

STANDARD LEASE APPLICATION: NON-DISCHARGE

1. APPLICANT CONTACT INFORMATION

Applicant	Maine Island Aquaculture, LLC		
Contact Person	Hannah Twombly		
Address	P.O. Box 346		
City	North Haven		
State, Zip	ME, 04853		
County	Knox		
Telephone	(207) 272-3209		
Email	hannahetwombly@gmail.com		
Type of Application	<input checked="" type="checkbox"/> Draft Application [submitted before scoping session session] <input type="checkbox"/> Final Application [submitted after scoping session]		
Dates	Pre-Application Meeting: 5/28/19	Scoping Session:	Draft Application Submitted: 9/26/2019

Note: If applicant is a corporation or a partnership, the "Corporate Applicant Information Document" available at: <http://www.maine.gov/dmr/aquaculture/forms/standard.html> must also be completed.

Please find Corporate Application Form attached on pages 26-29. The Certificate of Formation can be found immediately following, on pages 30-31.

2. PROPOSED LEASE SITE INFORMATION

Location of Proposed Lease Site	
Town	North Haven
Waterbody	Marsh Cove
General Description (e.g. south of B Island)	Southwest of Hog Island
Lease Information	
Total acreage requested (100-acre maximum)	15 acres
Lease term requested (20-year maximum)	20 years

Type of culture (check all that apply)	<input type="checkbox"/> Bottom (no gear) <input checked="" type="checkbox"/> Suspended (gear in the water and/or on the bottom)
Is any portion of the proposed lease site above mean low water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Note: If you selected yes, you need to complete the steps outlined in the section titled: "19. Landowner/Municipal Permission Requirements".

3. WATER QUALITY

Directions: Water Quality Information can be found here: <http://www.maine.gov/dmr/shellfish-sanitation-management/closures/pollution.html>

Pollution Area (e.g. "19-A"):	30-I
Pollution Area Section (e.g. "B.2". or "none"):	None
Water Quality Classification (e.g approved, restricted, etc.):	Approved

Note: If you are proposing to grow molluscan shellfish in waters classified as anything other than open/approved, you will need to contact the Bureau of Public Health to discuss your plans at the following email: DMRPublicHealthDiv@maine.gov

4. SPECIES INFORMATION

A. Please complete the table below and add additional rows as needed.

Name of species to be cultivated (include both common and scientific names):	Name and address of the source of seed stock, juveniles, and/or smolts	Maximum number (or biomass) of organisms you anticipate on the site at any given time
1. Atlantic Sea Scallops (<i>Placopecten magelanicus</i>)	Seed collected by various individuals in Penobscot Bay with spat collector licenses 1. Connor O'Neil P.O. Box 346 North Haven, ME 04853 2. Marsden Brewer 88 N. Stonington Rd. Stonington, ME 04681 3. Peter Miller and Merritt Carey P.O. Box 486 Tenants Harbor, ME 04860	200,000 individuals
2. Sugar Kelp (<i>Saccharina latissima</i>)	1. Atlantic Sea Farms 89 Industrial Park Rd. Saco, ME 04072 2. Springtide Seaweed 14 Factory Rd Gouldsboro, ME 04607	200,000 lbs
3. Dulse (<i>Palmaria palmata</i>)	1. Springtide Seaweed 14 Factory Rd Gouldsboro, ME 04607	200,000lbs

4. Alaria (Alaria esculenta)	1. Springtide Seaweed 14 Factory Rd Gouldsboro, ME 04607	200,000lbs
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B. Do you intend to possess, transport, or sell whole or roe-on scallops? ☒ Yes ☐ No

If you answered "yes" please contact the Bureau of Public Health to discuss you plans at the following email: DMRPublicHealthDiv@maine.gov

***We have contacted Kohl Kanwit in regards to a Memorandum of Understanding.**

Note: If you are proposing to grow molluscan shellfish, this application also serves as your written operational plan as required in the National Shellfish Sanitation Program (NSSP) Model Ordinance Chapter 2, and must be maintained in your files. If you wish to submit an operational plan separate from this application, please contact: DMRPublicHealthDiv@maine.gov

5. VICINITY MAP

Note: Please label as: 'Vicinity Map'. **Please find attached on page 32.**

Directions: Using a NOAA Chart or USGS topographic map, show the area within a minimum of one-half mile of the proposed lease site.

The map needs to display the following:

- The waters, shore lands, and lines of mean high and mean low water within the general area of the lease
- An arrow indicating true north
- A scale bar
- The approximate lease boundaries

6. BOUNDARY DRAWING

Note: Please label as: 'Boundary Drawing'. **Please find attached on page 33.**

Directions: Depict the boundaries of the proposed lease site. Provide a drawing with all corners, directions, and distances labeled. Provide coordinates for each corner as follows:

- Coordinate Description

Provide geographic coordinates for each corner of the lease site in latitude and longitude as accurately as possible (e.g., to the nearest second or fraction of a second). Identify the datum from the map, chart, or GPS unit used to develop these coordinates. The datum will be shown on the map or chart you are using. The Coordinate Description may be provided separately from the Boundary Drawing.

7. SITE DEVELOPMENT

Directions: If your operations require the use of cages, nets, ropes, trays, or any object (structure) other than the organism to be grown directly on the bottom or buoys to mark the corners of the lease site, you must submit gear drawings and maximum structure schematics (information below). This section is intended to provide accurate plans depicting the physical structures to be placed in the proposed area. All dimensions need to be labeled with the appropriate units (i.e. 10ft, 10in). If you are proposing a bottom lease (no gear), please skip to question "F. Marking".

Note: You may embed the schematics within the document, or attach them to the end of your application. If you attach the schematics, please label them according to the instructions provided below.

A. Gear Information

Directions: Include a drawing of an individual piece of gear for each of the gear type(s) you plan to use. Include units referenced (i.e. 10in, 10ft, etc.).

1. **Gear Drawing:** Please include the following for each gear type that will hold organisms to be cultured (e.g. Polar circles, marine algae longlines, oyster cages) and label as "Gear Drawing". This view must show the following:

- Length, width, and height of each gear type.

Please find attached on pages 34-37.

2. **Gear Table:** List and describe each individual gear type that you will use in the table below. Only include gear that will hold organisms to be cultured (e.g. Polar circles, marine algae longline, oyster cages).

Specific Gear Type (e.g. soft mesh bag)	Dimensions (e.g. 16"x20"x2")	Time of year gear will be deployed (e.g. Spring, Winter, etc.)	Maximum amount of this gear type that will be deployed on the site (i.e. 200 cages, 100 lantern nets, etc.)	Species that will be grown using this gear type
8-bag Oyster Condo	45"x 36"x 22.5"	year round	60	scallops
Lantern nets	6'x18"x 18"	year round	960	scallops

Hard mesh Oyster bags	17.25"x 36.5"x 4"	year round	480	scallops
Fishing Line	3/8" x 800'	Nov-June	16,000 ft	marine algae

B. Maximum Structure and Mooring System Schematic

Directions: Include drawings of your maximum gear layout. Include units referenced (i.e. 10in, 10ft, etc.).

1. **Overhead View.** Please include the following and label as "Overhead View":
 - Maximum layout of gear, including moorings.
 - Length and width of project.
 - Approximate spacing between gear.
 - Lease boundaries and the location of proposed corner markers and any additional gear markers that would be present.

Please find attached on page 38.

2. **Cross-Section View.** Please include the following and label as "Cross-Section View":
 - The sea bottom.
 - Profile of gear in cross-section as it will be deployed.
 - Label gear with dimensions and materials.
 - Show mooring gear with mooring type, scope, hardware, and line type and size.
 - Depth of gear in relation to the water's surface at mean low water and mean high water (if applicable).

Note: Please include an additional Cross Section View, depicting the elements listed below, if there will be seasonal changes to gear layout (i.e. over wintering).

Please find attached on pages 39-41.

C. On-Site Support Structures

1. Describe structures such as barges, sheds, etc., to be located on-site. Provide a schematic and indicate the dimensions, including height above sea level, materials, etc.

We will have a 30'x14' barge that we will take to and from the site while working. No structures will be fixed on the site.

2. Describe the storage and use of oil, gasoline or other hazardous materials on this facility. If petroleum products are to be stored on site, provide a spill prevention plan.

The boat is powered by a gasoline outboard engine, and the barge may include a diesel generator. No petroleum products will be stored on site.

D. Gear Color

Provide the color of the gear and structures proposed to be used at the lease site.

White mooring balls and pot buoys will be all that is visible from the surface.

E. Equipment Layout

Provide schematic or photographic renderings of the generalized layout of the equipment as depicted from two vantage points on the water. Provide the locations of the two vantage points. Please find attached on pages 42-43.

F. Marking

Will you be able to mark your site in accordance with DMR regulations, Chapter 2.80?

☒ Yes ☐ No

If you answered no, explain why and suggest alternate markings.



Note: If a lease is granted, you will also be required to mark the site in accordance with appropriate US Coast Guard Regulations. If you have questions about US Coast Guard Regulations contact: 1st Coast Guard District, Aids to Navigation Office ((617)-223-3293).

8. PRODUCTION ACTIVITIES

Directions: If you are cultivating more than one species, you will need to provide information for each species. Please attach additional pages if needed.

A. Please explain your proposed seeding activities. What months will seeding occur and how often will you be onsite to seed during this time.

Scallops: Seed will be collected by setting spat bags using a spat collector license during the months of September and October (off site). Spat bags will be brought into the proposed lease site during the months of November and December where they will remain untouched until May and June. We will be onsite for 1-2 days at this time to overwinter the spat. Seed will be sorted out of the spat bags and into lantern nets and bottom cages during both the spring and fall. We will be on site sorting spat for 1-2 weeks during these times.

Marine algae: Long lines will be seeded in the month of December. We will be on site for 1-2 days at this time. We will play with a few different types of kelp (sugar kelp, dulse, alaria), and will likely not have more than 200,000 lbs total at a time, but the amount of each individual species year to year may change.

B. Please explain your proposed tending/maintenance activities.

Scallops: Cleaning and sorting the lantern nets. Cleaning will be done with a pressure washer and the sorting will be done with an electric sorter.

Marine algae: No maintenance needed. We will only tend to the marine algae if there are any problems with our gear (tangling, more flotation needed, etc.)

