia Beach, Virginia 23456**

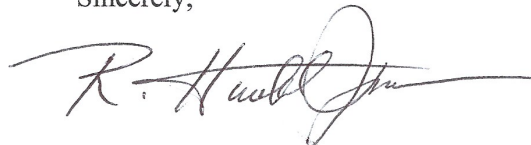
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R. Harold Jones, PWS, Emeritus
President

CC: Ms. Charlotte Humanik

1513 SANDBRIDGE ROAD, VIRGINIA BEACH, VIRGINIA 23456
Business Cell (757) 615-9974 fax (757) 426-5145

Part 2 – Signatures (continued)

ADJACENT PROPERTY OWNER’S ACKNOWLEDGEMENT FORM

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(Print adjacent/nearby property owner’s name)
Charlotte Humanik
the water from/on the same cove as) the land of _____.
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(Date)

to be submitted for all necessary Federal, state and local permits.

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I DO NOT OBJECT _____ TO THE PROJECT.

I OBJECT _____ TO THE PROJECT.

The applicant has agreed to contact me for additional comments if the proposal changes prior to construction of the project.

(Before signing this form be sure you have checked the appropriate option above).

Adjacent/nearby property owner’s signature(s)

Date

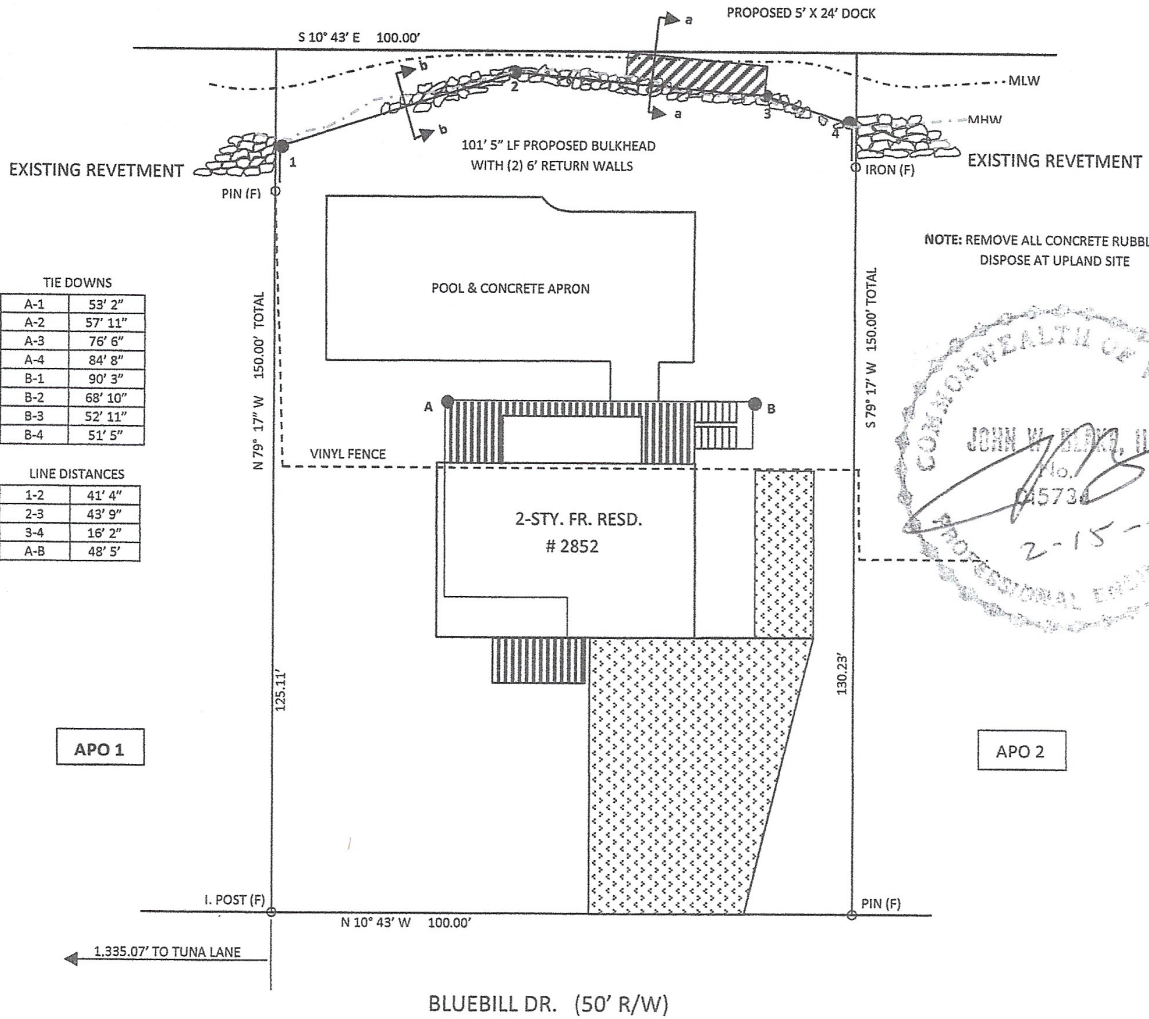
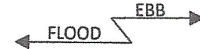
Note: If you object to the proposal, the reason(s) you oppose the project must be submitted in writing to VMRC. An objection will not necessarily result in denial of the project; however, valid complaints will be given full consideration during the permit review process.

PLAN VIEW
SCALE: 1" = 30'

BASS INLET EAST



MHW-MHW
+/- 102'



TIE DOWNS

A-1	53' 2"
A-2	57' 11"
A-3	76' 6"
A-4	84' 8"
B-1	90' 3"
B-2	68' 10"
B-3	52' 11"
B-4	51' 5"

LINE DISTANCES

1-2	41' 4"
2-3	43' 9"
3-4	16' 2"
A-B	48' 5"



APO 1

APO 2

SIGMA ENVIRONMENTAL SERVICES, INC.
1513 SANDBRIDGE ROAD
VIRGINIA BEACH, VIRGINIA 23456

APOs:
1. SAMUEL LEARY
2. JOSEPH M. GROLLER

WATERWAY: BASS INLET - EAST
FOR: CHARLOTTE HUMANIK
2852 BLUEBILL DRIVE
VIRGINIA BEACH, VA 23456

PROJECT: BULKHEAD
DATUM: 0.00' MLW = -1.3' NAVD 1988
DATE: FEB. 15, 2022 SHEET 2 OF 4



**U.S. Army Corps
Of Engineers**
Norfolk District

Regional Permit 17 Certificate of Compliance Form


Please obtain and read a copy of the 08-RP-17 prior to completion of this form. Copies can be obtained by contacting the Corps at (757) 201-7652 or on our website at:
<http://www.nao.usace.army.mil/technical%20services/Regulatory%20branch/RBregional.asp>.

- YES NO Is the proposed pier for private use ONLY?
- YES NO Does the proposed pier extend LESS than 1/4 the width of the waterway as measured from MHW to MHW or OHW to OHW (including channelward wetlands) based on the narrowest distance across the waterway regardless of the orientation of the proposed pier (MHW = mean high water line; OHW = ordinary high water line)?
- YES NO Does the proposed pier and/or mooring structure(s) extend LESS than 300 feet from the mean high water line or ordinary high water line?
- YES NO N/A If the proposed structure crosses wetland vegetation, is it of an open-pile design that has a maximum width of five (5) feet and a minimum height of four (4) feet between the decking and the wetland substrate?
- YES NO N/A If the proposed pier is to include an attached open-sided roof designed to shelter boat slips or boatlifts, is the roof less than 700 square feet?
- YES NO **Have you confirmed that the proposed construction will not take place in one of the reaches which serve as habitat for federally threatened and endangered species, Federal Project Channels, and/or other areas as listed in the "NOTIFICATION REQUIREMENTS" section of this permit?**
- YES NO N/A **If the proposed work is in portions of any waterways listed in Special Condition 4, have you obtained an easement to cross government property from the Army Corps of Engineers Real Estate Office?**

IF YOU HAVE ANSWERED "NO" TO ANY OF THE QUESTIONS ABOVE, THE REGIONAL PERMIT 17 WILL NOT APPLY AND YOU WILL NEED TO SUBMIT A JOINT PERMIT APPLICATION AND OBTAIN A SEPARATE PERMIT FROM THE CORPS BEFORE COMMENCING CONSTRUCTION.

IF YOU HAVE ANSWERED "YES" TO ALL OF THE QUESTIONS ABOVE, YOU ARE IN COMPLIANCE WITH THE REGIONAL PERMIT 17. PLEASE SIGN BELOW, ATTACH, AND SUBMIT WITH YOUR COMPLETED JOINT PERMIT APPLICATION. THIS SIGNED CERTIFICATE SERVES AS YOUR LETTER OF AUTHORIZATION FROM THE CORPS. YOU WILL NOT RECEIVE ANY OTHER WRITTEN AUTHORIZATION FROM THE CORPS. HOWEVER, YOU MAY NOT PROCEED WITH CONSTRUCTION UNTIL YOU HAVE OBTAINED ALL OTHER NECESSARY STATE AND LOCAL PERMITS.

I CERTIFY THAT I HAVE READ AND UNDERSTAND ALL CONDITIONS OF THE REGIONAL PERMIT 17 (08-RP-17), DATED AUGUST 14 2008, ISSUED BY THE US ARMY CORPS OF ENGINEERS, NORFOLK DISTRICT REGULATORY OFFICE, NORFOLK, VIRGINIA.



Signature of Property Owner(s) or Agent

Proposed work to be located at:
2852 Bluebill Dr., Virginia Beach, VA

Date 2-15-22

Revised: ~~18 NOV 2008~~

Revised: July 2012

5. 2022-WTRA-00044

Broad Bay Canal Association; Tassos & Dolores Paphites

[Applicants & Owners]

To construct a groin involving wetlands

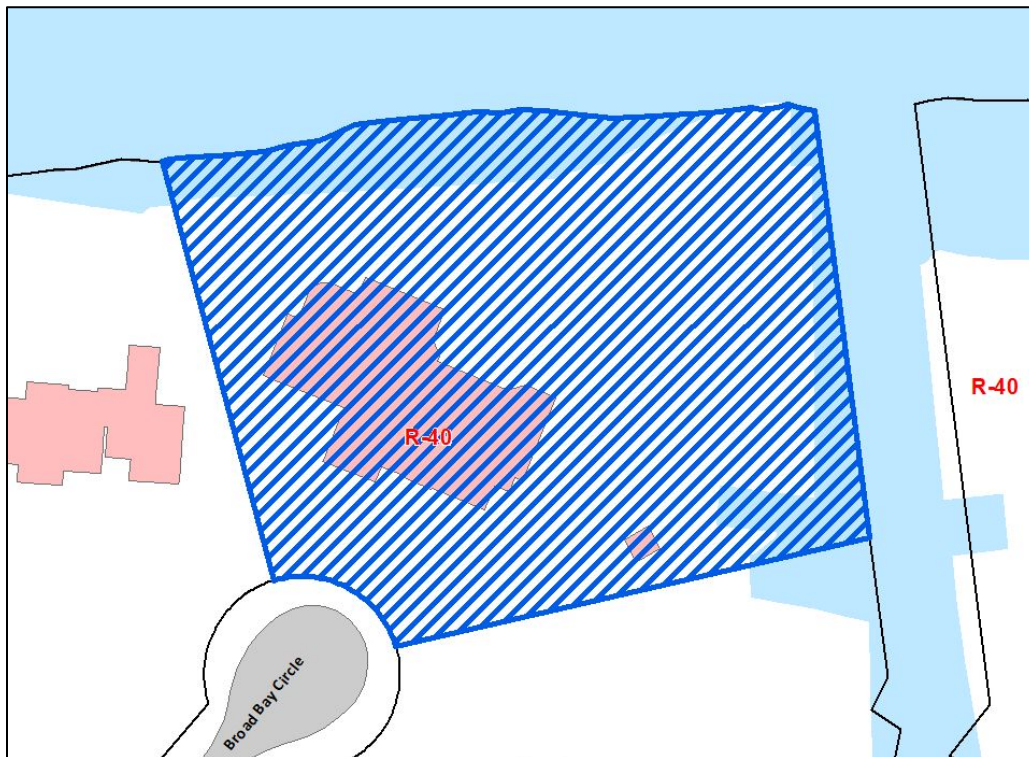
1800 Broad Bay Circle

(GPIN 2409-53-2537)

Waterway – Broad Bay

Subdivision – Baycliff Waterfront

City Council District: District 5, formerly Lynnhaven



Disclosure Statement



The disclosures contained in this form are necessary to inform public officials who may vote on the application as to whether they have a conflict of interest under Virginia law. The completion and submission of this form is required for all applications that pertain to City real estate matters or to the development and/or use of property in the City of Virginia Beach requiring action by the City Council or a City board, commission or other body.

Applicant Disclosure

Applicant Name BROAD BAY CANAL ASSOCIATION

Does the applicant have a representative? **Yes** **No**

- If **yes**, list the name of the representative.

DAVID KLEDZIK

Is the applicant a corporation, partnership, firm, business, trust or an unincorporated business? **Yes** **No**

- If **yes**, list the names of all officers, directors, members, trustees, etc. below. (Attach a list if necessary)

- If **yes**, list the businesses that have a parent-subsiary¹ or affiliated business entity² relationship with the applicant. (Attach a list if necessary)

¹ "Parent-subsiary relationship" means "a relationship that exists when one corporation directly or indirectly owns shares possessing more than 50 percent of the voting power of another corporation." See State and Local Government Conflict of Interests Act, VA. Code § 2.2-3101.

² "Affiliated business entity relationship" means "a relationship, other than parent-subsiary relationship, that exists when (i) one business entity has a controlling ownership interest in the other business entity, (ii) a controlling owner in one entity is also a controlling owner in the other entity, or (iii) there is shared management or control between the business entities. Factors that should be considered in determining the existence of an affiliated business entity relationship include that the same person or substantially the same person own or manage the two entities; there are common or commingled funds or assets; the business entities share the use of the same offices or employees or otherwise share activities, resources or personnel on a regular basis; or there is otherwise a close working relationship between the entities." See State and Local Government Conflict of Interests Act, Va. Code § 2.2-3101.

Known Interest by Public Official or Employee

Does an **official or employee of the City of Virginia Beach** have an interest in the subject land or any proposed development contingent on the subject public action? **Yes** **No**

- If **yes**, what is the name of the official or employee and what is the nature of the interest?
-

Applicant Services Disclosure

1. Does the applicant have **any existing financing (mortgage, deeds of trust, cross-collateralization, etc) or are they considering any financing** in connection with the subject of the application or any business operating or to be operated on the property?

Yes **No**

- If **yes**, identify the financial institutions providing the service.
-

2. Does the applicant have a **real estate broker/agent/realtor** for current and anticipated future sales of the subject property?

Yes **No**

- If **yes**, identify the company and individual providing the service.
-

3. Does the applicant have services for **accounting and/or preparation of tax returns** provided in connection with the subject of the application or any business operating or to be operated on the property? **Yes** **No**

- If **yes**, identify the firm and individual providing the service.
-

4. Does the applicant have services from an **architect/landscape architect/land planner** provided in connection with the subject of the application or any business operating or to be operated on the property? **Yes** **No**

- If **yes**, identify the firm and individual providing the service.
-

5. Is there any other **pending or proposed purchaser** of the subject property? **Yes** **No**

- If **yes**, identify the purchaser and purchaser's service providers.
-

Disclosure Statement



6. Does the applicant have a **construction contractor** in connection with the subject of the application or any business operating or to be operated on the property? Yes No

- If **yes**, identify the company and individual providing the service.

7. Does the applicant have an **engineer/surveyor/agent** in connection with the subject of the application or any business operating or to be operated on the property? Yes No

- If **yes**, identify the firm and individual providing the service.

MARINE ENGINEERING LLC DAVID KLEDZIK

8. Is the applicant receiving **legal services** in connection with the subject of the application or any business operating or to be operated on the property? Yes No

- If **yes**, identify the firm and individual providing the service.

Applicant Signature

I certify that all of the information contained in this Disclosure Statement Form is complete, true, and accurate. I understand that, upon receipt of notification that the application has been scheduled for public hearing, I am responsible for updating the information provided herein two weeks prior to the meeting of Planning Commission, City Council, VBDA, CBPA, Wetlands Board or any public body or committee in connection with this application.

Applicant Signature

James Stolar Registered Agent for BBCA

Print Name and Title

2-16-22

Date

Is the applicant also the owner of the subject property? Yes No

- If **yes**, you do not need to fill out the owner disclosure statement.

FOR CITY USE ONLY/ All disclosures must be updated two (2) weeks prior to any Planning Commission and City Council meeting that pertains to the applications

<input type="checkbox"/>	No changes as of	Date	Signature	
			Print Name	

Disclosure Statement



The disclosures contained in this form are necessary to inform public officials who may vote on the application as to whether they have a conflict of interest under Virginia law. The completion and submission of this form is required for all applications that pertain to City real estate matters or to the development and/or use of property in the City of Virginia Beach requiring action by the City Council or a City board, commission or other body.

Applicant Disclosure

Applicant Name TASSOS J PAPHITES

Does the applicant have a representative? **Yes** **No**

- If **yes**, list the name of the representative.

DAVID KLEDZIK

Is the applicant a corporation, partnership, firm, business, trust or an unincorporated business? **Yes** **No**

- If **yes**, list the names of all officers, directors, members, trustees, etc. below. (Attach a list if necessary)

- If **yes**, list the businesses that have a parent-subsiary¹ or affiliated business entity² relationship with the applicant. (Attach a list if necessary)

¹ "Parent-subsiary relationship" means "a relationship that exists when one corporation directly or indirectly owns shares possessing more than 50 percent of the voting power of another corporation." See State and Local Government Conflict of Interests Act, VA. Code § 2.2-3101.

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Disclosure Statement



Known Interest by Public Official or Employee

Does an official or employee of the City of Virginia Beach have an interest in the subject land or any proposed development contingent on the subject public action? Yes No

- If yes, what is the name of the official or employee and what is the nature of the interest?
-

Applicant Services Disclosure

1. Does the applicant have any existing financing (mortgage, deeds of trust, cross-collateralization, etc) or are they considering any financing in connection with the subject of the application or any business operating or to be operated on the property?

Yes No

- If yes, identify the financial institutions providing the service.
-

2. Does the applicant have a real estate broker/agent/realtor for current and anticipated future sales of the subject property?

Yes No

- If yes, identify the company and individual providing the service.
-

3. Does the applicant have services for accounting and/or preparation of tax returns provided in connection with the subject of the application or any business operating or to be operated on the property? Yes No

- If yes, identify the firm and individual providing the service.
-

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MARINE ENGINEERING LLC DAVID KLEDZIK

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- If yes, identify the firm and individual providing the service.

Applicant Signature

I certify that all of the information contained in this Disclosure Statement Form is complete, true, and accurate. I understand that, upon receipt of notification that the application has been scheduled for public hearing, I am responsible for updating the information provided herein two weeks prior to the meeting of Planning Commission, City Council, VBDA, CBPA, Wetlands Board or any public body or committee in connection with this application.

Applicant Signature

Tassos Paphites

Print Name and Title

2/16/22

Date

Is the applicant also the owner of the subject property? Yes No

- If yes, you do not need to fill out the owner disclosure statement.

FOR CITY USE ONLY/ All disclosures must be updated two (2) weeks prior to any Planning Commission and City Council meeting that pertains to the applications

<input type="checkbox"/>	No changes as of	Date	Signature	
			Print Name	

FOR AGENCY USE ONLY

	Notes:
JPA#	

APPLICANTS

PLEASE PRINT OR TYPE ALL ANSWERS. If a question does not apply to your project, please print N/A (not applicable) in the space provided. **If additional space is needed, attach extra 8 1/2 x 11 inch sheets of paper.**

Check all that apply

<input type="checkbox"/> Pre-Construction Notification (PCN) <input type="checkbox"/> NWP # _____ <input type="checkbox"/> RP # 05 <i>(For NWP's & RP 05 ONLY - No DEQ-VWP permit writer will be assigned)</i>	<input type="checkbox"/> SPGP	<input type="checkbox"/> DEQ Reapplication Existing permit number: _____	<input type="checkbox"/> Receiving federal funds Agency providing funding: _____
<input type="checkbox"/> Regional Permit 17 Checklist (RP-17)			

PREVIOUS ACTIONS RELATED TO THE PROPOSED WORK (Include all federal, state, and local pre application coordination, site visits, previous permits, or applications whether issued, withdrawn, or denied)

Historical information for past permit submittals can be found online with VMRC - <https://webapps.mrc.virginia.gov/public/habitat/> - or VIMS - <http://ccrm.vims.edu/perms/newpermits.html>

Agency	Action / Activity	Permit/Project number, including any non-reporting Nationwide permits previously used (e.g., NWP 13)	Date of Action	If denied, give reason for denial
VB	dredge jetty	vb02-202 vb03-176	10/16/2002 8/26/2003	
VMRC COE	dredge jetty	90-V0260 / 02-V1280 03-1368	2/1/1991 7/22/2002 7/112003	

1. APPLICANT, AGENT, PROPERTY OWNER, AND CONTRACTOR INFORMATION

The applicant(s) is/are the legal entity to which the permit may be issued (see How to Apply at beginning of form). The applicant(s) can either be the property owner(s) or the person/people/company(ies) that intend(s) to undertake the activity. The agent is the person or company that is representing the applicant(s). If a company, please also provide the company name that is registered with the State Corporation Commission (SCC), or indicate no registration with the SCC.

Legal Name(s) of Applicant(s) Broad Bay Canal Association /JAMES STOTLAR				Agent (if applicable) Marine Engineering LLC		
Mailing address 1805 Broad Bay Circle				Mailing address PO Box 5965		
City Virginia Beach	State VA	ZIP Code 23454	City Virginia Beach	State VA	ZIP Code 23471	
Phone number w/area code	Fax		Phone number w/area code	Fax		
Mobile 757 286-6251	E-mail jay@yourcleanroomsupplier.com		Mobile 757 477-4787	E-mail David@MarineEngineeringLLC.com		
State Corporation Commission Name and ID number (if applicable)			State Corporation Commission Name and ID number (if applicable)			

Certain permits or permit authorizations may be provided via electronic mail. If the applicant wishes to receive their permit via electronic mail, please provide an e-mail address here: jay@yourcleanroomsupplier.com

FOR AGENCY USE ONLY

	Notes:
JPA#	

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Legal Name(s) of Applicant(s) Tassos Paphites (Co-Applicant)				Agent (if applicable) Marine Engineering LLC		
Mailing address 1800 Broad Bay Circle				Mailing address PO Box 5965		
City Virginia Beach	State VA	ZIP Code 23454	City Virginia Beach	State VA	ZIP Code 23471	
Phone number w/area code	Fax		Phone number w/area code	Fax		
Mobile 757-377-9410	E-mail tpaphites@burgerbusters.com		Mobile 757 477-4787	E-mail David@MarineEngineeringLLC.com		
State Corporation Commission Name and ID number (if applicable)			State Corporation Commission Name and ID number (if applicable)			

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APPLICANTS

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Legal Name(s) of Applicant(s) David Ervin (Co-Applicant)				Agent (if applicable) Marine Engineering LLC		
Mailing address 1841 N ALANTON DR				Mailing address PO Box 5965		
City Virginia Beach	State VA	ZIP Code 23454	City Virginia Beach	State VA	ZIP Code 23471	
Phone number w/area code	Fax		Phone number w/area code	Fax		
Mobile 757 652-8127	E-mail dervin@meb.group		Mobile 757 477-4787	E-mail David@MarineEngineeringLLC.com		
State Corporation Commission Name and ID number (if applicable)			State Corporation Commission Name and ID number (if applicable)			

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APPLICANTS

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Legal Name(s) of Applicant(s) MICHAEL M EVANS (Co-Applicant)			Agent (if applicable) Marine Engineering LLC		
Mailing address 1801 Broad Bay Circle			Mailing address PO Box 5965		
City Virginia Beach	State VA	ZIP Code 23454	City Virginia Beach	State VA	ZIP Code 23471
Phone number w/area code	Fax		Phone number w/area code	Fax	
Mobile 757 639-5002	E-mail mmedke@cox.net		Mobile 757 477-4787	E-mail David@MarineEngineeringLLC.com	
State Corporation Commission Name and ID number (if applicable)			State Corporation Commission Name and ID number (if applicable)		

Certain permits or permit authorizations may be provided via electronic mail. If the applicant wishes to receive their permit via electronic mail, please provide an e-mail address here: jay@yourcleanroomsupplier.com

1. APPLICANT, AGENT, PROPERTY OWNER, AND CONTRACTOR INFORMATION (Continued)

Property owner(s) legal name, if different from applicant N/A			Contractor, if known N/A		
Mailing address			Mailing address		
City	State	ZIP code	City	State	ZIP code
Phone number w/area code	Fax		Phone number w/area code	Fax	
Mobile	E-mail		Mobile	E-mail	
State Corporation Commission Name and ID number (if applicable)			State Corporation Commission Name ID number (if applicable)		

2. PROJECT LOCATION INFORMATION
(Attach a copy of a detailed map, such as a USGS topographic map or street map showing the site location and project boundary, so that it may be located for inspection. Include an arrow indicating the north direction. Include the drainage area if the SPGP box is checked on Page 7.)

Street Address (911 address if available) 1805 Broad Bay Circle	City/County/ZIP Code Virginia Beach 23454
Subdivision	Lot/Block/Parcel #
Name of water body(ies) within project boundaries and drainage area (acres or square miles). MAN MADE CANAL & BROAD BAY DRAINING 0.2 SQUARE MILES	
Tributary(ies) to: <u>BROAD BAY</u> Basin: <u>LYNNHAVEN</u> Sub-basin: <u>BROAD BAY</u> (Example: Basin: <u>James River</u> Sub-basin: <u>Middle James River</u>)	
Special Standards (based on DEQ Water Quality Standards 9VAC25-260 et seq.): _____	
Project type (check one) <input type="checkbox"/> Single user (private, non-commercial, residential) <input checked="" type="checkbox"/> Multi-user (community, commercial, industrial, government) <input type="checkbox"/> Surface water withdrawal	
Latitude and longitude at center of project site (decimal degrees): <u>36.89188</u> / <u>-76.02914</u> (Example: 37.33164/-77.68200)	
USGS topographic map name: <u>N/A</u>	
8-digit USGS Hydrologic Unit Code (HUC) for your project site (See http://cfpub.epa.gov/surf/locate/index.cfm): <u>02080108</u> If known, indicate the 10-digit and 12-digit USGS HUCs (see http://consapps.dcr.virginia.gov/htdocs/maps/HUExplorer.htm): _____	
Name of your project (Example: <i>Water Creek driveway crossing</i>) <u>BROAD BAY CIRCLE</u>	
Is there an access road to the project? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No. If yes, check all that apply: <input checked="" type="checkbox"/> public <input type="checkbox"/> private <input checked="" type="checkbox"/> improved <input type="checkbox"/> unimproved	
Total size of the project area (in acres): <u>0.64</u>	

2. PROJECT LOCATION INFORMATION (Continued)

Provide driving directions to your site, giving distances from the best and nearest visible landmarks or major intersections:

Beginning at intersection of Mill Dam Road and S Woodhouse Rd. Proceed NE on S Woodhouse Rd approximately 500 feet then turn north on Stephens Rd and proceed for approximately 4700 feet then turn NE on Broad Bay Cir to arrive at 1805 Broad Bay Cir.

Does your project site cross boundaries of two or more localities (i.e., cities/counties/towns)? Yes No

If so, name those localities:

3. DESCRIPTION OF THE PROJECT, PROJECT PRIMARY AND SECONDARY PURPOSES, PROJECT NEED, INTENDED USE(S), AND ALTERNATIVES CONSIDERED (Attach additional sheets if necessary)

- The purpose and need must include any new development or expansion of an existing land use and/or proposed future use of residual land.
- Describe the physical alteration of surface waters, including the use of pilings (#, materials), vibratory hammers, explosives, and hydraulic dredging, when applicable, and whether or not tree clearing will occur (include the area in square feet and time of year).
- Include a description of alternatives considered and measures taken to avoid or minimize impacts to surface waters, including wetlands, to the maximum extent practicable. Include factors such as, but not limited to, alternative construction technologies, alternative project layout and design, alternative locations, local land use regulations, and existing infrastructure
- For utility crossings, include both alternative routes and alternative construction methodologies considered
- For surface water withdrawals, public surface water supply withdrawals, or projects that will alter in stream flows, include the water supply issues that form the basis of the proposed project.

Maintenance dredge 27751 SF & 2159 CY channel and driveways to depth of 4 - 6 ft to remove accumulations of sand shoals from littoral drift at mouth of inlet and canal . Also to maintenance dredge certain private driveway basins within canal system. Replace timber jetty with 10 FT additional length. Jetty will use 45 8" piles anticipated to be installed by vibratory hammer. No trees to be removed. Dredge is entirely subaqueous. New jetty will impact a two foot wide strip of beach & intertidal area .

Date of proposed commencement of work (MM/DD/YYYY)

5/1/2022

Date of proposed completion of work (MM/DD/YYYY)

6/30/2022

Are you submitting this application at the direction of any state, local, or federal agency? ____ Yes x No

Has any work commenced or has any portion of the project for which you are seeking a permit been completed?

____ Yes x No

If you answered "yes" to either question above, give details stating when the work was completed and/or when it commenced, who performed the work, and which agency (if any) directed you to submit this application. In addition, you will need to clearly differentiate between completed work and proposed work on your project drawings.

Are you aware of any unresolved violations of environmental law or litigation involving the property? ____ Yes x No
(If yes, please explain)

4. PROJECT COSTS

Approximate cost of the entire project, including materials and labor: \$ 275,000
Approximate cost of only the portion of the project affecting state waters (channelward of mean low water in tidal areas and below ordinary high water mark in nontidal areas): \$ 175,000

5. PUBLIC NOTIFICATION (Attach additional sheets if necessary)

Complete information for all property owners adjacent to the project site and across the waterway, if the waterway is less than 500 feet in width. If your project is located within a cove, you will need to provide names and mailing addresses for all property owners within the cove. If you own the adjacent lot, provide the requested information for the first adjacent parcel beyond your property line. Per Army Regulation (AR 25-51) outgoing correspondence must be addressed to a person or business.

Failure to provide this information may result in a delay in the processing of your application by VMRC.

Property owner's name	Mailing address	City	State	ZIP code
CORY R BEISEL	1804 BROAD BAY CIR	VIRGINIA BEACH	VA	23454
TASSOS J PAPHITES	1800 BROAD BAY CIR	VIRGINIA BEACH	VA	23454
MICHAEL M EVANS	1801 BROAD BAY CIR	VIRGINIA BEACH	VA	23454
JAMES E STOTLAR	1805 BROAD BAY CIR	VIRGINIA BEACH	VA	23454
VIRGINIA M HAWLEY	1650 STEPHENS RD	VIRGINIA BEACH	VA	23454
JANICE G WELLS	1837 N ALANTON DR	VIRGINIA BEACH	VA	23454
DAVID ERVIN	1841 N ALANTON DR	VIRGINIA BEACH	VA	23454
VIVIAN Y KIRKENDOLL	1845 N ALANTON DR	VIRGINIA BEACH	VA	23454
JEFFREY M TOURAULT	1848 N ALANTON DR	VIRGINIA BEACH	VA	23454

Name of newspaper having general circulation in the area of the project: Virginian Pilot
Address and phone number (including area code) of newspaper: 150 W BRAMBLETON AVE NORFOLK, VA 23509 (757) 222-5346

Have adjacent property owners been notified with forms in Appendix A? Yes No (attach copies of distributed forms)

6. THREATENED AND ENDANGERED SPECIES INFORMATION

Please provide any information concerning the potential for your project to impact state and/or federally threatened and endangered species (listed or proposed). Attach correspondence from agencies and/or reference materials that address potential impacts, such as database search results or confirmed waters and wetlands delineation/jurisdictional determination. Include information when applicable regarding the location of the project in Endangered Species Act-designated or -critical habitats. Contact information for the U.S. Fish and Wildlife Service, National Oceanic and Atmospheric Administration, Virginia Dept. of Game and Inland Fisheries, and the Virginia Dept. of Conservation and Recreation-Division of Natural Heritage can be found on page 4 of this package.

7. HISTORIC RESOURCES INFORMATION

Note: Historic properties include but are not limited to archeological sites, battlefields, Civil War earthworks, graveyards, buildings, bridges, canals, etc. Prospective permittees should be aware that section 110k of the NHPA (16 U.S.C. 470h-2(k)) prevents the USACE from granting a permit or other assistance to an applicant who, with intent to avoid the requirements of Section 106 of the NHPA, has intentionally significantly adversely affected a historic property to which the permit would relate, or having legal power to prevent it, allowed such significant adverse effect to occur, unless the USACE, after consultation with the Advisory Council on Historic Preservation (ACHP), determines that circumstances justify granting such assistance despite the adverse effect created or permitted by the applicant.

Are any historic properties located within or adjacent to the project site? Yes No Uncertain
If Yes, please provide a map showing the location of the historic property within or adjacent to the project site.

Are there any buildings or structures 50 years old or older located on the project site? Yes No Uncertain
If Yes, please provide a map showing the location of these buildings or structures on the project site.

Is your project located within a historic district? Yes No Uncertain

If Yes, please indicate which district: _____

7. HISTORIC RESOURCES INFORMATION (Continued)

Has a survey to locate archeological sites and/or historic structures been carried out on the property?

Yes No Uncertain

If Yes, please provide the following information: Date of Survey: _____

Name of firm: _____

Is there a report on file with the Virginia Department of Historic Resources? Yes No Uncertain

Title of Cultural Resources Management (CRM) report: _____

Was any historic property located? Yes No Uncertain

8. WETLANDS, WATERS, AND DUNES/BEACHES IMPACT INFORMATION

Report each impact site in a separate column. If needed, attach additional sheets using a similar table format. Please ensure that the associated project drawings clearly depict the location and footprint of each numbered impact site. For dredging, mining, and excavating projects, use Section 17.

	Impact site number 1	Impact site number 2	Impact site number 3	Impact site number 4	Impact site number 5
Impact description (use all that apply): F=fill EX=excavation S=Structure T=tidal NT=non-tidal TE=temporary PE=permanent PR=perennial IN=intermittent SB=subaqueous bottom DB=dune/beach IS=hydrologically isolated V=vegetated NV=non-vegetated MC=Mechanized Clearing of PFO (Example: F, NT, PE, V)	Dredge EX T PE SB NV	Groin / Jetty S T PE SB DB NV			
Latitude / Longitude (in decimal degrees)	36.89188 -76.02914	36.89188 -76.02914			
Wetland/waters impact area (square feet / acres)	27751 SUB	64 INT / 73 SUB			
Dune/beach impact area (square feet)	0	4.5 BEACH			
Stream dimensions at impact site (length and average width in linear feet, and area in square feet)	N/A	N/A			
Volume of fill below Mean High Water or Ordinary High Water (cubic yards)	0	0			

8. WETLANDS/WATERS IMPACT INFORMATION (Continued)

Cowardin classification of impacted wetland/water or geomorphological classification of stream <i>Example wetland: PFO;</i> <i>Example stream: 'C' channel and if tidal, whether vegetated or non-vegetated wetlands per Section 28.2-1300 of the Code of Virginia</i>	E1 UB- 2,3,4	E2 US- 2			
Average stream flow at site (flow rate under normal rainfall conditions in cubic feet per second) and method of deriving it (gage, estimate, etc.)	N/A	N/A			
Contributing drainage area in acres or square miles (VMRC cannot complete review without this information)	0.2 SQ MILE	0.2 SQ MILE			
DEQ classification of impacted resource(s): Estuarine Class II Non-tidal waters Class III Mountainous zone waters Class IV Stockable trout waters Class V Natural trout waters Class VI Wetlands Class VII https://law.lis.virginia.gov	ESTAURINE CLASS II	ESTAURINE CLASS II			

For DEQ permitting purposes, also submit as part of this section a wetland and waters boundary delineation map – see (3) in the Footnotes section in the form instructions.

For DEQ permitting purposes, also submit as part of this section a written disclosure of all wetlands, open water, or streams that are located within the proposed project or compensation areas that are also under a deed restriction, conservation easement, restrictive covenant, or other land-use protective instrument.

9. APPLICANT, AGENT, PROPERTY OWNER, AND CONTRACTOR CERTIFICATIONS

READ ALL OF THE FOLLOWING CAREFULLY BEFORE SIGNING

PRIVACY ACT STATEMENT: The Department of the Army permit program is authorized by Section 10 of the Rivers and Harbors Act of 1899, Section 404 of the Clean Water Act, and Section 103 of the Marine Protection Research and Sanctuaries Act of 1972. These laws require that individuals obtain permits that authorize structures and work in or affecting navigable waters of the United States, the discharge of dredged or fill material into waters of the United States, and the transportation of dredged material for the purpose of dumping it into ocean waters prior to undertaking the activity. Information provided in the Joint Permit Application will be used in the permit review process and is a matter of public record once the application is filed. Disclosure of the requested information is voluntary, but it may not be possible to evaluate the permit application or to issue a permit if the information requested is not provided.

CERTIFICATION: I am hereby applying for permits typically issued by the DEQ, VMRC, USACE, and/or Local Wetlands Boards for the activities I have described herein. I agree to allow the duly authorized representatives of any regulatory or advisory agency to enter upon the premises of the project site at reasonable times to inspect and photograph site conditions, both in reviewing a proposal to issue a permit and after permit issuance to determine compliance with the permit.

In addition, I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

9. APPLICANT, AGENT, PROPERTY OWNER, AND CONTRACTOR CERTIFICATIONS (Continued)

Is/Are the Applicant(s) and Owner(s) the same? Yes No

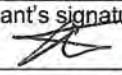
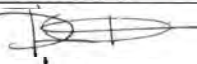
Legal name & title of Applicant BROAD BAY CANAL ASSOCIATION	Second applicant's legal name & title, if applicable
Applicant's signature  James Stotlar Registered Agent	Second applicant's signature
Date 2-16-22	Date
Property owner's legal name, if different from Applicant	Second property owner's legal name, if applicable
Property owner's signature, if different from Applicant	Second property owner's signature
Date	Date

CERTIFICATION OF AUTHORIZATION TO ALLOW AGENT(S) TO ACT ON APPLICANT(S)' BEHALF (IF APPLICABLE)

I (we), **BROAD BAY CANAL ASSOCIATION** (and) _____
 APPLICANT'S LEGAL NAME(S) – complete the second blank if more than one Applicant

hereby certify that I (we) have authorized **MARINE ENGINEERING LLC** (and) _____
 AGENT'S NAME(S) – complete the second blank if more than one Agent

to act on my (our) behalf and take all actions necessary to the processing, issuance, and acceptance of this permit and any and all standard and special conditions attached. I (we) hereby certify that the information submitted in this application is true and accurate to the best of my (our) knowledge.

Applicant's signature 	Second applicant's signature, if applicable
Date 2-16-22	Date
Agent's signature and title  Mgr	Second agent's signature and title, if applicable
Date 3/20/2022	Date

N/A

CONTRACTOR ACKNOWLEDGEMENT (IF APPLICABLE)

I (we), _____ (and) _____
 APPLICANT'S LEGAL NAME(S) – complete the second blank if more than one Applicant

have contracted _____ (and) _____
 CONTRACTOR'S NAME(S) – complete the second blank if more than one Contractor

to perform the work described in this Joint Permit Application, signed and dated _____.

I (we) will read and abide by all conditions as set forth in all federal, state, and local permits as required for this project. I (we) understand that failure to follow the conditions of the permits may constitute a violation of applicable federal, state, and local statutes and that we will be liable for any civil and/or criminal penalties imposed by these statutes. In addition, I (we) agree to make available a copy of any permit to any regulatory representative visiting the project site to ensure permit compliance. If I (we) fail to provide the applicable permit upon request, I (we) understand that the representative will have the option of stopping our operation until it has been determined that we have a properly signed and executed permit and are in full compliance with all of the terms and conditions.

Contractor's name or name of firm (printed/typed)	Contractor's or firm's mailing address	
Contractor's signature and title	Contractor's license number	Date
Applicant's signature	Second applicant's signature, if applicable	
Date	Date	

9. APPLICANT, AGENT, PROPERTY OWNER, AND CONTRACTOR CERTIFICATIONS (Continued)

Is/Are the Applicant(s) and Owner(s) the same? Yes No

Legal name & title of Applicant TASSOS J PAPHITES	Second applicant's legal name & title, if applicable
Applicant's signature <i>Tassos Paphites</i>	Second applicant's signature
Date 2/16/22	Date
Property owner's legal name, if different from Applicant	Second property owner's legal name, if applicable
Property owner's signature, if different from Applicant	Second property owner's signature
Date	Date

CERTIFICATION OF AUTHORIZATION TO ALLOW AGENT(S) TO ACT ON APPLICANT'S(S)' BEHALF (IF APPLICABLE)

I (we), TASSOS J PAPHITES (and) _____,
 APPLICANT'S LEGAL NAME(S) – complete the second blank if more than one Applicant

hereby certify that I (we) have authorized MARINE ENGINEERING LLC
 AGENT'S NAME(S) – complete the second blank if more than one Agent

to act on my (our) behalf and take all actions necessary to the processing, issuance, and acceptance of this permit and any and all standard and special conditions attached. I (we) hereby certify that the information submitted in this application is true and accurate to the best of my (our) knowledge.

Applicant's signature <i>Tassos Paphites</i>	Second applicant's signature, if applicable
Date 2/16/22	Date
Agent's signature and title <i>[Signature]</i> Mgr	Second agent's signature and title, if applicable
Date 3/10/2022	Date

N/A

CONTRACTOR ACKNOWLEDGEMENT (IF APPLICABLE)

I (we), _____ (and) _____,
 APPLICANT'S LEGAL NAME(S) – complete the second blank if more than one Applicant

have contracted _____ (and) _____,
 CONTRACTOR'S NAME(S) – complete the second blank if more than one Contractor

to perform the work described in this Joint Permit Application, signed and dated _____.

I (we) will read and abide by all conditions as set forth in all federal, state, and local permits as required for this project. I (we) understand that failure to follow the conditions of the permits may constitute a violation of applicable federal, state, and local statutes and that we will be liable for any civil and/or criminal penalties imposed by these statutes. In addition, I (we) agree to make available a copy of any permit to any regulatory representative visiting the project site to ensure permit compliance. If I (we) fail to provide the applicable permit upon request, I (we) understand that the representative will have the option of stopping our operation until it has been determined that we have a properly signed and executed permit and are in full compliance with all of the terms and conditions.

Contractor's name or name of firm (printed/typed)	Contractor's or firm's mailing address	
Contractor's signature and title	Contractor's license number	Date
Applicant's signature	Second applicant's signature, if applicable	
Date	Date	

9. APPLICANT, AGENT, PROPERTY OWNER, AND CONTRACTOR CERTIFICATIONS (Continued)

Is/Are the Applicant(s) and Owner(s) the same? Yes No

Legal name & title of Applicant DAVID ERVIN	Second applicant's legal name & title, if applicable
Applicant's signature <i>David Ervin</i>	Second applicant's signature
Date 2/16/22	Date
Property owner's legal name, if different from Applicant	Second property owner's legal name, if applicable
Property owner's signature, if different from Applicant	Second property owner's signature
Date	Date

CERTIFICATION OF AUTHORIZATION TO ALLOW AGENT(S) TO ACT ON APPLICANT(S) BEHALF (IF APPLICABLE)

I (we), DAVID ERVIN (and) _____,
 APPLICANT'S LEGAL NAME(S) – complete the second blank if more than one Applicant

hereby certify that I (we) have authorized MARINE ENGINEERING LLC (and) _____
 AGENT'S NAME(S) – complete the second blank if more than one Agent

to act on my (our) behalf and take all actions necessary to the processing, issuance, and acceptance of this permit and any and all standard and special conditions attached. I (we) hereby certify that the information submitted in this application is true and accurate to the best of my (our) knowledge.

Applicant's signature <i>David Ervin</i>	Second applicant's signature, if applicable
Date 2/16/22	Date
Agent's signature and title <i>[Signature]</i> Mgr	Second agent's signature and title, if applicable
Date 3/10/2022	Date

N/A

CONTRACTOR ACKNOWLEDGEMENT (IF APPLICABLE)

I (we), _____ (and) _____,
 APPLICANT'S LEGAL NAME(S) – complete the second blank if more than one Applicant

have contracted _____ (and) _____
 CONTRACTOR'S NAME(S) – complete the second blank if more than one Contractor

to perform the work described in this Joint Permit Application, signed and dated _____.

I (we) will read and abide by all conditions as set forth in all federal, state, and local permits as required for this project. I (we) understand that failure to follow the conditions of the permits may constitute a violation of applicable federal, state, and local statutes and that we will be liable for any civil and/or criminal penalties imposed by these statutes. In addition, I (we) agree to make available a copy of any permit to any regulatory representative visiting the project site to ensure permit compliance. If I (we) fail to provide the applicable permit upon request, I (we) understand that the representative will have the option of stopping our operation until it has been determined that we have a properly signed and executed permit and are in full compliance with all of the terms and conditions.

Contractor's name or name of firm (printed/typed)	Contractor's or firm's mailing address	
Contractor's signature and title	Contractor's license number	Date
Applicant's signature	Second applicant's signature, if applicable	
Date	Date	

9. APPLICANT, AGENT, PROPERTY OWNER, AND CONTRACTOR CERTIFICATIONS (Continued)



Is/Are the Applicant(s) and Owner(s) the same? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Legal name & title of Applicant MICHAEL M EVANS	Second applicant's legal name & title, if applicable
Applicant's signature 	Second applicant's signature
Date 2/18/22	Date
Property owner's legal name, if different from Applicant	Second property owner's legal name, if applicable
Property owner's signature, if different from Applicant	Second property owner's signature
Date	Date

CERTIFICATION OF AUTHORIZATION TO ALLOW AGENT(S) TO ACT ON APPLICANT'S(S)' BEHALF (IF APPLICABLE)

I (we), MICHAEL M EVANS (and) _____
 APPLICANT'S LEGAL NAME(S) – complete the second blank if more than one Applicant

hereby certify that I (we) have authorized MARINE ENGINEERING LLC (and) _____
 AGENT'S NAME(S) – complete the second blank if more than one Agent

to act on my (our) behalf and take all actions necessary to the processing, issuance, and acceptance of this permit and any and all standard and special conditions attached. I (we) hereby certify that the information submitted in this application is true and accurate to the best of my (our) knowledge.

Applicant's signature 	Second applicant's signature, if applicable
Date 2/18/22	Date
Agent's signature and title  Mgr	Second agent's signature and title, if applicable
Date 3/21/08/2022	Date

N/A

CONTRACTOR ACKNOWLEDGEMENT (IF APPLICABLE)

I (we), _____ (and) _____
 APPLICANT'S LEGAL NAME(S) – complete the second blank if more than one Applicant

have contracted _____ (and) _____
 CONTRACTOR'S NAME(S) – complete the second blank if more than one Contractor

to perform the work described in this Joint Permit Application, signed and dated _____.

I (we) will read and abide by all conditions as set forth in all federal, state, and local permits as required for this project. I (we) understand that failure to follow the conditions of the permits may constitute a violation of applicable federal, state, and local statutes and that we will be liable for any civil and/or criminal penalties imposed by these statutes. In addition, I (we) agree to make available a copy of any permit to any regulatory representative visiting the project site to ensure permit compliance. If I (we) fail to provide the applicable permit upon request, I (we) understand that the representative will have the option of stopping our operation until it has been determined that we have a properly signed and executed permit and are in full compliance with all of the terms and conditions.

Contractor's name or name of firm (printed/typed)	Contractor's or firm's mailing address	
Contractor's signature and title	Contractor's license number	Date
Applicant's signature	Second applicant's signature, if applicable	
Date	Date	

15. TIDAL/NONTIDAL SHORELINE STABILIZATION STRUCTURES (INCLUDING BULKHEADS AND ASSOCIATED BACKFILL, RIPRAP REVETMENTS AND ASSOCIATED BACKFILL, MARSH TOE STABILIZATION, GROINS, JETTIES, AND BREAKWATERS, ETC.) Information on non structural, vegetative alternatives (i.e., Living Shoreline) for shoreline stabilization is available at http://ccrm.vims.edu/coastal_zone/living_shorelines/index.html.

Is any portion of the project maintenance or replacement of an existing and currently serviceable structure? Yes No
 If yes, give length of existing structure: 110 linear feet

If your maintenance project entails replacement of a bulkhead, is it possible to construct the replacement bulkhead within 2 feet channelward of the existing bulkhead? Yes No If not, please explain below:

Length of proposed structure, including returns: 120 linear feet

Average channelward encroachment of the structure from Mean high water/ordinary high water mark: <u>102</u> feet	Maximum channelward encroachment of the structure from Mean high water/ordinary high water mark: <u>120</u> feet
Mean low water: <u>67</u> feet	Mean low water: <u>88</u> feet

Maximum channelward encroachment from the back edge of the Dune _____ feet	Maximum channelward encroachment from the back edge of the Beach <u>120</u> feet
--	--

Describe the type of construction including all materials to be used (including all fittings). Will filter cloth be used? Yes No

vinyl sheetpile jetty with timber piles/wales and steel fasteners

What is the source of the backfill material? _____

What is the composition of the backfill material? _____

If rock is to be used, give the average volume of material to be used for every linear foot of construction: _____ cubic yards
 What is the volume of material to be placed below the plane of ordinary high water mark/mean high water? _____ cubic yards

For projects involving stone:
 Average weight of core material (bottom layers): _____ pounds per stone (Class _____)
 Average weight of armor material (top layers): _____ pounds per stone (Class _____)

Are there similar shoreline stabilization structures in the vicinity of your project site? Yes No
 If so, describe the type(s) and location(s) of the structure(s):

If you are building a groin or jetty, will the channelward end of the structure be marked to show a hazard to navigation?
 Yes No

Has your project been reviewed by the Shoreline Erosion Advisory Service (SEAS)? Yes No
 If yes, please attach a copy of their comments.

16. BEACH NOURISHMENT

Source of material and composition (percentage sand, silt, clay): _____	Volume of material: _____ cubic yards
---	---------------------------------------

Area to be covered _____ square feet channelward of mean low water _____ square feet channelward of mean high water
 _____ square feet landward of mean low water _____ square feet channelward of mean high water

Mode of transportation of material to the project site (truck, pipeline, etc.):

16. BEACH NOURISHMENT (Continued)

Describe the type(s) of vegetation proposed for stabilization and the proposed planting plan, including schedule, spacing, monitoring, etc. Attach additional sheets if necessary.

17. DREDGING, MINING, AND EXCAVATING

FILL OUT THE FOLLOWING TABLE FOR DREDGING PROJECTS

	NEW dredging				MAINTENANCE dredging			
	Hydraulic		Mechanical (clamshell, dragline, etc.)		Hydraulic		Mechanical (clamshell, dragline, etc.)	
	Cubic yards	Square feet	Cubic yards	Square feet	Cubic yards	Square feet	Cubic yards	Square feet
Vegetated wetlands								
Non-vegetated wetlands								
Subaqueous land							2159	27751
Totals							2159	27751

Is this a one-time dredging event? Yes No If "no", how many dredging cycles are anticipated: _____
 (____ initial cycle in cu. yds.) (____ subsequent cycles in cu. yds.)

Composition of material (percentage sand, silt, clay, rock):
 Provide documentation (i.e., laboratory results or analytical reports) that *dredged* material from on-site areas is free of toxics. If not free of toxics, provide documentation of proper disposal (i.e., bill of lading from commercial supplier or disposal site).

80% SAND, 20% SILT

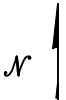
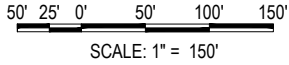
Please include a dredged material management plan that includes specifics on how the dredged material will be handled and retained to prevent its entry into surface waters or wetlands. If on-site dewatering is proposed, please include plan view and cross-sectional drawings of the dewatering area and associated outfall.

ALL DREDGE MATERIALS WILL BE REMOVED BY A LICENSED MARINE CONTRACTOR, LOADED INTO BARGE CONTAINERS AND TRANSPORTED TO THE CONTRACTOR'S APPROVED SITE TO BE OFFLOADED ONTO TRUCKS THEN HAULED TO AN APPROVED LOCATION SUCH AS ISLE OF WIGHT

Will the dredged material be used for any commercial purpose or beneficial use? Yes No
 If yes, please explain:

If this is a maintenance dredging project, what was the date that the dredging was last performed? 2002 _____
 Permit number of original permit: 90-V0260 _____ (It is important that you attach a copy of the original permit.)

