City of Portland, Maine – Building or Use Permit Application 389 Congress Street, 04101, Tel: (207) 874-8703, FAX: 874-8716

#98

Location of Construction: Lot 11 Seal Cove Lane Great Diamond Island	Owner: Earl Klien	Phone: 766-438-8870
Owner Address:	Lessee/Buyer's Name: / Phone:	BusinessName:
Contractor Name: Wright - Ryan Construction	Address: 10 Danforth Street Portland	Phone: 773-3625

Permit No: 000355

Permit Issued: APR 2 0

Past Use: Drew Canney 870-4446 vacant	Proposed Use: single family	**COST OF WORK:** $ 3000000	**PERMIT FEE:** $ 1,824.00
		FIRE DEPT. ☐ Approved ☐ Denied Signature:	**INSPECTION:** Use Group: R3 Type: 5B BOCA99 Signature: Hoffses

Zone: IR-1 **CBL:** 083E-A-002

Zoning Approval:

Proposed Project Description:

New single family with foundation work being done first. There willlbe not charge for the house plans to be dropped off with Marge Lane

~~Revised~~ plans for the dwelling received 19 May/2K and approved

Fee for project paid

PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.)

Action: Approved ☐ Approved with Conditions: ☐ Denied ☐

Signature: Date:

Special Zone or Reviews:
- ☐ Shoreland
- ☐ Wetland
- ☐ Flood Zone
- ☐ Subdivision
- ☐ Site Plan maj ☐minor ☐mm ☐

Permit Taken By: K | Date Applied For: April 14 2000.K

1. This permit application does not preclude the Applicant(s) from meeting applicable State and Federal rules.
2. Building permits do not include plumbing, septic or electrical work.
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..

Zoning Appeal
- ☐ Variance
- ☐ Miscellaneous
- ☐ Conditional Use
- ☐ Interpretation
- ☐ Approved
- ☐ Denied

Historic Preservation
- ☐ Not in District or Landmark
- ☐ Does Not Require Review
- ☐ Requires Review

Action:
- ☐ Appoved
- ☐ Approved with Conditions
- ☐ Denied

Date: ____________

PERMIT ISSUED WITH REQUIREMENTS

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 provisions of the code(s) applicable to such permit

April 14 2000

SIGNATURE OF APPLICANT ADDRESS: DATE: PHONE:

RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE PHONE:

PERMIT ISSUED WITH REQUIREMENTS

CEO DISTRICT 3

White–Permit Desk Green–Assessor's Canary–D.P.W. Pink–Public File Ivory Card–Inspector

COMMENTS

5-9-00 Setback Inspection. Strung rear Line - measurement from Right corner footing 80+ ft., Left corner 85+, both taken to Top of banking - seaweed was still several feet out on beach. Front setback to Pins 35+ at Left corner. Left side well over requirement – * Right side form not set at corner closest to 30' drainage easment so check on next inspection. JB

7/12/00 Contractor will provide a survey "as built" to verify condition * as noted above.

Framing OK, Plumbing OK, Egress window too small. GR

8/9/00 Window at grade OK, Septic OK. GR

8-25-00 Final C.O. – See attachment of fax copy for details JB

9/12/00 OK for C of Occupancy we get new plans. GR

CBL = 083E-A-002 PERMIT # 000355

Inspection Record

Type	Date
Foundation:	
Framing:	
Plumbing:	
Final:	
Other:	

8/25/10 Lot 22 #98 Seal Cove Ln. GDI

Electrical:

GFI Master shower light -

will check: Electrical wire From HW Heater Thru wall
Exposed Romax in Utility Room
Verify light switches for exterior fixtures

Furnace: 0 clearance spec on Flu outlet Thimble
Provide metal Bestos or approved material
for ~~Bestos~~ non combustible covering installed
Per code NFPA 31

Building: Guardrails 42" - handrails 30-38 graspable
unless incorporated in guard system can be 42"

Nosing min. 3/4" max 1 1/4 10" Net tread
bottom 1st step 8" (too high)
bottom 1st step at upper level 8" (too High)
Rails & finish on Rear Deck.

will check Fireplace combustible clearance NFPA 211
Chimney height

Site inspection: Dalucca Hoffman
See requirement sheet

* Land Survey Letter needs to be submitted
* Auto Cad Digital format of Plans

DeLUCA-HOFFMAN ASSOCIATES, INC.
CONSULTING ENGINEERS

778 MAIN STREET
SUITE 8
SOUTH PORTLAND, MAINE 04106
TEL: 207 775 1121
FAX 207 879 0896

- ROADWAY DESIGN
- ENVIRONMENTAL ENGINEERING
- TRAFFIC STUDIES AND MANAGEMENT
- PERMITTING
- AIRPORT ENGINEERING
- SITE PLANNING
- CONSTRUCTION ADMINISTRATION

MEMORANDUM

TO: Code Enforcement
Kandi Talbot, Planner

FROM: Chris Earle, Construction Monitor
Reviewed by Steve Bushey, P.E., Acting Development Review Coordinator

DATE: September 12, 2000

RE: Certificate of Occupancy – 98 Seal Cove

On September 12, 2000, the site was reviewed for compliance with the conditions of approval.

It is our opinion that a **permanent certificate of occupancy could be issued**, assuming neither Code Enforcement nor Public Works has any outstanding issues.

THIS IS NOT A PERMIT/CONSTRUCTION CANNOT COMMENCE UNTIL THE PERMIT IS ISSUED

Minor/Minor Site Review, Building or Use Permit Pre-Application

Detached Single Family Dwelling

In the interest of processing your application in the quickest possible manner, please complete the Information below for a Building or Use Permit.

NOTEIf 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: ~~50~~ 56 Cove lane Great diamond Island Maine.		
Total Square Footage of Proposed Structure 3217 (Lot 22)	Square Footage of Lot 5779	
Tax Assessor's Chart, Block & Lot Number Chart# 83 Block# E Lot# A-22	Owner: Mr and Mrs klein	Telephone#: 7604388870
Lessee/Buyer's Name (If Applicable)	Owner's/Purchaser/Lessee Address:	Cost Of Work: $300,000.00 Fee: $1824
Proposed Project Description:(Please be as specific as possible) Wood frame, single story, cedar shingle siding, Asphalt roofing, 2 bedrm, on posts, pinned to ledge (DEW)		
Contractor's Name, Address & Telephone Wright-Ryan Construction, 10 Danforth st Portland 773 3625		Rec'd By: Phase II

Separate permits are required for Internal & External Plumbing, HVAC and Electrical installation.

•All construction must be conducted in compliance with the 1996 B.O.C.A. Building Code as amended by Section 6-Art II.

•All plumbing must be conducted in compliance with the State of Maine Plumbing Code.

•All Electrical Installation must comply with the 1996 National Electrical Code as amended by Section 6-Art III.

•HVAC(Heating, Ventilation and Air Conditioning) installation must comply with the 1993 BOCA Mechanical Code.

You must Include the following with you application:

1) A Copy of Your Deed or Purchase and Sale Agreement
2) A Copy of your Construction Contract, if available
3) A Plot Plan (Sample Attached)

Site 300
1- 2124-

A "minor/minor" site plan review is required prior to permit issuance. The Site plan must be prepared and sealed by a registered land surveyor **(2 copies are required)**. A complete plot plan (Site Plan)includes:

- The shape and dimension of the lot, all existing buildings (if any), the proposed structure and the distance from the actual property lines. Structures include decks porches, a bow windows cantilever sections and roof overhangs, as well as, sheds, pools, garages and any other accessory structures.
- Scale and North arrow; Zoning District & Setbacks
- First Floor sill elevation (based on mean sea level datum);
- Location and dimensions of parking areas and driveways;
- Location and size of both existing utilities in the street and the proposed utilities serving the building;
- Location of areas on the site that will be used to dispose of surface water.
- Existing and proposed grade contours

Drew Canning

4) Building Plans (Sample Attached)

APR 1 4 2000

RECEIVED

A complete set of construction drawings showing all of the following elements of construction:

- Cross Sections w/Framing details (including porches, decks w/ railings, and accessory structures)
- Floor Plans & Elevations
- Window and door schedules
- Foundation plans with required drainage and dampproofing
- Electrical and plumbing layout. Mechanical drawings for any specialized equipment such as furnaces, chimneys, gas equipment, HVAC equipment (air handling) or other types of work that may require special review must be included.

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/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:** 4-15-00

Site Review Fee: $300.00/Building Permit Fee: $30.00 for the 1st $1000.cost plus $6.00 per $1,000.00 construction cost thereafter.

3 more site Plans -
2 subsurface -

6/99

DEPARTMENT OF ENVIRONMENTAL PROTECTION (DEP)

PERMIT BY RULE NOTIFICATION FORM

(For use with DEP Regulation, Chapter 305)

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

Name of Applicant:	Wright-Ryan Const	**Name of Owner:**	Mr + Mrs Klein
Mailing Address:	10 Danforth st Portland	**Town/City:**	
State: Maine	**Zip Code:** 04101	**Daytime Telephone No: (Include area code)**	773 3625

Name of Wetland, Water Body or Stream: Casco bay

Detailed Directions to Site: From Diamond cove pier take wood-road to spring cove lane, Take left on spring cove, lot #22 is on the corners of spring cove, dare and seal cove rd.

Town/City:	Portland	**Map #:**		**Lot #:**	22	**County:**	Cumberland

Description of Project: New 3000 sq foot wood frame single family residence

Part of a larger project? Yes ☐ No ☒

(**CHECK ONE**) This project: does ☐ does not ☒ involve work below mean low water.

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.

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

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:	[signature]	**Date:**	4/12/00

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	PORTLAND DEP	BANGOR DEP	PRESQUE ISLE DEP
STATE HOUSE STATION 17	312 CANCO ROAD	106 HOGAN ROAD	1235 CENTRAL DRIVE
AUGUSTA, ME 04333-0017	PORTLAND, ME 04103	BANGOR, ME 04401	PRESQUE ISLE, ME 04769
(207)287-2111	(207)822-6300	(207)941-4570	(207)764-0477

OFFICE USE ONLY	Ck.#	Date	Staff MSC	Staff	After Photos
PBR #	FP		Acc. Date 4/12/00	Def. Date	

DEPLW-27-B99

STATE OF MAINE
DEPARTMENT OF ENVIRONMENTAL PROTECTION
STATE HOUSE STATION 17 AUGUSTA, MAINE 04333

DEPARTMENT ORDER

083E-A-022

IN THE MATTER OF

EARL KLEIN	) SITE LOCATION OF DEVELOPMENT LAW
Portland, Cumberland County	)
DIAMOND COVE - LOT 22	) MODIFICATION
L-13160-L3-N-M (ATF approval)	) FINDINGS OF FACT AND ORDER

Pursuant to the provisions of 38 M.R.S.A. Sections 481 et seq., the Department of Environmental Protection has considered the application of EARL KLEIN with the supportive data, agency review comments, and other related materials on file and FINDS THE FOLLOWING FACTS:

1. In Board Order #L-13160-L3-G-N, dated June 25, 1991, the Board approved the development of Diamond Cove Phase II, a 39 lot residential subdivision on 102.6 acres of land. Department Order #L-13160-L3-H-T, dated January 31, 1994, approved the transfer of the permit to McKinley Partners L. P. The development is located on Great Diamond Island in Casco Bay, which is part of the City of Portland.

2. The applicant has purchased lot 22 of the subdivision, and has begun constructing a single-family residence on the lot. Because of poor bearing conditions in the soil, the building was moved to the east to achieve uniform bearing on ledge. As a result, the house is located a maximum of approximately eight feet outside the building window approved in Board Order #L-13160-L3-G-M, as shown on a sketch entitled "Diamond Cove Lot 22" and dated May 8, 2000. This deviation occurs at the sideline of the lot. The structure does not encroach into the area between the building window and the ocean.

3. No issues are affected by this change in the building location.

4. Based on its review of the application, the Department finds the requested modification to be in accordance with all relevant Departmental standards. All other findings of fact, conclusions and conditions remain as approved in Board Order #L-13160-L3-G-M, and subsequent orders.

BASED on the above findings of fact, and subject to the conditions listed below, the Department makes the following conclusions pursuant to 38 M.R.S.A. Sections 481 et seq.:

A. The applicant has provided adequate evidence of financial capacity and technical ability to develop the project in a manner consistent with state environmental standards.

B. The applicant has made adequate provision for fitting the development harmoniously into the existing natural environment and the development will not adversely affect existing uses, scenic character, air quality, water quality or other natural resources in the municipality or in neighboring municipalities.

C. The proposed development will be built on soil types which are suitable to the nature of the undertaking and will not cause unreasonable erosion of soil or sediment nor inhibit the natural transfer of soil.

D. The proposed development meets the standards for storm water management in Section 420-D and the standard for erosion and sedimentation control in Section 420-C.

E. The proposed development will not pose an unreasonable risk that a discharge to a significant groundwater aquifer will occur.

F. The applicant has made adequate provision of utilities, including water supplies, sewerage facilities, solid waste disposal and roadways required for the development and the development will not have an unreasonable adverse effect on the existing or proposed utilities and roadways in the municipality or area served by those services.

G. The activity will not unreasonably cause or increase the flooding of the alteration area or adjacent properties nor create an unreasonable flood hazard to any structure.

THEREFORE, the Department APPROVES the after-the-fact application of EARL KLEIN to build his single-family outside the approved building window as described in Finding 2, SUBJECT TO THE FOLLOWING CONDITIONS and all applicable standards and regulations:

1. The Standard Conditions of Approval, a copy attached.

2. In addition to any specific erosion control measures described in this or previous orders, the applicant shall take all necessary actions to ensure that his activities or those of his agents do not result in noticeable erosion of soils or fugitive dust emissions on the site during the construction and operation of the project covered by this approval.

3. All other Findings of Fact, Conclusions and Conditions remain as approved in Board Order #L-13160-L3-G-N, and subsequent orders, and are incorporated herein.

DONE AND DATED AT AUGUSTA, MAINE, THIS 10 DAY OF August, 2000.

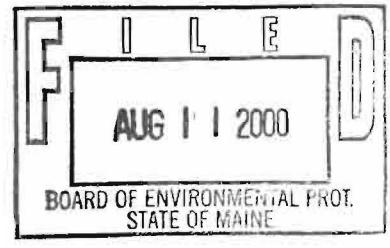
DEPARTMENT OF ENVIRONMENTAL PROTECTION

By: _____
MARTHA G. KIRKPATRICK, COMMISSIONER

PLEASE NOTE THE ATTACHED SHEET FOR GUIDANCE ON APPEAL PROCEDURES...

Date of initial receipt of application 7/26/00
Date of application acceptance 7/31/00

Date filed with Board of Environmental Protection
MR/L13160NM



STANDARD CONDITIONS

STRICT CONFORMANCE WITH THE STANDARD AND SPECIAL CONDITIONS OF THIS APPROVAL IS NECESSARY FOR THE PROJECT TO MEET THE STATUTORY CRITERIA FOR APPROVAL.

1. This approval is dependent upon and limited to the proposals and plans contained in the application and supporting documents submitted and affirmed to by the applicant. Any variation from the plans, proposals and supporting documents is subject to the review and approval of the Board prior to implementation. Further subdivision of proposed lots by the applicant or future owners is specifically prohibited, without prior approval by the Board of Environmental Protection, and the applicant shall include deed restrictions to this effect.

2. The applicant shall secure and comply with all applicable Federal, State and local licenses, permits, authorizations, conditions, agreements, and orders, prior to or during construction and operation as appropriate.

3. The applicant shall submit all reports and information requested by the Board or Department demonstrating that the applicant has complied or will comply with all conditions of this approval. All preconstruction terms and conditions must be met before construction begins.

4. Advertising relating to matters included in this application shall refer to this approval only if it notes that the approval has been granted WITH CONDITIONS, and indicates where copies of those conditions may be obtained.

5. Unless otherwise provided in this approval, the applicant shall not sell, lease, assign or otherwise transfer the development or any portion thereof without prior written approval of the Board where the purpose or consequence of the transfer is to transfer any of the obligations of the developer as incorporated in this approval. Such approval shall be granted only if the applicant or transferee demonstrates to the Board that the transferee has the technical capacity and financial ability to comply with conditions of this approval and the proposals and plans contained in the application and supporting documents submitted by the applicant.

6. If the construction or operation of the activity is not begun within two years, this approval shall lapse and the applicant shall reapply to the Board for a new approval. The applicant may not begin construction or operation of the development until a new approval is granted. Reapplications for approval shall state the reasons why the development was not begun within two years from the granting of the initial approval and the reasons why the applicant will be able to begin the activity within two years from the granting of a new approval, if granted. Reapplications for approval may include information submitted in the initial application by reference.

7. If the approved development is not completed within five years from the date of the granting of approval, the Board may reexamine its approval and impose additional terms or conditions or prescribe other necessary corrective action to respond to significant changes in circumstances which may have occurred during the five-year period.

8. A copy of this approval must be included in or attached to all contract bid specifications for the development.

9. Work done by a contractor pursuant to this approval shall not begin before the contractor has been shown by the developer a copy of this approval.

