



DEVELOPMENT SERVICES DEPARTMENT  
ENVIRONMENTAL COORDINATOR  
450 110<sup>th</sup> Ave NE., P.O. BOX 90012  
BELLEVUE, WA 98009-9012

### **OPTIONAL DETERMINATION OF NON-SIGNIFICANCE (DNS) NOTICE MATERIALS**

The attached materials are being sent to you pursuant to the requirements for the Optional DNS Process (WAC 197-11-355). A DNS on the attached proposal is likely. This may be the only opportunity to comment on environmental impacts of the proposal. Mitigation measures from standard codes will apply. Project review may require mitigation regardless of whether an EIS is prepared. A copy of the subsequent threshold determination for this proposal may be obtained upon request.

File No. 14-139149-WG

Project Name/Address: Wall Dock, 1839 Killarney Way

Planner: David Wong

Phone Number: 425-452-4282/Dwong@bellevuewa.gov

**Minimum Comment Period:** 10/20/2014

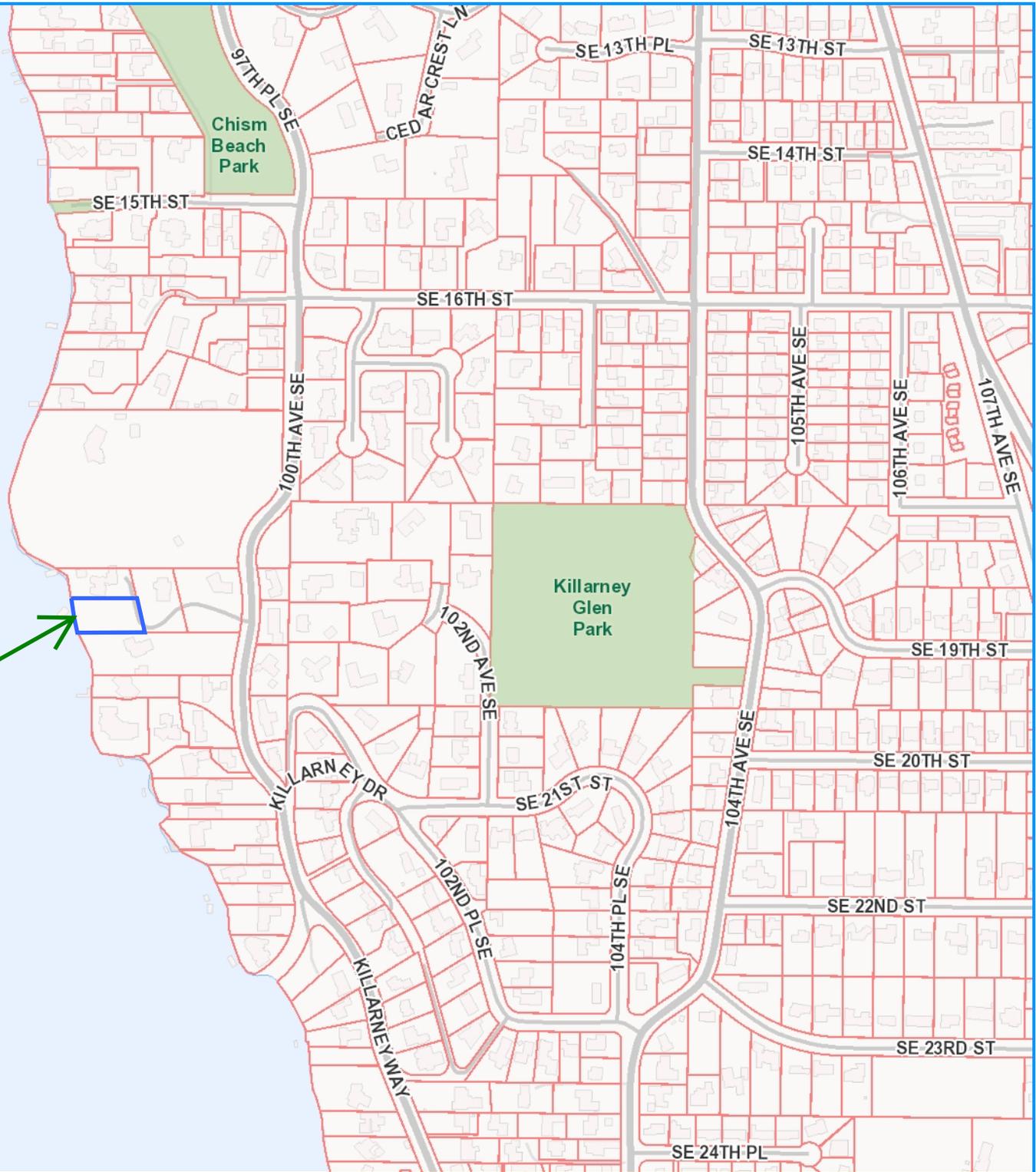
Materials included in this Notice:

- Blue Bulletin
- Checklist
- Vicinity Map
- Plans
- Other:

**OTHERS TO RECEIVE THIS DOCUMENT:**

- State Department of Fish and Wildlife / [Sterwart.Reinbold@dfw.gov](mailto:Sterwart.Reinbold@dfw.gov); [Christa.Heller@dfw.wa.gov](mailto:Christa.Heller@dfw.wa.gov);
- State Department of Ecology, Shoreline Planner N.W. Region / [Jobu461@ecy.wa.gov](mailto:Jobu461@ecy.wa.gov); [sepaunit@ecy.wa.gov](mailto:sepaunit@ecy.wa.gov)
- Army Corps of Engineers [Susan.M.Powell@nws02.usace.army.mil](mailto:Susan.M.Powell@nws02.usace.army.mil)
- Attorney General [ecyolyef@atg.wa.gov](mailto:ecyolyef@atg.wa.gov)
- Muckleshoot Indian Tribe [Karen.Walter@muckleshoot.nsn.us](mailto:Karen.Walter@muckleshoot.nsn.us); [Fisheries.fileroom@muckleshoot.nsn.us](mailto:Fisheries.fileroom@muckleshoot.nsn.us)

**Project Location**



## ENVIRONMENTAL CHECKLIST

10/9/2009

Thank you in advance for your cooperation and adherence to these procedures. If you need assistance in completing the checklist or have any questions regarding the environmental review process, please visit or call Development Services (425-452-6800) between 8 a.m. and 4 p.m., Monday through Friday (Wednesday, 10 to 4). Assistance for the hearing impaired: Dial 711 (Telecommunications Relay Service).

### INTRODUCTION

#### Purpose of the Checklist:

The State Environmental Policy Act (SEPA), Chapter 43.21c RCW, requires all governmental agencies to consider the environmental impacts of a proposal before making decisions. An environmental impact statement (EIS) must be prepared for all proposals with probable significant adverse impacts on the quality of the environment. The purpose of this checklist is to provide information to help you and the City of Bellevue identify impacts from your proposal (and to reduce or avoid impacts from the proposal, if it can be done) and to help the City decide whether an EIS is required.

#### Instructions for Applicants:

This environmental checklist asks you to describe some basic information about your proposal. Answer the questions briefly, with the most precise information known, or give the best description you can. You must answer each question accurately and carefully, to the best of your knowledge. In most cases, you should be able to answer the questions from your own observations or project plans without the need to hire experts. If you really do not know the answer or if a question does not apply to your proposal, write "do not know" or "does not apply." Giving complete answers to the questions now may avoid unnecessary delays later.

Some questions ask about governmental regulations such as zoning, shoreline, and landmark designations. Answer these questions if you can. If you have problems, the Planner in the Permit Center can assist you.

The checklist questions apply to all parts of your proposal, even if you plan to do them over a period of time or on different parcels of land. Attach any additional information that will help describe your proposal or its environmental effects. Include reference to any reports on studies that you are aware of which are relevant to the answers you provide. The City may ask you to explain your answers or provide additional information reasonably related to determining if there may be significant adverse impacts.

**Use of a Checklist for Nonproject Proposals:** *A nonproject proposal includes plans, policies, and programs where actions are different or broader than a single site-specific proposal.*

For nonproject proposals, complete the Environmental Checklist even though you may answer "does not apply" to most questions. In addition, complete the Supplemental Sheet for Nonproject Actions available from Permit Processing.

For nonproject actions, the references in the checklist to the words *project*, *applicant*, and *property* or *site* should be read as *proposal*, *proposer*, and *affected geographic area*, respectively.

**Attach an 8 ½" x 11 vicinity map which accurately locates the proposed site.**

**ENVIRONMENTAL CHECKLIST**

4/11/2013

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**BACKGROUND INFORMATION**

Property Owner: Daniel Wall

Proponent: Daniel Wall

Contact Person: Rebecca Henderson - Marine Restoration & Construction LLC  
(If different from the owner. All questions and correspondence will be directed to the individual listed.)

Address: 1839 Killarney Way

Phone: (425) 576-1923

Proposal Title: Wall Lift Permit

Proposal Location: 1839 Killarney Way  
(Street address and nearest cross street or intersection) Provide a legal description if available.

Please attach an 8 ½" x 11" vicinity map that accurately locates the proposal site.

Give an accurate, brief description of the proposal's scope and nature:

1. **General description:** We propose to repair an existing dock, replace an existing boatlift, install a freestanding dual jet-ski lift and create a cove.
2. **Acreage of site:** 0.54
3. **Number of dwelling units/buildings to be demolished:** None associated with this project.
4. **Number of dwelling units/buildings to be constructed:** None associated with this project.
5. **Square footage of buildings to be demolished:** None associated with this project.
6. **Square footage of buildings to be constructed:** No change to existing square footage is proposed.
7. **Quantity of earth movement (in cubic yards):** None proposed
8. **Proposed land use:** Accessory structure.
9. **Design features, including building height, number of stories and proposed exterior materials:**  
The dock has an existing roof that is about 14'-6" above OHWL at the top. The proposed dock repair will have a plastic grated deck surface. The proposed cove will be made up of sand, rocks and gravel.
10. **Other**

Estimated date of completion of proposal or timing of phasing:  
We would like to begin the project as soon as possible. The project should take about 3-4 weeks (+/-) to complete.

Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal? If yes, explain.  
None that we are aware of.

List any environmental information you know about that has been prepared, or will be prepared, directly related to this proposal.  
None that we are aware of.

Do you know whether applications are pending for governmental approvals of other proposals directly affecting the property covered by your proposal? If yes, explain. List dates applied for and file numbers, if known.  
None that we are aware of.