SITE PLAN OF PROPOSED DREDGE & GROIN PROJECT



SEQUENCE & TIME LINE OF CONSTRUCTION

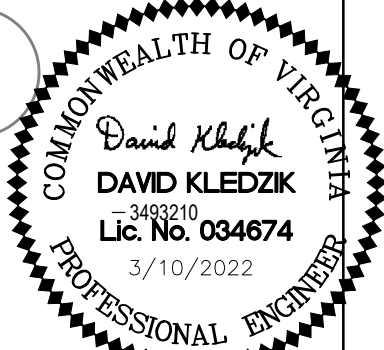
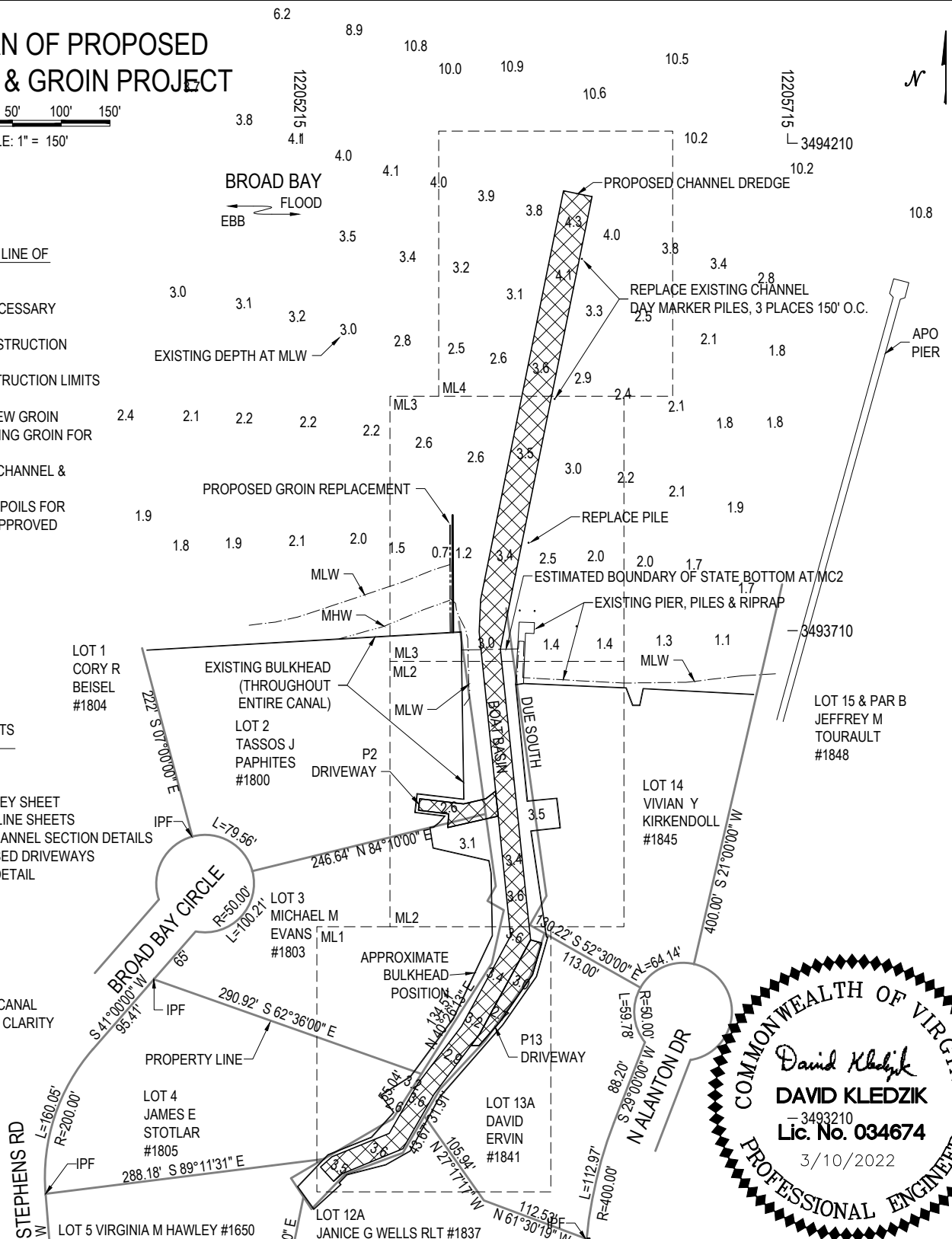
1. OBTAIN ALL NECESSARY PERMITS
2. HOLD PRECONSTRUCTION MEETINGS
3. INSTALL CONSTRUCTION LIMITS ON BEACH
4. CONSTRUCT NEW GROIN
5. REMOVE EXISTING GROIN FOR DISPOSAL
6. DREDGE MAIN CHANNEL & DRIVEWAYS
7. BARGE AWAY SPOILS FOR DISPOSAL AT APPROVED FACILITY

TABLE OF CONTENTS

SHT #	TITLE
1	PLAN - KEY SHEET
2 - 5	MATCH LINE SHEETS
6	MAIN CHANNEL SECTION DETAILS
7 & 8	PROPOSED DRIVEWAYS
9	GROIN DETAIL
10	NOTES

ENCROACHING STRUCTURES IN CANAL NOT SHOWN FOR CLARITY

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APPLICANT:
 BROAD BAY CANAL ASSOCIATION
 1805 BROAD BAY CIRCLE
 VIRGINIA BEACH, VA 23454

ADJACENT PROPERTY OWNERS
 SHOWN ON SHEET ONE

MARINE ENGINEERING LLC
 PO BOX 5965
 VIRGINIA BEACH, VA 23471
 PH: (757) 477-4787

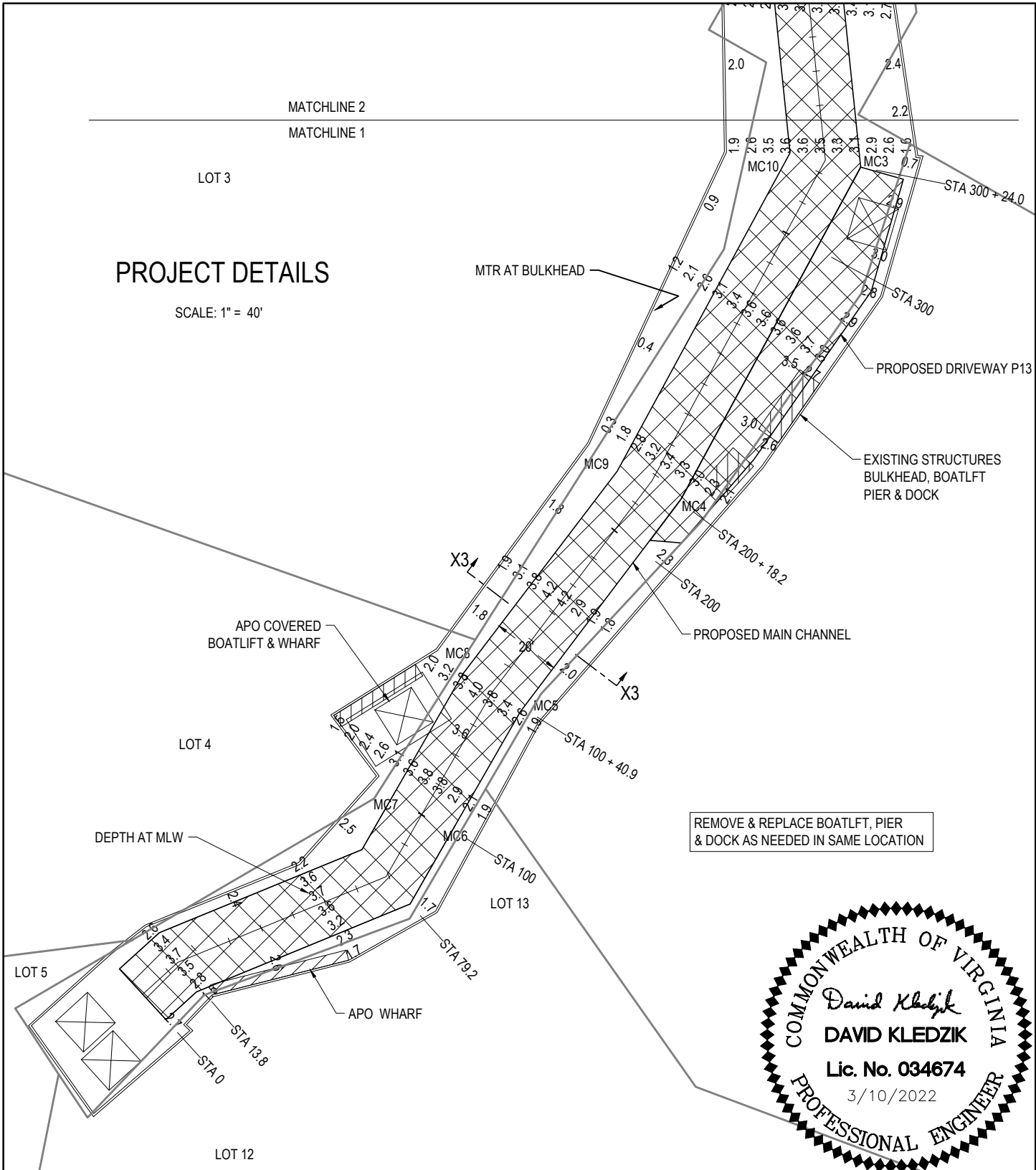
PROPOSED PROJECT FOR WATERCRAFT ACCESS & SAND CAPTURE

DATUM: MLW = 0.00'

SHEET 1 OF 10
 DATE: JANUARY 29, 2022
 REVISION #1 3/10/2022

PROJECT DETAILS

SCALE: 1" = 40'



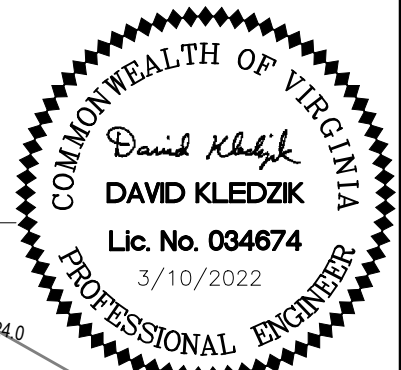
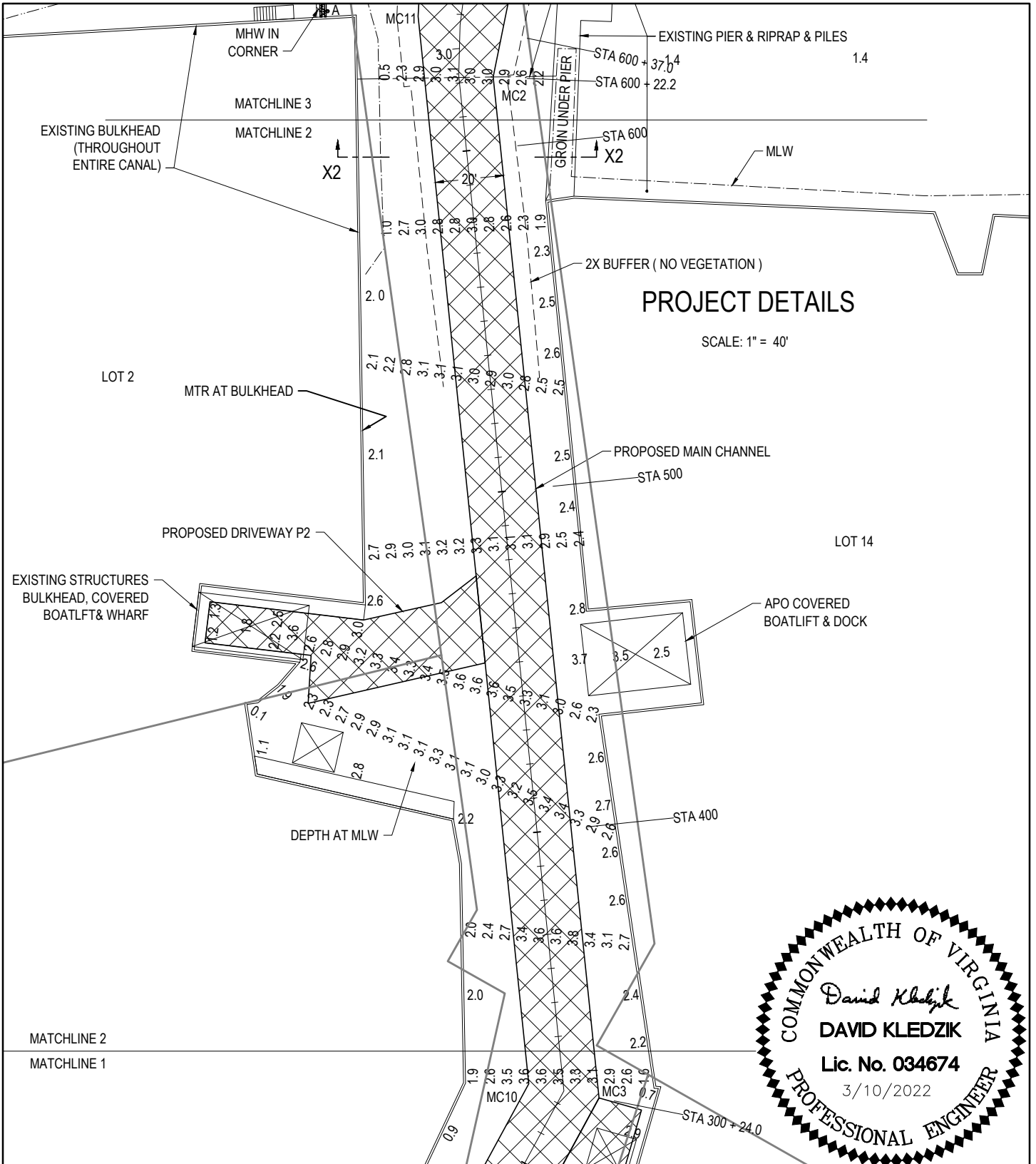
REMOVE & REPLACE BOATLIFT, PIER & DOCK AS NEEDED IN SAME LOCATION



APPLICANT:
 BROAD BAY CANAL ASSOCIATION
 1805 BROAD BAY CIRCLE
 VIRGINIA BEACH, VA 23454

MARINE ENGINEERING LLC
 PO BOX 5965
 VIRGINIA BEACH, VA 23471
 PH: (757) 477-4787

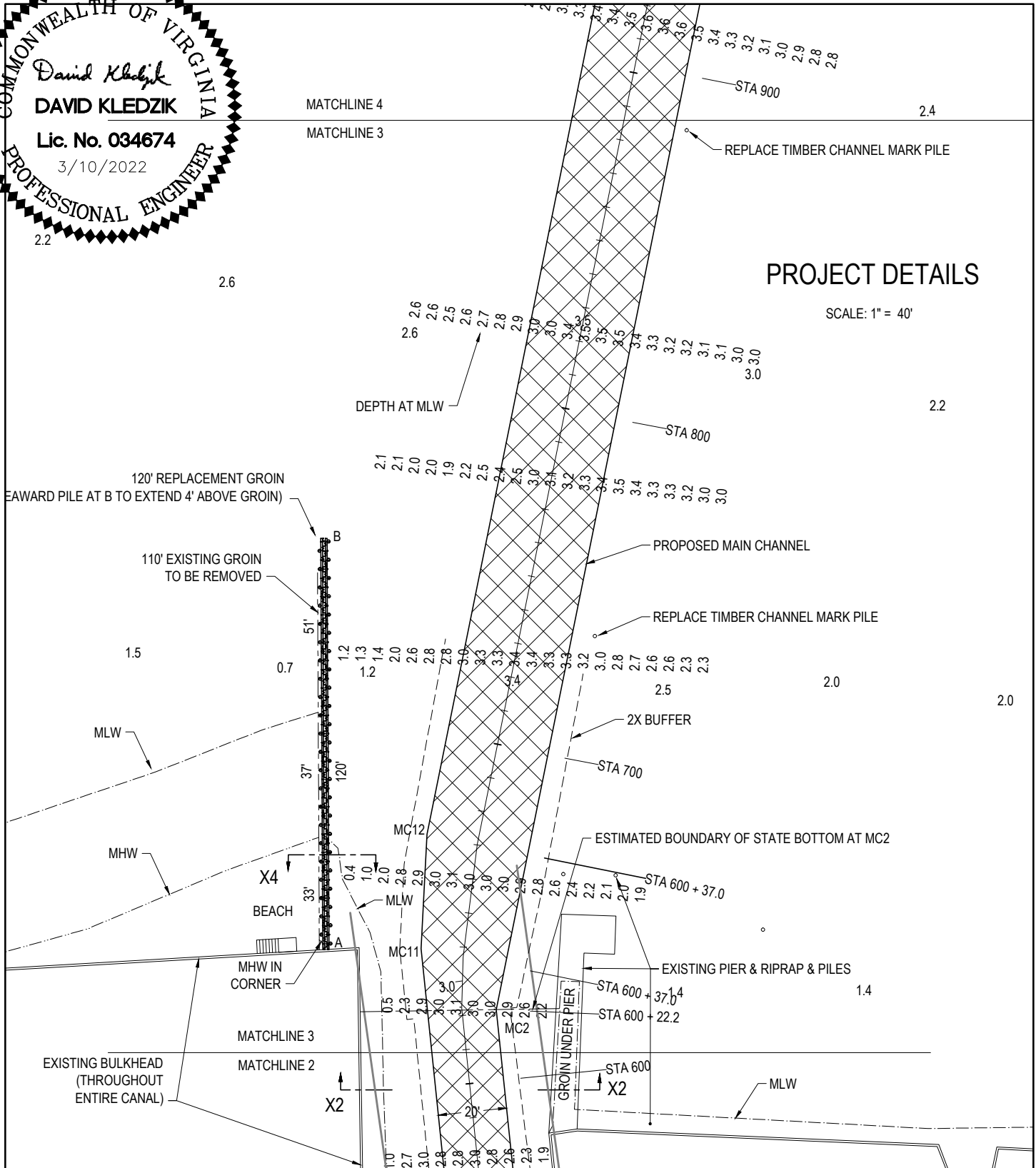
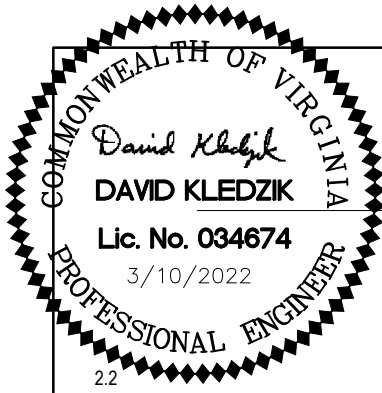
PROPOSED PROJECT FOR WATERCRAFT
 ACCESS & SAND CAPTURE
 DATUM: MLW = 0.00'
 SHEET 2 OF 10
 DATE: JANUARY 29, 2022
 REVISION #1 3/10/2022



APPLICANT:
BROAD BAY CANAL ASSOCIATION
1805 BROAD BAY CIRCLE
VIRGINIA BEACH, VA 23454

MARINE ENGINEERING LLC
PO BOX 5965
VIRGINIA BEACH, VA 23471
PH: (757) 477-4787

PROPOSED PROJECT FOR WATERCRAFT
ACCESS & SAND CAPTURE
DATUM: MLW = 0.00'
SHEET 3 OF 10
DATE: JANUARY 29, 2022
REVISION #1 3/10/2022



PROJECT DETAILS

SCALE: 1" = 40'

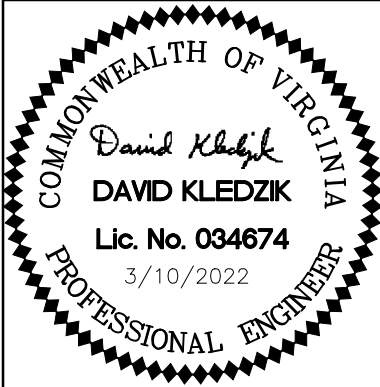
APPLICANT:
 BROAD BAY CANAL ASSOCIATION
 1805 BROAD BAY CIRCLE
 VIRGINIA BEACH, VA 23454

MARINE ENGINEERING LLC
 PO BOX 5965
 VIRGINIA BEACH, VA 23471
 PH: (757) 477-4787

PROPOSED PROJECT FOR WATERCRAFT
 ACCESS & SAND CAPTURE

DATUM: MLW = 0.00'

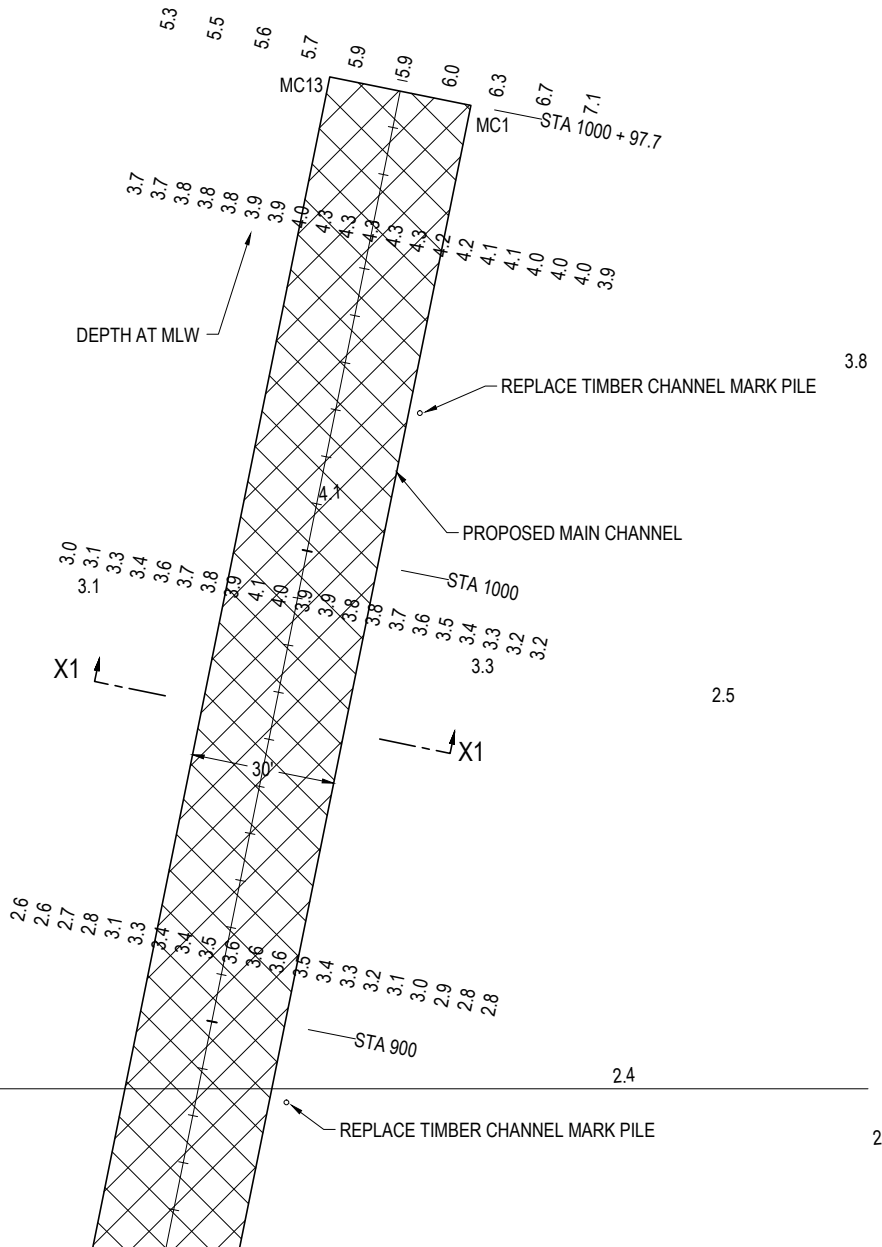
SHEET 4 OF 10
 DATE: JANUARY 29, 2022
 REVISION #1 3/10/2022



X 10.2

PROJECT DETAILS

SCALE: 1" = 40'



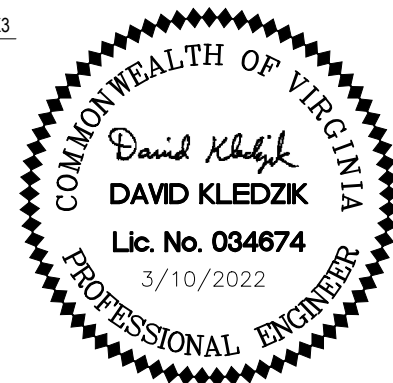
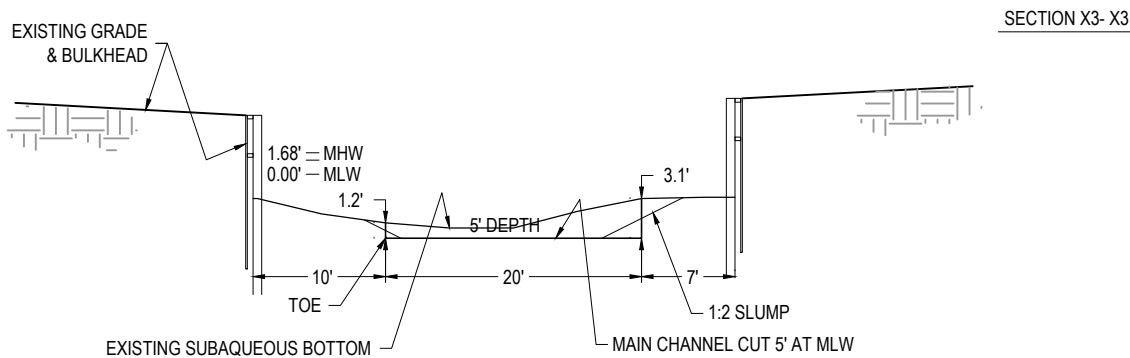
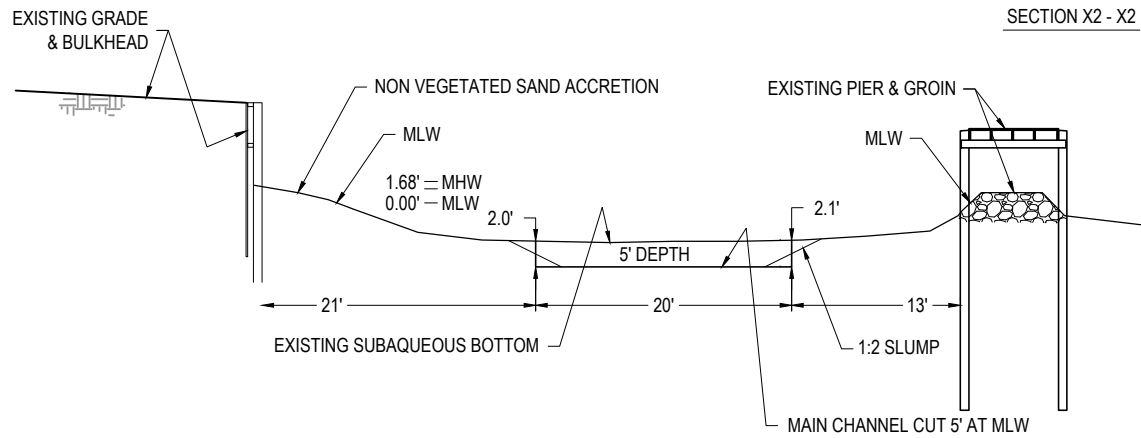
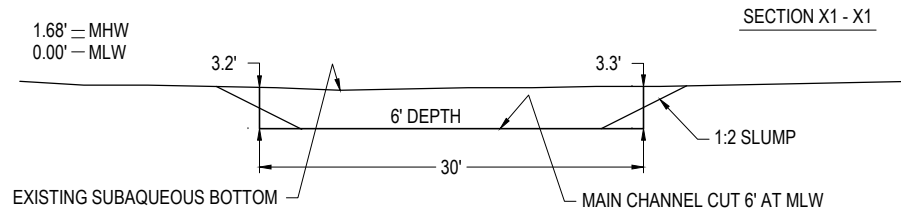
APPLICANT:
 BROAD BAY CANAL ASSOCIATION
 1805 BROAD BAY CIRCLE
 VIRGINIA BEACH, VA 23454

MARINE ENGINEERING LLC
 PO BOX 5965
 VIRGINIA BEACH, VA 23471
 PH: (757) 477-4787

PROPOSED PROJECT FOR WATERCRAFT
 ACCESS & SAND CAPTURE
 DATUM: MLW = 0.00'
 SHEET 5 OF 10
 DATE: JANUARY 29, 2022
 REVISION #1 3/10/2022

MAIN CHANNEL DREDGE DETAILS

SCALE: 1" = 15'



APPLICANT:
BROAD BAY CANAL ASSOCIATION
1805 BROAD BAY CIRCLE
VIRGINIA BEACH, VA 23454

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PO BOX 5965
VIRGINIA BEACH, VA 23471
PH: (757) 477-4787

PROPOSED PROJECT FOR WATERCRAFT
ACCESS & SAND CAPTURE

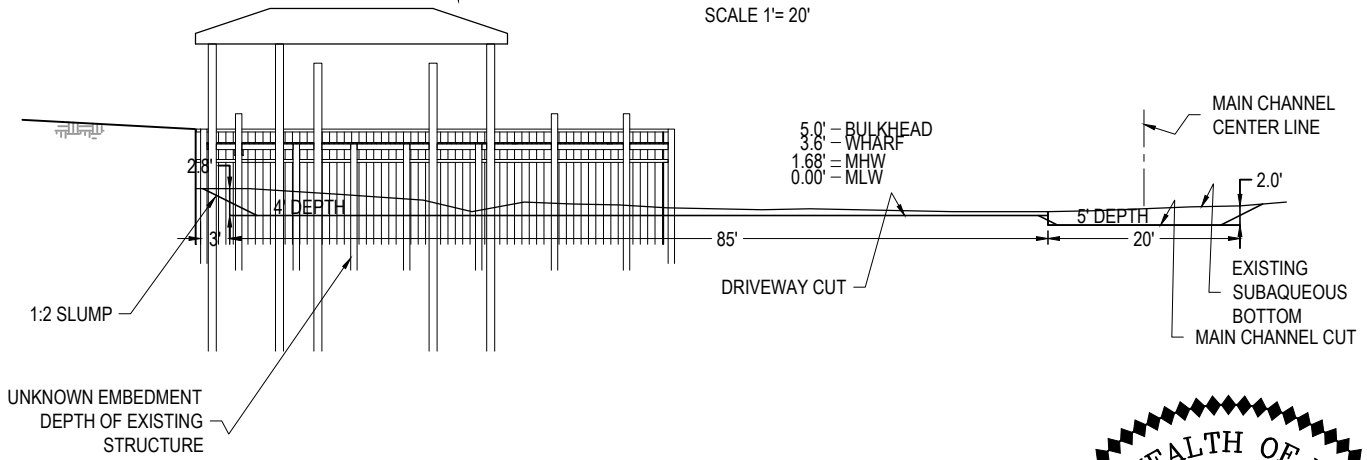
DATUM: MLW = 0.00'

SHEET 6 OF 10
DATE: JANUARY 29, 2022
REVISION #1 3/10/2022

EXISTING COVERED BOATLIFT
BULKHEAD & WHARF

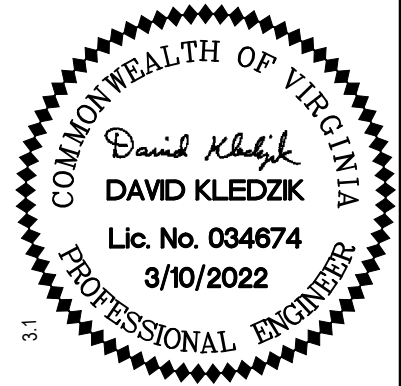
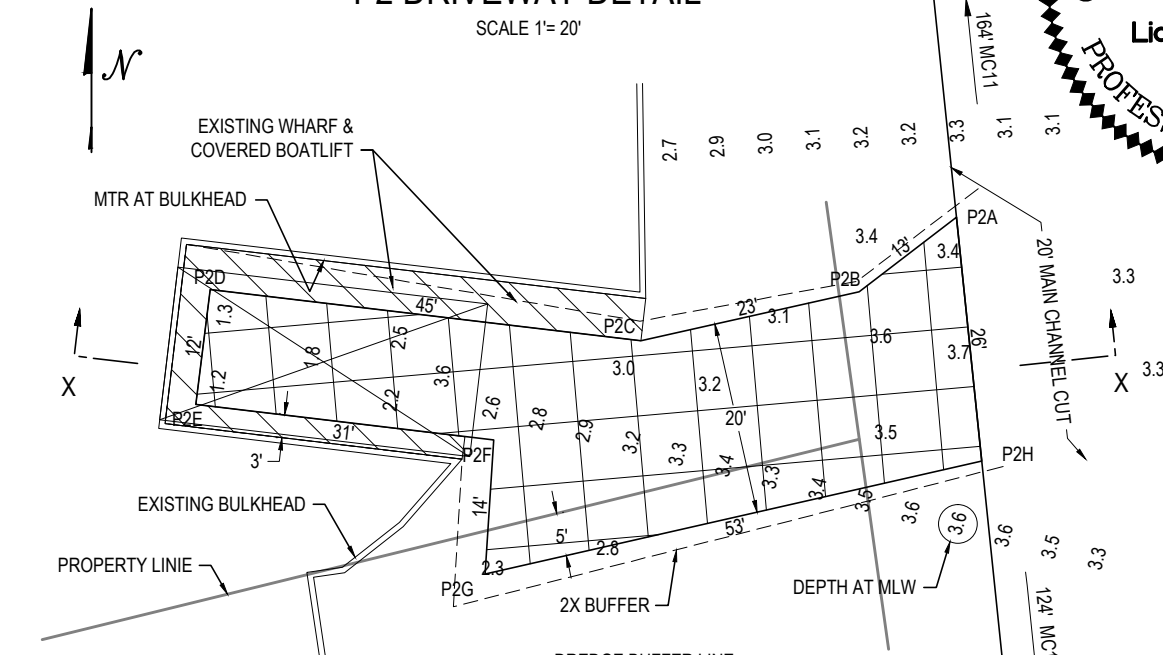
SECTION X - X

SCALE 1" = 20'



P2 DRIVEWAY DETAIL

SCALE 1" = 20'



P2 DRIVEWAY DATA

DEPTH	AREA [SF]	VOL. [CY]
PROPOSED (EX)		
4.0 (2.9)	1469	58

TASSOS J PAPHITES
1800 BROAD BAY CIRCLE

DREDGE BUFFER LINE
SHOWN AS OFFSET FROM
TOE OF DREDGE CUT.
(NO WETLAND OR BUFFER
IMPACTS)

PRIOR TO DREDGING NEAR ANY STRUCTURE OF VALUE
THE PROPERTY OWNER & DREDGE OPERATOR SHALL
ACCEPT THE POTENTIAL FOR FAILURE OF SAID
STRUCTURE CONSIDERING THE UNKNOWN ASSOCIATED
WITH THE DESIGN, INSTALLATION & CURRENT STATE OF
INTEGRITY AND THEREFORE, IF NEEDED, AGREE TO LIMIT
PERMITTED ENCROACHMENT BASED ON AVERSION TO
THE RISK OF FAILURE VERSUS THE BENEFIT OF DEEPER
WATER.

APPLICANT:
BROAD BAY CANAL ASSOCIATION
1805 BROAD BAY CIRCLE
VIRGINIA BEACH, VA 23454

MARINE ENGINEERING LLC

PO BOX 5965
VIRGINIA BEACH, VA 23471
PH: (757) 477-4787

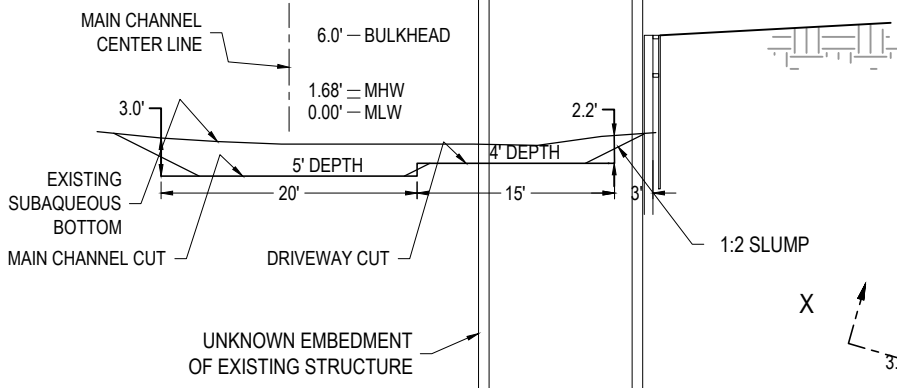
PROPOSED PROJECT FOR WATERCRAFT
ACCESS & SAND CAPTURE

DATUM: MLW = 0.00'

SHEET 7 OF 10
DATE: JANUARY 29, 2022
REVISION #1 3/10/2022

SECTION X - X

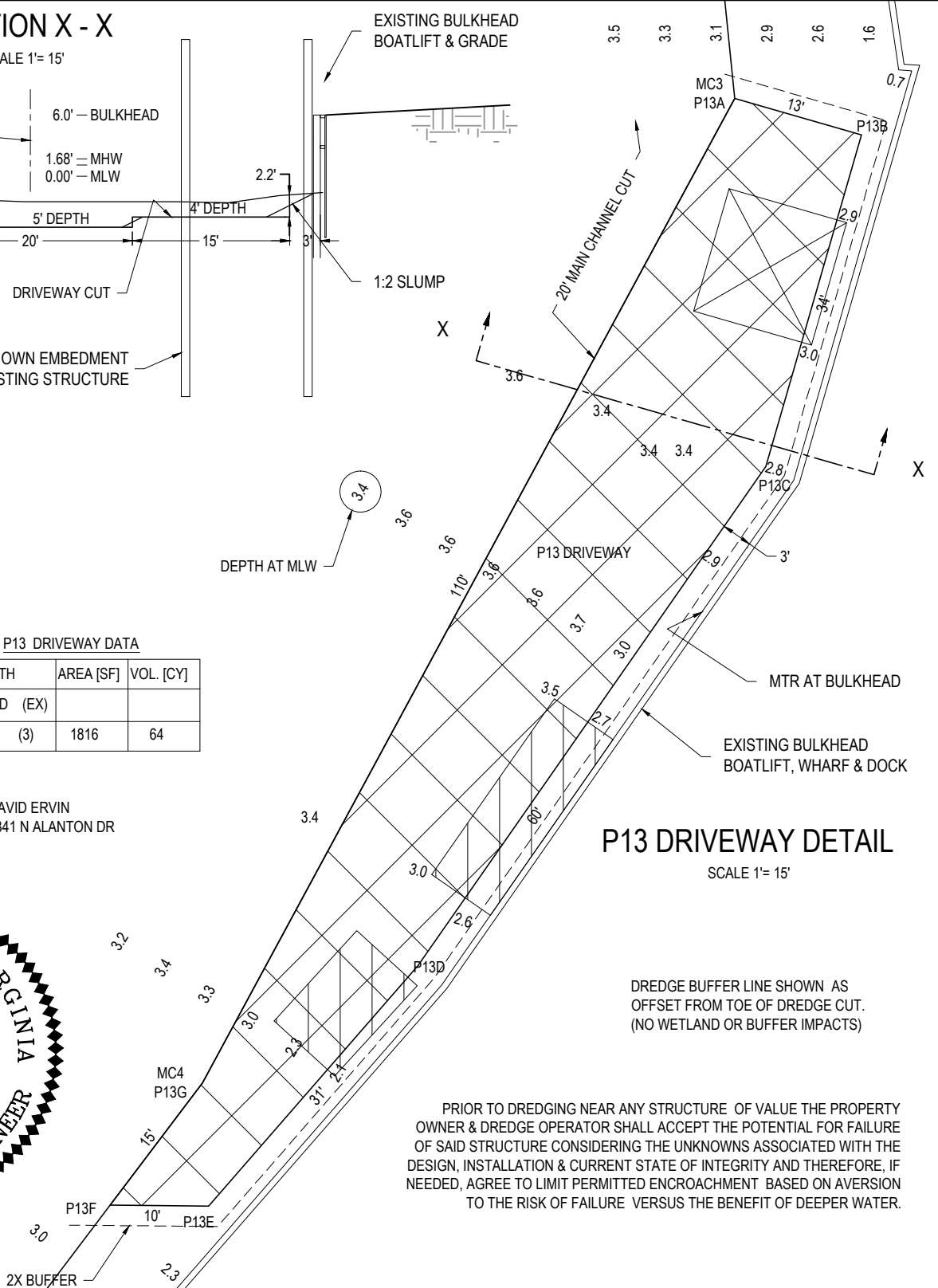
SCALE 1"= 15'



P13 DRIVEWAY DATA

DEPTH	AREA [SF]	VOL. [CY]
PROPOSED (EX)		
4.0 (3)	1816	64

DAVID ERVIN
1841 N ALANTON DR



P13 DRIVEWAY DETAIL

SCALE 1"= 15'

DREDGE BUFFER LINE SHOWN AS
OFFSET FROM TOE OF DREDGE CUT.
(NO WETLAND OR BUFFER IMPACTS)

PRIOR TO DREDGING NEAR ANY STRUCTURE OF VALUE THE PROPERTY OWNER & DREDGE OPERATOR SHALL ACCEPT THE POTENTIAL FOR FAILURE OF SAID STRUCTURE CONSIDERING THE UNKNOWNNS ASSOCIATED WITH THE DESIGN, INSTALLATION & CURRENT STATE OF INTEGRITY AND THEREFORE, IF NEEDED, AGREE TO LIMIT PERMITTED ENCROACHMENT BASED ON AVERSION TO THE RISK OF FAILURE VERSUS THE BENEFIT OF DEEPER WATER.

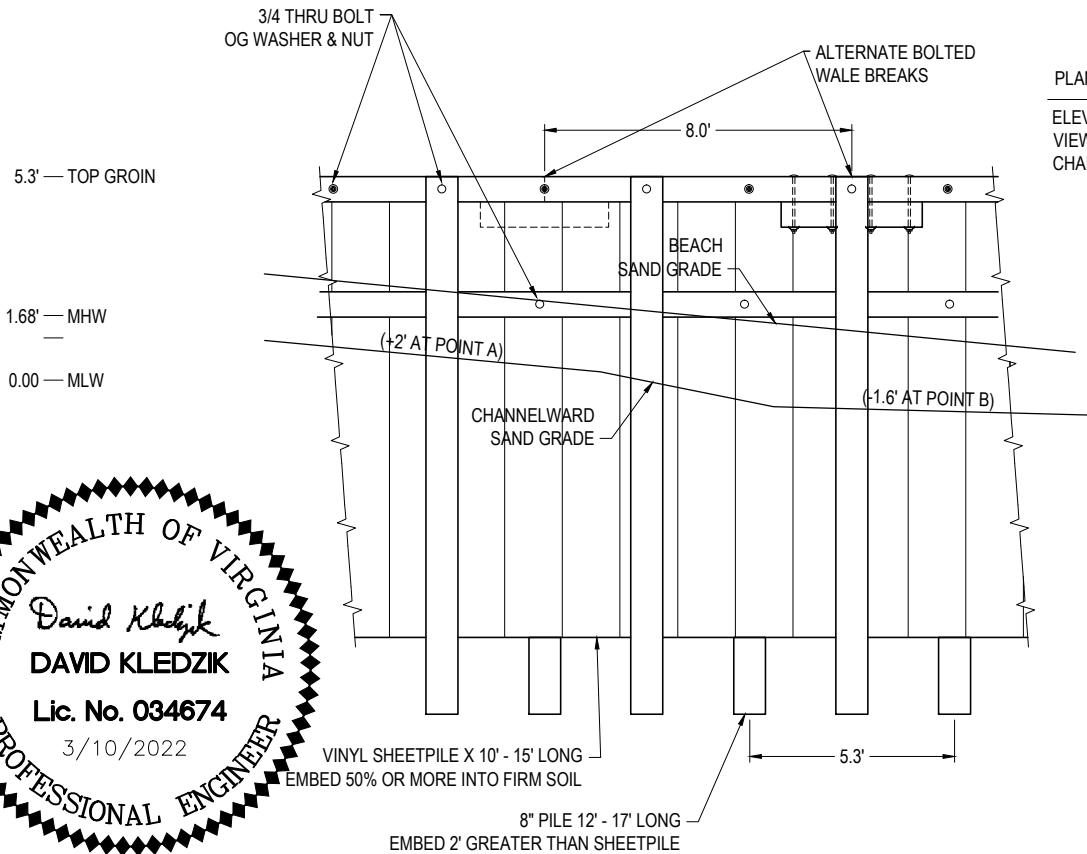
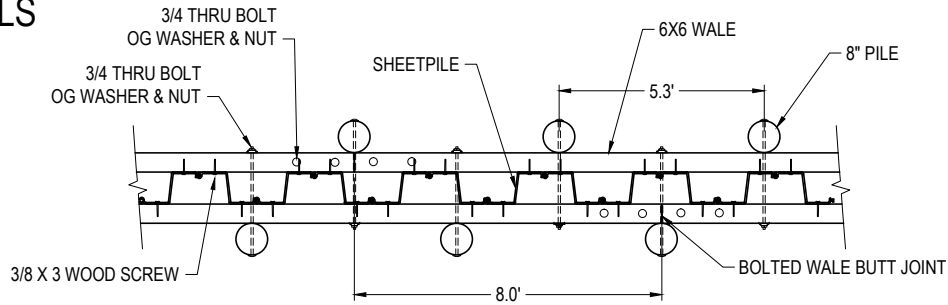
APPLICANT:
BROAD BAY CANAL ASSOCIATION
1805 BROAD BAY CIRCLE
VIRGINIA BEACH, VA 23454

MARINE ENGINEERING LLC
PO BOX 5965
VIRGINIA BEACH, VA 23471
PH: (757) 477-4787

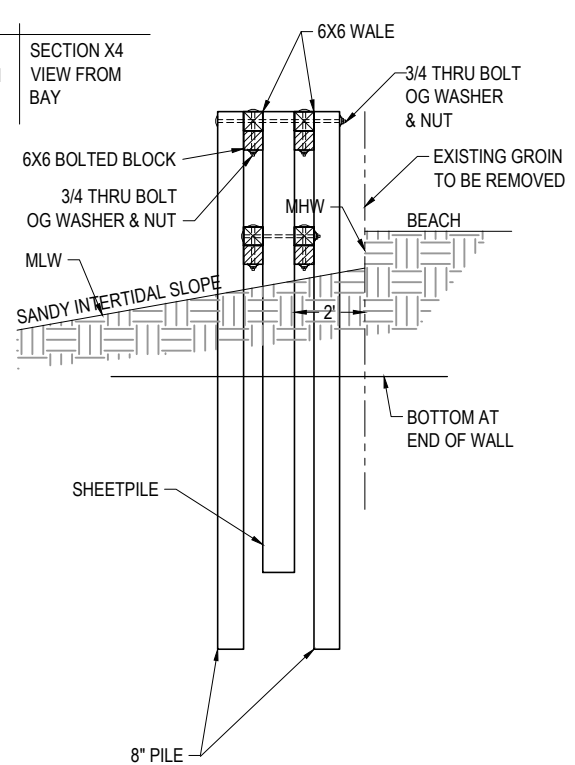
PROPOSED PROJECT FOR WATERCRAFT
ACCESS & SAND CAPTURE
DATUM: MLW = 0.00'
SHEET 8 OF 10
DATE: JANUARY 29, 2022
REVISION #1 3/10/2022

GROIN DETAILS

SCALE: 1" = 5'



PLAN VIEW
ELEVATION
VIEW FROM
CHANNEL



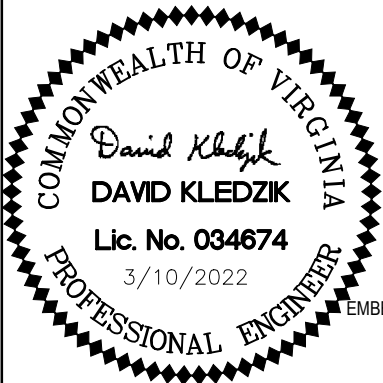
CONSTRUCTION MATERIALS:

MARINE CONSTRUCTION GRADE HARDWARE
HOT DIPPED GALVANIZED PER ASTM 153
(OR STAINLESS STEEL)

3/8" X 3 WOOD SCREW
3/4" THRU BOLT, NUT & OG WASHER

MARINE CONSTRUCTION GRADE SOUTHERN PINE
TIMBER TREATED IAW AWPA FOR UC5B USE
WALE GRADE #2 ROUGH
2.5 LB PCF CCA

SG 650 VINYL SHEETPILE
8" BUTT DIAMETER PILE
6" X 6" WALE



VINYL SHEETPILE X 10' - 15' LONG
EMBED 50% OR MORE INTO FIRM SOIL

8" PILE 12' - 17' LONG
EMBED 2' GREATER THAN SHEETPILE

APPLICANT:
BROAD BAY CANAL ASSOCIATION
1805 BROAD BAY CIRCLE
VIRGINIA BEACH, VA 23454

MARINE ENGINEERING LLC
PO BOX 5965
VIRGINIA BEACH, VA 23471
PH: (757) 477-4787

PROPOSED PROJECT FOR WATERCRAFT
ACCESS & SAND CAPTURE

DATUM: MLW = 0.00'

SHEET 9 OF 10
DATE: JANUARY 29, 2022
REVISION #1 3/10/2022

DREDGE DATA

DESCRIPTION	SPOILS		BUFFER AREA [SF]		WETLAND AREA [SF]			
	PROPOSED	(EX)	AREA [SF]	VOL. [CY]	VEG	NON	VEG	NON
MAIN CHANNEL ON STATE BOTTOM BEYOND MC2	6'	(3.4)	14101	1358	-	-	-	-
MAIN CHANNEL	5'	(3.2)	12410	814	-	-	-	-
DRIVEWAYS:			3285	122				
TOTAL			27751	2159	0	0	0	0
LOT 2	4'	(2.9)	1469	58	-	-	-	-
LOT 13	4'	(3.0)	1816	64	-	-	-	-

MAIN CHANNEL TURNING POINTS

NO.	EASTING	NORTHING	DIST NEXT PT
MC1	12205514.26	3494155.26	474'
MC2	12205420.30	3493690.97	300'
MC3	12205451.18	3493392.83	110'
MC4	12205399.01	3493296.33	77'
MC5	12205352.33	3493234.59	38'
MC6	12205333.38	3493201.57	20'
MC7	12205316.14	3493211.70	39'
MC8	12205335.61	3493245.54	74'
MC9	12205380.44	3493304.49	105'
MC10	12205430.67	3493396.94	313'
MC11	12205398.33	3493708.71	34'
MC12	12205400.06	3493742.16	428'
MC13	12205484.86	3494161.21	30'

GENERAL NOTES:

- UNLESS OTHERWISE SPECIFIED ALL LANDS WITHIN CANAL ARE SUBAQUEOUS
- CONSTRUCTION ACCESS WILL BE FROM WATERSIDE BARGE
- ALL 2X AND 4X BUFFERS ARE SUBAQUEOUS. THERE ARE NO IMPACTS TO BUFFER AREAS.
- BOTTOM SOUNDING DEPTHS IN FEET SHOWN ON SITE PLAN ARE REFERENCED FROM MLW & BASED ON THE 1983-2001 NTDE
- HORIZONTAL COORDINATES ARE IN US SURVEY FEET REFERENCED TO NAD83 & VIRGINIA SP83, SOUTH ZONE
- SOUNDINGS TAKEN BY RTK AND SOUNDER WITH ADDITIONAL POINTS USING STAFF ON OCTOBER 1, 2021 AND NOVEMBER 30, 2021.
- BOX CUT DREDGE PROCEDURE WITH SLUMPED EDGE TYPICAL
- INACCESSIBLE FEATURES SCALED FROM GIS IMAGERY
- PRIOR TO DREDGING NEAR ANY VALUABLE STRUCTURE THE PROPERTY OWNER & DREDGE OPERATOR SHALL RECOGNIZE THE POTENTIAL FAILURE OF SAID STRUCTURE CONSIDERING THE UNKNOWNNS ASSOCIATED WITH THEIR DESIGN, INSTALLATION & CURRENT STATE OF INTEGRITY AND, IF NEEDED, AGREE TO LIMIT PERMITTED ENCROACHMENT BASED ON RISK TOLERANCE VERSUS THE BENEFIT OF DEEPER WATER.

DRIVEWAY TURNING POINTS

NO.	EASTING	NORTHING	DIST NEXT PT
P2A	12205415.29	3493545.22	13'
P2B	12205405.17	3493537.47	23'
P2C	12205382.44	3493532.38	45'
P2D	12205337.57	3493537.69	12'
P2E	12205336.09	3493525.72	31'
P2F	12205367.11	3493522.03	14'
P2G	12205366.20	3493508.05	53'
P2H	12205417.93	3493519.82	26'
P13A	12205451.18	3493392.83	13'
P13B	12205462.63	3493389.53	34'
P13C	12205453.30	3493357.18	60'
P13D	12205419.35	3493308.45	31'
P13E	12205398.28	3493284.28	10'
P13F	12205389.96	3493284.36	15'
P13G	12205399.01	3493296.33	110'

GROIN REPLACEMENT

NO.	EASTING	NORTHING	DIST NEXT PT
A	12205371.66	3493708.53	120'
B	12205371.09	3493828.61	-

LEGEND

- × EXISTING BOATLIFT
- EXISTING STRUCTURE
- EXISTING SEAWALL (AT MTR UNLESS OTHERWISE SPECIFIED)
- MHW
- MLW
- BUFFER
- PROPERTY
- MC# MAIN CHANNEL TURNING POINT
- P# DRIVEWAY TURNING POINT
- ∨ WETLAND VEGETATION (NONE)
- ☒ PROPOSED DREDGE

WETLAND IMPACTS:

62 SF IMPACTS TO NON VEGETATED INTERTIDAL SANDY SUBSTRATE DUE TO REPLACEMENT OF GROIN.
 COMPENSATION OFFERED \$12.50 X 62 = \$ 775



APPLICANT:
 BROAD BAY CANAL ASSOCIATION
 1805 BROAD BAY CIRCLE
 VIRGINIA BEACH, VA 23454

MARINE ENGINEERING LLC
 PO BOX 5965
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 PH: (757) 477-4787

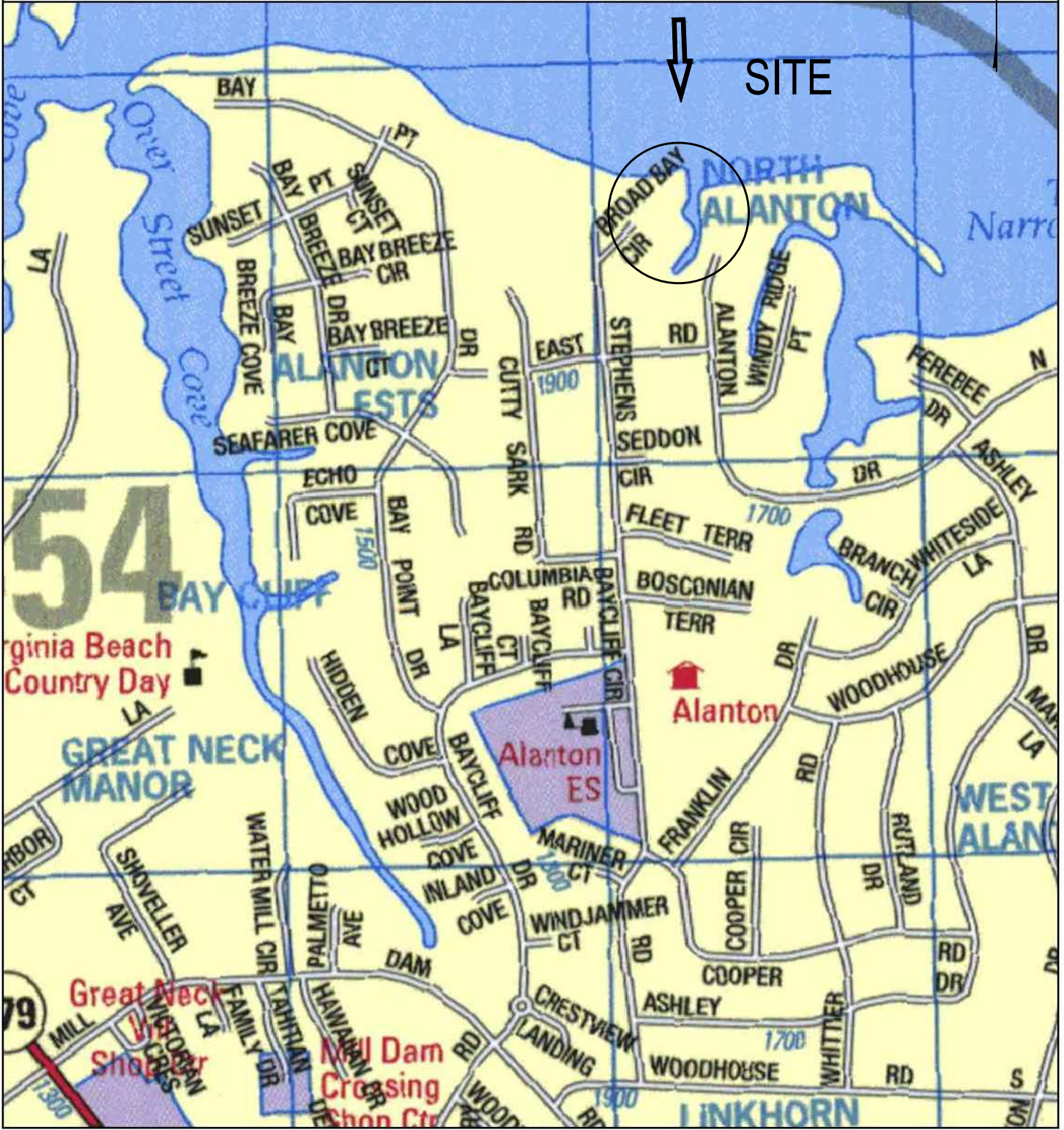
PROPOSED PROJECT FOR WATERCRAFT ACCESS & SAND CAPTURE

DATUM: MLW = 0.00'

SHEET 10 OF 10
 DATE: JANUARY 29, 2022
 REVISION #1 3/10/2022

AREA MAP OF 1805 BROAD BAY CIR VIRGINIA BEACH VA 23454

SCALE 1" : 800'



**ENGINEER/SURVEYOR'S INSPECTION STATEMENT
FOR
WATERFRONT CONSTRUCTION/COASTAL PRIMARY SAND DUNE PROJECTS**

REVISED 10-09-03

PROJECT LOCATION: 1805 BROAD BAY CIRCLE

APPLICANT'S NAME: BROAD BAY CANAL ASSOCIATION

APPLICANT'S ADDRESS: 1805 BROAD BAY CIRCLE

Virginia Beach, VA 23454


ENGINEER OF RECORD: David Kledzik

PROFESSIONAL ENGINEER/ SURVEYOR
CERTIFYING PROJECT

CONSTRUCTION: David Kledzik

AT THE COMPLETION OF A WATERFRONT CONSTRUCTION/COASTAL PRIMARY SAND DUNE PROJECT IT IS REQUIRED THAT A CERTIFICATION BY THE APPROVING ENGINEER/SURVEYOR BE SUBMITTED, STATING THAT THEY HAVE INSPECTED THE REFERENCED PROJECT SITE AND TO THE BEST OF THEIR KNOWLEDGE, THE WATERFRONT/COASTAL PRIMARY SAND DUNE PROJECT HAS BEEN CONSTRUCTED IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS. SUCH CERTIFICATION SHALL BE SEALED BY THE ENGINEER OR SURVEYOR CERTIFYING THE CONSTRUCTION.

THIS FORM MUST BE COMPLETED AND RETURNED TO THE DEPARTMENT OF PLANNING, WATERFRONT OPERATIONS OFFICE WITH ALL APPLICATIONS FOR WATERFRONT CONSTRUCTION/COASTAL PRIMARY SAND DUNE PROJECTS AT THE TIME OF SUBMITTAL.