(2/81)/Revised November 1, 1979

Applicant: Wright-Ryan.   Date: 4/19/00

Address: Lot #22 Seal Cove Lane   C-B-L: 83E-A-22

CHECK-LIST AGAINST ZONING ORDINANCE

Date - NEW

5/26/00 SAME plans for 2nd permit. Shows house construction PLANS - OK SAME conditions still apply

Zone Location - IR-1

Interior or corner lot -

Proposed Use/Work - foundation only for New Single fam Dwelling

Sewage Disposal - private

Lot Street Frontage - 100' min - shows 120' along Seal Cove Lane

Front Yard - 30' req 30'+ shown

Rear Yard - 30' req - 75'+ shown

Side Yard - 20' req - 30'+ shown

Projections - rear deck - side decks - front entryways

Width of Lot - 100' min - 120'+ shown

Height - 35' max - 27' to ridge - ok

Lot Area - 40,000#, 57,493# HAS WATER subdivison approved by Planning Board 12/1998

Lot Coverage/ Impervious Surface - 20% max <ok

Area per Family - 40,000#

Off-street Parking - 2 req - 2 shown

Loading Bays - N/A

Site Plan - minor/minor # 19990173

Shoreland Zoning/ Stream Protection - yes within shows over 75' from HWM ok

see plans doubly check

Flood Plains - MAP 9 - Zone C flood PLAIN is less than 40'

*shall meet The Attached guidelines on Shoreland -

Zoning Division
Marge Schmuckal
Zoning Administrator

Department of Urban Development
Joseph E. Gray, Jr.
Director

Shall meet Shoreland These req. Zoning

CITY OF PORTLAND

SHORELAND ZONING REQUIREMENTS

Shoreland zoning requirements apply to all designated shoreland zoning areas shown on the Official City of Portland Zoning Maps. Generally speaking it is an area enclosed within 250 feet of the High Water Mark.

WITHIN 75 FEET OF NORMAL HIGH WATER LINE:

- No new building construction allowed.

- There shall be no newly cleared openings.

- A well-distributed stand of trees and other vegetation, including existing ground cover, shall be maintained.

- Clearing of vegetation for development is NOT allowed, except to remove safety hazards.

- No newly cleared opening greater than 250 sq. ft. in the forest canopy as measured from the outer limits of the tree crown is allowable. However a footpath not to exceed 10 feet in width as measured between tree trunks is permitted provided that a clear line of sight to the water through the buffer strip is NOT created (to be "meandering" in nature).

- There shall be no accessory structures constructed, such as piers, docks, wharves, bridges, stairways, parking areas, and retaining walls without permits, review, and approvals.

BEYOND THE 75 FOOT SETBACK, STILL WITHIN SHORELAND ZONE:

- There shall be permitted on any lot in any 10 year period, selective cutting of not more than 40% of the volume of trees 4" or more in diameter, measured 4.5 feet above ground level. Tree removal in conjunction with the development of permitted uses shall be included in the 40% calculations. Pruning of tree branches on the bottom 1/3 of the tree is permitted.

- In no event shall cleared openings for development, including but not limited to, principal and accessory structures, driveways, and sewage disposal areas, exceed in the aggregate, 25% of the lot area or 10,000 sq. ft. which ever is greater.

BUILDING PERMIT REPORT

DATE: 16 APRIL 2000 ADDRESS: Lot #22 Seal Cove Lane G.D.I CBL: 083 E-A-022

REASON FOR PERMIT: To Construct a Single Family dwelling

BUILDING OWNER: MR. & MRS. Earl Klein

PERMIT APPLICANT: _____ /CONTRACTOR Wright-Ryan Const.

USE GROUP: R-3 CONSTRUCTION TYPE: 5-B CONSTRUCTION COST: $300,000.00 PERMIT FEES: $1,824.00

The City's Adopted Building Code (The BOCA National Building code/1999 with City Amendments)
The City's Adopted Mechanical Code (The BOCA National Mechanical Code/1993)

CONDITION(S) OF APPROVAL

This permit is being issued with the understanding that the following conditions are met: *1, *2, *4, *7, *9, *11, *13, *14, *15, *19, *26, *32, *30, *32, *33, *34, *36

*1. This permit does not excuse the applicant from meeting applicable State and Federal rules and laws.

*2. Before concrete for foundation is placed, approvals from the Development Review Coordinator and Inspection Services must be obtained. (A 24 hour notice is required prior to inspection) **"ALL LOT LINES SHALL BE CLEARLY MARKED BEFORE CALLING."**

3. Foundation drain shall be placed around the perimeter of a foundation that consists of gravel or crushed stone containing not more than 10 percent material that passes through a No. 4 sieve. The drain shall extend a minimum of 12 inches beyond the outside edge of the footing. The thickness shall be such that the bottom of the drain is not higher than the bottom of the base under the floor, and that the top of the drain is not less than 6 inches above the top of the footing. The top of the drain shall be covered with an approved filter membrane material. Where a drain tile or perforated pipe is used, the invert of the pipe or tile shall not be higher than the floor elevation. The top of joints or top of perforations shall be protected with an approved filter membrane material. The pipe or tile shall be placed on not less than 2" of gravel or crushed stone, and shall be covered with not less than 6" of the same material. Section 1813.5.2

*4. Foundations anchors shall be a minimum of ½" in diameter, 7" into the foundation wall, minimum of 12" from corners of foundation and a maximum 6' O.C. between bolts. Section 2305.17

5. Waterproofing and dampproofing shall be done in accordance with Section 1813.0 of the building code.

6. Precaution must be taken to protect concrete from freezing. Section 1908.0

*7. It is strongly recommended that a registered land surveyor check all foundation forms before concrete is placed. This is done to verify that the proper setbacks are maintained.

8. Private garages located beneath habitable rooms in occupancies in Use Group R-1, R-2, R-3 or I-1 shall be separated from adjacent interior spaces by fire partitions and floor/ceiling assembly which are constructed with not less than 1-hour fire resisting rating. Private garages attached side-by-side to rooms in the above occupancies shall be completely separated from the interior spaces and the attic area by means of ½ inch gypsum board or the equivalent applied to the garage side. (Chapter 4, Section 407.0 of the BOCA/1999)

*9. All chimneys and vents shall be installed and maintained as per Chapter 12 of the City's Mechanical Code. (The BOCA National Mechanical Code/1993). Chapter 12 & NFPA 211

10. Sound transmission control in residential building shall be done in accordance with Chapter 12. Section 1214.0 of the City's Building Code.

*11. Guardrails & Handrails: A guardrail system is a system of building components located near the open sides of elevated walking surfaces for the purpose of minimizing the possibility of an accidental fall from the walking surface to the lower level. Minimum height all Use Groups 42". In occupancies in Use Group A, B,H-4, I-1, I-2, M, R, public garages and open parking structures, open guards shall have balusters or be of solid material such that a sphere with a diameter of 4" cannot pass through any opening. Guards shall not have an ornamental pattern that would provide a ladder effect. Handrails shall be a minimum of 34" but not more than 38". Exception: Handrails that form part of a guard shall have a height not less than 36 inches (914 mm) and not more than 42 inches (1067 mm). Handrail grip size shall have a circular cross section with an outside diameter of at least 1 ¼" and not greater than 2". (Sections 1021 & 1022.0). Handrails shall be on both sides of stairway. (Section 1014.7)

12. Headroom in habitable space is a minimum of 7'6". (Section 1204.0)

*13. Stair construction in **Use Group R-3 & R-4 is a minimum of 10" tread and 7 ¾" maximum rise.** All other Use Group minimum 11" tread, 7" maximum rise. (Section 1014.0)

*14. The minimum headroom in all parts of a stairway shall not be less than 80 inches. (6'8") 1014.4

*15. Every sleeping room below the fourth story in buildings of Use Groups R and I-1 shall have at least one operable window or exterior door approved for emergency egress or rescue. The units must be operable from the inside without the use of special knowledge or separate tools. Where windows are provided as means of egress or rescue they shall have a sill height not more than 44 inches (1118mm) above the floor. All egress or rescue windows from sleeping rooms shall have a minimum net clear opening height dimension of 24 inches (610mm). The minimum net clear opening width dimension shall be 20 inches (508)mm, and a minimum net clear opening of 5.7 sq. ft. (Section 1010.4)

16. Each apartment shall have access to two (2) separate, remote and approved means of egress. A single exit is acceptable when it exits directly from the apartment to the building exterior with no communications to other apartment units. (Section 1010.1)

17. All vertical openings shall be enclosed with construction having a fire rating of at least one (1) hour, including fire doors with self closure's. (Over 3 stories in height requirements for fire rating is two (2) hours. (Section 710.0)

18. The boiler shall be protected by enclosing with (1) hour fire rated construction including fire doors and ceiling, or by providing automatic extinguishment. (Table 302.1.1)

4/14/00

19. All single and multiple station smoke detectors shall be of an approved type and shall be installed in accordance with the provisions of the City's Building Code Chapter 9, Section 920.3.2 (BOCA National Building Code/1999), and NFPA 101 Chapter 18 & 19. (Smoke detectors shall be installed and maintained at the following locations):
    - **In the immediate vicinity of bedrooms**
    - **In all bedrooms**
    - **In each story within a dwelling unit, including basements**
20. A portable fire extinguisher shall be located as per NFPA #10. They shall bear the label of an approved agency and be of an approved type. (Section 921.0)
21. The Fire Alarm System shall be installed and maintained to NFPA #72 Standard.
22. The Sprinkler System shall be installed and maintained to NFPA #13 Standard.
23. All exit signs, lights and means of egress lighting shall be done in accordance with Chapter 10 Section & Subsections 1023.0 & 1024.0 of the City's Building Code. (The BOCA National Building Code/1999)
24. Section 25 – 135 of the Municipal Code for the City of Portland states, "No person or utility shall be granted a permit to excavate or open any street or sidewalk from the time of November 15 of each year to April 15 of the following year".
25. The builder of a facility to which Section 4594-C of the Maine State Human Rights Act Title 5 MRSA refers, shall obtain a certification from a design professional that the plans commencing construction of the facility, the builder shall submit the certification the Division of Inspection Services.
26. Ventilation and access shall meet the requirements of Chapter 12 Sections 1210.0 and 1211.0 of the City's Building Code. (Crawl spaces & attics).
27. All electrical, plumbing and HVAC permits must be obtained by Master Licensed holders of their trade. **No closing in of walls until all electrical** (min. 72 hours notice) **and plumbing inspections have been done.**
28. All requirements must be met before a final Certificate of Occupancy is issued.
29. All building elements shall meet the fastening schedule as per Table 2305.2 of the City's Building Code (The BOCA National Building Code/1996).
30. Ventilation of spaces within a building shall be done in accordance with the City's Mechanical code (The BOCA National Mechanical Code/1993). (Chapter M-16)
31. Please read and implement the attached Land Use Zoning report requirements.
32. Boring, cutting and notching shall be done in accordance with Sections 2305.3, 2305.3.1, 2305.4.4 and 2305.5.1 of the City's Building Code.
33. Bridging shall comply with Section 2305.16.
34. Glass and glazing shall meet the requirements of Chapter 24 of the building code. (Safety Glazing Section 2406.0)
35. All signage, shall be done in accordance with Section 3102.0 signs of the City's Building Code, (The BOCA National Building Code/1999).
36. This part of the permit is being issued for site work and foundation work. A complete set of structural plans shall be submitted and approved before framing work begins.

P. Samuel Hoffses, Building Inspector
Cc: Lt. McDougall, PFD
Marge Schmuckal, Zoning Administrator

PSH 1/26/00

**This permit is herewith issued, on the basis of plans submitted and conditions placed on these plans, any deviations shall require a separate approval.

*****THIS PERMIT HAS BEEN ISSUED WITH THE UNDERSTANDING THAT ALL THE CONDITIONS OF THE APPROVAL SHALL BE COMPLETED. THEREFORE, BEFORE THE WORK IS COMPLETED A REVISED PLAN OR STATEMENT FROM THE PERMIT HOLDER SHALL BE SUBMITTED TO THIS OFFICE SHOWING OR EXPLAINING THAT THE CONDITIONS HAVE BEEN MET. IF THIS REQUIREMENT IS NOT RECEIVED YOUR CERTIFICATE OF OCCUPANCY SHALL BE WITHHELD.**

******ALL PLANS THAT REQUIRE A PROFESSIONAL DESIGNER'S SEAL, (AS PER SECTION 114.0 OF THE BUILDING CODE) SHALL ALSO BE PRESENTED TO THIS DIVISION ON AUTO CAD LT. 2000, OR EQUIVALENT.**

*******CERTIFICATE OF OCCUPANCY FEE $50.00**

BUILDING PERMIT REPORT

DATE: 19 MAY 2000 ADDRESS: LOT 22 Sea Cove Lane, G.D.F. CBL: 083E-A-022

REASON FOR PERMIT: Single Family Dwelling/Foundation only # 000355

BUILDING OWNER: Earl Klien

PERMIT APPLICANT: _____ /CONTRACTOR Wright-Ryan Const. Inc.
Permit paid for on permit #.

USE GROUP: R-3 CONSTRUCTION TYPE: 5B CONSTRUCTION COST: _____ PERMIT FEES: 00355/-

The City's Adopted Building Code (The BOCA National Building code/1999 with City Amendments)
The City's Adopted Mechanical Code (The BOCA National Mechanical Code/1993)

CONDITION(S) OF APPROVAL

This permit is being issued with the understanding that the following conditions are met: *1, *9, *11, *13, *15, *19, *26, *27, *28, *29, *30, *32, *33, *34

*1. This permit does not excuse the applicant from meeting applicable State and Federal rules and laws.
2. Before concrete for foundation is placed, approvals from the Development Review Coordinator and Inspection Services must be obtained. (A 24 hour notice is required prior to inspection) "ALL LOT LINES SHALL BE CLEARLY MARKED BEFORE CALLING."
3. Foundation drain shall be placed around the perimeter of a foundation that consists of gravel or crushed stone containing not more than 10 percent material that passes through a No. 4 sieve. The drain shall extend a minimum of 12 inches beyond the outside edge of the footing. The thickness shall be such that the bottom of the drain is not higher than the bottom of the base under the floor, and that the top of the drain is not less than 6 inches above the top of the footing. The top of the drain shall be covered with an approved filter membrane material. Where a drain tile or perforated pipe is used, the invert of the pipe or tile shall not be higher than the floor elevation. The top of joints or top of perforations shall be protected with an approved filter membrane material. The pipe or tile shall be placed on not less than 2" of gravel or crushed stone, and shall be covered with not less than 6" of the same material. Section 1813.5.2
4. Foundations anchors shall be a minimum of ½" in diameter, 7' into the foundation wall, minimum of 12" from corners of foundation and a maximum 6' O.C. between bolts. Section 2305.17
5. Waterproofing and dampproofing shall be done in accordance with Section 1813.0 of the building code.
6. Precaution must be taken to protect concrete from freezing. Section 1908.0
7. It is strongly recommended that a registered land surveyor check all foundation forms before concrete is placed. This is done to verify that the proper setbacks are maintained.
8. Private garages located beneath habitable rooms in occupancies in Use Group R-1, R-2, R-3 or I-1 shall be separated from adjacent interior spaces by fire partitions and floor/ceiling assembly which are constructed with not less than 1-hour fire resisting rating. Private garages attached side-by-side to rooms in the above occupancies shall be completely separated from the interior spaces and the attic area by means of ½ inch gypsum board or the equivalent applied to the garage side. (Chapter 4, Section 407.0 of the BOCA/1999)

*9. All chimneys and vents shall be installed and maintained as per Chapter 12 of the City's Mechanical Code. (The BOCA National Mechanical Code/1993). Chapter 12 & NFPA 211 and Fireplace.

10. Sound transmission control in residential building shall be done in accordance with Chapter 12, Section 1214.0 of the City's Building Code.

*11. Guardrails & Handrails: A guardrail system is a system of building components located near the open sides of elevated walking surfaces for the purpose of minimizing the possibility of an accidental fall from the walking surface to the lower level. Minimum height all Use Groups 42". In occupancies in Use Group A,B.H-4, I-1, I-2, M and R and public garages and open parking structures, open guards shall have balusters or be of solid material such that a sphere with a diameter of 4" cannot pass through any opening. Guards shall not have an ornamental pattern that would provide a ladder effect. (Handrails shall be a minimum of 34" but not more than 38". Exception: Handrails that form part of a guard shall have a height not less than than 36" and not more than 42". Handrail grip size shall have a circular cross section with an outside diameter of at least 1 ¼" and not greater than 2". (Sections 1021 & 1022.0). Handrails shall be on both sides of stairway. (Section 1014.7)

12. Headroom in habitable space is a minimum of 7'6". (Section 1204.0)

*13. Stair construction in Use Group R-3 & R-4 is a minimum of 10" tread and 7 ¾" maximum rise. All other Use Group minimum 11" tread. 7" maximum rise. (Section 1014.0)

14. The minimum headroom in all parts of a stairway shall not be less than 80 inches. (6'8") 1014.4

*15. Every sleeping room below the fourth story in buildings of Use Groups R and I-1 shall have at least one operable window or exterior door approved for emergency egress or rescue. The units must be operable from the inside without the use of special knowledge or separate tools. Where windows are provided as means of egress or rescue they shall have a sill height not more than 44 inches (1118mm) above the floor. All egress or rescue windows from sleeping rooms shall have a minimum net clear opening height dimension of 24 inches (610mm). The minimum net clear opening width dimension shall be 20 inches (508)mm, and a minimum net clear opening of 5.7 sq. ft. (Section 1010.4)

16. Each apartment shall have access to two (2) separate, remote and approved means of egress. A single exit is acceptable when it exits directly from the apartment to the building exterior with no communications to other apartment units. (Section 1010.1)

17. All vertical openings shall be enclosed with construction having a fire rating of at least one (1) hour, including fire doors with self closer's. (Over 3 stories in height requirements for fire rating is two (2) hours. (Section 710.0)

18. The boiler shall be protected by enclosing with (1) hour fire rated construction including fire doors and ceiling, or by providing automatic extinguishment. (Table 302.1.1)

19. All single and multiple station smoke detectors shall be of an approved type and shall be installed in accordance with the provisions of the City's Building Code Chapter 9, Section 920.3.2 (BOCA National Building Code/1999), and NFPA 101 Chapter 18 & 19. (Smoke detectors shall be installed and maintained at the following locations):
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P. Samuel Hoffses, Building Inspector
cc: Lt. McDougall, PFD
Marge Schmuckal, Zoning Administrator

PSH 12/6/00

**On the basis of plans submitted and conditions placed on these plans any deviations shall require a separate approval.

***THIS PERMIT HAS BEEN ISSUED WITH THE UNDERSTANDING THAT ALL THE CONDITIONS OF THE APPROVAL SHALL BE COMPLETED. THEREFORE, BEFORE THE WORK IS COMPLETED A REVISED PLAN OR STATEMENT FROM THE PERMIT HOLDER SHALL BE SUBMITTED TO THIS OFFICE SHOWING OR EXPLAINING THAT THE CONDITIONS HAVE BEEN MET. IF THIS REQUIREMENT IS NOT RECEIVED YOUR CERTIFICATE OF OCCUPANCY SHALL BE WITHHELD.