List any government approvals or permits that will be needed for your proposal, if known. If permits have been applied for, list application date and file numbers, if known.  
This project will require authorization from the Army Corps of Engineers, Washington Department of Fish and Wildlife approval, a Land Use and Building permit from the City of Bellevue, and Department of Natural Resources approval.

Please provide one or more of the following exhibits, if applicable to your proposal.  
(Please check appropriate box(es) for exhibits submitted with your proposal):

- Land Use Reclassification (rezone) Map of existing and proposed zoning
- Preliminary Plat or Planned Unit Development  
Preliminary plat map
- Clearing & Grading Permit  
Plan of existing and proposed grading  
Development plans
- Building Permit (or Design Review)  
Site plan  
Clearing & grading plan
- Shoreline Management Permit  
Site plan

A. ENVIRONMENTAL ELEMENTS

1. Earth

- a. General description of the site:  Flat  Rolling  Hilly  Steep slopes  Mountains  Other
- b. What is the steepest slope on the site (approximate percent slope)?  
75% (+/-)
- c. What general types of soil are found on the site (for example, clay, sand, gravel, peat, and muck)? If you know the classification of agricultural soils, specify them and note any prime farmland.  
No formal soil assesment has been performed.

- d. Are there surface indications or history of unstable soils in the immediate vicinity? If so, describe.  
King County Parcel Viewer shows the site as having erosion hazards. The project area should not be effected by erosion hazards or contribute to erosion.
  
- e. Describe the purpose, type, and approximate quantities of any filling or grading proposed. Indicate source of fill.  
The proposed cove will require up to 70 cubic yards of 2" minus spawning gravel and up to 35 cubic yards of sand.
  
- f. Could erosion occur as a result of clearing, construction, or use? If so, generally describe.  
The project should not effect erosion on the site.
  
- g. About what percent of the site will be covered with impervious surfaces after project construction (for example, asphalt or buildings)?  
The project will not change the impervious surfaces of the site.
  
- h. Proposed measures to reduce or control erosion, or other impacts to the earth, if any:  
The proposed project will not create new erosion or impacts to the earth. No measures to reduce impacts are necessary. Erosion Regulated by BCC 23.76

## 2. AIR

- a. What types of emissions to the air would result from the proposal (i.e. dust, automobile odors, and industrial wood smoke) during construction and when the project is completed? If any, generally describe and give approximate quantities if known.  
During construction normal vehicle emissions would occur. No new sources of emissions will be generated from the finished project.
  
- b. Are there any off-site sources of emissions or odor that may affect your proposal? If so, generally describe.  
None that we are aware of.
  
- c. Proposed measures to reduce or control emissions or other impacts to the air, if any:  
We propose to only operate machinery when necessary to perform tasks.

### 3. WATER

#### a. Surface

(1) Is there any surface water body on or in the immediate vicinity of the site (including year-round and seasonal streams, saltwater, lakes, ponds, wetlands)? If yes, describe type and provide names. If appropriate, state what stream or river it flows into.  
The project will occur in and around Lake Washington.

(2) Will the project require any work over, in, or adjacent to (within 200 feet) the described waters? If Yes, please describe and attach available plans.  
Yes, the project will take place in and around Lake Washington.

(3) Estimate the amount of fill and dredge material that would be placed in or removed from surface water or wetlands and indicate the area of the site that would be affected. Indicate the source of fill material.  
No dredging is proposed for this project. We propose up to 70 cubic yards of 2" minus spawning gravel and up to 35 cubic yards of sand.

(4) Will the proposal require surface water withdrawals or diversions? Give general description, purpose, and approximate quantities if known.  
No.

(5) Does the proposal lie within a 100-year floodplain? If so, note location on the site plan.  
"None Mapped" as per King County Parcel Viewer.

(6) Does the proposal involve any discharges of waste materials to surface waters? If so, describe the type of waste and anticipated volume of discharge.  
No.

#### b. Ground

(1) Will ground water be withdrawn, or will water be discharged to ground water? Give general description.  
No.

(2) Describe waste material that will be discharged into the ground from septic tanks or other sources, if any (for example: Domestic sewage; industrial, containing the following chemicals...; agricultural; etc.) Describe the general size of the system, the number of such systems, the number of houses to be served (if applicable), or the number of animals or humans the system(s) are expected to serve.  
None proposed.

c. Water Runoff (Including storm water)

(1) Describe the source of runoff (including storm water) and method of collection and disposal, if any (include quantities, if known). Where will this water flow? Will this water flow into other waters? If so, describe.

Water will run off of project naturally in to the lake.

(2) Could waste materials enter ground or surface waters? If so, generally describe.  
No.

d. Proposed measures to reduce or control surface, ground, and runoff water impacts, if any:  
The project will not change existing runoff. No measures to reduce runoff effects are necessary.

#### 4. Plants

a. Check or circle types of vegetation found on the site:

deciduous tree: alder, maple, aspen, other

evergreen tree: fir, cedar, pine, other

shrubs

grass

pasture

crop or grain

wet soil plants: cattail, buttercup, bulrush, skunk cabbage, other

water plants: water lily, eelgrass, milfoil, other

other types of vegetation

b. What kind and amount of vegetation will be removed or altered?

No vegetation is proposed to be removed as a result of this project. We are proposing a native mitigation planting plan.

c. List threatened or endangered species known to be on or near the site.

Bald Eagles and Salomon reside in and around Lake Washington. It is unclear if any reside near the site.

d. Proposed landscaping, use of native plants, or other measures to preserve or enhance vegetation on the site, if any:

Please see planting plan page of the plan set.

## 5. ANIMALS

- a. Check or circle any birds and animals which have been observed on or near the site or are known to be on or near the site:

Birds: hawk, heron, eagle, songbirds, other:

Mammals: deer, bear, elk, beaver, other:

Fish: bass, salmon, trout, herring, shellfish, other:

- b. List any threatened or endangered species known to be on or near the site.

Bald Eagles and Salomon reside in and around Lake Washington. It is unclear if any reside near the site.

- c. Is the site part of a migration route? If so, explain.

Lake Washington is a salmon migration route. It is unclear if the site is actually part of a group.

- d. Proposed measures to preserve or enhance wildlife, if any:

The mitigation plan is meant to positively impact the shoreline.

## 6. Energy and Natural Resources

- a. What kinds of energy (electric, natural gas, oil, wood stove, solar) will be used to meet the completed project's energy need? Describe whether it will be used for heating, manufacturing, etc.

The project will be solar powered. No new sources of energy will be needed.

- b. Would your project affect the potential use of solar energy by adjacent properties? If so, generally describe.  
No.

- c. What kinds of energy conservation features are included in the plans of the proposal? List other proposed measures to reduce or control energy impacts, if any:

The lifts being powered by solar energy is a conservation measure.

## 7. Environmental Health

- a. Are there any environmental health hazards, including exposure to toxic chemicals, risk of fire and explosion, spill, or hazardous waste, that could occur as a result of this proposal? If so, describe.  
None that we are aware of.

(1) Describe special emergency services that might be required.  
There should be no special emergency services required.

(2) Proposed measures to reduce or control environmental health hazards, if any.  
Any material that enters the lake will be retrieved and disposed of at an upland facility. Precautions will be taken to prevent construction materials from entering the water.

- b. Noise

(1) What types of noise exist in the area which may affect your project (for example, traffic, equipment, operation, other)?  
None.

- (2) What types levels of noise would be created by or associated with the project on a short-term or long-term basis (for example, traffic, construction, operation, other)? Indicate what hours noise would come from the site.  
Normal construction noise will be generated during construction. No new sources of noise will be generated from the completed project.

Noise Regulated by BCC 9.18

- (3) Proposed measures to reduce or control noise impacts, if any:  
Tools will be used only when necessary during construction.

## 8. Land and Shoreline Use

- a. What is the current use of the site and adjacent properties?  
Single Family Residential
- b. Has the site been used for agriculture? If so, describe.  
Not that we are aware of.
- c. Describe any structures on the site.  
House, bulhead, dock, and a roof.
- d. Will any structures be demolished? If so, what?  
No structures to be demolished.
- e. What is the current zoning classification of the site?  
R-1.8
- f. What is the current comprehensive plan designation of the site?  
"Does not apply" as per King County Parcel Viewer. SF-L or Single-Family Low Density
- g. If applicable, what is the current shoreline master program designation of the site?
- h. Has any part of the site been classified as an "environmentally sensitive" area? If so, specify.  
The site is shown to have erosion hazards on King County Parcel Viewer.
- i. Approximately how many people would reside or work in the completed project?  
None
- j. Approximately how many people would the completed project displace?  
None
- k. Proposed measures to avoid or reduce displacement impacts, if any:  
None proposed.
- l. Proposed measures to ensure the proposal is compatible with existing and projected land uses and plans, if any:  
No change to land use are proposed.

## 9. Housing

- a. Approximately how many units would be provided, if any? Indicate whether high, middle, or low-income housing.  
None.
  
- b. Approximately how many units, if any, would be eliminated? Indicate whether high, middle, or low-income housing.  
None.
  
- c. Proposed measures to reduce or control housing impacts, if any:  
None proposed.

## 10. Aesthetics

- a. What is the tallest height of any proposed structure(s), not including antennas; what is the principal exterior building material(s) proposed?  
  
The existing roof will not be altered and is about 14'-6" (+/-) above OHWL. The height of the dock above OHWL is 2' (+/-).
- b. What views in the immediate vicinity would be altered or obstructed?  
None.
- c. Proposed measures to reduce or control aesthetic impacts, if any:  
No impacts to aesthetics are proposed.

## 11. Light and Glare

- a. What type of light or glare will the proposal produce? What time of day would it mainly occur?  
None.
- b. Could light or glare from the finished project be a safety hazard or interfere with views?  
No.
  
- c. What existing off-site sources of light or glare may affect your proposal?  
None that we are aware of.
- d. Proposed measures to reduce or control light or glare impacts, if any:  
No impacts are proposed to effect light glare.

## 12. Recreation

- a. What designated and informal recreational opportunities are in the immediate vicinity?  
Killarney Glen Park.
- b. Would the proposed project displace any existing recreational uses? If so, describe.  
No.
- c. Proposed measures to reduce or control impacts on recreation, including recreation opportunities to be provided by the project or applicant, if any:  
No impacts are proposed to recreation.

## 13. Historic and Cultural Preservation

- a. Are there any places or objects listed on, or proposed for, national, state, or local preservation registers known to be on or next to the site? If so, generally describe.  
None that we are aware of.
- b. Generally describe any landmarks or evidence of historic, archeological, scientific, or cultural importance known to be on or next to the site.  
None that we are aware of.
- c. Proposed measures to reduce or control impacts, if any:  
No impacts to historical or government preservation registers are proposed.