2/28/2022

SIGNATURE OF ENGINEER/SURVEYOR CERTIFYING CONSTRUCTION

DATE

David Kledzik

TYPE OR PRINT NAME OF ENGINEER/SURVEYOR CERTIFYING CONSTRUCTION


SIGNATURE OF APPLICANT

2-16-22
DATE

SIGNATURE OF COASTAL ZONE ADMINISTRATOR

DATE

ANY ALTERATION OF THIS FORM OR ITS ENDORSEMENTS WITHOUT THE EXPRESS CONSENT FROM THE ORIGINATOR SHALL INVALIDATE THIS INSTRUMENT.

APPLICATION NO. _____

**ENGINEER/SURVEYOR'S INSPECTION STATEMENT
FOR
WATERFRONT CONSTRUCTION/COASTAL PRIMARY SAND DUNE PROJECTS**

REVISED 10-09-03

PROJECT LOCATION: 1841 North Alanton Dr

APPLICANT'S NAME: David Ervin

APPLICANT'S ADDRESS: 1841 North Alanton Dr

Virginia Beach, VA 23454

ENGINEER OF RECORD: David Kledzik

PROFESSIONAL ENGINEER/ SURVEYOR
CERTIFYING PROJECT
CONSTRUCTION: David Kledzik

AT THE COMPLETION OF A WATERFRONT CONSTRUCTION/COASTAL PRIMARY SAND DUNE PROJECT IT IS REQUIRED THAT A CERTIFICATION BY THE APPROVING ENGINEER/SURVEYOR BE SUBMITTED, STATING THAT THEY HAVE INSPECTED THE REFERENCED PROJECT SITE AND TO THE BEST OF THEIR KNOWLEDGE, THE WATERFRONT/COASTAL PRIMARY SAND DUNE PROJECT HAS BEEN CONSTRUCTED IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS. SUCH CERTIFICATION SHALL BE SEALED BY THE ENGINEER OR SURVEYOR CERTIFYING THE CONSTRUCTION.

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2/28/2022

SIGNATURE OF ENGINEER/SURVEYOR CERTIFYING CONSTRUCTION

DATE

David Kledzik

TYPE OR PRINT NAME OF ENGINEER/SURVEYOR CERTIFYING CONSTRUCTION


SIGNATURE OF APPLICANT

2/16/22
DATE

SIGNATURE OF COASTAL ZONE ADMINISTRATOR

DATE

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APPLICATION NO. _____

**ENGINEER/SURVEYOR'S INSPECTION STATEMENT
FOR
WATERFRONT CONSTRUCTION/COASTAL PRIMARY SAND DUNE PROJECTS**

REVISED 10-09-03

PROJECT LOCATION: 1803 BROAD BAY CIRCLE

APPLICANT'S NAME: MICHAEL M EVANS

APPLICANT'S ADDRESS: 1803 BROAD BAY CIRCLE

Virginia Beach, VA 23454

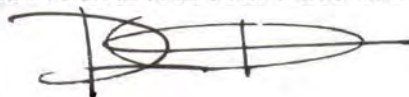
ENGINEER OF RECORD: David Kledzik

PROFESSIONAL ENGINEER/ SURVEYOR
CERTIFYING PROJECT
CONSTRUCTION:

David Kledzik

AT THE COMPLETION OF A WATERFRONT CONSTRUCTION/COASTAL PRIMARY SAND DUNE PROJECT IT IS REQUIRED THAT A CERTIFICATION BY THE APPROVING ENGINEER/SURVEYOR BE SUBMITTED, STATING THAT THEY HAVE INSPECTED THE REFERENCED PROJECT SITE AND TO THE BEST OF THEIR KNOWLEDGE, THE WATERFRONT/COASTAL PRIMARY SAND DUNE PROJECT HAS BEEN CONSTRUCTED IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS. SUCH CERTIFICATION SHALL BE SEALED BY THE ENGINEER OR SURVEYOR CERTIFYING THE CONSTRUCTION.

THIS FORM MUST BE COMPLETED AND RETURNED TO THE DEPARTMENT OF PLANNING, WATERFRONT OPERATIONS OFFICE WITH ALL APPLICATIONS FOR WATERFRONT CONSTRUCTION/COASTAL PRIMARY SAND DUNE PROJECTS AT THE TIME OF SUBMITTAL.



2/28/2022

SIGNATURE OF ENGINEER/SURVEYOR CERTIFYING CONSTRUCTION

DATE

David Kledzik

TYPE OR PRINT NAME OF ENGINEER/SURVEYOR CERTIFYING CONSTRUCTION

Michael E

2/28/22

SIGNATURE OF APPLICANT

DATE

SIGNATURE OF COASTAL ZONE ADMINISTRATOR

DATE

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APPLICATION NO. _____

**ENGINEER/SURVEYOR'S INSPECTION STATEMENT
FOR
WATERFRONT CONSTRUCTION/COASTAL PRIMARY SAND DUNE PROJECTS**

REVISED 10-09-03

PROJECT LOCATION: 1800 BROAD BAY CIRCLE

APPLICANT'S NAME: TASSOS J PAPHITES

APPLICANT'S ADDRESS: 1800 BROAD BAY CIRCLE

Virginia Beach, VA 23454

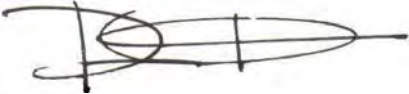
ENGINEER OF RECORD: David Kledzik

PROFESSIONAL ENGINEER/ SURVEYOR
CERTIFYING PROJECT
CONSTRUCTION:

David Kledzik

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SIGNATURE OF ENGINEER/SURVEYOR CERTIFYING CONSTRUCTION

2/28/2022
DATE

David Kledzik

TYPE OR PRINT NAME OF ENGINEER/SURVEYOR CERTIFYING CONSTRUCTION



SIGNATURE OF APPLICANT

2/16/22
DATE

SIGNATURE OF COASTAL ZONE ADMINISTRATOR

DATE

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APPLICATION NO. _____

6. 2022-WTRA-00046

David and Joan Michaud [Applicants & Owners]

To construct a rip rap revetment, sill, and plant vegetation involving wetlands

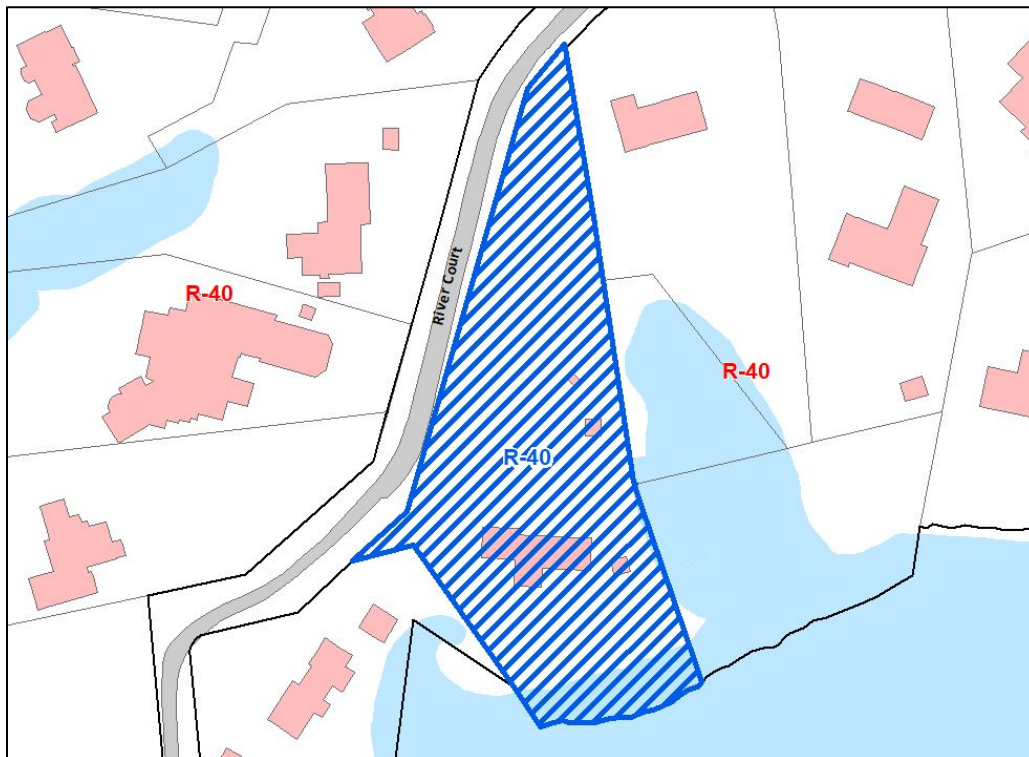
1725 River Ct

(GPIN 1499-40-7609)

Waterway – Eastern Branch Lynnhaven River

Subdivision – Forest Hills

City Council District: District 5, formerly Lynnhaven



Disclosure Statement



The disclosures contained in this form are necessary to inform public officials who may vote on the application as to whether they have a conflict of interest under Virginia law. The completion and submission of this form is required for all applications that pertain to City real estate matters or to the development and/or use of property in the City of Virginia Beach requiring action by the City Council or a City board, commission or other body.

Applicant Disclosure

Applicant Name DAVID AND JOAN MICHAUD

Does the applicant have a representative? Yes No

- If **yes**, list the name of the representative.

DAVID KLEDZIK

Is the applicant a corporation, partnership, firm, business, trust or an unincorporated business? Yes No

- If **yes**, list the names of all officers, directors, members, trustees, etc. below. (Attach a list if necessary)

- If **yes**, list the businesses that have a parent-subsiary¹ or affiliated business entity² relationship with the applicant. (Attach a list if necessary)

¹ "Parent-subsiary relationship" means "a relationship that exists when one corporation directly or indirectly owns shares possessing more than 50 percent of the voting power of another corporation." See State and Local Government Conflict of Interests Act, VA. Code § 2.2-3101.

² "Affiliated business entity relationship" means "a relationship, other than parent-subsiary relationship, that exists when (i) one business entity has a controlling ownership interest in the other business entity, (ii) a controlling owner in one entity is also a controlling owner in the other entity, or (iii) there is shared management or control between the business entities. Factors that should be considered in determining the existence of an affiliated business entity relationship include that the same person or substantially the same person own or manage the two entities; there are common or commingled funds or assets; the business entities share the use of the same offices or employees or otherwise share activities, resources or personnel on a regular basis; or there is otherwise a close working relationship between the entities." See State and Local Government Conflict of Interests Act, Va. Code § 2.2-3101.

Disclosure Statement



Known Interest by Public Official or Employee

Does an **official or employee of the City of Virginia Beach** have an interest in the subject land or any proposed development contingent on the subject public action? **Yes** **No**

- If **yes**, what is the name of the official or employee and what is the nature of the interest?
-

Applicant Services Disclosure

1. Does the applicant have **any existing financing (mortgage, deeds of trust, cross-collateralization, etc) or are they considering any financing** in connection with the subject of the application or any business operating or to be operated on the property?

Yes **No**

- If **yes**, identify the financial institutions providing the service.
-

2. Does the applicant have a **real estate broker/agent/realtor** for current and anticipated future sales of the subject property?

Yes **No**

- If **yes**, identify the company and individual providing the service.
-

3. Does the applicant have services for **accounting and/or preparation of tax returns** provided in connection with the subject of the application or any business operating or to be operated on the property? **Yes** **No**

- If **yes**, identify the firm and individual providing the service.
-

4. Does the applicant have services from an **architect/landscape architect/land planner** provided in connection with the subject of the application or any business operating or to be operated on the property? **Yes** **No**

- If **yes**, identify the firm and individual providing the service.
-

5. Is there any other **pending or proposed purchaser** of the subject property? **Yes** **No**

- If **yes**, identify the purchaser and purchaser's service providers.
-

Disclosure Statement



6. Does the applicant have a **construction contractor** in connection with the subject of the application or any business operating or to be operated on the property? Yes No

- If **yes**, identify the company and individual providing the service.

7. Does the applicant have an **engineer/surveyor/agent** in connection with the subject of the application or any business operating or to be operated on the property? Yes No

- If **yes**, identify the firm and individual providing the service.


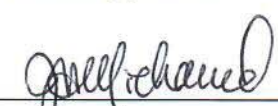
MARINE ENGINEERING LLC DAVID KLEDZIK

8. Is the applicant receiving **legal services** in connection with the subject of the application or any business operating or to be operated on the property? Yes No

- If **yes**, identify the firm and individual providing the service.

Applicant Signature

I certify that all of the information contained in this Disclosure Statement Form is complete, true, and accurate. I understand that, upon receipt of notification that the application has been scheduled for public hearing, **I am responsible for updating the information provided herein two weeks prior to the meeting of Planning Commission, City Council, VBDA, CBPA, Wetlands Board or any public body or committee in connection with this application.**

 Applicant Signature David P. Michaud Print Name and Title 2/28/2022 Date	 Joan H. Michaud Print Name and Title 2/28/2022 Date
---	---

Is the applicant also the owner of the subject property? Yes No

- If **yes**, you do not need to fill out the owner disclosure statement.

FOR CITY USE ONLY/ All disclosures must be updated two (2) weeks prior to any Planning Commission and City Council meeting that pertains to the applications

<input type="checkbox"/>	No changes as of	Date		Signature	
				Print Name	

- ❖ DEQ: Permit application fees required for Virginia Water Protection permits – while detailed in 9VAC25-20 – are conveyed to the applicant by the applicable DEQ office (<http://www.deq.virginia.gov/Locations.aspx>). Complete the Permit Application Fee Form and submit it per the instructions to the address listed on the form. Instructions for submitting any other fees will be provided to the applicant by DEQ staff.
- ❖ VMRC: An application fee of \$300 may be required for projects impacting tidal wetlands, beaches and/or dunes when VMRC acts as the LWB. VMRC will notify the applicant in writing if the fee is required. Permit fees involving subaqueous lands are \$25.00 for projects costing \$10,000 or less and \$100 for projects costing more than \$10,000. Royalties may also be required for some projects. The proper permit fee and any required royalty is paid at the time of permit issuance by VMRC. VMRC staff will send the permittee a letter notifying him/her of the proper permit fees and submittal requirements.
- ❖ LWB: Permit fees vary by locality. Contact the LWB for your project area or their website for fee information and submittal requirements. Contact information for LWBs may be found at http://ccrm.vims.edu/permits_web/guidance/local_wetlands_boards.html.

FOR AGENCY USE ONLY	
	Notes:
	JPA # 22-0465

APPLICANTS

Part 1 – General Information

PLEASE PRINT OR TYPE ALL ANSWERS: If a question does not apply to your project, please print N/A (not applicable) in the space provided. If additional space is needed, attach 8-1/2 x 11 inch sheets of paper.

<u>Check all that apply</u>				
Pre-Construction Notification (PCN) <input type="checkbox"/>	NWP # _____ (For Nationwide Permits ONLY - No DEQ-VWP permit writer will be assigned)		Regional Permit 17 (RP-17) <input type="checkbox"/>	
County or City in which the project is located: _____				
Waterway at project site: _____				
PREVIOUS ACTIONS RELATED TO THE PROPOSED WORK (Include all federal, state, and local pre application coordination, site visits, previous permits, or applications whether issued, withdrawn, or denied)				
Historical information for past permit submittals can be found online with VMRC - https://webapps.mrc.virginia.gov/public/habitat/ - or VIMS - http://ccrm.vims.edu/perms/newpermits.html				
Agency	Action / Activity	Permit/Project number, including any non-reporting Nationwide permits previously used (e.g., NWP 13)	Date of Action	If denied, give reason for denial

VB approved

Part 1 - General Information (continued)

1. Applicant's legal name* and complete mailing address: Contact Information:

Home (____)_____

Work (____)_____

Fax (____)_____

Cell (____)_____

e-mail _____

State Corporation Commission Name and ID Number (if applicable) _____

2. Property owner(s) legal name* and complete address, if different from applicant: Contact Information:

Home (____)_____

Work (____)_____

Fax (____)_____

Cell (____)_____

e-mail _____

State Corporation Commission Name and ID Number (if applicable) _____

3. Authorized agent name* and complete mailing address (if applicable):

Contact Information:

Home (____)_____

Work (____)_____

Fax (____)_____

Cell (____)_____

e-mail _____

State Corporation Commission Name and ID Number (if applicable) _____

*** If multiple applicants, property owners, and/or agents, each must be listed and each must sign the applicant signature page.**

4. Provide a detailed description of the project in the space below, including the type of project, its dimensions, materials, and method of construction. Be sure to include how the construction site will be accessed and whether tree clearing and/or grading will be required, including the total acreage. If the project requires pilings, please be sure to include the total number, type (e.g. wood, steel, etc), diameter, and method of installation (e.g. hammer, vibratory, jetted, etc). If additional space is needed, provide a separate sheet of paper with the project description.

Part 1 - General Information (continued)

5. Have you obtained a contractor for the project? ___ Yes* ___ No. *If your answer is "Yes" complete the remainder of this question and submit the Applicant's and Contractor's Acknowledgment Form (enclosed)

Contractor's name* and complete mailing address:

Contact Information:

Home (____) _____

Work (____) _____

Fax (____) _____

Cell (____) _____

email _____

State Corporation Commission Name and ID Number (if applicable) _____

*** If multiple contractors, each must be listed and each must sign the applicant signature page.**

6. List the name, address and telephone number of the newspaper having general circulation in the area of the project. Failure to complete this question may delay local and State processing.

Name and complete mailing address:

Telephone number

(____) _____

** Please Instruct Newspaper to Contact
Permit Applicant for Proof and Payment.

7. Give the following project location information:

Street Address (911 address if available) _____

Lot/Block/Parcel# _____

Subdivision _____

City / County _____ ZIP Code _____

Latitude and Longitude at Center Point of Project Site (Decimal Degrees):

_____ / - _____ (Example: 36.41600/-76.30733)

If the project is located in a rural area, please provide driving directions giving distances from the best and nearest visible landmarks or major intersections. *Note: if the project is in an undeveloped subdivision or property, clearly stake and identify property lines and location of the proposed project. A supplemental map showing how the property is to be subdivided should also be provided.*

8. What are the *primary and secondary purposes of and the need for* the project? For example, the primary purpose may be "to protect property from erosion due to boat wakes" and the secondary purpose may be "to provide safer access to a pier."

Part 1 - General Information (continued)

9. Proposed use (check one):
___ Single user (private, non-commercial, residential)
___ Multi-user (community, commercial, industrial, government)
10. Describe alternatives considered and the measures that will be taken to avoid and minimize impacts, to the maximum extent practicable, to wetlands, surface waters, submerged lands, and buffer areas associated with any disturbance (clearing, grading, excavating) during and after project construction. *Please be advised that unavoidable losses of tidal wetlands and/or aquatic resources may require compensatory mitigation.*
11. Is this application being submitted for after-the-fact authorization for work which has already begun or been completed? ___Yes ___No. If yes, be sure to clearly depict the portions of the project which are already complete in the project drawings.
12. Approximate cost of the entire project (materials, labor, etc.): \$_____
- Approximate cost of that portion of the project that is channelward of mean low water:
\$_____
13. Completion date of the proposed work: _____ - _____
14. Adjacent Property Owner Information: List the name and complete **mailing address**, including zip code, of each adjacent property owner to the project. (NOTE: If you own the adjacent lot, provide the requested information for the first adjacent parcel beyond your property line.) Failure to provide this information may result in a delay in the processing of your application by VMRC.

Part 2 - Signatures

1. Applicants and property owners (if different from applicant).

NOTE: REQUIRED FOR ALL PROJECTS

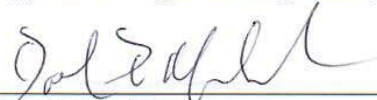
PRIVACY ACT STATEMENT: The Department of the Army permit program is authorized by Section 10 of the Rivers and Harbors Act of 1899, Section 404 of the Clean Water Act, and Section 103 of the Marine Protection Research and Sanctuaries Act of 1972. These laws require that individuals obtain permits that authorize structures and work in or affecting navigable waters of the United States, the discharge of dredged or fill material into waters of the United States, and the transportation of dredged material for the purpose of dumping it into ocean waters prior to undertaking the activity. Information provided in the Joint Permit Application will be used in the permit review process and is a matter of public record once the application is filed. Disclosure of the requested information is voluntary, but it may not be possible to evaluate the permit application or to issue a permit if the information requested is not provided.

CERTIFICATION: I am hereby applying for all permits typically issued by the DEQ, VMRC, USACE, and/or Local Wetlands Boards for the activities I have described herein. I agree to allow the duly authorized representatives of any regulatory or advisory agency to enter upon the premises of the project site at reasonable times to inspect and photograph site conditions, both in reviewing a proposal to issue a permit and after permit issuance to determine compliance with the permit.

In addition, I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

DAVID MICHAUD

Applicant's Legal Name (printed/typed)


Applicant's Signature

2/28/2022

Date

N/A


Property Owner's Legal Name (printed/typed)
(If different from Applicant)

Property Owner's Signature

Date

JOAN MICHAUD

(Use if more than one applicant)


(Use if more than one applicant)

(Use if more than one owner)

(Use if more than one owner)

Part 2 – Signatures (continued)

2. Applicants having agents (if applicable)

CERTIFICATION OF AUTHORIZATION

I (we), DAVID MICHAUD, hereby certify that I (we) have authorized MARINE ENGINEERING LLC
(Applicant’s legal name(s)) (Agent’s name(s))

to act on my behalf and take all actions necessary to the processing, issuance and acceptance of this permit and any and all standard and special conditions attached.

We hereby certify that the information submitted in this application is true and accurate to the best of our knowledge.

[Signature]
(Agent’s Signature)

2/28/2022

(Date)
[Signature]
(Applicant’s Signature)

2/28/2022
(Date)

AGENT PROVIDES LIMITED SUPPORT EXCLUSIVELY TO THE PERMIT APPLICANT (PRINCIPAL) AND DOES NOT CONSENT OR ENTER INTO AGREEMENTS WITH OTHERS TO ACCEPT THE PRINCIPAL'S LIABILITY FOR ANY COST OR PERFORMANCE REQUIREMENT RELATED TO THE ACTIVITIES OF THIS PERMIT APPLICATION.

N/A 3. Applicant’s having contractors (if applicable)

CONTRACTOR ACKNOWLEDGEMENT

I (we), _____, have contracted _____
(Applicant’s legal name(s)) (Contractor’s name(s))
to perform the work described in this Joint Permit Application, signed and dated _____.

We will read and abide by all conditions set forth in all Federal, State and Local permits as required for this project. We understand that failure to follow the conditions of the permits may constitute a violation of applicable Federal, state and local statutes and that we will be liable for any civil and/or criminal penalties imposed by these statutes. In addition, we agree to make available a copy of any permit to any regulatory representative visiting the project to ensure permit compliance. If we fail to provide the applicable permit upon request, we understand that the representative will have the option of stopping our operation until it has been determined that we have a properly signed and executed permit and are in full compliance with all terms and conditions.

Contractor’s name or name of firm

Contractor’s or firms address

Contractor’s signature and title

Contractor’s License Number

Applicant’s signature

(use if more than one applicant)

Date

Part 3 – Appendices (continued)

Appendix B: Projects for Shoreline Stabilization in tidal wetlands, tidal waters and dunes/beaches including riprap revetments and associated backfill, marsh toe stabilization, bulkheads and associated backfill, breakwaters, beach nourishment, groins, jetties, and living shoreline projects. Answer all questions that apply. Please provide any reports provided from the Shoreline Erosion Advisory Service or VIMS.

NOTE: It is the policy of the Commonwealth that living shorelines are the preferred alternative for stabilizing tidal shorelines (Va. Code § 28.2-104.1). **Information on non-structural, vegetative alternatives (i.e., Living Shoreline) for shoreline stabilization is available at http://ccrm.vims.edu/coastal_zone/living_shorelines/index.html.**

1. Describe each **revetment, bulkhead, marsh toe, breakwater, groin, jetty, other structure, or living shoreline project** separately in the space below. Include the overall length in linear feet, the amount of impacts in acres, and volume of associated backfill below mean high water and/or ordinary high water in cubic yards, as applicable:

2. What is the maximum encroachment channelward of mean high water? _____ feet.
Channelward of mean low water? _____ feet.
Channelward of the back edge of the dune or beach? _____ feet.

3. Please calculate the square footage of encroachment over:

- Vegetated wetlands _____ square feet
- Non-vegetated wetlands _____ square feet
- Subaqueous bottom _____ square feet
- Dune and/or beach _____ square feet

N/A 4. For bulkheads, is any part of the project maintenance or replacement of a previously authorized, currently serviceable, existing structure? ____ Yes ____ No.

If yes, will the construction of the new bulkhead be no further than two (2) feet channelward of the existing bulkhead? ____ Yes ____ No.

If no, please provide an explanation for the purpose and need for the additional encroachment.

Part 3 – Appendices (continued)

5. Describe the type of construction and **all** materials to be used, including source of backfill material, if applicable (e.g., vinyl sheet-pile bulkhead, timber stringers and butt piles, 100% sand backfill from upland source; broken concrete core material with Class II quarry stone armor over filter cloth).

NOTE: Drawings must include construction details, including dimensions, design and all materials, including fittings if used.

6. If using stone, broken concrete, etc. for your structure(s), what is the average weight of the:
Core (inner layer) material _____ pounds per stone Class size _____
Armor (outer layer) material _____ pounds per stone Class size _____

- N/A 7. For **beach nourishment**, including that associated with breakwaters, groins or other structures, provide the following:

- Volume of material _____ cubic yards channelward of mean low water
 _____ cubic yards landward of mean low water
 _____ cubic yards channelward of mean high water
 _____ cubic yards landward of mean high water

- Area to be covered _____ square feet channelward of mean low water
 _____ square feet landward of mean low water
 _____ cubic yards channelward of mean high water
 _____ cubic yards landward of mean high water

- Source of material, composition (e.g. 90% sand, 10% clay): _____
- Method of transportation and placement: _____

- Describe any proposed vegetative stabilization measures to be used, including planting schedule, spacing, monitoring, etc. Additional guidance is available at <http://www.vims.edu/about/search/index.php?q=planting+guidelines>:

**ENGINEER/SURVEYOR'S INSPECTION STATEMENT
FOR
WATERFRONT CONSTRUCTION/COASTAL PRIMARY SAND DUNE PROJECTS**

REVISED 10-09-03

PROJECT LOCATION: 1725 RIVER CT

APPLICANT'S NAME: DAVID AND JOAN MICHAUD

APPLICANT'S ADDRESS: 1725 RIVER CT

Virginia Beach, VA 23454

ENGINEER OF RECORD: David Kledzik

PROFESSIONAL ENGINEER/ SURVEYOR
CERTIFYING PROJECT

CONSTRUCTION: David Kledzik

AT THE COMPLETION OF A WATERFRONT CONSTRUCTION/COASTAL PRIMARY SAND DUNE PROJECT IT IS REQUIRED THAT A CERTIFICATION BY THE APPROVING ENGINEER/SURVEYOR BE SUBMITTED, STATING THAT THEY HAVE INSPECTED THE REFERENCED PROJECT SITE AND TO THE BEST OF THEIR KNOWLEDGE, THE WATERFRONT/COASTAL PRIMARY SAND DUNE PROJECT HAS BEEN CONSTRUCTED IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS. SUCH CERTIFICATION SHALL BE SEALED BY THE ENGINEER OR SURVEYOR CERTIFYING THE CONSTRUCTION.

THIS FORM MUST BE COMPLETED AND RETURNED TO THE DEPARTMENT OF PLANNING, WATERFRONT OPERATIONS OFFICE WITH ALL APPLICATIONS FOR WATERFRONT CONSTRUCTION/COASTAL PRIMARY SAND DUNE PROJECTS AT THE TIME OF SUBMITTAL.



2/28/2022

SIGNATURE OF ENGINEER/SURVEYOR CERTIFYING CONSTRUCTION

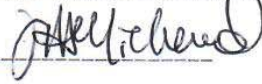
DATE

David Kledzik

TYPE OR PRINT NAME OF ENGINEER/SURVEYOR CERTIFYING CONSTRUCTION



SIGNATURE OF APPLICANT



2/28/2022

DATE

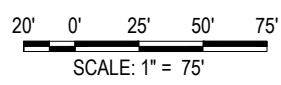
SIGNATURE OF COASTAL ZONE ADMINISTRATOR

DATE

ANY ALTERATION OF THIS FORM OR ITS ENDORSEMENTS WITHOUT THE EXPRESS CONSENT FROM THE ORIGINATOR SHALL INVALIDATE THIS INSTRUMENT.

APPLICATION NO. _____

SITE PLAN OF PROPOSED RIPRAP AND MARSH SILL PROJECT



SEQUENCE & TIME LINE OF CONSTRUCTION

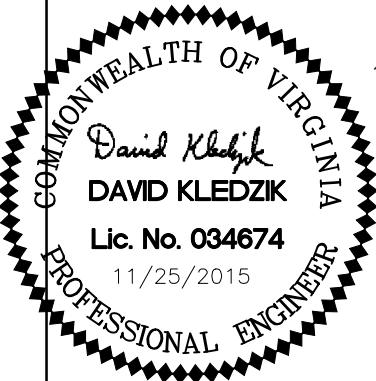
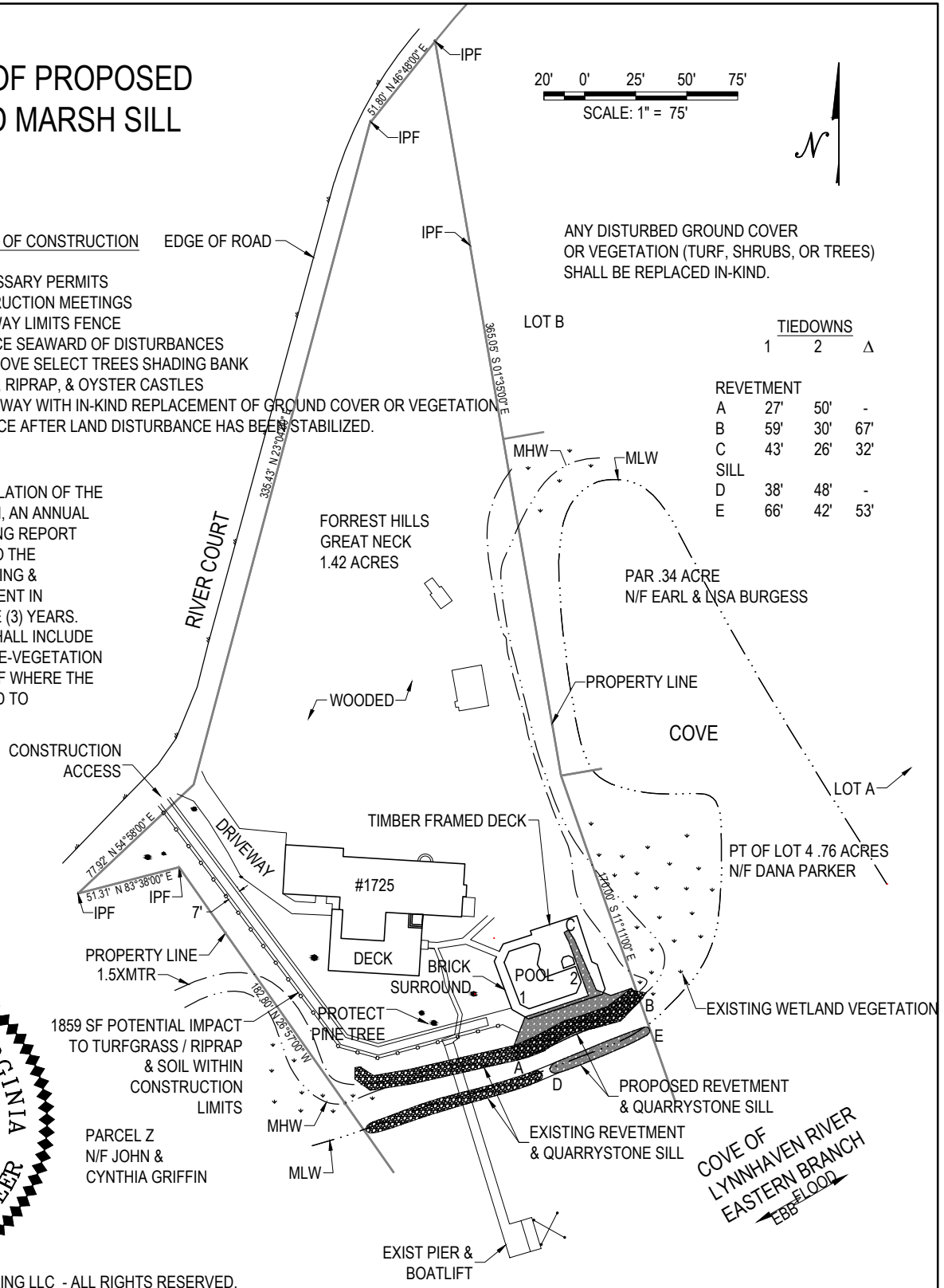
1. OBTAIN ALL NECESSARY PERMITS
2. HOLD PRECONSTRUCTION MEETINGS
3. INSTALL ACCESSWAY LIMITS FENCE
4. INSTALL SILT FENCE SEAWARD OF DISTURBANCES
5. LIMB UP &/OR REMOVE SELECT TREES SHADING BANK
6. INSTALL COIL LOG, RIPRAP, & OYSTER CASTLES
7. RESTORE ACCESSWAY WITH IN-KIND REPLACEMENT OF GROUND COVER OR VEGETATION
8. REMOVE SILT FENCE AFTER LAND DISTURBANCE HAS BEEN STABILIZED.

ANY DISTURBED GROUND COVER OR VEGETATION (TURF, SHRUBS, OR TREES) SHALL BE REPLACED IN-KIND.

TIEDOWNS		
1	2	Δ

REVETMENT		
A	27'	50'
B	59'	30'
C	43'	26'
SILL		
D	38'	48'
E	66'	42'

FOLLOWING THE INSTALLATION OF THE WETLANDS VEGETATION, AN ANNUAL VEGETATION MONITORING REPORT SHALL BE SUBMITTED TO THE DEPARTMENT OF PLANNING & COMMUNITY DEVELOPMENT IN MID-AUGUST FOR THREE (3) YEARS. THE ANNUAL REPORT SHALL INCLUDE PHOTOGRAPHS AND A RE-VEGETATION PLAN FOR ANY AREAS OF WHERE THE VEGETATION HAS FAILED TO ESTABLISH.



© 2022 MARINE ENGINEERING LLC - ALL RIGHTS RESERVED.

APPLICANT:
DAVID & JOAN MICHAUD
1725 RIVER CT
VIRGINIA BEACH, VA 23454
ADJACENT PROPERTY OWNERS
(SHOWN ON SHEET 1)

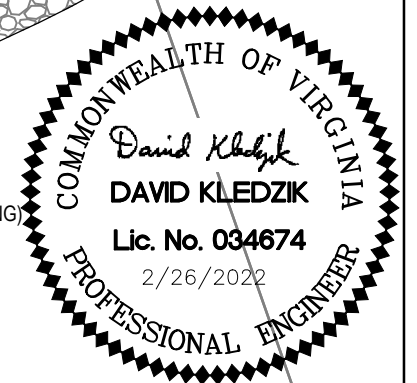
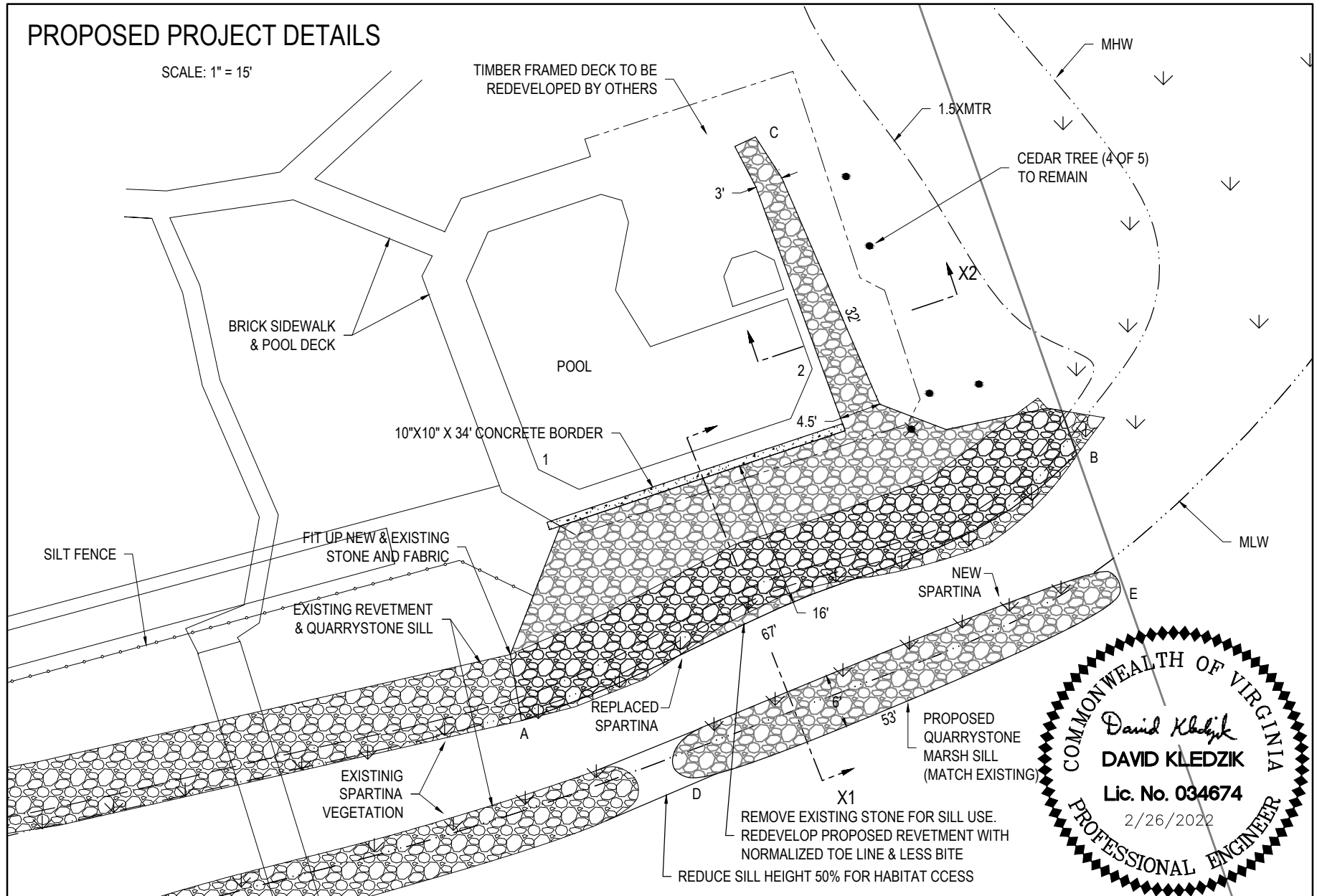
MARINE ENGINEERING LLC
PO BOX 5965
VIRGINIA BEACH, VA 23471
PH: (757) 477-4787

PROPOSED PROJECT FOR EROSION CONTROL
DATUM: MLW = 0.00'
SHEET 1 OF 4
DATE: FEBRUARY 25, 2022
REV -

JOB NUMBER 21167

PROPOSED PROJECT DETAILS

SCALE: 1" = 15'



APPLICANT:
DAVID & JOAN MICHAUD
1725 RIVER CT
VIRGINIA BEACH, VA 23454

MARINE ENGINEERING LLC
PO BOX 5965
VIRGINIA BEACH, VA 23471
PH: (757) 477-4787

PROPOSED PROJECT FOR EROSION CONTROL

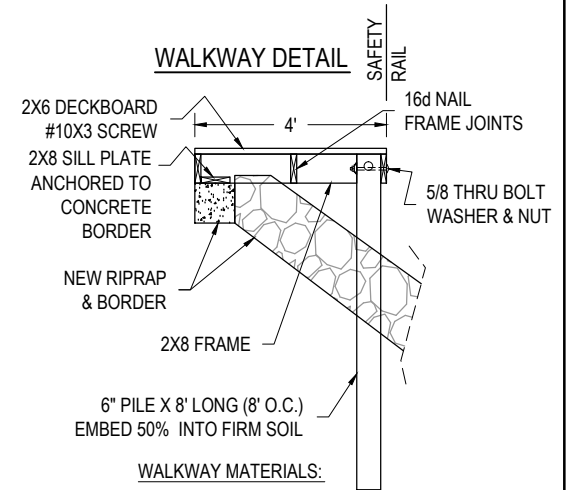
DATUM: MLW = 0.00'

SHEET 2 OF 4
DATE: FEBRUARY 25, 2022
REV -

SECTION X1 - X1 PROPOSED RIPRAP DETAILS

SCALE: 1" = 4'

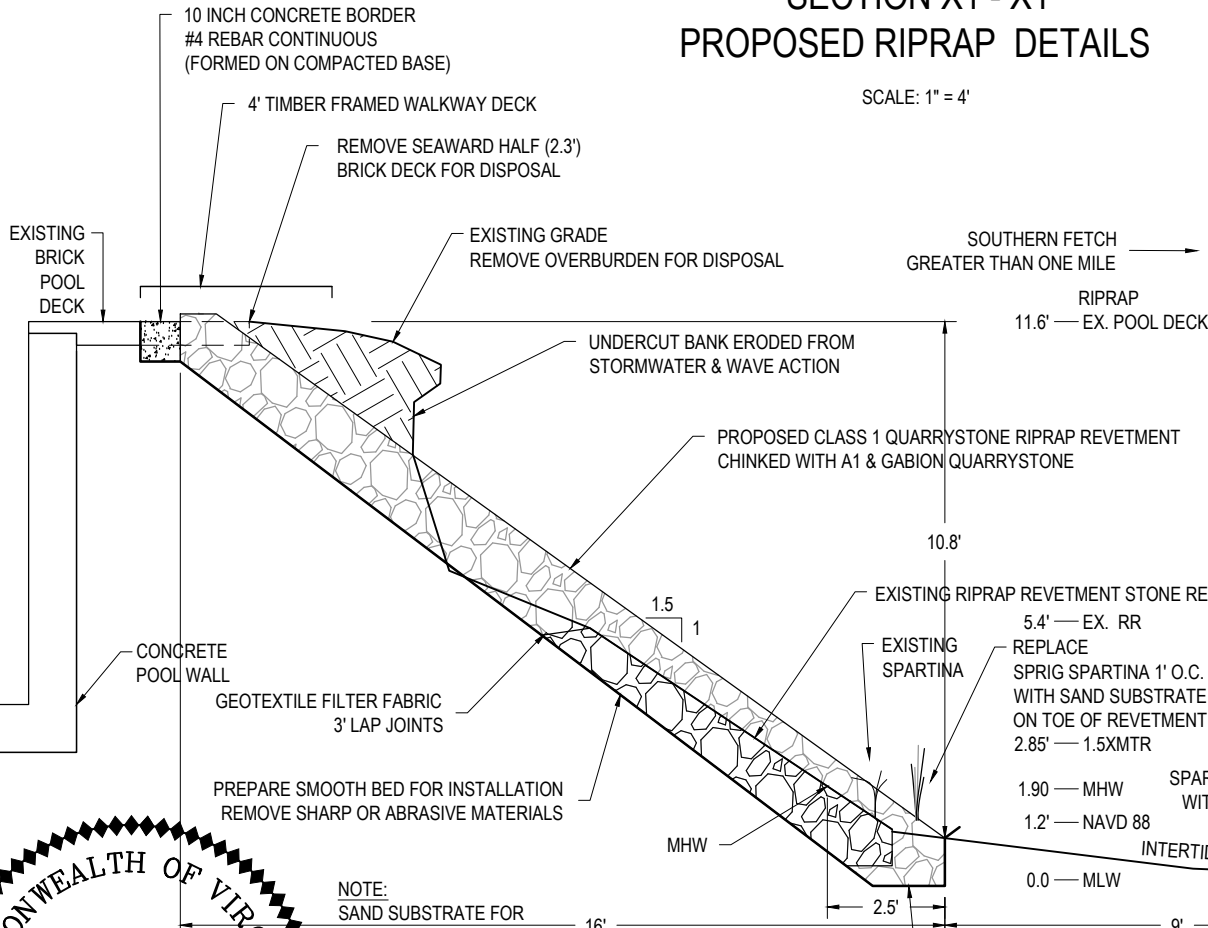
WALKWAY DETAIL



WALKWAY MATERIALS:

MARINE CONSTRUCTION GRADE HARDWARE
HOT DIPPED GALVANIZED PER ASTM 153

MARINE CONSTRUCTION GRADE SOUTHERN PINE
TIMBER TREATED IAW AWPA FOR UC5B USE
USE ACQ FOR PERSONAL CONTACT SURFACES
USE 1.0 PCF WOOD TREATMENT TYPICAL
USE 2.5 PCF CCA FOR PILES
GRADE #2 OR BETTER



NOTE:
SAND SUBSTRATE FOR
IMPROVED STABILITY OF
PLANTINGS TO BE CRUSHED
STONE AGGREGATE FROM
UPLAND SOURCE SIMILAR TO
VULCAN MATERIALS
WESTMINSTER YARD & NAMED
WHITE CONCRETE SAND.
WELL GRADED:
#8 SIEVE 93% PASSING TO
#200 SIEVE 1.7% PASSING

RIPRAP MATERIALS:

VDOT CLASS 1 GRANITE
QUARRYSTONE RIPRAP
GEOTEXTILE FILTER FABRIC
US670
3000 PSI CONCRETE
#4 REBAR

DESIGN BASED ON STANDARD PRACTICES WITHOUT THE BENEFIT OF SOILS TESTING. NO ALLOWANCES HAVE BEEN MADE FOR UNKNOWN SUBSOIL CONDITIONS. DEVELOPER SHALL MONITOR INSTALLATION AND PILE DRIVING RESISTANCE TO ASCERTAIN SUBSOIL CONDITIONS AND ADEQUATE PENETRATION AND CONTACT THE ENGINEER OF RECORD IF EITHER MINIMUM PENETRATION DEPTHS OF PILES CANNOT BE MET OR IF SOIL DISCOVERED NOT FIRM. ESTIMATED PILE LENGTHS SHOWN MAY REQUIRE GREATER LENGTH TO ACHIEVE 50% PENETRATION INTO FIRM SOIL. ALL DIMENSIONS AND MATERIAL SPECIFICATIONS ARE MINIMUMS UNLESS OTHERWISE SPECIFIED.

ALL MATERIALS REMOVED SHALL BE PROPERLY DISPOSED IN LAWFUL MANNER



APPLICANT:
DAVID & JOAN MICHAUD
1725 RIVER CT
VIRGINIA BEACH, VA 23454

MARINE ENGINEERING LLC
PO BOX 5965
VIRGINIA BEACH, VA 23471
PH: (757) 477-4787

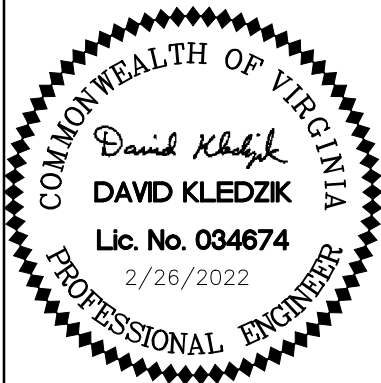
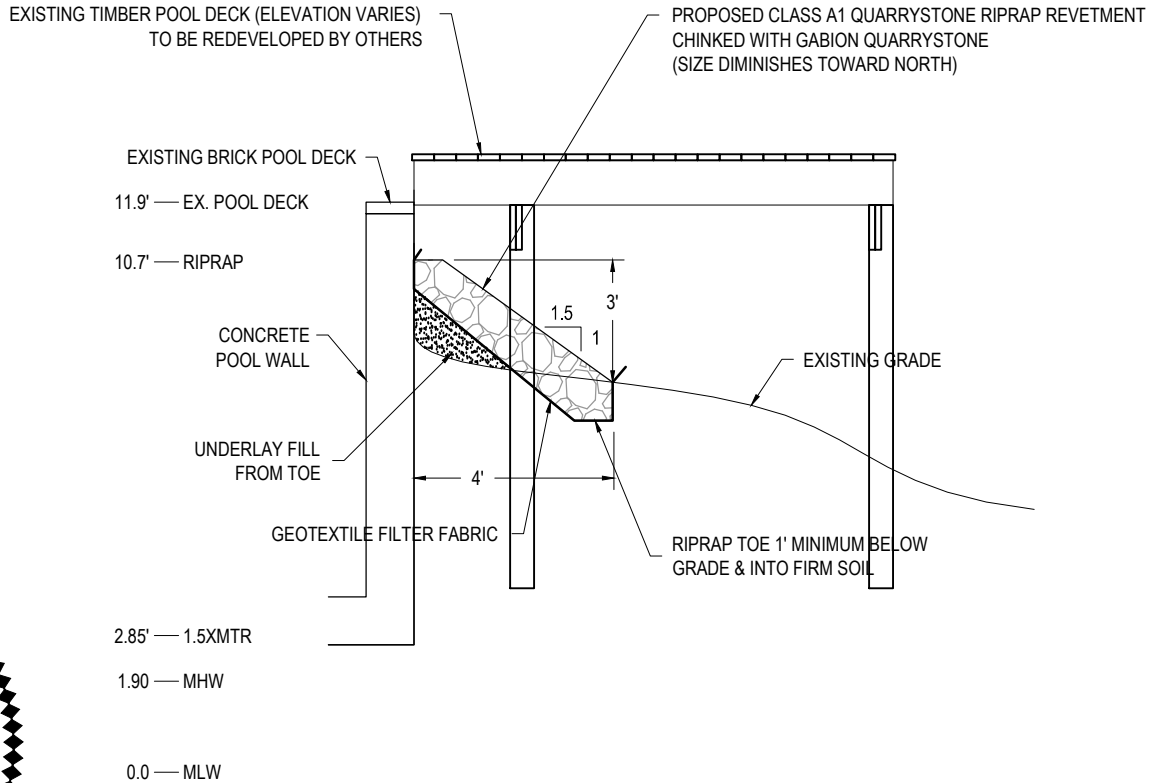
PROPOSED PROJECT FOR EROSION CONTROL

DATUM: MLW = 0.00'

SHEET 3 OF 4
DATE: FEBRUARY 25, 2022
REV -

SECTION X2 - X2 PROPOSED RIPRAP DETAILS

SCALE: 1" = 4'



APPLICANT:
DAVID & JOAN MICHAUD
1725 RIVER CT
VIRGINIA BEACH, VA 23454

MARINE ENGINEERING LLC
PO BOX 5965
VIRGINIA BEACH, VA 23471
PH: (757) 477-4787

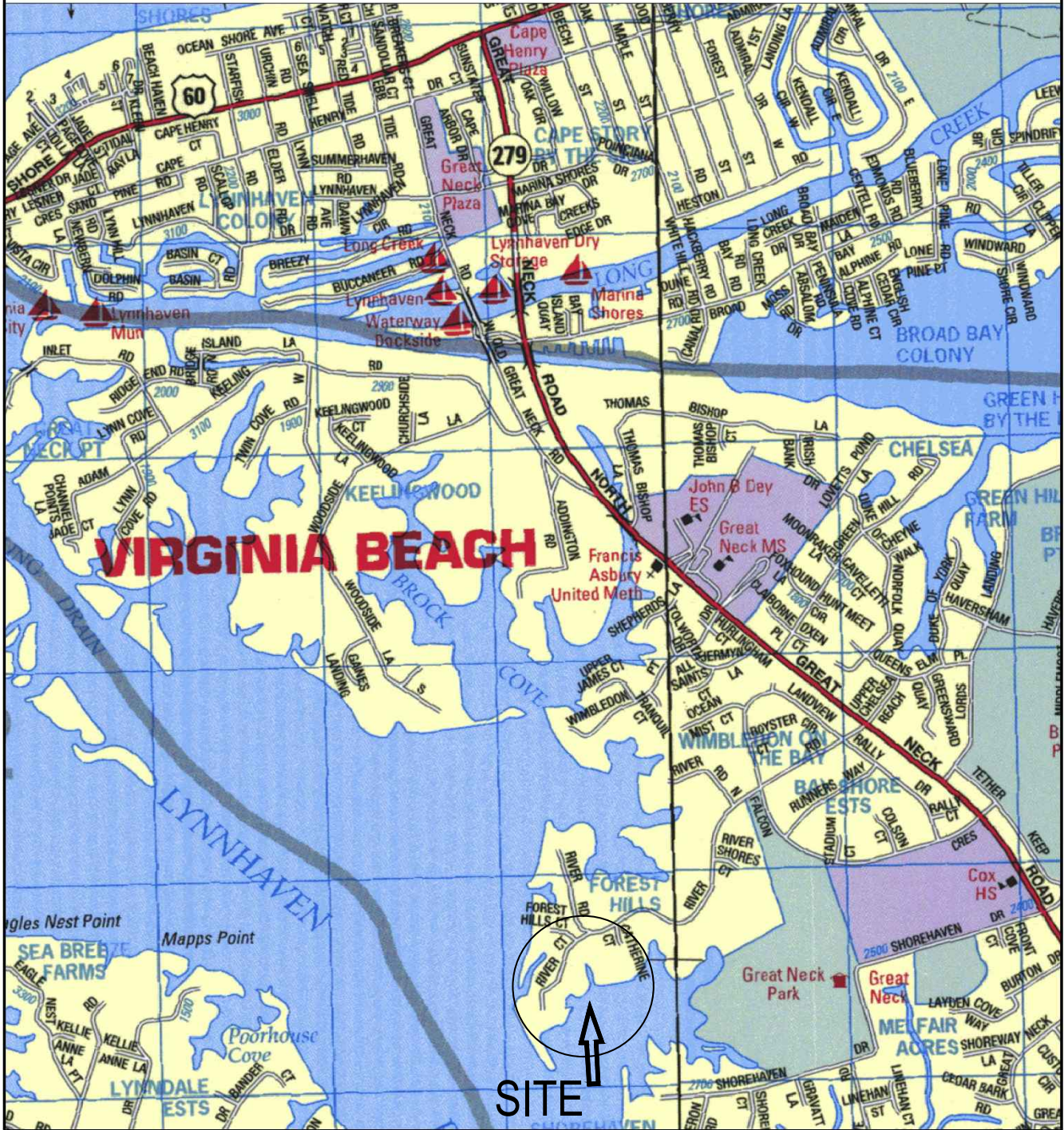
PROPOSED PROJECT FOR EROSION CONTROL

DATUM: MLW = 0.00'

SHEET 4 OF 4
DATE: FEBRUARY 25, 2022
REV —

AREA MAP OF 1725 RIVER ROAD VIRGINIA BEACH, VA 23454

SCALE 1" : 1500'



7. 2022-WTRA-00063

Five2Peers Real Estate Trust [Applicant & Owner]

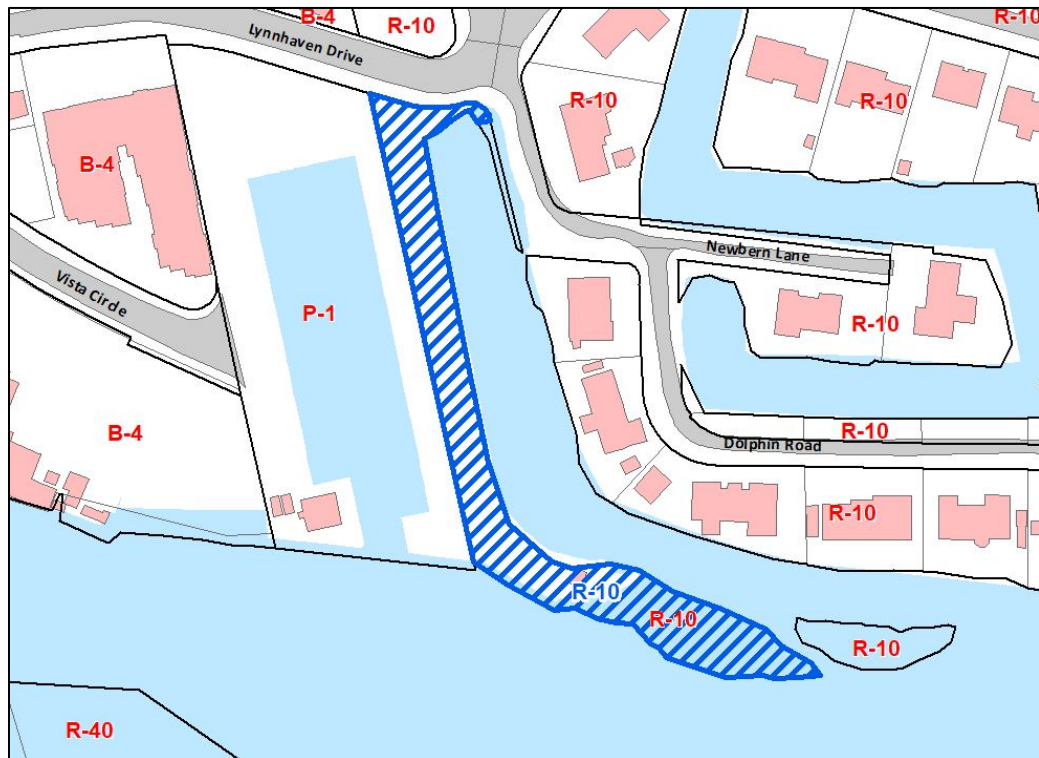
To dredge and construct groin wall and rip rap sill involving wetlands

3201 Lynnhaven Dr
(GPIN 1489-97-6836)

Waterway – Long Creek

Subdivision – Shore Dr

City Council District: District 5, formerly Lynnhaven



Disclosure Statement



The disclosures contained in this form are necessary to inform public officials who may vote on the application as to whether they have a conflict of interest under Virginia law. The completion and submission of this form is required for all applications that pertain to City real estate matters or to the development and/or use of property in the City of Virginia Beach requiring action by the City Council or a City board, commission or other body.