****CERTIFICATE OF OCCUPANCY FEE $50.00

**** All PLANS THAT REQUIRE A PROFESSIONAL DESIGNER'S SEAL,(AS PER SECTION114.0 OF THE BUILDINGCODE) SHALL ALSO BE PRESENTED TO THIS DIVISION ON AUTO CAD LT.2000, OR EQUIVALENT.

CITY OF PORTLAND, ME
BOCA 1999 Plan Review Record
One and Two Family Dwelling

Valuation: #300,000.00 Plan Review # _____

Fee: #1,824.00 Date: 16 APRIL 2000

Building Location: Lot #82 Seal Cove Lane G.D.I CBL: 083E-A-022

Building Description: Single Family dwellings.

Reviewed By: S. Hoffses

Use or Occupancy: R-3 Type of Construction: 5-B

*NR: Not Required NA: Not Applicable SR: See Report X: OK per plan

	Correction List	
NO:	Description	Code Section
1.	All Site plan and building Code requirements shall be completed before a Certificate of occupancy can or will be issued.	111.0
2.	This permit will be in Two parts, This part is For Foundation Site work only—	

REV: PSH 4-7-00

Foundations (Chapter 18)

Wood Foundation (1808)

NA Design
NA Installation

Footings (1807.0)

X Depth below (outside) grade 4' minimum,
but below frost line except for insulated footings.
_____ Insulated footing provided
_____ Soil bearing value (table 1804.3)
_____ Footing width
_____ Concrete footing (1810.0) .3.1, 3.2
1815.0 The proposed Foundation will be piers (concrete) on ledge.
_____
_____
_____
_____

Foundation Walls

_____ Design (1812.1)
_____ Minimum thickness Tables 1812.3.2.(1) & 1812.3.2 (2)
_____ Water proofing and damp proofing Section 1813
_____ Sill plate (2305.17)
_____ Anchorage bolting in concrete (2305.17)
_____ Columns (1912)
_____ Crawl space (1210.2) Ventilation
_____ Crawl opening size (1210.2.1)
_____ Access to crawl and attic space (1211.0)
_____

Floors (Chapter 16-23)

_____ Joists - Non sleeping area LL40PSF (Table - 1606)
_____ Joists - Sleeping area LL30PSF (Table - 1606)
_____ Grade
_____ Spacing
_____ Span
_____ Girder 4" bearing 2305.6.1

Floors (contd.)

_____ Bearing (11/2" minimum on wood or steel 3" on masonry) and lapped (3")2305.2
SR Bridging (2305.16)
SR Boring and notching (2305.5.1)
SR Cutting and notching (2305.3)
SR Fastening table (2305.2)
_____ Floor trusses (AFPANDS Chapter 35)
_____ Draft stopping (721.7)
_____ Framing of openings (2305.11) (2305.12)
C Flooring - (2304.4) 1" solid - 1/2" particle board
_____ Concrete floors (1905) 3 1/2" 6 mil polyethylene vapor retarder
_____
_____
_____
_____
_____

Wall Construction (Chapter 2300)

_____ Design (1609) wind loads
_____ Load requirements
_____ Grade
SR Fastening schedule (Table 2305.2)
_____ Wall framing (2305.4.1)
_____ Double top plate (2305.4.2)
_____ Bottom plates: (2305.4.3)
SR Notching and boring: (2305.4.4) studs
_____ Non load bearing walls (2305.5)
_____ Notching and boring (2305.5.1)
_____ Wind bracing (2305.7)
_____ Wall bracing required (2305.8.1)
_____ Stud walls (2305.8.3)
_____ Sheathing installation (2305.8.4)
_____ Minimum thickness of wall sheathing (Table 2305.13)
_____ Metal construction
_____ Masonry construction (Chapter 21)
_____ Exterior wall covering (Chapter 14)
_____ Performance requirements (1403)
_____ Materials (1404)
_____ Veneers (1405)
_____ Interior finishes (Chapter 8)

Roof-Ceiling Construction (Chapter 23)

Load Design Criteria

Floor live load sleeping	30 PSF	
Floor live load non sleeping	40 PSF	
Roof live load	42 PSF	
Roof snow load	46 PSF	
Seismic Zone	2	
Weathering area	S	
Frost line depth	4' MIN	

Glazing (Chapter 24)

SR Labeling (2402.1)
_____ Louvered window or jalousies (2402.5)
_____ Human impact loads (2405.0)
SR Specific hazardous locations (2405.2)
_____ Sloped glazing and skylights (2404)

Private Garages (Chapter 4)

NA General (407)
_____ Beneath rooms (407.3)
_____ Attached to rooms (407.4)
_____ Door sills (407.5)
_____ Means of egress (407.8)
_____ Floor surface (407.9)

Egress (Chapter 10)

_____ One exit from dwelling unit (1010.2)
SR Sleeping room window (1010.4)
_____ EXIT DOOR (1017.3) 32" W 80" H
_____ Landings (1014.3.2) stairway
_____ Ramp slope (1016.0)
SR Stairways (1014.3) 36" W
SR Treads (1014.6) 10" min.
SR Riser (1014.6) 7 3/4" max.
SR Solid riser (1014.6.1)
_____ Winders (1014.6.3)
_____ Spiral and Circular (1014.6.4)
SR Handrails (1022.2.2.) Ht.
SR Handrail grip size (1022.2.4) 1 1/4" to 2"
SR Guards (1012.0) 36" min.
_____
_____
_____

Smoke Detectors (920.3.2)

SR Location and interconnection
SR Power source

Dwelling Unit Separation
Table 602

N/A

Electrical
NFPA # 70

WR

WRIGHT-RYAN CONSTRUCTION, INC.

10 Danforth Street, Portland, Maine 04101 Phone (207)773-3625 Fax (207)773-5173

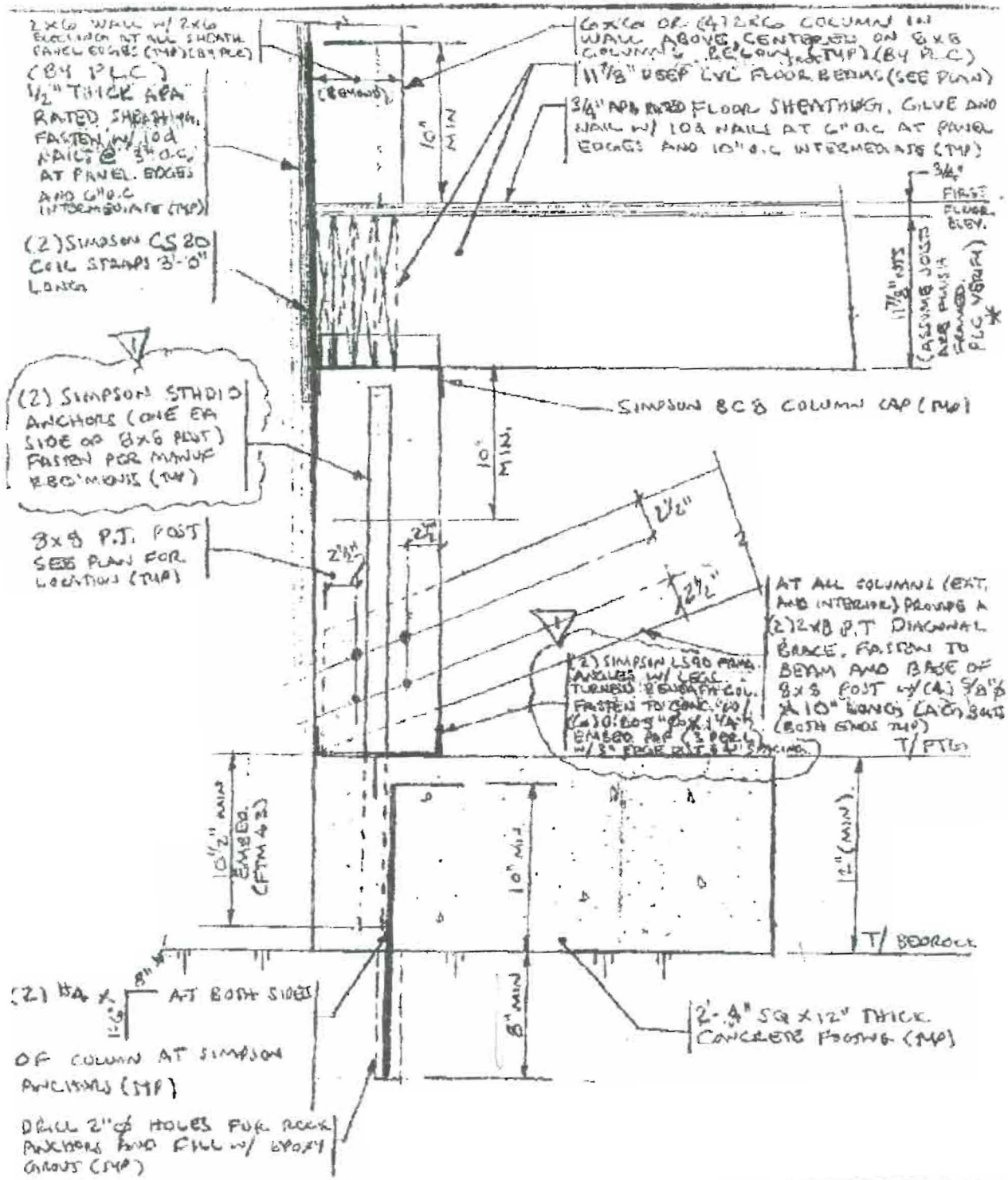
FAX

TO: Portland Inspections FROM: Drew Conning
FAX #: ATTN: Dave Coddell DATE: 5-1-00 TIME:
SUBJECT: Klein res. Lot #22
This Fax Includes This Sheet Plus 1 Sheet(s) 874 8716

If you have problems receiving this transmittal, please call us immediately at (207)773-3625

MESSAGE

Attached is the concrete pad detail which is to be pinned to ledge. We plan to pin and form starting on 5-3-00. We plan to place concrete approx 5-8-00. Please call if you have questions.



APR 10 2000

Post-it® Fax Note 7671	Date 4/10/00	# of pages ▶ 1
To Dave	From L-L Engineering	
Co./Dept.	Co.	
Phone #	Phone #	
Fax # 773-5173	Fax # 799-5932	

WR WRIGHT-RYAN CONSTRUCTION, INC.

FAX

TO: Jeanie Bourke
FAX: 874-8716
FROM: Peter Haber
DATE: 9/12/00
SUBJECT: Klein House @ Great Diamond Island

This Fax Includes This Sheet Plus 2 Sheet(s)

If you have problems receiving this transmittal, please call us immediately at (207) 773-3625

MESSAGE

The following is a letter and drawing showing the location of the house in reference to the side easement.

Please call with any questions.

10 Danforth Street, Portland, Maine 04101 Phone (207) 773-3625 Fax (207) 773-5173

SURVEY & GEODETIC CONSULTANTS, INC.
S.G.C.
EXCELLENCE IN SURVEYING
OF NEW ENGLAND

May 8, 2000

Mr. Peter Haber
Wright-Ryan Construction, Incorporated
10 Danforth Street
Portland, Maine 04101

RE: Diamond Cove Lot 22

Dear Mr. Haber:

This letter serves to define our interpretation of the current status of Diamond Cove Lot 22 in regards to the building location. On April 26, 2000 Survey & Geodetic Consultants, Inc. performed a layout of the house within the building window of record. The building window of record being defined as that depicted on the recorded subdivision plat. There was some concern about the placement of the house in the building window as part of the house was in a wet area and the architect, Mr. James Sterling wanted more of the house on existing ledge.

In a letter forwarded to Survey & Geodetic Consultants, Inc. by Wright-Ryan Construction, Incorporated, prepared by Mr. James Sterling, we were given direction to lay the house out as depicted on the attached sketch.

Sincerely,
Survey & Geodetic Consultants, Inc.

Timothy A. Patell, PLS
President

MPP/mpp
Enclosure: Sketch

966 Riverside Street • Portland, Maine • 04103
Phone: 207-878-7800 • Fax: 207-878-0201 • E-Mail: sgc@gwi.net

DIAMOND COVE LOT 22
PROJ. #:1-000076.00
5/8/00
BUILDING LOCATION
1"=20'

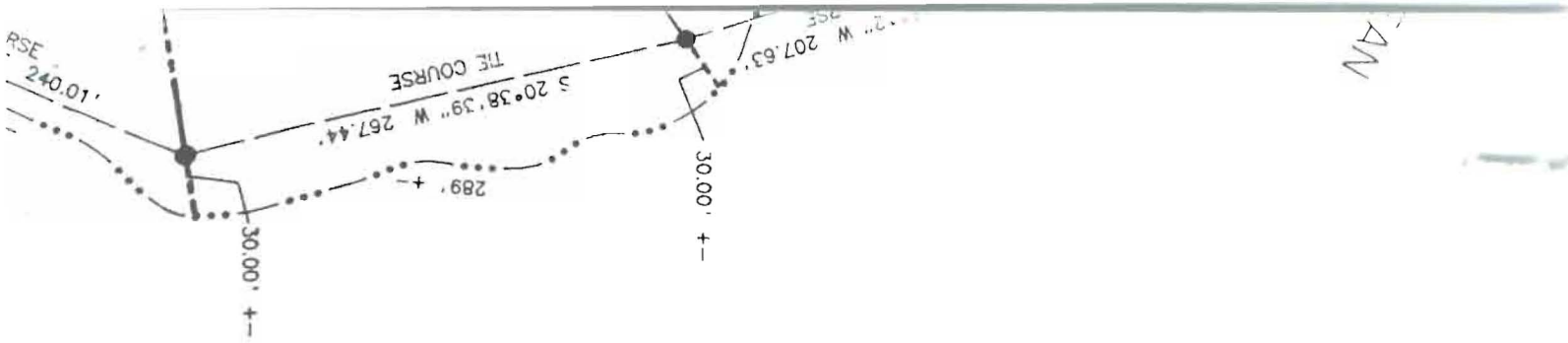
N

42.03'

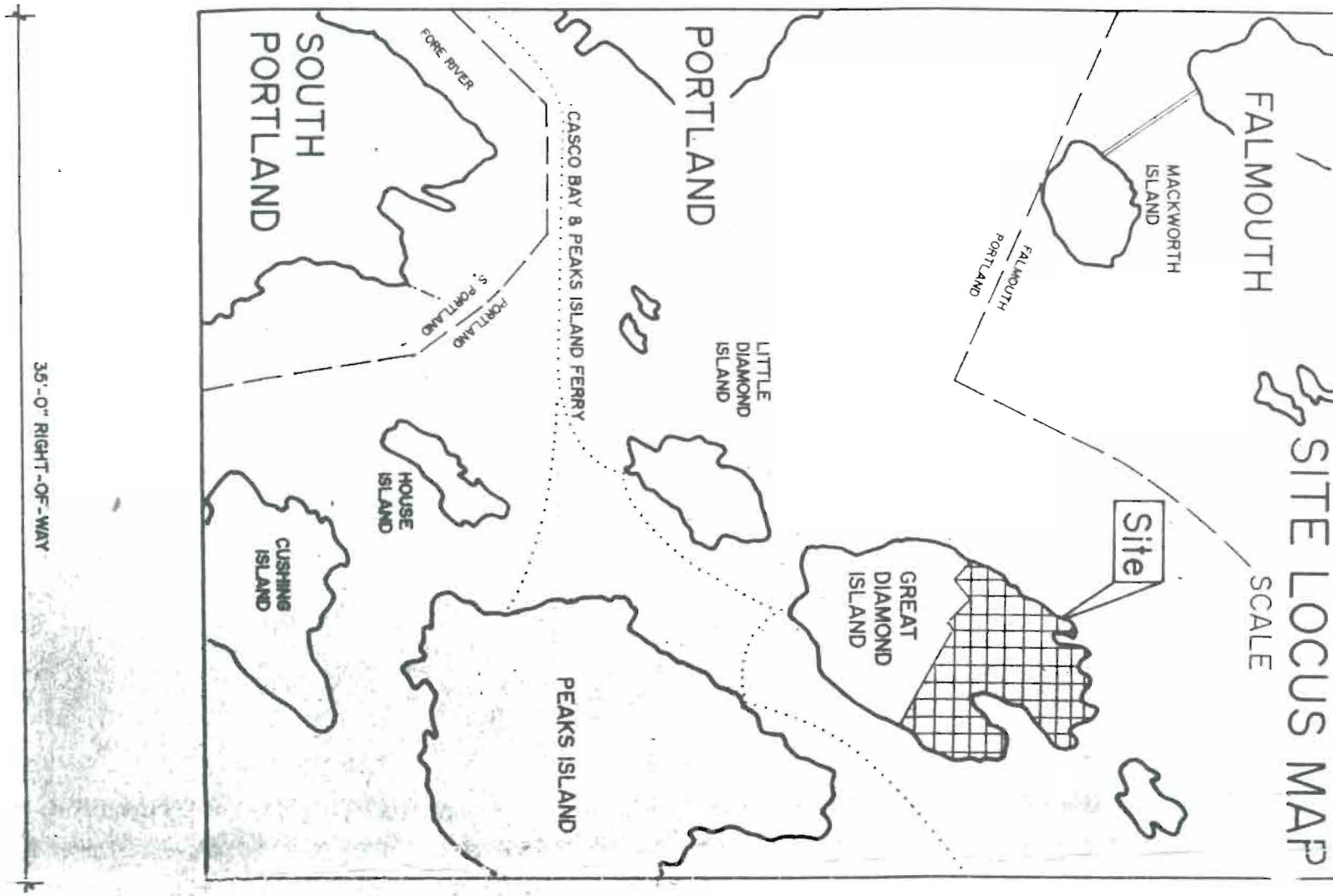
EASEMENT

RECORDED BUILDING ENVELOPE

PROPERTY LINE



MATCHLINE SEE SHT. 3 FOR CONTINUATION



ENDED RECORDING PLAT

IOND COVE PHASE II

REAT DIAMOND ISLAND
PORTLAND, MAINE

93-E-A 22

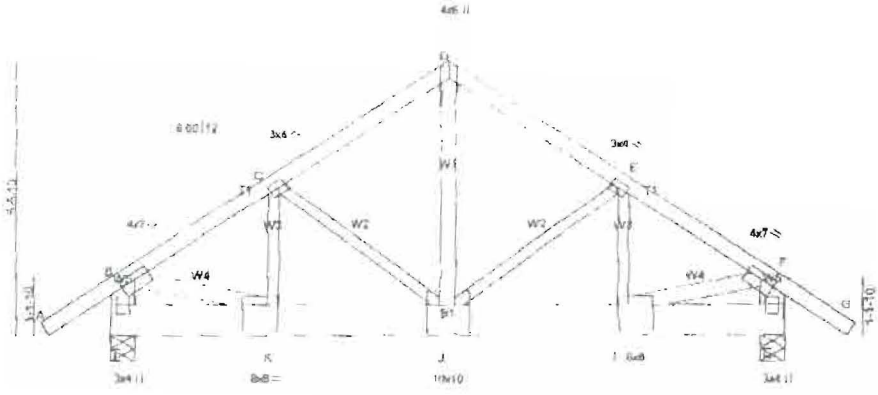
LAND USE CONSULTANT
Land Planners • Engineers • Surveyor
One India Street Portland, Maine 0410
207-772-8392