## 14. Transportation

- a. Identify public streets and highways serving the site, and describe proposed access to the existing street system. Show on site plans, if any.  
Site is served by Killarney Way. No new access is proposed for this project.
- b. Is site currently served by public transit? If not, what is the approximate distance to the nearest transit stop?  
It is not served by transit. The nearest transit stop is about a half mile away.
- c. How many parking spaces would be completed project have? How many would the project eliminate?  
None.
- d. Will the proposal require any new roads or streets, or improvements to existing roads or streets, not including driveways? If so, generally describe (indicate whether public or private).  
No.
- e. Will the project use (or occur in the immediate vicinity of) water, rail, or air transportation? If so, generally describe.  
No.
- f. How many vehicular trips per day would be generated by the completed project? If known, indicate when peak volumes would occur.  
None.
- g. Proposed measures to reduce or control transportation impacts, if any:  
No transportation impacts are proposed for this project.

**15. Public Services**

- a. Would the project result in an increased need for the public services (for example: fire protection, police protection, health care, schools, other)? If so, generally describe.  
No.
  
- b. Proposed measures to reduce or control direct impacts on public services, if any.  
The project will not impact public services.

**16. Utilities**

- a. Circle utilities currently available at the site: electricity, natural gas, water, refuse service, telephone, sanitary sewer, septic system, other.  
  
Electricity, gas, water, refuse service, telephone, and sanitary sewer.
- b. Describe the utilities that are proposed for the project, the utility providing the service, and the general construction activities on the site or in the immediate vicinity which might be needed.  
No new utilities are proposed for this project.

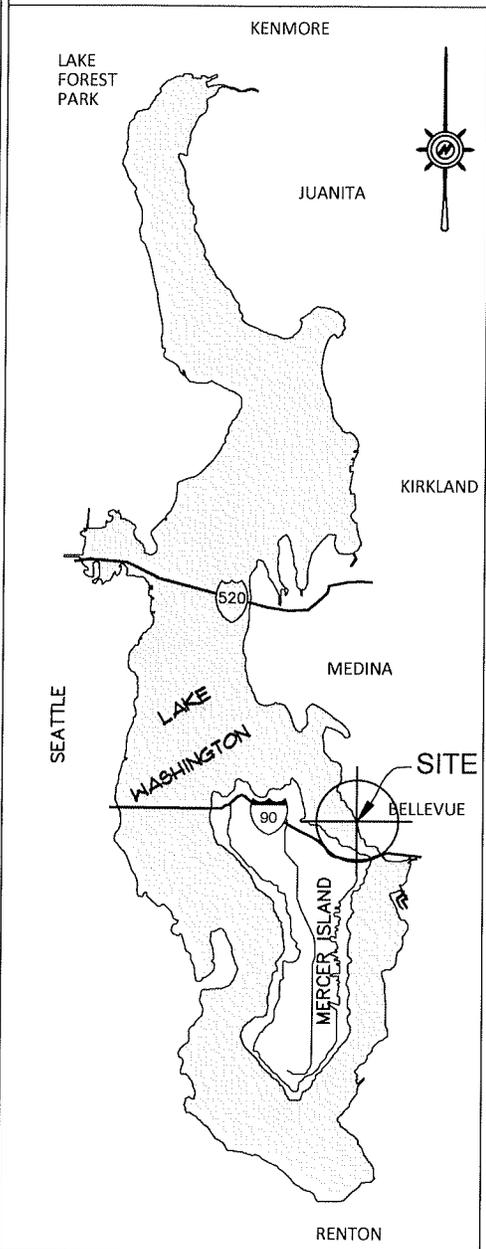
**Signature**

The above answers are true and complete to the best of my knowledge. I understand that the lead agency is relying on them to make its decision.

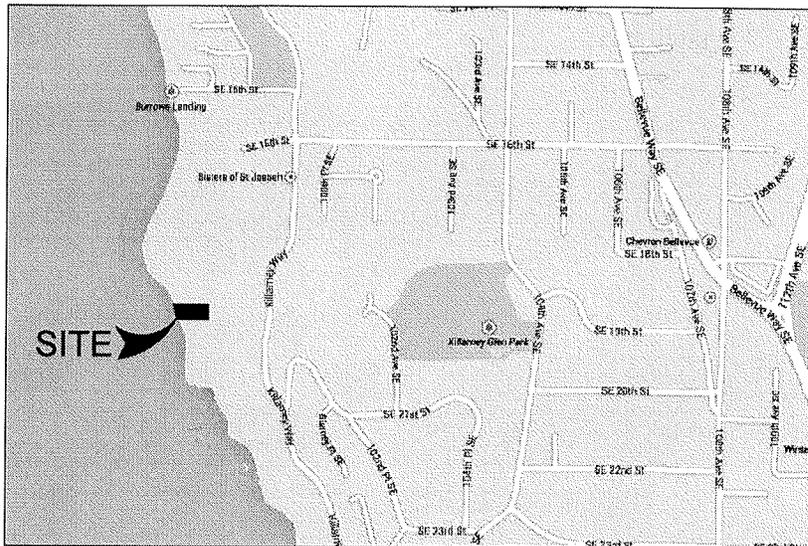
Signature.....  .....

Date Submitted..... 6/18/14 .....

# WALL DOCK REPAIR



**LAKE MAP/NO SCALE**



**VICINITY MAP**

NOT TO SCALE



1/4 SEC: SE-6-24-5

LAT: 47°35'38.2200"

LONG: -122°12'33.5520"

DECIMAL CONVERSION:

LAT: 47.59395

LONG: -122.20932

**LEGAL DESCRIPTION:**

(PARCEL No. 0624059094)

LOT 3, CITY OF BELLEVUE SHORT PLAT NUMBER SP-75-6, RECORDED UNDER RECORDING NUMBER 7507240473, IN KING COUNTY, WASHINGTON;

TOGETHER WITH AN EASEMENT FOR INGRESS, EGRESS AND UTILITIES AS DESCRIBED IN SAID SHORT PLAT.

**SHEET INDEX:**

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| 7. EXISTING ELEVATION        |                     |
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*Received*

*AUG 19 2014*

*Permit Processing*

PAGE 1 of 17

APPLICANT: WALL, DANIEL  
 SITE ADD. 1839 KILLARNEY WAY  
 BELLEVUE, WA 98004  
 MAIL ADD. SAME AS ABOVE  
 PAGE: 1 OF 17 DATE: 7/19/14

ADJACENT OWNERS:  
 ① GIORDANO, JOSEPH III  
 1829 101ST AVE SE  
 ② BROOKS PROPERTIES LIMITED P  
 1845 100TH AVE SE  
 LOCAL JURISDICTION:  
 CITY OF BELLEVUE

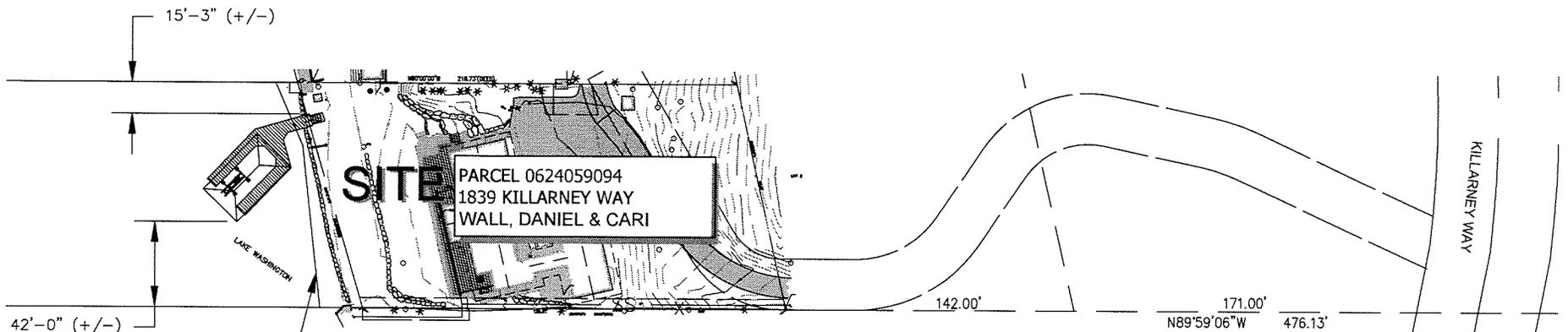
PROPOSED: REPAIR THE EXISTING DOCK.  
 REPLACE AN EXISTING BOATLIFT AND INSTALL  
 TWO JET-SKI LIFTS. CONSTRUCT A COVE.  
 PURPOSE: MAINTAIN MOORAGE INTEGRITY  
 DATUM: C.O.E



## MARINE RESTORATION & CONSTRUCTION LLC

P.O. BOX 884 Kirkland, WA 98083-0884      PHONE: (425) 576-8661      E-MAIL: INFO@MARINELLC.COM  
 FAX: (425) 576-8669      THIS DRAWING IS PROPERTY OF MARINE RESTORATION & CONSTRUCTION LLC AND MAY NOT BE COPIED OR REPRODUCED WITHOUT WRITTEN CONSENT

PLOT DATE: 18 August 2014



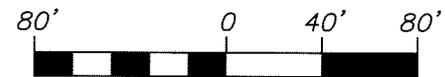
SEWER LOCATION OBTAINED FROM FIELD MEASUREMENTS. SEWER WAS MARKED FROM A PREVIOUS LOCATE REQUEST. FIELD LOCATED ON 7/23/14

**EXISTING SITE PLAN**

SCALE: 1" = 80'



*GRAPHIC SCALE*



1" = 80'

**NOTE:**

Property information for this site was obtained from a survey and a quarter section. Marine Restoration & Construction LLC has added information from other sources including field measurements and aerial photos. We are not surveyors and can not guarantee great level of accuracy.



**MARINE RESTORATION & CONSTRUCTION LLC**

MAIL: P.O. BOX 884, Kirkland, WA 98083 - 0884

PHONE: (425) 576-8661

E-MAIL: INFO@MARINELLC.COM

FAX: (425) 576-8669

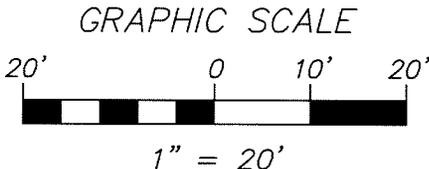
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N90

SEWER LOCATION OBTAINED FROM FIELD MEASUREMENTS. SEWER WAS MARKED FROM A PREVIOUS LOCATE REQUEST. FIELD LOCATED ON 7/24/14.