Applicant Disclosure

Applicant Name Five2Peers Real Estate Trust, c/o Allan Wall

Does the applicant have a representative? **Yes** **No**

- If **yes**, list the name of the representative.

Waterfront Consulting Inc.

Is the applicant a corporation, partnership, firm, business, trust or an unincorporated business? **Yes** **No**

- If **yes**, list the names of all officers, directors, members, trustees, etc. below. (Attach a list if necessary)

Allan Wall, David Mims, Jeffrey Thompson

- If **yes**, list the businesses that have a parent-subsiary¹ or affiliated business entity² relationship with the applicant. (Attach a list if necessary)

¹ "Parent-subsiary relationship" means "a relationship that exists when one corporation directly or indirectly owns shares possessing more than 50 percent of the voting power of another corporation." See State and Local Government Conflict of Interests Act, VA. Code § 2.2-3101.

² "Affiliated business entity relationship" means "a relationship, other than parent-subsiary relationship, that exists when (i) one business entity has a controlling ownership interest in the other business entity, (ii) a controlling owner in one entity is also a controlling owner in the other entity, or (iii) there is shared management or control between the business entities. Factors that should be considered in determining the existence of an affiliated business entity relationship include that the same person or substantially the same person own or manage the two entities; there are common or commingled funds or assets; the business entities share the use of the same offices or employees or otherwise share activities, resources or personnel on a regular basis; or there is otherwise a close working relationship between the entities." See State and Local Government Conflict of Interests Act, Va. Code § 2.2-3101.

Known Interest by Public Official or Employee

Does an **official or employee of the City of Virginia Beach** have an interest in the subject land or any proposed development contingent on the subject public action? **Yes** **No**

- If **yes**, what is the name of the official or employee and what is the nature of the interest?
-

Applicant Services Disclosure

1. Does the applicant have **any existing financing (mortgage, deeds of trust, cross-collateralization, etc) or are they considering any financing** in connection with the subject of the application or any business operating or to be operated on the property?

Yes **No**

- If **yes**, identify the financial institutions.
-

2. Does the applicant have a **real estate broker/agent/realtor** for current and anticipated future sales of the subject property?

Yes **No**

- If **yes**, identify the real estate broker/realtor.
-

3. Does the applicant have services for **accounting and/or preparation of tax returns** provided in connection with the subject of the application or any business operating or to be operated on the property? **Yes** **No**

- If **yes**, identify the firm or individual providing the service.
-

4. Does the applicant have services from an **architect/landscape architect/land planner** provided in connection with the subject of the application or any business operating or to be operated on the property? **Yes** **No**

- If **yes**, identify the firm or individual providing the service.
-

5. Is there any other **pending or proposed purchaser** of the subject property? **Yes** **No**

- If **yes**, identify the purchaser and purchaser's service providers.
-

Disclosure Statement



6. Does the applicant have a **construction contractor** in connection with the subject of the application or any business operating or to be operated on the property? Yes No

- If **yes**, identify the construction contractor.

Project out for bid

7. Does the applicant have an **engineer/surveyor/agent** in connection with the subject of the application or any business operating or to be operated on the property? Yes No

- If **yes**, identify the engineer/surveyor/agent.

Waterfront Consulting, Inc, Sean E. Green, P.E.

8. Is the applicant receiving **legal services** in connection with the subject of the application or any business operating or to be operated on the property? Yes No

- If **yes**, identify the name of the attorney or firm providing legal services.

Applicant Signature

I certify that all of the information contained in this Disclosure Statement Form is complete, true, and accurate. I understand that, upon receipt of notification that the application has been scheduled for public hearing, **I am responsible for updating the information provided herein two weeks prior to the meeting of Planning Commission, City Council, VBDA, CBPA, Wetlands Board or any public body or committee in connection with this application.**

Applicant Signature

ALAN D. WALL, TRUSTEE FIVE-2 PEERS

Print Name and Title

2 MARCH 2022

Date

Is the applicant also the owner of the subject property? Yes No

- If **yes**, you do not need to fill out the owner disclosure statement.

FOR CITY USE ONLY/ All disclosures must be updated two (2) weeks prior to any Planning Commission and City Council meeting that pertains to the applications

<input type="checkbox"/>	No changes as of	Date	Signature	
			Print Name	

FOR AGENCY USE ONLY

	Notes:
JPA#	

APPLICANTS

PLEASE PRINT OR TYPE ALL ANSWERS. If a question does not apply to your project, please print N/A (not applicable) in the space provided. **If additional space is needed, attach extra 8 ½ x 11 inch sheets of paper.**

Check all that apply

<input type="checkbox"/> Pre-Construction Notification (PCN)	<input type="checkbox"/> SPGP	<input type="checkbox"/> DEQ Reapplication Existing permit number: _____	<input type="checkbox"/> Receiving federal funds Agency providing funding: _____
<input type="checkbox"/> NWP # _____			
<input type="checkbox"/> RP # 05 <i>(For NWP's & RP 05 ONLY - No DEQ-VWP permit writer will be assigned)</i>			
<input type="checkbox"/> Regional Permit 17 Checklist (RP-17)	This project and the previous JPA have been discussed with Melissa Nash		

PREVIOUS ACTIONS RELATED TO THE PROPOSED WORK (Include all federal, state, and local pre application coordination, site visits, previous permits, or applications whether issued, withdrawn, or denied)

Historical information for past permit submittals can be found online with VMRC - <https://webapps.mrc.virginia.gov/public/habitat/> - or VIMS - <http://ccm.vims.edu/perms/newpermits.html>

Agency	Action / Activity	Permit/Project number, including any non-reporting Nationwide permits previously used (e.g., NWP 13)	Date of Action	If denied, give reason for denial

1. APPLICANT, AGENT, PROPERTY OWNER, AND CONTRACTOR INFORMATION

The applicant(s) is/are the legal entity to which the permit may be issued (see How to Apply at beginning of form). The applicant(s) can either be the property owner(s) or the person/people/company(ies) that intend(s) to undertake the activity. The agent is the person or company that is representing the applicant(s). If a company, please also provide the company name that is registered with the State Corporation Commission (SCC), or indicate no registration with the SCC.

Legal Name(s) of Applicant(s) Five2Peers Real Estate Trust, c/o Allan Wall				Agent (if applicable) Waterfront Consulting Inc.		
Mailing address 3109 Sand Pine Road				Mailing address 2589 Quality Court, Ste. 323		
City Virginia Beach	State VA	ZIP Code 23451	City Virginia Beach	State VA	ZIP Code 23454	
Phone number w/area code	Fax		Phone number w/area code 757-425-8244	Fax		
Mobile 757-615-2276	E-mail calwall@cox.net		Mobile 757-619-7302	E-mail bob@waterfrontconsulting.net		
State Corporation Commission Name and ID number (if applicable)			State Corporation Commission Name and ID number (if applicable) 04743811			

Certain permits or permit authorizations may be provided via electronic mail. If the applicant wishes to receive their permit via electronic mail, please provide an e-mail address here: calwall@cox.net

1. APPLICANT, AGENT, PROPERTY OWNER, AND CONTRACTOR INFORMATION (Continued)					
Property owner(s) legal name, if different from applicant Same as applicant			Contractor, if known Unknown		
Mailing address			Mailing address		
City	State	ZIP code	City	State	ZIP code
Phone number w/area code	Fax		Phone number w/area code	Fax	
Mobile	E-mail		Mobile	E-mail	
State Corporation Commission Name and ID number (if applicable)			State Corporation Commission Name ID number (if applicable)		

2. PROJECT LOCATION INFORMATION (Attach a copy of a detailed map, such as a USGS topographic map or street map showing the site location and project boundary, so that it may be located for inspection. Include an arrow indicating the north direction. Include the drainage area if the SPGP box is checked on Page 7.)	
Street Address (911 address if available) 3201 Lynnhaven Drive	City/County/ZIP Code Virginia Beach, VA 23451
Subdivision Lynnhaven Colony	Lot/Block/Parcel # Marina Parcel, Section 3, Lynnhaven Colony
Name of water body(ies) within project boundaries and drainage area (acres or square miles). Long Creek, Drainage Area > 5 Square Miles	
Tributary(ies) to: <u>Chesapeake Bay</u> Basin: <u>Lynnhaven River</u> Sub-basin: <u>Long Creek</u> (Example: Basin: <u>James River</u> Sub-basin: <u>Middle James River</u>)	
Special Standards (based on DEQ Water Quality Standards 9VAC25-260 et seq.): _____	
Project type (check one) <input type="checkbox"/> Single user (private, non-commercial, residential) <input checked="" type="checkbox"/> Multi-user (community, commercial, industrial, government) <input type="checkbox"/> Surface water withdrawal	
Latitude and longitude at center of project site (decimal degrees): _____ 36.90474 / _ 76.08321 (Example: 37.33164/-77.68200)	
USGS topographic map name: <u>City of Virginia Beach</u>	
8-digit USGS Hydrologic Unit Code (HUC) for your project site (See http://cfpub.epa.gov/surf/locate/index.cfm): <u>02080108</u> If known, indicate the 10-digit and 12-digit USGS HUCs (see http://consapps.dcr.virginia.gov/htdocs/maps/HUExplorer.htm): <u>0208010802</u> <u>020801080201</u>	
Name of your project (Example: <i>Water Creek driveway crossing</i>) <u>Five2Peers Maintenance Dredging</u>	
Is there an access road to the project? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No. If yes, check all that apply: <input checked="" type="checkbox"/> public <input type="checkbox"/> private <input checked="" type="checkbox"/> improved <input type="checkbox"/> unimproved	
Total size of the project area (in acres): <u>0.191 acres, Dredge Area, Riprap and Transfer Area</u>	

2. PROJECT LOCATION INFORMATION (Continued)

Provide driving directions to your site, giving distances from the best and nearest visible landmarks or major intersections:
The project is located on public roads.

Does your project site cross boundaries of two or more localities (i.e., cities/counties/towns)? Yes No
If so, name those localities: _____

3. DESCRIPTION OF THE PROJECT, PROJECT PRIMARY AND SECONDARY PURPOSES, PROJECT NEED, INTENDED USE(S), AND ALTERNATIVES CONSIDERED (Attach additional sheets if necessary)

- The purpose and need must include any new development or expansion of an existing land use and/or proposed future use of residual land.
- Describe the physical alteration of surface waters, including the use of pilings (#, materials), vibratory hammers, explosives, and hydraulic dredging, when applicable, and *whether or not tree clearing will occur* (include the area in square feet and time of year).
- Include a description of alternatives considered and measures taken to avoid or minimize impacts to surface waters, including wetlands, to the maximum extent practicable. Include factors such as, but not limited to, alternative construction technologies, alternative project layout and design, alternative locations, local land use regulations, and existing infrastructure
- For utility crossings, include both alternative routes and alternative construction methodologies considered
- For surface water withdrawals, public surface water supply withdrawals, or projects that will alter in stream flows, include the water supply issues that form the basis of the proposed project.

The project is to maintenance dredge the entrance to the boat basin and the first 5 boat slips on the west side of the project site. The dredging will total 403 CYs (6,067 SF) of sub-aqueous bottom and 9 CY's (177 SF) of NVW. Approximately 26 LF of MHW sill (groin wall) as shown in the permit drawings will be constructed. A 25LF riprap sill will be constructed to protect the vegetated wetlands on site. The riprap sill will be placed on existing riprap.

The groin wall will use (12) 10" timber piles driven via a vibratory hammer mounted to an excavator on a barge. All spoils from the proposed dredging will be transferred on site to sealed dump trucks for ultimate disposal at the Whitehurst Dredge Spoils Management Area.

Date of proposed commencement of work (MM/DD/YYYY)
05/01/2022

Date of proposed completion of work (MM/DD/YYYY)
05/01/2025

Are you submitting this application at the direction of any state, local, or federal agency? ____ Yes X No

Has any work commenced or has any portion of the project for which you are seeking a permit been completed?
____ Yes X No

If you answered "yes" to either question above, give details stating when the work was completed and/or when it commenced, who performed the work, and which agency (if any) directed you to submit this application. In addition, you will need to clearly differentiate between completed work and proposed work on your project drawings.

Are you aware of any unresolved violations of environmental law or litigation involving the property? ____ Yes X No
(If yes, please explain)

4. PROJECT COSTS

Approximate cost of the entire project, including materials and labor: \$ 125,000.00

Approximate cost of only the portion of the project affecting state waters (channelward of mean low water in tidal areas and below ordinary high water mark in nontidal areas): \$ 120,000.00

5. PUBLIC NOTIFICATION (Attach additional sheets if necessary)

Complete information for all property owners adjacent to the project site and across the waterway, if the waterway is less than 500 feet in width. If your project is located within a cove, you will need to provide names and mailing addresses for all property owners within the cove. If you own the adjacent lot, provide the requested information for the first adjacent parcel beyond your property line. Per Army Regulation (AR 25-51) outgoing correspondence must be addressed to a person or business.

Failure to provide this information may result in a delay in the processing of your application by VMRC.

Property owner's name	Mailing address	City	State	ZIP code
City of Virginia Beach	2401 Courthouse Drive	Virginia Beach	Virginia	23456
Charles H. Hall	3124 Lynnhaven Drive	Virginia Beach	Virginia	23451
Michael S. Brennan	3125 Dolphin Road	Virginia Beach	Virginia	23451
Martin J. Janzen	3121 Dolphin Road	Virginia Beach	Virginia	23451
David W. Ramsay	3117 Dolphin Road	Virginia Beach	Virginia	23451

Name of newspaper having general circulation in the area of the project: Virginian Pilot

Address and phone number (including area code) of newspaper 150 W. Brambleton Avenue, Norfolk, VA 23510

Have adjacent property owners been notified with forms in Appendix A? Yes No (attach copies of distributed forms)

6. THREATENED AND ENDANGERED SPECIES INFORMATION

Please provide any information concerning the potential for your project to impact state and/or federally threatened and endangered species (listed or proposed). Attach correspondence from agencies and/or reference materials that address potential impacts, such as database search results or confirmed waters and wetlands delineation/jurisdictional determination. Include information when applicable regarding the location of the project in Endangered Species Act-designated or -critical habitats. Contact information for the U.S. Fish and Wildlife Service, National Oceanic and Atmospheric Administration, Virginia Dept. of Game and Inland Fisheries, and the Virginia Dept. of Conservation and Recreation-Division of Natural Heritage can be found on page 4 of this package.

7. HISTORIC RESOURCES INFORMATION

Note: Historic properties include but are not limited to archeological sites, battlefields, Civil War earthworks, graveyards, buildings, bridges, canals, etc. Prospective permittees should be aware that section 110k of the NHPA (16 U.S.C. 470h-2(k)) prevents the USACE from granting a permit or other assistance to an applicant who, with intent to avoid the requirements of Section 106 of the NHPA, has intentionally significantly adversely affected a historic property to which the permit would relate, or having legal power to prevent it, allowed such significant adverse effect to occur, unless the USACE, after consultation with the Advisory Council on Historic Preservation (ACHP), determines that circumstances justify granting such assistance despite the adverse effect created or permitted by the applicant.

Are any historic properties located within or adjacent to the project site? Yes No Uncertain
If Yes, please provide a map showing the location of the historic property within or adjacent to the project site.

Are there any buildings or structures 50 years old or older located on the project site? Yes No Uncertain
If Yes, please provide a map showing the location of these buildings or structures on the project site.

Is your project located within a historic district? Yes No Uncertain

If Yes, please indicate which district: _____

7. HISTORIC RESOURCES INFORMATION (Continued)

Has a survey to locate archeological sites and/or historic structures been carried out on the property?

Yes No Uncertain

If Yes, please provide the following information: Date of Survey: _____

Name of firm: _____

Is there a report on file with the Virginia Department of Historic Resources? Yes No Uncertain

Title of Cultural Resources Management (CRM) report: _____

Was any historic property located? Yes No Uncertain

8. WETLANDS, WATERS, AND DUNES/BEACHES IMPACT INFORMATION

Report each impact site in a separate column. If needed, attach additional sheets using a similar table format. Please ensure that the associated project drawings clearly depict the location and footprint of each numbered impact site. For dredging, mining, and excavating projects, use Section 17.

	Impact site number 1	Impact site number 2	Impact site number 3	Impact site number 4	Impact site number 5
Impact description (use all that apply): F=fill EX=excavation S=Structure T=tidal NT=non-tidal TE=temporary PE=permanent PR=perennial IN=intermittent SB=subaqueous bottom DB=dune/beach IS=hydrologically isolated V=vegetated NV=non-vegetated MC=Mechanized Clearing of PFO (Example: F, NT, PE, V)	EX, T, SB, NV	T, S, PE			
Latitude / Longitude (in decimal degrees)	36.90473534, -76.0832067	36.90473534, -76.0832067			
Wetland/waters impact area (square feet / acres)	6,278 SF 0.144 acres	150 SF 0.003 ACRES			
Dune/beach impact area (square feet)	N/A	N/A			
Stream dimensions at impact site (length and average width in linear feet, and area in square feet)	Length - 351 LF Area - 48,287 SF Width - 80'				
Volume of fill below Mean High Water or Ordinary High Water (cubic yards)	None				

8. WETLANDS/WATERS IMPACT INFORMATION (Continued)

Cowardin classification of impacted wetland/water or geomorphological classification of stream <i>Example wetland: PFO;</i> <i>Example stream: 'C' channel and if tidal, whether vegetated or non-vegetated wetlands per Section 28.2-1300 of the Code of Virginia</i>	E1UBLx	E1UBLx			
Average stream flow at site (flow rate under normal rainfall conditions in cubic feet per second) and method of deriving it (gage, estimate, etc.)					
Contributing drainage area in acres or square miles (VMRC cannot complete review without this information)	> One Square Mile	>One Square Mile			
DEQ classification of impacted resource(s): Estuarine Class II Non-tidal waters Class III Mountainous zone waters Class IV Stockable trout waters Class V Natural trout waters Class VI Wetlands Class VII https://law.lis.virginia.gov	Estuarine Class II	Estuarine Class II			

For DEQ permitting purposes, also submit as part of this section a wetland and waters boundary delineation map – see (3) in the Footnotes section in the form instructions.

For DEQ permitting purposes, also submit as part of this section a written disclosure of all wetlands, open water, or streams that are located within the proposed project or compensation areas that are also under a deed restriction, conservation easement, restrictive covenant, or other land-use protective instrument.

9. APPLICANT, AGENT, PROPERTY OWNER, AND CONTRACTOR CERTIFICATIONS

READ ALL OF THE FOLLOWING CAREFULLY BEFORE SIGNING

PRIVACY ACT STATEMENT: The Department of the Army permit program is authorized by Section 10 of the Rivers and Harbors Act of 1899, Section 404 of the Clean Water Act, and Section 103 of the Marine Protection Research and Sanctuaries Act of 1972. These laws require that individuals obtain permits that authorize structures and work in or affecting navigable waters of the United States, the discharge of dredged or fill material into waters of the United States, and the transportation of dredged material for the purpose of dumping it into ocean waters prior to undertaking the activity. Information provided in the Joint Permit Application will be used in the permit review process and is a matter of public record once the application is filed. Disclosure of the requested information is voluntary, but it may not be possible to evaluate the permit application or to issue a permit if the information requested is not provided.

CERTIFICATION: I am hereby applying for permits typically issued by the DEQ, VMRC, USACE, and/or Local Wetlands Boards for the activities I have described herein. I agree to allow the duly authorized representatives of any regulatory or advisory agency to enter upon the premises of the project site at reasonable times to inspect and photograph site conditions, both in reviewing a proposal to issue a permit and after permit issuance to determine compliance with the permit.

In addition, I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

9. APPLICANT, AGENT, PROPERTY OWNER, AND CONTRACTOR CERTIFICATIONS (Continued)

Is/Are the Applicant(s) and Owner(s) the same? Yes No

Legal name & title of Applicant Five2Peers Real Estate Trust, c/o Allan Wall	Second applicant's legal name & title, if applicable
Applicant's signature <i>Allan Wall</i>	Second applicant's signature
Date 2 MAR 2022	Date
Property owner's legal name, if different from Applicant	Second property owner's legal name, if applicable
Property owner's signature, if different from Applicant	Second property owner's signature
Date	Date

CERTIFICATION OF AUTHORIZATION TO ALLOW AGENT(S) TO ACT ON APPLICANT'S(S)' BEHALF (IF APPLICABLE)

I (we), Five2Peers Real Estate Trust, c/o Allan Wall (and) _____,
 APPLICANT'S LEGAL NAME(S) – complete the second blank if more than one Applicant

hereby certify that I (we) have authorized Waterfront Consulting, Inc. (and) _____
 AGENT'S NAME(S) – complete the second blank if more than one Agent

to act on my (our) behalf and take all actions necessary to the processing, issuance, and acceptance of this permit and any and all standard and special conditions attached. I (we) hereby certify that the information submitted in this application is true and accurate to the best of my (our) knowledge.

Applicant's signature <i>Allan Wall</i>	Second applicant's signature, if applicable
Date 2 MAR 2022	Date
Agent's signature and title <i>Ray S. Simon</i>	Second agent's signature and title, if applicable
Date 3/3/2022	Date

CONTRACTOR ACKNOWLEDGEMENT (IF APPLICABLE)

I (we), Five2Peers Real Estate Trust, c/o Allan Wall (and) _____,
 APPLICANT'S LEGAL NAME(S) – complete the second blank if more than one Applicant

have contracted _____ (and) _____
 CONTRACTOR'S NAME(S) – complete the second blank if more than one Contractor

to perform the work described in this Joint Permit Application, signed and dated _____.

I (we) will read and abide by all conditions as set forth in all federal, state, and local permits as required for this project. I (we) understand that failure to follow the conditions of the permits may constitute a violation of applicable federal, state, and local statutes and that we will be liable for any civil and/or criminal penalties imposed by these statutes. In addition, I (we) agree to make available a copy of any permit to any regulatory representative visiting the project site to ensure permit compliance. If I (we) fail to provide the applicable permit upon request, I (we) understand that the representative will have the option of stopping our operation until it has been determined that we have a properly signed and executed permit and are in full compliance with all of the terms and conditions.

Contractor's name or name of firm (printed/typed)	Contractor's or firm's mailing address	
Contractor's signature and title	Contractor's license number	Date
Applicant's signature	Second applicant's signature, if applicable	
Date	Date	

15. TIDAL/NONTIDAL SHORELINE STABILIZATION STRUCTURES (INCLUDING BULKHEADS AND ASSOCIATED BACKFILL, RIPRAP REVETMENTS AND ASSOCIATED BACKFILL, MARSH TOE STABILIZATION, GROINS, JETTIES, AND BREAKWATERS, ETC.) Information on non structural, vegetative alternatives (i.e., Living Shoreline) for shoreline stabilization is available at http://ccrm.vims.edu/coastal_zone/living_shorelines/index.html.

Is any portion of the project maintenance or replacement of an existing and currently serviceable structure? Yes No
 If yes, give length of existing structure: _____ linear feet

If your maintenance project entails replacement of a bulkhead, is it possible to construct the replacement bulkhead within 2 feet channelward of the existing bulkhead? Yes No If not, please explain below:

Length of proposed structure, including returns: 26' sill wall linear feet and 25' riprap sill

Average channelward encroachment of the structure from Mean high water/ordinary high water mark: <u>10</u> feet	Maximum channelward encroachment of the structure from Mean high water/ordinary high water mark: <u>25</u> feet
Mean low water: <u>0</u> feet	Mean low water: <u>13</u> feet

Maximum channelward encroachment from the back edge of the Dune <u>N/A</u> feet	Maximum channelward encroachment from the back edge of the Beach <u>N/A</u> feet
---	--

Describe the type of construction including all materials to be used (including all fittings). Will filter cloth be used? Yes No
 The groin wall will be CCA treated timbers and H.D. galvanized hardware.

What is the source of the backfill material? N/A

What is the composition of the backfill material? N/A

If rock is to be used, give the average volume of material to be used for every linear foot of construction: 0.33 cubic yards
 What is the volume of material to be placed below the plane of ordinary high water mark/mean high water? 0.30 cubic yards

For projects involving stone:
 Average weight of core material (bottom layers): 35 pounds per stone (Class A1)
 Average weight of armor material (top layers): 100 pounds per stone (Class One)

Are there similar shoreline stabilization structures in the vicinity of your project site? Yes No
 If so, describe the type(s) and location(s) of the structure(s):
 There is riprap on site currently.

If you are building a groin or jetty, will the channelward end of the structure be marked to show a hazard to navigation?
 Yes No

Has your project been reviewed by the Shoreline Erosion Advisory Service (SEAS)? Yes No
 If yes, please attach a copy of their comments.

16. BEACH NOURISHMENT

Source of material and composition (percentage sand, silt, clay): _____	Volume of material: _____ cubic yards
--	---------------------------------------

Area to be covered _____ square feet channelward of mean low water _____ square feet channelward of mean high water
 _____ square feet landward of mean low water _____ square feet channelward of mean high water

Mode of transportation of material to the project site (truck, pipeline, etc.):

16. BEACH NOURISHMENT (Continued)

Describe the type(s) of vegetation proposed for stabilization and the proposed planting plan, including schedule, spacing, monitoring, etc. Attach additional sheets if necessary.

17. DREDGING, MINING, AND EXCAVATING

FILL OUT THE FOLLOWING TABLE FOR DREDGING PROJECTS

	NEW dredging				MAINTENANCE dredging			
	Hydraulic		Mechanical (clamshell, dragline, etc.)		Hydraulic		Mechanical (clamshell, dragline, etc.)	
	Cubic yards	Square feet	Cubic yards	Square feet	Cubic yards	Square feet	Cubic yards	Square feet
Vegetated wetlands								
Non-vegetated wetlands							9	177
Subaqueous land							403	6,067
Totals							412	6,244

Is this a one-time dredging event? Yes No If "no", how many dredging cycles are anticipated: _____
 (____ initial cycle in cu. yds.) (____ subsequent cycles in cu. yds.)

Composition of material (percentage sand, silt, clay, rock):
 Provide documentation (i.e., laboratory results or analytical reports) that *dredged* material from on-site areas is free of toxics. If not free of toxics, provide documentation of proper disposal (i.e., bill of lading from commercial supplier or disposal site).

See attached laboratory report.

Please include a dredged material management plan that includes specifics on how the dredged material will be handled and retained to prevent its entry into surface waters or wetlands. If on-site dewatering is proposed, please include plan view and cross-sectional drawings of the dewatering area and associated outfall. All spoils will be directly transferred from the hopper barges into sealed dump trucks surrounded by wire reinforced silt fence.

Will the dredged material be used for any commercial purpose or beneficial use? Yes No
 If yes, please explain:

If this is a maintenance dredging project, what was the date that the dredging was last performed? _____
 Permit number of original permit: _____ (It is important that you attach a copy of the original permit.)

**ENGINEER/SURVEYOR'S INSPECTION STATEMENT
FOR
WATERFRONT CONSTRUCTION/COASTAL PRIMARY SAND DUNE PROJECTS**

REVISED 10-09-03

PROJECT LOCATION: 3201 Lynnhaven Drive

APPLICANT'S NAME: Five2Peers Real Estate Trust, c/o Allan Wall

APPLICANT'S ADDRESS: 3109 Sand Pine Road

Virginia Beach, VA 23451

ENGINEER OF RECORD: Sean E. Green, P.E.

PROFESSIONAL ENGINEER/ SURVEYOR
CERTIFYING PROJECT
CONSTRUCTION: Dredging & Groin Wall

AT THE COMPLETION OF A WATERFRONT CONSTRUCTION/COASTAL PRIMARY SAND DUNE PROJECT IT IS REQUIRED THAT A CERTIFICATION BY THE APPROVING ENGINEER/SURVEYOR BE SUBMITTED, STATING THAT THEY HAVE INSPECTED THE REFERENCED PROJECT SITE AND TO THE BEST OF THEIR KNOWLEDGE, THE WATERFRONT/COASTAL PRIMARY SAND DUNE PROJECT HAS BEEN CONSTRUCTED IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS. SUCH CERTIFICATION SHALL BE SEALED BY THE ENGINEER OR SURVEYOR CERTIFYING THE CONSTRUCTION.

THIS FORM MUST BE COMPLETED AND RETURNED TO THE DEPARTMENT OF PLANNING, WATERFRONT OPERATIONS OFFICE WITH ALL APPLICATIONS FOR WATERFRONT CONSTRUCTION/COASTAL PRIMARY SAND DUNE PROJECTS AT THE TIME OF SUBMITTAL.

Sean E. Green 3-16-22
SIGNATURE OF ENGINEER/SURVEYOR CERTIFYING CONSTRUCTION DATE

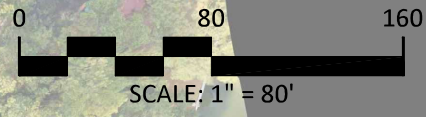
Sean E. Green, P.E.
TYPE OR PRINT NAME OF ENGINEER/SURVEYOR CERTIFYING CONSTRUCTION

Allan Wall 2 MAR 2022
SIGNATURE OF APPLICANT DATE

SIGNATURE OF COASTAL ZONE ADMINISTRATOR DATE

ANY ALTERATION OF THIS FORM OR ITS ENDORSEMENTS WITHOUT THE EXPRESS CONSENT FROM THE ORIGINATOR SHALL INVALIDATE THIS INSTRUMENT.

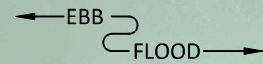
APPLICATION NO. _____



LYNNHAVEN DRIVE

DOLPHIN ROAD

LONG CREEK



APO #1
 NOW OR FORMERLY
 CITY OF VIRGINIA BEACH
 3211 LYNNHAVEN DRIVE
 GPIN: 1489-98-2246

APO #2
 NOW OR FORMERLY
 CHARLES H. HALL
 3124 LYNNHAVEN DRIVE
 GPIN: 1489-98-4319

APO #3
 NOW OR FORMERLY
 MICHAEL S. BRENNAN
 3125 DOLPHIN ROAD
 GPIN: 1489-98-5139

APO #4
 NOW OR FORMERLY
 MARTIN J. JANZEN
 REVOCABLE TRUST
 3121 DOLPHIN ROAD
 GPIN: 1489-98-5038

APO #5
 NOW OR FORMERLY
 DAVID W. RAMSAY
 3117 DOLPHIN ROAD
 GPIN: 1489-97-6969



M.B. 41 PG. 44



Sean E. Green
 2022.03.16 21:31:36 -05'00'

EXISTING CONDITIONS

© 2022 WATERFRONT CONSULTING, INC. ALL RIGHTS RESERVED

PURPOSE: BOATING ACCESS
 DATUM: MLW = 0.0'
 APOS:
 1. CITY OF VIRGINIA BEACH
 2. HALL
 3. BRENNAN
 4. JANZEN R.T.
 5. RAMSAY

WCI WATERFRONT CONSULTING, INC.
 2589 QUALITY COURT, SUITE 323
 VIRGINIA BEACH, VA 23454
 PHONE: (757) 425-8244, MOBILE: (757) 619-7302

ENGINEERING SERVICES PROVIDED BY:
 SEAN E. GREEN, P.E.

PROPOSED: DREDGING
 IN: LONG CREEK
 AT: 3201 LYNNHAVEN DRIVE
 VIRGINIA BEACH, VA 23451
 APPLICATION BY:
 FIVE2PEERS REAL ESTATE TRUST

SHEET: 1 OF 12
 DATE: FEBRUARY 28, 2022

80 160

SCALE: 1" = 80'

SHEET 3

LYNNHAVEN DRIVE

DOLPHIN ROAD

SHEET 4

PROPOSED DREDGE CUT TO -4.5 DEPTH

PROPOSED GROIN WALL

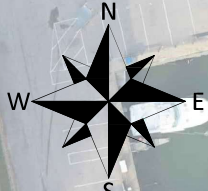
PROPOSED RIPRAP

LONG CREEK

SHEET 5

FBB

FLOOD



M.B. 41 PG. 44



PROPOSED IMPROVEMENTS

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PURPOSE: BOATING ACCESS

DATUM: MLW = 0.0'

APOS:

- 1. CITY OF VIRGINIA BEACH
- 2. HALL
- 3. BRENNAN
- 4. JANZEN R.T.
- 5. RAMSAY



WATERFRONT CONSULTING, INC.

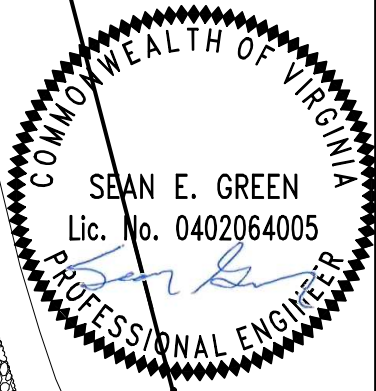
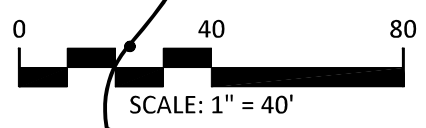
2589 QUALITY COURT, SUITE 323
VIRGINIA BEACH, VA 23454
PHONE: (757) 425-8244, MOBILE: (757) 619-7302

ENGINEERING SERVICES PROVIDED BY:
SEAN E. GREEN, P.E.

PROPOSED: DREDGING
IN: LONG CREEK
AT: 3201 LYNNHAVEN DRIVE
VIRGINIA BEACH, VA 23451
APPLICATION BY:
FIVE2PEERS REAL ESTATE TRUST

SHEET: 2 OF 12
DATE: FEBRUARY 28, 2022

ACCESSWAY = 264 SF
 TOTAL AREA OF DISTURBANCE = 264 SF
 AREA IS APPROXIMATE



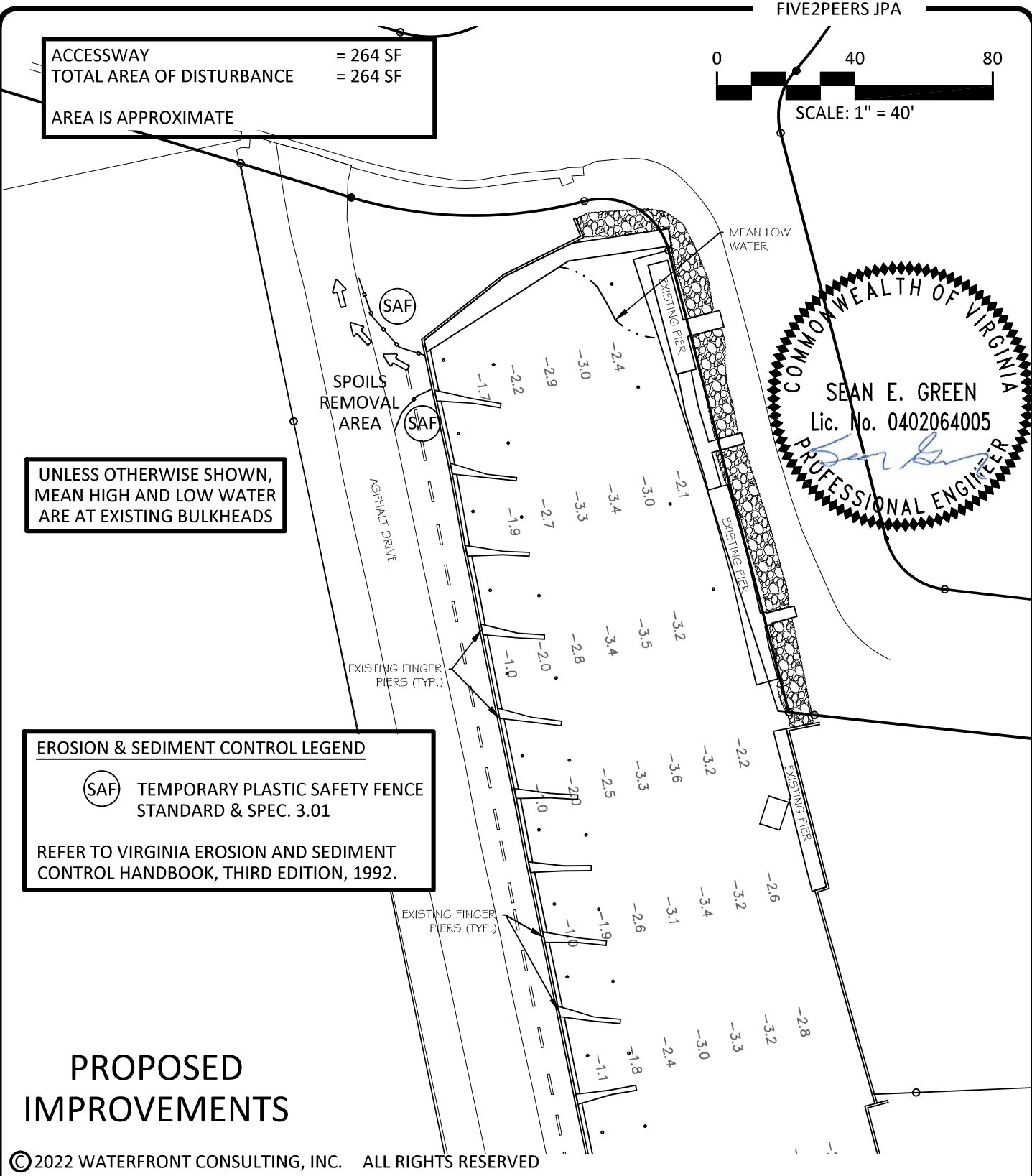
UNLESS OTHERWISE SHOWN,
 MEAN HIGH AND LOW WATER
 ARE AT EXISTING BULKHEADS

EROSION & SEDIMENT CONTROL LEGEND

(SAF) TEMPORARY PLASTIC SAFETY FENCE
 STANDARD & SPEC. 3.01

REFER TO VIRGINIA EROSION AND SEDIMENT
 CONTROL HANDBOOK, THIRD EDITION, 1992.

PROPOSED IMPROVEMENTS



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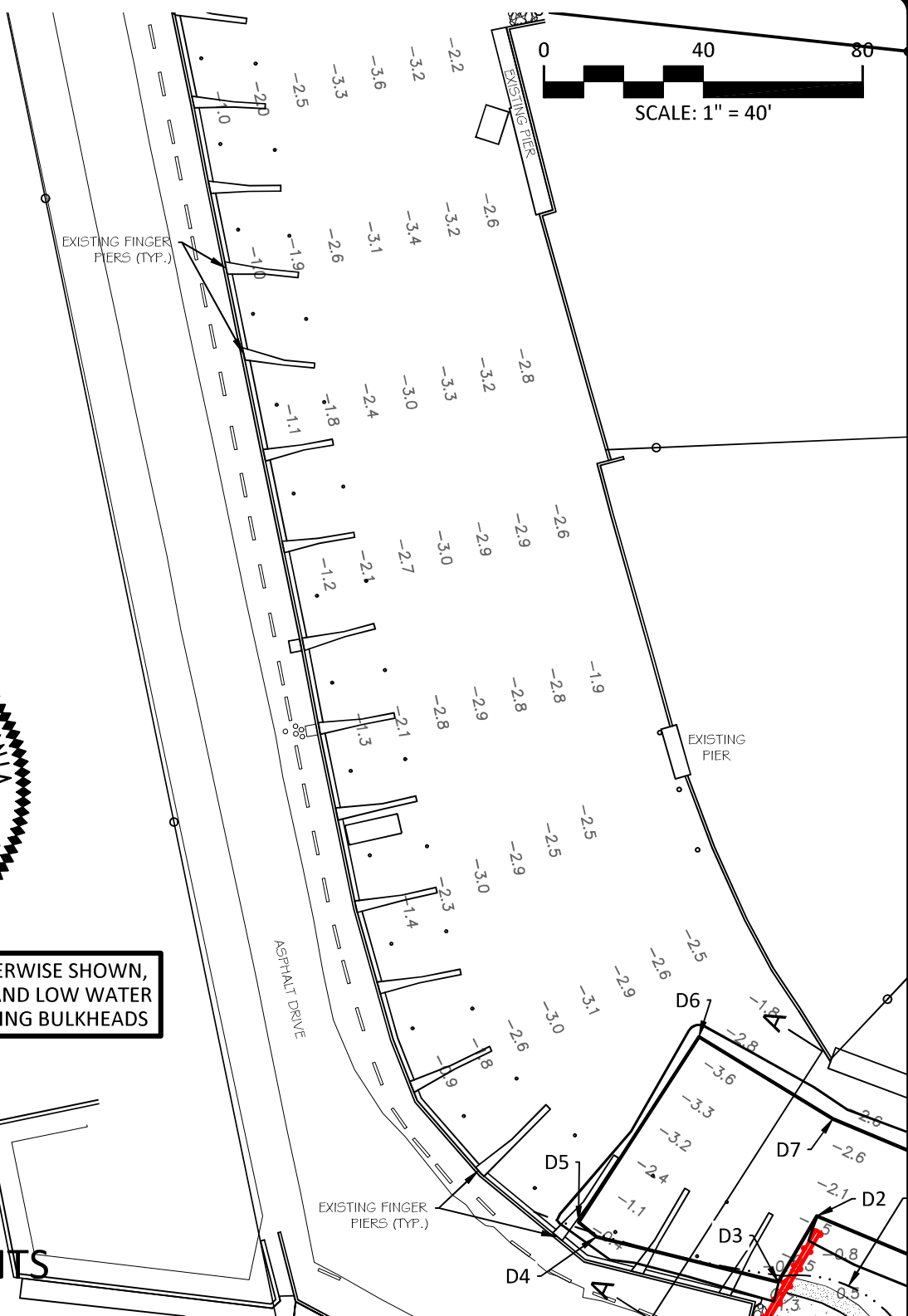
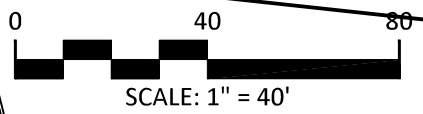
PURPOSE: BOATING ACCESS
 DATUM: MLW = 0.0'
 APOS:
 1. CITY OF VIRGINIA BEACH
 2. HALL
 3. BRENNAN
 4. JANZEN R.T.
 5. RAMSAY

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 APPLICATION BY:
 FIVE2PEERS REAL ESTATE TRUST

SHEET: 3 OF 12
 DATE: FEBRUARY 28, 2022



UNLESS OTHERWISE SHOWN,
MEAN HIGH AND LOW WATER
ARE AT EXISTING BULKHEADS

**PROPOSED
IMPROVEMENTS**

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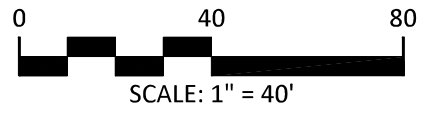
PURPOSE: BOATING ACCESS
DATUM: MLW = 0.0'
APOS:
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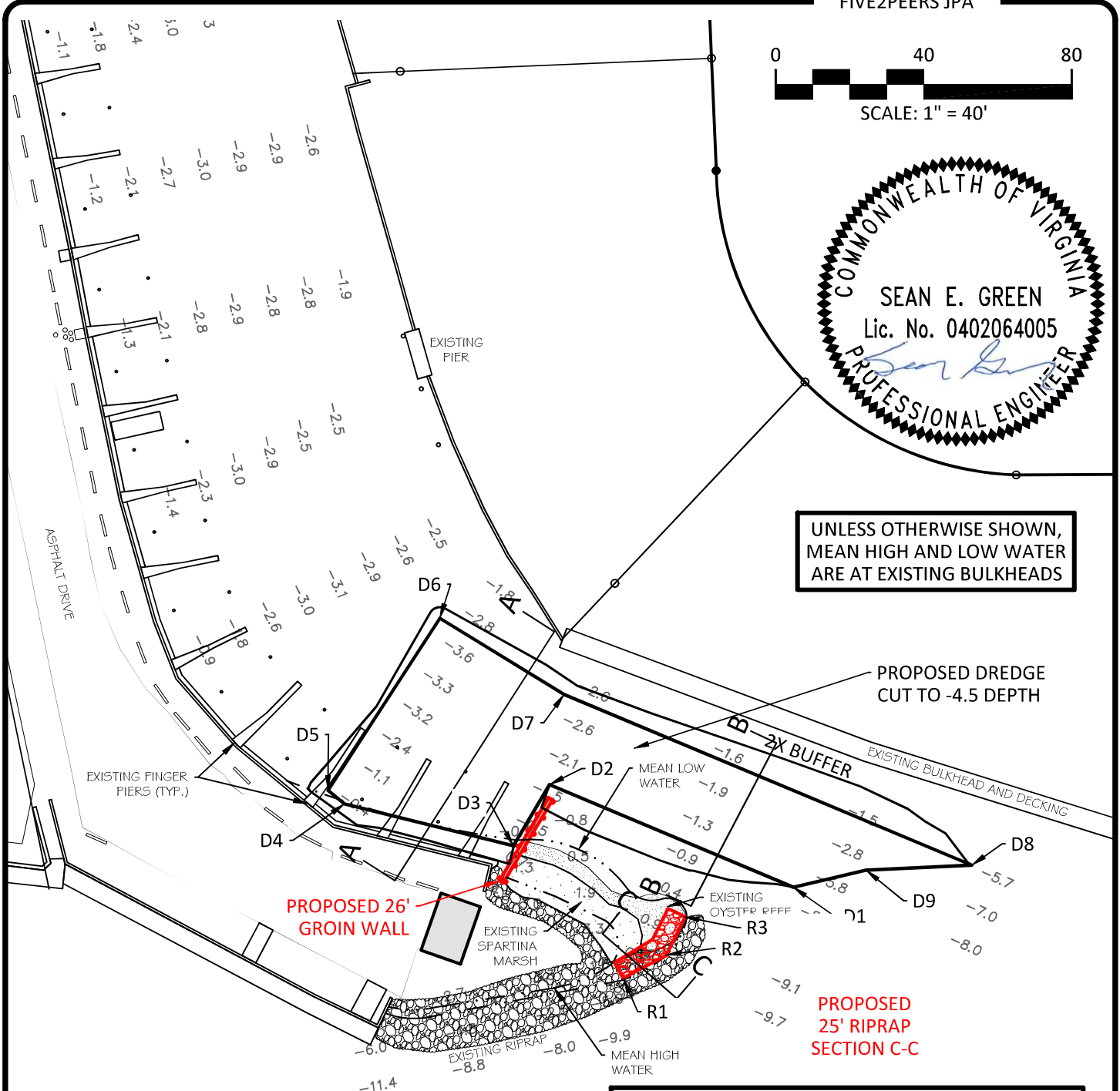
ENGINEERING SERVICES PROVIDED BY:
SEAN E. GREEN, P.E.

PROPOSED: DREDGING
IN: LONG CREEK
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VIRGINIA BEACH, VA 23451
APPLICATION BY:
FIVE2PEERS REAL ESTATE TRUST

SHEET: 4 OF 12
DATE: FEBRUARY 28, 2022



UNLESS OTHERWISE SHOWN,
MEAN HIGH AND LOW WATER
ARE AT EXISTING BULKHEADS



PROPOSED IMPROVEMENTS

ANY AND ALL SHELLFISH IMPACTED BY CONSTRUCTION SHALL BE HARVESTED AND PRESERVED IN THE WATER COLUMN UNTIL CONSTRUCTION IS COMPLETE AND THEN RETURNED TO THE RIPRAP AT THE SAME ELEVATION

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PURPOSE: BOATING ACCESS
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 5. RAMSAY

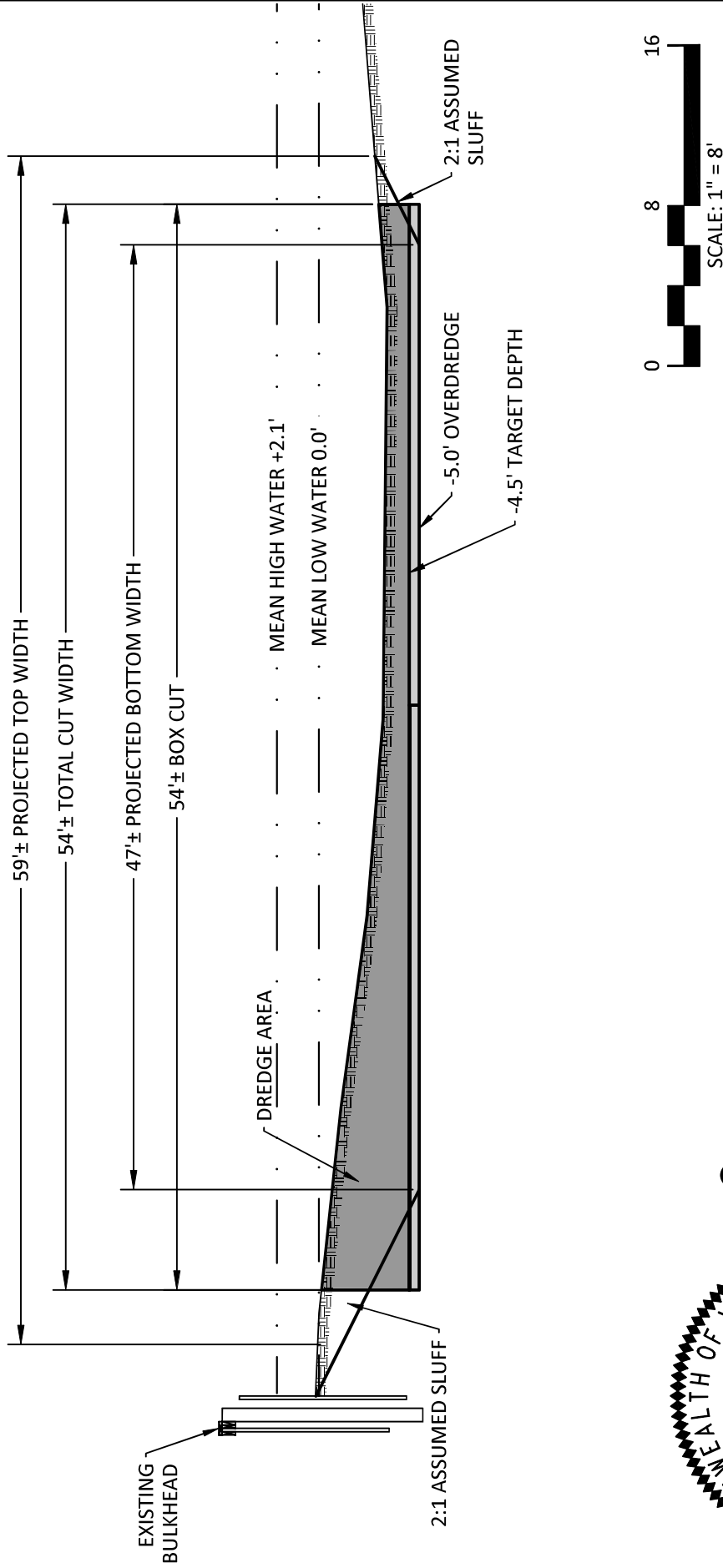
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 PHONE: (757) 425-8244, MOBILE: (757) 619-7302

ENGINEERING SERVICES PROVIDED BY:
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PROPOSED: DREDGING
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 VIRGINIA BEACH, VA 23451
 APPLICATION BY:
 FIVE2PEERS REAL ESTATE TRUST

SHEET: 5 OF 12
 DATE: FEBRUARY 28, 2022

PROPOSED DREDGE CROSS SECTION A-A



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PURPOSE: BOATING ACCESS
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 2. HALL
 3. BRENNAN
 4. JANZEN R.T.
 5. RAMSAY



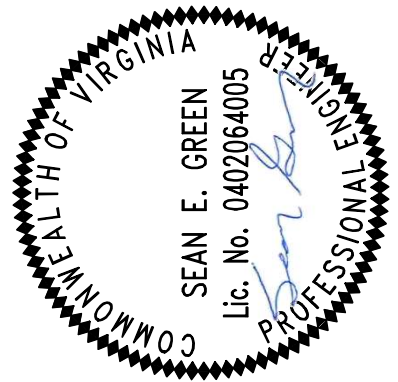
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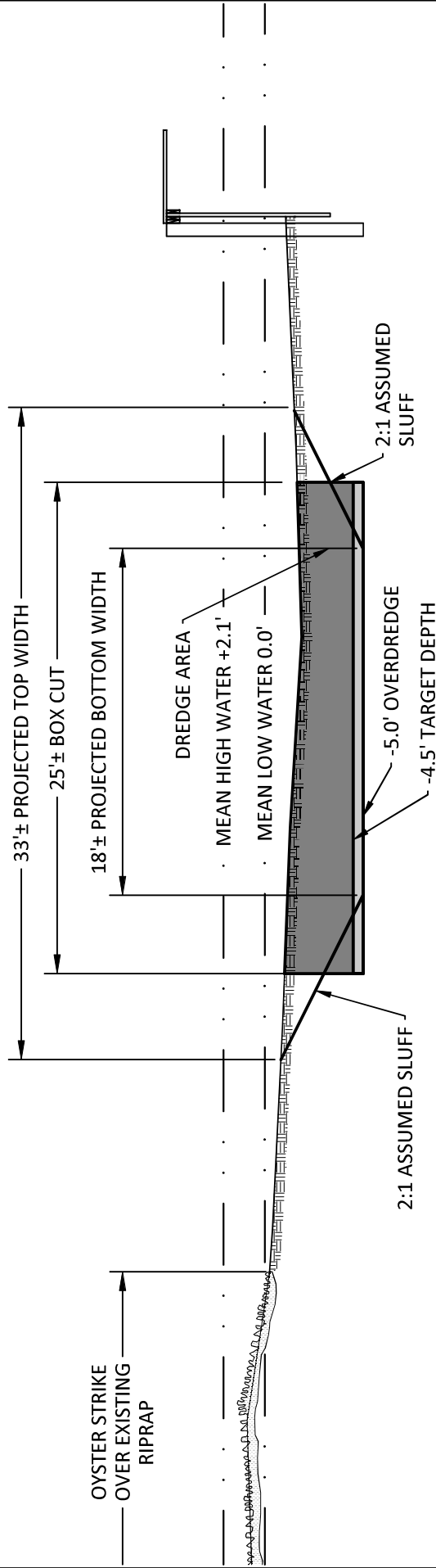
ENGINEERING SERVICES PROVIDED BY:
 SEAN E. GREEN, P.E.