Job	Truss	Truss Type	Qty	Ply	HANCOCK LUMBER
11394	A	HOWE	1	2	MAINE 42,10,10,90MPH

P.L.C. WOOD COMPONENT, ST. AUGUSTIN 4.0-32 s Feb 18 1999 MiTek Industries, Inc. Wed May 10 14:19:42 2000 Page 1

83-E-A-0327
#00-0355

1-4-0	3-1-6	6-6-0	9-10-10	13-0-0	14-4-0
1-4-0	3-1-6	3-4-10	3-4-10	3-1-6	1-4-0



3-1-6	6-6-0	9-10-10	13-0-0
3-1-6	3-4-10	3-4-10	3-1-6

Plate Offsets (X,Y): [B:0-3-8,0-1-8], [C:0-1-12,0-1-8], [E:0-1-12,0-1-8], [F:0-3-8,0-1-8], [H:0-1-8,0-2-4], [I:0-2-4,0-6-0], [J:0-6-0,0-6-12], [K:0-2-4,0-6-0], [L:0-1-8,0-2-4]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	(in)	(loc)	l/defl	PLATES	GRIP
TCLL	42.0	Plates Increase	1.15	TC	0.49	Vert(LL)	-0.08	I-J	>999	M20	197/144
TCDL	10.0	Lumber Increase	1.15	BC	0.98	Vert(TL)	-0.11	I-J	>999		
BCLL	0.0	Rep Stress Incr	NO	WB	0.83	Horz(TL)	0.01	H	n/a		
BCDL	10.0	Code	BOCA/ANSI95			1st LC LL Min l/defl = 360				Weight: 150 lb	

LUMBER
TOP CHORD 2 X 4 SPF No.2
BOT CHORD 2 X 8 SPF No.2
WEBS 2 X 3 SPF No.2 *Except*
W5 2 X 6 SPF No.2, W5 2 X 6 SPF No.2
W1 2 X 4 SPF No.2, W4 2 X 4 SPF No.2
W4 2 X 4 SPF No.2

BRACING
TOP CHORD Sheathed or 3-11-9 on center purlin spacing, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 on center bracing.

REACTIONS (lb/size) L=4652/0-5-8, H=6733/0-6-1 (input: 0-5-8)
Max Horz L=-318(load case 4)
Max Uplift L=-1902(load case 6), H=-2736(load case 6)
Max Grav L=5280(load case 2), H=7714(load case 3)

FORCES (lb) - First Load Case Only
TOP CHORD A-B=43, B-C=-5261, C-D=-5645, D-E=-5645, E-F=-6686, F-G=43, B-L=4452, F-H=-5578
BOT CHORD K-L=-0, J-K=4377, I-J=5563, H-I=0
WEBS C-K=-797, D-J=5911, E-I=951, C-J=411, E-J=-1114, B-K=4547, F-I=-5779

NOTES
1) 2-ply truss to be connected together with 10d Common(.148"x3") Nails as follows: Top chords connected with 2 row(s) at 0-9-0 on center. Bottom chords connected with 1 row(s) at 0-9-0 on center. Webs connected as follows: 2 X 3 - 1 row(s) at 0-9-0 on center, 2 X 4 - 1 row(s) at 0-9-0 on center.
2) Special connection required to distribute bottom chord loads equally between all plies.
3) This truss has been designed for the wind loads generated by 90 mph winds at 25 ft above ground level, using 5.0 psf top chord dead load and 5.0 psf bottom chord dead load, 0 mi from hurricane oceanline, on an occupancy category I, condition I enclosed building, of dimensions 45 ft by 24 ft with exposure D ASCE 7-93 per BOCA/ANSI95 If end verticals or cantilevers exist, they are exposed to wind. If porches exist, they are not exposed to wind. The lumber DOL increase is 1.33, and the plate grip increase is 1.33
4) Unbalanced snow loads have been considered for this design.
5) Except as shown below, special connection(s) required to support concentrated load(s). Design of connection(s) is delegated to the building designer.
6) All plates are M20 plates unless otherwise indicated.
7) This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 3-6-0 between the bottom chord and any other members.
8) WARNING: Required bearing size at joint(s) H greater than input bearing size.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1902 lb uplift at joint L and 2736 lb uplift at joint H.
10) This truss has been designed with ANSI/TPI 1-1995 criteria.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	HANCOCK LUMBER
11394	A	HOWE	1	2	MAINE 42,10,10,90MPH

NOTES
1) Load case(s) 1, 2, 3, 4, 5, 6 has been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S)
1) Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: K-L=-138.0, J-K=-138.0, I-J=-802.0, H-I=-802.0, A-B=-104.0, B-C=-104.0, C-D=-104.0, D-E=-104.0, E-F=-104.0, F-G=-104.0
Concentrated Loads (lb)
Vert: J=-3878
2) Unbal.Snow-Left: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: K-L=-158.0, J-K=-158.0, I-J=-934.4, H-I=-934.4, A-B=-125.0, B-C=-125.0, C-D=-125.0, D-E=-20.0, E-F=-20.0, F-G=-20.0
Concentrated Loads (lb)
Vert: J=-4536
3) Unbal.Snow-Right: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: K-L=-158.0, J-K=-158.0, I-J=-934.4, H-I=-934.4, A-B=-20.0, B-C=-20.0, C-D=-20.0, D-E=-125.0, E-F=-125.0, F-G=-125.0
Concentrated Loads (lb)
Vert: J=-4535
4) Wind Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: K-L=30.9, J-K=30.9, I-J=281.2, H-I=261.2, A-B=48.2, B-C=8.6, C-D=8.6, D-E=53.0, E-F=53.0, F-G=92.5
Horz: A-B=-58.2, B-C=-18.6, C-D=-18.6, D-E=63.0, E-F=63.0, F-G=102.5, B-L=39.5, F-H=69.8
Concentrated Loads (lb)
Vert: J=1345
5) Wind Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: K-L=37.4, J-K=37.4, I-J=304.3, H-I=304.3, A-B=92.5, B-C=53.0, C-D=53.0, D-E=8.6, E-F=8.6, F-G=48.2
Horz: A-B=-102.5, B-C=-63.0, C-D=-63.0, D-E=18.6, E-F=18.6, F-G=58.2, B-L=-69.8, F-H=-39.5
Concentrated Loads (lb)
Vert: J=1558
6) 1st Wind Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: K-L=37.4, J-K=37.4, I-J=304.3, H-I=304.3, A-B=92.5, B-C=53.0, C-D=53.0, D-E=53.0, E-F=53.0, F-G=92.5
Horz: A-B=-102.5, B-C=-63.0, C-D=-63.0, D-E=63.0, E-F=63.0, F-G=102.5, B-L=39.5, F-H=-39.5
Concentrated Loads (lb)
Vert: J=1558

Job	Truss	Truss Type	Qty	Ply	HANCOCK LUMBER
11394	B	ROOF TRUSS	7	1	MANE 42.10.10.90MPH

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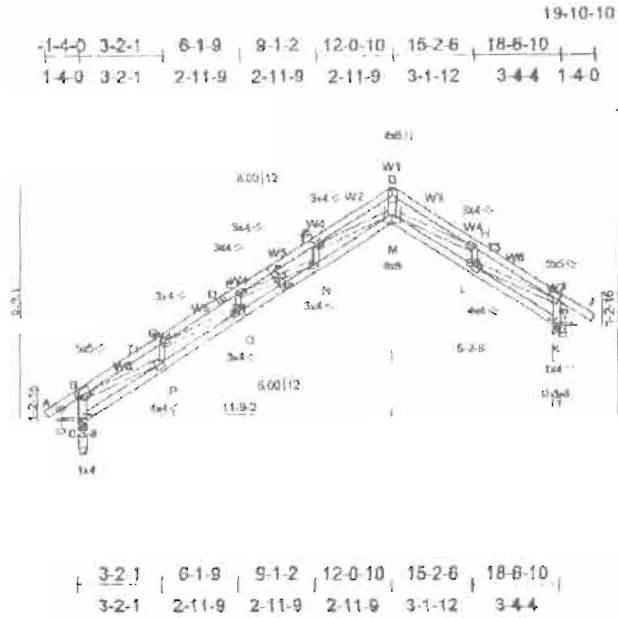

3-2-1 6-1-9 9-1-2 12-0-10 15-2-6 18-6-10
3-2-1 2-11-9 2-11-9 2-11-9 3-1-12 3-4-4

Plate Offsets (X,Y): [B:0-1-12,0-2-12], [I:0-1-12,0-2-12]

LOADING (psf)		SPACING	1-4-0	CSI		DEFL	(in)	(loc)	l/defl	PLATES	GRIP
TCLL	42.0	Plates Increase	1.15	TC	0.44	Vert(LL)	-0.46	N	>473	M20	197/144
TCDL	10.0	Lumber Increase	1.15	BC	0.96	Vert(TL)	-0.68	N	>320		
BCLL	0.0	Rep Stress Incr	YES	WB	0.89	Horz(TL)	0.91	K	n/a		
BCDL	10.0	Code	BOCA/ANSI95			1st LC LL Min l/defl = 360				Weight: 76 lb	

LUMBER
TOP CHORD 2 X 4 SPF No.2
BOT CHORD 2 X 4 SPF No.2
WEBS 2 X 3 SPF No.2 *Except*
W7 2 X 4 SPF No.2, W7 2 X 4 SPF No.2
W1 2 X 4 SPF No.2

BRACING
TOP CHORD Sheathed or 2-7-8 on center purlin spacing, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-4-5 on center bracing.

REACTIONS (lb/size) Q=852/0-3-8, K=852/0-3-8
Max Horz Q=386(load case 5)
Max Uplift Q=-330(load case 6), K=-366(load case 6)
Max Grav Q=922(load case 2), K=852(load case 1)

FORCES (lb) - First Load Case Only
TOP CHORD B-Q=-832, A-B=27, B-C=-2099, C-D=-3347, D-E=-3347, E-F=-3796, F-G=-3447, G-H=-3447, H-I=-2200, I-J=27, I-K=-830
BOT CHORD P-Q=-0, O-P=2099, N-O=3347, M-N=3796, L-M=2200, K-L=0
WEBS B-P=1826, C-P=-590, C-O=1084, E-O=-343, E-N=390, F-N=-98, F-M=-303, G-M=3612, H-M=1089, H-L=-580, I-L=1926

NOTES
1) This truss has been designed for the wind loads generated by 90 mph winds at 25 ft above ground level, using 5.0 psf top chord dead load and 5.0 psf bottom chord dead load, 0 mi from hurricane oceanline, on an occupancy category I, condition I enclosed building, of dimensions 45 ft by 24 ft with exposure D ASCE 7-93 per BOCA/ANSI95 If end verticals or cantilevers exist, they are exposed to wind. If porches exist, they are not exposed to wind. The lumber DOL increase is 1.33, and the plate grip increase is 1.33
2) Unbalanced snow loads have been considered for this design.
3) All plates are M20 plates unless otherwise indicated.
4) This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 3-6-0 between the bottom chord and any other members.
5) Bearing at joint(s) Q, K considers parallel to grain value using ANSI/TPI 1-1995 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 330 lb uplift at joint Q and 366 lb uplift at joint K.
7) This truss has been designed with ANSI/TPI 1-1995 criteria.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	HANCOCK LUMBER
11394	C	SLOPING FLAT	9	1	MAINE 42,10,10,90MPH

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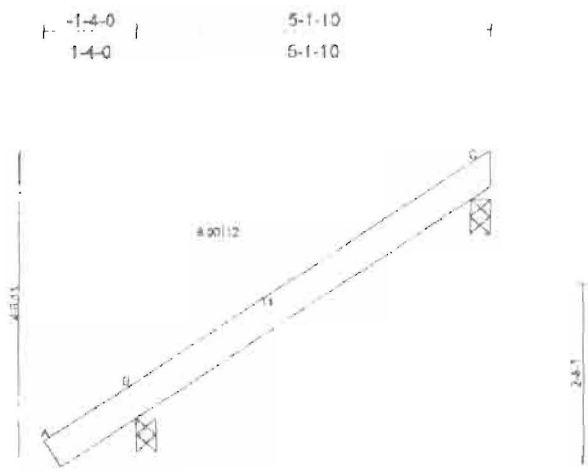


5-1-10
5-1-10

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	(in)	(loc)	l/defl	PLATES	GRIP
TCLL	42.0	Plates Increase	1.15	TC	0.18	Vert(LL)	n/a	-	n/a		
TCDL	10.0	Lumber Increase	1.15	BC	0.00	Vert(TL)	0.02	A-B	>707		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	C	n/a		
BCDL	10.0	Code	BOCA/ANSI95	(Matrix)		1st LC LL Min l/defl = 360				Weight: 14 lb	

LUMBER
TOP CHORD 2 X 6 SPF 2100F 1.8E

BRACING
TOP CHORD Sheathed.
BOT CHORD Rigid ceiling directly applied or 0 on center bracing.