C. How frequently will you visit/tend the site for routine tending/maintenance (i.e. flipping cages, etc.)?

Scallops: Maintenance will take place 3-4 times a year (spring, summer, fall). Likely during the months of March, July, and October. We estimate we will be sorting/cleaning for one week per 800' long line (we are beginning with one long line, and at maximum working up to four) during each of these times. Thus, we will spend 1-4 weeks maintaining the gear in the spring, summer, and fall. In addition, we may visit the site 1-2 times a week to inspect our gear and be sure the long lines are tending well.

Marine algae: We will likely check on the long lines every 2 weeks, and after strong tides or storms. Other than that no maintenance is needed on the kelp long lines. Thus depending on weather, we could visit the site every 1-2 weeks.

D. Describe the harvesting techniques you will use. If you plan on using a drag, please provide the dimension

Scallops: To harvest, we will use a hauler to pull up our submerged long line and will empty out each lantern net by hand.

Marine algae: We will work our way down the long line cutting the kelp off of the line and securing it in the boat.

E. How often will you be at the site during harvesting periods?

Scallops: We plan to be harvesting at most weekly from December-May. During the summer and fall our harvesting frequency will vary depending on the results of biotoxin testing, demand, and how much product we have, but at most we will be harvesting 5 days a week June-November.

Marine algae: We plan to harvest for one week in early June.

F. Will gear be on the site year-round? ☒ Yes ☐ No

G. If no, please describe any overwintering or "off season" plans for the site. For example, will you remove gear from the site and/or deploy gear in different areas within the proposed site? Please include where gear or product will be located if removed from the site.

Marine Algae: June-November we will remove our long lines and all that will remain in this section will be our moorings.

9. NOISE AND LIGHT

Directions: If a question does not pertain to your proposed operations, please write "not applicable" or "N/A."

A. What type of boats will be used on the site? When and how often will these vessels be on site?

We have a 22' Sisu and plan to have a 30'x14' work platform that we will push with the outboard. These vessels will be on the site anytime we are working there.

B. What type of powered equipment (e.g. generator, power washer, grading equipment, barges, etc.) will be used on the site? When and how often will the equipment be used?

We plan to have a 30'x14' barge pushed by our outboard, a diesel powered generator on the barge, an electric sorting machine, an electric hauler, a power washer, and a mast and boom. We will use the sorting machine, power washer, and generator periodically when we are sorting and cleaning (for 1-4 weeks every spring, summer, and fall depending on our stock). We will use the hauler and mast and boom when we need to retrieve our long line each time we visit the site for maintenance and harvesting (maximum of 5 days a week in the summer).

C. Specify how you intend to reduce noise levels from the boats and other powered equipment.

We have a solar panel on the house of our outboard so that we can turn the engine off while running the wash down pump or other equipment when we have sufficient charge. We have also invested in electric equipment in an attempt to reduce noise levels. Additionally, we plan to keep music, if any, to a low volume. Lastly, we plan to build an insulated engine box for the generator to keep noise down.

D. Provide the number, type (whether fixtures are shielded), wattage and location of lights, other than those used for navigation or marking, that will be used at the proposed lease site.

Not applicable

E. Indicate under what circumstances you might work at your site beyond daylight hours.

Only in an emergency to check on the status of the long line if needed.

10. CURRENT OPERATIONS

Directions: If a question does not pertain to your proposed operations, please write "not applicable" or "N/A."

A. Describe your existing aquaculture operations.

We have four LPA's under the ownership of Connor O'Neil. We are currently utilizing one LPA (CONE 118), and plan to increase our size each year as we continue to catch spat. We have set additional moorings to accommodate this expansion with the other three LPA's, and hope to set up a long line and begin utilizing them in the Fall or Spring of 2019.

B. What are your plans for any existing leases and/or Limited Purpose Aquaculture (LPA) licenses if the lease is granted? Will any existing leases and/or LPA licenses be relinquished if the lease is granted? If so, please indicate which ones.

We plan to relinquish each of our LPA's if the lease is granted: CONE 118, 219, 319, and 419.

11. ENVIRONMENTAL CHARACTERIZATION

Directions: Using your knowledge of the area, describe the environment of the proposed lease site. Be sure to include units of measurement in your answers (i.e. feet, cm/s).

A. What are the approximate depths at mean low water?

25-50ft [the variance is due to the variance in depth at the deepest and shallowest locations on the site]

B. What are the approximate depths at mean high water?

35-60ft

C. Provide the approximate current speed and direction during the ebb and flow.

Current speed: 0.49 ft/sec

Current direction: Southeast - Northwest

D. The following questions (D.1 through D.6) may be answered in writing or by submitting a video. If you plan to submit a video, please contact the Department prior to video collection.

1. What are the bottom characteristics (mud, sand, gravel, rock, ledge or some mix, etc.)?

Gravel/mud/mixed

2. Describe the bottom topography (flat, steep rough, etc.).

Relatively flat, sloping into a trench

3. Describe marine organisms by species or common names. Based on your personal observations or other sources of information, are these species abundant, common, or rare?

Sea squirts- abundant
Starfish- common
Green Crab- common
Rock Crab- abundant
Sand Crab- abundant
Lobster- common
Sea sponge- common

4. Are there shellfish beds or fish migration routes in the surrounding area? If so, please describe.

There is nothing that we are aware of.

5. Describe the presence and extent of submerged aquatic vegetation, i.e. eelgrass, within the proposed lease area. Please include the date of this observation along with the method of observation. If submerged aquatic vegetation is observed, please also describe the abundance below and sketch the limits of the beds in the vicinity map.

There is no submerged aquatic vegetation that we are aware of on bottom. Sugar kelp has grown on the gear we have currently in CONE 118.

6. Describe the general shoreline and upland characteristics (rocky shoreline, forested, residential, etc.)

Forested, a segment of sandy/rocky beach, steep ledge, a few seasonal residences.

E. Is your proposed lease located within a Maine Department of Inland Fisheries and Wildlife designated Essential Habitat?

☐ Yes ☒ No

Note: The location of Essential Habitats in the State of Maine, along with information on how projects within these areas are reviewed, can be found here: <https://www.maine.gov/ifw/fish-wildlife/wildlife/endangered-threatened-species/essential-wildlife-habitat/index.html>

If a project is located within an Essential Habitat, applicants are strongly encouraged to contact the MDIFW Environmental Review Coordinator (John.Perry@maine.gov, phone: 207-287-5254) prior to application submission.

12. EXISTING USES

A. Describe the existing uses of the proposed area in questions A.1 through A.5 below. Please include the a) type; b) time of year the activity occurs; c) frequency; and d) proximity to the lease site.

1. Commercial Fishing

Minimal lobster fishing occurs in the proposed area in the spring, summer, and fall. We spoke with Sid and Julie Eaton, who fished in the deep hole where LPA CONE 118 is. They were very amiable and moved their gear several hundred feet away. One other Stonington fisherman had a single string of traps through the proposed site from July-August.

2. Recreational Fishing

We have not observed or heard of any recreational fishing happening in the proposed area.

3. Boating Activities (please also include the distance to any navigable channel(s) from your proposed site at low water).

The cove is removed from the navigable channel, well over 1,000 ft. The only boating activity we have observed in the area is private recreational use.

4. Riparian Ingress/Egress

There are several privately owned motor and sailing boats that are moored in Marsh Cove in the summer months. The closest mooring is 370 ft from the site. These boats are used for a few weeks in the summer months.

5. Other uses (kayaking, swimming, etc.):

We have not observed any other uses in this area, however, during a brief period in the summer there may be a handful of kayakers that cruise by.

B. Are there private docks, moorings, or other access points within 1,000 feet of the proposed lease? If yes, please include approximate distance from proposed lease.

The closest mooring is 370 ft away, and the closest fixed pier is 670ft away.

C. Are there public beaches, parks, docking facilities or federally, state, or municipally conserved lands within 1,000 feet of the proposed lease site? If yes, please describe and include approximate distances from proposed lease.

No.

13. EXCLUSIVE USE

If your lease is granted, what activities would you request be excluded from occurring within the boundaries of the lease site? In your answer please address applicable commercial and recreational fishing, boating activities, and other activities you listed in the 'Existing Uses' section of this application.

We would request that commercial and recreational fishing does not take place on our site. One exception to that would be that we will allow commercial lobster fishing in the Southeastern section of our lease site from July-October, once we have removed our kelp lines. We will delineate this section and be in contact with the commercial fishermen that have historically fished in this area.

14. RIPARIAN LANDOWNERS AND SITE ACCESS

A. If your lease is within 1,000ft of shorefront land (which extends to mean low water or 1,650 ft. from shore, whichever is less), the following supporting documents are required:

1. A labeled copy of a tax map(s) depicting the location of the proposed lease site and including the following elements:

- Label the map "Tax Map: Town of (name of town)."
- Legible scale
- Tax lot numbers clearly displayed
- The boundaries of the proposed lease

Please find the labeled Tax Map attached on page 44.

2. Please use the Riparian Landowner List (included on the next page) to list the name and address of every shorefront landowner within 1,000ft of the proposed lease site. Have the tax collector or clerk of the municipality certify the list.

3. If any portion of the site is intertidal, you need to complete the steps outlined in the section titled: "19. Landowner/Municipal Permission Requirements".

Not applicable

B. Will your access to the lease area be across riparian land?

☐ Yes ☒ No

Note: If you selected yes, you will need to complete the landowner permission requirements included in "19. Landowner/Municipal Permission Requirements" of this application.

C. How will you access the proposed site?

By boat.

D. How will your proposed activities affect riparian ingress and egress?

Our activities will not impact ingress and egress. Boats can come and go over our site as they wish. Only the small section we are working on in any given moment will be above water. If one would prefer to go around our site, there is plenty of room around the perimeter to do so (430ft in the narrowest section between the site and Hog Island).

RIPARIAN LANDOWNER LIST

THIS LIST MUST BE CERTIFIED

On this list, please show the current landowners' names and mailing addresses as listed in the municipal tax records for all riparian shorefront parcels within 1,000 feet of the proposed lease site along with the map and lot number for each parcel. **It is the applicant's responsibility to assemble the information for the Town Clerk to certify.** The Town Clerk only certifies that the information is correct according to the Town's records. Once you have completed the form, ask the Town Clerk to complete the certification section below. If the parcels are within more than one municipality, provide a separate, certified riparian list for each municipality.