PROPOSED: DREDGING
 IN: LONG CREEK
 AT: 3201 LYNNHAVEN DRIVE
 VIRGINIA BEACH, VA 23451
 APPLICATION BY:
 FIVE2PEERS REAL ESTATE TRUST

SHEET: 6 OF 12
 DATE: FEBRUARY 28, 2022



PROPOSED DREDGE CROSS SECTION B-B



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PURPOSE: BOATING ACCESS
 DATUM: MLW = 0.0'
 APOS:
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 2. HALL
 3. BRENNAN
 4. JANZEN R.T.
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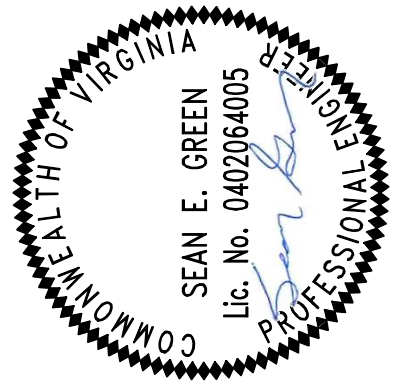
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 PHONE: (757) 425-8244, MOBILE: (757) 619-7302

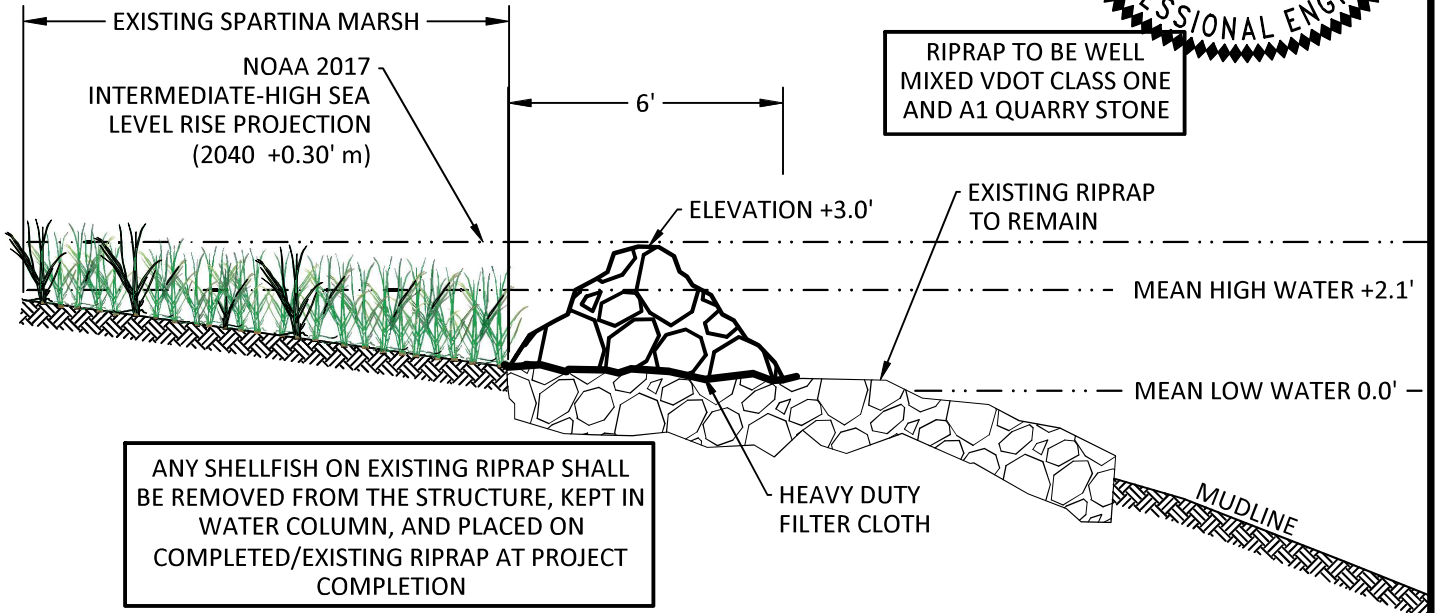
ENGINEERING SERVICES PROVIDED BY:
 SEAN E. GREEN, P.E.

PROPOSED: DREDGING
 IN: LONG CREEK
 AT: 3201 LYNNHAVEN DRIVE
 VIRGINIA BEACH, VA 23451
 APPLICATION BY:
 FIVE2PEERS REAL ESTATE TRUST

SHEET: 7 OF 12
 DATE: FEBRUARY 28, 2022



CROSS SECTION C-C PROPOSED RIPRAP

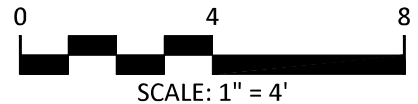


ANY SHELLFISH ON EXISTING RIPRAP SHALL BE REMOVED FROM THE STRUCTURE, KEPT IN WATER COLUMN, AND PLACED ON COMPLETED/EXISTING RIPRAP AT PROJECT COMPLETION

RIPRAP TO BE WELL MIXED VDOT CLASS ONE AND A1 QUARRY STONE

NOTES:

1. RIPRAP LAYOUT IS BASED ON VISUAL ON SITE INSPECTION.
2. NOAA 2017 INTERMEDIATE-HIGH SEA LEVEL RISE PROJECTION SHOWN ABOVE IN ACCORDANCE WITH VIRGINIA MARINE RESOURCES COMMISSION 'TIDAL WETLANDS GUIDELINES' DEVELOPED PURSUANT TO CHAPTER 13 TITLE 28.2, CODE OF VIRGINIA.
3. DRAWINGS ARE FOR PERMIT PURPOSES ONLY, AND DO NOT CONSTITUTE FULL DESIGN DRAWINGS. NO SOIL BORINGS HAVE BEEN TAKEN TO CONFIRM SUBSURFACE SOIL CONDITIONS.
4. LAYOUT IS BASED ON VISUAL ON-SITE INSPECTION. ABNORMAL SITE CONDITIONS NOT READILY APPARENT HAVE NOT BEEN TAKEN INTO ACCOUNT, AND MAY REQUIRE MODIFICATIONS TO THE DESIGN.
5. CONTRACTOR SHALL FIELD VERIFY BOTTOM CONDITIONS TO ASSURE THAT FIRM MATERIAL IS IN PLACE. THE ENGINEER IS TO BE NOTIFIED OF ANY ABNORMAL SOIL CONDITIONS.



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PURPOSE: BOATING ACCESS
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 2. HALL
 3. BRENNAN
 4. JANZEN R.T.
 5. RAMSAY



**WATERFRONT
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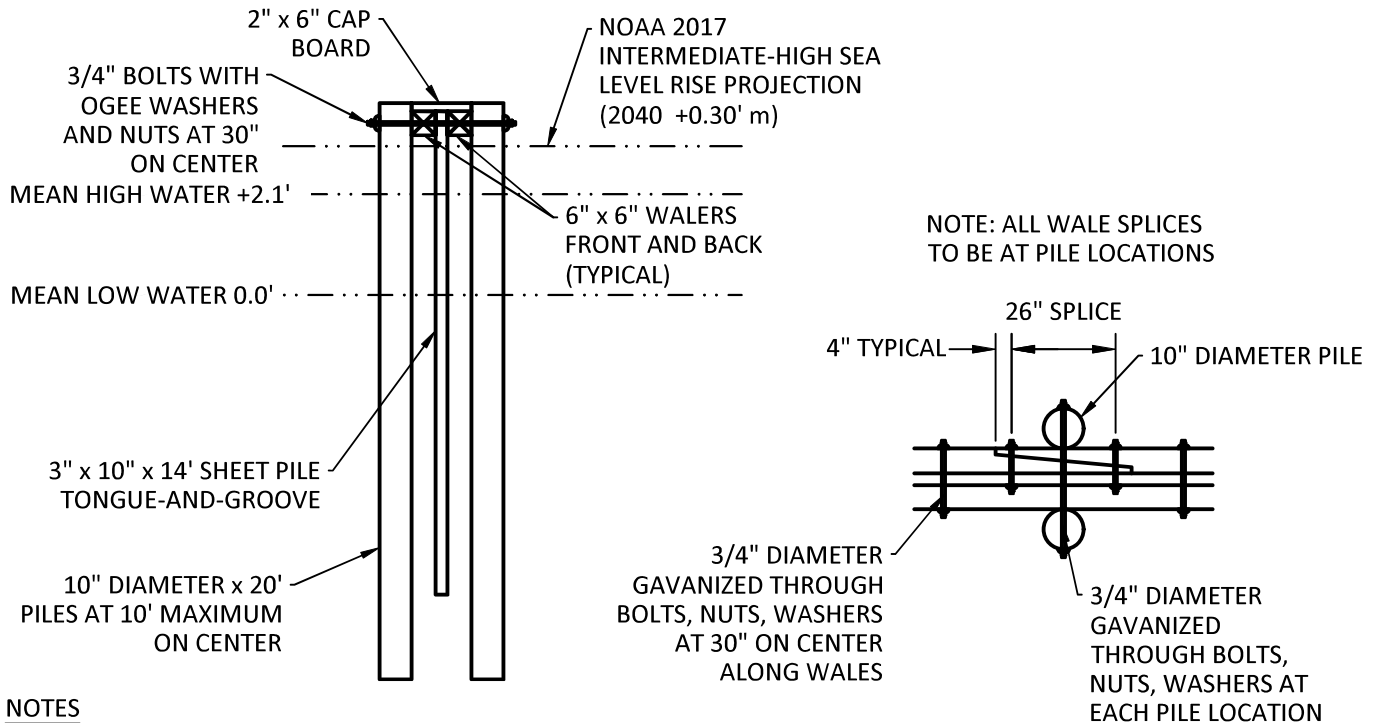
2589 QUALITY COURT, SUITE 323
 VIRGINIA BEACH, VA 23454
 PHONE: (757) 425-8244, MOBILE: (757) 619-7302

ENGINEERING SERVICES PROVIDED BY:
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 IN: LONG CREEK
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 VIRGINIA BEACH, VA 23451
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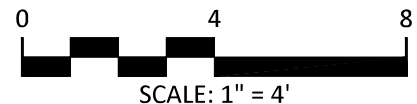
SHEET: 8 OF 12
 DATE: FEBRUARY 28, 2022

PROPOSED GROIN WALL CROSS SECTION AND DETAIL



NOTES

1. PILE LENGTHS NOT SHOWN TO SCALE.
2. ALL TIMBER MATERIAL FOR USE IN THIS MARINE ENVIRONMENT SHALL BE PRESERVATIVE TREATED IN ACCORDANCE WITH THE AWPA
3. ALL HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A-153.
4. DRAWINGS ARE FOR PERMIT PURPOSES ONLY, AND DO NOT CONSTITUTE FULL DESIGN DRAWINGS.
5. NO SOIL BORINGS HAVE BEEN TAKEN TO CONFIRM SUBSURFACE SOIL CONDITIONS (FOR PILE LENGTH DETERMINATION).
6. ABNORMAL SITE CONDITIONS NOT READILY APPARENT HAVE NOT BEEN TAKEN INTO ACCOUNT, AND MAY REQUIRE MODIFICATIONS TO THE MINIMUM PILE LENGTHS SHOWN.
7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY DEPTH OF WATER AND SUBSURFACE CONDITIONS AND TO SELECT PILE LENGTHS ADEQUATE FOR THE STRUCTURE. PILES ARE TO BE DRIVEN TO REFUSAL.
8. NOAA 2017 INTERMEDIATE-HIGH SEA LEVEL RISE PROJECTION SHOWN ABOVE IN ACCORDANCE WITH VIRGINIA MARINE RESOURCES COMMISSION 'TIDAL WETLANDS GUIDELINES' DEVELOPED PURSUANT TO CHAPTER 13 TITLE 28.2, CODE OF VIRGINIA.



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PURPOSE: BOATING ACCESS
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 APPLICATION BY:
 FIVE2PEERS REAL ESTATE TRUST

SHEET: 9 OF 12
 DATE: FEBRUARY 28, 2022

NLAA COMPLIANCE

ITEM	8" PILE	10" PILE	12" PILE		
GROIN WALL		12			

ALL PILES TO BE TIMBER, DRIVEN WITH EXCAVATOR MOUNTED VIBRATORY HAMMER

DREDGE CONTROL POINTS		
Point	Northing	Easting
D1	3497928.78	12189579.80
D2	3497956.52	12189513.85
D3	3497939.98	12189504.08
D4	3497951.28	12189458.48
D5	3497954.97	12189454.00
D6	3498001.49	12189484.21
D7	3497980.90	12189517.80
D8	3497934.83	12189627.92
D9	3497933.34	12189599.44

RIPRAP CONTROL POINTS		
Point	Northing	Easting
R1	3497904.27	12189533.83
R2	3497910.35	12189545.36
R3	3497920.76	12189550.52

(SPCZ) VA STATE PLANE COORDINATE SYSTEM



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PURPOSE: BOATING ACCESS
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 5. RAMSAY



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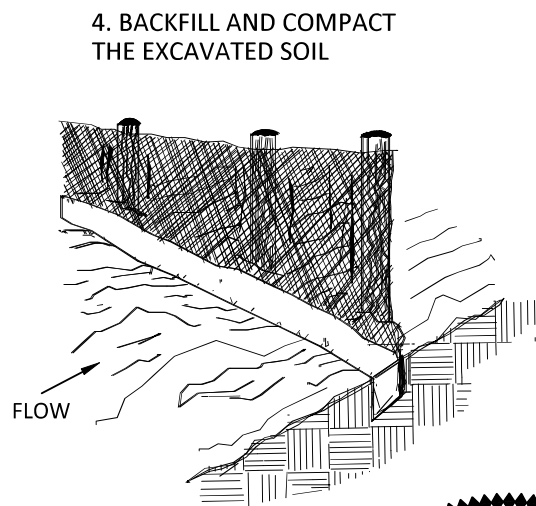
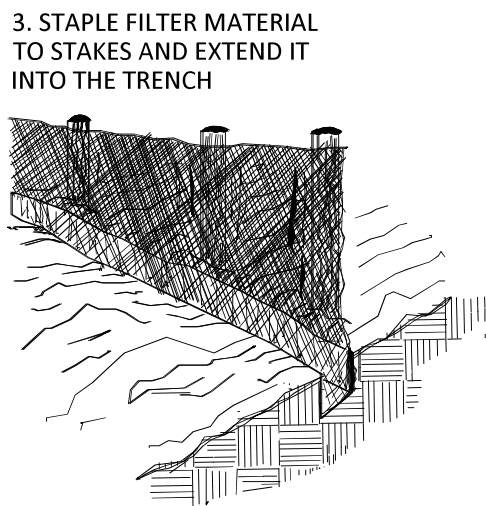
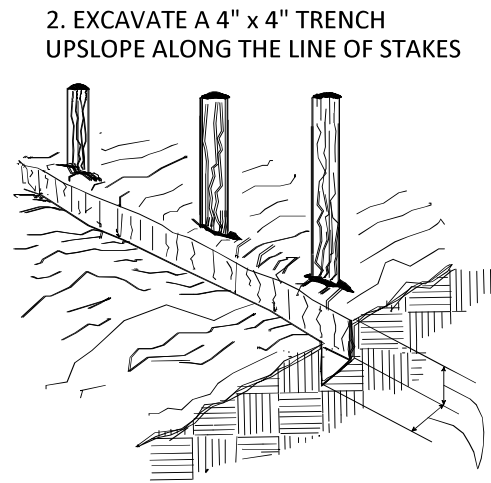
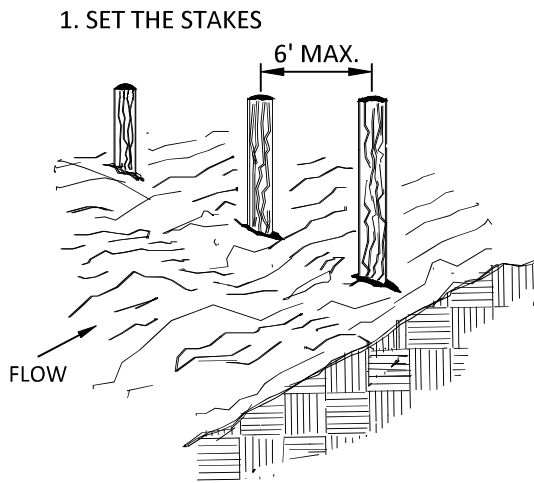
2589 QUALITY COURT, SUITE 323
 VIRGINIA BEACH, VA 23454
 PHONE: (757) 425-8244, MOBILE: (757) 619-7302

ENGINEERING SERVICES PROVIDED BY:
 SEAN E. GREEN, P.E.

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 APPLICATION BY:
 FIVE2PEERS REAL ESTATE TRUST

SHEET: 10 OF 12
 DATE: FEBRUARY 28, 2022

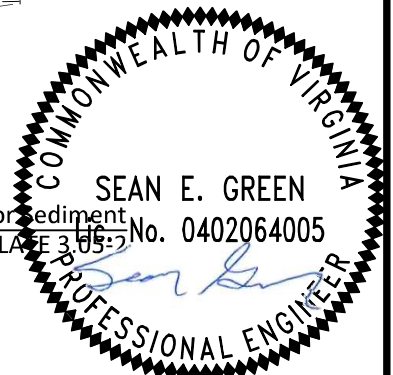
CONSTRUCTION OF A SILT FENCE (WITHOUT WIRE SUPPORT)



SHEET FLOW INSTALLATION (PERSPECTIVE VIEW)

SOURCE: Adapted from Installation of Straw and Fabric Filter Barriers for Sediment Control, VA. DSWC Sherwood and Wyant

PLATE 3.05-2



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PURPOSE: BOATING ACCESS
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 3. BRENNAN
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 5. RAMSAY

WCI WATERFRONT CONSULTING, INC.
 2589 QUALITY COURT, SUITE 323
 VIRGINIA BEACH, VA 23454
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ENGINEERING SERVICES PROVIDED BY:
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 VIRGINIA BEACH, VA 23451
 APPLICATION BY:
 FIVE2PEERS REAL ESTATE TRUST

SHEET: 11 OF 12
 DATE: FEBRUARY 28, 2022

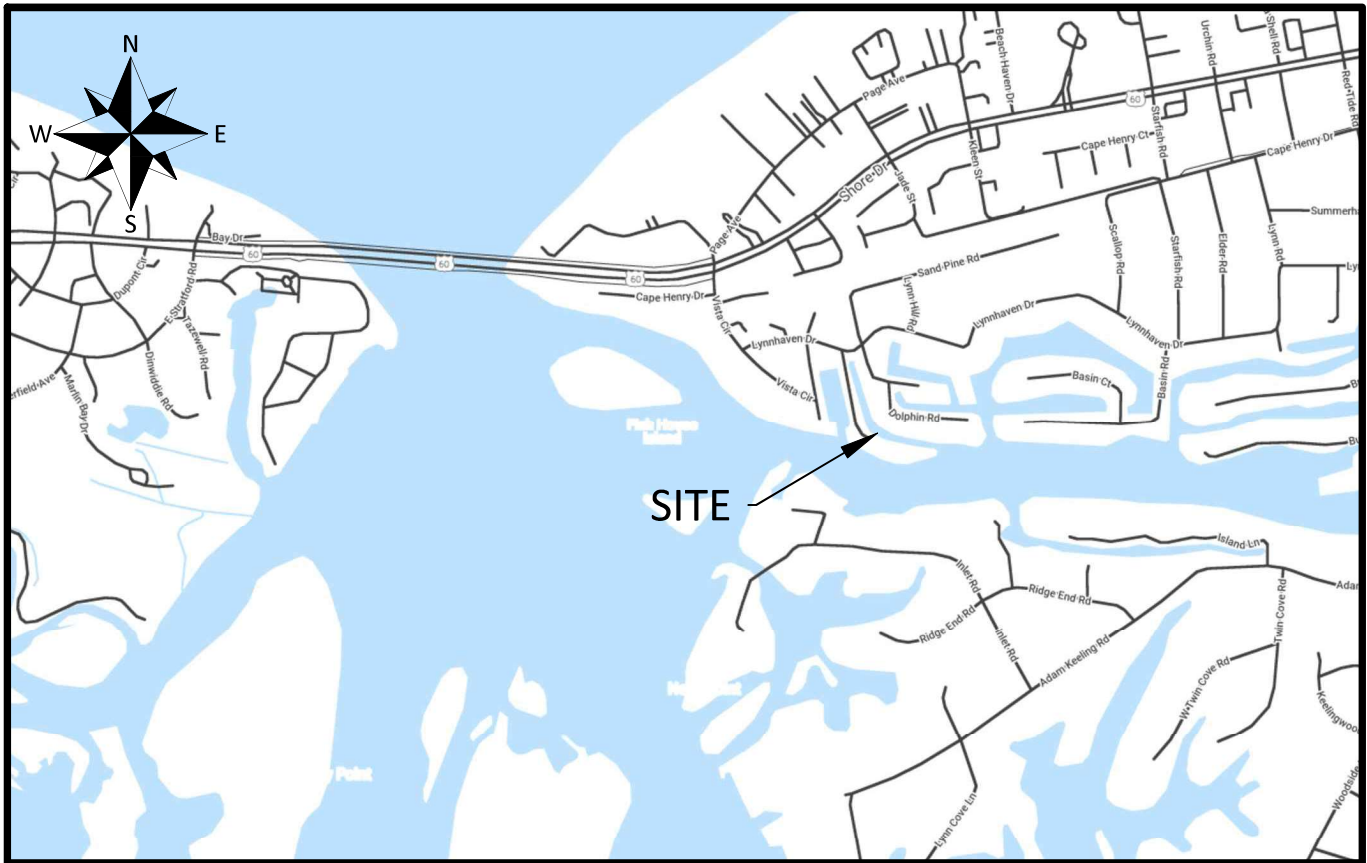
SITE INFORMATION

LEGAL DESCRIPTION: LYNNHAVEN COLONY SECTION 3 MARINA PARCEL
 REFERENCE: MAP BOOK 41, PAGE(S) 44, ON FILE AT THE CLERK'S OFFICE, VIRGINIA BEACH, VA
 GPIN: 1489-97-6836
 ZONING: R-10



SEQUENCE OF EVENTS

1. OBTAIN ALL NECESSARY PERMITS.
2. SCHEDULE ON-SITE PRE-CONSTRUCTION MEETING WITH COASTAL ZONE INSPECTOR.
3. MOBILIZE EQUIPMENT TO SITE, MARK ACCESS WAY WITH SAFETY FENCE.
4. CONSTRUCT IMPROVEMENTS.
5. DEMOBILIZE EQUIPMENT FROM SITE WHILE ADDING TOP SOIL AND SEED TO ALL AREAS DENUDED / DAMAGED BY CONSTRUCTION OPERATIONS.



VICINITY MAP

SCALE: 1" = 1,000'

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PURPOSE: BOATING ACCESS
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ENGINEERING SERVICES PROVIDED BY:
 SEAN E. GREEN, P.E.

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 IN: LONG CREEK
 AT: 3201 LYNNHAVEN DRIVE
 VIRGINIA BEACH, VA 23451
 APPLICATION BY:
 FIVE2PEERS REAL ESTATE TRUST

SHEET: 12 OF 12
 DATE: FEBRUARY 28, 2022



WATERFRONT CONSULTING, INC.
"Specializing in Permit Processing"

February 28, 2022

Charles H. Hall
3124 Lynnhaven Drive
Virginia Beach, VA 23451

**RE: Proposed Dredging & Groin Wall
Located at 3201 Lynnhaven Drive, Virginia Beach, VA 23451**

Dear Charles H. Hall

This letter is to notify you that your neighbor(s), Five2Peers Real Estate Trust, c/o Allan Wall have submitted a Joint Permit Application for waterfront improvements as shown on the enclosed drawings. Please review the drawings and should you have any questions or concerns, please do not hesitate to call.

If you do not object to the project or have no comment, we would ask that you return the enclosed Adjacent Property Owners Acknowledgement form via email to bob@waterfrontconsulting.net or the USPS to Waterfront Consulting, Inc.

If you object to the project, you may still return the Adjacent Property Owners Acknowledgement form to Waterfront Consulting, Inc. or by USPS to:

Virginia Marine Resources Commission
Habitat Management Division
380 Fenwick Road, Bldg. 96
Fort Monroe, VA 23651

We thank you in advance for your timely response and please feel free to call me with any questions. If we do not receive a response within 15 days from the date of this letter, it will be assumed that you have no objection to the project.

Kind Regards,

Robert E. Simon

Robert E. Simon, Vice President

CC: Five2Peers Real Estate Trust, c/o Allan Wall , Applicant

Part 2 – Signatures (continued)

ADJACENT PROPERTY OWNER'S ACKNOWLEDGEMENT FORM

I (we), Charles H. Hall, own land next to (across the water
(Print adjacent/nearby property owner's name)

from/on the same cove as) the land of Five2Peers Real Estate Trust, c/o Allan Wall.
(Print applicant's name(s))

I have reviewed the applicant's project drawings dated February 16, 2022
(Date)

to be submitted for all necessary federal, state and local permits.

I HAVE NO COMMENT ABOUT THE PROJECT.

I DO NOT OBJECT TO THE PROJECT.

I OBJECT TO THE PROJECT.

The applicant has agreed to contact me for additional comments if the proposal changes prior to construction of the project.

(Before signing this form, be sure you have checked the appropriate option above).

Adjacent/nearby property owner's signature(s)

Date

Note: If you object to the proposal, the reason(s) you oppose the project must be submitted in writing to VMRC. An objection will not necessarily result in denial of the project; however, valid complaints will be given full consideration during the permit review process.



WATERFRONT CONSULTING, INC.
"Specializing in Permit Processing"

February 28, 2022

Michael S. Brennan
3125 Dolphin Road
Virginia Beach, VA 23451

RE: Proposed Dredging & Groin Wall
Located at 3201 Lynnhaven Drive, Virginia Beach, VA 23451

Dear Michael S. Brennan

This letter is to notify you that your neighbor(s), Five2Peers Real Estate Trust, c/o Allan Wall have submitted a Joint Permit Application for waterfront improvements as shown on the enclosed drawings. Please review the drawings and should you have any questions or concerns, please do not hesitate to call.

If you do not object to the project or have no comment, we would ask that you return the enclosed Adjacent Property Owners Acknowledgement form via email to bob@waterfrontconsulting.net or the USPS to Waterfront Consulting, Inc.

If you object to the project, you may still return the Adjacent Property Owners Acknowledgement form to Waterfront Consulting, Inc. or by USPS to:

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Fort Monroe, VA 23651

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Kind Regards,

Robert E. Simon

Robert E. Simon, Vice President

CC: Five2Peers Real Estate Trust, c/o Allan Wall , Applicant

Part 2 – Signatures (continued)

ADJACENT PROPERTY OWNER'S ACKNOWLEDGEMENT FORM

I (we), Michael S. Brennan, own land next to (across the water
(Print adjacent/nearby property owner's name)

from/on the same cove as) the land of Five2Peers Real Estate Trust, c/o Allan Wall.
(Print applicant's name(s))

I have reviewed the applicant's project drawings dated February 16, 2022
(Date)

to be submitted for all necessary federal, state and local permits.

I HAVE NO COMMENT ABOUT THE PROJECT.

I DO NOT OBJECT TO THE PROJECT.

I OBJECT TO THE PROJECT.

The applicant has agreed to contact me for additional comments if the proposal changes prior to construction of the project.

(Before signing this form be sure you have checked the appropriate option above).

Adjacent/nearby property owner's signature(s)

Date

Note: If you object to the proposal, the reason(s) you oppose the project must be submitted in writing to VMRC. An objection will not necessarily result in denial of the project; however, valid complaints will be given full consideration during the permit review process.



WATERFRONT CONSULTING, INC.
"Specializing in Permit Processing"

February 28, 2022

Martin J. Janzen
3121 Dolphin Road
Virginia Beach, VA 23451

**RE: Proposed Dredging & Groin Wall
Located at 3201 Lynnhaven Drive, Virginia Beach, VA 23451**

Dear Martin J. Janzen

This letter is to notify you that your neighbor(s), Five2Peers Real Estate Trust, c/o Allan Wall have submitted a Joint Permit Application for waterfront improvements as shown on the enclosed drawings. Please review the drawings and should you have any questions or concerns, please do not hesitate to call.

If you do not object to the project or have no comment, we would ask that you return the enclosed Adjacent Property Owners Acknowledgement form via email to bob@waterfrontconsulting.net or the USPS to Waterfront Consulting, Inc.

If you object to the project, you may still return the Adjacent Property Owners Acknowledgement form to Waterfront Consulting, Inc. or by USPS to:

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380 Fenwick Road, Bldg. 96
Fort Monroe, VA 23651

We thank you in advance for your timely response and please feel free to call me with any questions. If we do not receive a response within 15 days from the date of this letter, it will be assumed that you have no objection to the project.

Kind Regards,

Robert E. Simon

Robert E. Simon, Vice President

CC: Five2Peers Real Estate Trust, c/o Allan Wall , Applicant

Part 2 – Signatures (continued)

ADJACENT PROPERTY OWNER'S ACKNOWLEDGEMENT FORM

I (we), Martin J. Janzen, own land next to (across the water
(Print adjacent/nearby property owner's name)

from/on the same cove as) the land of Five2Peers Real Estate Trust, c/o Allan Wall.
(Print applicant's name(s))

I have reviewed the applicant's project drawings dated February 16, 2022
(Date)

to be submitted for all necessary federal, state and local permits.

I HAVE NO COMMENT ABOUT THE PROJECT.

I DO NOT OBJECT TO THE PROJECT.

I OBJECT TO THE PROJECT.

The applicant has agreed to contact me for additional comments if the proposal changes prior to construction of the project.

(Before signing this form, be sure you have checked the appropriate option above).

Adjacent/nearby property owner's signature(s)

Date

Note: If you object to the proposal, the reason(s) you oppose the project must be submitted in writing to VMRC. An objection will not necessarily result in denial of the project; however, valid complaints will be given full consideration during the permit review process.



WATERFRONT CONSULTING, INC.
"Specializing in Permit Processing"

February 28, 2022

David W. Ramsay
3117 Dolphin Road
Virginia Beach, VA 23451

**RE: Proposed Dredging & Groin Wall
Located at 3201 Lynnhaven Drive, Virginia Beach, VA 23451**

Dear David W. Ramsay

This letter is to notify you that your neighbor(s), Five2Peers Real Estate Trust, c/o Allan Wall have submitted a Joint Permit Application for waterfront improvements as shown on the enclosed drawings. Please review the drawings and should you have any questions or concerns, please do not hesitate to call.

If you do not object to the project or have no comment, we would ask that you return the enclosed Adjacent Property Owners Acknowledgement form via email to bob@waterfrontconsulting.net or the USPS to Waterfront Consulting, Inc.

If you object to the project, you may still return the Adjacent Property Owners Acknowledgement form to Waterfront Consulting, Inc. or by USPS to:

Virginia Marine Resources Commission
Habitat Management Division
380 Fenwick Road, Bldg. 96
Fort Monroe, VA 23651

We thank you in advance for your timely response and please feel free to call me with any questions. If we do not receive a response within 15 days from the date of this letter, it will be assumed that you have no objection to the project.

Kind Regards,

Robert E. Simon

Robert E. Simon, Vice President

CC: Five2Peers Real Estate Trust, c/o Allan Wall , Applicant

Part 2 – Signatures (continued)

ADJACENT PROPERTY OWNER'S ACKNOWLEDGEMENT FORM

I (we), David W. Ramsay, own land next to (across the water
(Print adjacent/nearby property owner's name)

from/on the same cove as) the land of Five2Peers Real Estate Trust, c/o Allan Wall.
(Print applicant's name(s))

I have reviewed the applicant's project drawings dated February 16, 2022
(Date)

to be submitted for all necessary federal, state and local permits.

I HAVE NO COMMENT ABOUT THE PROJECT.

I DO NOT OBJECT TO THE PROJECT.

I OBJECT TO THE PROJECT.

The applicant has agreed to contact me for additional comments if the proposal changes prior to construction of the project.

(Before signing this form, be sure you have checked the appropriate option above).

Adjacent/nearby property owner's signature(s)

Date

Note: If you object to the proposal, the reason(s) you oppose the project must be submitted in writing to VMRC. An objection will not necessarily result in denial of the project; however, valid complaints will be given full consideration during the permit review process.

8. 2022-WTRA-00062

Haversham Close, LLC; Robert & Renee Broermann; Barbara J. & Allen M. Larar; Jeanne P. West Trust & Maynard D. West Trust
[Applicants & Owners]

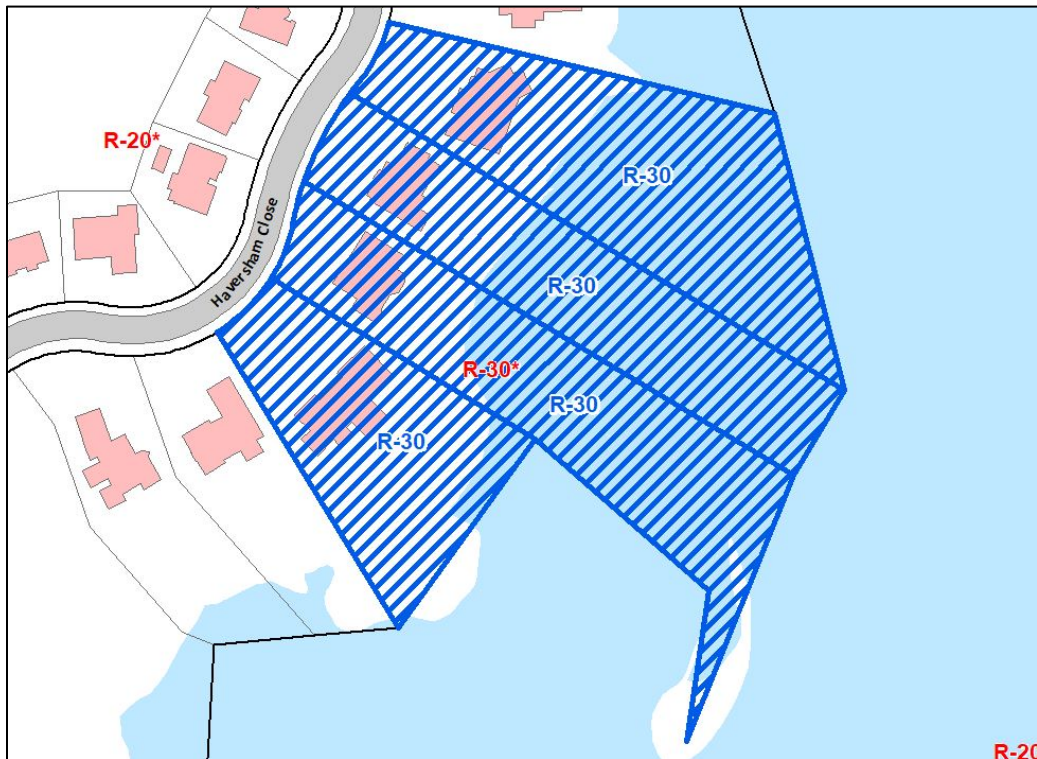
To dredge involving wetlands

2385, 2389, 2393, and 2397 Haversham Close
(GPINs 2409-14-8863, 2409-14-7744, 2409-14-6639, 2409-14-5577)

Waterway – Dey Cove

Subdivision – Broad Bay Point Greens

City Council District: District 5, formerly Lynnhaven



Disclosure Statement



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Applicant Disclosure

Applicant Name Haversham Close, LLC

Does the applicant have a representative? **Yes** **No**

- If **yes**, list the name of the representative.

Waterfront Consulting, Inc, Robert E Simon and GPC, Billy Garrington

Is the applicant a corporation, partnership, firm, business, trust or an unincorporated business? **Yes** **No**

- If **yes**, list the names of all officers, directors, members, trustees, etc. below. (Attach a list if necessary)

Stephen B Ballard, Managing Member

- If **yes**, list the businesses that have a parent-subsiary¹ or affiliated business entity² relationship with the applicant. (Attach a list if necessary)

N/A

¹ "Parent-subsiary relationship" means "a relationship that exists when one corporation directly or indirectly owns shares possessing more than 50 percent of the voting power of another corporation." See State and Local Government Conflict of Interests Act, VA. Code § 2.2-3101.

² "Affiliated business entity relationship" means "a relationship, other than parent-subsiary relationship, that exists when (i) one business entity has a controlling ownership interest in the other business entity, (ii) a controlling owner in one entity is also a controlling owner in the other entity, or (iii) there is shared management or control between the business entities. Factors that should be considered in determining the existence of an affiliated business entity relationship include that the same person or substantially the same person own or manage the two entities; there are common or commingled funds or assets; the business entities share the use of the same offices or employees or otherwise share activities, resources or personnel on a regular basis; or there is otherwise a close working relationship between the entities." See State and Local Government Conflict of Interests Act, Va. Code § 2.2-3101.

Disclosure Statement



Known Interest by Public Official or Employee

Does an **official or employee of the City of Virginia Beach** have an interest in the subject land or any proposed development contingent on the subject public action? **Yes** **No**

- If **yes**, what is the name of the official or employee and what is the nature of the interest?
-

Applicant Services Disclosure

1. Does the applicant have **any existing financing (mortgage, deeds of trust, cross-collateralization, etc) or are they considering any financing** in connection with the subject of the application or any business operating or to be operated on the property?

Yes **No**

- If **yes**, identify the financial institutions.
-

2. Does the applicant have a **real estate broker/agent/realtor** for current and anticipated future sales of the subject property?

Yes **No**

- If **yes**, identify the real estate broker/realtor.
-

3. Does the applicant have services for **accounting and/or preparation of tax returns** provided in connection with the subject of the application or any business operating or to be operated on the property? **Yes** **No**

- If **yes**, identify the firm or individual providing the service.
-

4. Does the applicant have services from an **architect/landscape architect/land planner** provided in connection with the subject of the application or any business operating or to be operated on the property? **Yes** **No**

- If **yes**, identify the firm or individual providing the service.

Billy Almond, WPL

5. Is there any other **pending or proposed purchaser** of the subject property? **Yes** **No**

- If **yes**, identify the purchaser and purchaser's service providers.
-

Disclosure Statement



6. Does the applicant have a **construction contractor** in connection with the subject of the application or any business operating or to be operated on the property? **Yes** **No**

- If **yes**, identify the construction contractor.

Salmons Dredging, bulkhead, pier and boat house out for bid.

7. Does the applicant have an **engineer/surveyor/agent** in connection with the subject of the application or any business operating or to be operated on the property? **Yes** **No**

- If **yes**, identify the engineer/surveyor/agent.

Waterfront Consulting, Inc, GPC, Chesapeake Bay Site Solutions, Carter Sinclair

8. Is the applicant receiving **legal services** in connection with the subject of the application or any business operating or to be operated on the property? **Yes** **No**

- If **yes**, identify the name of the attorney or firm providing legal services.

Applicant Signature

I certify that all of the information contained in this Disclosure Statement Form is complete, true, and accurate. I understand that, upon receipt of notification that the application has been scheduled for public hearing, **I am responsible for updating the information provided herein two weeks prior to the meeting of Planning Commission, City Council, VBDA, CBPA, Wetlands Board or any public body or committee in connection with this application.**

Applicant Signature

Haversham Close, LLC by: Stephen B Ballard, Managing Member

Print Name and Title

2/1/2022

Date

Is the applicant also the owner of the subject property? **Yes** **No**

- If **yes**, you do not need to fill out the owner disclosure statement.

FOR CITY USE ONLY/ All disclosures must be updated two (2) weeks prior to any Planning Commission and City Council meeting that pertains to the applications

<input type="checkbox"/>	No changes as of	Date	Signature	
			Print Name	

Disclosure Statement



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Applicant Disclosure

Applicant Name Robert A. and Renee E. Broermann

Does the applicant have a representative? **Yes** **No**

- If **yes**, list the name of the representative.

Waterfront Consulting Inc, Robert E Simon

Is the applicant a corporation, partnership, firm, business, trust or an unincorporated business? **Yes** **No**

- If **yes**, list the names of all officers, directors, members, trustees, etc. below. (Attach a list if necessary)

- If **yes**, list the businesses that have a parent-subsiary¹ or affiliated business entity² relationship with the applicant. (Attach a list if necessary)

¹ "Parent-subsiary relationship" means "a relationship that exists when one corporation directly or indirectly owns shares possessing more than 50 percent of the voting power of another corporation." See State and Local Government Conflict of Interests Act, VA. Code § 2.2-3101.

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Disclosure Statement



Known Interest by Public Official or Employee

Does an **official or employee of the City of Virginia Beach** have an interest in the subject land or any proposed development contingent on the subject public action? **Yes** **No**

- If **yes**, what is the name of the official or employee and what is the nature of the interest?
-

Applicant Services Disclosure

1. Does the applicant have **any existing financing (mortgage, deeds of trust, cross-collateralization, etc) or are they considering any financing** in connection with the subject of the application or any business operating or to be operated on the property?

Yes **No**

- If **yes**, identify the financial institutions.
-

2. Does the applicant have a **real estate broker/agent/realtor** for current and anticipated future sales of the subject property?

Yes **No**

- If **yes**, identify the real estate broker/realtor.
-

3. Does the applicant have services for **accounting and/or preparation of tax returns** provided in connection with the subject of the application or any business operating or to be operated on the property? **Yes** **No**

- If **yes**, identify the firm or individual providing the service.
-

4. Does the applicant have services from an **architect/landscape architect/land planner** provided in connection with the subject of the application or any business operating or to be operated on the property? **Yes** **No**

- If **yes**, identify the firm or individual providing the service.
-

5. Is there any other **pending or proposed purchaser** of the subject property? **Yes** **No**

- If **yes**, identify the purchaser and purchaser's service providers.
-

Disclosure Statement



6. Does the applicant have a **construction contractor** in connection with the subject of the application or any business operating or to be operated on the property? Yes No

- If **yes**, identify the construction contractor.

Project out for Bid

7. Does the applicant have an **engineer/surveyor/agent** in connection with the subject of the application or any business operating or to be operated on the property? Yes No

- If **yes**, identify the engineer/surveyor/agent.

Waterfront Consulting Inc, GPC, Chesapeake Bay Site Solutions, Carter Sinclair

8. Is the applicant receiving **legal services** in connection with the subject of the application or any business operating or to be operated on the property? Yes No

- If **yes**, identify the name of the attorney or firm providing legal services.

Applicant Signature

I certify that all of the information contained in this Disclosure Statement Form is complete, true, and accurate. I understand that, upon receipt of notification that the application has been scheduled for public hearing, I am responsible for updating the information provided herein two weeks prior to the meeting of Planning Commission, City Council, VBDA, CBPA, Wetlands Board or any public body or committee in connection with this application.

[Handwritten Signature]

Applicant Signature

Robert A. + Renee E. Broermann

Print Name and Title

Feb 3, 2022

Date

Is the applicant also the owner of the subject property? Yes No

- If **yes**, you do not need to fill out the owner disclosure statement.

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<input type="checkbox"/>	No changes as of	Date	Signature	
			Print Name	

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Applicant Disclosure

Applicant Name Barbara J. and Allen M. Larar

Does the applicant have a representative? Yes No

- If yes, list the name of the representative.

Waterfront Consulting Inc, Robert E Simon

Is the applicant a corporation, partnership, firm, business, trust or an unincorporated business? Yes No

- If yes, list the names of all officers, directors, members, trustees, etc. below. (Attach a list if necessary)

- If yes, list the businesses that have a parent-subsiary¹ or affiliated business entity² relationship with the applicant. (Attach a list if necessary)

¹ "Parent-subsiary relationship" means "a relationship that exists when one corporation directly or indirectly owns shares possessing more than 50 percent of the voting power of another corporation." See State and Local Government Conflict of Interests Act, VA. Code § 2.2-3101.

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Disclosure Statement



Known Interest by Public Official or Employee

Does an **official or employee of the City of Virginia Beach** have an interest in the subject land or any proposed development contingent on the subject public action? Yes No

- If **yes**, what is the name of the official or employee and what is the nature of the interest?
-

Applicant Services Disclosure

1. Does the applicant have **any existing financing (mortgage, deeds of trust, cross-collateralization, etc) or are they considering any financing** in connection with the subject of the application or any business operating or to be operated on the property?

Yes No

- If **yes**, identify the financial institutions.
-

2. Does the applicant have a **real estate broker/agent/realtor** for current and anticipated future sales of the subject property?

Yes No

- If **yes**, identify the real estate broker/realtor.
-

3. Does the applicant have services for **accounting and/or preparation of tax returns** provided in connection with the subject of the application or any business operating or to be operated on the property? Yes No

- If **yes**, identify the firm or individual providing the service.
-

4. Does the applicant have services from an **architect/landscape architect/land planner** provided in connection with the subject of the application or any business operating or to be operated on the property? Yes No

- If **yes**, identify the firm or individual providing the service.
-

5. Is there any other **pending or proposed purchaser** of the subject property? Yes No

- If **yes**, identify the purchaser and purchaser's service providers.
-

Disclosure Statement



6. Does the applicant have a **construction contractor** in connection with the subject of the application or any business operating or to be operated on the property? **Yes** **No**

- If **yes**, identify the construction contractor.

Project out for Bid

7. Does the applicant have an **engineer/surveyor/agent** in connection with the subject of the application or any business operating or to be operated on the property? **Yes** **No**

- If **yes**, identify the engineer/surveyor/agent.

Waterfront Consulting Inc, GPC, Chesapeake Bay Site Solutions, Carter Sinclair

8. Is the applicant receiving **legal services** in connection with the subject of the application or any business operating or to be operated on the property? **Yes** **No**

- If **yes**, identify the name of the attorney or firm providing legal services.

Applicant Signature

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Applicant Signature

Allen Luras

Print Name and Title

2/2/22

Date

Is the applicant also the owner of the subject property? **Yes** **No**

- If **yes**, you do not need to fill out the owner disclosure statement.

FOR CITY USE ONLY/ All disclosures must be updated two (2) weeks prior to any Planning Commission and City Council meeting that pertains to the applications

<input type="checkbox"/>	No changes as of	Date	Signature
			Print Name

Disclosure Statement



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Applicant Disclosure

Applicant Name Jeanne P. & Maynard D. West Declaration of Trust

Does the applicant have a representative? **Yes** **No**

- If **yes**, list the name of the representative.

Waterfront Consulting Inc, Robert E Simon

Is the applicant a corporation, partnership, firm, business, trust or an unincorporated business? **Yes** **No**

- If **yes**, list the names of all officers, directors, members, trustees, etc. below. (Attach a list if necessary)

Jeanne P. West

Maynard D. West

- If **yes**, list the businesses that have a parent-subsiary¹ or affiliated business entity² relationship with the applicant. (Attach a list if necessary)

¹ "Parent-subsiary relationship" means "a relationship that exists when one corporation directly or indirectly owns shares possessing more than 50 percent of the voting power of another corporation." See State and Local Government Conflict of Interests Act, VA. Code § 2.2-3101.

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Disclosure Statement



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- If **yes**, what is the name of the official or employee and what is the nature of the interest?
-

Applicant Services Disclosure

1. Does the applicant have **any existing financing (mortgage, deeds of trust, cross-collateralization, etc) or are they considering any financing** in connection with the subject of the application or any business operating or to be operated on the property?

Yes **No**

- If **yes**, identify the financial institutions.
-

2. Does the applicant have a **real estate broker/agent/realtor** for current and anticipated future sales of the subject property?

Yes **No**

- If **yes**, identify the real estate broker/realtor.
-

3. Does the applicant have services for **accounting and/or preparation of tax returns** provided in connection with the subject of the application or any business operating or to be operated on the property? **Yes** **No**

- If **yes**, identify the firm or individual providing the service.
-

4. Does the applicant have services from an **architect/landscape architect/land planner** provided in connection with the subject of the application or any business operating or to be operated on the property? **Yes** **No**

- If **yes**, identify the firm or individual providing the service.
-

5. Is there any other **pending or proposed purchaser** of the subject property? **Yes** **No**

- If **yes**, identify the purchaser and purchaser's service providers.
-

Disclosure Statement



6. Does the applicant have a **construction contractor** in connection with the subject of the application or any business operating or to be operated on the property? Yes No

- If **yes**, identify the construction contractor.

Project out for Bid

7. Does the applicant have an **engineer/surveyor/agent** in connection with the subject of the application or any business operating or to be operated on the property? Yes No

- If **yes**, identify the engineer/surveyor/agent.

Waterfront Consulting Inc, GPC, Chesapeake Bay Site Solutions, Carter Sinclair

8. Is the applicant receiving **legal services** in connection with the subject of the application or any business operating or to be operated on the property? Yes No

- If **yes**, identify the name of the attorney or firm providing legal services.

Applicant Signature

I certify that all of the information contained in this Disclosure Statement Form is complete, true, and accurate. I understand that, upon receipt of notification that the application has been scheduled for public hearing, I am responsible for updating the information provided herein two weeks prior to the meeting of Planning Commission, City Council, VBDA, CBPA, Wetlands Board or any public body or committee in connection with this application.

<i>Maynard D West</i>	<i>Jeanne P. West</i>
Applicant Signature	
<i>MAYNARD D. WEST</i>	<i>Jeanne P. West</i>
Print Name and Title	
<i>JAN 30 2022</i>	<i>Jan 30, 2022</i>
Date	

Is the applicant also the owner of the subject property? Yes No

- If **yes**, you do not need to fill out the owner disclosure statement.

FOR CITY USE ONLY/ All disclosures must be updated two (2) weeks prior to any Planning Commission and City Council meeting that pertains to the applications			
<input type="checkbox"/>	No changes as of	Date	Signature
			Print Name

FOR AGENCY USE ONLY	
	Notes:
JPA# 22-0602	

APPLICANTS

PLEASE PRINT OR TYPE ALL ANSWERS. If a question does not apply to your project, please print N/A (not applicable) in the space provided. *If additional space is needed, attach extra 8 ½ x 11 inch sheets of paper.*

Check all that apply			
<input type="checkbox"/> Pre-Construction Notification (PCN) <input type="checkbox"/> NWP # _____ <input type="checkbox"/> RP # 05 <i>(For NWPs & RP 05 ONLY - No DEQ-VWP permit writer will be assigned)</i>	<input type="checkbox"/> SPGP	<input type="checkbox"/> DEQ Reapplication Existing permit number: _____	<input type="checkbox"/> Receiving federal funds Agency providing funding: _____
<input type="checkbox"/> Regional Permit 17 Checklist (RP-17)			

PREVIOUS ACTIONS RELATED TO THE PROPOSED WORK (Include all federal, state, and local pre application coordination, site visits, previous permits, or applications whether issued, withdrawn, or denied)				
Historical information for past permit submittals can be found online with VMRC - https://webapps.mrc.virginia.gov/public/habitat/ - or VIMS - http://ccrm.vims.edu/perms/newpermits.html				
Agency	Action / Activity	Permit/Project number, including any non-reporting Nationwide permits previously used (e.g., NWP 13)	Date of Action	If denied, give reason for denial
All	Bulkhead & Dredge	MRC# 88-0819	08/1988	

1. APPLICANT, AGENT, PROPERTY OWNER, AND CONTRACTOR INFORMATION						
The applicant(s) is/are the legal entity to which the permit may be issued (see How to Apply at beginning of form). The applicant(s) can either be the property owner(s) or the person/people/company(ies) that intend(s) to undertake the activity. The agent is the person or company that is representing the applicant(s). If a company, please also provide the company name that is registered with the State Corporation Commission (SCC), or indicate no registration with the SCC.						
Legal Name(s) of Applicant(s) Haversham Close, LLC, et al				Agent (if applicable) Waterfront Consulting, Inc, Robert E Simon		
Mailing address 2393 Haversham Close				Mailing address 2589 Quality Court		
City Virginia Beach	State VA	ZIP Code 23454	City Virginia Beach	State VA	ZIP Code 23454	
Phone number w/area code (757) 689-5459	Fax		Phone number w/area code (757) 425-8244	Fax		
Mobile (757) 647-5555	E-mail steve@SBBallard.com		Mobile (757) 619-7302	E-mail bob@waterfrontconsulting.net		
State Corporation Commission Name and ID number (if applicable)				State Corporation Commission Name and ID number (if applicable) 047-4381-1		
<i>Certain permits or permit authorizations may be provided via electronic mail. If the applicant wishes to receive their permit via electronic mail, please provide an e-mail address here: <u>Steve@SBBallard.com</u></i>						

1. APPLICANT, AGENT, PROPERTY OWNER, AND CONTRACTOR INFORMATION (Continued)					
Property owner(s) legal name, if different from applicant Haversham Close, LLC, et al			Contractor, if known		
Mailing address 2393 Haversham Close			Mailing address		
City Virginia Beach	State VA	ZIP code 23454	City	State	ZIP code
Phone number w/area code (757) 689-5459	Fax		Phone number w/area code	Fax	
Mobile (757) 647-5555	E-mail steve@SBBallard.com		Mobile	E-mail	
State Corporation Commission Name and ID number (if applicable)			State Corporation Commission Name ID number (if applicable)		

2. PROJECT LOCATION INFORMATION (Attach a copy of a detailed map, such as a USGS topographic map or street map showing the site location and project boundary, so that it may be located for inspection. Include an arrow indicating the north direction. Include the drainage area if the SPGP box is checked on Page 7.)	
Street Address (911 address if available) 2385, 2389, 2393 & 2397 Haversham Close	City/County/ZIP Code Virginia Beach, VA 23454
Subdivision Broad Bay Point Greens	Lot/Block/Parcel # Lots 59, 60, 61 & 62 Phase One
Name of water body(ies) within project boundaries and drainage area (acres or square miles). Dey Cove	
Tributary(ies) to: <u>Broad Bay</u> Basin: <u>Lynnhaven</u> Sub-basin: <u>Broad Bay</u> (Example: Basin: <u>James River</u> Sub-basin: <u>Middle James River</u>)	
Special Standards (based on DEQ Water Quality Standards 9VAC25-260 et seq.): _____	
Project type (check one) _____ Single user (private, non-commercial, residential) <input checked="" type="checkbox"/> Multi-user (community, commercial, industrial, government) _____ Surface water withdrawal	
Latitude and longitude at center of project site (decimal degrees): <u>36.895053</u> / <u>-76.041790</u> (Example: 37.33164/-77.68200)	
USGS topographic map name: <u>Cape Henry</u>	
8-digit USGS Hydrologic Unit Code (HUC) for your project site (See http://cfpub.epa.gov/surf/locate/index.cfm): <u>02080108</u> If known, indicate the 10-digit and 12-digit USGS HUCs (see http://consapps.dcr.virginia.gov/htdocs/maps/HUExplorer.htm): <u>0208010802</u> <u>020801080201</u>	
Name of your project (Example: <i>Water Creek driveway crossing</i>) <u>Haversham Close, LLC, et al</u>	
Is there an access road to the project? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No. If yes, check all that apply: <input checked="" type="checkbox"/> public <input type="checkbox"/> private <input checked="" type="checkbox"/> improved <input type="checkbox"/> unimproved	
Total size of the project area (in acres): <u>1.5 acres</u>	

2. PROJECT LOCATION INFORMATION (Continued)

Provide driving directions to your site, giving distances from the best and nearest visible landmarks or major intersections:
 From I-264 E, take Exit 19C and turn left on London Bridge Road, continue through intersection onto N Great Neck Road for 3.4 miles, turn right on Dey Cove Drive for 0.7 miles, turn right on Haversham Close for 0.2 miles and site is on the right side of street at 2393 Haversham Close.

Does your project site cross boundaries of two or more localities (i.e., cities/counties/towns)? Yes No
 If so, name those localities: _____

3. DESCRIPTION OF THE PROJECT, PROJECT PRIMARY AND SECONDARY PURPOSES, PROJECT NEED, INTENDED USE(S), AND ALTERNATIVES CONSIDERED (Attach additional sheets if necessary)

- The purpose and need must include any new development or expansion of an existing land use and/or proposed future use of residual land.
- Describe the physical alteration of surface waters, including the use of pilings (#, materials), vibratory hammers, explosives, and hydraulic dredging, when applicable, and whether or not tree clearing will occur (include the area in square feet and time of year).
- Include a description of alternatives considered and measures taken to avoid or minimize impacts to surface waters, including wetlands, to the maximum extent practicable. Include factors such as, but not limited to, alternative construction technologies, alternative project layout and design, alternative locations, local land use regulations, and existing infrastructure
- For utility crossings, include both alternative routes and alternative construction methodologies considered
- For surface water withdrawals, public surface water supply withdrawals, or projects that will alter in stream flows, include the water supply issues that form the basis of the proposed project.

The project is to maintenance dredge the 4 properties in the basin and dredge a channel through the sand bar by mechanical methods. The sand bar is migrating south and cutting off access for 25 properties along Dey Cove Drive, Godfrey Lane and Haversham Close. The historical Google Earth photos of the sand bar show a mitigation of approximately 110' from 2006 through March 2022.

The proposed dredging will be by mechanical methods. The dredge spoils will be loaded into into hopper barges and taken to Crab Creek for transfer to sealed dump trucks for transport to the Whitehurst Burrow Pit Dredged Material Disposal Area.

Date of proposed commencement of work (MM/DD/YYYY) <u>05/2022</u>	Date of proposed completion of work (MM/DD/YYYY) <u>05/2023</u>
Are you submitting this application at the direction of any state, local, or federal agency? ____ Yes <u>X</u> No	Has any work commenced or has any portion of the project for which you are seeking a permit been completed? ____ Yes <u>X</u> No

If you answered "yes" to either question above, give details stating when the work was completed and/or when it commenced, who performed the work, and which agency (if any) directed you to submit this application. In addition, you will need to clearly differentiate between completed work and proposed work on your project drawings.