REACTIONS (lb/size) C=232/0-3-8, B=412/0-3-8
Max Horz B=296(load case 5)
Max Uplift C=-170(load case 5), B=-212(load case 5)
Max Grav C=279(load case 2), B=495(load case 2)

FORCES (lb) - First Load Case Only
TOP CHORD A-B=78, B-C=101

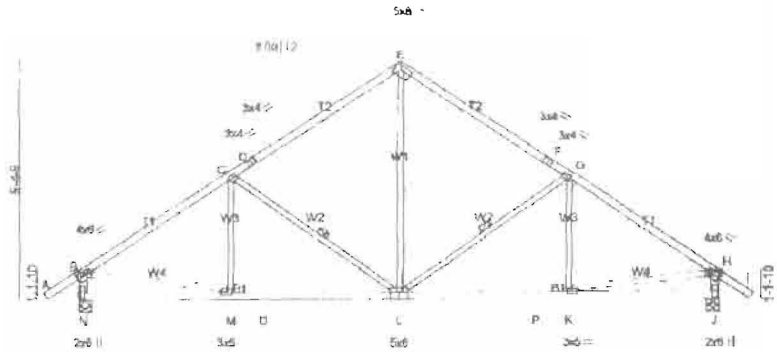
NOTES
1) This truss has been designed for the wind loads generated by 90 mph winds at 25 ft above ground level, using 5.0 psf top chord dead load and 5.0 psf bottom chord dead load, 0 mi from hurricane oceanline, on an occupancy category I, condition I enclosed building, of dimensions 45 ft by 24 ft with exposure D ASCE 7-93 per BOCA/ANSI95 If end verticals or cantilevers exist, they are exposed to wind. If porches exist, they are not exposed to wind. The lumber DOL increase is 1.33, and the plate grip increase is 1.33
2) Unbalanced snow loads have been considered for this design.
3) All plates are M20 plates unless otherwise indicated.
4) This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 3-6-0 between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 170 lb uplift at joint C and 212 lb uplift at joint B.
6) This truss has been designed with ANSI/TPI 1-1995 criteria.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	HANCOCK LUMBER
11394	F	HOWE	1	1	MAINE 42,10,10,90MPH

F V

1-4-0	5-9-12	12-4-6	18-11-0	24-8-12	26-0-12
1-4-0	5-9-12	6-6-10	6-6-10	5-9-12	1-4-0



5-9-12	12-4-6	18-11-0	24-8-12
5-9-12	6-6-10	6-6-10	5-9-12

Plate Offsets (X,Y): [B:0-2-0,0-2-0], [E:0-5-0,0-2-0], [H:0-2-0,0-2-0], [K:0-2-0,0-1-8], [L:0-4-0,0-3-0], [M:0-2-0,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	(in)	(loc)	l/defl	PLATES	GRIP
TCLL	42.0	Plates Increase	1.15	TC	0.94	Vert(LL)	-0.08	K-L	>999	M20	197/144
TCDL	10.0	Lumber Increase	1.15	BC	0.59	Vert(TL)	-0.14	K-L	>999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.83	Horz(TL)	0.04	J	n/a		
BCDL	10.0	Code	BOCA/ANSI95	(Matrix)		1st LC LL Min l/defl = 360				Weight: 103 lb	

LUMBER
TOP CHORD 2 X 4 SPF No.2 *Except*
T1 2 X 4 SPF 1650F 1.5E
T1 2 X 4 SPF 1650F 1.5E
BOT CHORD 2 X 4 SPF No.2
WEBS 2 X 3 SPF No.2 *Except*
W5 2 X 4 SPF No.2, W5 2 X 4 SPF No.2

BRACING
TOP CHORD Sheathed or 3-7-5 on center purlin spacing, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-11-1 on center bracing.
WEBS 1 Row at midpt C-L, G-L

REACTIONS (lb/size) N=1711/0-5-8, J=1711/0-5-8
Max Horz N=503(load case 5)
Max Uplift N=-655(load case 6), J=-655(load case 6)

FORCES (lb) - First Load Case Only
TOP CHORD A-B=81, B-C=-1988, C-D=-1504, D-E=-1324, E-F=-1324, F-G=-1504, G-H=-1988, H-I=81, B-N=-1646, H-J=-1648
BOT CHORD M-N=289, M-O=1522, L-O=1522, L-P=1522, K-P=1522, J-K=289
WEBS C-M=-46, E-L=757, G-K=-46, C-L=-517, G-L=-517, B-M=1249, H-K=1249

NOTES
1) This truss has been designed for the wind loads generated by 90 mph winds at 25 ft above ground level, using 5.0 psf top chord dead load and 5.0 psf bottom chord dead load, 0 mi from hurricane oceanline, on an occupancy category I, condition I enclosed building, of dimensions 45 ft by 24 ft with exposure D ASCE 7-93 per BOCA/ANSI95 If end verticals or cantilevers exist, they are exposed to wind. If porches exist, they are not exposed to wind. The lumber DOL increase is 1.33, and the plate grip increase is 1.33
2) Unbalanced snow loads have been considered for this design.
3) All plates are M20 plates unless otherwise indicated.
4) This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 3-6-0 between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 655 lb uplift at joint N and 655 lb uplift at joint J.
6) This truss has been designed with ANSI/TPI 1-1995 criteria.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	HANCOCK LUMBER
11394	F4	ROOF TRUSS	2	4	MAINE 42,10,10,10,90MPH

F4

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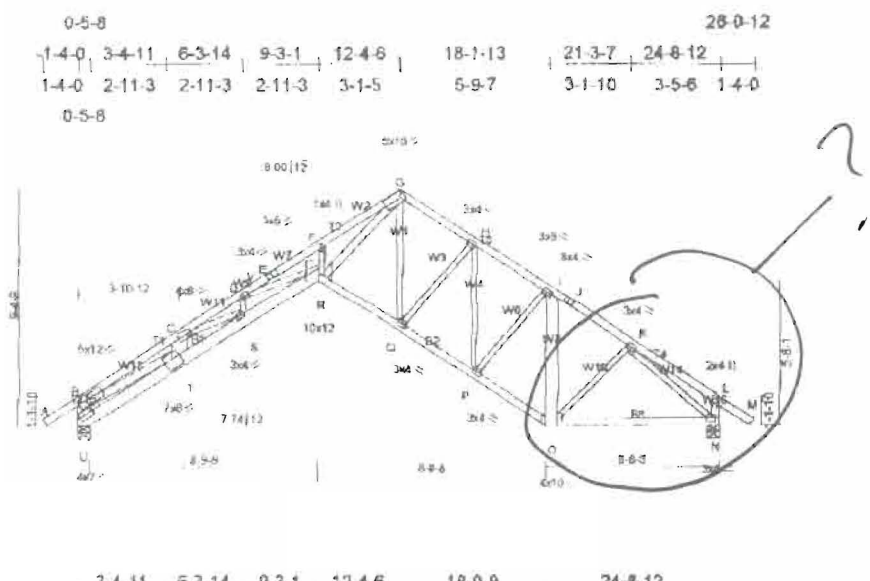

Plate Offsets (X,Y): [B:0-8-0,0-2-4], [C:0-1-8,0-2-0], [G:0-7-12,0-3-0], [I:0-1-8,0-1-8], [O:0-2-8,0-2-0], [R:0-6-0,0-4-3], [T:0-3-8,0-4-4], [U:0-1-5,0-2-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	(in)	(loc)	l/defl	PLATES	GRIP
TCLL	42.0	Plates Increase	1.15	TC	0.74	Vert(LL)	-0.48	R-S	>603	M20	197/144
TCDL	10.0	Lumber Increase	1.15	BC	0.87	Vert(TL)	-0.70	R-S	>420		
BCLL	0.0	Rep Stress Incr	YES	WB	0.80	Horz(TL)	0.75	N	n/a		
BCDL	10.0	Code	BOCA/ANSI95	(Matrix)		1st LC LL Min l/defl = 360				Weight: 510 lb	

LUMBER
TOP CHORD 2 X 4 SPF 2100F 1.8E
BOT CHORD 2 X 4 SPF 2100F 1.8E *Except*
B1 2 X 6 SPF 2100F 1.8E
WEBS 2 X 3 SPF No.2 *Except*
W13 2 X 4 SPF 1650F 1.5E
W12 2 X 8 SPF No.2, W8 2 X 6 SPF No.2
W16 2 X 4 SPF No.2, W15 2 X 6 SPF No.2
W2 2 X 4 SPF 1650F 1.5E

BRACING
TOP CHORD Sheathed or 6-0-0 on center purlin spacing, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 on center bracing.

REACTIONS (lb/size) U=6340/0-5-8, N=2500/0-5-8
Max Horz U=510(load case 5)
Max Uplift U=-2282(load case 6), N=-945(load case 6)
Max Grav U=7102(load case 2), N=2615(load case 3)

FORCES (lb) - *First Load Case Only*
TOP CHORD A-B=86, B-C=-20959, C-D=-22546, D-V=-17112, E-V=-17051, E-F=-16959, F-G=-16803, G-H=-4489, H-I=-3826, I-J=-2825, J-K=-2969, K-L=-547, L-M=81, L-N=-621, B-U=-6822
BOT CHORD T-U=2708, S-T=20796, R-S=21671, Q-R=4247, P-Q=3760, O-P=2839, N-O=2226
WEBS B-T=15275, C-T=-480, C-S=1652, D-S=1384, D-R=-4787, F-R=67, G-Q=-605, H-Q=1005, I-O=-1565, K-O=283, K-N=-2604, I-P=975, H-P=-1339, G-R=15727

NOTES
1) 4-ply truss to be connected together with 10d Common(.148"x3") Nails as follows: Top chords connected with 2 row(s) at 0-9-0 on center. Bottom chords connected with 1 row(s) at 0-9-0 on center. Webs connected as follows: 2 X 3 - 1 row(s) at 0-9-0 on center, 2 X 4 - 1 row(s) at 0-9-0 on center, 2 X 6 - 2 row(s) at 0-9-0 on center, 2 X 8 - 2 row(s) at 0-9-0 on center. Attach chords with 1/2 inch diameter bolts (ASTM a-307) with washers at 2-0-0 on center.
2) Special connection required to distribute bottom chord loads equally between all plies.
3) This truss has been designed for the wind loads generated by 90 mph winds at 25 ft above ground level, using 5.0 psf top chord dead load and 5.0 psf bottom chord dead load, 0 mi from hurricane oceanline, on an occupancy category I, condition I enclosed building, of dimensions 45 ft by 24 ft with exposure D ASCE 7-93 per BOCA/ANSI95 If end verticals or cantilevers exist, they are exposed to wind. If porches exist, they are not exposed to wind. The lumber DOL increase is 1.33, and the plate grip increase is 1.33
4) Unbalanced snow loads have been considered for this design.
5) Except as shown below, special connection(s) required to support concentrated load(s). Design of connection(s) is delegated to the building designer.
6) All plates are M20 plates unless otherwise indicated.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	HANCOCK LUMBER
11394	F4	ROOF TRUSS	2	4	MAINE 42,10,10,10,90MPH

NOTES
7) This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 3-6-0 between the bottom chord and any other members.
8) Bearing at joint(s) U considers parallel to grain value using ANSI/TPI 1-1995 angle to grain formula. Building designer should verify capacity of bearing surface.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2282 lb uplift at joint U and 945 lb uplift at joint N.
10) This truss has been designed with ANSI/TPI 1-1995 criteria.
11) Load case(s) 1, 2, 3, 4, 5, 6 has been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S)
1) Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-B=-104.0, B-C=-104.0, C-D=-173.0, D-V=-173.0, E-V=-104.0, E-F=-104.0, F-G=-104.0, G-H=-104.0, H-I=-104.0, I-J=-104.0, J-K=-104.0, K-L=-104.0, L-M=-104.0, T-U=-20.0, S-T=-20.0, R-S=-20.0, Q-R=-20.0, P-Q=-20.0, O-P=-20.0, N-O=-20.0
Concentrated Loads (lb)
Vert: T=-5307
2) Unbal.Snow-Left: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-B=-125.0, B-C=-125.0, C-D=-205.7, D-V=-205.7, E-V=-125.0, E-F=-125.0, F-G=-125.0, G-H=-20.0, H-I=-20.0, I-J=-20.0, J-K=-20.0, K-L=-20.0, L-M=-20.0, T-U=-20.0, S-T=-20.0, R-S=-20.0, Q-R=-20.0, P-Q=-20.0, O-P=-20.0, N-O=-20.0
Concentrated Loads (lb)
Vert: T=-6206
3) Unbal Snow-Right: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-B=-20.0, B-C=-20.0, C-D=-100.7, D-V=-100.7, E-V=-20.0, E-F=-20.0, F-G=-20.0, G-H=-125.0, H-I=-125.0, I-J=-125.0, J-K=-125.0, K-L=-125.0, L-M=-125.0, T-U=-20.0, S-T=-20.0, R-S=-20.0, Q-R=-20.0, P-Q=-20.0, O-P=-20.0, N-O=-20.0
Concentrated Loads (lb)
Vert: T=-6206
4) Wind Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: A-B=48.2, B-C=8.6, C-D=32.5, D-V=32.5, E-V=8.6, E-F=8.6, F-G=8.6, G-H=53.0, H-I=53.0, I-J=53.0, J-K=53.0, K-L=53.0, L-M=92.5, T-U=-10.0, S-T=-10.0, R-S=-10.0, Q-R=-10.0, P-Q=-10.0, O-P=-10.0, N-O=-10.0
Horz: A-B=-58.2, B-C=-18.6, C-D=-18.6, D-V=-18.6, E-V=-18.6, E-F=-18.6, F-G=-18.6, G-H=63.0, H-I=63.0, I-J=63.0, J-K=63.0, K-L=63.0, L-M=102.5, L-N=69.8, B-U=39.5
Concentrated Loads (lb)
Vert: T=1840
5) Wind Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: A-B=92.5, B-C=53.0, C-D=76.9, D-V=76.9, E-V=53.0, E-F=53.0, F-G=53.0, G-H=8.6, H-I=8.6, I-J=8.6, J-K=8.6, K-L=8.6, L-M=48.2, T-U=-10.0, S-T=-10.0, R-S=-10.0, Q-R=-10.0, P-Q=-10.0, O-P=-10.0, N-O=-10.0
Horz: A-B=-102.5, B-C=-63.0, C-D=-63.0, D-V=-63.0, E-V=-63.0, E-F=-63.0, F-G=-63.0, G-H=18.6, H-I=18.6, I-J=18.6, J-K=18.6, K-L=18.6, L-M=58.2, L-N=-39.5, B-U=-69.8
Concentrated Loads (lb)
Vert: T=1840
6) 1st Wind Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: A-B=92.5, B-C=53.0, C-D=76.9, D-V=76.9, E-V=53.0, E-F=53.0, F-G=53.0, G-H=53.0, H-I=53.0, I-J=53.0, J-K=53.0, K-L=53.0, L-M=92.5, T-U=-10.0, S-T=-10.0, R-S=-10.0, Q-R=-10.0, P-Q=-10.0, O-P=-10.0, N-O=-10.0
Horz: A-B=-102.5, B-C=-63.0, C-D=-63.0, D-V=-63.0, E-V=-63.0, E-F=-63.0, F-G=-63.0, G-H=63.0, H-I=63.0, I-J=63.0, J-K=63.0, K-L=63.0, L-M=102.5, L-N=-39.5, B-U=39.5
Concentrated Loads (lb)
Vert: T=1840

Job	Truss	Truss Type	Qty	Ply	HANCOCK LUMBER
11394	F5	ROOF TRUSS	1	4	MAINE 42,10,10,90MPH

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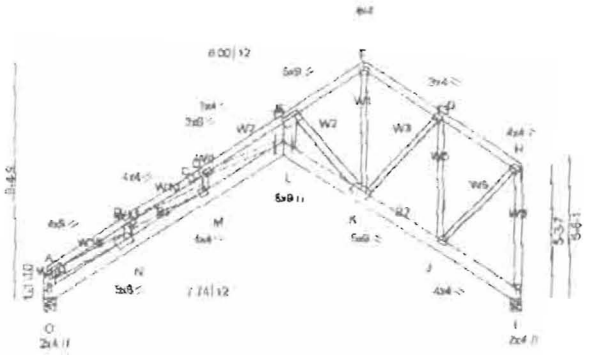
F5 ✓

1-4-0	3-2-11	6-2-13	9-3-0	12-4-6	15-4-0	16-6-1
1-4-0	3-2-11	3-0-3	3-0-3	3-1-6	2-11-10	3-2-2



3-2-11	6-2-13	9-3-0	12-4-6	15-4-0	16-6-1
3-2-11	3-0-3	3-0-3	3-1-6	2-11-10	3-2-2

Plate Offsets (X,Y): [A:0-4-0,0-1-8], [B:0-1-12,0-1-12], [E:0-2-0,0-1-12], [F:0-2-0,0-1-8], [H:0-1-12,0-2-0], [K:0-1-8,0-3-0], [L:0-4-0,0-6-0]

LOADING (psf)		SPACING	1-0-0	CSI		DEFL	(in)	(loc)	l/defl	PLATES	GRIP
TCLL	42.0	Plates Increase	1.15	TC	0.83	Vert(LL)	-0.46	L	>471	M20	197/144
TCDL	10.0	Lumber Increase	1.15	BC	0.75	Vert(TL)	-0.64	L	>339		
BCLL	0.0	Rep Stress Incr	YES	WB	0.93	Horz(TL)	0.89	I	n/a		
BCDL	10.0	Code	BOCA/ANSI95			1st LC LL Min l/defl = 360				Weight: 423 lb	

LUMBER
TOP CHORD 2 X 4 SPF 2100F 1.8E
BOT CHORD 2 X 6 SPF 2100F 1.8E *Except*
B2 2 X 6 SPF 1650F 1.5E
WEBS 2 X 3 SPF No.2 *Except*
W11 2 X 4 SPF No.2, W10 2 X 4 SPF No.2
W4 2 X 6 SPF 1650F 1.5E, W2 2 X 4 SPF No.2
W13 2 X 6 SPF No.2
W12 2 X 4 SPF 1650F 1.5E
W8 2 X 4 SPF No.2

BRACING
TOP CHORD Sheathed or 6-0-0 on center purlin spacing, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 on center bracing.