EXISTING BOATLIFT IN 10'-9" (+/-) WATER DEPTH ON THE LANDWARD SIDE

EXISTING 38' X 23'-3" ROOF TO REMAIN UNCHANGED



**EXISTING PLAN VIEW**

SCALE: 1" = 20'

**NOTE:**  
 Property information for this site was obtained from a survey and a quarter section. Marine Restoration & Construction LLC has added information from other sources including field measurements and aerial photos. We are not surveyors and can not guarantee great level of accuracy.

PLOT DATE: 18 August 2014



# MARINE RESTORATION & CONSTRUCTION LLC

MAIL: P.O. BOX 884, Kirkland, WA 98083 - 0884

PHONE: (425) 576-8661

FAX: (425) 576-8669

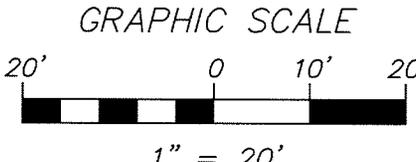
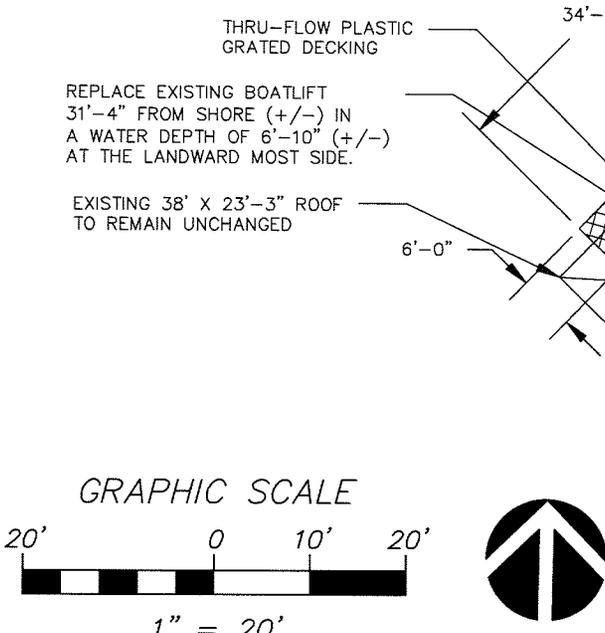
E-MAIL: INFO@MARINELLC.COM

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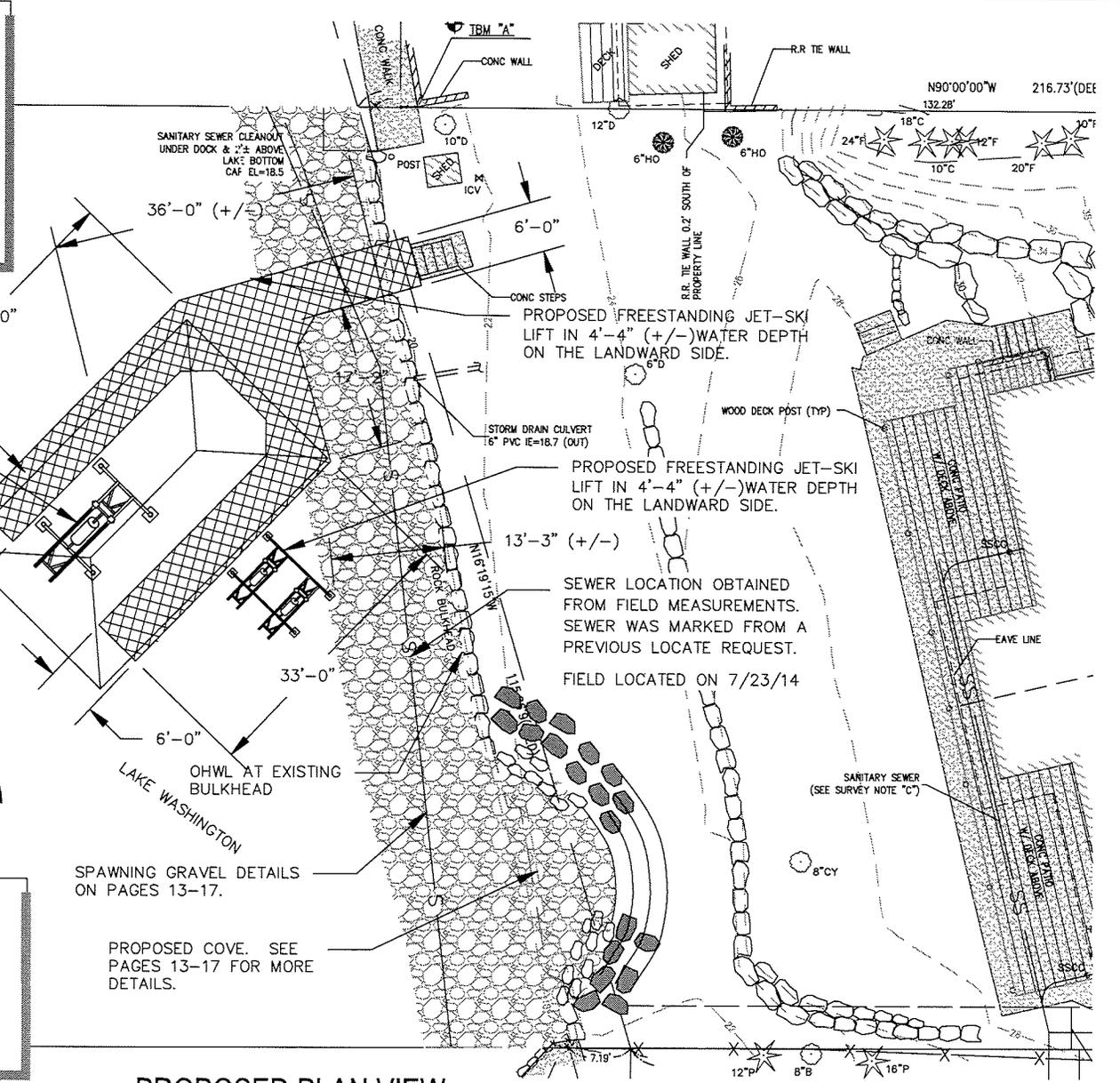
**WORK DESCRIPTION:**

REMOVE EXISTING DECKING, CAPS AND STRINGERS. SPLICE UP TO ALL OF THE PILES WITH ACZA TREATED PILE TOPS. REPLACE CAPS AND STRINGERS WITH ACZA TREADED WOOD. THE DECKING IS TO BE THRU-FLOW GRATED DECKING TO ALLOW FOR LIGHT PENETRATION. INTERMEDIATE STRINGERS TO BE ADDED TO SUPPORT GRATED DECKING. REPLACE AN EXISTING BOATLIFT WITH A FREESTANDING BOATLIFT OF COMPERABLE SIZE. INSTALL A DUAL FREESTANDING JET-SKI LIFT. CONSTRUCT A NATURAL COVE AS MITIGATION.

DOCK SQUARE FOOTAGE: 582 SQ. FT.



**NOTE:**  
 Property information for this site was obtained from a survey and a quarter section. Marine Restoration & Construction LLC has added information from other sources including field measurements and aerial photos. We are not surveyors and can not guarantee great level of accuracy.



**PROPOSED PLAN VIEW**  
 SCALE: 1" = 20'

PLOT DATE: 18 August 2014



**MARINE RESTORATION & CONSTRUCTION LLC**

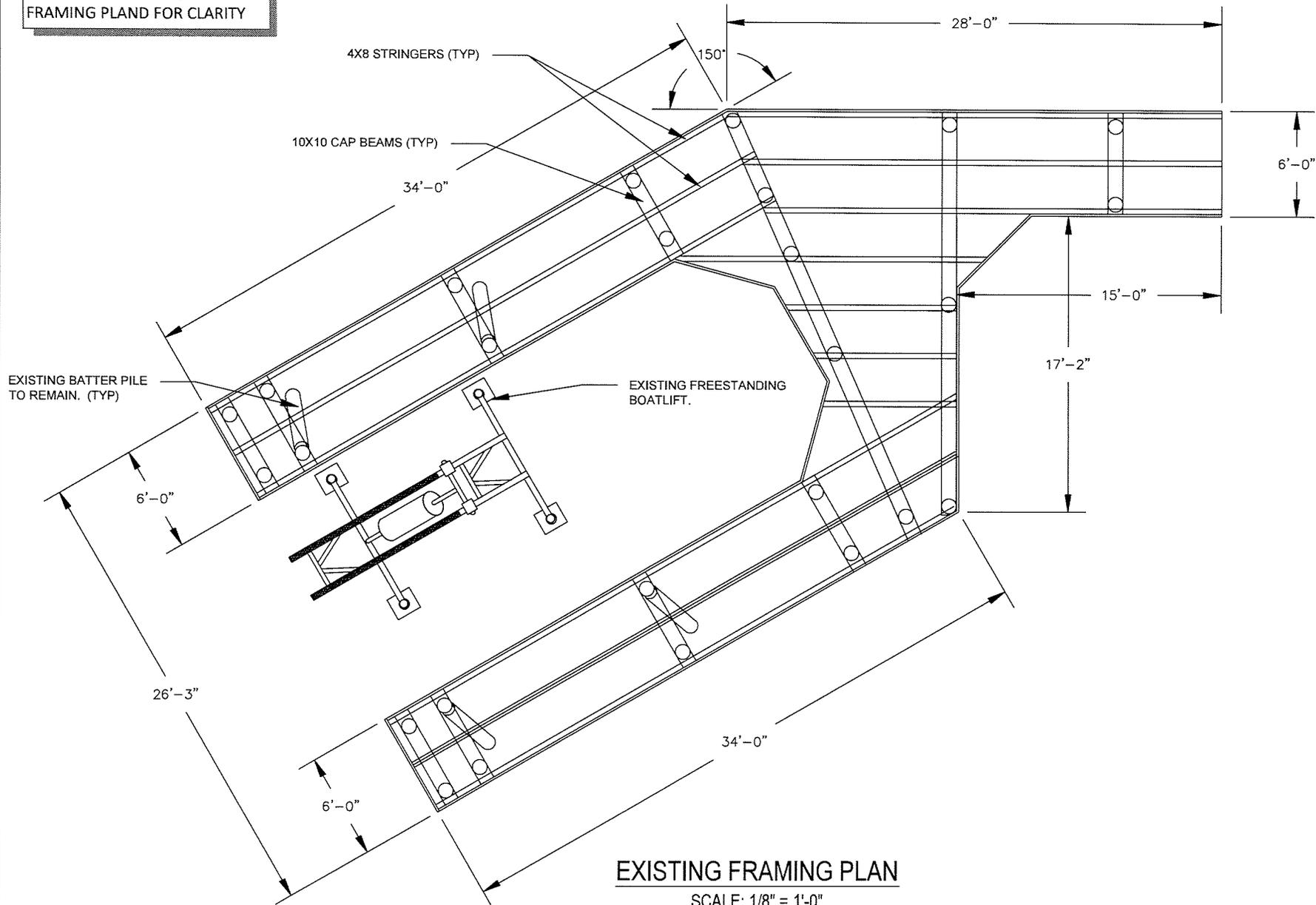
MAIL: P.O. BOX 884, Kirkland, WA 98083 - 0884