Are you aware of any unresolved violations of environmental law or litigation involving the property? ____ Yes X No
 (If yes, please explain)

4. PROJECT COSTS

Approximate cost of the entire project, including materials and labor: \$ 550,000.00
 Approximate cost of only the portion of the project affecting state waters (channelward of mean low water in tidal areas and below ordinary high water mark in nontidal areas): \$ 500,000.00

5. PUBLIC NOTIFICATION (Attach additional sheets if necessary)

Complete information for all property owners adjacent to the project site and across the waterway, if the waterway is less than 500 feet in width. If your project is located within a cove, you will need to provide names and mailing addresses for all property owners within the cove. If you own the adjacent lot, provide the requested information for the first adjacent parcel beyond your property line. Per Army Regulation (AR 25-51) outgoing correspondence must be addressed to a person or business.
Failure to provide this information may result in a delay in the processing of your application by VMRC.

Property owner's name	Mailing address	City	State	ZIP code
David S Culpepper	2381 Haversham Close	Virginia Beach	VA	23454
Andrew J Downing	2401 Haversham Close	Virginia Beach	VA	23454

Name of newspaper having general circulation in the area of the project: The Virginian Pilot
 Address and phone number (including area code) of newspaper: 150 W Brambleton Avenue, Norfolk, VA 23510

Have adjacent property owners been notified with forms in Appendix A? Yes No (attach copies of distributed forms)

6. THREATENED AND ENDANGERED SPECIES INFORMATION

Please provide any information concerning the potential for your project to impact state and/or federally threatened and endangered species (listed or proposed). Attach correspondence from agencies and/or reference materials that address potential impacts, such as database search results or confirmed waters and wetlands delineation/jurisdictional determination. Include information when applicable regarding the location of the project in Endangered Species Act-designated or -critical habitats. Contact information for the U.S. Fish and Wildlife Service, National Oceanic and Atmospheric Administration, Virginia Dept. of Game and Inland Fisheries, and the Virginia Dept. of Conservation and Recreation-Division of Natural Heritage can be found on page 4 of this package.

7. HISTORIC RESOURCES INFORMATION

Note: Historic properties include but are not limited to archeological sites, battlefields, Civil War earthworks, graveyards, buildings, bridges, canals, etc. Prospective permittees should be aware that section 110k of the NHPA (16 U.S.C. 470h-2(k)) prevents the USACE from granting a permit or other assistance to an applicant who, with intent to avoid the requirements of Section 106 of the NHPA, has intentionally significantly adversely affected a historic property to which the permit would relate, or having legal power to prevent it, allowed such significant adverse effect to occur, unless the USACE, after consultation with the Advisory Council on Historic Preservation (ACHP), determines that circumstances justify granting such assistance despite the adverse effect created or permitted by the applicant.

Are any historic properties located within or adjacent to the project site? Yes No Uncertain
 If Yes, please provide a map showing the location of the historic property within or adjacent to the project site.

Are there any buildings or structures 50 years old or older located on the project site? Yes No Uncertain
 If Yes, please provide a map showing the location of these buildings or structures on the project site.

Is your project located within a historic district? Yes No Uncertain
 If Yes, please indicate which district: _____

7. HISTORIC RESOURCES INFORMATION (Continued)

Has a survey to locate archeological sites and/or historic structures been carried out on the property?
 ___ Yes X No ___ Uncertain

If Yes, please provide the following information: Date of Survey: _____

Name of firm: _____

Is there a report on file with the Virginia Department of Historic Resources? ___ Yes ___ No ___ Uncertain

Title of Cultural Resources Management (CRM) report: _____

Was any historic property located? ___ Yes ___ No ___ Uncertain

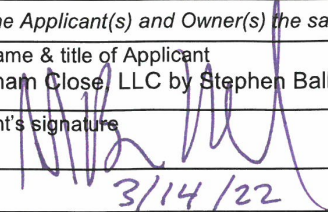

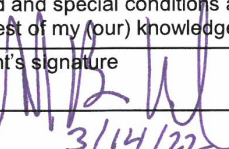
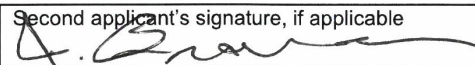
8. WETLANDS, WATERS, AND DUNES/BEACHES IMPACT INFORMATION

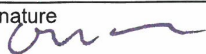
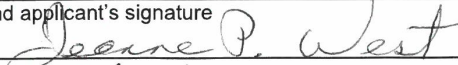
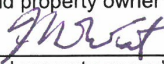


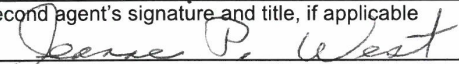
Report each impact site in a separate column. If needed, attach additional sheets using a similar table format. Please ensure that the associated project drawings clearly depict the location and footprint of each numbered impact site. For dredging, mining, and excavating projects, use Section 17.

	Impact site number 1	Impact site number 2	Impact site number 3	Impact site number 4	Impact site number 5
Impact description (use all that apply): F=fill EX=excavation S=Structure T=tidal NT=non-tidal TE=temporary PE=permanent PR=perennial IN=intermittent SB=subaqueous bottom DB=dune/beach IS=hydrologically isolated V=vegetated NV=non-vegetated MC=Mechanized Clearing of PFO (Example: F, NT, PE, V)	Sand Bar/ Channel EX, TE, T, DB, SB	Basin EX, TE, T, SB, NV			
Latitude / Longitude (in decimal degrees)	36.893748 -76.041417	36.894874 -76.041905			
Wetland/waters impact area (square feet / acres)	14,473 SF 0.33 AC	40,704 SF 0.93 AC			
Dune/beach impact area (square feet)	1,411 SF 0.032 AC				
Stream dimensions at impact site (length and average width in linear feet, and area in square feet)					
Volume of fill below Mean High Water or Ordinary High Water (cubic yards)	N/A				

8. WETLANDS/WATERS IMPACT INFORMATION (Continued)					
Cowardin classification of impacted wetland/water or geomorphological classification of stream <i>Example wetland: PFO; Example stream: 'C' channel and if tidal, whether vegetated or non-vegetated wetlands per Section 28.2-1300 of the Code of Virginia</i>	E2US2P E1UBL	E2EM1P E1UBL			
Average stream flow at site (flow rate under normal rainfall conditions in cubic feet per second) and method of deriving it (gage, estimate, etc.)					
Contributing drainage area in acres or square miles (VMRC cannot complete review without this information)					
DEQ classification of impacted resource(s): Estuarine Class II Non-tidal waters Class III Mountainous zone waters Class IV Stockable trout waters Class V Natural trout waters Class VI Wetlands Class VII https://law.lis.virginia.gov	Estuarine Class II	Estuarine Class II			
For DEQ permitting purposes, also submit as part of this section a wetland and waters boundary delineation map – see (3) in the Footnotes section in the form instructions.					
For DEQ permitting purposes, also submit as part of this section a written disclosure of all wetlands, open water, or streams that are located within the proposed project or compensation areas that are also under a deed restriction, conservation easement, restrictive covenant, or other land-use protective instrument.					

9. APPLICANT, AGENT, PROPERTY OWNER, AND CONTRACTOR CERTIFICATIONS
READ ALL OF THE FOLLOWING CAREFULLY BEFORE SIGNING
PRIVACY ACT STATEMENT: The Department of the Army permit program is authorized by Section 10 of the Rivers and Harbors Act of 1899, Section 404 of the Clean Water Act, and Section 103 of the Marine Protection Research and Sanctuaries Act of 1972. These laws require that individuals obtain permits that authorize structures and work in or affecting navigable waters of the United States, the discharge of dredged or fill material into waters of the United States, and the transportation of dredged material for the purpose of dumping it into ocean waters prior to undertaking the activity. Information provided in the Joint Permit Application will be used in the permit review process and is a matter of public record once the application is filed. Disclosure of the requested information is voluntary, but it may not be possible to evaluate the permit application or to issue a permit if the information requested is not provided.
CERTIFICATION: I am hereby applying for permits typically issued by the DEQ, VMRC, USACE, and/or Local Wetlands Boards for the activities I have described herein. I agree to allow the duly authorized representatives of any regulatory or advisory agency to enter upon the premises of the project site at reasonable times to inspect and photograph site conditions, both in reviewing a proposal to issue a permit and after permit issuance to determine compliance with the permit.
In addition, I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

9. APPLICANT, AGENT, PROPERTY OWNER, AND CONTRACTOR CERTIFICATIONS (Continued)	
Is/Are the Applicant(s) and Owner(s) the same? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Legal name & title of Applicant Haversham Close, LLC by Stephen Ballard	Second applicant's legal name & title, if applicable Robert A. Broermann
Applicant's signature 	Second applicant's signature 
Date 3/14/22	Date 3/14/22
Property owner's legal name, if different from Applicant	Second property owner's legal name, if applicable
Property owner's signature, if different from Applicant	Second property owner's signature
Date	Date
CERTIFICATION OF AUTHORIZATION TO ALLOW AGENT(S) TO ACT ON APPLICANT'S(S)' BEHALF (IF APPLICABLE)	
I (we), <u>Haversham Close, LLC by Stephen Ballard</u> (and) <u>Robert A. Broermann</u> , APPLICANT'S LEGAL NAME(S) – complete the second blank if more than one Applicant	
hereby certify that I (we) have authorized <u>Waterfront Consulting, Inc.</u> (and) _____ AGENT'S NAME(S) – complete the second blank if more than one Agent	
to act on my (our) behalf and take all actions necessary to the processing, issuance, and acceptance of this permit and any and all standard and special conditions attached. I (we) hereby certify that the information submitted in this application is true and accurate to the best of my (our) knowledge.	
Applicant's signature 	Second applicant's signature, if applicable 
Date 3/14/22	Date 3/14/22
Agent's signature and title Robert E Simon	Second agent's signature and title, if applicable
Date 3/15/2022	Date
CONTRACTOR ACKNOWLEDGEMENT (IF APPLICABLE)	
I (we), <u>Haversham Close, LLC by Stephen Ballard</u> (and) <u>Robert A. Broermann</u> , APPLICANT'S LEGAL NAME(S) – complete the second blank if more than one Applicant	
have contracted _____ (and) _____ CONTRACTOR'S NAME(S) – complete the second blank if more than one Contractor	
to perform the work described in this Joint Permit Application, signed and dated _____.	
I (we) will read and abide by all conditions as set forth in all federal, state, and local permits as required for this project. I (we) understand that failure to follow the conditions of the permits may constitute a violation of applicable federal, state, and local statutes and that we will be liable for any civil and/or criminal penalties imposed by these statutes. In addition, I (we) agree to make available a copy of any permit to any regulatory representative visiting the project site to ensure permit compliance. If I (we) fail to provide the applicable permit upon request, I (we) understand that the representative will have the option of stopping our operation until it has been determined that we have a properly signed and executed permit and are in full compliance with all of the terms and conditions.	
Contractor's name or name of firm (printed/typed)	Contractor's or firm's mailing address
Contractor's signature and title	Contractor's license number
Applicant's signature	Second applicant's signature, if applicable
Date	Date

9. APPLICANT, AGENT, PROPERTY OWNER, AND CONTRACTOR CERTIFICATIONS (Continued)		
Is/Are the Applicant(s) and Owner(s) the same? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Legal name & title of Applicant Allen M. Larar	Second applicant's legal name & title, if applicable Maynard & Jeanne West	
Applicant's signature 	Second applicant's signature 	
Date 3/14/22	Date 3/14/22	
Property owner's legal name, if different from Applicant	Second property owner's legal name, if applicable 	
Property owner's signature, if different from Applicant	Second property owner's signature	
Date	Date	
CERTIFICATION OF AUTHORIZATION TO ALLOW AGENT(S) TO ACT ON APPLICANT'S(S)' BEHALF (IF APPLICABLE)		
I (we), <u>Allen M. Larar</u> (and) <u>Maynard & Jeanne West</u> , APPLICANT'S LEGAL NAME(S) – complete the second blank if more than one Applicant		
hereby certify that I (we) have authorized <u>Waterfront Consulting, Inc.</u> (and) _____ AGENT'S NAME(S) – complete the second blank if more than one Agent		
to act on my (our) behalf and take all actions necessary to the processing, issuance, and acceptance of this permit and any and all standard and special conditions attached. I (we) hereby certify that the information submitted in this application is true and accurate to the best of my (our) knowledge.		
Applicant's signature 	Second applicant's signature, if applicable 	
Date 3/14/22	Date 3/14/22	
Agent's signature and title Robert E Simon	Second agent's signature and title, if applicable 	
Date 3/15/2022	Date	
CONTRACTOR ACKNOWLEDGEMENT (IF APPLICABLE)		
I (we), <u>Allen M. Larar</u> (and) <u>Maynard & Jeanne West</u> , APPLICANT'S LEGAL NAME(S) – complete the second blank if more than one Applicant		
have contracted _____ (and) _____ CONTRACTOR'S NAME(S) – complete the second blank if more than one Contractor		
to perform the work described in this Joint Permit Application, signed and dated _____.		
I (we) will read and abide by all conditions as set forth in all federal, state, and local permits as required for this project. I (we) understand that failure to follow the conditions of the permits may constitute a violation of applicable federal, state, and local statutes and that we will be liable for any civil and/or criminal penalties imposed by these statutes. In addition, I (we) agree to make available a copy of any permit to any regulatory representative visiting the project site to ensure permit compliance. If I (we) fail to provide the applicable permit upon request, I (we) understand that the representative will have the option of stopping our operation until it has been determined that we have a properly signed and executed permit and are in full compliance with all of the terms and conditions.		
Contractor's name or name of firm (printed/typed)	Contractor's or firm's mailing address	
Contractor's signature and title	Contractor's license number	Date
Applicant's signature	Second applicant's signature, if applicable	
Date	Date	

16. BEACH NOURISHMENT (Continued)

Describe the type(s) of vegetation proposed for stabilization and the proposed planting plan, including schedule, spacing, monitoring, etc. Attach additional sheets if necessary.

17. DREDGING, MINING, AND EXCAVATING

FILL OUT THE FOLLOWING TABLE FOR DREDGING PROJECTS

	NEW dredging				MAINTENANCE dredging			
	Hydraulic		Mechanical (clamshell, dragline, etc.)		Hydraulic		Mechanical (clamshell, dragline, etc.)	
	Cubic yards	Square feet	Cubic yards	Square feet	Cubic yards	Square feet	Cubic yards	Square feet
Vegetated wetlands								
Non-vegetated wetlands			314	1,411			1,129	4,354
Subaqueous land			1,558	14,473			2,895	36,350
Totals			1,872	15,884			4,024	40,704

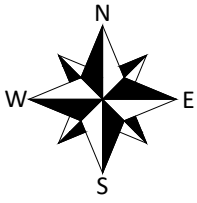
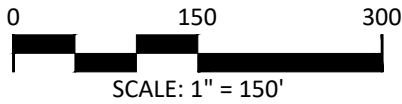
Is this a one-time dredging event? Yes No If "no", how many dredging cycles are anticipated: _____
 (____ initial cycle in cu. yds.) (____ subsequent cycles in cu. yds.)

Composition of material (percentage sand, silt, clay, rock):
 Provide documentation (i.e., laboratory results or analytical reports) that dredged material from on-site areas is free of toxics. If not free of toxics, provide documentation of proper disposal (i.e., bill of lading from commercial supplier or disposal site).
 See attached report.

Please include a dredged material management plan that includes specifics on how the dredged material will be handled and retained to prevent its entry into surface waters or wetlands. If on-site dewatering is proposed, please include plan view and cross-sectional drawings of the dewatering area and associated outfall. All dredging will be mechanical. The spoils will be taken to Crab Creek boat ramp in hopper barges and transferred to gate sealed dump trucks for final disposal at Whitehurst Dredge Spoils Management Area.

Will the dredged material be used for any commercial purpose or beneficial use? Yes No
 If yes, please explain:

If this is a maintenance dredging project, what was the date that the dredging was last performed? 1988/89
 Permit number of original permit: MRC#1988-0819 (It is important that you attach a copy of the original permit.)



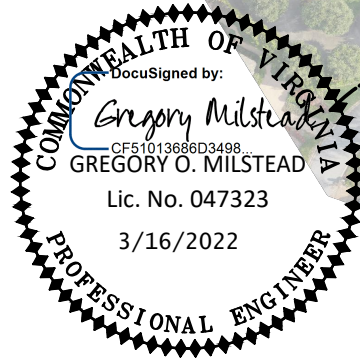
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BROAD BAY
 ← EBB
 → FLOOD



APO #1
 NOW OR FORMERLY
 DAVID S CULPEPPER
 2381 HAVERSHAM CLOSE
 GPIN: 2409-15-7057

APO #2
 NOW OR FORMERLY
 ANDREW J DOWNING
 2401 HAVERSHAM CLOSE
 GPIN: 2409-14-4512



**HAVERSHAM CLOSE
 50' RIGHT-OF-WAY**

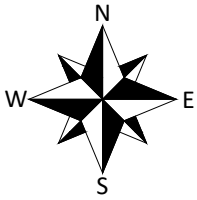
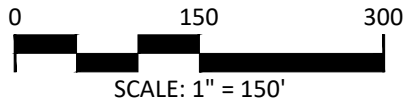
**EXISTING
 CONDITIONS**

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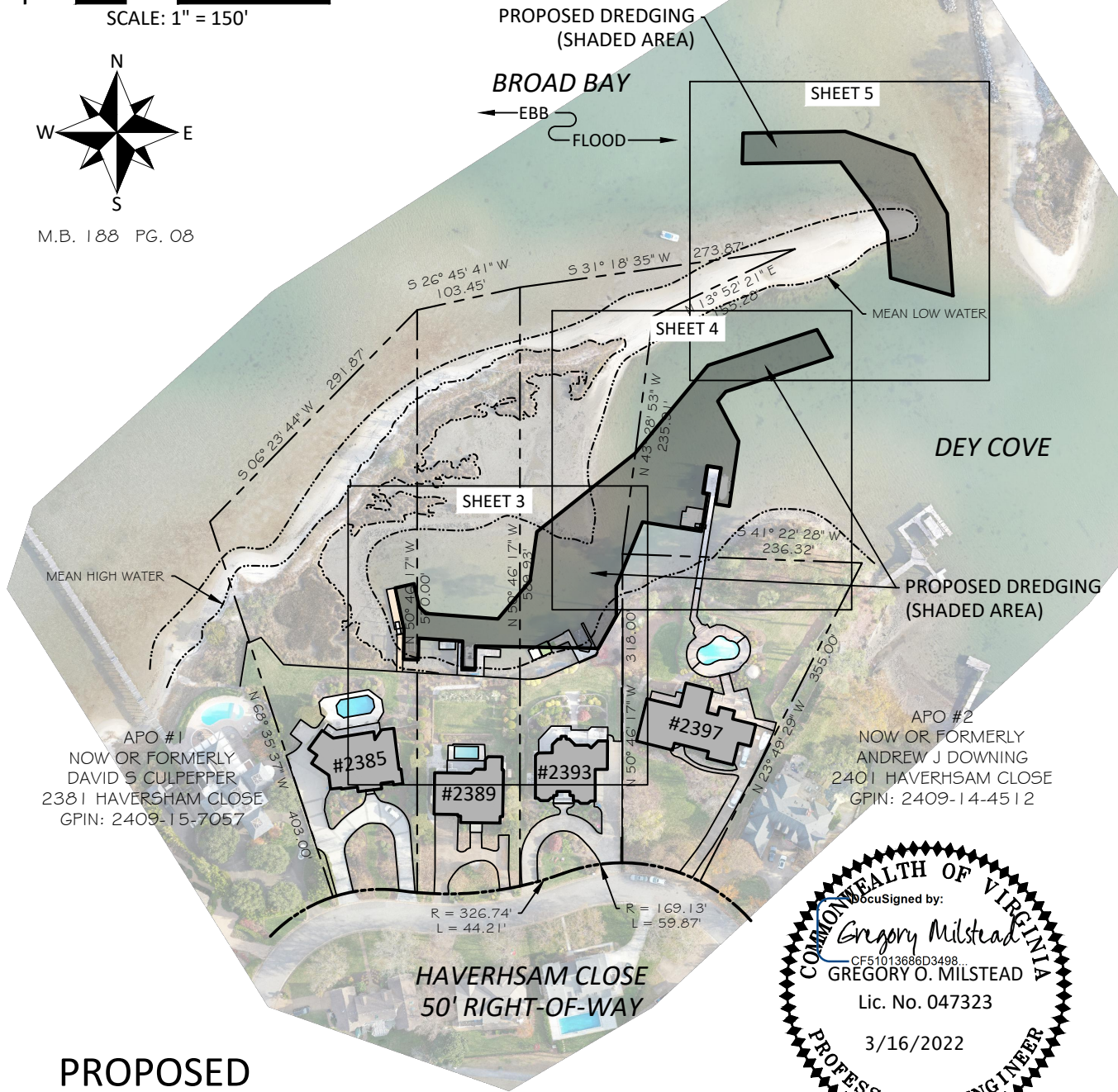
PURPOSE: BOATING ACCESS
 DATUM: MLW = 0.00'
 APOS:
 1. DAVID S. CULPEPPER
 2. ANDREW J. DOWNING

**WATERFRONT
 CONSULTING, INC.**
 2589 QUALITY COURT, SUITE 323
 VIRGINIA BEACH, VA 23454
 PHONE: (757) 425-8244, MOBILE: (757) 619-7302
 ENGINEERING SERVICES PROVIDED BY:
 CHESAPEAKE BAY SITE SOLUTIONS, INC.
 P.O BOX 6663 VIRGINIA BEACH, VA 23456
 PHONE: (757) 575-3715

PROPOSED: DREDGING
 IN: DEY COVE
 AT: 2385, 2389, 2393, 2397 HAVERSHAM CLOSE
 VIRGINIA BEACH, VA 23454
 APPLICATION BY:
 HAVERSHAM CLOSE LLC.
 SHEET: 1 OF 12
 DATE: MARCH 15, 2022



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PURPOSE: BOATING ACCESS
 DATUM: MLW = 0.00'
 APOS:
 1. DAVID S. CULPEPPER
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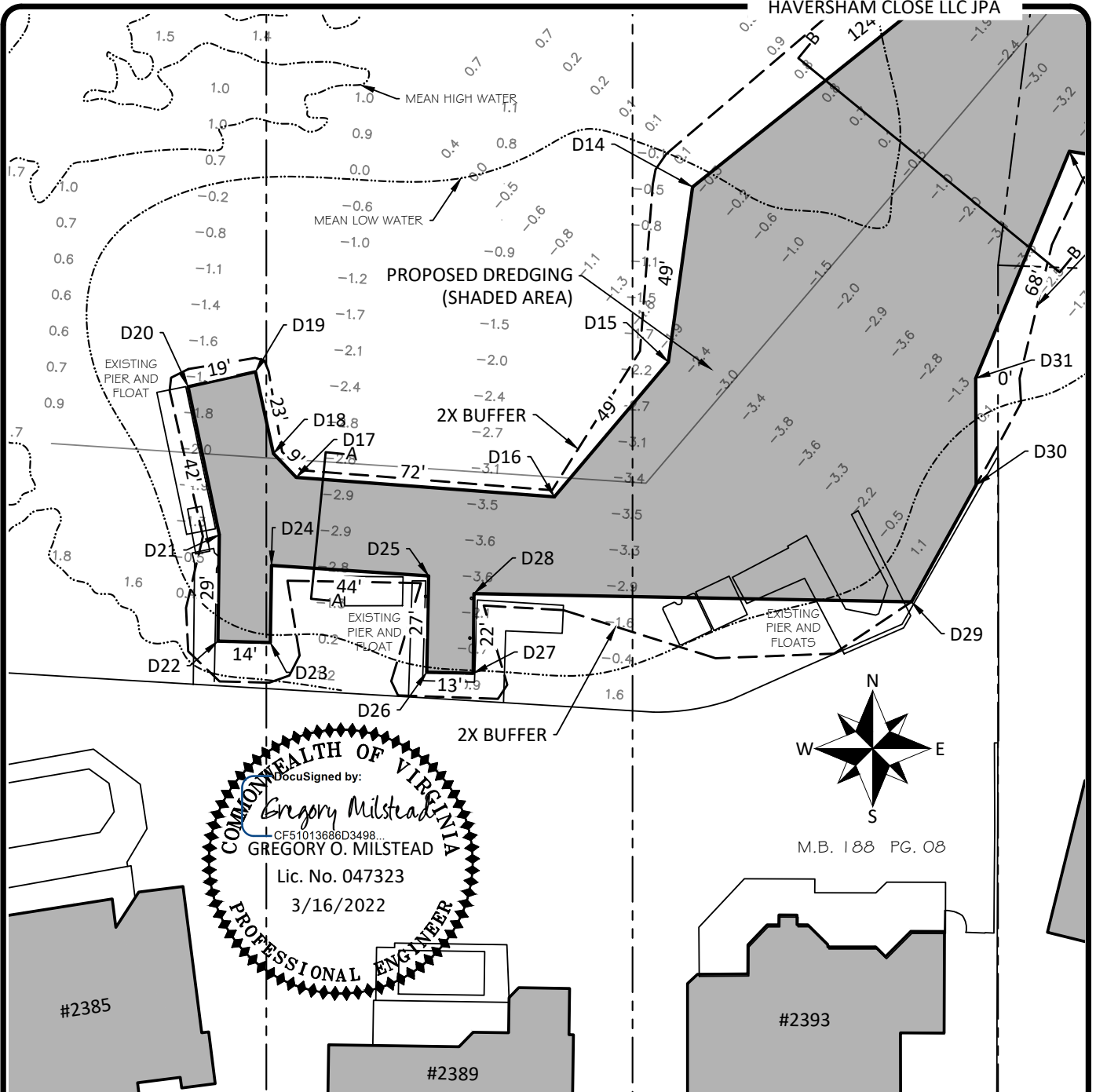
WATERFRONT CONSULTING, INC.

2589 QUALITY COURT, SUITE 323
 VIRGINIA BEACH, VA 23454
 PHONE: (757) 425-8244, MOBILE: (757) 619-7302

ENGINEERING SERVICES PROVIDED BY:
 CHESAPEAKE BAY SITE SOLUTIONS, INC.
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 PHONE: (757) 575-3715

PROPOSED: DREDGING
 IN: DEY COVE
 AT: 2385, 2389, 2393, 2397 HAVERSHAM CLOSE
 VIRGINIA BEACH, VA 23454
 APPLICATION BY:
 HAVERSHAM CLOSE LLC.

SHEET: 2 OF 12
 DATE: MARCH 15, 2022



DocuSigned by:
Gregory Milstead
 CF51013686D3498...
GREGORY O. MILSTEAD
 Lic. No. 047323
 3/16/2022
PROFESSIONAL ENGINEER

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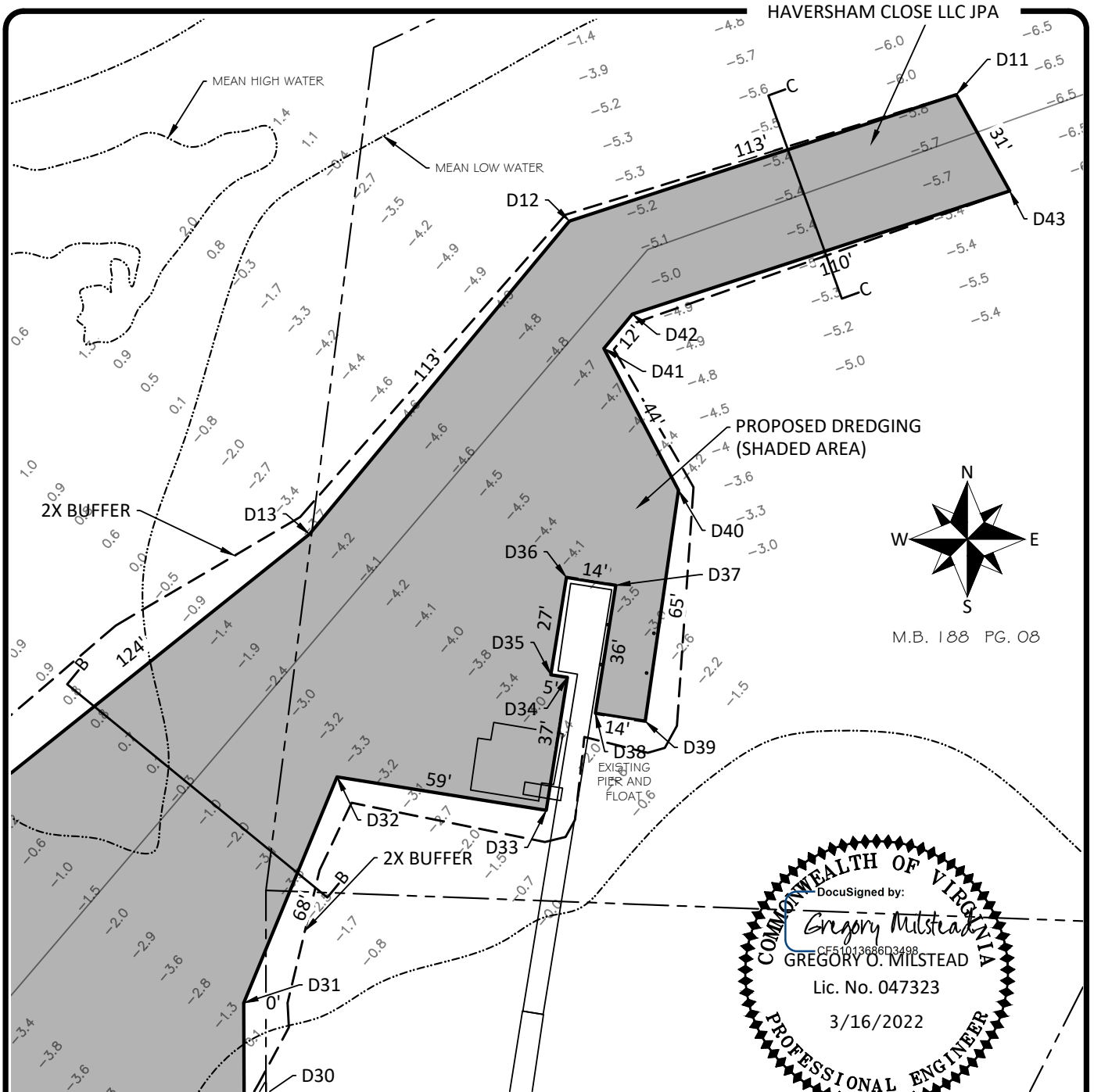
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PURPOSE: BOATING ACCESS
 DATUM: MLW = 0.00'
 APOS:
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 2. ANDREW J. DOWNING

WCI WATERFRONT CONSULTING, INC.
 2589 QUALITY COURT, SUITE 323
 VIRGINIA BEACH, VA 23454
 PHONE: (757) 425-8244, MOBILE: (757) 619-7302
 ENGINEERING SERVICES PROVIDED BY:
 CHESAPEAKE BAY SITE SOLUTIONS, INC.
 P.O BOX 6663 VIRGINIA BEACH, VA 23456
 PHONE: (757) 575-3715

PROPOSED: DREDGING
 IN: DEY COVE
 AT: 2385, 2389, 2393, 2397 HAVERSHAM CLOSE
 VIRGINIA BEACH, VA 23454
 APPLICATION BY:
 HAVERSHAM CLOSE LLC.
 SHEET: 3 OF 12
 DATE: MARCH 15, 2022



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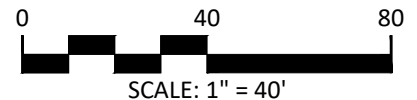
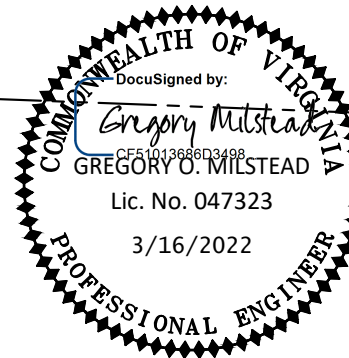
PURPOSE: BOATING ACCESS
 DATUM: MLW = 0.00'
 APOS:
 1. DAVID S. CULPEPPER
 2. ANDREW J. DOWNING



WATERFRONT CONSULTING, INC.

2589 QUALITY COURT, SUITE 323
 VIRGINIA BEACH, VA 23454
 PHONE: (757) 425-8244, MOBILE: (757) 619-7302

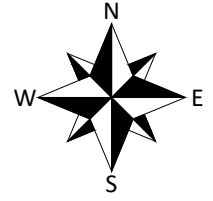
ENGINEERING SERVICES PROVIDED BY:
 CHESAPEAKE BAY SITE SOLUTIONS, INC.
 P.O BOX 6663 VIRGINIA BEACH, VA 23456
 PHONE: (757) 575-3715



PROPOSED: DREDGING
 IN: DEY COVE
 AT: 2385, 2389, 2393, 2397 HAVERSHAM CLOSE
 VIRGINIA BEACH, VA 23454
 APPLICATION BY:
 HAVERSHAM CLOSE LLC.

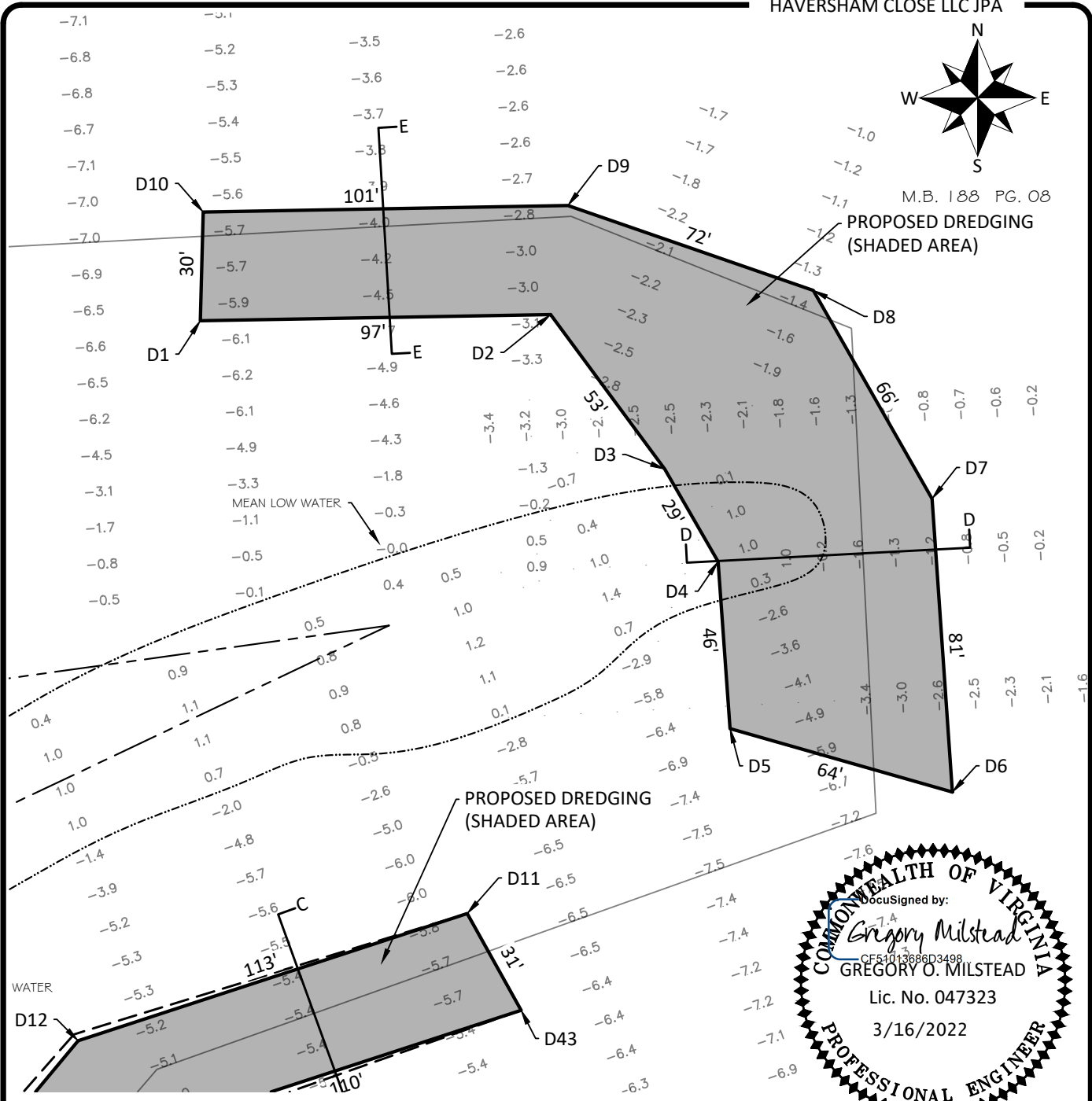
SHEET: 4 OF 12
 DATE: MARCH 15, 2022

HAVERSHAM CLOSE LLC JPA

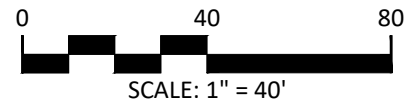
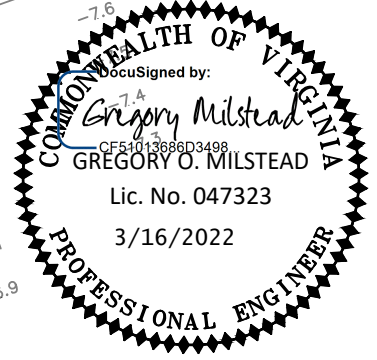


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PROPOSED DREDGING (SHADED AREA)



PROPOSED IMPROVEMENTS



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PURPOSE: BOATING ACCESS
 DATUM: MLW = 0.00'
 APOS:
 1. DAVID S. CULPEPPER
 2. ANDREW J. DOWNING



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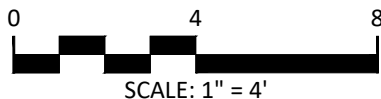
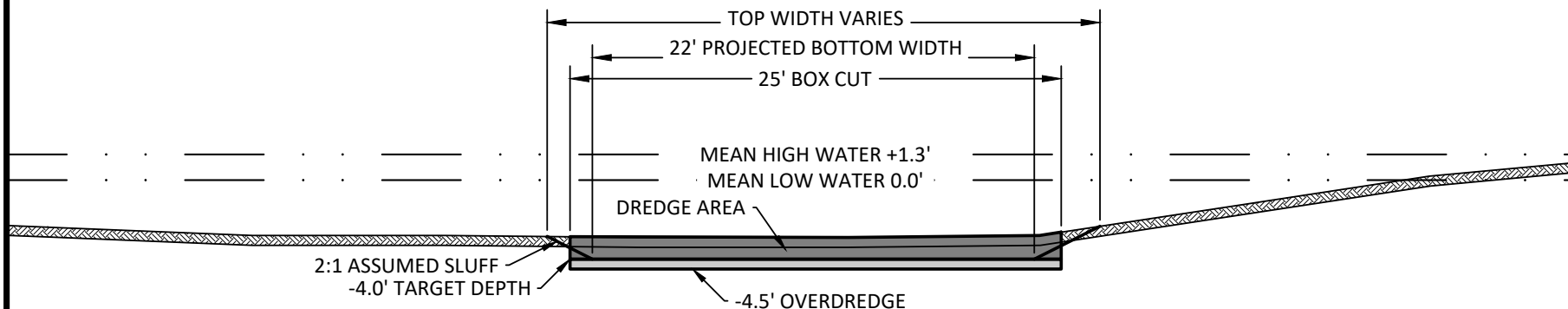
2589 QUALITY COURT, SUITE 323
 VIRGINIA BEACH, VA 23454
 PHONE: (757) 425-8244, MOBILE: (757) 619-7302

ENGINEERING SERVICES PROVIDED BY:
 CHESAPEAKE BAY SITE SOLUTIONS, INC.
 P.O BOX 6663 VIRGINIA BEACH, VA 23456
 PHONE: (757) 575-3715

PROPOSED: DREDGING
 IN: DEY COVE
 AT: 2385, 2389, 2393, 2397 HAVERSHAM CLOSE
 VIRGINIA BEACH, VA 23454
 APPLICATION BY:
 HAVERSHAM CLOSE LLC.

SHEET: 5 OF 12
 DATE: MARCH 15, 2022

PROPOSED DREDGING CROSS SECTION A-A (BASIN PAD)



Pad Report BASIN PAD CALCS Thu Dec 30 21:37:52 2021

Top of pad elevation range:: -6.0000 to -4.0000
 Cut Slope: 50.00% 2.000:1 26.57°
 Fill Slope: 50.00% 2.000:1 26.57°
 Existing Surface: C:\Carlson Projects\Drawing1-ex.tin
 Cut Swell Factor: 1.00
 Fill Shrink Factor: 1.00

Pad Earthwork Volumes
 Cut : 102,744.3 C.F., 3,805.34 C.Y.
 Fill: 0.1 C.F., 0.00 C.Y.
 Area: 40399.7 Sq.Ft., 0.927 Acres

Pad Report SAND BAR CHANNEL Fri Dec 31 08:57:34 2021

Top of pad elevation range:: -6.0000 to -6.0000
 Cut Slope: 50.00% 2.000:1 26.57°
 Fill Slope: 50.00% 2.000:1 26.57°
 Existing Surface: C:\Carlson Projects\Drawing1-ex.tin
 Cut Swell Factor: 1.00
 Fill Shrink Factor: 1.00

Pad Earthwork Volumes
 Cut : 50,534.0 C.F., 1,871.63 C.Y.
 Fill: 0.4 C.F., 0.01 C.Y.
 Area: 16022.3 Sq.Ft., 0.368 Acres

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PURPOSE: BOATING ACCESS
 DATUM: MLW = 0.00'
 APOS:
 1. DAVID S. CULPEPPER
 2. ANDREW J. DOWNING

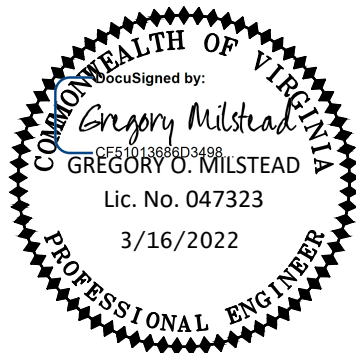
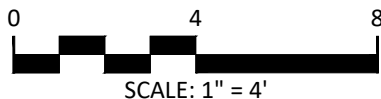
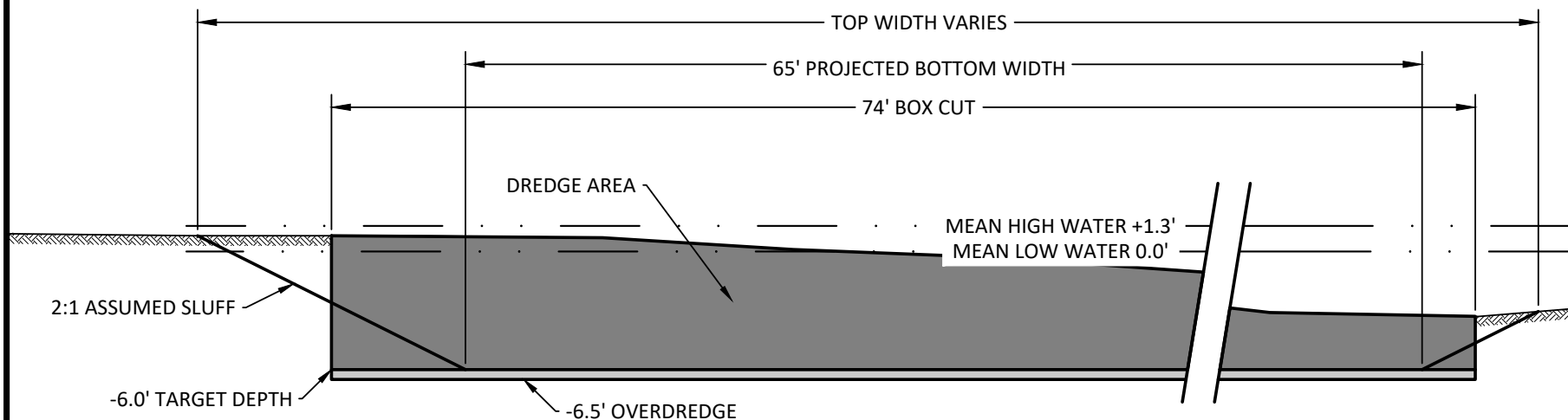
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 IN: DEY COVE
 AT: 2385, 2389, 2393, 2397 HAVERSHAM CLOSE
 VIRGINIA BEACH, VA 23454
 APPLICATION BY:
 HAVERSHAM CLOSE LLC.

SHEET: 6 OF 12
 DATE: MARCH 15, 2022

PROPOSED DREDGING CROSS SECTION B-B (BASIN PAD)



Pad Report BASIN PAD CALCS Thu Dec 30 21:37:52 2021

Top of pad elevation range:: -6.0000 to -4.0000
 Cut Slope: 50.00% 2.000:1 26.57°
 Fill Slope: 50.00% 2.000:1 26.57°
 Existing Surface: C:\Carlson Projects\Drawing1-ex.tin
 Cut Swell Factor: 1.00
 Fill Shrink Factor: 1.00

Pad Earthwork Volumes
 Cut : 102,744.3 C.F., 3,805.34 C.Y.
 Fill: 0.1 C.F., 0.00 C.Y.
 Area: 40399.7 Sq.Ft., 0.927 Acres

Pad Report SAND BAR CHANNEL Fri Dec 31 08:57:34 2021

Top of pad elevation range:: -6.0000 to -6.0000
 Cut Slope: 50.00% 2.000:1 26.57°
 Fill Slope: 50.00% 2.000:1 26.57°
 Existing Surface: C:\Carlson Projects\Drawing1-ex.tin
 Cut Swell Factor: 1.00
 Fill Shrink Factor: 1.00

Pad Earthwork Volumes
 Cut : 50,534.0 C.F., 1,871.63 C.Y.
 Fill: 0.4 C.F., 0.01 C.Y.
 Area: 16022.3 Sq.Ft., 0.368 Acres

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PURPOSE: BOATING ACCESS
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 APOS:
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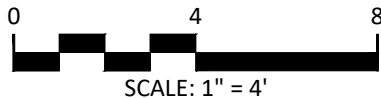
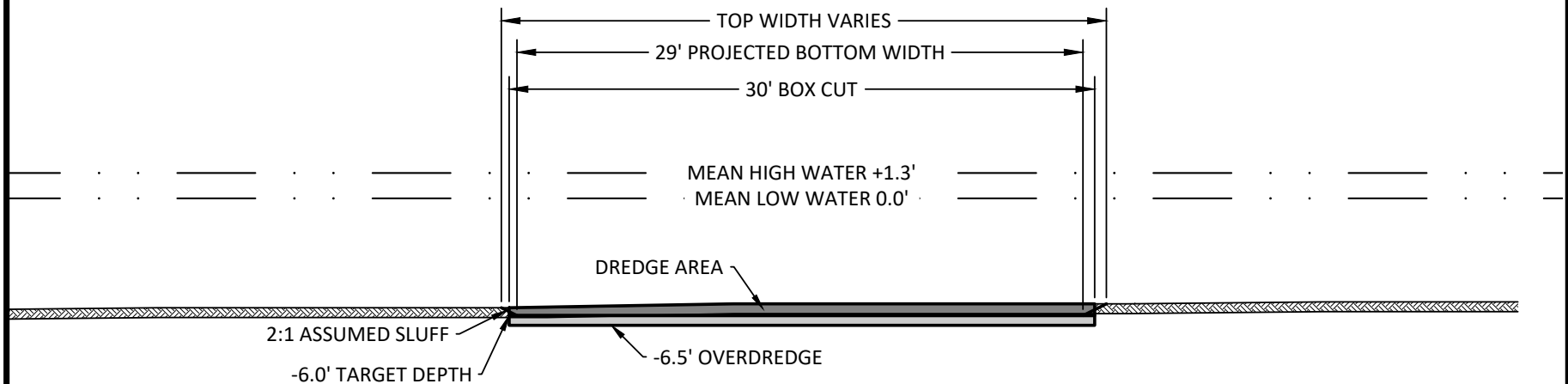
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 PHONE: (757) 575-3715

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 AT: 2385, 2389, 2393, 2397 HAVERSHAM CLOSE
 VIRGINIA BEACH, VA 23454
 APPLICATION BY:
 HAVERSHAM CLOSE LLC.

SHEET: 7 OF 12
 DATE: MARCH 15, 2022

PROPOSED DREDGING CROSS SECTION C-C (BASIN PAD)



Pad Report BASIN PAD CALCS Thu Dec 30 21:37:52 2021

Top of pad elevation range:: -6.0000 to -4.0000
 Cut Slope: 50.00% 2.000:1 26.57°
 Fill Slope: 50.00% 2.000:1 26.57°
 Existing Surface: C:\Carlson Projects\Drawing1-ex.tin
 Cut Swell Factor: 1.00
 Fill Shrink Factor: 1.00

Pad Earthwork Volumes
 Cut : 102,744.3 C.F., 3,805.34 C.Y.
 Fill: 0.1 C.F., 0.00 C.Y.
 Area: 40399.7 Sq.Ft., 0.927 Acres

Pad Report SAND BAR CHANNEL Fri Dec 31 08:57:34 2021

Top of pad elevation range:: -6.0000 to -6.0000
 Cut Slope: 50.00% 2.000:1 26.57°
 Fill Slope: 50.00% 2.000:1 26.57°
 Existing Surface: C:\Carlson Projects\Drawing1-ex.tin
 Cut Swell Factor: 1.00
 Fill Shrink Factor: 1.00

Pad Earthwork Volumes
 Cut : 50,534.0 C.F., 1,871.63 C.Y.
 Fill: 0.4 C.F., 0.01 C.Y.
 Area: 16022.3 Sq.Ft., 0.368 Acres

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PURPOSE: BOATING ACCESS
 DATUM: MLW = 0.00'
 APOS:
 1. DAVID S. CULPEPPER
 2. ANDREW J. DOWNING



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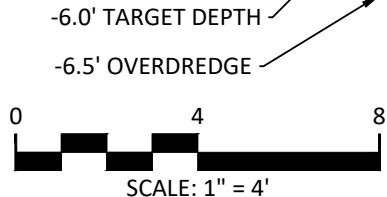
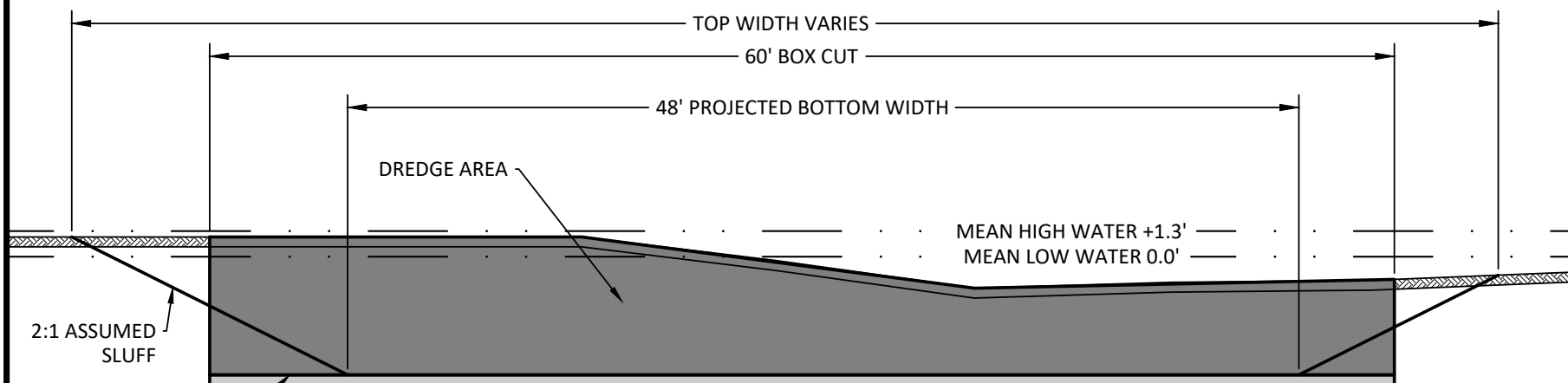
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ENGINEERING SERVICES PROVIDED BY:
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 PHONE: (757) 575-3715

PROPOSED: DREDGING
 IN: DEY COVE
 AT: 2385, 2389, 2393, 2397 HAVERSHAM CLOSE
 VIRGINIA BEACH, VA 23454
 APPLICATION BY:
 HAVERSHAM CLOSE LLC.

SHEET: 8 OF 12
 DATE: MARCH 15, 2022

PROPOSED DREDGING CROSS SECTION D-D (SAND BAR CHANNEL)



Pad Report BASIN PAD CALCS Thu Dec 30 21:37:52 2021

Top of pad elevation range:: -6.0000 to -4.0000
 Cut Slope: 50.00% 2.000:1 26.57°
 Fill Slope: 50.00% 2.000:1 26.57°
 Existing Surface: C:\Carlson Projects\Drawing1-ex.tin
 Cut Swell Factor: 1.00
 Fill Shrink Factor: 1.00

Pad Earthwork Volumes
 Cut : 102,744.3 C.F., 3,805.34 C.Y.
 Fill: 0.1 C.F., 0.00 C.Y.
 Area: 40399.7 Sq.Ft., 0.927 Acres

Pad Report SAND BAR CHANNEL Fri Dec 31 08:57:34 2021

Top of pad elevation range:: -6.0000 to -6.0000
 Cut Slope: 50.00% 2.000:1 26.57°
 Fill Slope: 50.00% 2.000:1 26.57°
 Existing Surface: C:\Carlson Projects\Drawing1-ex.tin
 Cut Swell Factor: 1.00
 Fill Shrink Factor: 1.00

Pad Earthwork Volumes
 Cut : 50,534.0 C.F., 1,871.63 C.Y.
 Fill: 0.4 C.F., 0.01 C.Y.
 Area: 16022.3 Sq.Ft., 0.368 Acres

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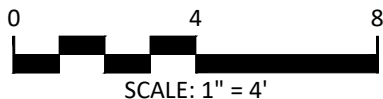
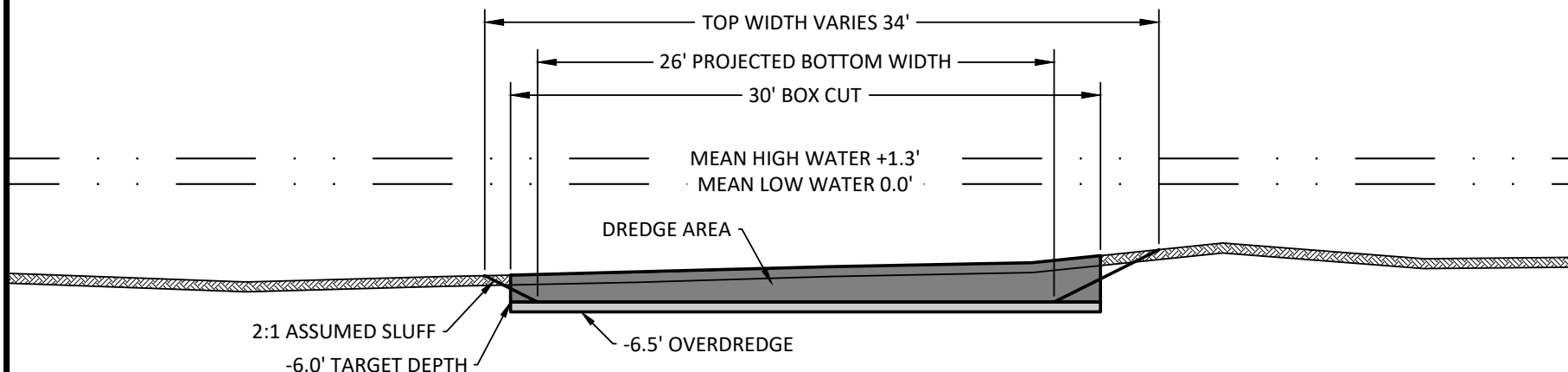
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 VIRGINIA BEACH, VA 23454
 APPLICATION BY:
 HAVERSHAM CLOSE LLC.