REACTIONS (lb/size) O=5285/0-5-8, I=5285/0-5-8
Max Horz O=354(load case 5)
Max Uplift O=-2058(load case 6), I=-2128(load case 6)
Max Grav O=6128(load case 2), I=5967(load case 3)

FORCES (lb) - First Load Case Only
TOP CHORD A-B=-15075, B-C=-22847, C-D=-22847, D-E=-19391, E-F=-4837, F-G=-4839, G-H=-3096, A-O=-4490, H-I=-44
BOT CHORD N-O=0, M-N=14926, L-M=21750, K-L=19199, J-K=3053, I-J=0
WEBS B-N=-2541, B-M=6746, D-M=1149, D-L=-2960, E-L=21952, E-K=-18539, F-K=5215, G-K=2180, G-J=-2743, A-N=13151, H-J=3717

NOTES
1) 4-ply truss to be connected together with 10d Common(.148"x3") Nails as follows: Top chords connected with 2 row(s) at 0-9-0 on center. Bottom chords connected with 2 row(s) at 0-5-0 on center. Webs connected as follows: 2 X 3 - 1 row(s) at 0-9-0 on center, 2 X 4 - 1 row(s) at 0-9-0 on center, 2 X 6 - 2 row(s) at 0-9-0 on center. Attach chords with 1/2 inch diameter bolts (ASTM a-307) with washers at 2-0-0 on center.
2) This truss has been designed for the wind loads generated by 90 mph winds at 25 ft above ground level, using 5.0 psf top chord dead load and 5.0 psf bottom chord dead load, 0 mi from hurricane oceanline, on an occupancy category I, condition I enclosed building, of dimensions 45 ft by 24 ft with exposure D ASCE 7-93 per BOCA/ANSI95 If end verticals or cantilevers exist, they are exposed to wind. If porches exist, they are not exposed to wind. The lumber DOL increase is 1.33, and the plate grip increase is 1.33
3) Unbalanced snow loads have been considered for this design.
4) All plates are M20 plates unless otherwise indicated.
5) This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 3-6-0 between the bottom chord and any other members.
6) Bearing at joint(s) O, I considers parallel to grain value using ANSI/TPI 1-1995 angle to grain formula. Building designer should verify capacity of bearing surface.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	HANCOCK LUMBER
11394	F5	ROOF TRUSS	1	4	MAINE 42,10,10,90MPH

NOTES
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2058 lb uplift at joint O and 2128 lb uplift at joint I.
8) This truss has been designed with ANSI/TPI 1-1995 criteria.
9) Load case(s) 1, 2, 3, 4, 5, 6 has been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S)
1) Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-B=-52.0, B-C=-52.0, C-D=-52.0, D-E=-52.0, E-F=-52.0, F-G=-52.0, G-H=-52.0, N-O=-531.0, M-N=-531.0, L-M=-531.0, K-L=-531.0, J-K=-531.0, I-J=-531.0
2) Unbal.Snow-Left: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-B=-62.5, B-C=-62.5, C-D=-62.5, D-E=-62.5, E-F=-62.5, F-G=-10.0, G-H=-10.0, N-O=-619.2, M-N=-619.2, L-M=-619.2, K-L=-619.2, J-K=-619.2, I-J=-619.2
3) Unbal.Snow-Right: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-B=-10.0, B-C=-10.0, C-D=-10.0, D-E=-10.0, E-F=-10.0, F-G=-62.5, G-H=-62.5, N-O=-619.2, M-N=-619.2, L-M=-619.2, K-L=-619.2, J-K=-619.2, I-J=-619.2
4) Wind Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: A-B=4.3, B-C=4.3, C-D=4.3, D-E=4.3, E-F=4.3, F-G=26.5, G-H=26.5, N-O=175.7, M-N=175.7, L-M=175.7, K-L=175.7, J-K=175.7, I-J=175.7
Horz: A-B=-9.3, B-C=-9.3, C-D=-9.3, D-E=-9.3, E-F=-9.3, F-G=31.5, G-H=31.5, A-O=19.8, H-I=34.9
5) Wind Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: A-B=26.5, B-C=26.5, C-D=26.5, D-E=26.5, E-F=26.5, F-G=4.3, G-H=4.3, N-O=204.4, M-N=204.4, L-M=204.4, K-L=204.4, J-K=204.4, I-J=204.4
Horz: A-B=-31.5, B-C=-31.5, C-D=-31.5, D-E=-31.5, E-F=-31.5, F-G=9.3, G-H=9.3, A-O=-34.9, H-I=-19.8
6) 1st Wind Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: A-B=26.5, B-C=26.5, C-D=26.5, D-E=26.5, E-F=26.5, F-G=26.5, G-H=26.5, N-O=204.4, M-N=204.4, L-M=204.4, K-L=204.4, J-K=204.4, I-J=204.4
Horz: A-B=-31.5, B-C=-31.5, C-D=-31.5, D-E=-31.5, E-F=-31.5, F-G=31.5, G-H=31.5, A-O=19.8, H-I=-19.8

Job	Truss	Truss Type	Qty	Ply	HANCOCK LUMBER
11394	H	ROOF TRUSS	1	1	MAINE 42,10,10,90MPH

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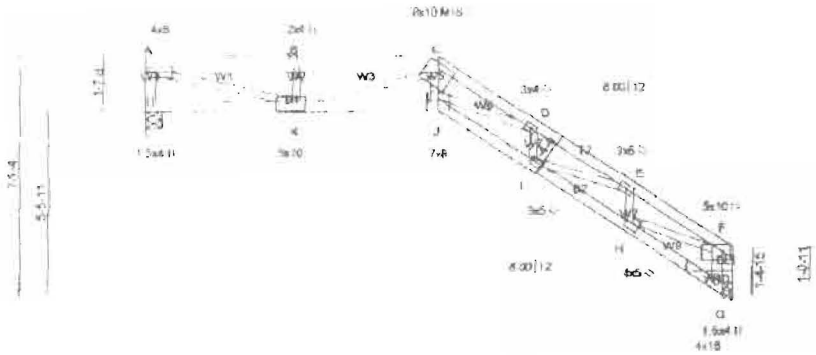
4-4-4	8-6-0	11-3-3	14-0-5	17-0-0
4-4-4	4-1-12	2-9-3	2-9-3	2-11-11



4-4-4	8-6-0	11-3-3	14-0-5	17-0-0
4-4-4	4-1-12	2-9-3	2-9-3	2-11-11

Plate Offsets (X,Y): [A:0-2-8,0-2-0], [C:0-7-8,0-4-4], [F:0-6-4,0-0-0], [G:0-1-2,0-3-8], [K:0-4-8,0-3-4]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	(in)	(loc)	l/defl	PLATES	GRIP
TCLL	42.0	Plates Increase	1.15	TC	0.58	Vert(LL)	-0.33	J	>603	M20	197/144
TCDL	10.0	Lumber Increase	1.15	BC	0.98	Vert(TL)	-0.47	J	>425	M16	127/82
BCLL	0.0	Rep Stress Incr	YES	WB	0.98	Horz(TL)	0.28	F	n/a		
BCDL	10.0	Code	BOCA/ANSI95			1st LC LL Min l/defl = 360				Weight: 68 lb	

LUMBER
TOP CHORD 2 X 6 SPF No.2 *Except*
T2 2 X 4 SPF No.2
BOT CHORD 2 X 4 SPF No.2 *Except*
B2 2 X 4 SPF 1650F 1.5E
WEBS 2 X 3 SPF No.2 *Except*
W4 2 X 4 SPF No.2, W10 2 X 4 SPF No.2
OTHERS 2 X 4 SPF No.2

BRACING
TOP CHORD Sheathed or 2-3-3 on center purlin spacing, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 on center bracing.

REACTIONS (lb/size) L=1032/0-5-8, F=1030/0-3-8
Max Horz L=-473(load case 4)
Max Uplift L=-341(load case 6), F=-404(load case 4)
Max Grav L=1075(load case 3), F=1161(load case 3)

FORCES (lb) - First Load Case Only
TOP CHORD A-L=-890, A-B=-2585, B-C=-2585, C-D=-4020, D-E=-3651, E-F=-2278, F-G=26
BOT CHORD K-L=0, J-K=3321, I-J=3634, H-I=2278, G-H=2
WEBS A-K=2697, B-K=-457, C-K=-772, C-J=2124, D-J=313, D-I=-430, E-I=1168, E-H=-805, F-H=1936

NOTES
1) This truss has been designed for the wind loads generated by 90 mph winds at 25 ft above ground level, using 5.0 psf top chord dead load and 5.0 psf bottom chord dead load, 0 mi from hurricane oceanline, on an occupancy category I, condition I enclosed building, of dimensions 45 ft by 24 ft with exposure D ASCE 7-93 per BOCA/ANSI95 If end verticals or cantilevers exist, they are exposed to wind. If porches exist, they are not exposed to wind. The lumber DOL increase is 1.33, and the plate grip increase is 1.33
2) Unbalanced snow loads have been considered for this design
3) Provide adequate drainage to prevent water ponding.
4) All plates are M20 plates unless otherwise indicated.
5) This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 3-6-0 between the bottom chord and any other members.
6) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
7) Bearing at joint(s) F considers parallel to grain value using ANSI/TPI 1-1995 angle to grain formula. Building designer should verify capacity of bearing surface.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 341 lb uplift at joint L and 404 lb uplift at joint F.
9) This truss has been designed with ANSI/TPI 1-1995 criteria.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	HANCOCK LUMBER
11384	H4	ROOF TRUSS	1	1	MAINE 42,10,10,90MPH

H4

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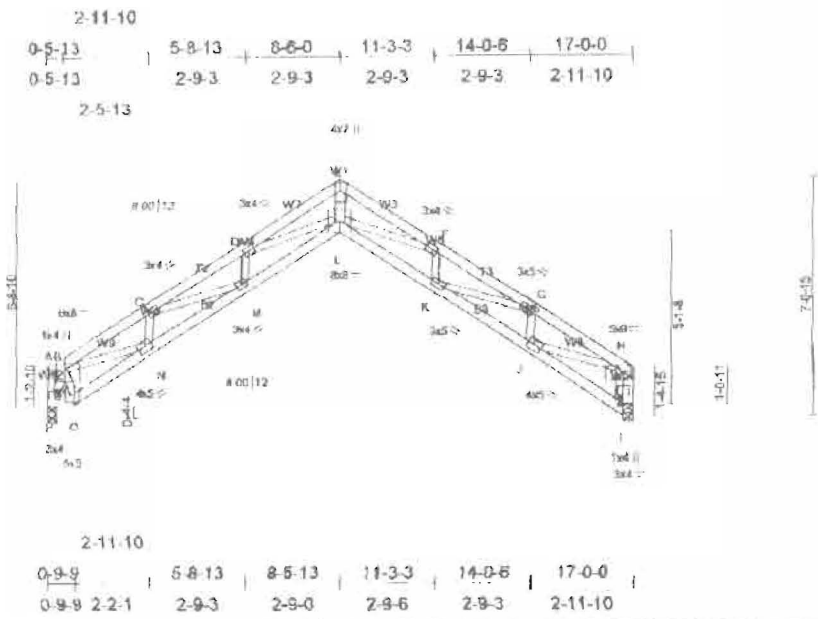

Plate Offsets (X,Y): [B:0-2-12,edge], [H:0-5-4,edge], [I:0-0-0,0-2-0], [J:0-2-0,0-2-0], [N:0-2-4,0-2-0], [O:0-3-4,0-2-4]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	(in)	(loc)	l/defl	PLATES	GRIP
TCLL	42.0	Plates Increase	1.15	TC	0.51	Vert(LL)	-0.37	L	>535	M20	197/144
TCDL	10.0	Lumber Increase	1.15	BC	0.96	Vert(TL)	-0.55	L	>362		
BCLL	0.0	Rep Stress Incr	YES	WB	0.70	Horz(TL)	0.66	H	n/a		
BCDL	10.0	Code	BOCA/ANSI95			1st LC LL Min l/defl = 360				Weight: 68 lb	

LUMBER
TOP CHORD 2 X 4 SPF No.2
BOT CHORD 2 X 4 SPF No.2
WEBS 2 X 3 SPF No.2 *Except*
W1 2 X 4 SPF 1650F 1.5E
OTHERS 2 X 4 SPF No.2

BRACING
TOP CHORD Sheathed or 2-4-13 on center purlin spacing, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-10-0 on center bracing.

REACTIONS (lb/size) P=1051/0-3-8, H=1030/0-3-8
Max Horz P=-380(load case 4)
Max Uplift P=-361(load case 6), H=-355(load case 6)

FORCES (lb) - First Load Case Only
TOP CHORD A-P=-24, A-B=0, B-C=-2390, C-D=-3752, D-E=-4176, E-F=-4107, F-G=-3612, G-H=-2217, H-I=28
BOT CHORD O-P=275, N-O=268, M-N=2390, L-M=3752, K-L=3612, J-K=2217, I-J=-1
WEBS B-P=-1062, B-O=-127, B-N=1800, C-N=-782, C-M=1161, D-M=-448, D-L=359, E-L=4307, F-L=423, F-K=-471, G-K=1187, G-J=-809, H-J=1881

NOTES
1) This truss has been designed for the wind loads generated by 90 mph winds at 25 ft above ground level, using 5.0 psf top chord dead load and 5.0 psf bottom chord dead load, 0 mi from hurricane oceanline, on an occupancy category I, condition I enclosed building, of dimensions 45 ft by 24 ft with exposure D ASCE 7-93 per BOCA/ANSI95 If end verticals or cantilevers exist, they are exposed to wind. If porches exist, they are not exposed to wind. The lumber DOL increase is 1.33, and the plate grip increase is 1.33.
2) Unbalanced snow loads have been considered for this design.
3) Provide adequate drainage to prevent water ponding.
4) All plates are M20 plates unless otherwise indicated.
5) This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 3-6-0 between the bottom chord and any other members.
6) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
7) Bearing at joint(s) H considers parallel to grain value using ANSI/TPI 1-1995 angle to grain formula. Building designer should verify capacity of bearing surface.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 361 lb uplift at joint P and 355 lb uplift at joint H.
9) This truss has been designed with ANSI/TPI 1-1995 criteria.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	HANCOCK LUMBER
11394	K	ROOF TRUSS	3	1	MAINE 42,10,10,90MPH

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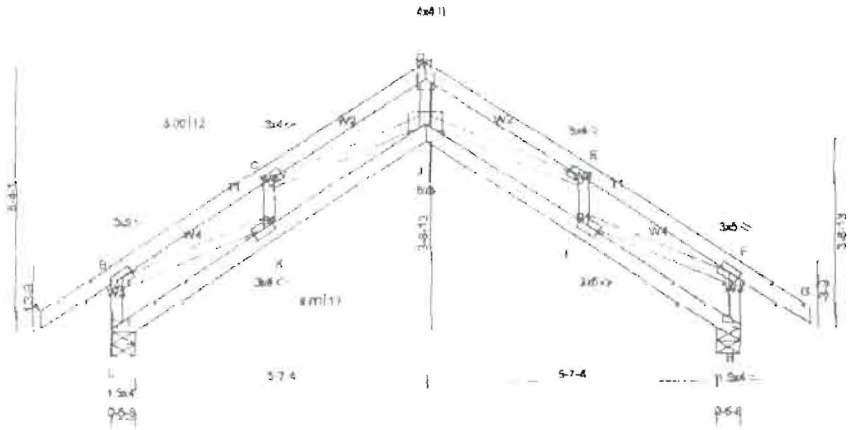
1-4-0	3-0-6	6-0-12	9-1-2	12-1-8	13-5-8
1-4-0	3-0-6	3-0-6	3-0-6	3-0-6	1-4-0



3-0-6	6-0-12	9-1-2	12-1-8
3-0-6	3-0-6	3-0-6	3-0-6

Plate Offsets (X,Y): [D:0-2-0,0-1-8], [H:0-4-0,0-0-9], [L:0-4-0,0-0-9]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	(in)	(loc)	l/defl	PLATES	GRIP
TCLL	42.0	Plates Increase	1.15	TC	0.32	Vert(LL)	-0.12	J	>999	M20	197/144
TCDL	10.0	Lumber Increase	1.15	BC	0.43	Vert(TL)	-0.18	J	>812		
BCLL	0.0	Rep Stress Incr	YES	WB	0.70	Horz(TL)	0.26	H	n/a		
BCDL	10.0	Code	BOCA/ANSI95			1st LC LL Min l/defl = 360				Weight: 52 lb	

LUMBER
TOP CHORD 2 X 4 SPF No.2
BOT CHORD 2 X 4 SPF No.2
WEBS 2 X 3 SPF No.2

BRACING
TOP CHORD Sheathed or 3-7-6 on center purlin spacing, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 on center bracing.

REACTIONS (lb/size) L=688/0-5-8, H=888/0-5-8
Max Horz L=-356(load case 4)
Max UpliftL=-389(load case 6), H=-389(load case 6)

FORCES (lb) - First Load Case Only
TOP CHORD B-L=-859, A-B=41, B-C=-1566, C-D=-2113, D-E=-2113, E-F=-1566, F-G=41, F-H=-859
BOT CHORD K-L=-0, J-K=1566, I-J=1568, H-I=-0
WEBS B-K=1340, C-K=-498, C-J=469, D-J=2029, E-J=469, E-I=-498, F-I=1340

NOTES
1) This truss has been designed for the wind loads generated by 90 mph winds at 25 ft above ground level, using 5.0 psf top chord dead load and 5.0 psf bottom chord dead load, 0 mi from hurricane oceanline, on an occupancy category I, condition I enclosed building, of dimensions 45 ft by 24 ft with exposure D ASCE 7-93 per BOCA/ANSI95 If end verticals or cantilevers exist, they are exposed to wind. If porches exist, they are not exposed to wind. The lumber DOL increase is 1.33, and the plate grip increase is 1.33
2) Unbalanced snow loads have been considered for this design.
3) All plates are M20 plates unless otherwise indicated.
4) This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 3-6-0 between the bottom chord and any other members.
5) Bearing at joint(s) L, H considers parallel to grain value using ANSI/TPI 1-1995 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 389 lb uplift at joint L and 389 lb uplift at joint H.
7) This truss has been designed with ANSI/TPI 1-1995 criteria.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	HANCOCK LUMBER
11394	L	HOWE	7	1	MAINE 42,10,10,90MPH

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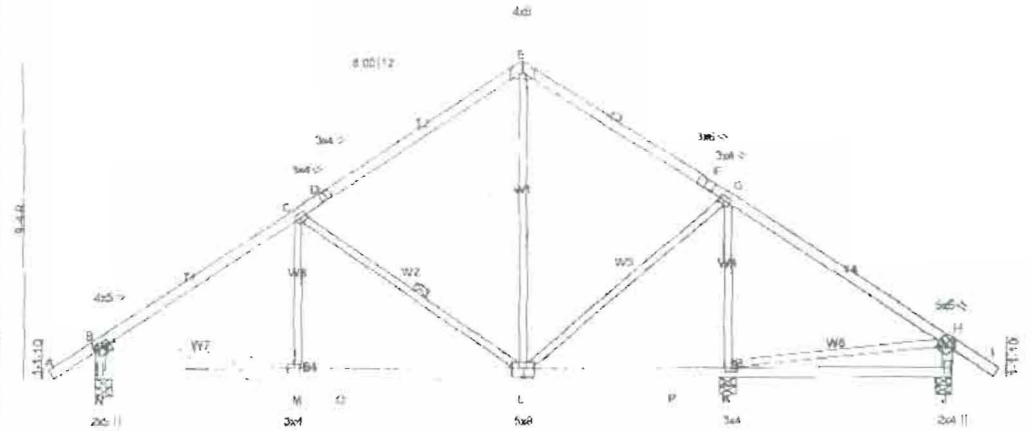
1-4-0	5-9-12	12-4-6	24-8-12	26-0-12
1-4-0	5-9-12	6-6-10	12-4-6	1-4-0



5-9-12	12-4-6	18-3-4	24-8-12
5-9-12	6-6-10	5-10-14	6-5-8

Plate Offsets (X,Y): [B:0-1-8,0-1-12], [G:0-1-12,0-1-8], [H:0-1-0,0-2-8], [L:0-4-0,0-3-0], [M:0-1-12,0-1-8]

LOADING (psf)		SPACING	2-1-8	CSI		DEFL	(in)	(loc)	l/defl	PLATES	GRIP
TCLL	42.0	Plates Increase	1.15	TC	0.77	Vert(LL)	-0.05	L-M	>999	M20	197/144
TCDL	10.0	Lumber Increase	1.15	BC	0.50	Vert(TL)	-0.10	L-M	>999		
BCLL	0.0	Rep Stress Incr	NO	WB	0.87	Horz(TL)	0.02	J	n/a		
BCDL	10.0	Code	BOCA/ANSI95	(Matrix)		1st LC LL Min l/defl = 360				Weight: 104 lb	

LUMBER
TOP CHORD 2 X 4 SPF 2100F 1.8E
BOT CHORD 2 X 4 SPF No.2
WEBS 2 X 3 SPF No.2 *Except*
W8 2 X 4 SPF No.2, W9 2 X 4 SPF No.2

BRACING
TOP CHORD Sheathed or 4-2-3 on center purlin spacing, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-1-14 on center bracing.
WEBS 1 Row at midpt C-L

REACTIONS (lb/size) N=1418/0-5-8, K=1568/0-5-8, J=562/0-5-8
Max Horz N=534(load case 5)
Max Uplift N=-563(load case 6), K=-513(load case 6), J=-315(load case 6)
Max Grav N=1518(load case 2), K=1568(load case 1), J=791(load case 3)

FORCES (lb) - First Load Case Only
TOP CHORD A-B=86, B-C=-1537, C-D=-946, D-E=-747, E-F=-599, F-G=-925, G-H=-405, H-I=86, B-N=-1355, H-J=-600
BOT CHORD M-N=264, M-O=1141, L-O=1141, L-P=176, K-P=176, J-K=317
WEBS C-M=32, E-L=133, G-K=-1354, C-L=-639, G-L=589, B-M=889, H-K=-143

NOTES
1) This truss has been designed for the wind loads generated by 90 mph winds at 25 ft above ground level, using 5.0 psf top chord dead load and 5.0 psf bottom chord dead load, 0 mi from hurricane oceanline, on an occupancy category I, condition I enclosed building, of dimensions 45 ft by 24 ft with exposure D ASCE 7-93 per BOCA/ANSI95 If end verticals or cantilevers exist, they are exposed to wind. If porches exist, they are not exposed to wind. The lumber DOL increase is 1.33, and the plate grip increase is 1.33
2) Unbalanced snow loads have been considered for this design.
3) All plates are M20 plates unless otherwise indicated.
4) This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 3-6-0 between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 563 lb uplift at joint N, 513 lb uplift at joint K and 315 lb uplift at joint J.
6) This truss has been designed with ANSI/TPI 1-1995 criteria.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	HANCOCK LUMBER
11394	L1	HOWE	5	1	MAINE 42,10,10,90MPH

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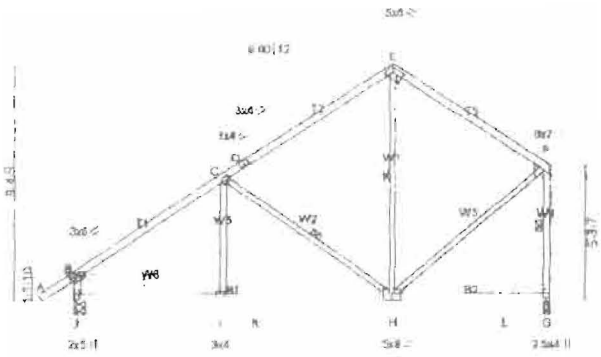
L1

1-4-0	5-9-12	12-4-6	18-6-0	24-8-12
1-4-0	5-9-12	6-6-10	6-1-10	6-2-12



5-9-12	12-4-6	18-6-0	24-8-12
5-9-12	6-6-10	6-1-10	6-2-12

Plate Offsets (X,Y): [B:0-2-0,0-1-8], [E:0-5-0,0-2-0], [H:0-4-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	(in)	(loc)	l/defl	PLATES	GRIP
TCLL	42.0	Plates Increase	1.15	TC	0.87	Vert(LL)	-0.05	H-I	>999	M20	197/144
TCDL	10.0	Lumber Increase	1.15	BC	0.48	Vert(TL)	-0.09	H-I	>999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.96	Horz(TL)	-0.02	G	n/a		
BCDL	10.0	Code	BOCA/ANSI95	(Matrix)		1st LC LL Min l/defl = 360				Weight: 82 lb	

LUMBER
TOP CHORD 2 X 4 SPF No.2 *Except*
T1 2 X 4 SPF 1650F 1.5E
BOT CHORD 2 X 4 SPF No.2
WEBS 2 X 3 SPF No.2 *Except*
W7 2 X 4 SPF No.2, W4 2 X 4 SPF No.2

BRACING
TOP CHORD Sheathed or 4-5-7 on center purlin spacing, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-7-11 on center bracing.
WEBS 1 Row at midpt E-H, C-H, F-G

REACTIONS (lb/size) J=1316/0-5-8, G=1201/0-3-8
Max Horz J=798(load case 5)
Max Uplift J=-454(load case 6), G=-459(load case 6)
Max Grav J=1434(load case 2), G=1201(load case 1)

FORCES (lb) - First Load Case Only
TOP CHORD A-B=81, B-C=-1418, C-D=-861, D-E=-677, E-F=-831, B-J=-1257, F-G=-1063
BOT CHORD I-J=248, I-K=1050, H-K=1050, H-L=55, G-L=55
WEBS C-I=34, E-H=56, C-H=-598, F-H=655, B-I=812

NOTES
1) This truss has been designed for the wind loads generated by 90 mph winds at 25 ft above ground level, using 5.0 psf top chord dead load and 5.0 psf bottom chord dead load, 0 mi from hurricane oceanline, on an occupancy category I, condition I enclosed building, of dimensions 45 ft by 24 ft with exposure D ASCE 7-93 per BOCA/ANSI95 If end verticals or cantilevers exist, they are exposed to wind. If porches exist, they are not exposed to wind. The lumber DOL increase is 1.33, and the plate grip increase is 1.33
2) Unbalanced snow loads have been considered for this design.
3) All plates are M20 plates unless otherwise indicated.
4) This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 3-6-0 between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 454 lb uplift at joint J and 459 lb uplift at joint G.
6) This truss has been designed with ANSI/TPI 1-1995 criteria.

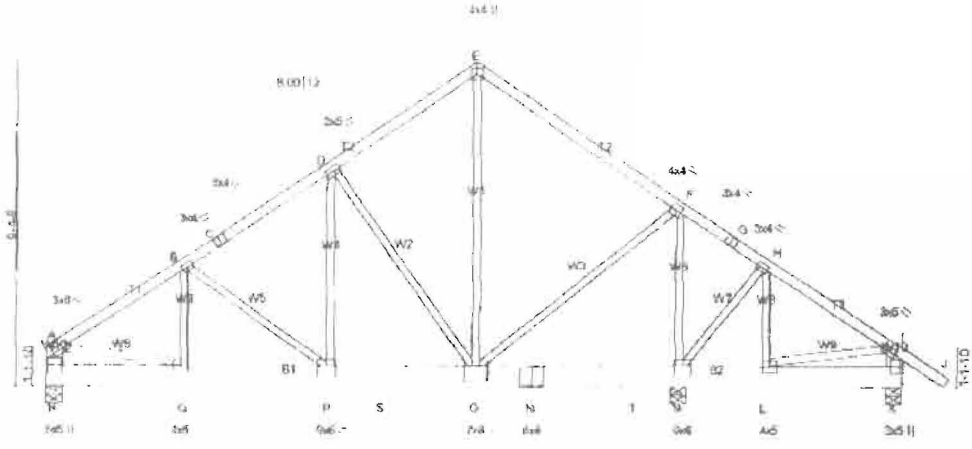
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	HANCOCK LUMBER
11394	L2	DBL. HOWE	1	3	MAINE 42,10,10,90MPH

P.L.C. WOOD COMPONENT, ST-AUGUSTIN 4.0-32 s Feb 18 1999 MiTek Industries, Inc. Wed May 10 14:21:46 2000 Page 1

L2

3-11-5	8-1-13	12-4-6	16-6-15	20-9-7	24-8-12	28-0-12
3-11-5	4-2-9	4-2-9	4-2-9	4-2-9	3-11-5	1-4-0



3-11-5	8-1-13	12-4-6	16-6-15	18-0-8	20-9-7	24-8-12
3-11-5	4-2-9	4-2-9	4-2-9	1-5-9	2-8-15	3-11-5

Plate Offsets (X,Y): [A:0-2-8,0-1-8], [D:0-1-12,0-1-8], [F:0-1-12,0-2-0], [I:0-1-8,0-1-8], [M:0-3-0,0-3-12], [O:0-4-0,0-5-4], [P:0-3-0,0-3-12]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	(in)	(loc)	l/defl	PLATES	GRIP
TCLL	42.0	Plates Increase	1.15	TC	0.51	Vert(LL)	-0.08	P-Q	>999	M20	197/144
TCDL	10.0	Lumber Increase	1.15	BC	0.51	Vert(TL)	-0.10	P-Q	>999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.55	Horz(TL)	0.01	K	n/a		
BCDL	10.0	Code	BOCA/ANSI95	(Matrix)		1st LC LL Min l/defl = 360				Weight: 421 lb	

LUMBER
TOP CHORD 2 X 4 SPF 2100F 1.8E
BOT CHORD 2 X 8 SPF No.2
WEBS 2 X 3 SPF No.2 "Except"
W10 2 X 6 SPF No.2, W10 2 X 6 SPF No.2

BRACING
TOP CHORD Sheathed or 6-0-0 on center purlin spacing, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 on center bracing, Except:
8-0-0 on center bracing: M-O.

REACTIONS (lb/size) R=5724/0-5-8, M=8337/0-5-8, K=1835/0-5-8
Max Horz R=-549(load case 4)
Max Uplift R=-3086(load case 6), M=-4812(load case 6), K=-1140(load case 6)
Max Grav R=6373(load case 2), M=8998(load case 3), K=2119(load case 3)

FORCES (lb) - First Load Case Only
TOP CHORD A-B=-6344, B-C=-5186, C-D=-5072, D-E=-3230, E-F=-3297, F-G=102, G-H=-43, H-I=-765, I-J=85, A-R=-4408, I-K=-558
BOT CHORD Q-R=1892, P-Q=5162, P-S=4220, O-S=4220, N-O=-3, N-T=-3, M-T=-3, L-M=544, K-L=679
WEBS B-Q=1023, D-P=3002, E-O=2890, F-M=-4405, H-L=809, B-P=-1195, D-O=-2835, F-O=3410, H-M=-898, A-Q=3348, I-L=-139

NOTES
1) 3-ply truss to be connected together with 10d Common(.148"X3") Nails as follows: Top chords connected with 2 row(s) at 0-9-0 on center. Bottom chords connected with 2 row(s) at 0-5-0 on center. Webs connected as follows: 2 X 3 - 1 row(s) at 0-9-0 on center.
2) This truss has been designed for the wind loads generated by 90 mph winds at 25 ft above ground level, using 5.0 psf top chord dead load and 5.0 psf bottom chord dead load, 0 mi from hurricane oceanline, on an occupancy category I, condition I enclosed building, of dimensions 45 ft by 24 ft with exposure D ASCE 7-93 per BOCA/ANSI95 If end verticals or cantilevers exist, they are exposed to wind. If porches exist, the right is exposed and the left is not exposed. The lumber DOL increase is 1.33, and the plate grip increase is 1.33
3) Unbalanced snow loads have been considered for this design.
4) All plates are M20 plates unless otherwise indicated.
5) This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 3-6-0 between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 3086 lb uplift at joint R, 4812 lb uplift at joint M and 1140 lb uplift at joint K.
7) This truss has been designed with ANSI/TPI 1-1995 criteria.
8) Load case(s) 1, 2, 3, 4, 5, 6 has been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S)

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	HANCOCK LUMBER
11394	L2	DBL. HOWE	1	3	MAINE 42,10,10,90MPH

LOAD CASE(S)

1) Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: Q-R=-540.0, P-Q=-540.0, P-S=-580.0, O-S=-540.0, N-O=-540.0, N-T=-540.0, M-T=-580.0, L-M=-540.0, K-L=-540.0, A-B=-104.0, B-C=-104.0, C-D=-104.0, D-E=-104.0, E-F=-104.0, F-G=-104.0, G-H=-104.0, H-I=-104.0, I-J=-104.0

2) Unbal.Snow Left: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: Q-R=-606.6, P-Q=-606.6, P-S=-646.6, O-S=-606.6, N-O=-606.6, N-T=-606.6, M-T=-646.6, L-M=-606.6, K-L=-606.6, A-B=-125.0, B-C=-125.0, C-D=-125.0, D-E=-125.0, E-F=-20.0, F-G=-20.0, G-H=-20.0, H-I=-20.0, I-J=-20.0

3) Unbal Snow Right: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: Q-R=-606.6, P-Q=-606.6, P-S=-646.6, O-S=-606.6, N-O=-606.6, N-T=-606.6, M-T=-646.6, L-M=-606.6, K-L=-606.6, A-B=-20.0, B-C=-20.0, C-D=-20.0, D-E=-20.0, E-F=-125.0, F-G=-125.0, G-H=-125.0, H-I=-125.0, I-J=-125.0

4) Wind Left: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: Q-R=299.7, P-Q=299.7, P-S=299.7, O-S=299.7, N-O=299.7, N-T=299.7, M-T=299.7, L-M=354.4, K-L=354.4, A-B=8.6, B-C=8.6, C-D=8.6, D-E=8.6, E-F=53.0, F-G=53.0, G-H=53.0, H-I=53.0, I-J=92.5
   Horz: A-B=-18.6, B-C=-18.6, C-D=-18.6, D-E=-18.6, E-F=63.0, F-G=63.0, G-H=63.0, H-I=63.0, I-J=102.5, A-R=39.5, I-K=69.8

5) Wind Right: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: Q-R=299.7, P-Q=299.7, P-S=299.7, O-S=299.7, N-O=299.7, N-T=299.7, M-T=299.7, L-M=354.4, K-L=354.4, A-B=53.0, B-C=53.0, C-D=53.0, D-E=53.0, E-F=8.6, F-G=8.6, G-H=8.6, H-I=8.6, I-J=48.2
   Horz: A-B=-63.0, B-C=-63.0, C-D=-63.0, D-E=-63.0, E-F=-18.6, F-G=-18.6, G-H=-18.6, H-I=-18.6, I-J=-58.2, A-R=-69.8, I-K=-39.5

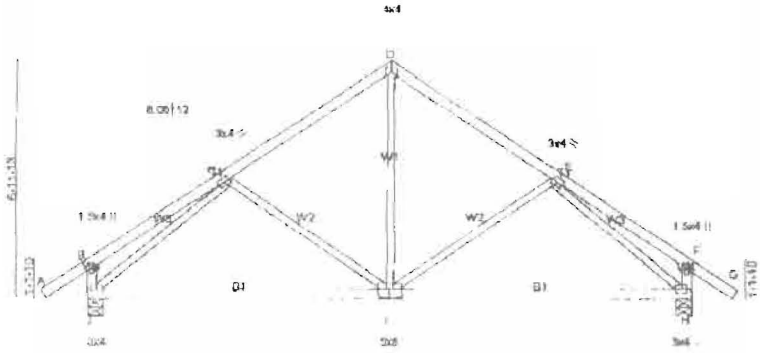
6) 1st Wind Parallel: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: Q-R=299.7, P-Q=299.7, P-S=299.7, O-S=299.7, N-O=299.7, N-T=299.7, M-T=299.7, L-M=354.4, K-L=354.4, A-B=53.0, B-C=53.0, C-D=53.0, D-E=53.0, E-F=53.0, F-G=53.0, G-H=53.0, H-I=53.0, I-J=92.5
   Horz: A-B=-63.0, B-C=-63.0, C-D=-63.0, D-E=-63.0, E-F=63.0, F-G=63.0, G-H=63.0, H-I=63.0, I-J=102.5, A-R=39.5, I-K=-39.5

Job	Truss	Truss Type	Qty	Ply	HANCOCK LUMBER
11394	N	QUEENPOST	8	1	MAINE 42,10,10,90MPH

P.L.C. WOOD COMPONENT ST-AUGUSTIN 4.0-32 s Feb 18 1999 MiTek Industries, Inc. Wed May 10 14:21:57 2000 Page 1

N V

1-4-0	4-0-3	8-9-4	13-6-5	17-5-8	18-10-8
1-4-0	4-0-3	4-9-1	4-9-1	4-0-3	1-4-0



8-9-4	17-6-8
8-9-4	8-8-4

Plate Offsets (X,Y): [1:0-4-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	(in)	(loc)	l/defl	PLATES	GRIP
TCLL	42.0	Plates Increase	1.15	TC	0.60	Vert(LL)	-0.03	I	>999	M20	197/144
TCDL	10.0	Lumber Increase	1.15	BC	0.63	Vert(TL)	-0.19	I-J	>999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.76	Horz(TL)	0.02	H	n/a		
BCDL	10.0	Code	BOCA/ANSI95			1st LC LL Min l/defl = 360				Weight: 72 lb	

LUMBER
TOP CHORD 2 X 4 SPF No.2
BOT CHORD 2 X 4 SPF No.2
WEBS 2 X 3 SPF No.2 *Except*
W4 2 X 4 SPF No.2, W4 2 X 4 SPF No.2

BRACING
TOP CHORD *Sheathed or 5-2-12 on center purlin spacing, except end verticals.*
BOT CHORD Rigid ceiling directly applied or 8-8-9 on center bracing.