PHONE: (425) 576-8661  
 FAX: (425) 576-8669

E-MAIL: INFO@MARINELLC.COM

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**NOTE:**  
 ROOF OMMITTED FROM  
 FRAMING PLAND FOR CLARITY



**EXISTING FRAMING PLAN**  
 SCALE: 1/8" = 1'-0"

PLOT DATE: 18 August 2014



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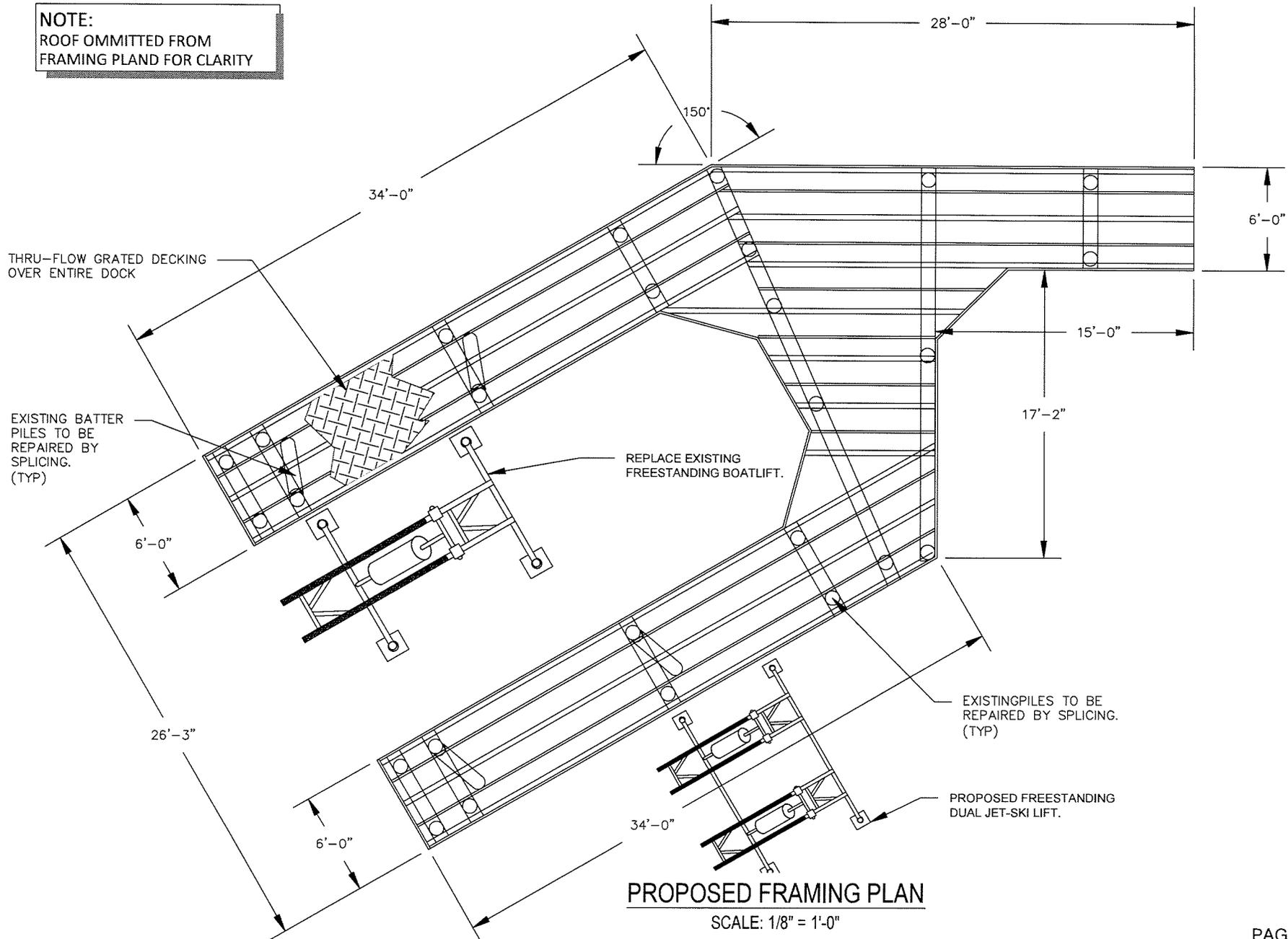
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**PROPOSED FRAMING PLAN**

SCALE: 1/8" = 1'-0"

PLOT DATE: 18 August 2014



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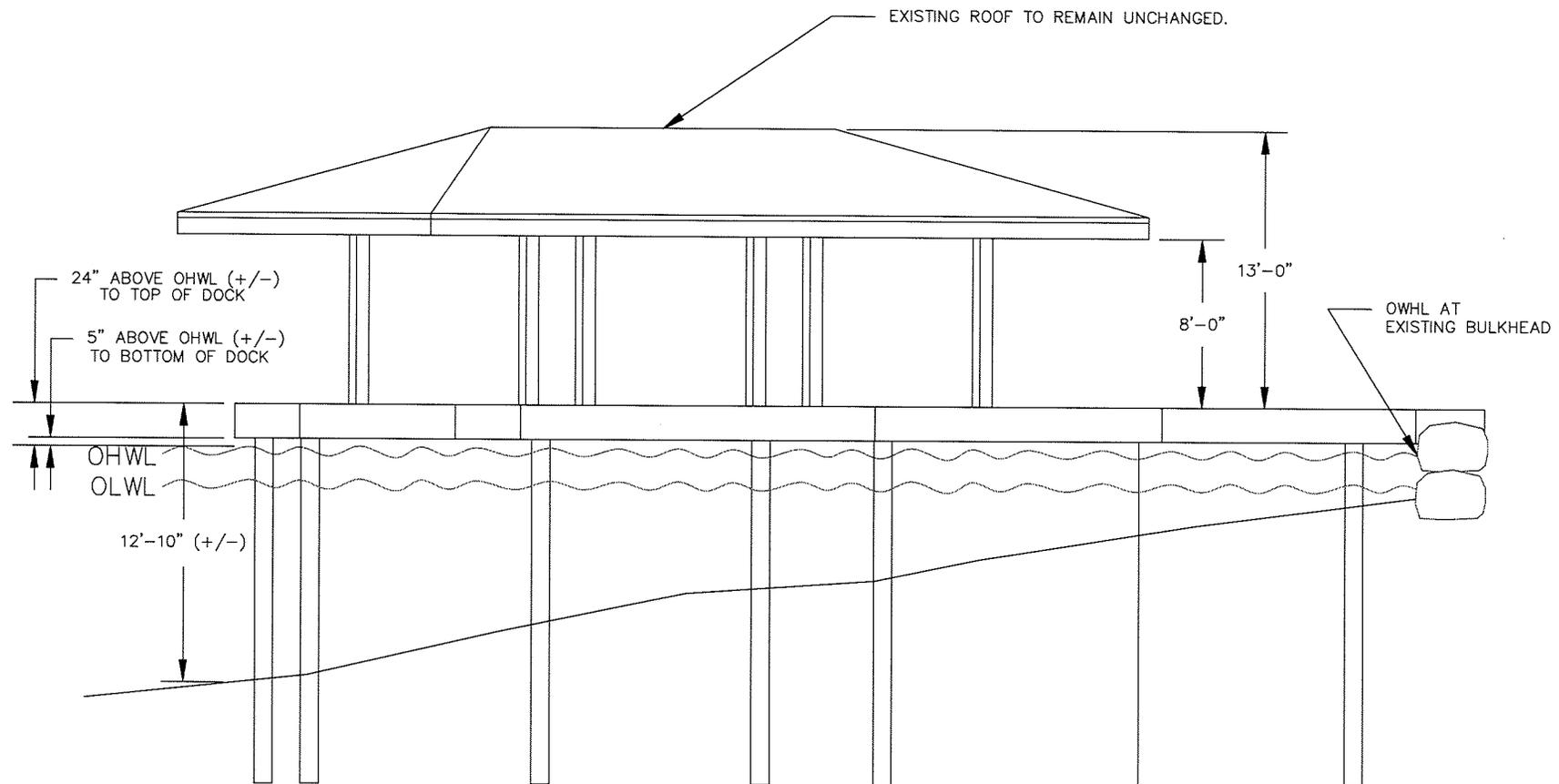
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**NOTE:**  
LIFTS OMITTED FROM  
ELEVATION FOR CLARITY



**EXISTING ELEVATION PLAN**

SCALE: 1/8" = 1'-0"



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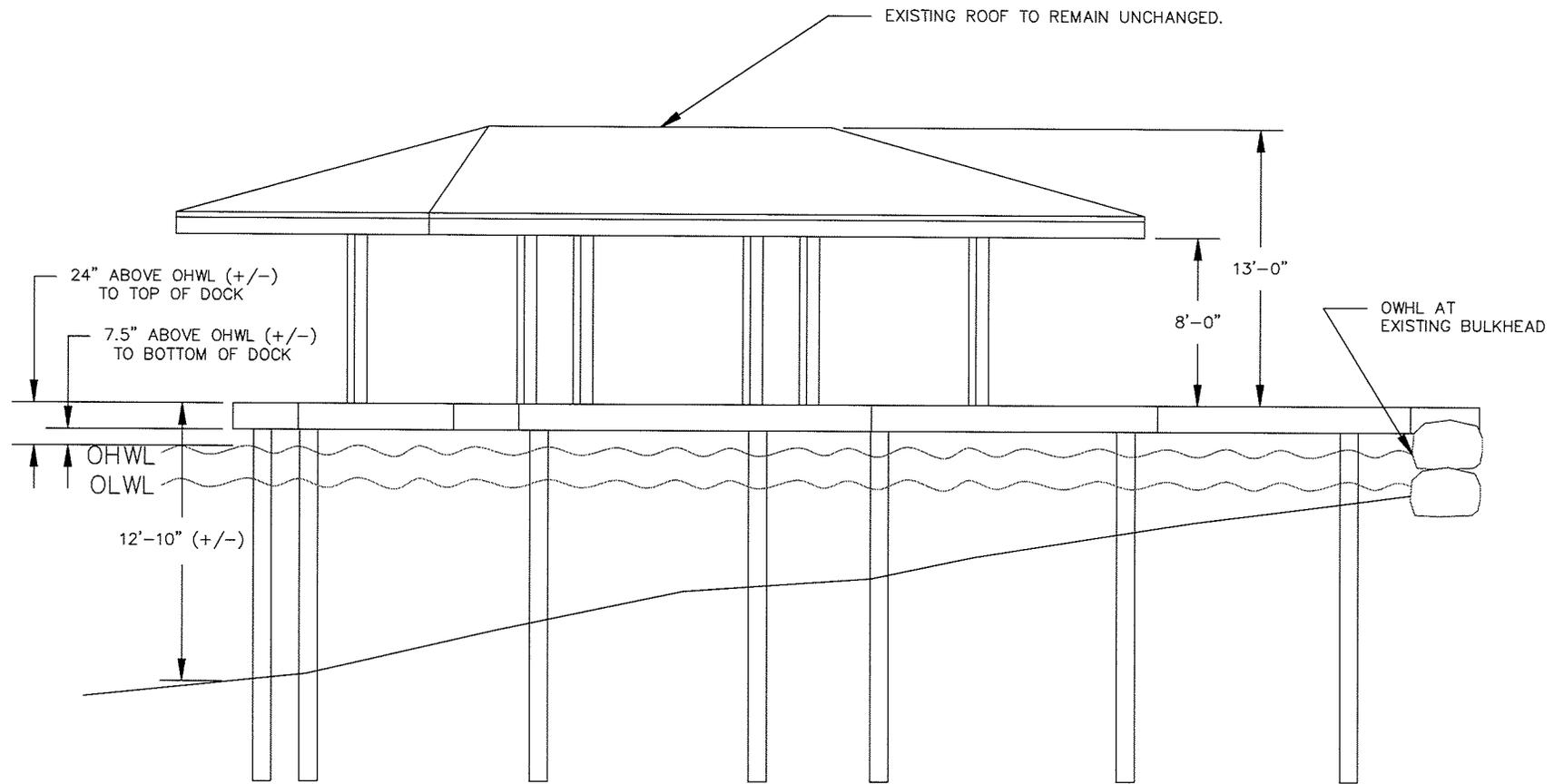
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**PROPOSED ELEVATION PLAN**

SCALE: 1/8" = 1'-0"



**MARINE RESTORATION & CONSTRUCTION LLC**

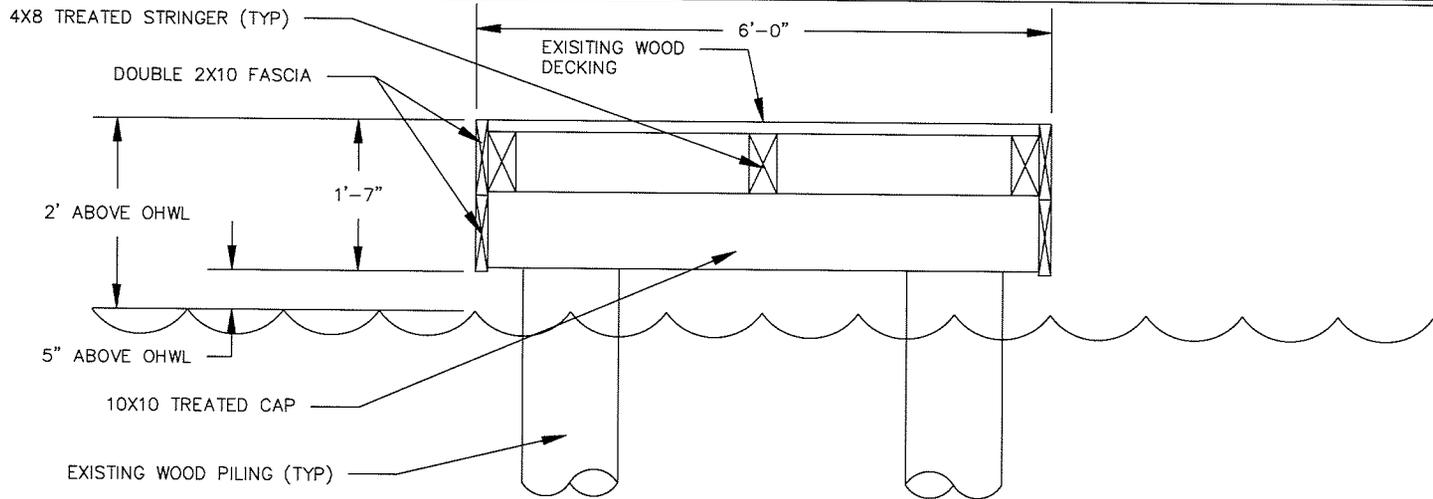
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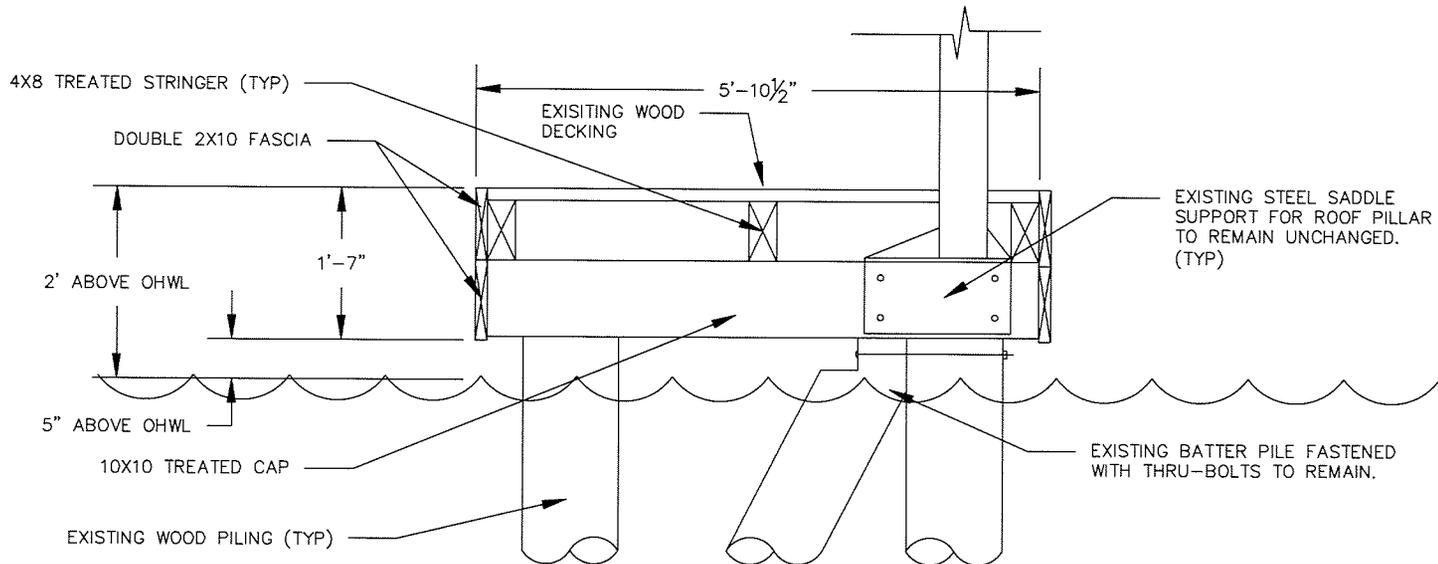
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**EXISTING DOCK SECTION**

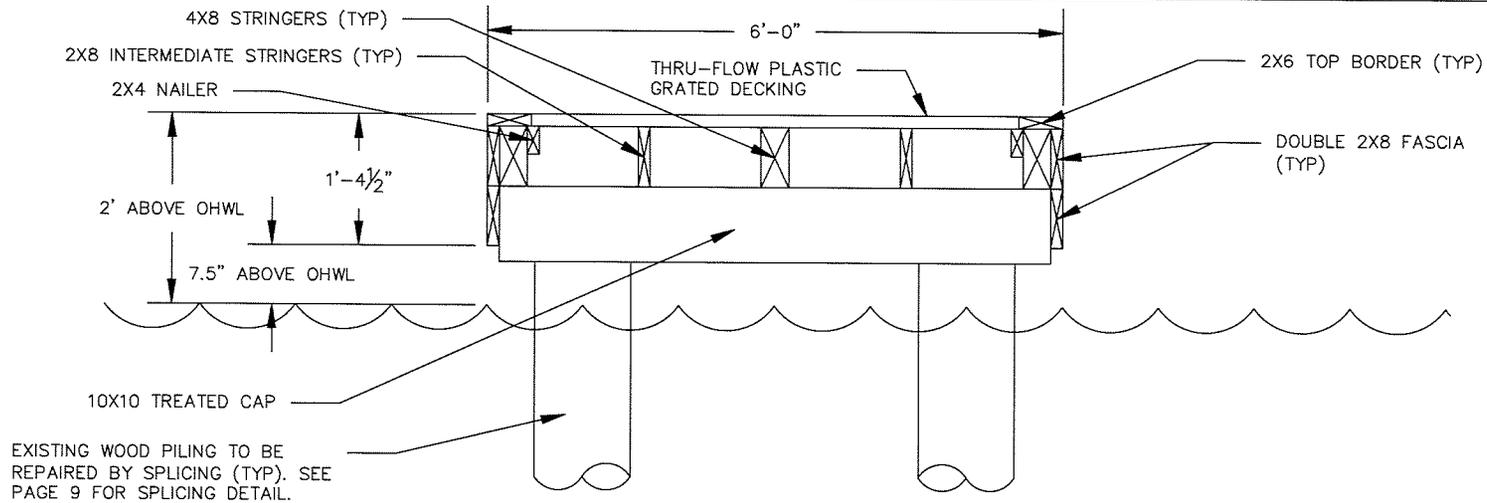
SCALE: 1/2" = 1'-0"