SHEET: 9 OF 12
 DATE: MARCH 15, 2022

PROPOSED DREDGING CROSS SECTION D-D (SAND BAR CHANNEL)



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 APPLICATION BY:
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SHEET: 10 OF 12
 DATE: MARCH 15, 2022

DREDGE CORNERS		
Point	Northing	Easting
D1	3494321.17	12201937.14
D2	3494237.86	12201888.16
D3	3494233.23	12201835.34
D4	3494234.02	12201805.93
D5	3494255.27	12201764.88
D6	3494212.07	12201717.91
D7	3494174.46	12201790.17
D8	3494172.57	12201856.04
D9	3494218.07	12201911.33
D10	3494304.71	12201962.27
D11	3494343.72	12201759.17
D12	3494453.60	12201785.25
D13	3494560.52	12201748.76
D14	3494683.14	12201733.24
D15	3494714.13	12201695.42
D16	3494760.44	12201680.07
D17	3494818.51	12201721.92
D18	3494820.43	12201730.82
D19	3494812.87	12201752.66
D20	3494830.92	12201758.90
D21	3494844.94	12201719.45
D22	3494860.60	12201694.59
D23	3494848.46	12201686.69
D24	3494837.05	12201704.71
D25	3494801.50	12201679.55
D26	3494815.91	12201657.16
D27	3494805.03	12201650.15
D28	3494793.37	12201668.85
D29	3494691.38	12201603.80
D30	3494659.28	12201622.04
D31	3494644.00	12201647.24
D32	3494589.16	12201687.27
D33	3494544.47	12201649.08
D34	3494520.20	12201677.48
D35	3494523.73	12201680.50
D36	3494505.96	12201701.31
D37	3494495.40	12201692.29
D38	3494518.78	12201664.94
D39	3494508.13	12201655.84
D40	3494466.66	12201705.86
D41	3494463.89	12201750.11
D42	3494452.18	12201754.11
D43	3494344.99	12201728.64

From	To	Direction	Distance
D1	D2	S 30°26'56" W	96.64
D2	D3	S 84°59'50" W	53.03
D3	D4	N 88°28'34" W	29.42
D4	D5	N 62°37'40" W	46.22
D5	D6	S 47°23'48" W	63.81
D6	D7	S 62°30'14" E	81.47
D7	D8	S 88°21'03" E	65.89
D8	D9	N 50°32'42" E	71.61
D9	D10	N 30°27'12" E	100.51
D10	D1	N 56°47'02" W	30.04
D11	D12	N 13°21'06" E	112.94
D12	D13	N 18°50'48" W	112.97
D13	D14	N 07°12'50" W	123.60
D14	D15	N 50°39'49" W	48.89
D15	D16	N 18°20'40" W	48.79
D16	D17	N 35°46'46" E	71.58
D17	D18	N 77°50'25" E	9.11
D18	D19	S 70°55'32" E	23.11
D19	D20	N 19°04'28" E	19.09
D20	D21	N 70°26'13" W	41.86
D21	D22	N 57°47'41" W	29.38
D22	D23	S 33°04'11" W	14.49
D23	D24	S 57°40'41" E	21.33
D24	D25	S 35°17'16" W	43.56
D25	D26	N 57°13'37" W	26.63
D26	D27	S 32°46'23" W	12.94
D27	D28	S 58°02'25" E	22.04
D28	D29	S 32°31'40" W	120.97
D29	D30	S 29°36'14" E	36.92
D30	D31	S 58°46'28" E	29.47
D31	D32	S 36°07'33" E	67.90
D32	D33	S 40°31'01" W	58.78
D33	D34	S 49°28'59" E	37.36
D34	D35	N 40°31'01" E	4.65
D35	D36	S 49°28'59" E	27.37
D36	D37	S 40°31'01" W	13.88
D37	D38	N 49°28'59" W	35.98
D38	D39	S 40°31'01" W	14.00
D39	D40	S 50°20'21" E	64.98
D40	D41	S 86°25'17" E	44.33
D41	D42	S 18°53'10" E	12.38
D42	D43	S 13°22'08" W	110.17
D43	D11	S 87°36'23" E	30.56



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2589 QUALITY COURT, SUITE 323
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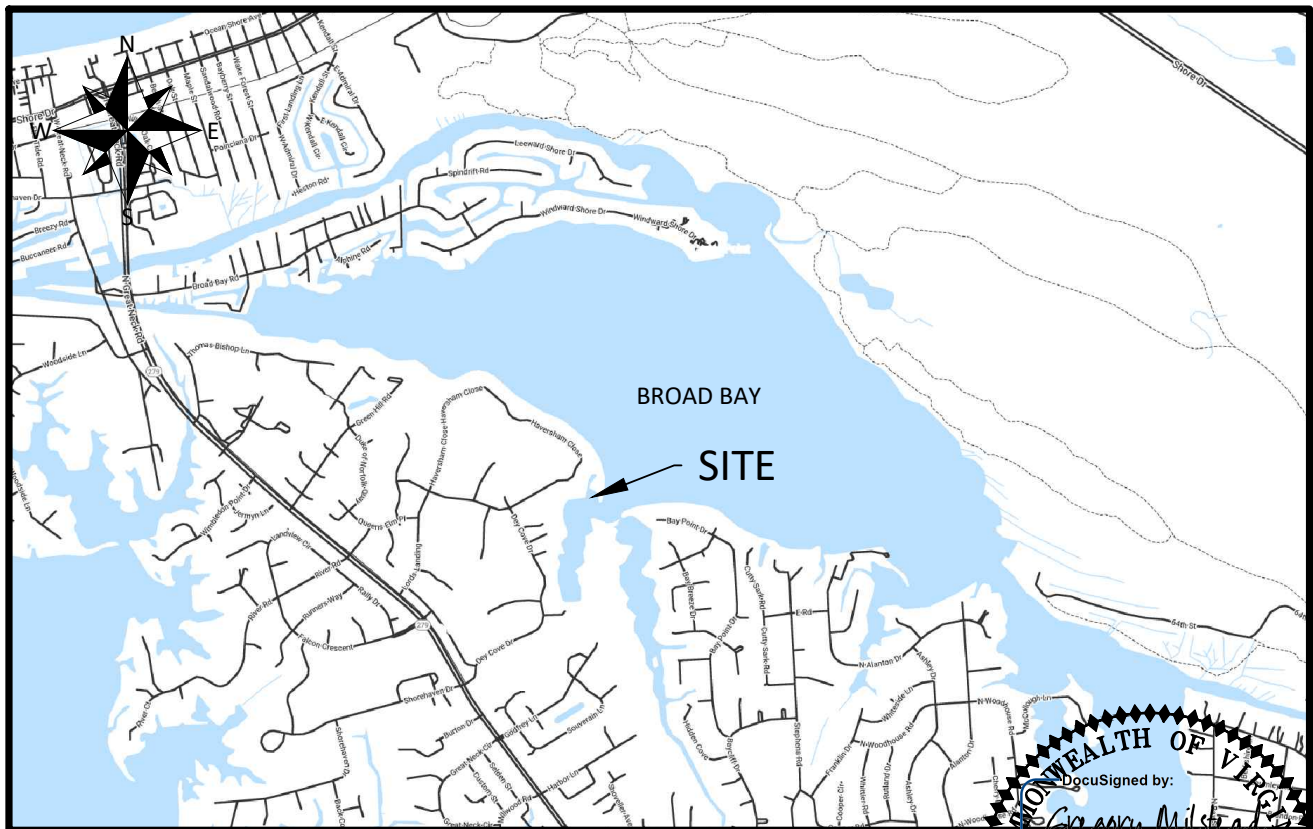
SHEET: 11 OF 12
 DATE: MARCH 15, 2022

SITE INFORMATION

LEGAL DESCRIPTION: LOTS 59-62, BROAD BAY POINT GREENS PHASE 1
 REFERENCE: MAP BOOK 188, PAGE(S) 08, ON FILE AT THE CLERK'S OFFICE, VIRGINIA BEACH, VA
 ZONING: R-30

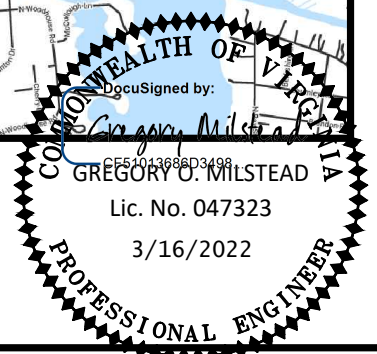
SEQUENCE OF EVENTS

1. OBTAIN ALL NECESSARY PERMITS.
2. SCHEDULE ON-SITE PRE-CONSTRUCTION MEETING WITH COASTAL ZONE INSPECTOR.
3. MOBILIZE EQUIPMENT TO SITE, MARK ACCESS WAY WITH SAFETY FENCE.
4. CONSTRUCT IMPROVEMENTS.
5. DEMOBILIZE EQUIPMENT FROM SITE WHILE ADDING TOP SOIL AND SEED TO ALL AREAS DENUDED / DAMAGED BY CONSTRUCTION OPERATIONS.



VICINITY MAP

SCALE: 1" = 3,000'



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 APPLICATION BY:
 HAVERSHAM CLOSE LLC.

SHEET: 12 OF 12
 DATE: MARCH 15, 2022

Virginia Marine Resources Commission
Permit Application 19880819

Printed: Saturday September 5, 2020 10:00 AM



Applicant: Jerry Valianos, et al
4728 Haygood Point Road
Virginia Beach, VA 23454

Application Number:	19880819	Engineer:	Bob Grabb
Application Date:	May 27, 1988	Locality:	Virginia Beach
Permit Type:	VMRC Subaqueous	Waterway:	Ferebee Cove
Permit Status:	Issued	Expiration Date:	August 31, 1991
Wetlands Board Action:	Approval as Modified	Public Hearing Date:	

Project Description: Bulkhead, Dredge

Project Dimensions:

Bulkhead: 230 Linear Feet

Dredging New: 672 Cubic Yards



December 27, 2021

TO: **Steve Ballard**
2393 Haversham Close
Virginia Beach, VA 23454

Attn: Mr. Steve Ballard

RE: Report of Subsurface Exploration and Geotechnical Engineering Services
Ballard Residence Improvements
Virginia Beach, Virginia
G E T Project No: K3215338

Dear Mr. Ballard:

In compliance with your instructions, we have completed our Subsurface Exploration and Geotechnical Engineering Services for the above referenced project. The results of this study, together with our recommendations, are presented in this report.

Often, because of design and construction details that occur on a project, questions arise concerning subsurface conditions. **G E T Solutions, Inc.** would be pleased to continue its role as Geotechnical Engineer during the project implementation.

We appreciate the opportunity to work with you on this project. We trust that the information contained herein meets your immediate need, and should you have any questions or if we could be of further assistance, please do not hesitate to contact us.

Respectfully Submitted,

G E T Solutions, Inc.

A handwritten signature in black ink, appearing to read "Chase Lubecki".

Chase Lubecki
Project Engineer

A handwritten signature in black ink, appearing to read "Bruce Sprio".

Bruce Sprio, P.E.
Principal Engineer
VA Lic. No. 015791



Copies: (1) Client

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EXECUTIVE SUMMARY

The project site is located on the south side of Broad Bay in a residential neighborhood in the City of Virginia Beach, Virginia. The construction will consist of the repair and replacement of an existing bulkhead. In addition, dredging operations are anticipated to be performed on a sandbar located just outside the residential parcel boundaries within Broad Bay.

Our field exploration program included two (2) 40-foot deep Standard Penetration Test (SPT) borings on opposite sides of the length of the inboard side of the existing bulkhead, and one (1) VibraCore in the middle of the outboard side of the existing bulkhead. Also, four (4) four-inch diameter sediment cores at different locations within the proposed dredge area were collected using a VibraCore rig.

The initial groundwater level was measured to occur at depths ranging from 9.0 to 10.0 feet below existing grades at the SPT boring locations. A summary of the subsurface and groundwater conditions encountered at the SPT borings is presented in Section 3 of this report.

The following evaluations and recommendations were developed based on our field exploration and laboratory-testing program:

- A field-testing program during construction is recommended, which should include soil subgrade preparation, including stripping, grading and compaction. Engineering criteria for placement and compaction of approved backfill and structural fill material are provided.
- The shallow subsurface SAND (SC) and CLAY (CL) soils encountered at the boring locations do not appear to meet the criteria recommended in this report for reuse as structural fill. The project's budget should include an allowance for imported structural fill.
- Lateral earth pressure and foundation recommendations are provided in Section 4.3 and Section 4.4, respectively.

This summary briefly discusses some of the major topics mentioned in the attached report. Accordingly, this report should be read in its entirety to thoroughly evaluate the contents.

1.0 PROJECT INFORMATION

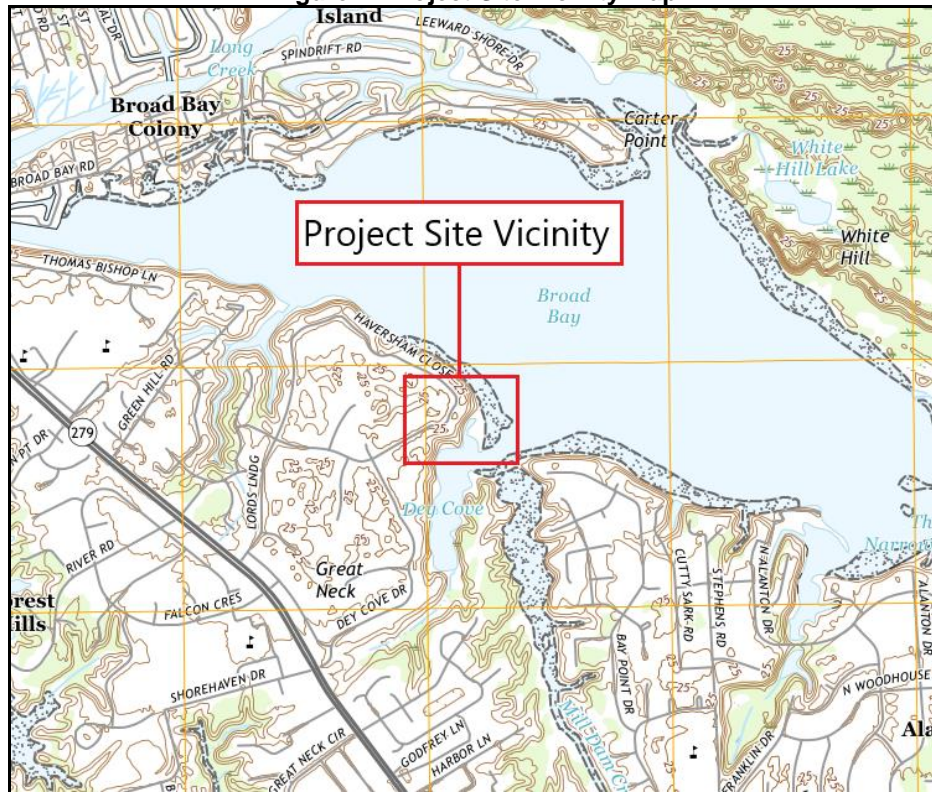
1.1 Project Authorization

G E T Solutions, Inc. has completed our subsurface exploration and geotechnical engineering services for the proposed Ballard Residence Improvements project located in Virginia Beach, Virginia. The geotechnical engineering services were conducted in general accordance with the scope presented in **G E T** Proposal No. PK3215338. Authorization to proceed with our services was received from the client in the form of a signed Agreement for Services form dated November 12, 2021.

1.2 Project Site Location and Description

The project site is located on the south side of Broad Bay. The site is a residential parcel located by the water and has an existing bulkhead between the building and the bay. There is an existing sandbar in the bay area outside the residential parcel boundaries. A project site vicinity map is provided below in Figure 1.

Figure 1: Project Site Vicinity Map



If any of the noted information is incorrect or has changed, please inform **G E T Solutions, Inc.** so that we may amend the recommendations presented in this

report, if appropriate.

1.3 Project Construction Description

The proposed construction consists of the repair and replacement of an existing bulkhead located on the east side of the residential parcel between the existing housing structure and Broad Bay. In addition, a dredging operation will take place to relocate the soils in the vicinity of the sandbar to allow more room for residential vessels to maneuver in the waterways.

1.4 Purpose and Scope of Services

The purpose of this study was to obtain information on the general subsurface conditions at the proposed project site. The subsurface conditions encountered were then evaluated with respect to the available project characteristics. In this regard, engineering assessments for the following items were formulated:

1. General assessment of the soils revealed by the borings performed at the proposed development.
2. General location and description of potentially deleterious material encountered in the borings that may interfere with construction progress or structure performance, including existing fills or surficial/subsurface organics.
3. Soil subgrade preparation, including stripping, grading and compaction. Engineering criteria for placement and compaction of approved backfill and structural fill material.
4. Lateral earth pressure recommendations
5. Results of environmental chemical testing
6. The purpose of the sediment sampling and analysis was to characterize the subaqueous sediment for disposal.

For this project, and at the client's request, **GET Solutions, Inc.** performed the following tasks:

- Contact the local underground utility service company prior to beginning our field services, to identify the location of underground utilities in the work area.
- Two (2) SPT borings performed in accordance with ASTM D 1586 and one (1) VibraCore sample taken in the vicinity of the bulkhead.
- Advanced four (4) four-inch diameter sediment cores at different locations within the proposed dredge area using a VibraCore rig. Sediment samples were collected, screened, composited, and analyzed for the presence and concentrations of select analytes specified in the Whitehurst DMMA User Agreement.

The scope of services did not include an environmental assessment for determining the presence or absence of wetlands or hazardous or toxic material in the soil, bedrock, surface water, groundwater, or air, on or below or around this site.

2.0 FIELD AND LABORATORY PROCEDURES

2.1 Field Exploration

To explore the general subsurface soil types and to aid in developing associated design parameters and recommendations, two (2) 40-foot deep SPT borings (designated as B-01 and B-02) were drilled on opposite ends of the inland side of the existing bulkhead.

Standard Penetration Tests were performed in the field in general accordance with ASTM D 1586. The tests were performed continuously from the existing ground surface to a depth of 12 feet, and at 3-foot intervals thereafter. The soil samples were obtained with a standard 1.4" I.D., 2" O.D., 30" long split-spoon sampler. The sampler was driven with blows of a 140 lb. hammer falling 30 inches, using a safety hammer. The number of blows required to drive the sampler each 6-inch increment of penetration was recorded and is shown on the boring logs. The sum of the second and third penetration increments is termed the SPT N-value (uncorrected for automatic hammer and overburden pressure). A representative portion of each disturbed split-spoon sample was collected with each SPT, placed in a sealed glass jar, and returned to our laboratory for review.

Sediment samples were obtained using a VibraCore rig and using a 4-inch diameter core with an 8-foot length. The core penetrates through the soil using vibration and pulled out when the top of the core reaches the ground surface. The core is then extracted and a representative portion of each disturbed VibraCore sample was collected, placed in a sealed glass jar, and returned to our laboratory for review.

The boring locations were established by the design team and staked in the field by a representative of **G E T Solutions, Inc.** with the use of a hand-held Global Positioning System (GPS) device and by corroborating with easily identifiable landmarks. Upon completion of the soil borings, the holes were backfilled with the soil clippings. Approximate soil boring locations are shown on the attached "Boring Location Plan" (Appendix I) which was determined by the client.

2.2 Field and Laboratory Testing

Soil testing provided by **G E T Solutions, Inc.** was performed in accordance with American Society for Testing and Materials (ASTM) standards. All soils and materials tests were performed in our AASHTO re:source (formally AMRL) and US Army Corps of Engineers certified Virginia Beach laboratory.

Representative portions of all soil samples collected during drilling operations were labeled, preserved and transferred to our laboratory in accordance with ASTM D4220 for classification and analysis. Soil descriptions on the boring logs are provided using visual-manual methods in general accordance with ASTM D2488 using the Unified Soil Classification System (USCS). Soil samples that were selected for index testing were classified in general accordance with ASTM D2487. It should be noted that some variation can be expected between samples classified using the visual-manual procedure (ASTM D2488) and the USCS (ASTM D2487). A summary of the soil classification system is provided in Appendix II.

Representative split-spoon soil samples were selected and subjected to natural moisture, #200 sieve wash, and Atterberg Limits testing to corroborate the visual classification. These test results are presented in Appendix III and on the soil test boring logs provided in Appendix IV. The generalized subsurface soil profiles are provided in Appendix V.

2.3 Environmental Methods of Investigation

Sediment Sampling

GET mobilized to the Site on December 1, 2021 to conduct sampling activities. Five (5) sediment cores were collected to a depth of 8.0 feet below the mudline within the project limits using VibraCore-D Technology. The Sediment borings was identified as VB-1 through VB-5. The borings were advanced using a VibraCore-D® rig. Nathan Hahn of GET was present to observe the core installation and log the physical characteristics of the sample.

The VibraCore sediment samples were collected continuously to the bottom of the core tube by vertically vibrating a liner-less 4-inch diameter certified clean aluminum core tube. The core tube was vibrated at a sufficient frequency to liquefy water saturated sediments allowing the core tube to progress into the sediment to the desired depth. After the core tube reached the desired depth, the vibration action was turned off and the core tube containing the relatively undisturbed sediment sample was extracted from the VibraCore hole via a vertical steel cable. A clean, stainless steel push rod was used to extract the sediment sample onto a clean plastic sample tray. The sediment column was observed for classification and physical observation.

One representative composite sample was created from each of the VibraCore sediment cores and placed into laboratory certified clean septum-capped jars and submitted under chain-of-custody protocol to Pace Analytical, Inc., of Huntersville, North Carolina.

Decontamination

Prior to commencement of VibraCore activities and following completion of each core, all re-usable sampling tools were thoroughly decontaminated with an Alconox solution followed by a potable water rinse.

Chemical Analyses

The composite sediment samples were analyzed for the presence and concentrations of the following analytes: total petroleum hydrocarbons (TPH)-gasoline and diesel range organics via EPA Method 8015C, polychlorinated biphenyls (PCBs) via EPA Method 8082A, total Benzene, Toluene, Ethylbenzene and Xylenes (BTEX) via EPA Method 8260B and toxicity characteristic leaching procedure (TCLP)-RCRA-8 Metals via EPA Method 1311/6000-7000 Series. The analytical methods employed are in conformance with the most recent U.S. EPA Protocol SW846 - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," Third Edition, November 1986, and its updates. The contract laboratory is certified under the NELAP and VELAP Programs. The chemical laboratory results are included in Appendix VI.

3.0 SITE AND SUBSURFACE CONDITIONS

3.1 Site Geology

The project site lies within a major physiographic province called the Atlantic Coastal Plain. Numerous transgressions and regressions of the Atlantic Ocean have deposited marine, lagoonal, and fluvial (stream lain) sediments. The regional geology is very complex, and generally consists of interbedded layers of varying mixtures of sands, silts, and clays. Based on our review of existing geologic and soil boring data, the geologic stratigraphy encountered in our subsurface explorations generally consisted of marine deposited Sands and Silts as well as man-placed Sands.

3.2 Recent Land Reclamation and Site Development

Based on a review of historical United States Geological Survey (USGS) topographic maps of Virginia Beach, Virginia produced between the years of 1918 and 2019, the project site does not appear to be located within an a previously reclaimed area.

3.3 Subsurface Soil Conditions

A brief description of the subsurface soil conditions encountered at the SPT boring locations is presented in Table III below.

Table III – Subsurface Soil Conditions

Average Depth (ft)	Stratum	Description	Ranges of SPT ⁽¹⁾ N-Values
0 to 0.5	Surficial	➤ 6-inches of Topsoil	-
0.3 to 2	FILL	➤ FILL, SAND (SC) with trace fibrous organic matter	6 – 9
2 to 6 – 6.5	I	➤ Low Plasticity Lean CLAY (CL) with trace fibrous organic matter	0 – 5
6 – 6.5 to 40	II	➤ SAND (SM, SP-SM) with trace to few fibrous organic matter to approximately 10-feet in depth	5 - 23

Note: (1) SPT = Standard Penetration Test, N-Values in Blows-per-foot (uncorrected)

A brief description of the subsurface soil conditions encountered at the VibraCore locations is presented in Table IV below.

Table IV – Subsurface Soil Conditions – VibraCore Samples

Average Depth (ft)	Stratum	Description	Ranges of Recovery (ft)
0 to 2 – 3.5	Water Depth	➤ 2 to 2.5 feet of water above ground surface	-
2 – 3.5 to 10 – 11.5	I	➤ SAND (SC, SM, SP-SM, SP) with varying amount of marine shell fragments ○ Clay encountered in the upper 2 feet of VB-05	4.5 – 6

The subsurface descriptions are of a generalized nature provided to highlight the major soil strata encountered. The records of the subsurface exploration are included in Appendix IV (Boring Log sheets) and in Appendix V (Generalized Soil Profiles) which should be reviewed for specific information as to the individual borings. The stratifications shown on the records of the subsurface exploration represent the conditions only at the actual boring locations. Variations may occur and should be expected between boring locations. The stratifications represent the approximate boundary between subsurface materials and the transition may be gradual. It is noted that the “Topsoil” designation references the presence of surficial organic laden soil and does not represent any particular quality specification. It is recommended that this material be tested for approval prior to use as topsoil.

Water depths in the locations of the VibraCore borings ranged from 2.5 to 3.5 feet. Based upon observations within the cores, the encountered sediments typically consisted of varying degrees of organic matter including decayed vegetative debris, shells, and marine crustaceans. None of the collected sediment samples during this study were observed to contain visual or olfactory evidence of chemical impact.

3.4 Groundwater Discussion

The initial groundwater table level was recorded at the SPT boring locations and as observed through the relative wetness of the recovered soil samples during the drilling operations. The initial groundwater table was measured to occur at depths ranging from 8 to 10 feet below existing grades at the boring locations. The boreholes were backfilled upon completion with the soil spoils and cuttings for safety considerations.

The soils encountered within the borings at the presumed groundwater levels consisted of relatively permeable granular soils; thus, drilling fluids (water and bentonite) were introduced into the boreholes during the drilling operations to prevent cave-ins from occurring, impairing the ability to accurately determine the groundwater levels. Therefore, the reported initial groundwater levels may not be indicative of the static groundwater level.

Groundwater conditions will vary with environmental variations and seasonal conditions, such as the frequency and magnitude of rainfall patterns, as well as man-made influences, such as existing swales, drainage ponds, underdrains, and areas of covered soil (paved parking lots, sidewalks, etc.). Seasonal groundwater fluctuations of ± 2 feet are common in the project's area; however, greater fluctuations have been documented.

We recommend that the contractor determine the actual groundwater levels at the time of the construction to determine groundwater impact on the construction procedures.

4.0 EVALUATIONS AND RECOMMENDATIONS

Our recommendations are based on the previously discussed project information, our interpretation of the soil test borings and laboratory data, and our observations during our site reconnaissance. If the proposed construction should vary from what was described, we request the opportunity to review our recommendations and make any necessary changes.

4.1 Structural Fill and Placement

Any material to be used for structural fill should be evaluated and tested by **G E T Solutions, Inc.** prior to placement to determine if they are suitable for the intended use. Suitable structural fill material should consist of sand or gravel containing less than 20% by weight of fines (SP, SM, SW, GP, GW), having a liquid limit less than 20 and plastic limit less than 6, and should be free of rubble, organics, clay, debris, and other unsuitable material.

All structural fill should be compacted to a dry density of at least 98% of the Standard Proctor maximum dry density (ASTM D 698) unless specified differently in this report. In general, the compaction should be accomplished by placing the fill in maximum 10-inch loose lifts and mechanically compacting each lift to at least the specified minimum dry density. A representative of **G E T Solutions, Inc.** should perform field density tests on each lift as necessary to assure that adequate compaction is achieved.

Backfill material in utility trenches within the construction areas should consist of structural fill (as described above) and should be compacted to at least 98% of ASTM D 698. This fill should be placed in 4 to 6-inch loose lifts when hand compaction equipment is used.

Care should be used when operating the compactors near existing structures to avoid transmission of the vibrations that could cause settlement damage or disturb occupants. In this regard, it is recommended that the vibratory roller remain at least 25 feet away from existing structures; these areas should be compacted with small, hand-operated compaction equipment.

4.2 Suitability of On-Site Soils

Based on the laboratory testing program, the shallow subsurface soils classified as Lean CLAY (CL) and Clayey SAND (SC), do not appear to meet the criteria recommended in this report for reuse as structural fill; however, these soils may be used as fill in green areas.

It is feasible to reuse the shallow subsurface soils classified as SAND (SP, SP-SM, SM); however, they must be segregated from the cohesive soils (SC, CL). Significant moisture manipulation is expected as some of these soils are located near or below the groundwater table. This manipulation will likely require stockpiling of wet soils and/or placing the material in thin layers. The goal of these methods is to dry the soils to within ± 2 percentage points of their

optimum moisture at the time of compaction which could prove time consuming and cost prohibitive.

Further classification testing (natural moisture content, gradation analysis, and Proctor testing) should be performed in the field during construction to evaluate the suitability of excavated soils for reuse as structural fill. The project’s budget should include an allowance for imported structural fill.

4.2.1 Environmental Discussion

Five composite sediment samples VB-1 through VB-5 were created from each of the five borings and submitted for chemical analysis. A summary of sediment analytical data is presented in Table V on the following page. The composite samples did not produce concentrations of the analytes above the laboratory’s method detection limits specific for those analytes.

Table V – Composite Sediment Sample Analytical Results

Composite Sample ID	Sample Depth (ft)	TPH-DRO/GRO Method 8015C (mg/Kg)	PCBs Method 8082 (µg/Kg)	BTEX Method 8260B (µg/Kg)	TCLP-RCRA-8 Metals Above Laboratory Detection Limits (mg/L)
VB-01	6.0-ft. below mud line	ND/ND	ND	ND	ND
VB-02	6.0-ft. below mud line	ND/ND	ND	ND	ND
VB-03	6.0-ft. below mud line	ND/ND	ND	ND	ND
VB-04	6.0-ft. below mud line	ND/ND	ND	ND	ND
VB-05	6.0-ft. below mud line	ND/ND	ND	ND	ND

Note: ND – Below the Laboratory Method Detection Limit
 mg/Kg – Milligrams/Kilogram or parts per million
 µg/Kg = Micrograms/Liter or parts per billion
 mg/L = Milligrams/Liter

Based upon the analytical results, the sediments within the study area are not considered hazardous for disposal purposes and do not exceed the disposal criteria of the Whitehurst DMMA. It is **GET Solution, Inc.’s** opinion that further environmental testing and analysis is not warranted for the study area at this time.

4.3 Design Recommendations – Below-Grade Construction

4.3.1 Site Preparation

The proposed utility alignment should be cleared by means of removing the natural soils and any other unsuitable material prior to open cut excavation. These cuts are expected to extend

deeper in isolated areas to remove deeper deposits of topsoil material or unsuitable soils, which become evident during the clearing. It is recommended that the clearing operations extend laterally at least 5 feet beyond the perimeter of the proposed construction area. Any materials anticipated to be reused will require approval.

4.3.2 Anticipated Excavation Characteristics

Based on the results of this exploration, varying soil conditions and compositions are expected to be encountered throughout the project limits. Open-cut excavations will extend through Fill material and natural soils that are considered to be relatively "clean" (i.e., soil that is relatively free of deleterious debris that may hinder excavation or installation). Debris typically considered unsuitable consist of wood, glass, organics, plastics, coal, brick, or any other material larger than 2 inches in diameter. Based on these characteristics it is anticipated that some of the Fill materials encountered within the construction area may be reusable as backfill. Soils containing appreciable amounts of deleterious debris should be discarded; however, an effort may be made during excavation to segregate potentially suitable in-situ fill soils for reuse if desired. Further information pertaining to backfill criteria is provided in Section 4.2.

4.3.3 Excavation Stability

The shallow subsurface soils within the project limits are comprised of granular and cohesive soils; however, the Contractor should anticipate these soils to have relatively little cohesion and have a high potential for caving. Additionally, water seepage at varying elevations should be expected within the side walls of the open cut areas, increasing the potential for caving. Based on these mentioned characteristics, it is recommended that all subsurface soils be considered Type C in accordance with Occupational Safety and Health Administration (OSHA) criteria.

Temporary Slopes

Temporary slopes may not be a feasible option. The Contractor should be aware that temporary slope height, slope inclination, or excavation depths should in no case exceed those specified in local, state and/or federal safety regulations (e.g. OSHA Safety and Health Regulations for Construction, 29 CFR Part 1926, or successor regulations). Where temporary slopes are not feasible, shoring by means of sheeting and/or trench shields may be appropriate. Where the stability of adjoining structures, pavements, or other improvements is endangered by excavation operations, support systems such as shoring, bracing, or underpinning may be required to provide structural stability. Shoring, bracing, or underpinning required for this project (if required) should be designed by a professional engineer.

Shoring

Shoring design and installation should be the responsibility of the Contractor. Shoring systems required for this project should be designed by a professional engineer. Shoring systems should be designed to provide positive restraint of trench walls in an effort to protect against lateral deformation that may result in ground cracks, settlement, and/or other ground movements that may affect adjacent underground utilities and pavements as well as surface improvements. The Contractor should be made aware of this potential condition in order that preventative measures can be implemented or repair measures provided for.

Depending on the shoring system used, the removal process may create voids along the walls of the excavations. If these voids are left in place and are significant, backfill and/or the retained

soil may shift laterally resulting in settlement of overlying structures/pavements. As such, care should be taken to remove the shoring systems and backfill the trenches in a manner as to not create these voids.

In all cases, the Contractor should select an excavation and/or shoring scheme that will protect adjacent and overlying improvements, including below grade utilities.

4.3.4 Dewatering

It is expected that dewatering will be required for excavations that extend near or below the existing groundwater table. Dewatering above the groundwater level could probably be accomplished by pumping from sumps. Dewatering at depths below the groundwater level will require well pointing and shoring. Since temporary dewatering will impact construction and be dependent on construction methods and scheduling, we recommend the Contractor be solely responsible for the design, installation, maintenance, and performance of all temporary dewatering systems. Where shoring is employed, the dewatering system should be compatible with the type of shoring to be used. We recommend the Contractor verify groundwater conditions and evaluate dewatering requirements prior to construction.

Lowering the groundwater table during dewatering activities will result in an increase in effective stresses and may induce settlements of the soils underlying adjacent structures/pavements. Additionally, hydraulic compaction of predominately granular soils (e.g. SP, SP-SM, SM soils) should be anticipated as a result of lowering the groundwater table. It may be advantageous to install ground surface settlement monuments and subsurface settlement monitors in areas along the alignment where dewatering by means of well pointing is required.

4.4 Below Grade Soil Parameters – Bulkhead Location

To reduce the magnitude of lateral loads being applied to below grade walls and to promote positive water drainage, it is recommended that a granular backfill be placed directly behind the walls and extend laterally back from the walls a minimum distance of five feet. These granular soils should be a relatively clean, free draining granular material (Sand) classified as SP-SM or better, containing less than 12 percent passing the No. 200 sieve (0.074mm). Water accumulated in these soils should be drained either by sumps or daylighting; otherwise, the walls should be sized with considerations given to the hydrostatic pressures occurring at or near current grades. The compaction of the select backfill soils behind the walls should be 95 percent of the Standard Proctor maximum dry density (ASTM D698). The soils in this zone should not be over-compacted. To minimize the potential for wall damage due to excessive compaction, hand operated mechanical tampers should be used to compact the granular materials. Heavy compaction equipment should not be allowed within five feet of the retaining walls.

Regarding the bulkhead's ability to resist lateral earth and hydrostatic pressures, the estimated soil parameters presented in Table VI can be used on the following page.

Table VI - Below Grade Estimated Soil Parameters

Stratum	Structural Fill and Natural SAND	I	II
Depth	0 – 2 (Backfill)	2 – 7	7 – 40
Soil Type	-	SC, CL	SP-SM, SM
Average N-Value	-	3	9
Estimated Moist Unit Weight (pcf)	115	110	120
Estimated Saturated Unit Weight (pcf)	125	120	130
Estimated Buoyant Unit Weight (pcf)	63	58	68
Friction Angle (ϕ), degrees	32	10	34
Cohesion (c), psf	0	500	0
Active Soil Pressure, K_a	0.31	0.70	0.28
At-Rest Soil Pressure, K_o	0.47	0.83	0.44
Passive Soil Pressure, K_p	3.25	1.42	3.53

5.0 REPORT LIMITATIONS

The recommendations submitted are based on the available soil information obtained by **G E T Solutions, Inc.** and the information supplied by the client and their designated agents for the proposed project. If there are any revisions to the plans for this project or if deviations from the subsurface conditions noted in this report are encountered during construction, **G E T Solutions, Inc.** should be notified immediately to determine if changes in the recommendations are required. If **G E T Solutions, Inc.** is not retained to perform these functions, **G E T Solutions, Inc.** can not be responsible for the impact of those conditions on the geotechnical recommendations for the project.

The Geotechnical Engineer warrants that the findings, recommendations, specifications, or professional advice contained herein have been made in accordance with generally accepted professional geotechnical engineering practices in the local area. No other warranties are implied or expressed.

After the plans and specifications are more complete, the Geotechnical Engineer should be provided the opportunity to review the final design plans and specifications to make sure our engineering recommendations have been properly incorporated into the design documents, in order that the earthwork and foundation recommendations may be properly interpreted and implemented. At that time, it may be necessary to submit supplementary recommendations.

This report has been prepared for the exclusive use of the client and their designated agents for the specific application to the proposed Ballard Residence Improvements project in Virginia Beach, Virginia.

APPENDICES

APPENDIX I	BORING LOCATION PLAN
APPENDIX II	CLASSIFICATION SYSTEM FOR SOIL EXPLORATION
APPENDIX III	SUMMARY OF LABORATORY CLASSIFICATION RESULTS
APPENDIX IV	BORING LOGS
APPENDIX V	GENERALIZED SOIL PROFILES
APPENDIX VI	ENVIRONMENTAL RESULTS

APPENDIX I

BORING LOCATION PLAN



Boring Location Plan

PROJECT: Ballard Residence Home Improvements
Virginia Beach, Virginia
PROJECT NO: K3215338
CLIENT: Stephen Ballard



APPENDIX II

CLASSIFICATION SYSTEM FOR SOIL EXPLORATION



Virginia Beach
 5465 Greenwich Road
 Virginia Beach, VA 23462
 (757) 518-1703

Williamsburg
 701 Alexander Lee Parkway
 Williamsburg, Virginia 23185
 (757) 564-6452

CLASSIFICATION SYSTEM FOR SOIL EXPLORATION

Standard Penetration Test (SPT), N-value

Standard Penetration Tests (SPT) were performed in the field in general accordance with ASTM D 1586. The soil samples were obtained with a standard 1.4" I.D., 2" O.D., 30" long split-spoon sampler. The sampler was driven with blows of a 140 lb. hammer falling 30 inches. The number of blows required to drive the sampler each 6-inch increment (4 increments for each soil sample) of penetration was recorded and is shown on the boring logs. The sum of the second and third penetration increments is termed the SPT N-value.

NON COHESIVE SOILS

(SILT, SAND, GRAVEL and Combinations)

Relative Density

Very Loose	4 blows/ft. or less
Loose	5 to 10 blows/ft.
Medium Dense	11 to 30 blows/ft.
Dense	31 to 50 blows/ft.
Very Dense	51 blows/ft. or more

Particle Size Identification

Boulders	8 inch diameter or more
Cobbles	3 to 8 inch diameter
Gravel	Coarse 1 to 3 inch diameter
	Medium 1/2 to 1 inch diameter
	Fine 1/4 to 1/2 inch diameter
Sand	Coarse 2.00 mm to 1/4 inch (diameter of pencil lead)
	Medium 0.42 to 2.00 mm (diameter of broom straw)
	Fine 0.074 to 0.42 mm (diameter of human hair)
Silt	0.002 to 0.074 mm (cannot see particles)

CLASSIFICATION SYMBOLS (ASTM D 2487 and D 2488)

Coarse Grained Soils

More than 50% retained on No. 200 sieve

- GW** - Well-graded Gravel
- GP** - Poorly graded Gravel
- GW-GM** - Well-graded Gravel w/Silt
- GW-GC** - Well-graded Gravel w/Clay
- GP-GM** - Poorly graded Gravel w/Silt
- GP-GC** - Poorly graded Gravel w/Clay
- GM** - Silty Gravel
- GC** - Clayey Gravel
- GC-GM** - Silty, Clayey Gravel
- SW** - Well-graded Sand
- SP** - Poorly graded Sand
- SW-SM** - Well-graded Sand w/Silt
- SW-SC** - Well-graded Sand w/Clay
- SP-SM** - Poorly graded Sand w/Silt
- SP-SC** - Poorly graded Sand w/Clay
- SM** - Silty Sand
- SC** - Clayey Sand
- SC-SM** - Silty, Clayey Sand

Fine-Grained Soils

50% or more passes the No. 200 sieve

- CL** - Lean Clay
- CL-ML** - Silty Clay
- ML** - Silt
- OL** - Organic Clay/Silt
Liquid Limit 50% or greater
- CH** - Fat Clay
- MH** - Elastic Silt
- OH** - Organic Clay/Silt

Highly Organic Soils

- PT** - Peat

COHESIVE SOILS

(CLAY, SILT and Combinations)

Consistency

Very Soft	2 blows/ft. or less
Soft	3 to 4 blows/ft.
Medium Stiff	5 to 8 blows/ft.
Stiff	9 to 15 blows/ft.
Very Stiff	16 to 30 blows/ft.
Hard	31 blows/ft. or more

Relative Proportions

Descriptive Term	Percent
Trace	0-5
Few	5-10
Little	15-25
Some	30-45
Mostly	50-100

Strata Changes

In the column "Description" on the boring log, the horizontal lines represent approximate strata changes.

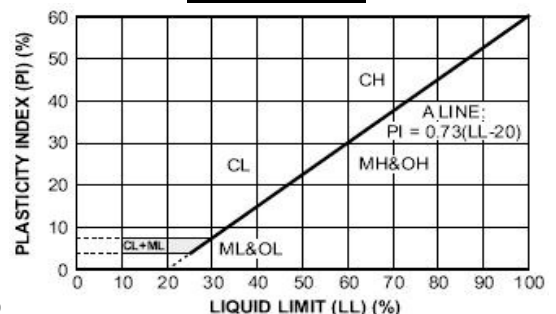
Groundwater Readings

Groundwater conditions will vary with environmental variations and seasonal conditions, such as the frequency and magnitude of rainfall patterns, as well as tidal influences and man-made influences, such as existing swales, drainage ponds, underdrains and areas of covered soil (paved parking lots, side walks, etc.).

Depending on percentage of fines (fraction smaller than No. 200 sieve size), coarse-grained soils are classified as follows:

Less than 5 percent	GW, GP, SW, SP
More than 12 percent	GM, GC, SM, SC
5 to 12 percent	Borderline cases requiring dual symbols

Plasticity Chart



APPENDIX III

SUMMARY OF LABORATORY CLASSIFICATION RESULTS



GET Solutions Inc.

SUMMARY OF LABORATORY RESULTS

PAGE 1 OF 1

CLIENT Steve Ballard

PROJECT NAME Ballard Residence Improvements

PROJECT NUMBER K3215338

PROJECT LOCATION Virginia Beach, Virginia

(1) GET - LABORATORY TEST SUMMARY - GET_STANDARD_DATA_TEMPLATE(03-17-14).GDT - 12/23/21 10:55 - N:\GETLEGACY\GET_VABIGINT\PROJECTS\VB21\K3215338 - BALLARD RESIDENCE HOME IMPROVEMENTS.GPJ

Borehole	Depth	Liquid Limit <small>VTM-7 AASHTO T-89 & T-90</small>	Plastic Limit <small>VTM-7 AASHTO T-89 & T-90</small>	Plasticity Index <small>VTM-7 AASHTO T-89 & T-90</small>	Maximum Size (mm)	%<#200 Sieve <small>VTM-25 AASHTO T-27 & T-88</small>	Classification	Water Content (%) <small>AASHTO T-265</small>	Dry Density (pcf)	Saturation (%)	Void Ratio
B-01	3.0	28	12	16	0.075	68	CL	19.1			
B-01	9.0	NP	NP	NP	4.75	8	SP-SM	24.9			
B-01	14.0	NP	NP	NP	4.75	9	SP-SM	23.2			
B-01	24.0	NP	NP	NP	4.75	9	SP-SM	23.6			
B-02	1.0	23	11	12	0.075	39	SC	11.7			
B-02	5.0	24	13	11	0.075	66	CL	20.4			
B-02	9.0	NP	NP	NP	4.75	12	SM	20.2			
B-02	11.0	NP	NP	NP	4.75	8	SP-SM	22.7			
B-02	19.0	NP	NP	NP	4.75	7	SP-SM	18.5			
B-02	34.0	NP	NP	NP	4.75	13	SM	17.6			

APPENDIX IV

BORING LOGS



RECORD OF SUBSURFACE EXPLORATION

Virginia Beach: 5465 Greenwich Road, Virginia Beach, VA 23642, 757-518-1703
 Williamsburg: 1592-E Penniman Road, Williamsburg, VA 23185, 757-564-6452
 Elizabeth City: 106 Capital Trace Unit E, Elizabeth City, NC 27909, 252-335-9765
 Jacksonville: 415-A Western Blvd, Jacksonville, NC 28546, 910-478-9915

BORING ID B-01

PROJECT NAME: **Ballard Residence Improvements**
 CLIENT: **Steve Ballard**
 PROJECT LOCATION: **Virginia Beach, Virginia**
 BORING COORDINATES: **EAST: -76.04210414 NORTH: 36.89512352**
 DRILLING METHOD(S): **Rotary wash "mud"**
 GROUNDWATER*: INITIAL (ft) ∇ : **8** AFTER _____ HOURS (ft) ∇ : _____ CAVE-IN (ft) \ominus : _____
The initial groundwater readings are not intended to indicate the static groundwater level.

PROJECT NUMBER: **K3215338**
 SURFACE ELEVATION (NAVD88) (ft): _____
 LOGGED BY: **Chase Lubecki, EIT**
 DATE STARTED: **11/24/2021**
 DATE COMPLETED: **11/24/2021**
 DRILLER: **GET Solutions, Inc.**

Elevation (ft)	Depth (ft)	STRATA DESCRIPTION	Strata Legend	Sample ID	Sample Type	Sample Recovery (in.)	Blow Counts (N-Values)	% <#200	TEST RESULTS	
									Plastic Limit X	Liquid Limit X
0.5		6-inches of Topsoil		1	8	1-2-4-3 (6)				
2.0		FILL, Dark brown, fine, CLAYEY SAND, contains fibrous organic matter, loose, moist (SC)		2	8	2-1-2-1 (3)		68	X	X
5		Gray mottled brown to dark gray, LEAN CLAY, contains trace fibrous organic matter, soft to medium stiff, moist (CL) (Trace gravel in the 4 to 6 foot sample)		3	10	1-3-2-1 (5)				
6.0		Dark brown, fine to medium, SILTY SAND, contains few organic matter, loose, moist (SM)		4	18	2-3-4-7 (7)				
8.0		Gray to light brown, fine to medium, POORLY GRADED SAND WITH SILT, very loose to medium dense, moist to wet (SP-SM) (Contains trace fibrous organic matter in the 10- to 12-foot sample)		5	20	5-8-8-9 (16)		8	X	
				6	24	5-7-6-8 (13)				
				7	24	4-6-7-5 (13)		9	X	
				8	24	4-4-4-6 (8)				
				9	24	2-2-2-3 (4)		9	X	
				10	24	5-4-5-6 (9)				
31.5		Gray to gray mottled brown, fine to medium, SILTY SAND, medium dense, wet (SM)		11	24	2-8-15-20 (23)				
		(Contains pockets of Clay in the 38- to 40-foot sample)		12	24	9-7-11-15 (18)				
40.0		Boring terminated at 40 feet below existing grade.								

This information pertains only to this boring and should not be interpreted as being indicative of the site.

Sample Type(s): SS - Split Spoon

Notes: See boring location plan.



RECORD OF SUBSURFACE EXPLORATION

Virginia Beach 5465 Greenwich Road Virginia Beach, VA 23642 757-518-1703
 Williamsburg 1592-E Penniman Road Williamsburg, VA 23185 757-564-6452
 Elizabeth City 106 Capital Trace Unit E Elizabeth City, NC 27909 252-335-9765
 Jacksonville 415-A Western Blvd Jacksonville, NC 28546 910-478-9915

BORING ID B-02

PROJECT NAME: **Ballard Residence Improvements**
 CLIENT: **Steve Ballard**
 PROJECT LOCATION: **Virginia Beach, Virginia**
 BORING COORDINATES: **EAST: -76.0420319 NORTH: 36.89525044**
 DRILLING METHOD(S): **Rotary wash "mud"**
 GROUNDWATER*: INITIAL (ft) ∇: **10** AFTER _____ HOURS (ft) ▼: _____ CAVE-IN (ft) Ⓞ: _____
The initial groundwater readings are not intended to indicate the static groundwater level.

PROJECT NUMBER: **K3215338**
 SURFACE ELEVATION (NAVD88) (ft): _____
 LOGGED BY: **Chase Lubecki, EIT**
 DATE STARTED: **11/24/2021**
 DATE COMPLETED: **11/24/2021**
 DRILLER: **GET Solutions, Inc.**

Elevation (ft)	Depth (ft)	STRATA DESCRIPTION	Strata Legend	Sample ID	Sample Type	Sample Recovery (in.)	Blow Counts (N-Values)	% <#200	TEST RESULTS	
									Plastic Limit X	Liquid Limit X
0.5		6-inches of Topsoil		1	8	1-4-5-6 (9)	39			
2.0		FILL, Dark brown, fine, CLAYEY SAND, contains fibrous organic matter, loose, moist (SC)		2	8	2-3-2-3 (5)				
		Gray mottled brown to dark gray, LEAN CLAY, contains fibrous organic matter, very soft to medium stiff, moist (CL)		3	10	0-0-0-0 (0)	66			
6.5		Gray to dark brown, fine to medium, SILTY SAND, loose, moist (SM)		4	10	0-3-2-5 (5)				
		(Contains trace fibrous organic matter in the 8- to 10-foot sample)		5	12	2-3-3-7 (6)	12			
10.0		Light brown to gray, fine to medium, POORLY GRADED SAND WITH SILT, loose to medium dense, wet (SP-SM)		6	20	2-4-5-6 (9)	8			
				7	20	3-3-3-3 (6)				
		(Few clay in the 18- to 20-foot sample)		8	24	3-3-6-1 (9)	7			
				9	12	4-5-3-4 (8)				
26.5		Gray to gray mottled brown, fine, SILTY SAND, medium dense, wet (SM)		10	24	5-7-8-14 (15)				
				11	24	9-6-10-15 (16)	13			
36.5		Gray mottled brown, fine, POORLY GRADED SAND WITH SILT, loose, wet (SP-SM)		12	24	2-3-3-2 (6)				
40.0		Boring terminated at 40 feet below existing grade.								

This information pertains only to this boring and should not be interpreted as being indicative of the site.

Sample Type(s): SS - Split Spoon

Notes: See boring location plan.



RECORD OF SUBSURFACE EXPLORATION

Virginia Beach: 5465 Greenwich Road, Virginia Beach, VA 23642, 757-518-1703
 Williamsburg: 1592-E Penniman Road, Williamsburg, VA 23185, 757-564-6452
 Elizabeth City: 106 Capital Trace Unit E, Elizabeth City, NC 27909, 252-335-9765
 Jacksonville: 415-A Western Blvd, Jacksonville, NC 28546, 910-478-9915

BORING ID VB-01

PROJECT NAME: Ballard Residence Improvements PROJECT NUMBER: K3215338
 CLIENT: Steve Ballard SURFACE ELEVATION (NAVD88) (ft): _____
 PROJECT LOCATION: Virginia Beach, Virginia LOGGED BY: Chase Lubecki, EIT
 BORING COORDINATES: EAST: -76.04126792 NORTH: 36.8939363 DATE STARTED: 12/1/2021
 DRILLING METHOD(S): Vibracore DATE COMPLETED: 12/1/2021
 GROUNDWATER*: INITIAL (ft) ∇ : 0 AFTER _____ HOURS (ft) ∇ : _____ CAVE-IN (ft) \ominus : _____ DRILLER: GET Solutions, Inc.
The initial groundwater readings are not intended to indicate the static groundwater level.

Elevation (ft)	Depth (ft)	STRATA DESCRIPTION	Strata Legend	Sample ID	Sample Type	Sample Recovery (in.)	Blow Counts (N-Values)	% <#200	TEST RESULTS	
									Plastic Limit X	Liquid Limit X
	2.0	Gray, fine to coarse, POORLY GRADED SAND, contains fibrous organic matter, wet (SP)		1	○					
	4.0	Dark gray to brown, fine to medium, POORLY GRADED SAND WITH SILT, contains marine shell fragments, wet (SP-SM) (Contains marine shell fragments from 4 to 6 feet)		2	○	72				
	8.0	(Contains few organics from 7 to 8 feet) (No recovery from 8 to 10 feet)								
	10.0	Boring terminated at 10 feet below existing grade.								

This information pertains only to this boring and should not be interpreted as being indicative of the site.

Sample Type(s):
 NR - No Recovery
 T - Thin Wall Tube

Notes: See boring location plan.



RECORD OF SUBSURFACE EXPLORATION

Virginia Beach: 5465 Greenwich Road, Virginia Beach, VA 23642, 757-518-1703
 Williamsburg: 1592-E Penniman Road, Williamsburg, VA 23185, 757-564-6452
 Elizabeth City: 106 Capital Trace Unit E, Elizabeth City, NC 27909, 252-335-9765
 Jacksonville: 415-A Western Blvd, Jacksonville, NC 28546, 910-478-9915

BORING ID VB-02

PROJECT NAME: Ballard Residence Improvements PROJECT NUMBER: K3215338
 CLIENT: Steve Ballard SURFACE ELEVATION (NAVD88) (ft): _____
 PROJECT LOCATION: Virginia Beach, Virginia LOGGED BY: Chase Lubecki, EIT
 BORING COORDINATES: EAST: -76.0413495 NORTH: 36.8946905 DATE STARTED: 12/1/2021
 DRILLING METHOD(S): Vibracore DATE COMPLETED: 12/1/2021
 GROUNDWATER*: INITIAL (ft) ∇ : 0 AFTER _____ HOURS (ft) ∇ : _____ CAVE-IN (ft) \ominus : _____ DRILLER: GET Solutions, Inc.
The initial groundwater readings are not intended to indicate the static groundwater level.

Elevation (ft)	Depth (ft)	STRATA DESCRIPTION	Strata Legend	Sample ID	Sample Type	Sample Recovery (in.)	Blow Counts (N-Values)	% <#200	TEST RESULTS	
									Plastic Limit X	Liquid Limit X
	2.5	Gray, fine to medium, POORLY GRADED SAND, wet (SP) (Contains marine shell fragments from 2.5 to 4.5 feet)		1	○					
	5			2	●	54				
	7.0	(No recovery from 7 to 10.5 feet)								
	10	Boring terminated at 10.5 feet below existing grade.								
	10.5									

This information pertains only to this boring and should not be interpreted as being indicative of the site.

Sample Type(s):
 NR - No Recovery
 T - Thin Wall Tube

Notes: See boring location plan.



RECORD OF SUBSURFACE EXPLORATION

BORING ID VB-03

Virginia Beach: 5465 Greenwich Road, Virginia Beach, VA 23642, 757-518-1703
 Williamsburg: 1592-E Penniman Road, Williamsburg, VA 23185, 757-564-6452
 Elizabeth City: 106 Capital Trace Unit E, Elizabeth City, NC 27909, 252-335-9765
 Jacksonville: 415-A Western Blvd, Jacksonville, NC 28546, 910-478-9915

PROJECT NAME: **Ballard Residence Improvements** PROJECT NUMBER: **K3215338**
 CLIENT: **Steve Ballard** SURFACE ELEVATION (NAVD88) (ft): _____
 PROJECT LOCATION: **Virginia Beach, Virginia** LOGGED BY: **Chase Lubecki, EIT**
 BORING COORDINATES: **EAST: -76.04159487 NORTH: 36.89490398** DATE STARTED: **12/1/2021**
 DRILLING METHOD(S): **Vibracore** DATE COMPLETED: **12/1/2021**
 GROUNDWATER*: INITIAL (ft) ∇ : **0** AFTER _____ HOURS (ft) ∇ : _____ CAVE-IN (ft) \ominus : _____ DRILLER: **GET Solutions, Inc.**
The initial groundwater readings are not intended to indicate the static groundwater level.

