



Oliver Stedman Government Center
4808 Tower Hill Road; Suite 116
Wakefield, RI 02879
401-783-3370

PUBLIC RE-NOTICE

File Number: 2015-07-027

Date: February 11, 2016

This office has under consideration the application of:

David Blaney
P.O. Box 3285
Narragansett, RI 02882

for a State of Rhode Island Assent to construct and maintain: a kelp farm in the Point Judith Harbor of Refuge. Please note that the location of the farm has been changed based upon information received by the RI Department of Environmental Management. The method of cultivation will remain as originally proposed. The dates have been changed for the farm to start on November 1 and be finished by May 1 of each year. Please see the attached map. An electronic copy of the application is available upon request.

Project Location:	Harbor of Refuge
City/Town:	Narragansett
Plat/Lot:	/
Waterway:	Harbor of Refuge

Plans of the proposed work may be seen at the CRMC office in Wakefield.

In accordance with the Administrative Procedures Act (Chapter 42-35 of the Rhode Island General Laws) you may request a hearing on this matter.

You are advised that if you have good reason to enter protests against the proposed work it is your privilege to do so. It is expected that objectors will review the application and plans thoroughly, visit site of proposed work if necessary, to familiarize themselves with the conditions and cite what law or laws, if any, would in their opinion be violated by the work proposed.

If you desire to protest, you must attend the scheduled hearing and give sworn testimony. A notice of the time and place of such hearing will be furnished you as soon as possible after receipt of your request for hearing. If you desire to request a hearing, to receive consideration, it should be in writing (**with your correct mailing address, e-mail address and valid contact number**) and be received at this office on or before March 14, 2016.

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS
 COASTAL RESOURCES MANAGEMENT COUNCIL
 4808 TOWER HILL ROAD; Suite 3, WAKEFIELD, RI 02879
 (401) 783-3370

Application for State Assent to perform work regulated by the provisions of Chapter 279 of the Public Laws of 1971 Amended.

A 2015-03-072	File No. 2015-07-027
Location: Street _____ City/Town _____	
Applicants Name. DAVID R. BLANEY	
Mailing Address P.O. Box 3285	Res. Tel. # 401-792-1538
City/Town NARRAGANSETT State RI Zip Code 02882	Bus. Tel. #
Location of Proposed Aquaculture Project:	
Name of Waterway POINT JUDITH HARBOR OF REFUGE	Fee/Costs \$
Est. Project Cost \$	\$ 200.00

Have you or any previous owner filed an application for and/or received an assent for any activity on this site? (If so please provide the file and/or assent numbers).

IS THIS APPLICATION BEING SUBMITTED IN RESPONSE TO A COASTAL VIOLATION?
 YES _____ NO X

IF YES, YOU MUST INDICATE NOV OR C&D NUMBER _____

NOTE: The applicant acknowledges by evidence of their signature that they have reviewed the Rhode Island Coastal Resources Management Program, and have, where possible, adhered to the policies and standards of the program. Where variances or special exceptions are requested by the applicant, the applicant will be prepared to meet and present testimony on the criteria and burdens of proof for each of these relief provisions. The applicant also acknowledges by evidence of their signature that to the best of their knowledge the information contained in the application is true and valid. If the information provided to the CRMC for this review is inaccurate or did not reveal all necessary information or data, then the permit granted under this application may be found to be null and void. Applicant requires that as a condition to the granting of this assent, members of the CRMC or its staff shall have access to the applicants property to make on-site inspections to insure compliance with the assent. This application is made under oath and subject to the penalties of perjury.

Date: 07.05.15

Owner's Signature Capt. David R. Blaney

Appendix C



usaleem

CO-ORDINATES
 NW 41.359129N - 71.507562W
 NE 41.358953N - 71.507190W
 SW 41.356587N - 71.508825W
 SE 41.356427N - 71.508460W

Point Judith Harbor of Refuge



Sand Hill Cove

Stanton Ave
 Elm Ave
 Birch St
 Napier Ave
 Oak Ave
 S.W. Rd

Point Judith
 Shore Rd
 Av. Folletts Pt
 P.M. St
 P.M. St

Jupiter St
 Gorman Ave
 Salem Ave

Money Po

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Image © 2016 TerraMetrics

Imagery Date: 5/6/2015 lat 41.361843° lon -71.501526° elev -28



1995

PROPOSAL

Capt. David Blaney MMS 07.06.2015

Kelp farming, as well as the farming of various other seaweeds, is a significant and growing industry worldwide as seaweeds, especially kelp, are used for food, medicinal products, additives and bioremediation. Although the farming and use of seaweeds has a long history in many Asian and European countries, much of the rest of the world is only now recognizing the unique nutritional and health values of seaweeds. In addition to increased worldwide consumption, a recent development is the growing and harvesting of kelp for conversion to biofuels. A great deal of research is currently underway to evaluate the economics of these activities, project future demand for these algal products and to determine how best to meet increased global demand.

Development of sea vegetable production in Rhode Island will give the State and the local economy a share in this 7.9 Billion dollar international industry. Initially this project hopes to provide 2 to 4 full time jobs and 10 to 12 part time seasonal jobs, mostly to local commercial fishermen.

In order to conduct any type of food production, an artificial form of the environment in which the selected species naturally exists must be created. The purpose being to provide an ideal set of conditions for growth. In the case of seaweeds, particularly the species of kelps selected for this project. The natural life cycle of kelp plants produces one harvestable sporophyte (adult) population per year. Species to be cultivated is Sugar Kelp (*Saccharina latissima*), a species native to North America. No non- native species will be introduced. Juvenile plants will be provided by Ocean Approved LLC, cultured at their facility in Portland ME.

Product distribution will be thru approved seafood whole salers thru-out the area and at state and local farmers markets.



FARM DESCRIPTION and OPERATIONAL PARAMETERS

Farm construction will consist of a system of four (4) parallel, 1000 foot long lines spaced 25 feet apart, suspended at approximately 7 to 8 feet in the water column by buoys. Grow out lines will be moored at each end and midpoint by 6' screw type moorings. Overall depth is 20 to 25 feet. This system has proven effective in Maine and nearby Connecticut. Total overall farm dimensions will be 120 feet by 1000 feet covering approximately 2.75 acres.

Markings will consist of lighted mooring buoys at the corners of the site, secured with 6' screw type anchors, and 14" lobster buoys at 200 foot intervals attached to the long line. All labeled according to regulations.

Cultivation schedule is based on setting gear during the months of late September and October. Planting in late October and November, and harvesting in late May.

Most activity at the site will be conducted from small vessels except for initial setting of moorings and gear. This will minimize the visual impact of the operation.

This schedule will coincide with the kelps natural life cycle and will reduce the incidence of conflict with other user groups.

All operations will be conducted in compliance with state and local laws. All vessels will conform to U.S. Coast Guard regulations for fishing vessels operating in state waters. Where applicable OSHA and NIOSH guidelines will be followed.

PLEASE SEE ATTACHED DIAGRAMS, CHARTS and PHOTOS.



LOCATION of PROPOSED SITE

Inside and parallel to the West arm of The Point Judith harbor of Refuge approximately 200 feet Southeasterly of the West entrance.

NW Corner 41.36080 x 71.51256 NE Corner 41.36088 x 71.51222

SW Corner 41.35874 x 71.51158 SE Corner 41.35800 x 71.51113

120 feet x 1000 feet area 2.75 acres Depth 20 to 24 feet

This configuration describes a narrow rectangle 120 feet by 1000 creating a footprint less likely to interfere with other vessels navigating the area.

Site is located approximately 3000 feet from the nearest shoreline, being Rodger Wheeler State Beach. There are no riparian land owners within 1000 feet of this site.

PLEASE SEE ATTACHED DIAGRAMS< CHARTS and PHOTOS

DESCRIPTION of PROPOSED SITE

1. General Physical Characteristics- Site location is approximately 50 feet from and parallel to the West arm of the Point Judith Harbor of Refuge. A man made structure originally constructed in the 1890's of granite riprap with an elevation of est. 8 feet at mean low water, to awash at extreme high tide and storms. This structure slopes out t varying angles to a mostly flat sediment bottom.
2. Approximate Depth- 20 to 25 feet
3. Topography- sloping to flat
4. Flora and Fauna- based on reported historical anecdotal observations and ell grass map. Indicate no observed lobster, worm, anemones, or ell grass especially during winter months.

The presence of seaweed cultivation will undoubtedly enhance the habitat in this area providing shade shelter and nursery conditions for juvenile fish invertebrates and sea birds.

Tidal Flushing and Turbidity- Current in this area runs a reported 0 to 1.5 kts. Largely flowing in an Easterly and Westerly direction, giving access to nutrients required for growth. The type of gear proposed will have little or no effect on sedimentation or contribute to an increase in turbidity.

5. The proposed site is located in waters approved for shell fishing.



Response to CRMC Staff questions /concerns:

1. Sugar Kelp *Saccharina Latissima* will be the species grown.
2. By reducing the number of grow lines, all activities including, buoys, moorings, and anchors will be within the footprint described in the preliminary application.
3. The 50' offset from the wall is considered to be appropriate due to:
 - (a) Keeping the equipment at the fringes of the designated mooring area
 - (b) The depth contours in this area are advantages to the growing conditions needed.
 - (c) Total lack of conflicting activity during equipment deployment months
4. Screw type moorings imbedded 6' into the seabed will be the primary mooring system used for the 4 (four) ½" grow out lines.
5. The four corners of the lease sight will be marked with lighted buoys secured by screw type moorings. Please see attached diagrams.
6. Growing season runs from, setting gear around October 15th to harvest in or around May 15th. All gear will be removed during the off season.



Response to CRMC Section 300.1

1. We will be able to provide local, fresh grown sea vegetables to satisfy consumer demand.
2. All applicable Federal, State and Local zoning ordinances, building codes, flood hazard standards, and all safety codes, fire codes and environmental requirements will be met.
3. Do to the distance from nearest land, (avg. 1800'), we do not anticipate the activities described to have any affect upon adjacent coastal waters or land area.
4. We do not anticipate the described activity to have any erosional or depositional impact along nearby shore or tidal areas.
5. The type of equipment use will have little or no effect upon abundance or diversity of currently naturally occurring organisms.
6. Due to the timing of operations, (Oct.-May), we anticipate no user conflict for this area. There will be no impact on existing public access to or restrictions to use of tidal areas to the public. Access for equipment, vessels etc. will be from a commercial marina in Snug Harbor and from The Port of Galilee.
7. The activity described will have minimal impact on water circulation, flushing, turbidity or be a cause of sedimentation, or flora and fauna- based on reported historical anecdotal observations and ell grass map. Indicate no observed lobster, worm, anemones, or ell grass especially during winter months.



Research (*Yaris*) Indicates the presence of seaweed cultivation enhances the adjacent habitat by providing shade shelter and nursery conditions for juvenile fish invertebrates and sea birds.

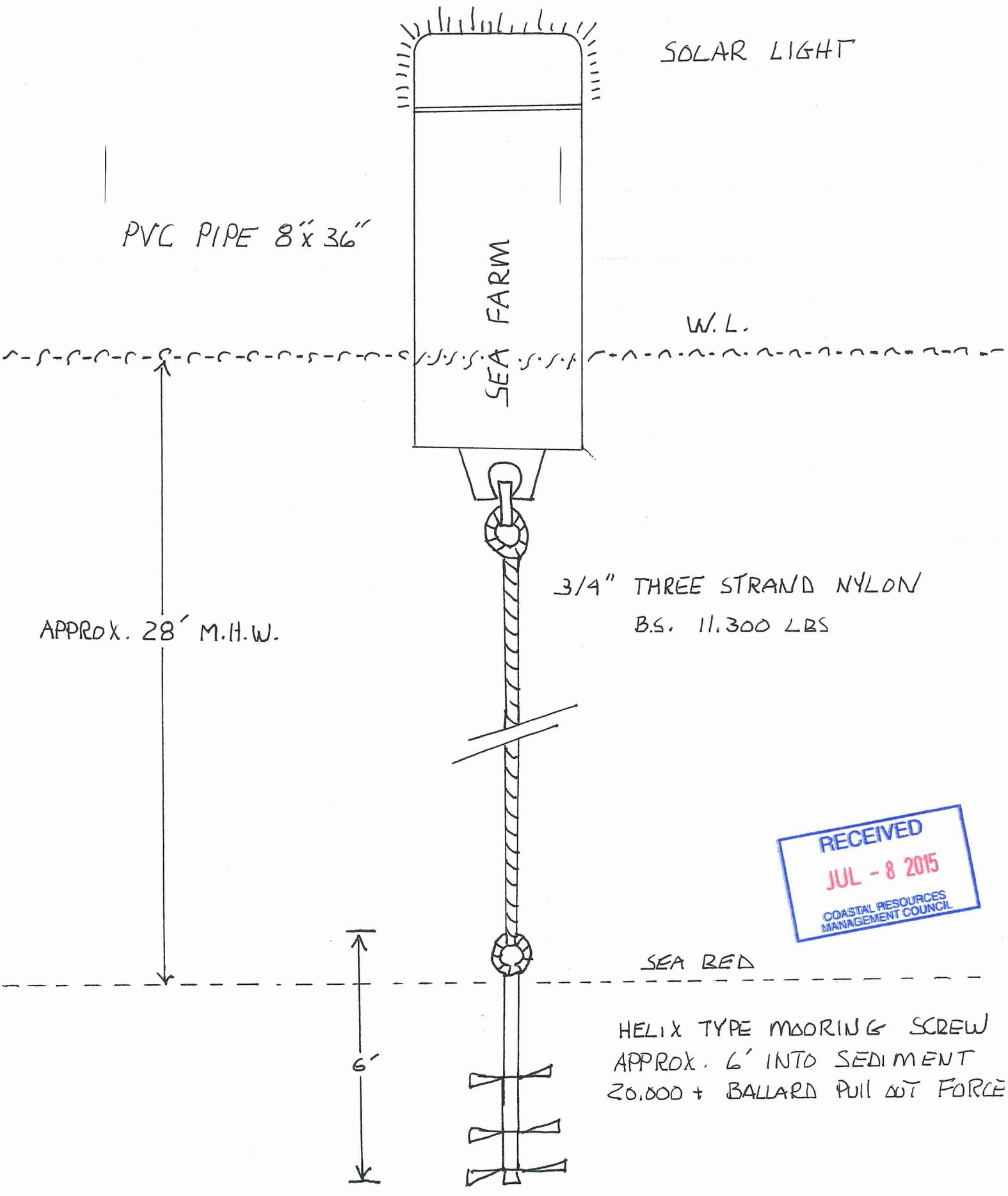
Current in this area runs a reported 0 to 1.5 kts. Largely flowing in an Easterly and Westerly direction, giving access to nutrients required for growth. The type of gear proposed will have little or no effect on sedimentation or contribute to an increase in turbidity. Approximate Depth- 20 to 24 feet. Topography is sloping to flat

8. Studies by Professor Charles Yarish at University of Connecticut Sea Grant indicate, the cultivation of Kelp has a positive impact upon water quality.
9. There is no evidence of any historical or archeological sites that would be affected by the described activity.
10. Due to the seasonality of the proposed activity, (Oct.-May), we anticipate very little impact on other user groups for this area.
11. The sighting of the proposed activity, the minimum of equipment on sight, and the average distance of about 2000' from nearest land will minimize and visual impacts.



SITE MARKING BUOY DETAIL

NOT TO SCALE



SOLAR LIGHT

PVC PIPE 8" x 36"

SEA FARM

W.L.

APPROX. 28' M.H.W.

3/4" THREE STRAND NYLON
B.S. 11,300 LBS

RECEIVED
JUL - 8 2015
COASTAL RESOURCES
MANAGEMENT COUNCIL

SEA RED

6'

HELIX TYPE MOORING SCREW
APPROX. 6' INTO SEDIMENT
20,000 + BALLARD PULL OUT FORCE

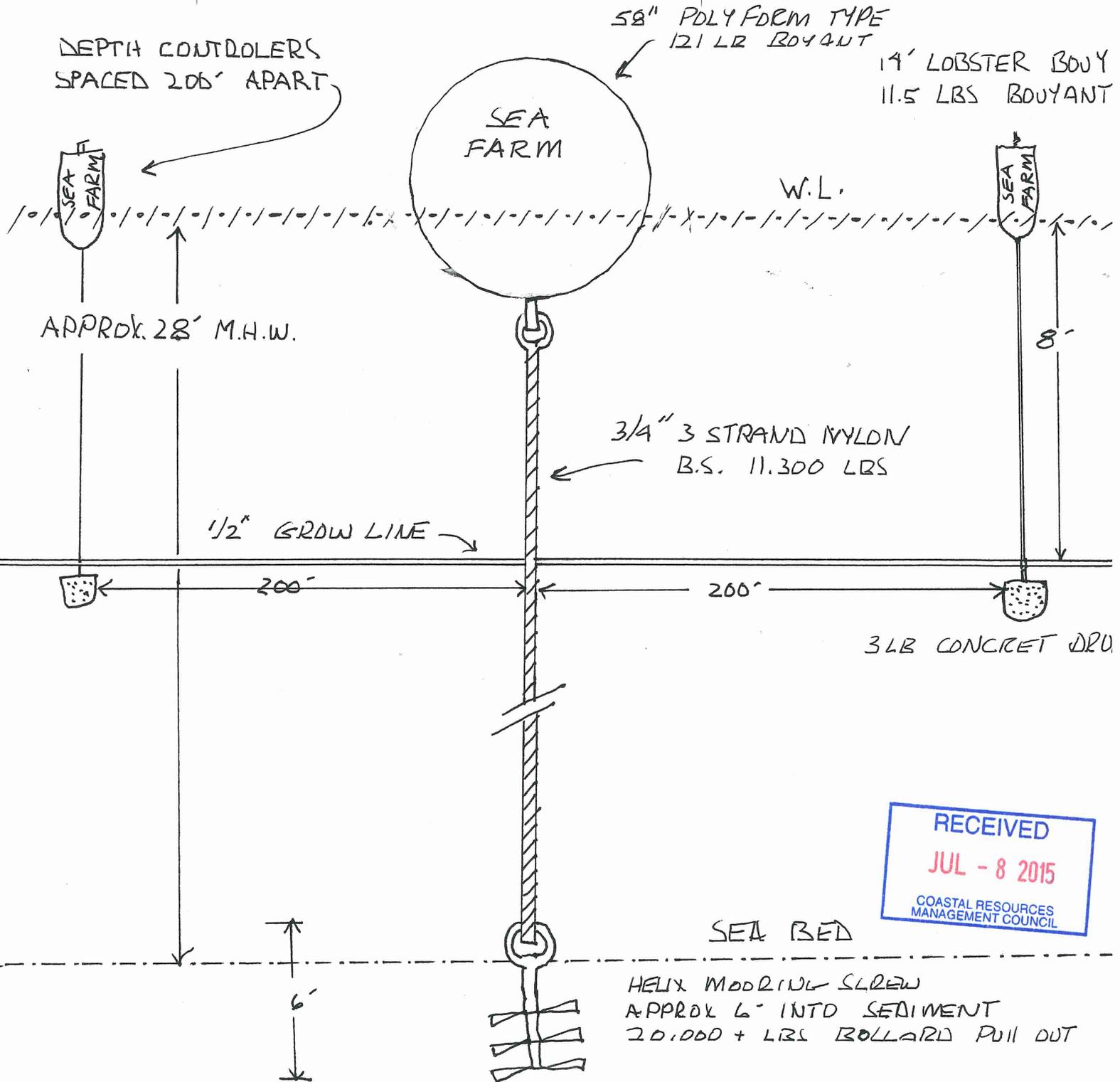
GROW-OUT LINES MOORING & BOUY DETAIL

NOT TO SCALE

TOTAL GROW LINE LENGTH 900' - 58" BOUY & MOORING AT EACH END & MIDPOINT.

DEPTH CONTROLS EVERY 200'

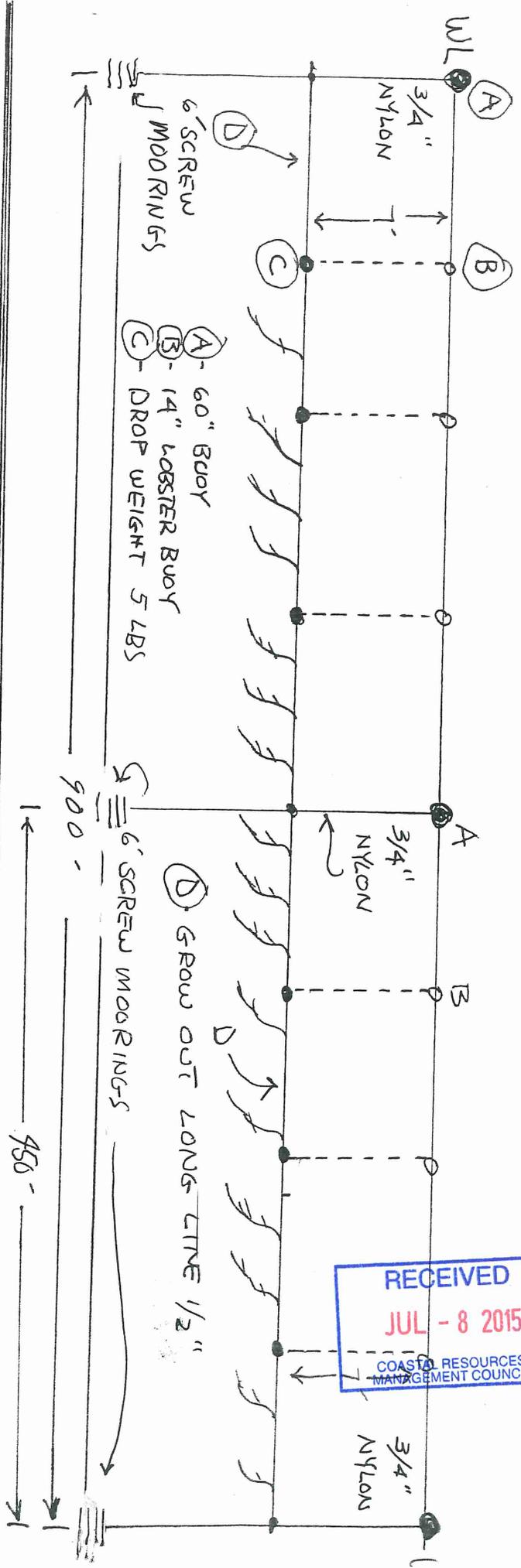
ALL SHACKLES & SPLICES TO BE PROPERLY SIZED & PROTECTED AGAINST CHAFE.



GEAR LAYOUT DIAGRAM - KELP FARM

CAPT D.E. ISLAVET M.
07.S.15

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LIGHTED CORNER MARKERS