**EXISTING DOCK SECTION**

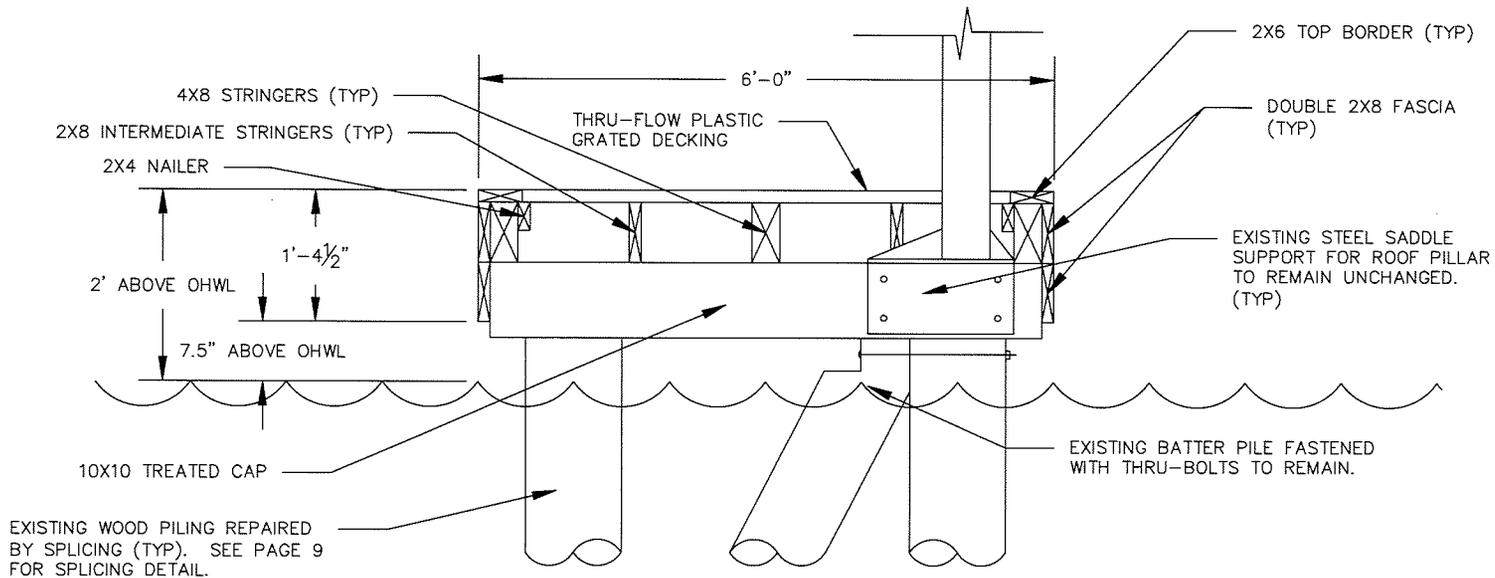
SCALE: 1/2" = 1'-0"





**PROPOSED DOCK SECTION**

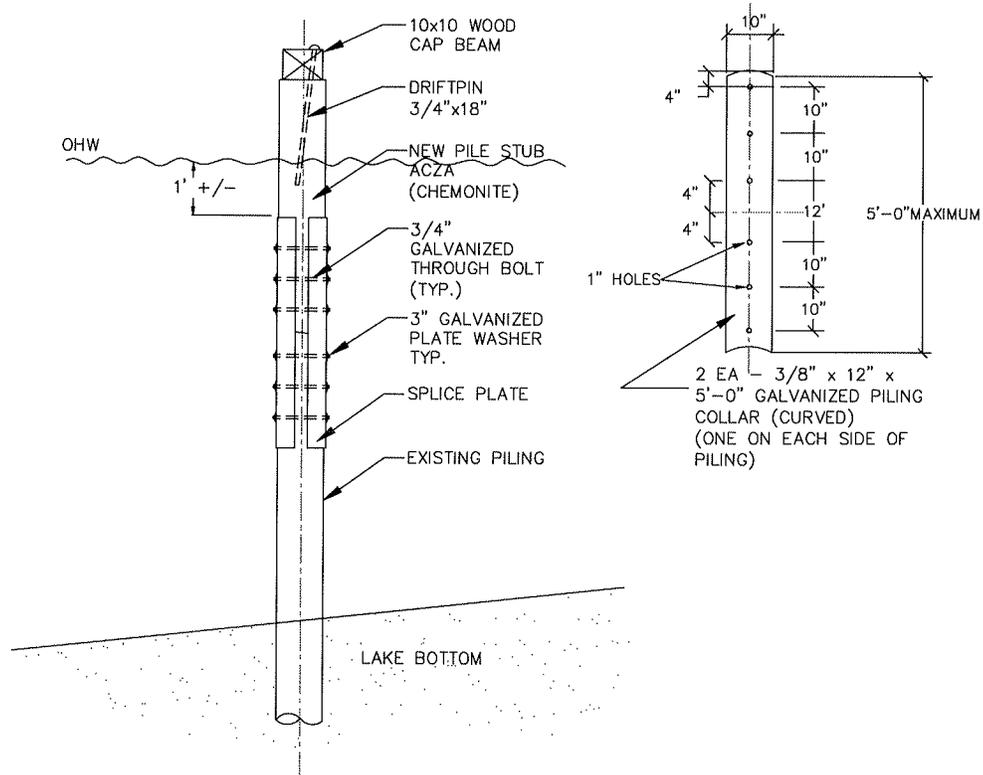
SCALE: 1/2" = 1'-0"



**PROPOSED DOCK SECTION**

SCALE: 1/2" = 1'-0"



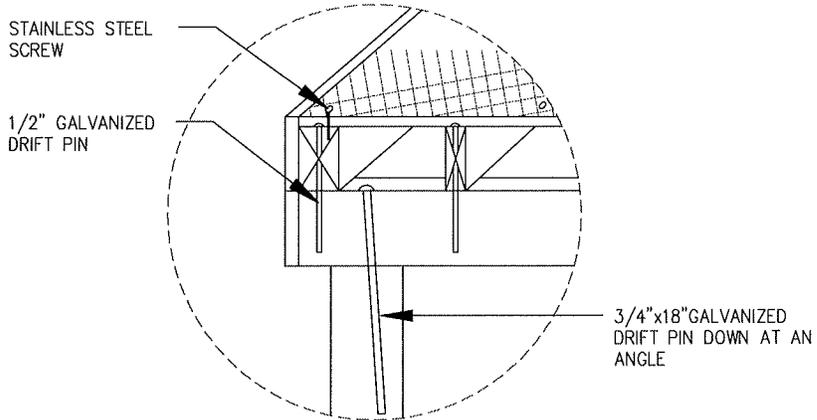


**STANDARD PILING SPLICING METHOD:**

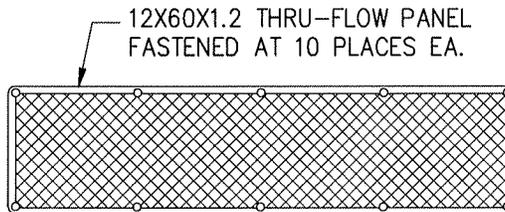
LOCATE POINT ON PILING BELOW ANY DETERIORATION OR ROT. CUT OFF PILING USING PNEUMATIC AIR SAW. CUT NEW PILING LENGTH (STUB) TO FIT IN. PLACE STUB IN PLACE WITH A SPLICE PLATE AND THRU BOLT USING GALVANIZED THRU BOLTS. SPLICE TO BE DONE APPROX 1' BELOW O.H.W. DRILLING TO BE DONE WITH A PNEUMATIC DRILL. LAKE BOTTOM TO REMAIN UNDISTURBED IN ALL CASES.

PILING SPLICE PLATES TO BE MADE OF 3/8" X 10" X 5' GALVANIZED STEEL PIPE AND THROUGH BOLTED WITH 3/4" GALVANIZED STEEL THROUGH BOLTS, NUTS, AND PLATE WASHERS.





**CONNECTION DETAIL**  
N.T.S.



**60" THRU-FLOW GRATED PANEL**  
N.T.S.



2" MINUS SPAWNING GRAVEL  
PLACED IN ON TOP OF A LAYER  
OF SAND PLACED IN FRONT OF  
ENTIRE BULKHEAD.

2-3 MAN ROCKS

3-4 MAN ROCKS

PROPOSED 35 LINEAR FEET (+/-)  
OF THE EXISTING ROCK  
BULKHEAD REMOVED AND  
REPLACED WITH ROCK  
TERRACING (16' +/-) TO  
CREATE AN EMBAYMENT  
AND POCKET BEACH.

SEWER LOCATION OBTAINED  
FROM FIELD MEASUREMENTS.  
SEWER WAS MARKED FROM A  
PREVIOUS LOCATE REQUEST.  
FIELD LOCATED ON 7/23/14

SEWER LOCATION OBTAINED  
FROM FIELD MEASUREMENTS.  
SEWER WAS MARKED FROM A  
PREVIOUS LOCATE REQUEST.

PROPOSED ROCK STEPS



# MARINE RESTORATION & CONSTRUCTION LLC

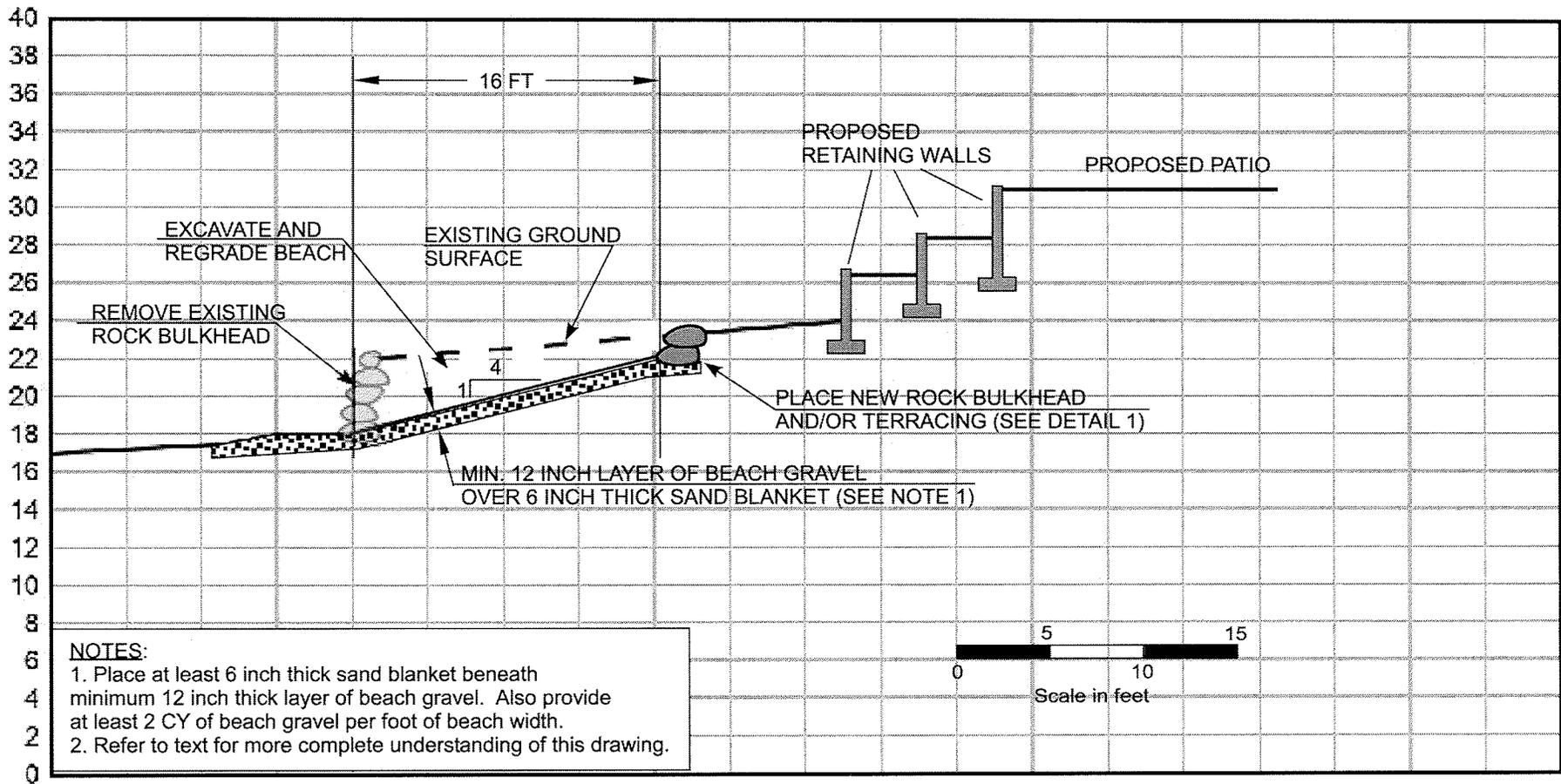
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**NOTES:**

1. Place at least 6 inch thick sand blanket beneath minimum 12 inch thick layer of beach gravel. Also provide at least 2 CY of beach gravel per foot of beach width.
2. Refer to text for more complete understanding of this drawing.



COVE DESIGNED BY:  **PERRONE CONSULTING, INC., P.S.**  
Project No. 13102

**PROPOSED COVE SECTION  
ELEVATION**  
SCALE: NTS

**NOTE:**  
PERRONE CONSULTING, INC DESIGNED THE COVE. MARINE RESTORATION & CONSTRUCTION LLC CANNOT BE HELD RESPONSIBLE FOR COVE DESIGN ASPECTS.



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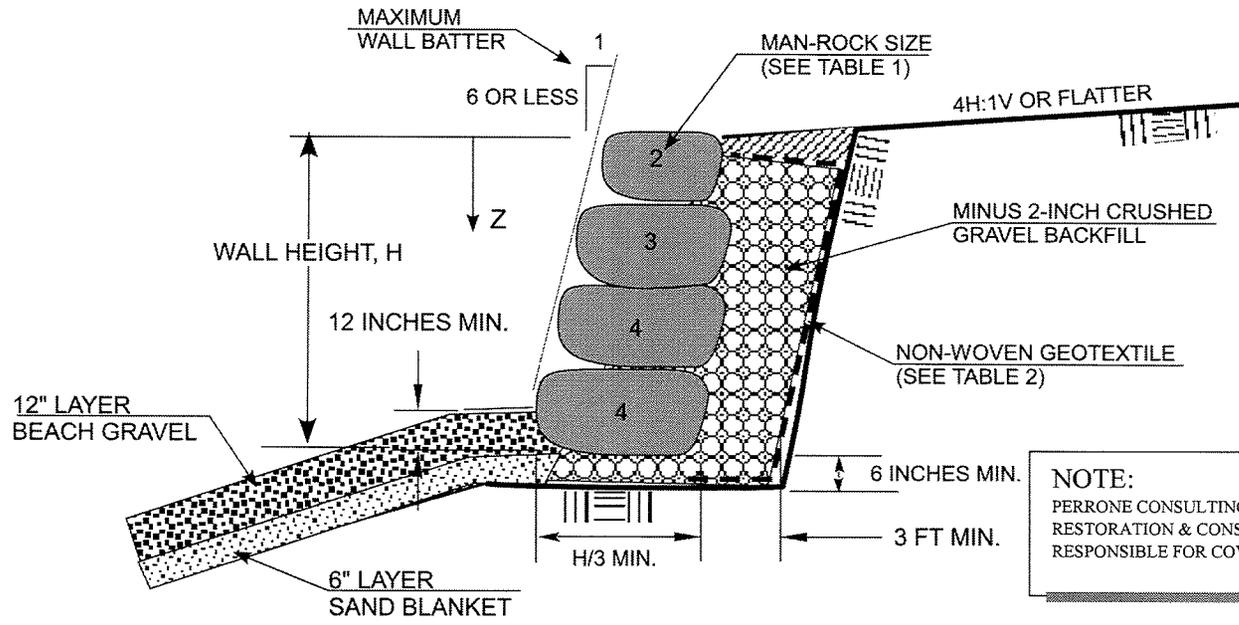


TABLE 1 - ROCK SIZES

H (ft)	Z (ft)	Minimum Man-Rock Size
< 3	0 to 3	2
3 to 6	0 to <3	2
	3 to 6	3

TABLE 2 -GEOTEXTILE PROPERTIES

Property	Requirement
Grab tensile strength	160 lbs min.
Grab failure strain	50%
Puncture strength	50 lbs min.
Tear strength	50 lbs min.
Permittivity	0.2 sec <sup>-1</sup>
Apparent opening size	0.25 mm
UV stability	50% strength after 500 hrs exposure.

**NOTES:**

1. Drawing is schematic only. Not drawn to scale.
2. Refer to text for more complete understanding of this drawing.
3. Temporary excavations should be shaped to maintain a stable slope.

COVE DESIGNED BY:  **PERRONE CONSULTING, INC., P.S.**  
Project No. 13102

**DETAIL 1 - ROCK BULKHEAD AND TERRACING**



**MARINE RESTORATION & CONSTRUCTION LLC**

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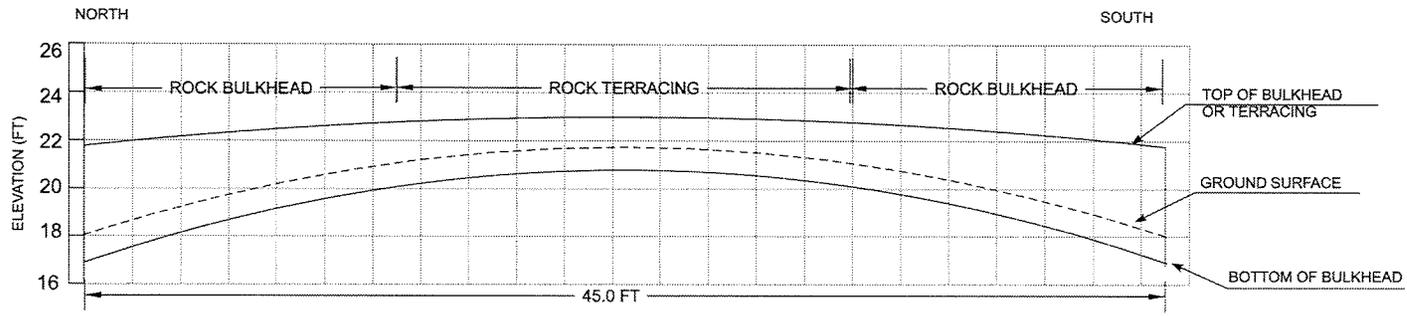
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PLOT DATE: 18 August 2014



ROCK BULKHEAD & TERRACING PROFILE

COVE DESIGNED BY:  **PERRONE CONSULTING, INC., P.S.**  
Project No. 13102

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PLOT DATE: 18 August 2014

# PROPOSED MITIGATION PLAN

SCALE: 1" = 20'

2" MINUS SPAWNING GRAVEL AND SANDPLACED IN FRONT OF THE EXISTING BULKHEAD (UP TO 70 CUBIC YARDS OF GRAVEL AND 35 CUBIC YARDS OF SAND).

GRATE ENTIRE SURFACE OF THE DOCK (582 SQ. FT)

SANITARY SEWER CLEANOUT UNDER DOCK & 2"± ABOVE LAKE BOTTOM CAP EL=18.5

CONC STEPS

STORM DRAIN CULVERT PVC IE=18.7 (OUT)

SEWER LOCATION OBTAINED FROM FIELD MEASUREMENTS. SEWER WAS MARKED FROM A PREVIOUS LOCATE REQUEST. FIELD MEASURED ON 7/23/14.

PROPOSED 35 (+/-) LINEAR FEET OF THE EXISTING ROCK BULKHEAD REMOVED AND REPLACED WITH ROCK TERRACING TO CREATE AN EMBAYMENT AND POCKET BEACH.

## PLANTING SCHEDULE:

TYPE:	SPACING:	QTY:	SIZE:	SYMBOL:
THUJA PLICATA WESTERN RED CEDAR	10' O.C.	7	5 GAL.	TP
ACER CIRCINATUM VINE MAPLE	6' O.C.	1	5 GAL.	AC
CORNUS SERICEA RED OSIER DOGWOOD	3' O.C.	21	1 GAL.	C
CAULATHERIA SHALLON SALAL	2' O.C.	93	1 GAL.	[Grid Pattern]
MAHONIA AQUIFOLIUM TALL OREGON GRAPE	4' O.C.	25	2 GAL.	M
RIBES SANGUINEUM RED CURRENT	3' O.C.	5	2-5 GAL.	S
VACCINIUM OVATIM EVERGREEN HUCKLBERRY	2' O.C.	39	2 GAL.	V
ARCTOSTAPHYLOS UVA-URSI KINNIKINNICK	3' O.C.	41	1 GAL.	[Diagonal Lines]

## OTHER MITIGATION:

COVE CONSTRUCTION: AN APPROXIMATELY 35 FOOT LONG SECTION OF THE EXISTING ROCK BULKHEAD WILL BE REMOVED AND REPLACED WITH ROCK TERRACING TO CREATE AN EMBAYMENT AND POCKET BEACH.

SPAWNING GRAVEL: 70 CUBIC YARDS OF 2" MINUS SPAWNING GRAVEL IS PROPOSED.

DOCK GRATING: THE WOOD DECKING (582 SQ. FT.) OF THE EXISTING PIER IS TO BE REPLACED WITH THRU-FLOW PLASTIC GRATED DECKING.

NOTE:  
COVE AND PLANTING PLAN BY:

Altmann Oliver Associates, LLC  
PO Box 578  
Carnation, WA 98014