Elevation (ft)	Depth (ft)	STRATA DESCRIPTION	Strata Legend	Sample ID	Sample Type	Sample Recovery (in.)	Blow Counts (N-Values)	% <#200	TEST RESULTS	
									Plastic Limit X	Liquid Limit X
	1.3	Dark gray, fine to medium, CLAYEY SAND, contains marine shell fragments, wet (SC)		1						
	3.3	Brown, fine to medium, POORLY GRADED SAND, contains fibrous organic matter, wet (SP) (Few clay from 3.25 to 4.25 feet)								
	5									
	5.8	(No recovery from 5.75 to 9.25 feet)		2		54				
	9.3	Boring terminated at 9.25 feet below existing grade.								

This information pertains only to this boring and should not be interpreted as being indicative of the site.

Sample Type(s):
 NR - No Recovery
 T - Thin Wall Tube

Notes: See boring location plan.



RECORD OF SUBSURFACE EXPLORATION

Virginia Beach: 5465 Greenwich Road, Virginia Beach, VA 23642, 757-518-1703
 Williamsburg: 1592-E Penniman Road, Williamsburg, VA 23185, 757-564-6452
 Elizabeth City: 106 Capital Trace Unit E, Elizabeth City, NC 27909, 252-335-9765
 Jacksonville: 415-A Western Blvd, Jacksonville, NC 28546, 910-478-9915

BORING ID VB-04

PROJECT NAME: **Ballard Residence Improvements** PROJECT NUMBER: **K3215338**
 CLIENT: **Steve Ballard** SURFACE ELEVATION (NAVD88) (ft): _____
 PROJECT LOCATION: **Virginia Beach, Virginia** LOGGED BY: **Chase Lubecki, EIT**
 BORING COORDINATES: **EAST: -76.04112123 NORTH: 36.89544275** DATE STARTED: **12/1/2021**
 DRILLING METHOD(S): **Vibracore** DATE COMPLETED: **12/1/2021**
 GROUNDWATER*: INITIAL (ft) ∇: **0** AFTER _____ HOURS (ft) ▼: _____ CAVE-IN (ft) ☉: _____ DRILLER: **GET Solutions, Inc.**
The initial groundwater readings are not intended to indicate the static groundwater level.

Elevation (ft)	Depth (ft)	STRATA DESCRIPTION	Strata Legend	Sample ID	Sample Type	Sample Recovery (in.)	Blow Counts (N-Values)	% <#200	TEST RESULTS						
									Plastic Limit X	Liquid Limit X	Water Content - ●	Penetration - ▨			
									10	20	30	40	50	60	70
	1.3	Dark gray, fine, SILTY SAND, contains trace organics and pockets of clay, wet (SM)		1	○										
	3.3	Brown, fine to coarse, POORLY GRADED SAND, contains trace organics, wet (SP)													
5	5.3	Dark gray, fine, CLAYEY SAND, contains trace organics, wet (SC)		2		72									
	7.3	(No recovery from 7.25 to 9.25 feet)													
	9.3	Boring terminated at 9.25 feet below existing grade.													

This information pertains only to this boring and should not be interpreted as being indicative of the site.

Sample Type(s): NR - No Recovery T - Thin Wall Tube
 Notes: See boring location plan.



RECORD OF SUBSURFACE EXPLORATION

BORING ID VB-05

Virginia Beach: 5465 Greenwich Road, Virginia Beach, VA 23642, 757-518-1703
 Williamsburg: 1592-E Penniman Road, Williamsburg, VA 23185, 757-564-6452
 Elizabeth City: 106 Capital Trace Unit E, Elizabeth City, NC 27909, 252-335-9765
 Jacksonville: 415-A Western Blvd, Jacksonville, NC 28546, 910-478-9915

PROJECT NAME: Ballard Residence Improvements PROJECT NUMBER: K3215338
 CLIENT: Steve Ballard SURFACE ELEVATION (NAVD88) (ft): _____
 PROJECT LOCATION: Virginia Beach, Virginia LOGGED BY: Chase Lubecki, EIT
 BORING COORDINATES: EAST: -76.0420184 NORTH: 36.8951716 DATE STARTED: 12/1/2021
 DRILLING METHOD(S): Vibracore DATE COMPLETED: 12/1/2021
 GROUNDWATER*: INITIAL (ft) ∇ : 0 AFTER _____ HOURS (ft) ∇ : _____ CAVE-IN (ft) \ominus : _____ DRILLER: GET Solutions, Inc.
The initial groundwater readings are not intended to indicate the static groundwater level.

Elevation (ft)	Depth (ft)	STRATA DESCRIPTION	Strata Legend	Sample ID	Sample Type	Sample Recovery (in.)	Blow Counts (N-Values)	% <#200	TEST RESULTS						
									Plastic Limit X	Liquid Limit X	Water Content - ●	Penetration - ▨			
									10	20	30	40	50	60	70
	1.5	Dark gray to gray mottled brown, LEAN CLAY, contains trace organics, wet (CL)		1	○										
	3.5	Brown-red, fine, CLAYEY SAND, wet (SC)													
	5.5	Light brown, fine to medium, POORLY GRADED SAND WITH SILT, wet (SP-SM)		2		66									
	7.0	(No recovery from 5.5 to 8 feet)													
	9.5	Boring terminated at 9.5 feet below existing grade.													

This information pertains only to this boring and should not be interpreted as being indicative of the site.

Sample Type(s):
 NR - No Recovery
 T - Thin Wall Tube

Notes: See boring location plan.

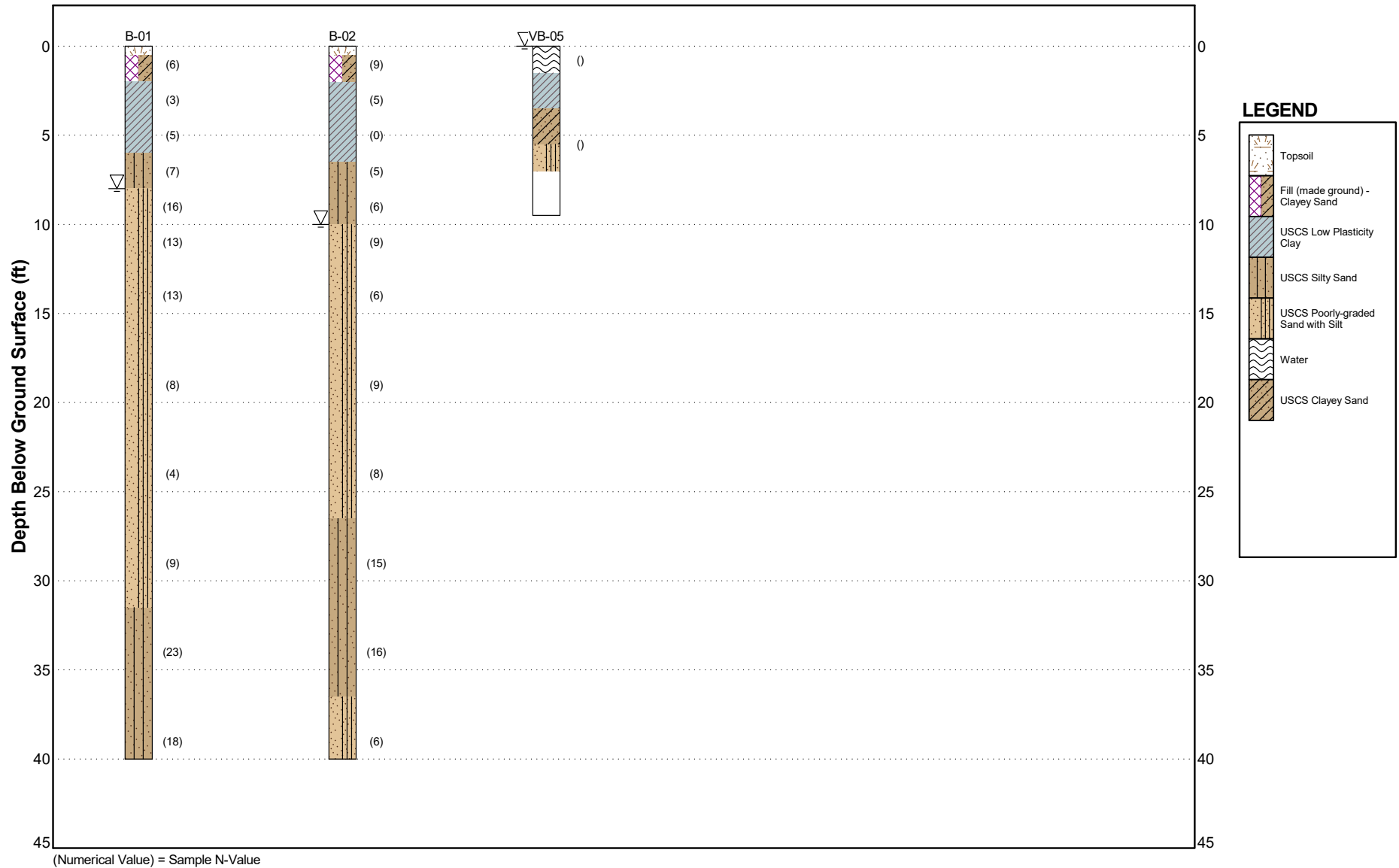
APPENDIX V

GENERALIZED SOIL PROFILES



GENERALIZED SOIL PROFILE

PROJECT NAME: Ballard Residence Improvements PROJECT NUMBER: K3215338
 PROJECT LOCATION: Virginia Beach, Virginia CLIENT: Steve Ballard



(Numerical Value) = Sample N-Value



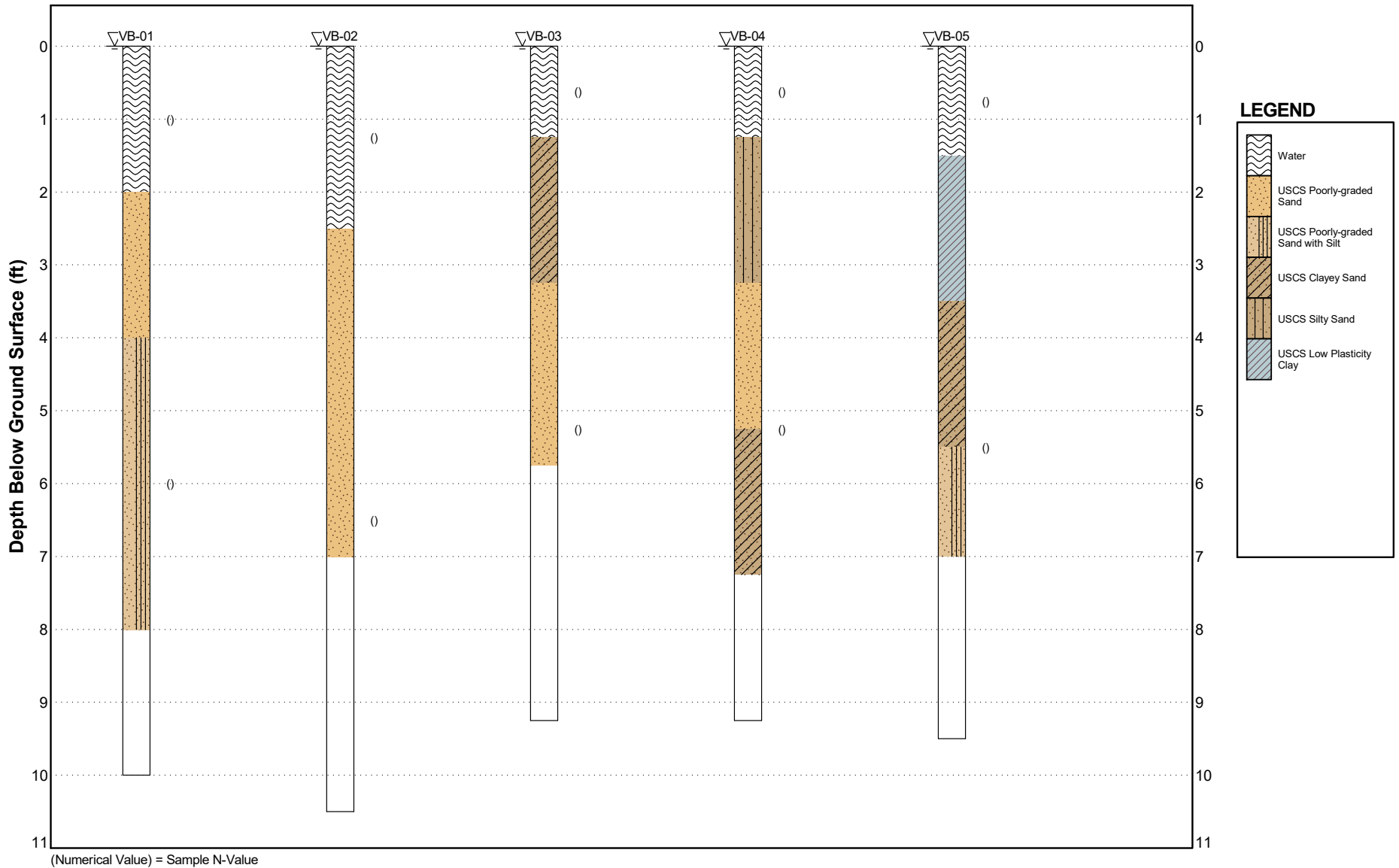
GENERALIZED SOIL PROFILE

PROJECT NAME: **Ballard Residence Improvements**

PROJECT NUMBER: **K3215338**

PROJECT LOCATION: **Virginia Beach, Virginia**

CLIENT: **Steve Ballard**



(Numerical Value) = Sample N-Value

APPENDIX VI

ENVIRONMENTAL RESULTS



December 14, 2021

Chris Hahn
GET Solutions
5465 Greenwich Road
Virginia Beach, VA 23462

RE: Project: K3215338
Pace Project No.: 92575528

Dear Chris Hahn:

Enclosed are the analytical results for sample(s) received by the laboratory on December 03, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Ryan Brumfield', with a horizontal line underneath.

Ryan Brumfield
ryan.brumfield@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Adina Rose, GET Solutions, Inc
Kathy Shirley, GET Solutions Inc. A Terracon Company



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: K3215338

Pace Project No.: 92575528

Pace Analytical Services Charlotte

South Carolina Laboratory ID: 99006
9800 Kinsey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Laboratory ID: 99006

South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DoH Drinking Water #: LA029
Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40

South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: K3215338

Pace Project No.: 92575528

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92575528001	VB-1	EPA 8015C	AP2	2	PASI-C
		EPA 8082A	BAJ	8	PASI-C
		EPA 8015C	MAD	2	PASI-C
		EPA 6010D	JOR	7	PASI-A
		EPA 7470A	RDT	1	PASI-A
		EPA 8260D	LMB	7	PASI-C
		SW-846	KDF	1	PASI-C
92575528002	VB-2	EPA 8015C	AP2	2	PASI-C
		EPA 8082A	BAJ	8	PASI-C
		EPA 8015C	MAD	2	PASI-C
		EPA 6010D	JOR	7	PASI-A
		EPA 7470A	RDT	1	PASI-A
		EPA 8260D	LMB	7	PASI-C
		SW-846	KDF	1	PASI-C
92575528003	VB-3	EPA 8015C	AP2	2	PASI-C
		EPA 8082A	BAJ	8	PASI-C
		EPA 8015C	MAD	2	PASI-C
		EPA 6010D	JOR	7	PASI-A
		EPA 7470A	RDT	1	PASI-A
		EPA 8260D	LMB	7	PASI-C
		SW-846	KDF	1	PASI-C
92575528004	VB-4	EPA 8015C	AP2	2	PASI-C
		EPA 8082A	BAJ	8	PASI-C
		EPA 8015C	MAD	2	PASI-C
		EPA 6010D	JOR	7	PASI-A
		EPA 7470A	RDT	1	PASI-A
		EPA 8260D	LMB	7	PASI-C
		SW-846	KDF	1	PASI-C
92575528005	VB-5	EPA 8015C	AP2	2	PASI-C
		EPA 8082A	BAJ	8	PASI-C
		EPA 8015C	MAD	2	PASI-C
		EPA 6010D	JOR	7	PASI-A
		EPA 7470A	RDT	1	PASI-A
		EPA 8260D	LMB	7	PASI-C
		SW-846	KDF	1	PASI-C

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: K3215338

Pace Project No.: 92575528

Sample: VB-1 Lab ID: 92575528001 Collected: 12/01/21 09:30 Received: 12/03/21 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel								
Analytical Method: EPA 8015C Preparation Method: EPA 3546								
Pace Analytical Services - Charlotte								
Diesel Range Organics(C10-C28)	ND	mg/kg	7.0	1	12/04/21 16:51	12/07/21 09:57		
Surrogates								
n-Pentacosane (S)	69	%	32-130	1	12/04/21 16:51	12/07/21 09:57	629-99-2	
8082 GCS PCB								
Analytical Method: EPA 8082A Preparation Method: EPA 3546								
Pace Analytical Services - Charlotte								
PCB-1016 (Aroclor 1016)	ND	ug/kg	46.3	1	12/03/21 17:08	12/06/21 09:55	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	46.3	1	12/03/21 17:08	12/06/21 09:55	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	46.3	1	12/03/21 17:08	12/06/21 09:55	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	46.3	1	12/03/21 17:08	12/06/21 09:55	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	46.3	1	12/03/21 17:08	12/06/21 09:55	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	46.3	1	12/03/21 17:08	12/06/21 09:55	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	46.3	1	12/03/21 17:08	12/06/21 09:55	11096-82-5	
Surrogates								
Decachlorobiphenyl (S)	70	%	10-160	1	12/03/21 17:08	12/06/21 09:55	2051-24-3	
Gasoline Range Organics								
Analytical Method: EPA 8015C Preparation Method: EPA 5030B								
Pace Analytical Services - Charlotte								
Gas Range Organics (C6-C10)	ND	mg/kg	10.6	1	12/04/21 11:25	12/05/21 03:17		
Surrogates								
4-Bromofluorobenzene (S)	86	%	66-131	1	12/04/21 11:25	12/05/21 03:17	460-00-4	
6010 MET ICP, TCLP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Leachate Method/Date: EPA 1311; 12/03/21 15:13 Initial pH: 5.07; Final pH: 2								
Pace Analytical Services - Asheville								
Arsenic	ND	mg/L	0.050	1	12/07/21 01:52	12/08/21 05:35	7440-38-2	
Barium	ND	mg/L	0.25	1	12/07/21 01:52	12/08/21 05:35	7440-39-3	
Cadmium	ND	mg/L	0.0050	1	12/07/21 01:52	12/08/21 05:35	7440-43-9	
Chromium	ND	mg/L	0.050	1	12/07/21 01:52	12/08/21 05:35	7440-47-3	
Lead	ND	mg/L	0.025	1	12/07/21 01:52	12/08/21 05:35	7439-92-1	
Selenium	ND	mg/L	0.10	1	12/07/21 01:52	12/08/21 05:35	7782-49-2	
Silver	ND	mg/L	0.025	1	12/07/21 01:52	12/08/21 05:35	7440-22-4	
7470 Mercury, TCLP								
Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Leachate Method/Date: EPA 1311; 12/03/21 15:13 Initial pH: 5.07; Final pH: 2								
Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	1	12/07/21 10:39	12/07/21 13:31	7439-97-6	
8260D/5035A/5030B Volatiles								
Analytical Method: EPA 8260D Preparation Method: EPA 5035A/5030B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/kg	8.9	1	12/06/21 16:03	12/07/21 13:48	71-43-2	
Ethylbenzene	ND	ug/kg	8.9	1	12/06/21 16:03	12/07/21 13:48	100-41-4	
Toluene	ND	ug/kg	8.9	1	12/06/21 16:03	12/07/21 13:48	108-88-3	
Xylene (Total)	ND	ug/kg	17.8	1	12/06/21 16:03	12/07/21 13:48	1330-20-7	

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ANALYTICAL RESULTS

Project: K3215338

Pace Project No.: 92575528

Sample: VB-1 **Lab ID: 92575528001** Collected: 12/01/21 09:30 Received: 12/03/21 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D/5035A/5030B Volatiles		Analytical Method: EPA 8260D Preparation Method: EPA 5035A/5030B Pace Analytical Services - Charlotte						
Surrogates								
Toluene-d8 (S)	99	%	70-130	1	12/06/21 16:03	12/07/21 13:48	2037-26-5	u8
4-Bromofluorobenzene (S)	98	%	69-134	1	12/06/21 16:03	12/07/21 13:48	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130	1	12/06/21 16:03	12/07/21 13:48	17060-07-0	
Percent Moisture		Analytical Method: SW-846 Pace Analytical Services - Charlotte						
Percent Moisture	27.7	%	0.10	1		12/09/21 17:15		N2

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ANALYTICAL RESULTS

Project: K3215338
 Pace Project No.: 92575528

Sample: VB-2 Lab ID: 92575528002 Collected: 12/01/21 10:00 Received: 12/03/21 09:20 Matrix: Solid
 Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel								
Analytical Method: EPA 8015C Preparation Method: EPA 3546 Pace Analytical Services - Charlotte								
Diesel Range Organics(C10-C28)	ND	mg/kg	6.2	1	12/04/21 16:51	12/07/21 10:14		
Surrogates								
n-Pentacosane (S)	75	%	32-130	1	12/04/21 16:51	12/07/21 10:14	629-99-2	
8082 GCS PCB								
Analytical Method: EPA 8082A Preparation Method: EPA 3546 Pace Analytical Services - Charlotte								
PCB-1016 (Aroclor 1016)	ND	ug/kg	40.3	1	12/03/21 17:08	12/06/21 10:10	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	40.3	1	12/03/21 17:08	12/06/21 10:10	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	40.3	1	12/03/21 17:08	12/06/21 10:10	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	40.3	1	12/03/21 17:08	12/06/21 10:10	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	40.3	1	12/03/21 17:08	12/06/21 10:10	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	40.3	1	12/03/21 17:08	12/06/21 10:10	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	40.3	1	12/03/21 17:08	12/06/21 10:10	11096-82-5	
Surrogates								
Decachlorobiphenyl (S)	58	%	10-160	1	12/03/21 17:08	12/06/21 10:10	2051-24-3	
Gasoline Range Organics								
Analytical Method: EPA 8015C Preparation Method: EPA 5030B Pace Analytical Services - Charlotte								
Gas Range Organics (C6-C10)	ND	mg/kg	8.7	1	12/04/21 11:25	12/05/21 04:13		
Surrogates								
4-Bromofluorobenzene (S)	87	%	66-131	1	12/04/21 11:25	12/05/21 04:13	460-00-4	
6010 MET ICP, TCLP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Leachate Method/Date: EPA 1311; 12/03/21 15:13 Initial pH: 4.49; Final pH: 2 Pace Analytical Services - Asheville								
Arsenic	ND	mg/L	0.050	1	12/07/21 01:52	12/08/21 05:38	7440-38-2	
Barium	ND	mg/L	0.25	1	12/07/21 01:52	12/08/21 05:38	7440-39-3	
Cadmium	ND	mg/L	0.0050	1	12/07/21 01:52	12/08/21 05:38	7440-43-9	
Chromium	ND	mg/L	0.050	1	12/07/21 01:52	12/08/21 05:38	7440-47-3	
Lead	ND	mg/L	0.025	1	12/07/21 01:52	12/08/21 05:38	7439-92-1	
Selenium	ND	mg/L	0.10	1	12/07/21 01:52	12/08/21 05:38	7782-49-2	
Silver	ND	mg/L	0.025	1	12/07/21 01:52	12/08/21 05:38	7440-22-4	
7470 Mercury, TCLP								
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Leachate Method/Date: EPA 1311; 12/03/21 15:13 Initial pH: 4.49; Final pH: 2 Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	1	12/07/21 10:39	12/07/21 13:33	7439-97-6	
8260D/5035A/5030B Volatiles								
Analytical Method: EPA 8260D Preparation Method: EPA 5035A/5030B Pace Analytical Services - Charlotte								
Benzene	ND	ug/kg	7.4	1	12/06/21 16:03	12/07/21 14:24	71-43-2	
Ethylbenzene	ND	ug/kg	7.4	1	12/06/21 16:03	12/07/21 14:24	100-41-4	
Toluene	ND	ug/kg	7.4	1	12/06/21 16:03	12/07/21 14:24	108-88-3	
Xylene (Total)	ND	ug/kg	14.9	1	12/06/21 16:03	12/07/21 14:24	1330-20-7	

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ANALYTICAL RESULTS

Project: K3215338

Pace Project No.: 92575528

Sample: VB-2 **Lab ID: 92575528002** Collected: 12/01/21 10:00 Received: 12/03/21 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D/5035A/5030B Volatiles		Analytical Method: EPA 8260D Preparation Method: EPA 5035A/5030B Pace Analytical Services - Charlotte						
Surrogates								
Toluene-d8 (S)	99	%	70-130	1	12/06/21 16:03	12/07/21 14:24	2037-26-5	u8
4-Bromofluorobenzene (S)	98	%	69-134	1	12/06/21 16:03	12/07/21 14:24	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70-130	1	12/06/21 16:03	12/07/21 14:24	17060-07-0	
Percent Moisture		Analytical Method: SW-846 Pace Analytical Services - Charlotte						
Percent Moisture	18.7	%	0.10	1		12/09/21 17:15		N2

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ANALYTICAL RESULTS

Project: K3215338

Pace Project No.: 92575528

Sample: VB-3 Lab ID: 92575528003 Collected: 12/01/21 10:30 Received: 12/03/21 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel								
Analytical Method: EPA 8015C Preparation Method: EPA 3546								
Pace Analytical Services - Charlotte								
Diesel Range Organics(C10-C28)	ND	mg/kg	6.1	1	12/04/21 16:51	12/07/21 10:14		
Surrogates								
n-Pentacosane (S)	70	%	32-130	1	12/04/21 16:51	12/07/21 10:14	629-99-2	
8082 GCS PCB								
Analytical Method: EPA 8082A Preparation Method: EPA 3546								
Pace Analytical Services - Charlotte								
PCB-1016 (Aroclor 1016)	ND	ug/kg	41.2	1	12/03/21 17:08	12/06/21 10:25	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	41.2	1	12/03/21 17:08	12/06/21 10:25	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	41.2	1	12/03/21 17:08	12/06/21 10:25	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	41.2	1	12/03/21 17:08	12/06/21 10:25	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	41.2	1	12/03/21 17:08	12/06/21 10:25	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	41.2	1	12/03/21 17:08	12/06/21 10:25	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	41.2	1	12/03/21 17:08	12/06/21 10:25	11096-82-5	
Surrogates								
Decachlorobiphenyl (S)	61	%	10-160	1	12/03/21 17:08	12/06/21 10:25	2051-24-3	
Gasoline Range Organics								
Analytical Method: EPA 8015C Preparation Method: EPA 5030B								
Pace Analytical Services - Charlotte								
Gas Range Organics (C6-C10)	ND	mg/kg	8.7	1	12/04/21 11:25	12/05/21 04:41		
Surrogates								
4-Bromofluorobenzene (S)	87	%	66-131	1	12/04/21 11:25	12/05/21 04:41	460-00-4	
6010 MET ICP, TCLP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Leachate Method/Date: EPA 1311; 12/03/21 15:13 Initial pH: 4.82; Final pH: 2								
Pace Analytical Services - Asheville								
Arsenic	ND	mg/L	0.050	1	12/07/21 01:52	12/08/21 05:42	7440-38-2	
Barium	ND	mg/L	0.25	1	12/07/21 01:52	12/08/21 05:42	7440-39-3	
Cadmium	ND	mg/L	0.0050	1	12/07/21 01:52	12/08/21 05:42	7440-43-9	
Chromium	ND	mg/L	0.050	1	12/07/21 01:52	12/08/21 05:42	7440-47-3	
Lead	ND	mg/L	0.025	1	12/07/21 01:52	12/08/21 05:42	7439-92-1	
Selenium	ND	mg/L	0.10	1	12/07/21 01:52	12/08/21 05:42	7782-49-2	
Silver	ND	mg/L	0.025	1	12/07/21 01:52	12/08/21 05:42	7440-22-4	
7470 Mercury, TCLP								
Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Leachate Method/Date: EPA 1311; 12/03/21 15:13 Initial pH: 4.82; Final pH: 2								
Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	1	12/07/21 10:39	12/07/21 13:35	7439-97-6	
8260D/5035A/5030B Volatiles								
Analytical Method: EPA 8260D Preparation Method: EPA 5035A/5030B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/kg	7.3	1	12/06/21 16:03	12/07/21 14:43	71-43-2	
Ethylbenzene	ND	ug/kg	7.3	1	12/06/21 16:03	12/07/21 14:43	100-41-4	
Toluene	ND	ug/kg	7.3	1	12/06/21 16:03	12/07/21 14:43	108-88-3	
Xylene (Total)	ND	ug/kg	14.6	1	12/06/21 16:03	12/07/21 14:43	1330-20-7	

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ANALYTICAL RESULTS

Project: K3215338

Pace Project No.: 92575528

Sample: VB-3 **Lab ID: 92575528003** Collected: 12/01/21 10:30 Received: 12/03/21 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D/5035A/5030B Volatiles		Analytical Method: EPA 8260D Preparation Method: EPA 5035A/5030B Pace Analytical Services - Charlotte						
Surrogates								
Toluene-d8 (S)	98	%	70-130	1	12/06/21 16:03	12/07/21 14:43	2037-26-5	u8
4-Bromofluorobenzene (S)	98	%	69-134	1	12/06/21 16:03	12/07/21 14:43	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130	1	12/06/21 16:03	12/07/21 14:43	17060-07-0	
Percent Moisture		Analytical Method: SW-846 Pace Analytical Services - Charlotte						
Percent Moisture	18.9	%	0.10	1		12/09/21 17:15		N2

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ANALYTICAL RESULTS

Project: K3215338

Pace Project No.: 92575528

Sample: VB-4 **Lab ID: 92575528004** Collected: 12/01/21 11:00 Received: 12/03/21 09:20 Matrix: Solid
Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel								
Analytical Method: EPA 8015C Preparation Method: EPA 3546								
Pace Analytical Services - Charlotte								
Diesel Range Organics(C10-C28)	ND	mg/kg	6.1	1	12/04/21 16:51	12/07/21 10:30		
Surrogates								
n-Pentacosane (S)	99	%	32-130	1	12/04/21 16:51	12/07/21 10:30	629-99-2	
8082 GCS PCB								
Analytical Method: EPA 8082A Preparation Method: EPA 3546								
Pace Analytical Services - Charlotte								
PCB-1016 (Aroclor 1016)	ND	ug/kg	40.4	1	12/03/21 17:08	12/06/21 10:39	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	40.4	1	12/03/21 17:08	12/06/21 10:39	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	40.4	1	12/03/21 17:08	12/06/21 10:39	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	40.4	1	12/03/21 17:08	12/06/21 10:39	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	40.4	1	12/03/21 17:08	12/06/21 10:39	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	40.4	1	12/03/21 17:08	12/06/21 10:39	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	40.4	1	12/03/21 17:08	12/06/21 10:39	11096-82-5	
Surrogates								
Decachlorobiphenyl (S)	34	%	10-160	1	12/03/21 17:08	12/06/21 10:39	2051-24-3	
Gasoline Range Organics								
Analytical Method: EPA 8015C Preparation Method: EPA 5030B								
Pace Analytical Services - Charlotte								
Gas Range Organics (C6-C10)	ND	mg/kg	8.6	1	12/04/21 11:25	12/05/21 05:09		
Surrogates								
4-Bromofluorobenzene (S)	87	%	66-131	1	12/04/21 11:25	12/05/21 05:09	460-00-4	
6010 MET ICP, TCLP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Leachate Method/Date: EPA 1311; 12/03/21 15:13 Initial pH: 4.4; Final pH: 2								
Pace Analytical Services - Asheville								
Arsenic	ND	mg/L	0.050	1	12/07/21 01:52	12/08/21 05:45	7440-38-2	
Barium	ND	mg/L	0.25	1	12/07/21 01:52	12/08/21 05:45	7440-39-3	
Cadmium	ND	mg/L	0.0050	1	12/07/21 01:52	12/08/21 05:45	7440-43-9	
Chromium	ND	mg/L	0.050	1	12/07/21 01:52	12/08/21 05:45	7440-47-3	
Lead	ND	mg/L	0.025	1	12/07/21 01:52	12/08/21 05:45	7439-92-1	
Selenium	ND	mg/L	0.10	1	12/07/21 01:52	12/08/21 05:45	7782-49-2	
Silver	ND	mg/L	0.025	1	12/07/21 01:52	12/08/21 05:45	7440-22-4	
7470 Mercury, TCLP								
Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Leachate Method/Date: EPA 1311; 12/03/21 15:13 Initial pH: 4.4; Final pH: 2								
Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	1	12/07/21 10:39	12/07/21 13:38	7439-97-6	
8260D/5035A/5030B Volatiles								
Analytical Method: EPA 8260D Preparation Method: EPA 5035A/5030B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/kg	7.2	1	12/06/21 16:03	12/07/21 15:01	71-43-2	
Ethylbenzene	ND	ug/kg	7.2	1	12/06/21 16:03	12/07/21 15:01	100-41-4	
Toluene	ND	ug/kg	7.2	1	12/06/21 16:03	12/07/21 15:01	108-88-3	
Xylene (Total)	ND	ug/kg	14.3	1	12/06/21 16:03	12/07/21 15:01	1330-20-7	

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ANALYTICAL RESULTS

Project: K3215338

Pace Project No.: 92575528

Sample: VB-4 **Lab ID: 92575528004** Collected: 12/01/21 11:00 Received: 12/03/21 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D/5035A/5030B Volatiles		Analytical Method: EPA 8260D Preparation Method: EPA 5035A/5030B Pace Analytical Services - Charlotte						
Surrogates								
Toluene-d8 (S)	100	%	70-130	1	12/06/21 16:03	12/07/21 15:01	2037-26-5	u8
4-Bromofluorobenzene (S)	98	%	69-134	1	12/06/21 16:03	12/07/21 15:01	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130	1	12/06/21 16:03	12/07/21 15:01	17060-07-0	
Percent Moisture		Analytical Method: SW-846 Pace Analytical Services - Charlotte						
Percent Moisture	18.1	%	0.10	1		12/09/21 17:15		N2

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ANALYTICAL RESULTS

Project: K3215338

Pace Project No.: 92575528

Sample: VB-5 Lab ID: 92575528005 Collected: 12/01/21 11:30 Received: 12/03/21 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel								
Analytical Method: EPA 8015C Preparation Method: EPA 3546								
Pace Analytical Services - Charlotte								
Diesel Range Organics(C10-C28)	ND	mg/kg	7.0	1	12/04/21 16:51	12/07/21 10:30		
Surrogates								
n-Pentacosane (S)	72	%	32-130	1	12/04/21 16:51	12/07/21 10:30	629-99-2	
8082 GCS PCB								
Analytical Method: EPA 8082A Preparation Method: EPA 3546								
Pace Analytical Services - Charlotte								
PCB-1016 (Aroclor 1016)	ND	ug/kg	45.6	1	12/03/21 17:08	12/06/21 10:54	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	45.6	1	12/03/21 17:08	12/06/21 10:54	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	45.6	1	12/03/21 17:08	12/06/21 10:54	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	45.6	1	12/03/21 17:08	12/06/21 10:54	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	45.6	1	12/03/21 17:08	12/06/21 10:54	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	45.6	1	12/03/21 17:08	12/06/21 10:54	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	45.6	1	12/03/21 17:08	12/06/21 10:54	11096-82-5	
Surrogates								
Decachlorobiphenyl (S)	88	%	10-160	1	12/03/21 17:08	12/06/21 10:54	2051-24-3	
Gasoline Range Organics								
Analytical Method: EPA 8015C Preparation Method: EPA 5030B								
Pace Analytical Services - Charlotte								
Gas Range Organics (C6-C10)	ND	mg/kg	10.7	1	12/04/21 11:25	12/05/21 05:37		
Surrogates								
4-Bromofluorobenzene (S)	87	%	66-131	1	12/04/21 11:25	12/05/21 05:37	460-00-4	
6010 MET ICP, TCLP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Leachate Method/Date: EPA 1311; 12/03/21 15:13 Initial pH: 4.51; Final pH: 2								
Pace Analytical Services - Asheville								
Arsenic	ND	mg/L	0.050	1	12/07/21 01:52	12/08/21 05:56	7440-38-2	
Barium	ND	mg/L	0.25	1	12/07/21 01:52	12/08/21 05:56	7440-39-3	
Cadmium	ND	mg/L	0.0050	1	12/07/21 01:52	12/08/21 05:56	7440-43-9	
Chromium	ND	mg/L	0.050	1	12/07/21 01:52	12/08/21 05:56	7440-47-3	
Lead	ND	mg/L	0.025	1	12/07/21 01:52	12/08/21 05:56	7439-92-1	
Selenium	ND	mg/L	0.10	1	12/07/21 01:52	12/08/21 05:56	7782-49-2	
Silver	ND	mg/L	0.025	1	12/07/21 01:52	12/08/21 05:56	7440-22-4	
7470 Mercury, TCLP								
Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Leachate Method/Date: EPA 1311; 12/03/21 15:13 Initial pH: 4.51; Final pH: 2								
Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	1	12/07/21 10:39	12/07/21 13:40	7439-97-6	
8260D/5035A/5030B Volatiles								
Analytical Method: EPA 8260D Preparation Method: EPA 5035A/5030B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/kg	8.9	1	12/06/21 16:03	12/07/21 15:20	71-43-2	
Ethylbenzene	ND	ug/kg	8.9	1	12/06/21 16:03	12/07/21 15:20	100-41-4	
Toluene	ND	ug/kg	8.9	1	12/06/21 16:03	12/07/21 15:20	108-88-3	
Xylene (Total)	ND	ug/kg	17.7	1	12/06/21 16:03	12/07/21 15:20	1330-20-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: K3215338

Pace Project No.: 92575528

Sample: VB-5 **Lab ID: 92575528005** Collected: 12/01/21 11:30 Received: 12/03/21 09:20 Matrix: Solid
Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D/5035A/5030B Volatiles		Analytical Method: EPA 8260D Preparation Method: EPA 5035A/5030B Pace Analytical Services - Charlotte						
Surrogates								
Toluene-d8 (S)	99	%	70-130	1	12/06/21 16:03	12/07/21 15:20	2037-26-5	u8
4-Bromofluorobenzene (S)	96	%	69-134	1	12/06/21 16:03	12/07/21 15:20	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130	1	12/06/21 16:03	12/07/21 15:20	17060-07-0	
Percent Moisture		Analytical Method: SW-846 Pace Analytical Services - Charlotte						
Percent Moisture	27.8	%	0.10	1		12/09/21 17:15		N2

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QUALITY CONTROL DATA

Project: K3215338
 Pace Project No.: 92575528

QC Batch: 663960 Analysis Method: EPA 8015C
 QC Batch Method: EPA 5030B Analysis Description: Gasoline Range Organics
 Laboratory: Pace Analytical Services - Charlotte
 Associated Lab Samples: 92575528001, 92575528002, 92575528003, 92575528004, 92575528005

METHOD BLANK: 3478046 Matrix: Solid
 Associated Lab Samples: 92575528001, 92575528002, 92575528003, 92575528004, 92575528005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gas Range Organics (C6-C10)	mg/kg	ND	6.0	12/04/21 17:26	
4-Bromofluorobenzene (S)	%	84	66-131	12/04/21 17:26	

LABORATORY CONTROL SAMPLE: 3478047

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gas Range Organics (C6-C10)	mg/kg	50.4	50.0	99	70-130	
4-Bromofluorobenzene (S)	%			93	66-131	

MATRIX SPIKE SAMPLE: 3478049

Parameter	Units	92575528002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Gas Range Organics (C6-C10)	mg/kg	ND	72.5	89.1	123	70-145	
4-Bromofluorobenzene (S)	%				96	66-131	

SAMPLE DUPLICATE: 3478048

Parameter	Units	92575528001 Result	Dup Result	RPD	Qualifiers
Gas Range Organics (C6-C10)	mg/kg	ND	ND		
4-Bromofluorobenzene (S)	%	86	90		

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QUALITY CONTROL DATA

Project: K3215338
 Pace Project No.: 92575528

QC Batch: 664253 Analysis Method: EPA 7470A
 QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury TCLP
 Laboratory: Pace Analytical Services - Asheville
 Associated Lab Samples: 92575528001, 92575528002, 92575528003, 92575528004, 92575528005

METHOD BLANK: 3476657 Matrix: Water
 Associated Lab Samples: 92575528001, 92575528002, 92575528003, 92575528004, 92575528005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	12/07/21 12:58	

LABORATORY CONTROL SAMPLE: 3479454

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0025	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3479455 3479456

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		Spike Conc.	Result	Spike Conc.	Result					
Mercury	mg/L	ND	0.0025	0.0025	0.0027	0.0026	108	104	75-125	4

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QUALITY CONTROL DATA

Project: K3215338
 Pace Project No.: 92575528

QC Batch: 664252 Analysis Method: EPA 6010D
 QC Batch Method: EPA 3010A Analysis Description: 6010 MET TCLP
 Laboratory: Pace Analytical Services - Asheville
 Associated Lab Samples: 92575528001, 92575528002, 92575528003, 92575528004, 92575528005

METHOD BLANK: 3476657 Matrix: Water
 Associated Lab Samples: 92575528001, 92575528002, 92575528003, 92575528004, 92575528005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.050	12/08/21 04:46	
Barium	mg/L	ND	0.25	12/08/21 04:46	
Cadmium	mg/L	ND	0.0050	12/08/21 04:46	
Chromium	mg/L	ND	0.050	12/08/21 04:46	
Lead	mg/L	ND	0.025	12/08/21 04:46	
Selenium	mg/L	ND	0.10	12/08/21 04:46	
Silver	mg/L	ND	0.025	12/08/21 04:46	

LABORATORY CONTROL SAMPLE: 3479451

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	2.5	2.2	88	80-120	
Barium	mg/L	2.5	2.1	82	80-120	
Cadmium	mg/L	2.5	2.2	86	80-120	
Chromium	mg/L	2.5	2.1	85	80-120	
Lead	mg/L	2.5	2.1	83	80-120	
Selenium	mg/L	2.5	2.3	93	80-120	
Silver	mg/L	1.2	1.2	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3479452 3479453

Parameter	92575134001		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec			
Arsenic	mg/L	ND	2.5	2.5	2.2	2.1	89	86	75-125	3	
Barium	mg/L	ND	2.5	2.5	2.3	2.2	84	79	75-125	6	
Cadmium	mg/L	ND	2.5	2.5	2.2	2.1	87	84	75-125	4	
Chromium	mg/L	ND	2.5	2.5	2.1	2.0	85	82	75-125	3	
Lead	mg/L	ND	2.5	2.5	2.1	2.0	84	81	75-125	4	
Selenium	mg/L	ND	2.5	2.5	2.3	2.2	93	89	75-125	4	
Silver	mg/L	ND	1.2	1.2	1.2	1.1	95	91	75-125	4	

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QUALITY CONTROL DATA

Project: K3215338
 Pace Project No.: 92575528

QC Batch: 664186 Analysis Method: EPA 8260D
 QC Batch Method: EPA 5035A/5030B Analysis Description: 8260D 5035A 5030B
 Laboratory: Pace Analytical Services - Charlotte
 Associated Lab Samples: 92575528001, 92575528002, 92575528003, 92575528004, 92575528005

METHOD BLANK: 3479116 Matrix: Solid
 Associated Lab Samples: 92575528001, 92575528002, 92575528003, 92575528004, 92575528005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/kg	ND	5.0	12/07/21 13:11	
Ethylbenzene	ug/kg	ND	5.0	12/07/21 13:11	
Toluene	ug/kg	ND	5.0	12/07/21 13:11	
Xylene (Total)	ug/kg	ND	10.0	12/07/21 13:11	
1,2-Dichloroethane-d4 (S)	%	109	70-130	12/07/21 13:11	
4-Bromofluorobenzene (S)	%	97	69-134	12/07/21 13:11	
Toluene-d8 (S)	%	98	70-130	12/07/21 13:11	

LABORATORY CONTROL SAMPLE: 3479117

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/kg	1250	1210	97	70-130	
Ethylbenzene	ug/kg	1250	1140	91	70-130	
Toluene	ug/kg	1250	1170	94	70-130	
Xylene (Total)	ug/kg	3750	3600	96	70-130	
1,2-Dichloroethane-d4 (S)	%			96	70-130	
4-Bromofluorobenzene (S)	%			98	69-134	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE SAMPLE: 3479118

Parameter	Units	92575501006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Benzene	ug/kg	ND	514	570	110	67-130	
Ethylbenzene	ug/kg	74.4	514	523	87	66-130	
Toluene	ug/kg	102	514	537	85	67-130	
Xylene (Total)	ug/kg	599	1550	1650	68	63-132	
1,2-Dichloroethane-d4 (S)	%				102	70-130	
4-Bromofluorobenzene (S)	%				97	69-134	
Toluene-d8 (S)	%				99	70-130	

SAMPLE DUPLICATE: 3479119

Parameter	Units	92575528001 Result	Dup Result	RPD	Qualifiers
Benzene	ug/kg	ND	ND		
Ethylbenzene	ug/kg	ND	ND		
Toluene	ug/kg	ND	ND		

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QUALITY CONTROL DATA

Project: K3215338

Pace Project No.: 92575528

SAMPLE DUPLICATE: 3479119

Parameter	Units	92575528001 Result	Dup Result	RPD	Qualifiers
Xylene (Total)	ug/kg	ND	ND		
1,2-Dichloroethane-d4 (S)	%	103	105		
4-Bromofluorobenzene (S)	%	98	99		
Toluene-d8 (S)	%	99	99		

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QUALITY CONTROL DATA

Project: K3215338
 Pace Project No.: 92575528

QC Batch: 663949 Analysis Method: EPA 8015C
 QC Batch Method: EPA 3546 Analysis Description: 8015 Solid GCSV
 Laboratory: Pace Analytical Services - Charlotte
 Associated Lab Samples: 92575528001, 92575528002, 92575528003, 92575528004, 92575528005

METHOD BLANK: 3477999 Matrix: Solid
 Associated Lab Samples: 92575528001, 92575528002, 92575528003, 92575528004, 92575528005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Range Organics(C10-C28)	mg/kg	ND	5.0	12/07/21 08:52	
n-Pentacosane (S)	%	86	32-130	12/07/21 08:52	

LABORATORY CONTROL SAMPLE: 3478000

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Range Organics(C10-C28)	mg/kg	66.7	43.0	64	47-130	
n-Pentacosane (S)	%			68	32-130	

MATRIX SPIKE SAMPLE: 3478001

Parameter	Units	92575694002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Diesel Range Organics(C10-C28)	mg/kg	ND	73	64.7	85	10-133	
n-Pentacosane (S)	%				91	32-130	

SAMPLE DUPLICATE: 3478002

Parameter	Units	92575719001 Result	Dup Result	RPD	Qualifiers
Diesel Range Organics(C10-C28)	mg/kg	3270	1100	100	D6
n-Pentacosane (S)	%	0	106		

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QUALITY CONTROL DATA

Project: K3215338
 Pace Project No.: 92575528

QC Batch: 663856 Analysis Method: EPA 8082A
 QC Batch Method: EPA 3546 Analysis Description: 8082 GCS PCB
 Laboratory: Pace Analytical Services - Charlotte
 Associated Lab Samples: 92575528001, 92575528002, 92575528003, 92575528004, 92575528005

METHOD BLANK: 3477476 Matrix: Solid
 Associated Lab Samples: 92575528001, 92575528002, 92575528003, 92575528004, 92575528005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	ND	32.6	12/06/21 08:27	
PCB-1221 (Aroclor 1221)	ug/kg	ND	32.6	12/06/21 08:27	
PCB-1232 (Aroclor 1232)	ug/kg	ND	32.6	12/06/21 08:27	
PCB-1242 (Aroclor 1242)	ug/kg	ND	32.6	12/06/21 08:27	
PCB-1248 (Aroclor 1248)	ug/kg	ND	32.6	12/06/21 08:27	
PCB-1254 (Aroclor 1254)	ug/kg	ND	32.6	12/06/21 08:27	
PCB-1260 (Aroclor 1260)	ug/kg	ND	32.6	12/06/21 08:27	
Decachlorobiphenyl (S)	%	85	10-160	12/06/21 08:27	

LABORATORY CONTROL SAMPLE: 3477477

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	164	145	88	54-130	
PCB-1260 (Aroclor 1260)	ug/kg	164	153	93	47-139	
Decachlorobiphenyl (S)	%			91	10-160	

MATRIX SPIKE SAMPLE: 3477508

Parameter	Units	92575509002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	ND	217	171	79	17-131	
PCB-1260 (Aroclor 1260)	ug/kg	ND	217	138	64	10-142	
Decachlorobiphenyl (S)	%				57	10-160	

SAMPLE DUPLICATE: 3477479

Parameter	Units	92575509001 Result	Dup Result	RPD	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	ND	ND		
PCB-1221 (Aroclor 1221)	ug/kg	ND	ND		
PCB-1232 (Aroclor 1232)	ug/kg	ND	ND		
PCB-1242 (Aroclor 1242)	ug/kg	ND	ND		
PCB-1248 (Aroclor 1248)	ug/kg	ND	ND		
PCB-1254 (Aroclor 1254)	ug/kg	ND	ND		
PCB-1260 (Aroclor 1260)	ug/kg	ND	ND		
Decachlorobiphenyl (S)	%	70	69		

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QUALIFIERS

Project: K3215338

Pace Project No.: 92575528

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D6 The precision between the sample and sample duplicate exceeded laboratory control limits.

N2 The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

u8 Data does not meet all conditions for compliance monitoring due to use of soil jars.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: K3215338

Pace Project No.: 92575528


Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92575528001	VB-1	EPA 3546	663949	EPA 8015C	664288
92575528002	VB-2	EPA 3546	663949	EPA 8015C	664288
92575528003	VB-3	EPA 3546	663949	EPA 8015C	664288
92575528004	VB-4	EPA 3546	663949	EPA 8015C	664288
92575528005	VB-5	EPA 3546	663949	EPA 8015C	664288
92575528001	VB-1	EPA 3546	663856	EPA 8082A	664029
92575528002	VB-2	EPA 3546	663856	EPA 8082A	664029
92575528003	VB-3	EPA 3546	663856	EPA 8082A	664029
92575528004	VB-4	EPA 3546	663856	EPA 8082A	664029
92575528005	VB-5	EPA 3546	663856	EPA 8082A	664029
92575528001	VB-1	EPA 5030B	663960	EPA 8015C	663964
92575528002	VB-2	EPA 5030B	663960	EPA 8015C	663964
92575528003	VB-3	EPA 5030B	663960	EPA 8015C	663964
92575528004	VB-4	EPA 5030B	663960	EPA 8015C	663964
92575528005	VB-5	EPA 5030B	663960	EPA 8015C	663964
92575528001	VB-1	EPA 3010A	664252	EPA 6010D	664270
92575528002	VB-2	EPA 3010A	664252	EPA 6010D	664270
92575528003	VB-3	EPA 3010A	664252	EPA 6010D	664270
92575528004	VB-4	EPA 3010A	664252	EPA 6010D	664270
92575528005	VB-5	EPA 3010A	664252	EPA 6010D	664270
92575528001	VB-1	EPA 7470A	664253	EPA 7470A	664386
92575528002	VB-2	EPA 7470A	664253	EPA 7470A	664386
92575528003	VB-3	EPA 7470A	664253	EPA 7470A	664386
92575528004	VB-4	EPA 7470A	664253	EPA 7470A	664386
92575528005	VB-5	EPA 7470A	664253	EPA 7470A	664386
92575528001	VB-1	EPA 5035A/5030B	664186	EPA 8260D	664211
92575528002	VB-2	EPA 5035A/5030B	664186	EPA 8260D	664211
92575528003	VB-3	EPA 5035A/5030B	664186	EPA 8260D	664211
92575528004	VB-4	EPA 5035A/5030B	664186	EPA 8260D	664211
92575528005	VB-5	EPA 5035A/5030B	664186	EPA 8260D	664211
92575528001	VB-1	SW-846	665114		
92575528002	VB-2	SW-846	665114		
92575528003	VB-3	SW-846	665114		
92575528004	VB-4	SW-846	665114		
92575528005	VB-5	SW-846	665114		

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LAB USE ONLY

WO#: 92575528



Container F: 4

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Billing Information:

Company: **GET SOLUTIONS INC.**
 Address: **5465 GREENWICH RD.**
 Report To: **CHASE LUBECKI**
 Copy To: **CHASE LUBECKI**

Site Collection Info/Address: **CLUBBECKIE getsolutionsinc.com**
1500 ROAD 94M & OVER STREET CORN
 State: **VA** / **VIENNA BEACH** | Time Zone Collected: **ET**

Customer Project Name/Number: **K3215338**
 Phone: **(714) 904-2250**
 Email: **CHASE LUBECKI**

Site/Facility ID #: **K3215338**
 Purchase Order #: **7 DAG**
 Quote #: **7 DAG**
 Turnaround Date Required: **7 DAG**

Collected By (signature): *[Signature]*
 Sample Disposal: Same Day Next Day 3 Day 4 Day 5 Day
 Archive: Hold: Expedite Charges Apply

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Res CI	# of Ctns	Type of Ice Used:	Blue	Dry	None	Customer Remarks / Special Conditions / Possible Hazards:
			Date	Time							
VB-1	SL	C	12/12/21	0930	✓	4	WET				LAB USE ONLY: 92575528
VB-2	SL	C	12/12/21	1000	✓	4					LAB USE ONLY: 001
VB-3	SL	C	12/12/21	1030	✓	4					LAB USE ONLY: 002
VB-4	SL	C	12/12/21	1100	✓	4					LAB USE ONLY: 003
VB-5	SL	C	12/12/21	1130	✓	4					LAB USE ONLY: 004

Customer Remarks / Special Conditions / Possible Hazards:

SHORTR HOLDS PRESENT (<72 hours): Y (N) N/A

Lab Tracking #: **2546291**

Samples received via: **FEDEX** UPS Client Courier Pace Courier

Radchem sample(s) screened (<500 ppm): Y N NA

Lab Sample Receipt Checklist:

Custody Seals Present/Intact: Y (N) NA

Collector Signatures Present: Y (N) NA

Collector Signature Present: Y (N) NA

Bottles Intact: Y (N) NA

Correct Bottles: Y (N) NA

Sufficient Volume: Y (N) NA

Samples Received on Ice: Y (N) NA

VOA - Headspace Acceptable: Y (N) NA

USDA Regulated Soils: Y (N) NA

Samples in Holding Time: Y (N) NA

Residual Chlorine Present: Y (N) NA

Cl Strips: Y (N) NA

Sample pH Acceptable: Y (N) NA

pH Strips: Y (N) NA

Sulfide Present: Y (N) NA

Lead Acetate Strips: Y (N) NA

LAB USE ONLY: 92575528

Lab Sample # / Comments: 001, 002, 003, 004, 005

Lab Sample Temperature Info:

Temp Blank Received: Y (N) NA

Therm ID#: **92575528**

Cooler 1 Temp Upon Receipt: **2.1** °C

Cooler 1 Therm Corr. Factor: **0** °C

Cooler 1 Corrected Temp: **2.1** °C

Comments:

Relinquished by/Company: (Signature) *[Signature]* / **GET SOLUTIONS INC.**

Relinquished by/Company: (Signature) *[Signature]*

Relinquished by/Company: (Signature) *[Signature]*

Date/Time: **12/12/21**

Date/Time: **12/12/21 9:20**

Date/Time: **12/12/21 9:20**

Date/Time: **12/12/21 9:20**

Date/Time: **12/12/21 9:20**

Received by/Company: (Signature) *[Signature]*

Received by/Company: (Signature) *[Signature]*

Received by/Company: (Signature) *[Signature]*

Table #: **2546291**

Acctnum: **MTJLAB USE ONLY**

Template: **MTJLAB USE ONLY**

Prelogin: **MTJLAB USE ONLY**

PM: **MTJLAB USE ONLY**


PB: **MTJLAB USE ONLY**

Trip Blank Received: Y (N) NA

HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: **24** of **25**

	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: November 15, 2021
	Document No.:	Page 2 of 2
	F-CAR-CS-033-Rev.08	Issuing Authority: Pace Carolinas Quality Office

***Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.**

Project

WO# : 92575528

PM: RNB

Due Date: 12/14/21

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

CLIENT: 92- GET Solu

****Bottom half of box is to list number of bottles**

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL Plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFB-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9F-40 mL VOA H3PO4 (N/A)	VOAK [3 vials per kit]-5035 kit (N/A)	V/GK [3 vials per kit]-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
1	/	/	/	/	/	/	/	4	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
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11	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
12	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

pH Adjustment Log for Preserved Samples						
Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers).