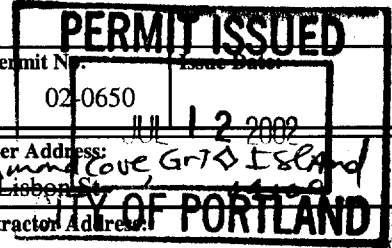


**City of Portland, Maine - Building or Use Permit Application**

389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716



Location of Construction: 92 West Shore Dr <i>Grt Island</i>		Owner Name: <i>Ernauld G Fitch</i> Androscooggin Savings Bank	Owner Address: <i>Diamond Cove Grt Island</i> 30 Lobban St <b>CITY OF PORTLAND</b>	Permit No: 02-0650	Issue Date: JUL 12 2002	CBL: 083E A005001
Business Name: n/a	Contractor Name: n/a SELF	Contractor Address: Portland		Phone: 207-766-5886		Phone: 207-766-5886
Lessee/Buyer's Name n/a	Phone: n/a	Permit Type: Additions - Dwellings			Zone: <i>IR-1</i>	
Past Use: Vacant / Prior use WW II Power Plant	Proposed Use: Replace Roof System for Future Single Family Dwelling.	Permit Fee: \$233.00	Cost of Work: \$30,000.00	CEO District: 1		
Proposed Project Description: <i>RePlace Roof System - only</i>		FIRE DEPT: <input type="checkbox"/> Approved <input checked="" type="checkbox"/> Denied <i>N/A</i>		INSPECTION: Use Group: <i>Vacant</i> Type: <i>5B</i> <i>BOCA 1999</i>		
		Signature: _____		Signature: <i>[Signature]</i>		
		PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.)				
		Action: <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied				
		Signature: _____ Date: _____				

Permit Taken By: gg	Date Applied For: 06/13/2002	<b>Zoning Approval</b>				
------------------------	---------------------------------	------------------------	--	--	--	--

<p>1. This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules.</p> <p>2. Building permits do not include plumbing, septic or electrical work.</p> <p>3. Building permits are void if work is not started within six (6) months of the date of issuance. False information may invalidate a building permit and stop all work..</p>	<p><b>Special Zone or Reviews</b></p> <p><input checked="" type="checkbox"/> Shoreland <i>within 250'</i> <i>but just over 75' from water</i></p> <p><input type="checkbox"/> Wetland</p> <p><input type="checkbox"/> Flood Zone</p> <p><input type="checkbox"/> Subdivision</p> <p><input type="checkbox"/> Site Plan</p> <p>Maj <input type="checkbox"/> Minor <input type="checkbox"/> MM <input type="checkbox"/> -</p> <p><i>Just Bldg - No increase in area</i> <i>9-Zone</i></p> <p>Date: <i>6/13/02</i></p>	<p><b>Zoning Appeal</b></p> <p><input type="checkbox"/> Variance</p> <p><input type="checkbox"/> Miscellaneous</p> <p><input type="checkbox"/> Conditional Use</p> <p><input type="checkbox"/> Interpretation</p> <p><input type="checkbox"/> Approved</p> <p><input type="checkbox"/> Denied</p> <p>Date: _____</p>	<p><b>Historic Preservation</b></p> <p><input checked="" type="checkbox"/> Not in District or Landmark</p> <p><input type="checkbox"/> Does Not Require Review</p> <p><input type="checkbox"/> Requires Review</p> <p><input type="checkbox"/> Approved</p> <p><input type="checkbox"/> Approved w/Conditions</p> <p><input type="checkbox"/> Denied</p> <p>Date: <i>[Signature]</i></p>
	<p><i>ok with conditions</i></p>		

**CERTIFICATION**

I hereby certify that I am the owner of record of the named property, or that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his authorized agent and I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in the application is issued, I certify that the code official's authorized representative shall have the authority to enter all areas covered by such permit at any reasonable hour to enforce the provision of the code(s) applicable to such permit.

\_\_\_\_\_  
SIGNATURE OF APPLICANT ADDRESS DATE PHONE

\_\_\_\_\_  
RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE DATE PHONE

Application ID Number: 2-0650

Department: Zoning Status: Approved with Conditions Reviewer: Marge Schmuckal

Comments: 92 West Shore Drive, Great Diamond Island Approval Date: 06/18/2002

Plan Set Date: 06/14/2002

OK to Issue Permit Name: Marge Schmuckal Date: 06/18/2002 Page 2

Conditions Window

This permit is for the roof structure on the existing building only. A separate permit shall be required when any interior work is done to convert this vacant building to a single family home.

The roof over hang shall not be more than 2 feet.

The roof height shall not be raised to create a new story. The original building roof height shall be maintained.

Create Date: 06/13/2002 By: gg Update Date: 06/18/2002 By: mes

# DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK CITY OF PORTLAND

Please Read  
Application And  
Notes, If Any,  
Attached

BUILDING DEPARTMENT

## PERMIT

Permit Number: 020650

This is to certify that Androscoggin Savings Bank SELF

has permission to RePlace Roof System

AT 92 West Shore Dr Great Island 083E A005001

provided that the person or persons, firm or corporation accepting this permit shall comply with all of the provisions of the Statutes of Maine and of the ordinances of the City of Portland regulating the construction, maintenance and use of buildings and structures, and of the application on file in this department.

Apply to Public Works for street line and grade if nature of work requires such information.

Notification of inspection must be given and when permission is procured before this building or part thereof is altered or closed-in. 24 HOUR NOTICE IS REQUIRED.

A certificate of occupancy must be procured by owner before this building or part thereof is occupied.

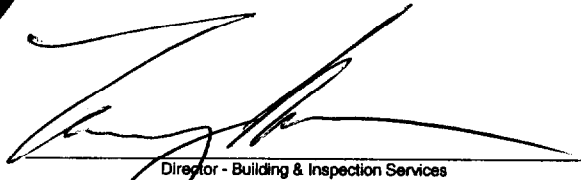
### OTHER REQUIRED APPROVALS

Fire Dept. \_\_\_\_\_

Health Dept. \_\_\_\_\_

Appeal Board \_\_\_\_\_

Other \_\_\_\_\_  
Department Name

  
Director - Building & Inspection Services

### PENALTY FOR REMOVING THIS CARD

83E-A-005

# All Purpose Building Permit Application

If you or the property owner owes real estate or personal property taxes or user charges on any property within the City, payment arrangements must be made before permits of any kind are accepted.

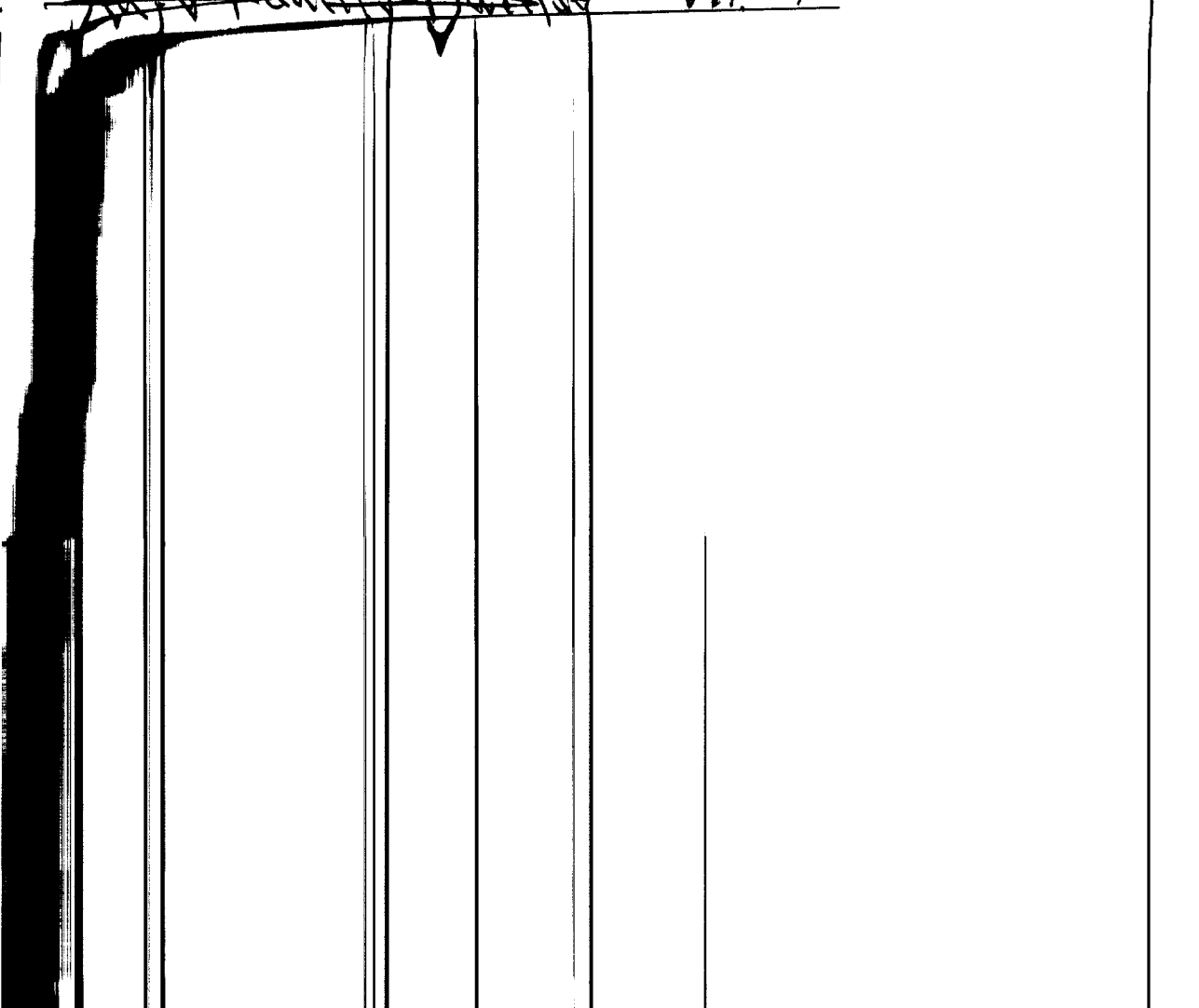
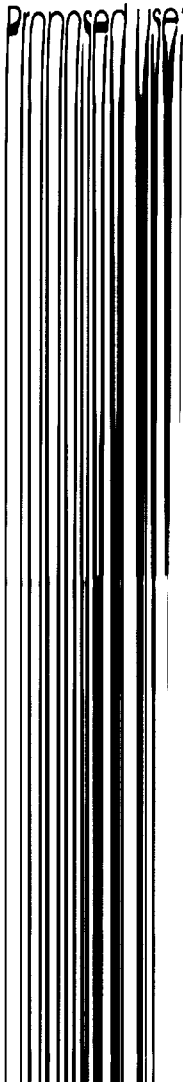
Location/Address of Construction: <u>Diamond Cove Lot # 5</u>		
Total Square Footage of Proposed Structure <u>3000 ±</u>	Square Footage of Lot <u>47,881 ±</u>	
Tax Assessor's Chart, Block & Lot Chart# <u>083</u> Block# <u>E</u> Lot# <u>A</u>	Owner: <u>Ronald G. Fitch</u>	Telephone: <u>766-5886</u>
Lessee/Buyer's Name (If Applicable)	Applicant name, address & telephone: <u>Ronald G. Fitch</u> <u>Diamond Cove 170 Diamond Is</u> <u>01109 766-5886</u>	Cost Of Work: <u>\$30,000 -</u> Fee: <u>\$233.00</u>

Current use: VACANT

If the location is currently vacant, what was prior use: WW II Power Plant

Approximately how long has it been vacant: 57 Years

~~SWP Power Plant~~ VACANT STRUCTURE



83E-A - 005

# All Purpose Building Permit Application

If you or the property owner owes real estate or personal property taxes or user charges on any property within the City, payment arrangements must be made before permits of any kind are accepted.

Location/Address of Construction: <u>Diamond Cove Lot # 5</u>		
Total Square Footage of Proposed Structure <u>3000 ±</u>	Square Footage of Lot <u>47,881 ±</u>	
Tax Assessor's Chart, Block & Lot Chart# <u>083</u> Block# <u>E A</u> Lot# <u>005</u>	Owner: <u>Ronald G. Fitch</u>	Telephone: <u>766-5886</u>
Lessee/Buyer's Name (If Applicable)	Applicant name, address & telephone: <u>Ronald G. Fitch</u> <u>Diamond Cove, 170 Diamond Is</u> <u>01109 766-5886</u>	Cost Of Work: <u>\$30,000 -</u> Fee: <u>\$233.00</u>
Current use: <u>VACANT</u>		
If the location is currently vacant, what was prior use: <u>WW II Power Plant</u>		
Approximately how long has it been vacant: <u>57 Years</u>		
Proposed use: <del>Single Family Dwelling</del> <u>VACANT STRUCTURE</u>		
Project description: <u>REPLACE ROOF SYSTEM on building</u>		
Contractor's name, address & telephone: <u>Owner</u>		
Who should we contact when the permit is ready: <u>Owner</u>		
Mailing address:		
We will contact you by phone when the permit is ready. You must come in and pick up the permit and review the requirements before starting any work, with a Plan Reviewer. A stop work order will be issued and a \$100.00 fee if any work starts before the permit is picked up. PHONE: <u>766-5886</u>		

939-4339

**IF THE REQUIRED INFORMATION IS NOT INCLUDED IN THE SUBMISSIONS THE PERMIT WILL BE AUTOMATICALLY DENIED AT THE DISCRETION OF THE BUILDING/PLANNING DEPARTMENT, WE MAY REQUIRE ADDITIONAL INFORMATION IN ORDER TO APPROVE THIS PERMIT.**

I hereby certify that I am the Owner of record of the named property, or that the owner of record authorizes the proposed work and that I have been authorized by the owner to make this application as his/her authorized agent. I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in this application is issued, I certify that the Code Official's authorized representative shall have the authority to enter all areas covered by this permit at any reasonable hour to enforce the provisions of the codes applicable to this permit.

Signature of applicant: 	Date: <u>6</u>
---	----------------

**This is NOT a permit, you may not commence ANY work until the permit is issued. If you are in a Historic District you may be subject to additional permitting and fees with the Planning Department on the 4th floor of City Hall**

# BOISE CASCADE - BC CALC™ 2001 DESIGN REPORT - US

Tuesday, June 11, 2002 14:38



## Single - 14" BCI 900s

Job Name - FITCH  
 Address -  
 City, State, Zip - PORTLAND, ME  
 Code Reports - NER 594, ICBO 5208

File Name: Fitch.bcc  
 Customer -  
 Specifier -  
 Designer -  
 Company: -  
 Misc: -

RAFTER



Standard Load - 60 PSF | 20 PSF | OC Spacing 16"

1-3/4"  
 80  
 720 lbs L  
 243 lbs DL

1-3/4"  
 B1  
 720 lbs LL  
 243 lbs DL

Total Horizontal Length - 18-00-00

### General Data

Version: US Imperial  
 Member Type: - Rafter  
 Number of Spans - 1  
 Left Cantilever - No  
 Right Cantilever - No  
 Slope 2/12  
 OC Spacing 16"  
 Repetitive Yes  
 Construction Type n/a  
 Live Load 60 PSF  
 Dead Load 20 PSF  
 Part Load 0 PSF  
 Duration 115

### Load Summary

ID	Description	Load Type	Ref.	Start	End	Live	Dead	OCS	Dur.
S	Standard	Unf.Area Load	Left	00-00-00	18-00-00	60 PSF	20 PSF	16"	115

### Controls Summary

Control Type	Value	% Allowable	Duration	Loadcase	Span Location
Moment	4335 ft-lbs	36.3%	@ 115%	2	1 - Internal
End Reaction	963 lbs	57.8%	@ 115%	2	1 - Left
Total Deflection	L/645 (0.339")	27.9%		2	1
Live Deflection	L/863 (0.254")	55.6%		2	1
Max. Defl.	0.339" (Limit: 1")	33.9%		2	1
Span/Depth	15.4				1

### Bearing Supports

Name	Type	Dim. (L x W)	Value	% Allowed	Case	Material
B0	Wall/Plate	1-3/4" x 3-1/2"	963 lbs	37.0%	2	Spruce-Pine-Fir
B1	Wall/Plate	1-3/4" x 3-1/2"	963 lbs	37.0%	2	Spruce-Pine-Fir

### Disclosure

The completeness and accuracy of the input must be verified by anyone who would rely on the output as evidence of suitability for a particular application. The output above is based upon building code-accepted design properties and analysis methods. Installation of Boise Cascade engineered wood products must be in accordance with the current Installation Guide and the applicable building codes. To obtain an Installation Guide or if you have any questions, please call (800)232-0788 before beginning product installation.

### NOTES:

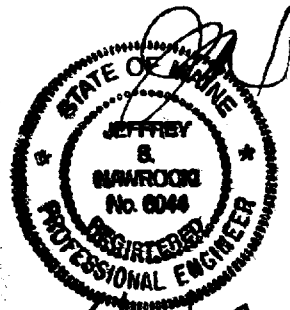
Design meets Code minimum (L/180) Total load deflection criteria.  
 Design meets User specified (L/480) Live load deflection criteria.  
 Design meets arbitrary (1") Maximum load deflection criteria.

### Disclaimer:

The supplier acknowledges that it has requested JSN Associates, Inc. to review a pre-engineered building product identified as above for the span and loading conditions shown on this calculation sheet. The supplier further acknowledges that JSN Associates, Inc. will not engineer, design, manufacture or erect said item and is not responsible in any way for defects or deficiencies. Therefore, the supplier waves all claims against JSN Associates, Inc. arising in any way from any defects, deficiencies, errors or omissions in the final determination, design, fabrication or erection of said item.

### Note:

Adequate design of supporting structure must be provided by others



6/12/02

BOISE CASCADE - BC CALC™ 2001a DESIGN REPORT - US

Tuesday, June 11, 2002 14:57

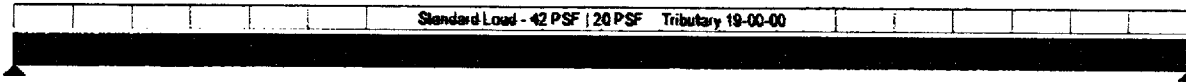


Single - 5 1/4" x 16" V-L DF 3080

Job Name - FITCH
Address -
City, State, Zip - GREAT DIAMOND ISLAND, ME
Code Reports - ICBO 5683, NER 442

File Name: Fitch2.bcc
Customer:
Specifier:
Designer: WOOD STRUCTURES, INC.
Company: WOOD STRUCTURES, INC.
Misc:

ROOF BEAM



7182 lbs LL
3614 lbs D

7182 lbs LL
3614 lbs DL

Total Horizontal Length - 18-00-00

General Data

Version: US Imperial
Member Type: - Roof Beam
Number of Spans: - 1
Left Cantilever: - No
Right Cantilever: - No
Slope: 0/12
Tributary: 19-00-00
Repetitive: n/a
Construction Type: n/a
Live Load: 42 PSF
Dead Load: 20 PSF
Part Load: 0 PSF
Duration: 115

Load Summary

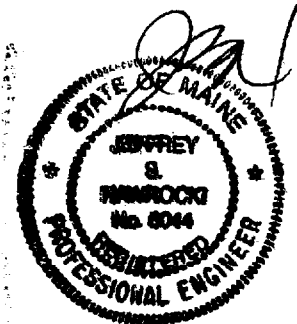
Table with columns: ID, Description, Load Type, Ref, Start, End, Live, Dead, Trib., Dur. Row 1: S Standard, Unf. Area Load, Left, 00-00-00, 18-00-00, 42 PSF, 20 PSF, 19-00-00, 115

Controls Summary

Table with columns: Control Type, Value, % Allowable, Duration, Loadcase, Span Location. Rows include Moment (48583 ft-lbs, 75.9%), End Shear (9197 lbs, 50.1%), Total Deflection (L/273, 65.9%), Live Deflection (L/410, 58.4%), Max. Defl. (0.791", 79.1%), Span/Depth (13.5)

NOTES:

Design meets Code minimum (L/180) Total load deflection criteria.
Design meets Code minimum (L/240) Live load deflection criteria.
Design meets arbitrary (1") Maximum load deflection criteria.
Minimum bearing length for B0 is 2-1/4".
Minimum bearing length for B1 is 2-1/4".
Member Slope = 0, consider drainage.



Handwritten date: 6/12/02

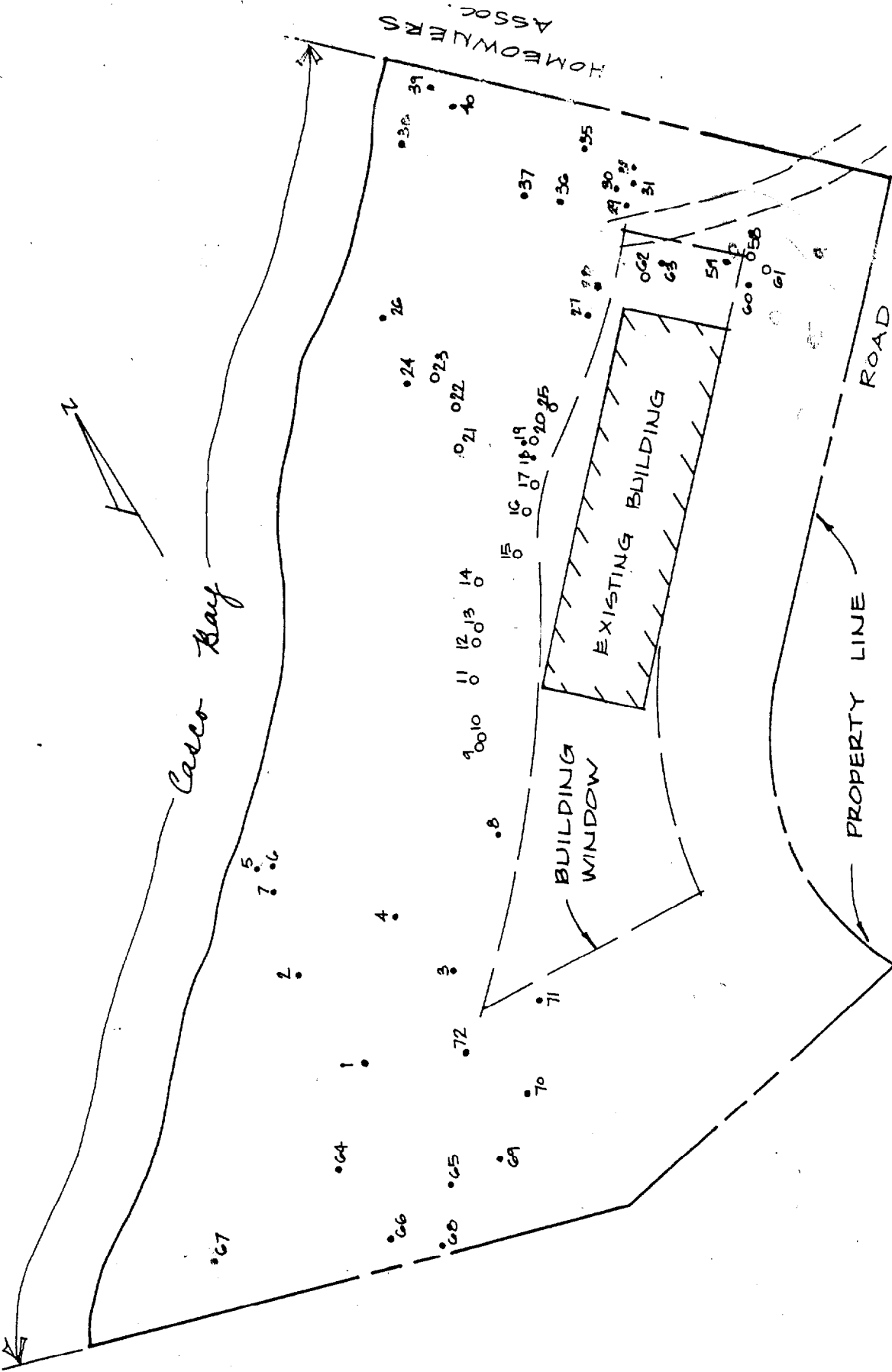
Disclosure

The completeness and accuracy of the input must be verified by anyone who would rely on the output as evidence of suitability for a particular application. The output above is based upon building code-accepted design properties and analysis methods. Installation of Boise Cascade engineered wood products must be in accordance with the current Installation Guide and the applicable building codes. To obtain an Installation Guide or if you have any questions, please call (800)232-0788 before beginning product installation.

Disclaimer:

The supplier acknowledges that it has requested JSN Associates, Inc. to review a pre-engineered building product identified as above for the span and loading conditions shown on this calculation sheet. The supplier further acknowledges that JSN Associates, Inc. will not engineer, design, manufacture or erect said item and is not responsible in any way for defects or deficiencies. Therefore, the supplier waives all claims against JSN Associates, Inc. arising in any way from any defects, deficiencies, errors or omissions in the load determination, design, fabrication or erection of said item.

Note: Adequate design of supporting structure must be provided by others



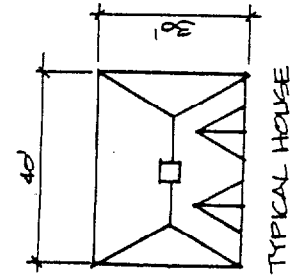
HOMESOWNERS ASSOC.

Casco Bay

EXISTING BUILDING  
BUILDING WINDOW

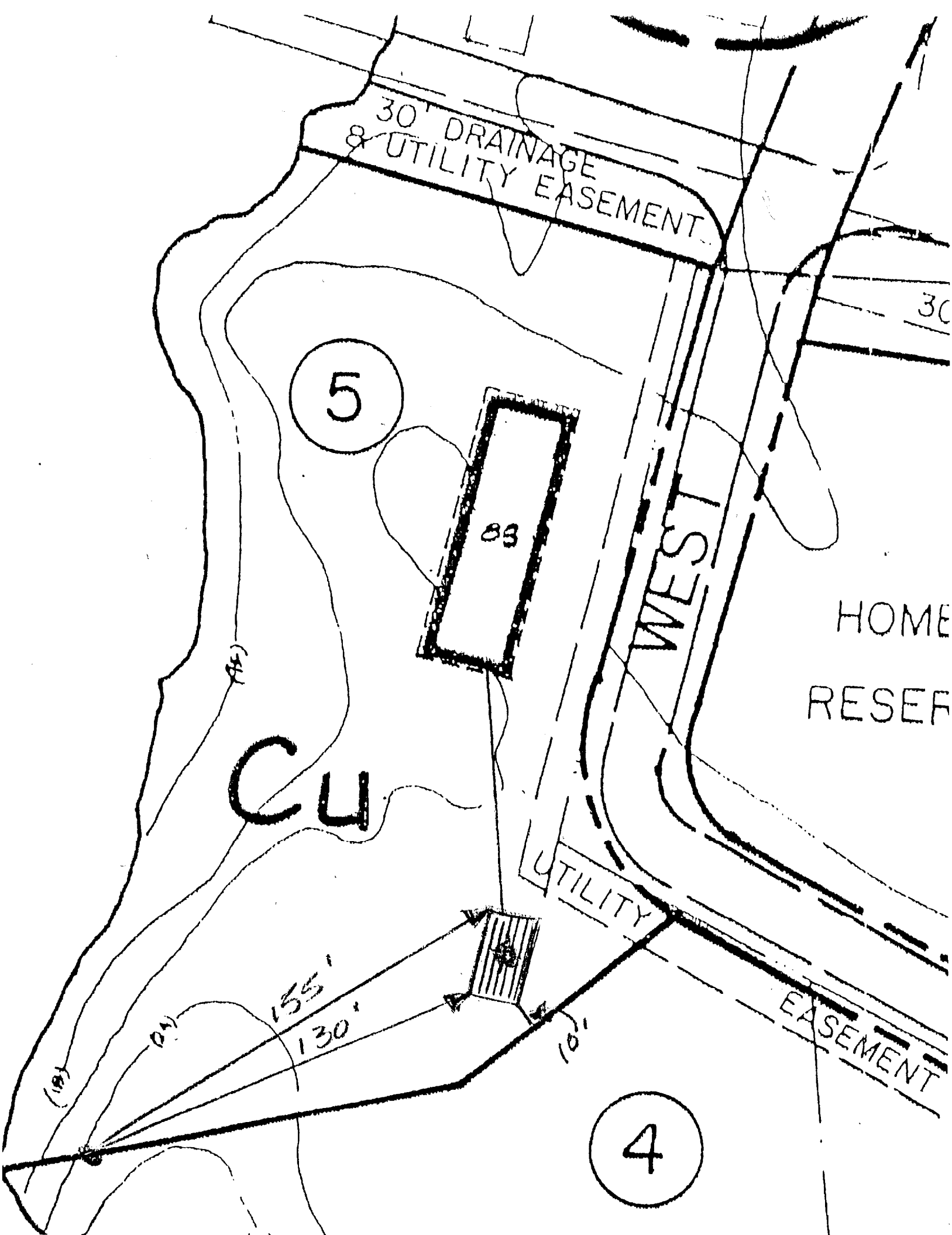
PROPERTY LINE  
ROAD

LEGEND  
 ○ 4" - 6" DBH  
 ● 6" + DBH

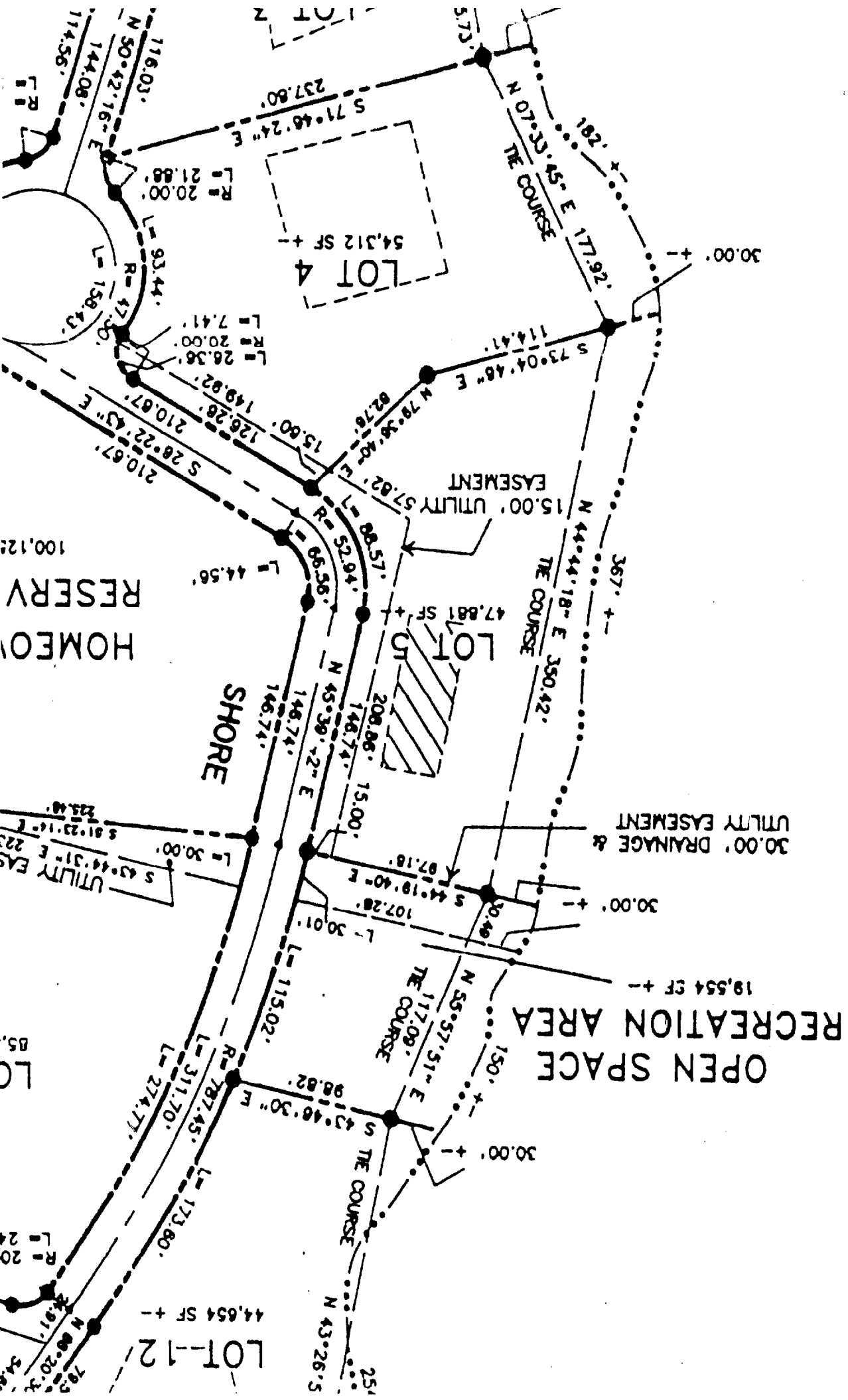


LOT 5 - 1.119 AC. ±  
 DIAMOND COVE - PHASE II  
 SEPT. 1988 1" = 40' ±





ANTIC OCEAN



HOMEO RESERV

LC

DEPARTMENT OF ENVIRONMENTAL PROTECTION  
PERMIT BY RULE NOTIFICATION FORM  
(For use with DEP Regulation, Chapter 305)

HAND DELIVERED

RECEIVED DEP-5MRO

PLEASE TYPE OR PRINT IN BLACK INK ONLY (3 COPIES, PLEASE BEAR DOWN)

Name of Applicant: <b>ROSE SANDRA FITZ</b>		Name of Owner: <b>SAHE-B 11:47</b>	
Mailing Address: <b>LOT 5 WEST SHORE DRIVE DIAMOND COVE</b>		Town/City: <b>PORTLAND</b>	
State: <b>ME</b>	Zip Code: <b>04109</b>	Daytime Telephone No: <b>207 766 5886</b>	
Name of Wetland, Water Body or Stream: <b>CASCO BAY</b>			
Detailed Directions to Site: <b>CASCO BAY LINES TO DIAMOND COVE, LOT 5 IS LOCATED IN PHASE II OF DEVELOPMENT, WEST SHORE DRIVE</b>			
Project Location: (Town/City): <b>PORTLAND</b>		UTM Northing:	UTM Easting:
Map #:	Lot #:	County: <b>CUMBERLAND</b>	
Description of Project: <b>CONVERSION OF WWII NAVAL HEATING PLANT TO RESIDENTIAL HOME - REMOVAL OF COAL REVEGETATING BARE AREAS AS SHOWN ON DRAWINGS</b>			
		Part of a larger project?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

(CHECK ONE) This project: does  does not  involve work below mean low water. **D.C. ALREADY APPROVED**

I am filing notice of my intent to carry out work which meets the requirements for Permit By Rule (PBR) under DEP Regulation, Chapter 305. I have a copy of PBR Sections checked below. I have read and will comply with all of the standards.

- |   |   |   |
|---|---|---|
| <input checked="" type="checkbox"/> Sec. (2) Soil Disturbance     | <input type="checkbox"/> Sec. (8) Shoreline stabilization                         | <input type="checkbox"/> Sec. (14) Piers, Wharves & Pilings   |
| <input type="checkbox"/> Sec. (3) Intake Pipes                    | <input type="checkbox"/> Sec. (9) Utility Crossing                                | <input type="checkbox"/> Sec. (15) Public Boat Ramps          |
| <input type="checkbox"/> Sec. (4) Replacement of Structures       | <input type="checkbox"/> Sec. (10) Stream Crossing                                | <input type="checkbox"/> Sec. (16) Coastal Sand Dune Projects |
| <input type="checkbox"/> Sec. (5) REPEALED                        | <input type="checkbox"/> Sec. (11) State Transportation Facilities                | <input type="checkbox"/> Sec. (17) Transfers/Permit Extension |
| <input type="checkbox"/> Sec. (6) Movement of Rocks or Vegetation | <input type="checkbox"/> Sec. (12) Restoration of Natural Areas                   | <input type="checkbox"/> Sec. (18) Maintenance Dredging       |
| <input type="checkbox"/> Sec. (7) Outfall Pipes                   | <input type="checkbox"/> Sec. (13) F&W Creation/Enhance/Water Quality Improvement |   |

I authorize staff of the Departments of Environmental Protection, Inland Fisheries & Wildlife, and Marine Resources to access the project site for the purpose of determining compliance with the rules. I also understand that **this permit is not valid until approved by the Department or 14 days after receipt by the Department, whichever is less.**

I have attached all of the following required submittals. NOTIFICATION FORMS CANNOT BE ACCEPTED WITHOUT THE NECESSARY ATTACHMENTS:

- Attach** a check for \$50 (non-refundable) made payable to: "Treasurer, State of Maine".
- Attach** a U.S.G.S. topo map or Maine Atlas & Gazetteer map with the project site clearly marked.
- Attach** photographs showing existing site conditions (unless not required under standards).

Signature of Applicant: <b>Sandra C. Fitz</b>	Date: <b>6/3/02</b>
---	---------------------

Keep the bottom copy as a record of permit. Send the form with attachments via certified mail to the Maine Dept. of Environmental Protection at the appropriate regional office listed below. The DEP will send a copy to the Town Office as evidence of the DEP's receipt of notification. No further authorization by DEP will be issued after receipt of notice. Permits are valid for two years. Work carried out in violation of any standard is subject to enforcement action.

AUGUSTA DEP  
STATE HOUSE STATION 17  
AUGUSTA, ME 04333-0017  
(207)287-2111

PORTLAND DEP  
312 CANCO ROAD  
PORTLAND, ME 04103  
(207)822-6300

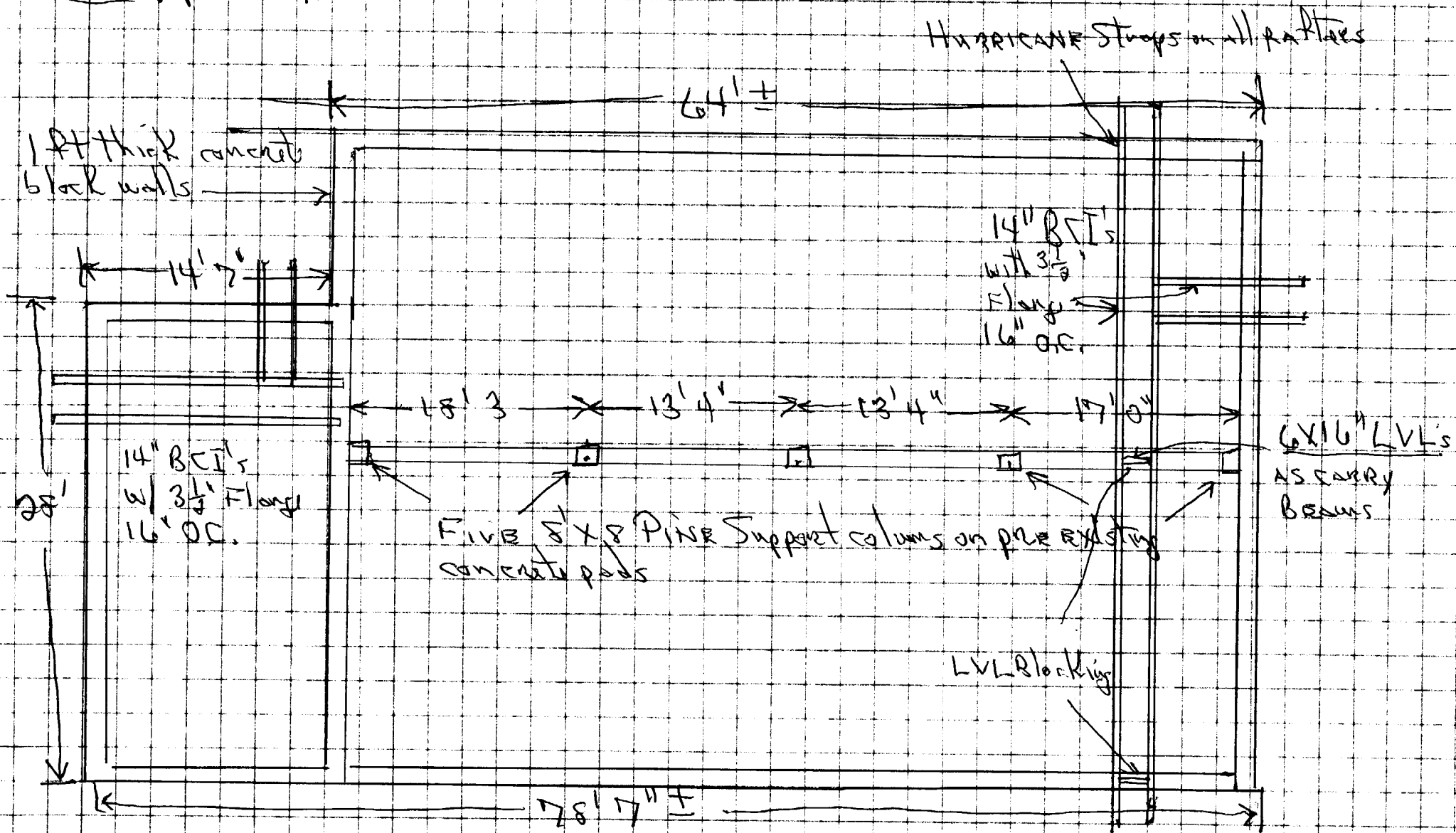
BANGOR DEP  
106 HOGAN ROAD  
BANGOR, ME 04401  
(207)941-4570

PRESQUE ISLE DEP  
1235 CENTRAL DRIVE  
PRESQUE ISLE, ME 04769  
(207)764-0477

OFFICE USE ONLY	Ck.#	Date	Staff	Staff	After Photos
PBR #	FP		Acc. Date	Def. Date	

# Existing Building Lot # 5 Diamond Cove (Birds Eye View)

Scale 1/8" = 1'-0"



All existing walls are constructed of 12 inch concrete block on 15" thick concrete foundation walls.

Existing Building Lot # 5 Diamond Cove (RWS View)

Scale: 1/4" = 1'-0"

Rafter 14" BTIS with 3 1/2" Hange 16" O.G.

Shathing 5/8" Plywood

18' 8" Span

Double 2x8 plate (New)

Steel plate  
steel  
brackets

6" x 16" LUF (New)

8x8 Pine Support Columns (New)

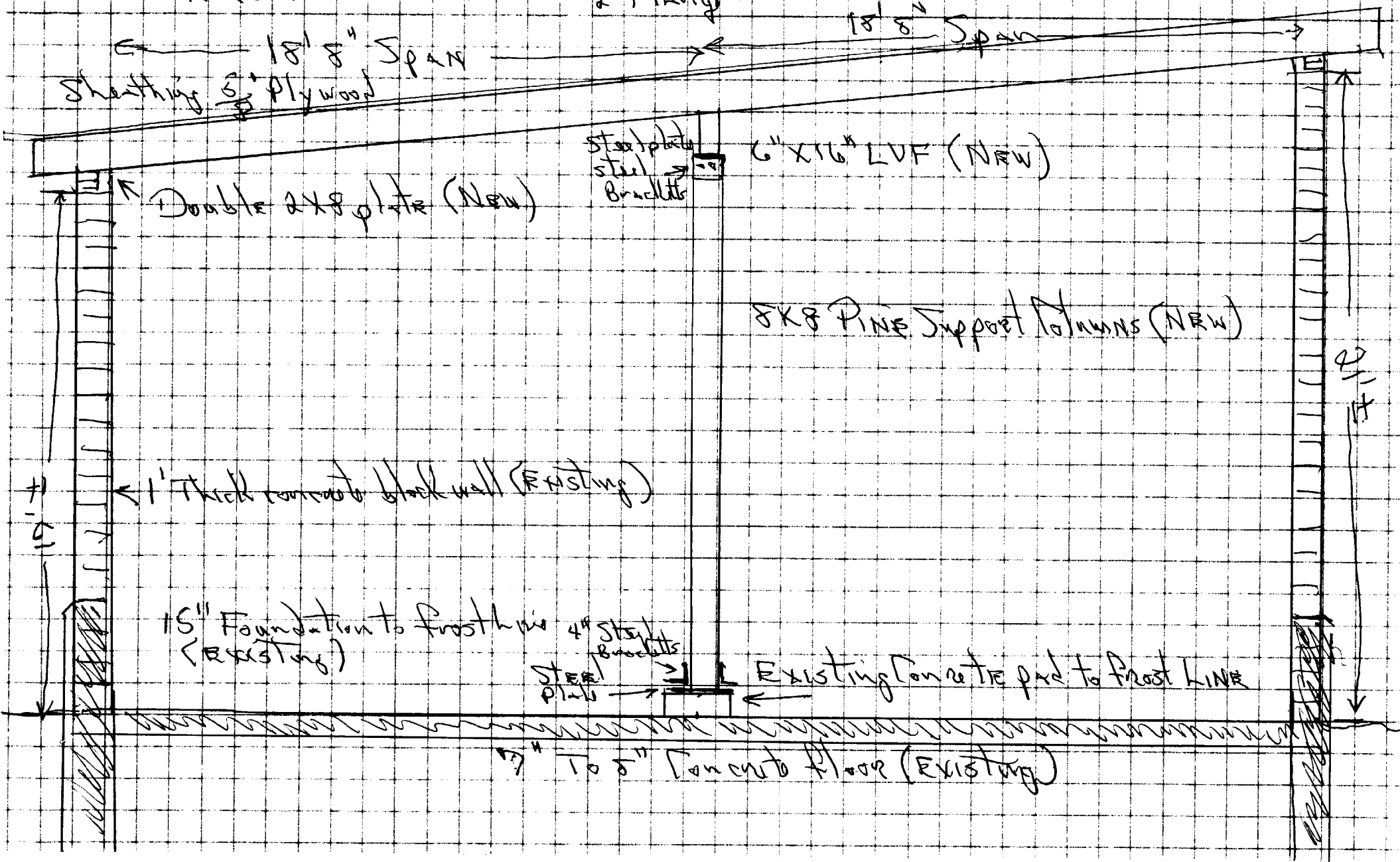
1" Thick concrete block wall (Existing)

15" Foundation to frost line (Existing)

Steel plate

Existing concrete pad to frost line

4" to 5" Concrete floor (Existing)



BOISE CASCADE - BC CALC™ 2001a DESIGN REPORT - US

Tuesday, June 11, 2002 13:25



Single - 5 1/4" x 16" V-L DF 3080

Job Name - FITCH  
 Address -  
 City, State, Zip - GREAT DIAMOND ISLAND, ME  
 Code Reports - ICBO 5663, NER 442

File Name: Fitch2.bcc  
 Customer -  
 Specifier -  
 Designer - WOOD STRUCTURES, INC.  
 Company - WOOD STRUCTURES, INC.  
 Misc. -

ROOF BEAM



7182 lbs LL  
3614 lbs D

7182 lbs LL  
3614 lbs DL

Total Horizontal Length - 18-00-00

General Data

Version: US Imperial  
 Member Type: - Roof Beam  
 Number of Spans: - 1  
 Left Cantilever: - No  
 Right Cantilever: - No  
 Slope: 0/12  
 Tributary: 19-00-00  
 Repetitive: n/a  
 Construction Type: n/a  
 Live Load: 42 PSF  
 Dead Load: 20 PSF  
 Part Load: 0 PSF  
 Duration: 115

Disclosure

The completeness and accuracy of the input must be verified by anyone who would rely on the output as evidence of suitability for a particular application. The output above is based upon building code-accepted design properties and analysis methods. Installation of Boise Cascade engineered wood products must be in accordance with the current Installation Guide and the applicable building codes. To obtain an Installation Guide or if you have any questions, please call (800)232-0788 before beginning product installation.

Load Summary

ID	Description	Load Type	Ref.	Start	End	Live	Dead	Trib.	Dur.
S	Standard	Unf.Area Load	Left	00-00-00	18-00-00	42 PSF	20 PSF	19-00-00	115

Controls Summary

Control Type	Value	% Allowable	Duration	Loadcase	Span Location
Moment	48583 ft-lbs	75.9%	@ 115%	2	1 - Internal
End Shear	9197 lbs	50.1%	@ 115%	2	1 - Left
Total Deflection	L/273 (0.791")	65.9%		2	1
Live Deflection	L/410 (0.526")	58.4%		2	1
Max. Defl.	0.791" (Limit: 1")	79.1%		2	1
Span/Depth	13.5				1

NOTES:

- Design meets Code minimum (L/180) Total load deflection criteria.
- Design meets Code minimum (L/240) Live load deflection criteria.
- Design meets arbitrary (1") Maximum load deflection criteria.
- Minimum bearing length for B0 is 2-1/4".
- Minimum bearing length for B1 is 2-1/4".
- Member Slope = 0, consider drainage.

**BOISE CASCADE - BC CALC™ 2001a DESIGN REPORT - US**

Tuesday, June 11, 2002 13:17

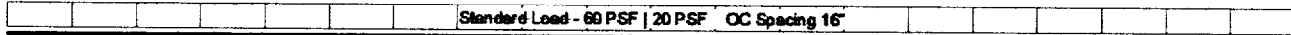


**Single - 14" BCI 900s**

Job Name - FITCH  
 Address -  
 City, State, Zip - PORTLAND, ME  
 Code Reports - NER 594, ICBO 5208

File Name: Fitch.bcc  
 Customer -  
 Specifier -  
 Designer - WOOD STRUCTURES, INC.  
 Company - WOOD STRUCTURES, INC.  
 Misc. -

RAFTER



720 lbs L  
 243 lbs DL

720 lbs L  
 243 lbs DL

Total Horizontal Length - 18-00-00

**General Data**

Version: US Imperial  
 Member Type: - Rafter  
 Number of Spans: - 1  
 Left Cantilever: - No  
 Right Cantilever: - No  
 Slope: 2/12  
 OC Spacing: 16"  
 Repetitive: Yes  
 Construction Type: n/a  
 Live Load: 60 PSF  
 Dead Load: 20 PSF  
 Part Load: 0 PSF  
 Duration: 115

**Disclosure**

The completeness and accuracy of the input must be verified by anyone who would rely on the output as evidence of suitability for a particular application. The output above is based upon building code-accepted design properties and analysis methods. Installation of Boise Cascade engineered wood products must be in accordance with the current Installation Guide and the applicable building codes. To obtain an Installation Guide or if you have any questions, please call (800)232-0788 before beginning product installation.

**Load Summary**

ID	Description	Load Type	Ref.	Start	End	Live	Dead	OCS	Dur.
S	Standard	Unf. Area Load	Left	00-00-00	18-00-00	60 PSF	20 PSF	16"	115

**Controls Summary**

Control Type	Value	% Allowable	Duration	Loadcase	Span Location
Moment	4335 ft-lbs	36.3%	@ 115%	2	1 - Internal
End Reaction	963 lbs	57.8%	@ 115%	2	1 - Left
Total Deflection	L/645 (0.339")	27.9%		2	1
Live Deflection	L/863 (0.254")	55.6%		2	1
Max. Defl.	0.339" (Limit: 1")	33.9%		2	1
Span/Depth	15.4				1

**NOTES:**

Design meets Code minimum (L/180) Total load deflection criteria.  
 Design meets User specified (L/480) Live load deflection criteria.  
 Design meets arbitrary (1") Maximum load deflection criteria.  
 Minimum bearing length for B0 is 1-3/4".  
 Minimum bearing length for B1 is 1-3/4".



Project No.: 1-000152.00

Type of Survey: Limited Ex. Cond.

Invoice # 1-000152.00-1

Job Name: Lot 5 Diamond Cove

Date: June 6, 2002

Location: Great Diamond Island

Page No. 1 of 1

Location: Portland, Maine

Sandy Fitch  
Lot 5, West Shore Drive  
Great Diamond Island  
Portland, Maine

Professional Surveying Engineering Services performed from 06/03/02 – 06/06/02, as per our professional service contract dated: May 31, 2002.

~~LABOR~~

Professional Land Surveying Services

~~Expenses:~~

~~Total Current Charges~~

~~Due Upon Receipt~~

PER PHONE CALL on  
6/12/02, with  
TIM PATCH of SGC,  
"BASED ON FIRMAR,  
COMMUNITY PANEL  
# 2300510009B, eff date  
July 17, 1986, panel 9 of 17,  
the building is in zone C,  
which is defined as  
an area of minimal  
flooding."  
letter from  
SGC furnished  
upon request.

12 Westbrook Common, 2nd Floor • Westbrook, Maine • 04092

Phone: 207-856-0006 • Fax: 207-856-0007 • E-Mail: sgc@sgcinc.net



**BOISE CASCADE - BC CALC™ 2001a DESIGN REPORT - US**

Wednesday, July 03, 2002 12:14



**Single - 14" BCI 900s**

Job Name -  
 Address - LOT 5 DIAMOND COVE  
 City, State, Zip - PORTLAND, ME  
 Code Reports - NER 594, ICBO 5208

File Name: - HILLSIDE LBR  
 Customer Specifier -  
 Designer - MICHELLE  
 Company: - WSI  
 Misc: -

Untitled



Standard Load - 50 PSF | 20 PSF OC Spacing 16"

2-1/2"	2-1/2"
B0	B1
667 lbs L	667 lbs LL
268 lbs D	268 lbs DL

Total Horizontal Length - 20-00-00

**General Data**

Version: US Imperial  
 Member Type: - Rafter  
 Number of Spans - 1  
 Left Cantilever - No  
 Right Cantilever - No  
 Slope 1/12  
 OC Spacing 16"  
 Repetitive Yes  
 Construction Type n/a  
 Live Load 50 PSF  
 Dead Load 20 PSF  
 Part Load 0 PSF  
 Duration 115

**Load Summary**

ID	Description	Load Type	Ref.	Start	End	Live	Dead	OCS	Dur.
S	Standard	Unf.Area Load	Left	00-00-00	20-00-00	50 PSF	20 PSF	16"	115

**Controls Summary**

Control Type	Value	% Allowable	Duration	Loadcase	Span Location
Moment	4871 ft-lbs	39.1%	@ 115%	2	1 - Internal
End Reaction	934 lbs	56.0%	@ 115%	2	1 - Left
Total Deflection	L/560 (0.43")	32.1%		2	1
Live Deflection	L/784 (0.307")	30.6%		2	1
Max. Defl.	0.43" (Limit: 1")	43.0%		2	1
Span/Depth	17.1				1

**Bearing Supports**

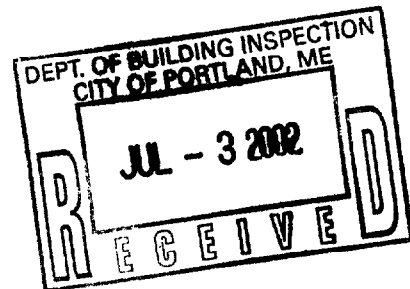
Name	Type	Dim. (L x W)	Value	% Allowed	Case	Material
B0	Wall/Plate	2-1/2" x 3-1/2"	934 lbs	25.1%	2	Spruce-Pine-Fir
B1	Wall/Plate	2-1/2" x 3-1/2"	934 lbs	25.1%	2	Spruce-Pine-Fir

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**NOTES:**

Design meets Code minimum (L/180) Total load deflection criteria.  
 Design meets Code minimum (L/240) Live load deflection criteria.  
 Design meets arbitrary (1") Maximum load deflection criteria.



**BOISE CASCADE - BC CALC™ 2001a DESIGN REPORT - US**

Tuesday, July 02, 2002 16:36



**Single - 5 1/4" x 16" V-L DF 3080**

Job Name -  
Address -

City, State, Zip -  
Code Reports -

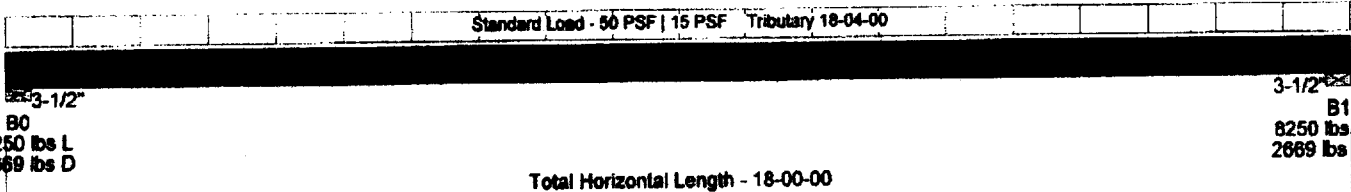
ICBO 5663, NER 442

File Name:

Untitled

Customer -  
Specifier -  
Designer - MICHELLE  
Company: - WSI  
Misc: -

12' 0"



**General Data**

Version: US Imperial  
  
Member Type: - Roof Beam  
Number of Spans: - 1  
Left Cantilever: - No  
Right Cantilever: - No  
  
Slope: 0/12  
Tributary: 18-04-00  
Repetitive: n/a  
Construction Type: n/a  
  
Live Load: 50 PSF  
Dead Load: 15 PSF  
Part Load: 0 PSF  
Duration: 115

**Load Summary**

ID	Description	Load Type	Ref.	Start	End	Live	Dead	Trib.	Dur.
S	Standard	Unf.Area Load	Left	00-00-00	18-00-00	50 PSF	15 PSF	18-04-00	115

**Controls Summary**

Control Type	Value	% Allowable	Duration	Loadcase	Span Location
Moment	49137 ft-lbs	76.7%	@ 115%	2	1 - Internal
End Shear	9302 lbs	50.7%	@ 115%	2	1 - Left
Total Deflection	L/270 (0.8")	66.6%		2	1
Live Deflection	L/357 (0.604")	67.1%		2	1
Max. Defl.	0.8" (Limit: 1")	80.0%		2	1
Span/Depth	13.5				1

**Bearing Supports**

Name	Type	Dim. (L x W)	Value	% Allowed	Case	Material
B0	Wall/Plate	3-1/2" x 5-1/4"	10919 lbs	139.8%	2	Spruce-Pine-Fir
B1	Wall/Plate	3-1/2" x 5-1/4"	10919 lbs	139.8%	2	Spruce-Pine-Fir

**CAUTIONS:**

Bearing B0 cannot support a load of 10919 lbs.  
Bearing B1 cannot support a load of 10919 lbs.

**NOTES:**

Design meets Code minimum (L/180) Total load deflection criteria.  
Design meets Code minimum (L/240) Live load deflection criteria.  
Design meets arbitrary (1") Maximum load deflection criteria.  
Member Slope = 0, consider drainage.



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Post-It® Fax Note	7671	Date	7/3	# of pages	2
To	TAMMY MUNSON	From	Michelle		
Co./Dept.	City of Portland	By	WSI		
Phone #		Phone #			