TOWN OF: North Haven

MAP #	LOT #	Landowner name(s) and address(es)
22	9	Lucinda Watson - 161 Harrison Ave, Sausalito, CA 94965
28	3 + Hog Island	Norlam Corporation - 30 Long Creek Dr, Portland ME 04106
22	12	Helen Cook - 178 Parsonage Rd, Greenwich, CT 06830
22	2 + 8A	Charles Beveridge - 1204 Russel Rd, Alexandria, VA 22301
22	7 + 8	Norma Merolla - 133 Gilbert Stuart Dr, Warwick RI 02818
22	6	Alan Howe, Richard Howe, Marjorie Brown - 139 Sycamore St, Somerville, MA 02145
22	4 + 4A	Cynthia Kelley - 2625 North 58th St, Scottsdale, AZ 85257
22	3	Rose Christiansen - PO Box 205, Rogers, ND 58479
22	2D	Elena Baylis + Donald Munro - 3914 Huntington St NW, Washington DC 20015
13	4F	Thomas Duff - 39 County Rd, Essex, MA 01929
13	4E	Katherine Beveridge - 952 Bar Harbor Rd, Trenton, ME 04605
13	4D	Lyford Beverage, Albion Beverage, Grace Ball - 1916 Myrtle Ave, Punta Gorda, FL 33950
13	4C	Marion L. Mann - 266 Beechwood Dr, Rosemont, PA 19010

Please use additional sheets if necessary and attach hereto.

CERTIFICATION

I, Kathleen S. Macy, Town Clerk for the Town of North Haven certify that the names and addresses of the property owners listed above, as well as the map and lot numbers, are those listed in the records of this municipality and are current as of this date.

SIGNED: Kathleen S. Macy DATE: 1/23/2020

15. TECHNICAL CAPABILITY

Provide information regarding professional expertise. Attaching resume or documentation of practical experience necessary to accomplish the proposed project would satisfy this requirement.

Hannah Twombly

- **Colby College '16** Bachelor of Arts Environmental Policy; Minor in Managerial Economics
- **Gulf of Maine Research Institute**, Intern '14, Compiled shellfish data to determine sustainability of the various shellfish fisheries.
- Stern woman on a lobster boat in North Haven, ME

Connor O'Neil

- **Colby College '15** Bachelor of Arts Environmental Policy
- Stern man on a lobster boat in North Haven, ME
- Work experience at Browns Boatyard (North Haven, ME)
- Experience digging clams in Freeport, ME
- Worked with DEI and Dr. Brian Beal to conduct research on the impact of invasive green crabs on soft shell clam populations in Freeport, ME

Please find full resume's attached if more detailed information is desired; pages 45-46.

16. FINANCIAL CAPABILITY

A. Financial Capability

Please provide documentation to demonstrate you have the financial resources to implement the proposal. For example, you may submit a letter from a financial institution or funding agency indicating that you have an account in good standing, or their willingness to commit funds.

Note: Any financial information you submit with your application is part of the public record. Please exercise discretion when submitting financial information.

Please find letters attached on pages 47-48.

B. Cost Estimates

Please provide cost estimates of the proposed aquaculture activities.

Scallops: Roughly \$11,000 per scallop long line (800'), including all gear necessary. Total cost for four long lines is \$44,000.

Kelp: Roughly \$1,270 per kelp long line (800'). Total cost for the maximum number of kelp long lines we would have (20 lines) is \$25,400.

Total cost comes to \$69,400.

17. ESCROW ACCOUNT OR PERFORMANCE BOND

Check the category that describes your operation:

Check Here	Lease Category	Amount of Required Escrow or Performance Bond
	No gear/structure, no discharge	None
	No gear/structure, discharge	\$500.00
	≤ 400 square feet of gear/structure, no discharge	\$1,500.00
X	>400 square feet of gear/structure, no discharge	\$5,000.00*
	Gear/Structure, discharge	\$25,000.00

*DMR may increase the bond/escrow requirements for leases with more than 2,000 square feet of structure.

I, (printed name of applicant) Maine Island Aquaculture, LLC have read DMR Aquaculture Regulations Chapter 2.64(10) (D) and if this proposed lease is granted by DMR, I will either open an escrow account or obtain a performance bond, in the amount determined by the lease category.



Manager/Member

12/10/19

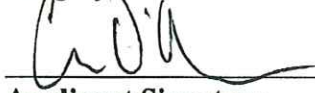
Applicant Signature

Date

Note: Add title if signing on behalf of a corporate applicant.

ADDITIONAL APPLICANTS: Each applicant must sign this section indicating that they will open an escrow account or obtain a performance bond. Use the space below for additional persons listed on the application. You may attach additional pages, if necessary.

I, (printed name of applicant) Maine Island Aquaculture, LLC have read DMR Aquaculture Regulations Chapter 2.64(10) (D) and if this proposed lease is granted by DMR, I will either open an escrow account or obtain a performance bond, in the amount determined by the lease category.



12/10/19

Applicant Signature

Date

Note: Add title if signing on behalf of a corporate applicant.

18. APPLICANT SIGNATURE PAGE

I hereby state that the information included in this application is true and correct. I have also read and understand the requirements of the Department's rules governing aquaculture and the application instructions pertaining to the standard lease process.

Printed name: Maine Island Aquaculture, LLC

Title (if corporate applicant): Manager / Member

Signature:  Date: 12/10/19

18 U.S.C. Section 1001 provides that: Whoever, in any manner within the jurisdiction of any department or agency of the United States knowingly and willfully falsifies, conceals, or covers up any trick, scheme, or disguises a material fact or makes any false, fictitious or fraudulent statements or representations or makes or uses any false writing or document knowing same to contain any false, fictitious or fraudulent statements or entry, shall be fined not more than \$10,000 or imprisoned not more than five years or both.

Note:

- All applicants must sign and date this page. Please use the space below, if additional signatures are required.
- Corporate applicants, please be sure to include the title(s) (i.e. President, Treasurer, etc.) of the individual(s) signing on the company's behalf.

Additional Applicant:

Printed name: Maine Island Aquaculture, LLC

Title (if corporate applicant): Manager / Member

Signature:  Date: 12/10/19

19. LANDOWNER/MUNICIPAL PERMISSION REQUIREMENTS (if applicable)

Directions: If any portion of the site is intertidal, you need to complete the steps outlined below.

Not Applicable

Step I: Obtain written permission from all intertidal landowners.

Pursuant to DMR Regulations Chapter 2.10(3)(G) the Department requires *written permission of every owner of intertidal land in, on, or over which the activity will occur*. It is your responsibility to obtain written permission and include it with your application materials. Please note that the Department does not provide forms for landowner permission.

Step II: Determine if the municipality where your site is located has a shellfish conservation program.

Pursuant to 12 MRSA §6072(3) *In any municipality with a shellfish conservation program under section 6671, the Commissioner may not lease areas in the **intertidal zone** within the municipality without the consent of the municipal officers.*

If the municipality where the proposed lease site is located has a shellfish conservation program, it is your responsibility to obtain consent for the proposed lease site from the municipal officers (i.e. the selectmen or councilors of the town, or the mayor and aldermen or councilors of a city.) Consent means a majority vote of the municipal officers as recorded in a public meeting.

It is your responsibility to contact the municipality and determine if they have a shellfish conservation program. Best practices would include discussing your plans with shellfish committee members, but only the consent of municipal officers is required.

Does the municipality, where the proposed site is located, have a shellfish conservation program? ☐ Yes ☐ No

If you answered yes, please attach documentation from a public meeting demonstrating that a majority of municipal officers have consented to your proposal.



MAINE DEPARTMENT OF MARINE RESOURCES

Aquaculture Division, 21 State House Station, Augusta, ME 04333-0021 (207) 624-6567

CORPORATE APPLICANT FORM

For Standard and Experimental Aquaculture Lease Applications

Corporations or partnerships that apply for aquaculture leases in the State of Maine must complete this form. Corporations must submit information as requested under A. Corporate Applicant. Partnerships must submit information as requested under B. Partnership Applicant.

A. Corporate Applicant

Note: You must attach a copy of the Articles of Incorporation (Inc.) or Certificate of Formation (LLC) to your application.

1. Name of Corporation: Maine Island Aquaculture, LLC

2. Date of incorporation: 5/17/18 State of incorporation: Maine

3. List the names, addresses, and titles of all officers:

Name	Address	Title
N/A		

Please use additional sheets if necessary and attach to the application.

4. List the names and addresses of all directors/members:

Name	Address
Hannah Twombly	P.O. Box 346, North Haven, ME 04853
Connor O'Neil	P.O. Box 346, North Haven, ME 04853

Please use additional sheets if necessary and attach to the application.

5. Has the corporation, or any stockholder, director, or officer applied for an aquaculture lease for Maine lands in the past? ☐ Yes ☒ No

If you selected "yes," please indicate who applied for the lease and the status of the application or lease.

6. List the names and addresses of all stockholders who own or control at least 5% of the outstanding stock and the percentage of outstanding stock currently owned or controlled by each stockholder.

Name	Address	Percentage of Owned Stock
N/A		

Please use additional sheets if necessary and attach to the application.

7. List the names and addresses of stockholders, directors, or officers owning an interest, either directly or beneficially, in any other Maine aquaculture leases, as well as the quantity of acreage from existing aquaculture leases attributed to each such person. If none, write, "None."

Name	Address	Lease Acronym	Acreage
N/A			

Please use additional sheets if necessary and attach to the application.

8. Has the corporation or any officer, director, member, or shareholder listed in item 5 above ever been arrested, indicted, convicted of, or adjudicated to be responsible for any violation of any marine resources or environmental protection law, whether state or federal?

☐ Yes ☒ No

If you selected "yes", please provide details.

B. Partnership Applicant

Note: You must attach a copy of either the Certificate of Limited Partnership or documentation of the formation of a General Partnership to your application.

1. Name of Partnership: _____

2. Date of formation: _____ State of partnership: _____

3. List the names, addresses, and ownership shares of all partners:

Name	Address	Ownership Shares

Please use additional sheets if necessary and attach to the application.

4. Has the partnership, or any partner applied for an aquaculture lease for Maine lands in the past? ☐ Yes ☐ No

If you selected "yes," please indicate who applied for the lease and the status of the application or lease.

5. List the names and addresses of any partner owning an interest, either directly or beneficially, in any other Maine aquaculture leases, as well as the quantity of acreage from existing aquaculture leases attributed to each such person.

Name	Address	Lease Acronym	Acreage

Please use additional sheets if necessary and attach to the application.

6. Has the partnership or any partner been arrested, indicted or convicted of or adjudicated to be responsible for any violation of marine resources or environmental protection law, whether State or Federal?

☐ Yes ☐ No

If you selected "yes", please provide details.

MAINE
LIMITED LIABILITY COMPANY

STATE OF MAINE

CERTIFICATE OF FORMATION

Filing Fee \$175.00

File No. 20186488DC Pages 2
Fee Paid \$ 175
DCN 2181382260023 DLLC
—FILED—
05/17/2018

Julie L. Flynn
Deputy Secretary of State

A True Copy When Attested By Signature

Deputy Secretary of State

Pursuant to 31 MRSA §1531, the undersigned executes and delivers the following Certificate of Formation:

FIRST: The name of the limited liability company is:

Maine Island Aquaculture, LLC

(A limited liability company name must contain the words "limited liability company" or "limited company" or the abbreviation "L.L.C.," "LLC," "L.C." or "LC" or, in the case of a low-profit limited liability company, "L3C" or "l3c" – see 31 MRSA 1508.)

SECOND: Filing Date: (select one)

☒
☐

Date of this filing; or

Later effective date (specified here): _____

THIRD: Designation as a low profit LLC (Check only if applicable):

☐

This is a low-profit limited liability company pursuant to 31 MRSA §1611 meeting all qualifications set forth here:

- A. The company intends to qualify as a low-profit limited liability company;
- B. The company must at all times significantly further the accomplishment of one or more of the charitable or educational purposes within the meaning of Section 170(c)(2)(B) of the Internal Revenue Code of 1986, as it may be amended, revised or succeeded, and must list the specific charitable or educational purposes the company will further;
- C. No significant purpose of the company is the production of income or the appreciation of property. The fact that a person produces significant income or capital appreciation is not, in the absence of other factors, conclusive evidence of a significant purpose involving the production of income or the appreciation of property; and
- D. No purpose of the company is to accomplish one or more political or legislative purpose within the meaning of Section 170(c)(2)(D) of the Internal Revenue Code of 1986, or its successor.

FOURTH: Designation as a professional LLC (Check only if applicable):

☐

This is a professional limited liability company* formed pursuant to 13 MRSA Chapter 22-A to provide the following professional services:

(Type of professional services)

FIFTH: The Registered Agent is a: (select either a Commercial or Noncommercial Registered Agent)

☐ Commercial Registered Agent CRA Public Number: _____

(Name of commercial registered agent)

☒ Noncommercial Registered Agent

Christopher R. Smith

(Name of noncommercial registered agent)

One Portland Square, Portland, ME 04101

(physical location, not P.O. Box – street, city, state and zip code)

P.O. Box 586, Portland, ME 04112-0586

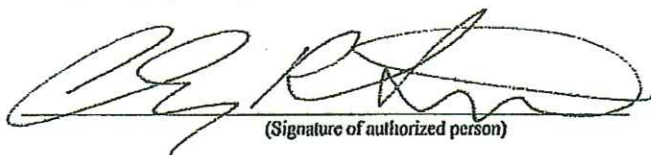
(mailing address if different from above)

SIXTH: Pursuant to 5 MRSA §105.2, the registered agent listed above has consented to serve as the registered agent for this limited liability company.

SEVENTH: Other matters the members determine to include are set forth in the attached Exhibit _____, and made a part hereof.

****Authorized person(s)**

Dated May 15, 2018


(Signature of authorized person)

Christopher R. Smith

(Type or print name of authorized person)

(Signature of authorized person)

(Type or print name of authorized person)

***Examples of professional service limited liability companies are accountants, attorneys, chiropractors, dentists, registered nurses and veterinarians. (This is not an inclusive list – see 13 MRSA §723.7)**

****Pursuant to 31 MRSA §1676.1.A, Certificate of Formation MUST be signed by at least one authorized person.**

The execution of this certificate constitutes an oath or affirmation under the penalties of false swearing under 17-A MRSA §453.

Please remit your payment made payable to the Maine Secretary of State.

Submit completed form to:

Secretary of State

Division of Corporations, UCC and Commissions

101 State House Station

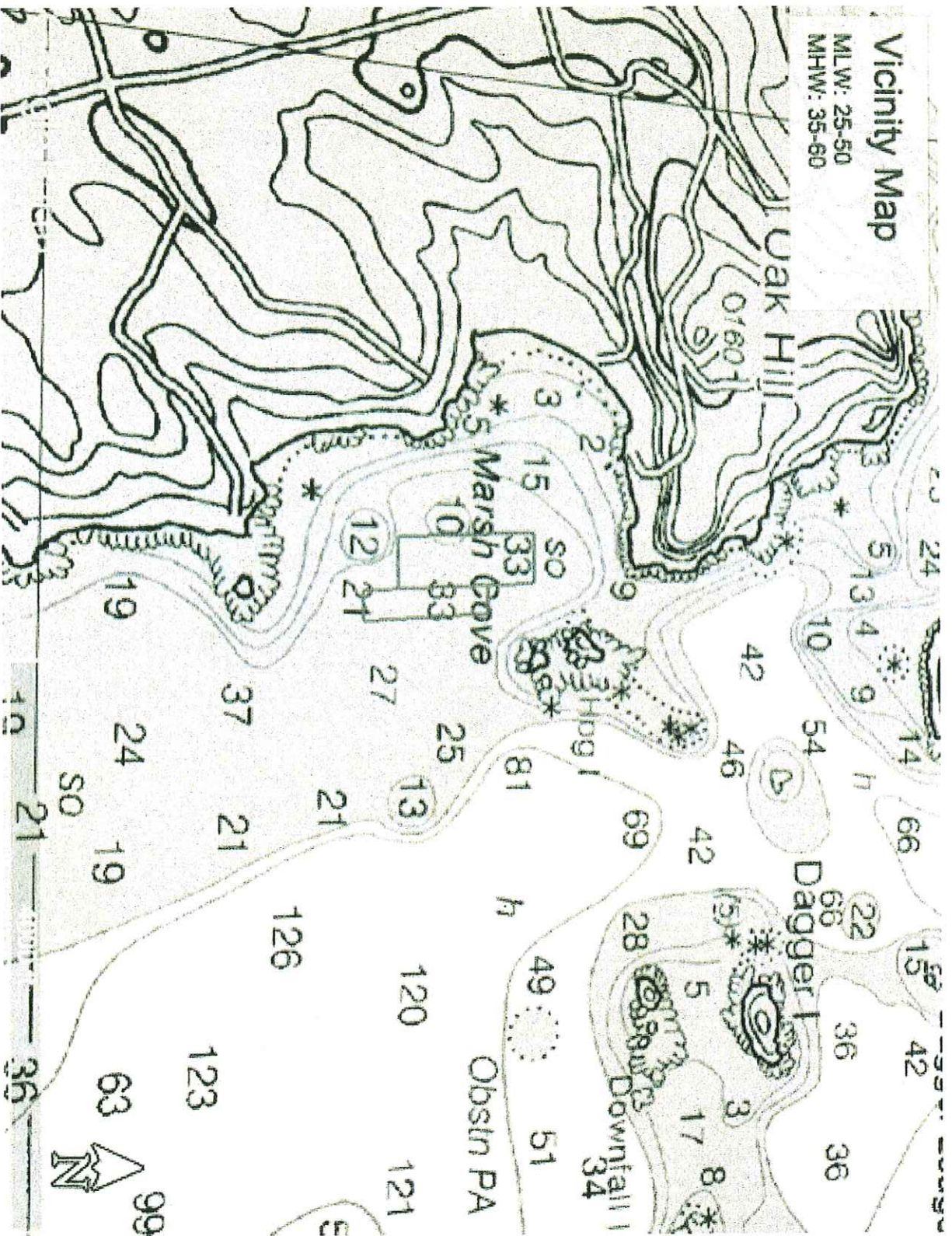
Augusta, ME 04333-0101

Telephone Inquiries: (207) 624-7752

Email Inquiries: CEC.Corporations@Maine.gov

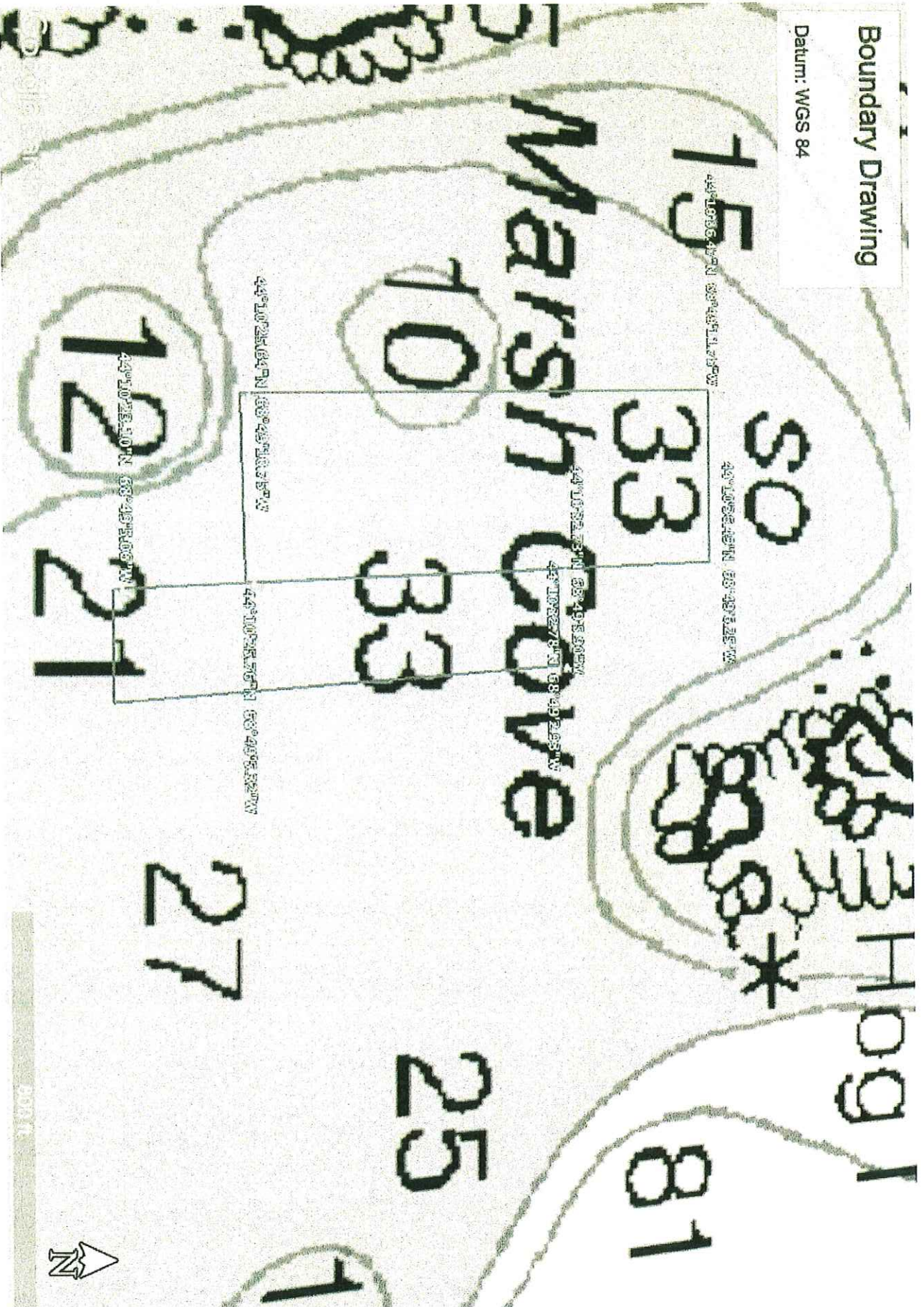
Vicinity Map

MLW: 25-50
MHW: 35-60



Boundary Drawing




Datum: WGS 84

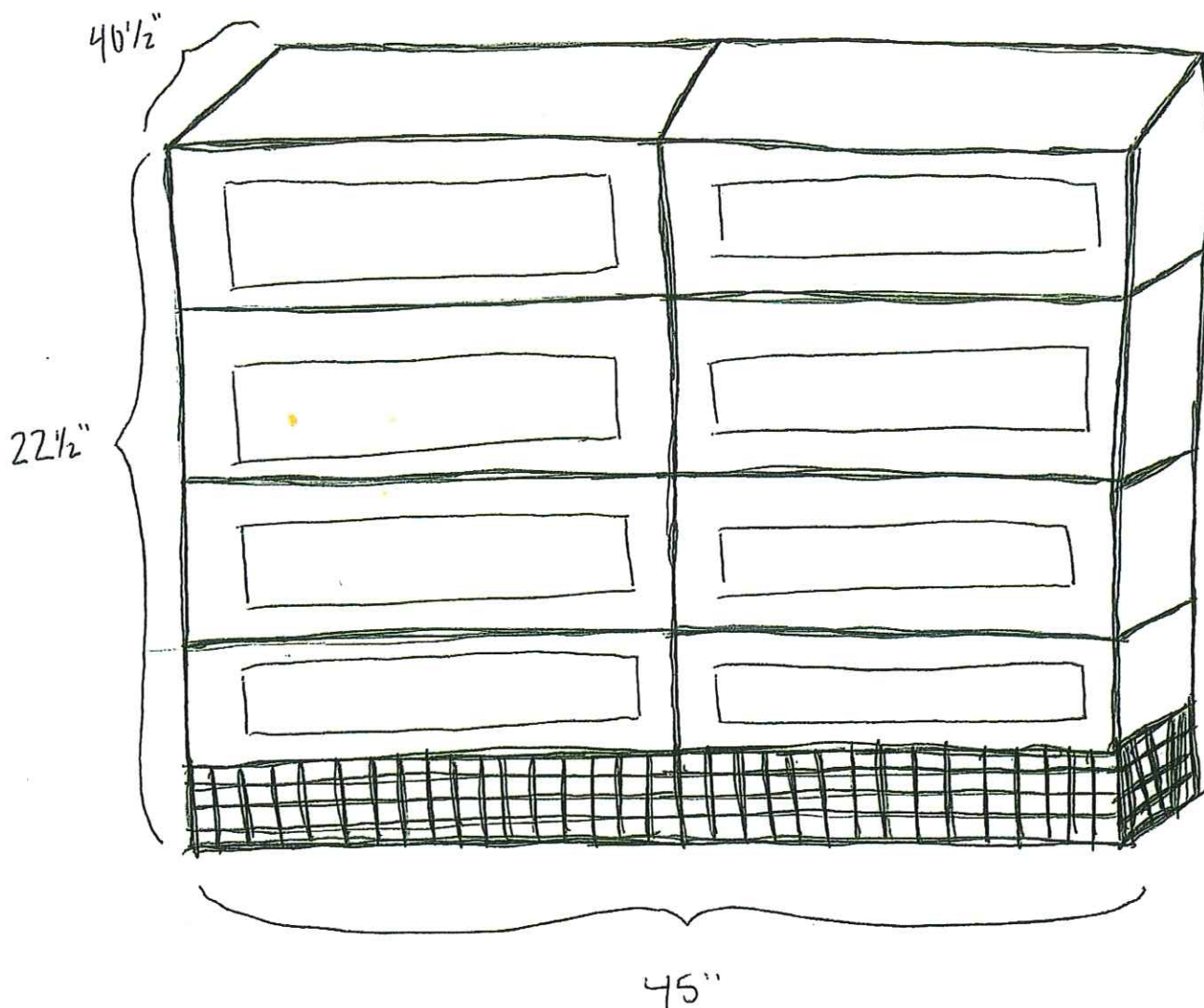


Gear Drawing: 7A1-1

8-bag Oyster Condo
w/ squared bags

Legend

-  = vinyl coated black wire that forms the cage
-  = squared mesh oyster bags that go into open slots in condo *see drawing 7A1-3 for detailed drawing of bags
-  = bottom section of cage. More vinyl coated black wire that lifts cage off of mud




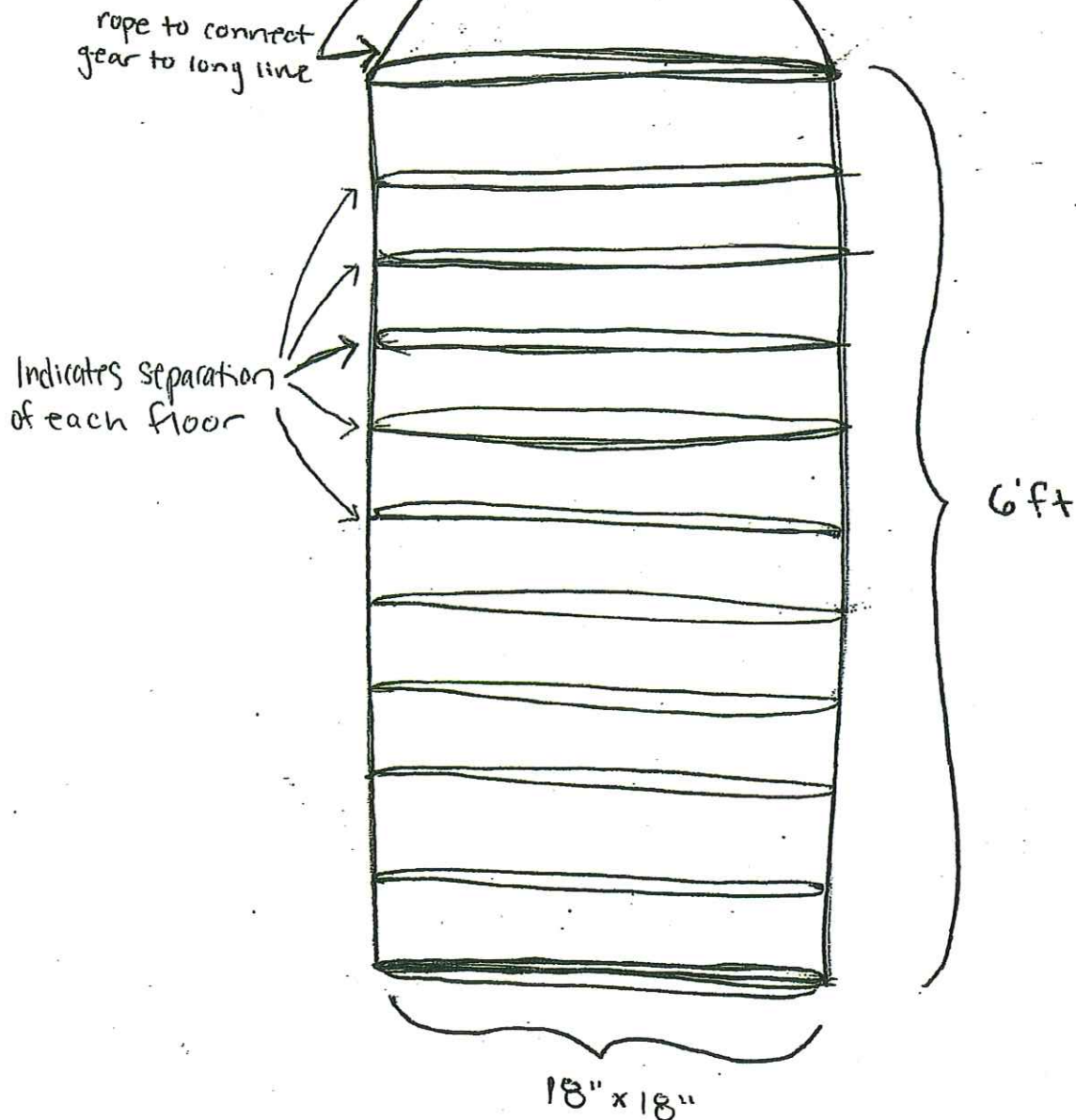
Gear Drawing: 7A1-2

Lantern Net
(10 floors)

6 mil, 9 mil, and 12 mil mesh

The cylindrical net is made
of mesh, and each floor
is also made of mesh

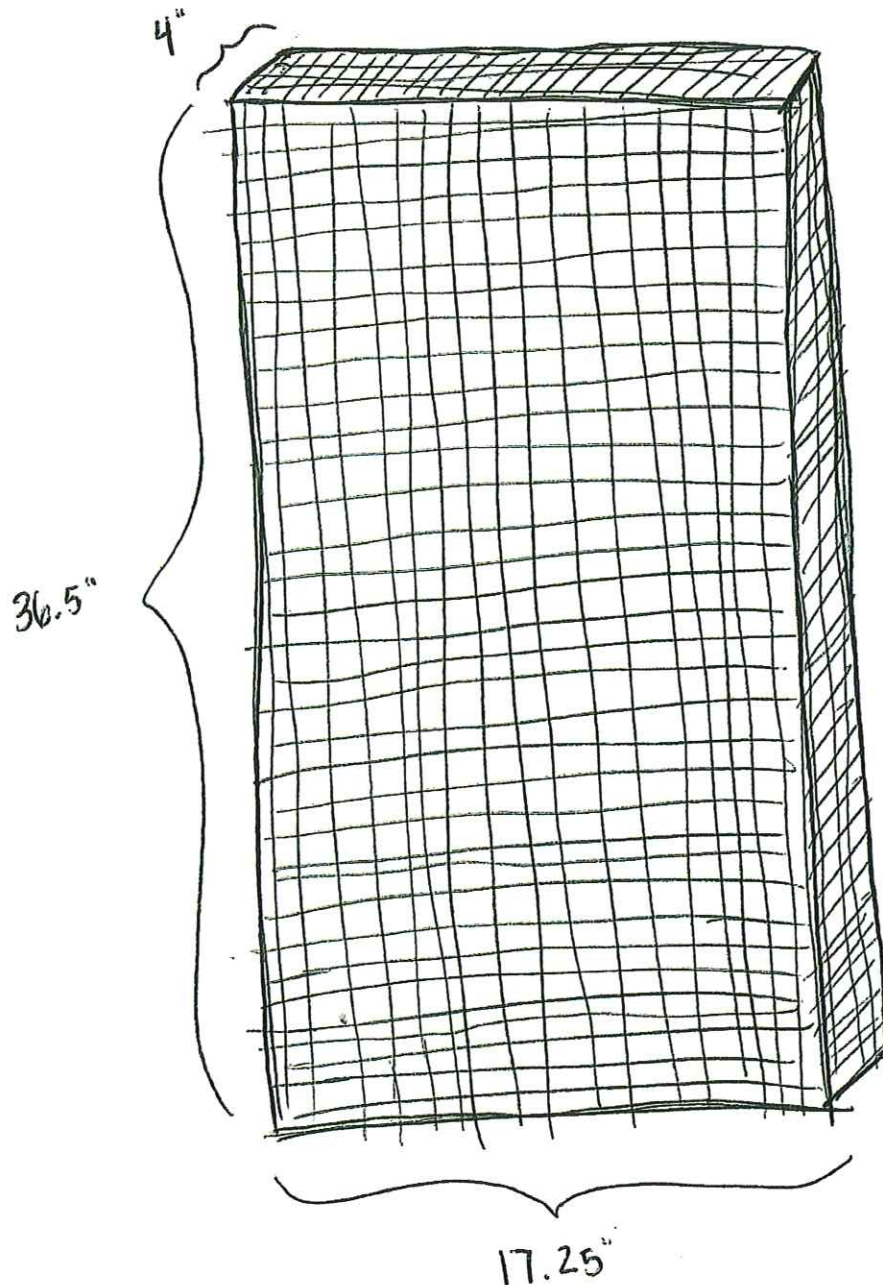
 = floor separator



Gear Drawing: 7A1-3

Squared Oyster Bags

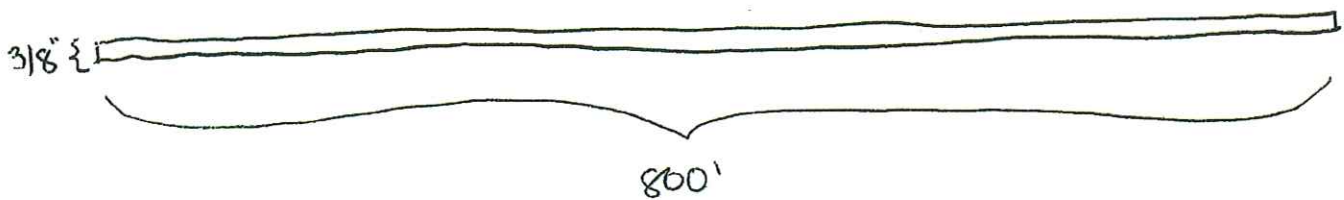
Hard mesh



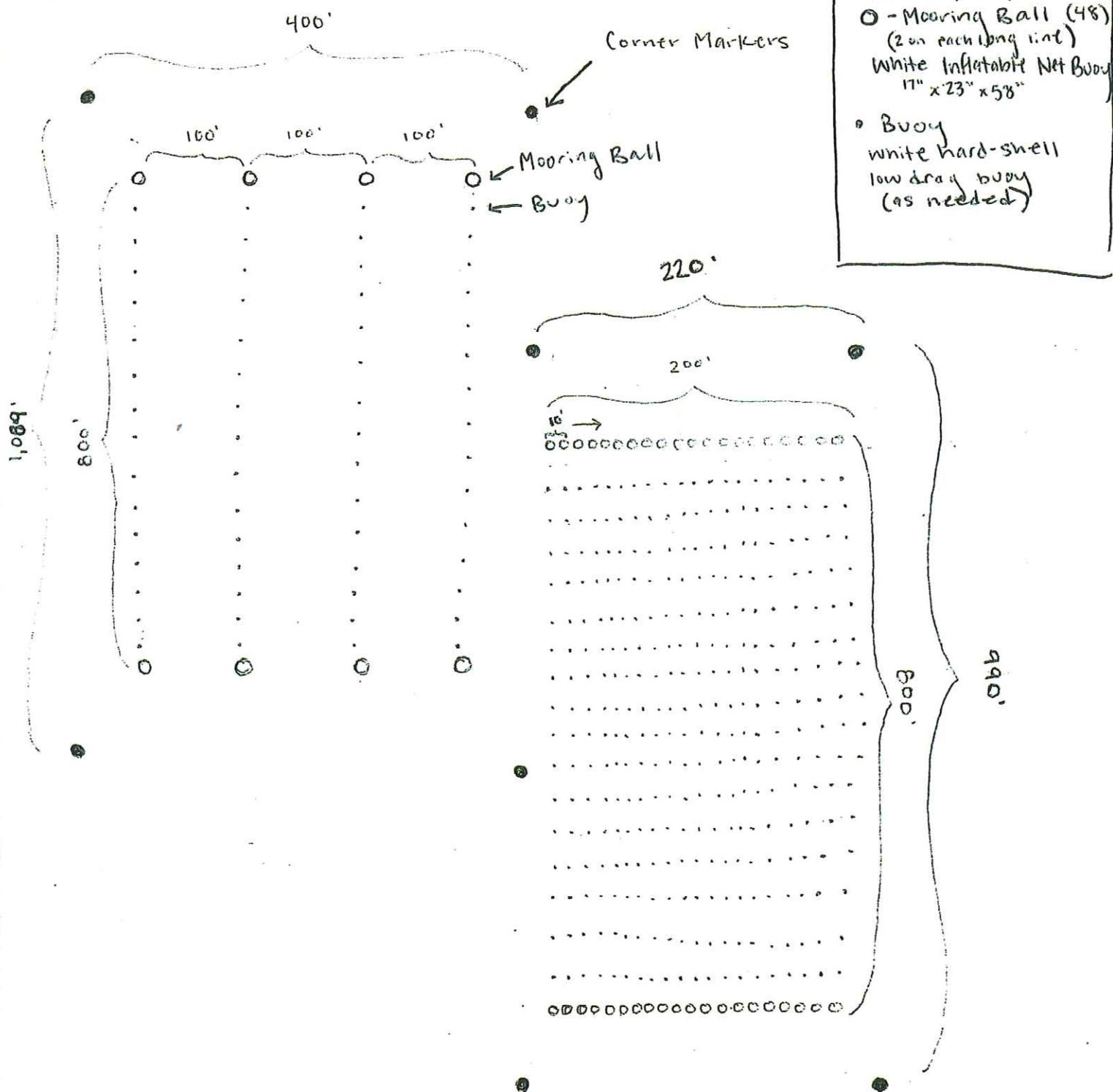
- Grid lines indicate hard mesh
- Oyster bag slides into oyster condo to contain scallops that will be grown on bottom

Gear Drawing: 7A1-4
Fishing line

- Fishing line that will be seeded with kelp
- Long lines will be 800' long



Overhead View: 7B1



Scallop long line



Cross - Section View: 7B2-2A

Kelp Long line

MHW: 40

MLW: 30

200'

Surface

White Inflatable
Net Buoy
11" x 55" x 55" Inflating
Ball

1" x 1/4" x 1/4" rod

Buoys
White Hard-Shell
Low Drag Buoy
7.25" x 2.5"

Mooring
Ball

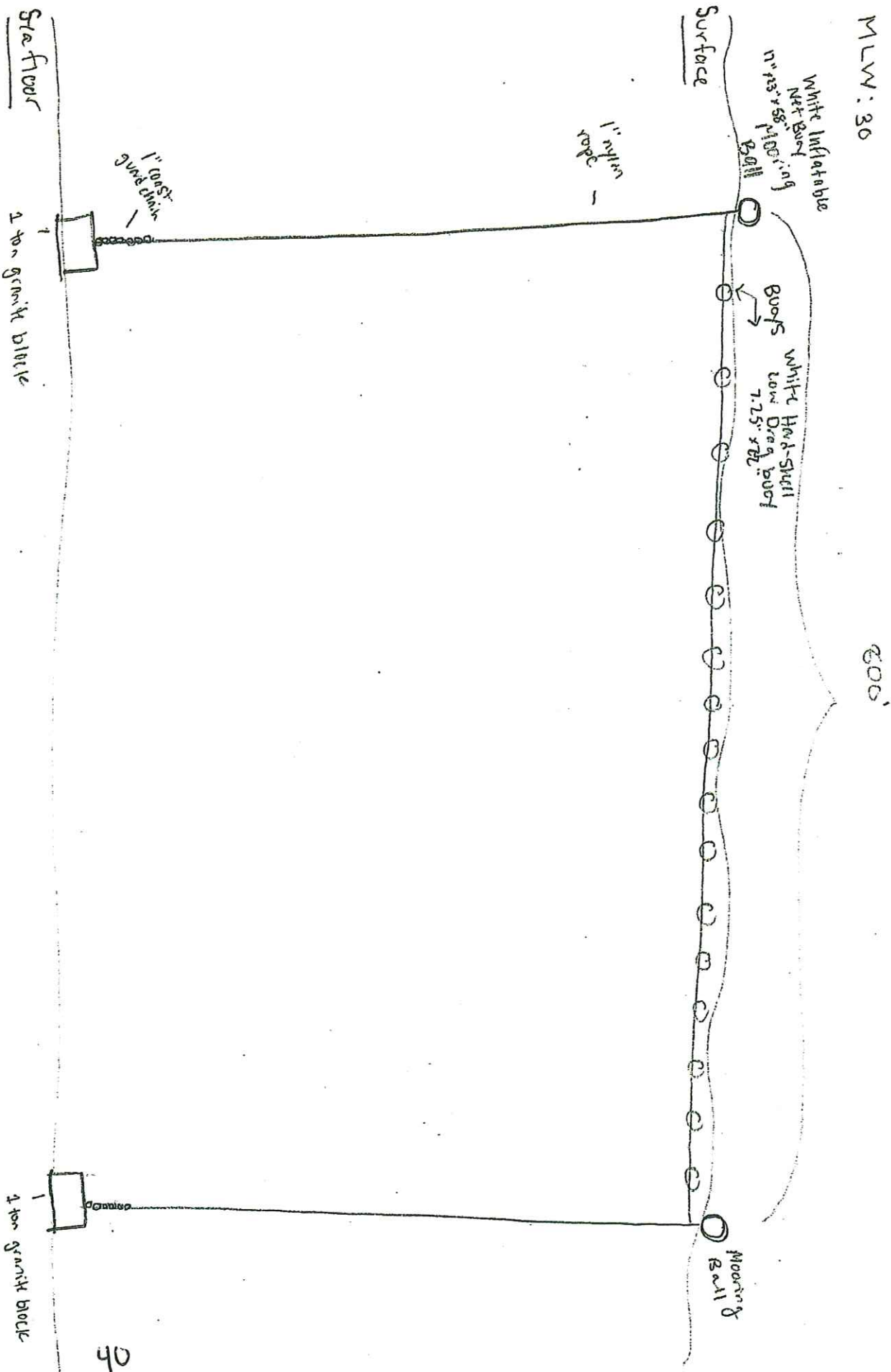
1" Cast-
Iron Ring

Sta floor

2 ton granite block

2 ton granite block

40

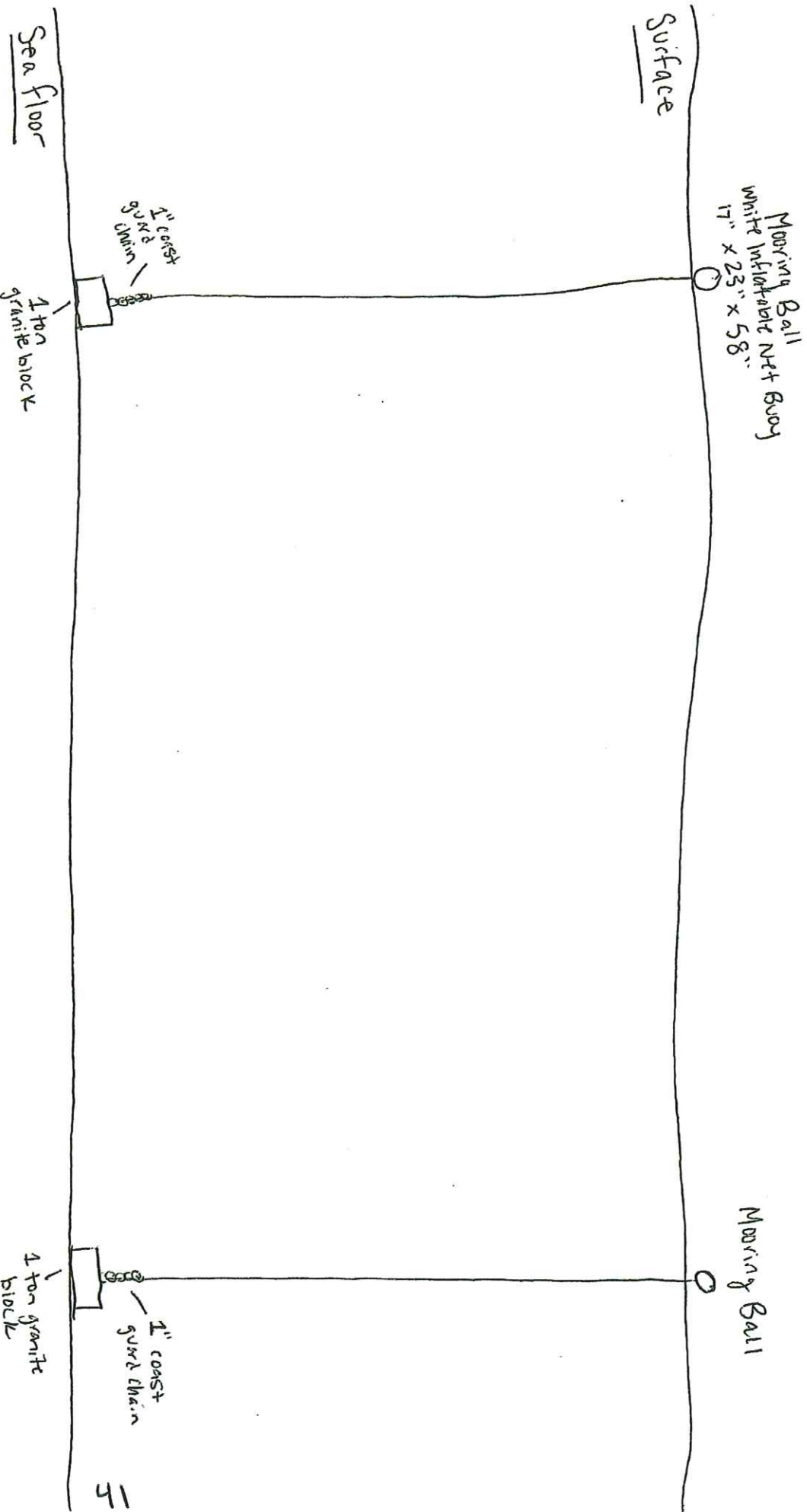


Cross-Section View: 7B2-2B

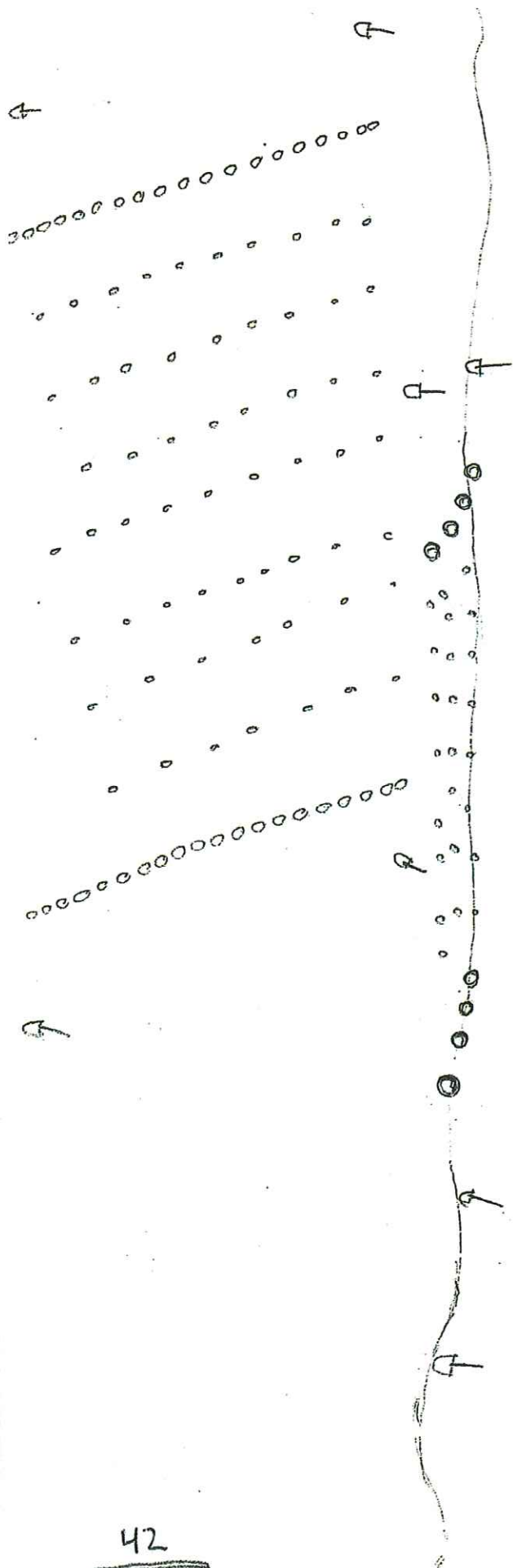
Kelp Long Line: Offseason (June-Nov)

MHW: 40

MLW: 30



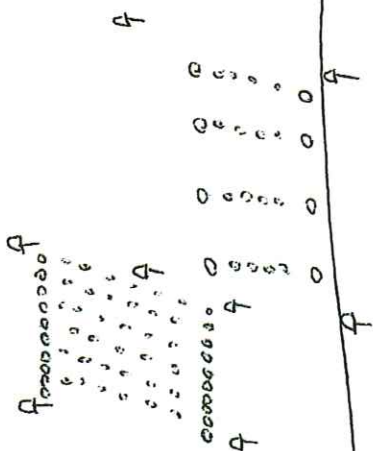
Equipment Layout: 7E
Vantage Point #1:
View from South of Hog Island



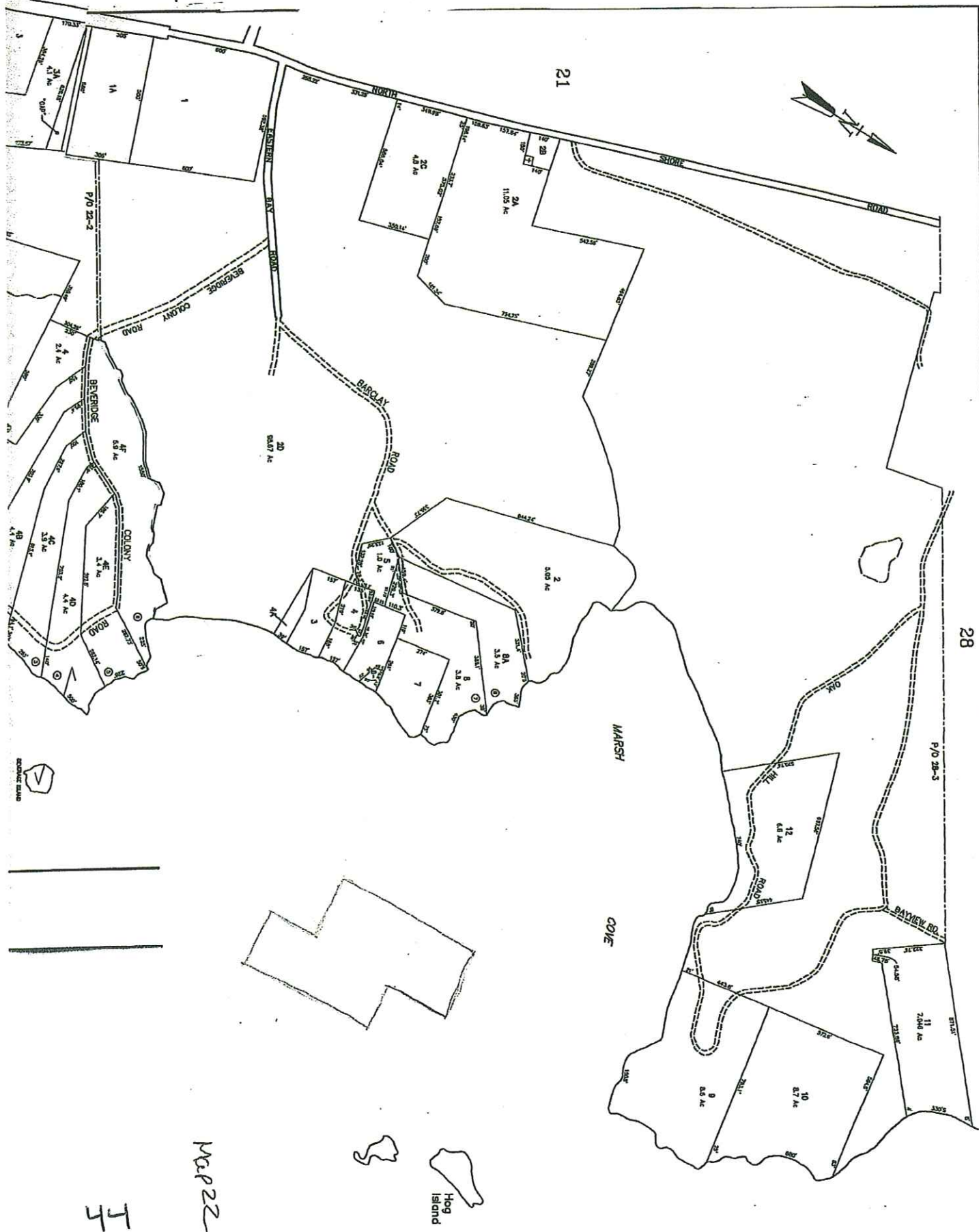
Equipment Layout: 7E

Nantage Point #2:

Northern side of Beverage Island



TAX MAP: Town of North Haven



Map 22

11

HANNAH E. TWOMBLY

hannahetwombly@gmail.com • (207) 272-3209 • P.O. Box 346, North Haven, ME 04853

EDUCATION

Colby College, Waterville, ME, *Bachelor of Arts Environmental Policy; Minor in Economics* May 2016
University of Salamanca, Spain Fall 2012
The Island School, Cape Eleuthera, Bahamas Spring 2011
North Yarmouth Academy, Yarmouth, ME Fall 2008-Spring 2012

EMPLOYMENT EXPERIENCE

Sternman, Lobster boat, North Haven, ME Summer 2019-Present
Administrative Assistant, North Haven Sustainable Housing January 2019-Present
Bartender/Bar Manager, Calderwood Hall, North Haven, ME June 2017- Present
Self-Employed, Yoga Instructor March 2018- Present
Farmhand, Cider Hill Farm, North Haven, ME Fall 2017- Spring 2019
Market Cashier, Calderwood Hall Market, North Haven, ME Summer/Fall 2017
Taproom Bartender, North Haven Brewing Co., North Haven, ME Summer 2017
Ski Instructor, Squaw Valley/Alpine Meadows, CA Winter 2016/17
Hostess, PlumpJack Cafe, Olympic Valley, CA Winter 2016/17
Waitress, The Dockside Grill, Falmouth, ME Summer 2015- 2016
Intern, Natural Resources Council of Maine, Augusta, ME January 2016

- Compiled data and created GIS maps using ArcGIS 10.1
- Conducted research for testimonies to be presented in committee hearings at the State House

Spanish Tutor, Colby College, Waterville, ME Fall 2014- 2015
Intern, Gulf of Maine Research Institute, Portland, ME Summer 2014

- Determined the viability of including shellfish in the GMRI Gulf of Maine Responsibly Harvested Branding Program; developed a final report and presented findings to scientists and staff

Dockhand, Brewer's South Freeport Marine, South Freeport, ME Summer 2010- 2013

LEADERSHIP

Co-president, Environmental Coalition, Colby College Fall 2015- Spring 2016

- Responsible for running meetings, creating the agenda, and being the spokesperson for the club
- Worked with the Environmental Advisory Group to create a college sustainability action plan

Earth Week Coordinator, Environmental Coalition, Colby College Fall 2013- Spring 2016

- Organized educational/social events relating to sustainability during the week of Earth Day

Iced COOT Leader, Colby College Winter 2015

- Leader for an ice climbing orientation trip for incoming first semester abroad freshmen

AWARDS

Coaches Award, Colby Women's Varsity Soccer Team Fall 2015
Captain's Award, Colby Women's Varsity Soccer Team Fall 2014
NESCAC All-Academic, Colby College Fall 2014

COMMUNITY SERVICE

Board Member, North Haven Conservation Partners Fall 2018- Present
Food Recovery Network, Colby College Fall 2015- Spring 2016

- Recovered leftover dining hall food and brought to local soup kitchen

Colby Cares about Kids (CCAK) Mentor, Colby College Fall 2014- Fall 2015

- Mentor for a fourth grade student at the Albert Hall School in Waterville

SKILLS

- Conversational in Spanish
- Proficient with ArcGIS

CONNOR O'NEIL

oneilconnor@gmail.com ♦ (207) 347-1022 ♦ P.O. Box 346, North Haven, ME 04853

EDUCATION

Colby College, Waterville, ME Bachelor of Arts, May, 2015
Major: Environmental Policy
Cheverus High School, Portland, ME Diploma, June 2011

ENVIRONMENT-RELATED WORK EXPERIENCE

Insource Renewables, Pittsfield, ME March 2016 – April 2016
▪ Assisted with administrative/sales work pertaining to solar and heat pump installations
Assured Solar Energy, North Yarmouth, ME October 2015 – February 2016
▪ Installed roof-top and ground-mounted PV systems
Downeast Institute for Applied Marine Research (DEI), Beals Island, ME May 2014 – August 2014
Internship
▪ Conducted research in Freeport, ME focused on understanding the impacts of invasive green crab predation on local shellfish populations

OTHER WORK EXPERIENCE

Sternman, Lobster boat, North Haven, ME Summer/Fall 2018-Present
LaBelle Building, North Haven, ME Winter 2017-18, 2018-19
▪ Carpentry and construction
Brown's Boatyard, North Haven, ME April 2016 – August 2016, June 2017 – Present
▪ Everything from fiber glassing and repairing boats/outboards to selling fuel and miscellaneous items in the store
Ski Instructor, Squaw Valley/Alpine Meadows, CA December 2016 - April 2017
Busser, PlumpJack Cafe December 2016 - April 2017
Ski Instructor, Sugarloaf Mountain Resort, Carrabassett Valley, ME December 2015 – March 2016
Warren Construction Group, Freeport, ME June 2015 – September 2015
▪ Used environmentally sound practices along with manual labor and craftsmanship to assist in building, finishing, and deconstructing homes/other commercial buildings
Self-employed Commercial Shellfish Harvester, Freeport, ME 2012 – 2014
▪ Hand dug soft-shell clams and quahogs to help pay for college
▪ Personally hauled over 5,000 lbs. of invasive green crabs out of the Harraseeket River as part of a town funded project
S&S Seafood, Freeport, ME 2012
▪ Assisted in the purchasing and selling of shellfish
▪ Recorded and maintained organization of transactions
Gritty McDuff's, Freeport, ME 2011
▪ Bussed tables at the restaurant and continued to work off-site lobster bakes
Lobstering, Freeport, ME 2009 – 2010
▪ Fished 10-15 lobster traps from a 20-foot skiff to help pay for high school
▪ Worked off-site lobster bakes for the restaurant Gritty McDuff's

LEADERSHIP

Colby Men's Basketball Team Captain 2013-2015
▪ Named team captain three years in a row

AWARDS

Green Crab Mitigation Competition 2015
▪ Earned \$1,000 prize for ideas on how to mitigate invasive green crabs
On Court Leadership Award 2013 – 2015
▪ Awarded by the Colby Men's Basketball coaching staff

COMMUNITY SERVICE

Freeport Middle School Girl's Basketball Summer 2014
▪ Volunteer coach for 5th through 8th grade girls
Board Member, North Haven Golf Club August 2019- Present

SKILLS

- Hard working, both physically and mentally
- Ability to work with and relate to people from a diversity of economic/social backgrounds
- Attention to detail
- Ability to lead and make decisions in high pressure situations



September 13, 2019

State of Maine
Department of Marine Resources
21 State House Station
Augusta, ME 04333-0021

To Whom It May Concern –

Hannah Twombly maintains a banking relationship with Bank of America and her accounts are in good standing.

Please do not hesitate to contact me for any further information if you have any questions.

Sincerely yours,

Eric A. Lowrey
Managing Director

Bank of America
1 Monument Square
Portland, ME 04101
(800) 882-1174

¹Credit and collateral subject to approval. Terms and conditions apply. Programs, rates, terms and conditions subject to change without notice. Equal Housing Lender.

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Rockland, ME 04841
T 207 596 6641
F 207 594 2949

tdbank.com

October 11, 2019

To Whom It May Concern;

Connor W O'Neil has an account with TD Bank and it is in good standing.

Sonja Neiman

A handwritten signature in black ink that reads "Sonja Neiman".

Customer Service Representative

TD Bank, America's Most Convenient Bank