REACTIONS (lb/size) H=1215/0-5-8, J=1215/0-5-8
Max Horz J=-396(load case 4)
Max Uplift H=-500(load case 6), J=-500(load case 6)

FORCES (lb) - First Load Case Only
TOP CHORD A-B=40, B-C=-0, C-D=-832, D-E=-832, E-F=0, F-G=40, B-J=-340, F-H=-340
BOT CHORD I-J=866, H-I=866
WEBS C-I=-212, D-I=415, E-I=-212, C-J=-1172, E-H=-1172

NOTES
1) This truss has been designed for the wind loads generated by 90 mph winds at 25 ft above ground level, using 5.0 psf top chord dead load and 5.0 psf bottom chord dead load, 0 mi from hurricane oceanline, on an occupancy category I, condition I enclosed building, of dimensions 45 ft by 24 ft with exposure D ASCE 7-93 per BOCA/ANSI95 If end verticals or cantilevers exist, they are exposed to wind. If porches exist, they are not exposed to wind. The lumber DOL increase is 1.33, and the plate grip increase is 1.33
2) Unbalanced snow loads have been considered for this design.
3) All plates are M20 plates unless otherwise indicated.
4) This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 3-6-0 between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 500 lb uplift at joint H and 500 lb uplift at joint J.
6) This truss has been designed with ANSI/TPI 1-1995 criteria.

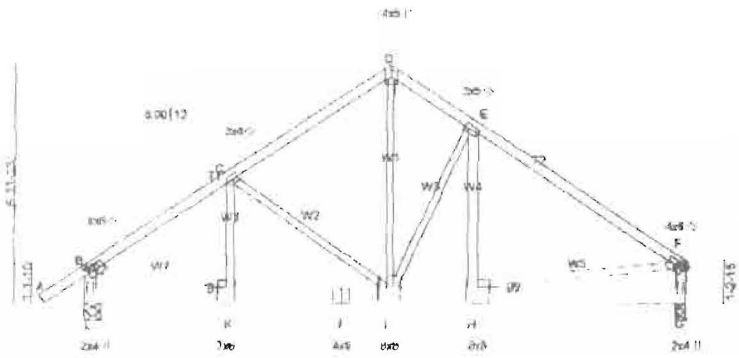
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	HANCOCK LUMBER
11394	N3	QUEENPOST	1	3	MAINE 42,10,10,90MPH

P.L.C. WOOD COMPONENT, ST AUGUSTIN 4.0-32 s Feb 18 1999 MiTek Industries, Inc. Wed May 10 14:22:03 2000 Page 1

N3

1-4-0	4-1-11	8-9-4	11-2-3	17-4-8	17-6-8
1-4-0	4-1-11	4-7-9	2-4-15	6-2-5	0-2-0



	8-9-4	11-2-3	17-4-8	17-6-8
	8-9-4	2-4-15	6-2-5	0-2-0

Plate Offsets (X,Y): [B:0-2-12,0-2-0], [C:0-1-12,0-1-8], [D:0-2-0,0-2-4], [E:0-1-4,0-1-8], [F:0-2-12,0-2-0], [H:0-4-0,0-5-0], [I:0-4-0,0-4-4], [K:0-3-0,0-4-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	(in)	(loc)	l/defl	PLATES	GRIP
TCLL	42.0	Plates Increase	1.15	TC	0.55	Vert(LL)	-0.11	I-K	>999	M20	197/144
TCDL	10.0	Lumber Increase	1.15	BC	0.89	Vert(TL)	-0.16	I-K	>999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.82	Horz(TL)	0.02	G	n/a		
BCDL	10.0	Code	BOCA/ANSI95			1st LC LL Min l/defl = 360				Weight: 263 lb	

LUMBER
TOP CHORD 2 X 4 SPF No.2 *Except*
T2 2 X 4 SPF 1650F 1.5E
BOT CHORD 2 X 6 SPF 1650F 1.5E
WEBS 2 X 3 SPF No.2 *Except*
W9 2 X 4 SPF No.2, W8 2 X 4 SPF No.2
W4 2 X 4 SPF No.2

BRACING
TOP CHORD Sheathed or 6-0-0 on center purlin spacing, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 on center bracing.

REACTIONS (lb/size) G=6527/0-3-8, I=8969/0-5-8
Max Horz I=448(load case 5)
Max Uplift G=-2168(load case 6), I=-2808(load case 6)
Max Grav G=6234(load case 3), I=7934(load case 2)

FORCES (lb) - First Load Case Only
TOP CHORD A-B=40, B-C=-7392, C-D=-5826, D-E=-5826, E-F=-7533, B-I=-5728, F-G=-5486
BOT CHORD K-L=0, J-K=6150, I-J=6150, H-I=6267, G-H=0
WEBS C-I=-1632, D-I=6097, E-I=-3254, B-K=6281, F-H=6343, E-H=3435, C-K=1403

NOTES
1) 3-ply truss to be connected together with 10d Common(.148"x3") Nails as follows: Top chords connected with 1 row(s) at 0-9-0 on center. Bottom chords connected with 1 row(s) at 0-9-0 on center. Webs connected as follows: 2 X 3 - 1 row(s) at 0-9-0 on center, 2 X 4 - 1 row(s) at 0-9-0 on center.
2) Special connection required to distribute bottom chord loads equally between all plies.
3) This truss has been designed for the wind loads generated by 90 mph winds at 25 ft above ground level, using 5.0 psf top chord dead load and 5.0 psf bottom chord dead load, 0 mi from hurricane oceanline, on an occupancy category I, condition I enclosed building, of dimensions 45 ft by 24 ft with exposure D ASCE 7-93 per BOCA/ANSI95 If end verticals or cantilevers exist, they are exposed to wind. If porches exist, they are not exposed to wind. The lumber DOL increase is 1.33, and the plate grip increase is 1.33
4) Unbalanced snow loads have been considered for this design.
5) Except as shown below, special connection(s) required to support concentrated load(s). Design of connection(s) is delegated to the building designer.
6) All plates are M20 plates unless otherwise indicated.
7) This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 3-6-0 between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2168 lb uplift at joint G and 2808 lb uplift at joint L.
9) This truss has been designed with ANSI/TPI 1-1995 criteria.
10) Load case(s) 1, 2, 3, 4, 5, 6 has been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	HANCOCK LUMBER
11394	N3	QUEENPOST	1	3	MAINE 42,10,10,90MPH

LOAD CASE(S)

1) Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: K-L=-621.0, J-K=-621.0, I-J=-621.0, H-I=-621.0, G-H=-20.0, A-B=-104.0, B-C=-104.0, C-D=-104.0, D-E=-104.0, E-F=-104.0
   Concentrated Loads (lb)
      Vert: H=-3599
2) Unbal.Snow-Left: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: K-L=-722.8, J-K=-722.8, I-J=-722.8, H-I=-722.8, G-H=-20.0, A-B=-125.0, B-C=-125.0, C-D=-125.0, D-E=-20.0, E-F=-20.0
   Concentrated Loads (lb)
      Vert: H=-4209
3) Unbal.Snow-Right: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: K-L=-722.8, J-K=-722.8, I-J=-722.8, H-I=-722.8, G-H=-20.0, A-B=-20.0, B-C=-20.0, C-D=-20.0, D-E=-125.0, E-F=-125.0
   Concentrated Loads (lb)
      Vert: H=-4209
4) Wind Left: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: K-L=198.4, J-K=198.4, I-J=198.4, H-I=198.4, G-H=-10.0, A-B=48.2, B-C=8.6, C-D=8.6, D-E=53.0, E-F=53.0
      Horz: A-B=-58.2, B-C=-18.6, C-D=-18.6, D-E=63.0, E-F=63.0, B-L=39.5, F-G=69.8
   Concentrated Loads (lb)
      Vert: H=1248
5) Wind Right: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: K-L=231.5, J-K=231.5, I-J=231.5, H-I=231.5, G-H=-10.0, A-B=92.5, B-C=53.0, C-D=53.0, D-E=8.6, E-F=8.6
      Horz: A-B=-102.5, B-C=-63.0, C-D=-63.0, D-E=18.6, E-F=18.6, B-L=-69.8, F-G=-39.5
   Concentrated Loads (lb)
      Vert: H=1446
6) 1st Wind Parallel: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: K-L=231.5, J-K=231.5, I-J=231.5, H-I=231.5, G-H=-10.0, A-B=92.5, B-C=53.0, C-D=53.0, D-E=53.0, E-F=53.0
      Horz: A-B=-102.5, B-C=-63.0, C-D=-63.0, D-E=63.0, E-F=63.0, B-L=39.5, F-G=-39.5
   Concentrated Loads (lb)
      Vert: H=1446

83-E-A-22 0-35 #00

THIS IS NOT A PERMIT/CONSTRUCTION CANNOT COMMENCE UNTIL THE PERMIT IS ISSUED

Minor/Minor Site Review, Building or Use Permit Pre-Application

Detached Single Family Dwelling

In the interest of processing your application in the quickest possible manner, please complete the Information below for a Building or Use Permit.

NOTEIf 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: DIAMOND COVE LOT 22		
Total Square Footage of Proposed Structure 2200 ☐	Square Footage of Lot 51,779 ☐ +/-	
Tax Assessor's Chart, Block & Lot Number Chart# 083 Block# E-A Lot# 022	Owner: EARL R AND JOYCE M. HEIN	Telephone#: ★ 612/935-0183
Lessee/Buyer's Name (If Applicable)	Owner's/Purchaser/Lessee Address:	Cost Of Work: $ Fee: $ 300 —
Proposed Project Description:(Please be as specific as possible) SINGLE FAMILY / 2 BEDROOM. (PHASE I SITE PLAN ONLY) (CONST. PHASE II LATER)		
Contractor's Name, Address & Telephone NA		Rec'd By: Gina

Separate permits are required for Internal & External Plumbing, HVAC and Electrical installation.

•All construction must be conducted in compliance with the 1996 B.O.C.A. Building Code as amended by Section 6-Art II.

•All plumbing must be conducted in compliance with the State of Maine Plumbing Code.

•All Electrical Installation must comply with the 1996 National Electrical Code as amended by Section 6-Art III.

•HVAC(Heating, Ventilation and Air Conditioning) installation must comply with the 1993 BOCA Mechanical Code.

You must Include the following with you application:

1) A Copy of Your Deed or Purchase and Sale Agreement
2) A Copy of your Construction Contract, if available
3) A Plot Plan (Sample Attached)

A "minor/minor" site plan review is required prior to permit issuance. The Site plan must be prepared and sealed by a registered land surveyor **(2 copies are required)**. A complete plot plan (Site Plan)includes:

- The shape and dimension of the lot, all existing buildings (if any), the proposed structure and the distance from the actual property lines. Structures include decks porches, a bow windows cantilever sections and roof overhangs, as well as, sheds, pools, garages and any other accessory structures.
- Scale and North arrow; Zoning District & Setbacks
- First Floor sill elevation (based on mean sea level datum);
- Location and dimensions of parking areas and driveways;
- Location and size of both existing utilities in the street and the proposed utilities serving the building;
- Location of areas on the site that will be used to dispose of surface water.
- Existing and proposed grade contours

4) Building Plans (Sample Attached)

A complete set of construction drawings showing all of the following elements of construction:

- Cross Sections w/Framing details (including porches, decks w/ railings, and accessory structures)
- Floor Plans & Elevations
- Window and door schedules
- Foundation plans with required drainage and dampproofing
- Electrical and plumbing layout. Mechanical drawings for any specialized equipment such as furnaces, chimneys, gas equipment, HVAC equipment (air handling) or other types of work that may require special review must be included.

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/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:** 14 June 1999.

Site Review Fee: $300.00/Building Permit Fee: $30.00 for the 1st $1000.cost plus $6.00 per $1,000.00 construction cost thereafter.

CITY OF PORTLAND, MAINE
DEVELOPMENT REVIEW APPLICATION
PLANNING DEPARTMENT PROCESSING FORM

19990173
I. D. Number

Klein, Earl
Applicant

12/15/99
Application Date

Diamond Cove Lot 22, Diamond Island, ME
Applicant's Mailing Address

Diamond Cove Phase 1- lot #22
Project Name/Description

Consultant/Agent

Diamond Ave, Great Diamond Island, Diamond Island Me.
Address of Proposed Site

612-935-0183
Applicant or Agent Daytime Telephone, Fax

083-EA-022
Assessor's Reference: Chart-Block-Lot

Proposed Development (check all that apply): ☐ New Building ☐ Building Addition ☐ Change Of Use ☐ Residential
☐ Office ☐ Retail ☐ Manufacturing ☐ Warehouse/Distribution ☐ Parking Lot ☒ Other (specify) site plan only

2,200	51,779	IR-1
Proposed Building square Feet or # of Units	Acreage of Site	Zoning

Check Review Required:

☒ Site Plan (major/minor) ☐ Subdivision # of lots ☐ PAD Review ☐ 14-403 Streets Review
☐ Flood Hazard ☐ Shoreland ☐ HistoricPreservation ☐ DEP Local Certification
☐ Zoning Conditional Use (ZBA/PB) ☐ Zoning Variance ☐ Other

Fees Paid: Site Plan $300.00 Subdivision Engineer Review Date: 12/14/99

Inspections Approval Status:

Reviewer Marge Schmuckal

☐ Approved ☒ Approved w/Conditions see attached ☐ Denied

Approval Date 4/19/00 Approval Expiration Extension to ☒ Additional Sheets Attached

☐ Condition Compliance signature date

Performance Guarantee ☐ Required* ☐ Not Required

* No building permit may be issued until a performance guarantee has been submitted as indicated below

☐ Performance Guarantee Accepted	date	amount	expiration date
☐ Inspection Fee Paid	date	amount	
☐ Building Permit Issued	date		
☐ Performance Guarantee Reduced	date	remaining balance	signature
☐ Temporary Certificate of Occupancy	date	☐ Conditions (See Attached)	
☐ Final Inspection	date	signature	
☐ Certificate Of Occupancy	date		
☐ Performance Guarantee Released	date	signature	
☐ Defect Guarantee Submitted	submitted date	amount	expiration date
☐ Defect Guarantee Released			

CITY OF PORTLAND, MAINE
DEVELOPMENT REVIEW APPLICATION
PLANNING DEPARTMENT PROCESSING FORM

19990173
I. D. Number

Hein, Earl
Applicant

12/15/99
Application Date

Diamond Cove Lot 22, Diamond Island, ME
Applicant's Mailing Address

Diamond Cove Phase 1only
Project Name/Description

Consultant/Agent

Diamond Ave, Great Diamond Island, Diamond Island Me.
Address of Proposed Site

612-935-0183
Applicant or Agent Daytime Telephone, Fax

083-EA-022
Assessor's Reference: Chart-Block-Lot

Proposed Development (check all that apply): ☐ New Building ☐ Building Addition ☐ Change Of Use ☐ Residential
☐ Office ☐ Retail ☐ Manufacturing ☐ Warehouse/Distribution ☐ Parking Lot ☐ Other (specify) site plan only

2,200
Proposed Building square Feet or # of Units

51,779
Acreage of Site

Zoning

Check Review Required:

☐ Site Plan (major/minor)
☐ Subdivision # of lots
☐ PAD Review
☐ 14-403 Streets Review
☐ Flood Hazard
☐ Shoreland
☐ HistoricPreservation
☐ DEP Local Certification
☐ Zoning Conditional Use (ZBA/PB)
☐ Zoning Variance
☐ Other

Fees Paid: Site Plan $300.00 Subdivision Engineer Review Date: 12/14/99

DRC Approval Status:

Reviewer Steve Bushey

☐ **Approved** ☐ **Approved w/Conditions** see attached ☐ **Denied**

Approval Date 1/21/00 Approval Expiration 1/21/01 Extension to ☐ Additional Sheets Attached

☐ Condition Compliance Steve Bushey (signature) 1/21/00 (date)

Performance Guarantee ☐ **Required*** ☐ **Not Required**

* No building permit may be issued until a performance guarantee has been submitted as indicated below

☐ Performance Guarantee Accepted	date	amount	expiration date
☐ Inspection Fee Paid	date	amount	
☐ Building Permit	date		
☐ Performance Guarantee Reduced	date	remaining balance	signature
☐ Temporary Certificate Of Occupancy	date	☐ Conditions (See Attached)	
☐ Final Inspection	date	signature	
☐ Certificate Of Occupancy	date		
☐ Performance Guarantee Released	date	signature	
☐ Defect Guarantee Submitted	submitted date	amount	expiration date
☐ Defect Guarantee Released			

CITY OF PORTLAND, MAINE
DEVELOPMENT REVIEW APPLICATION
PLANNING DEPARTMENT PROCESSING FORM
ADDENDUM

19990173
I. D. Number

Hein, Earl
Applicant

12/15/99
Application Date

Diamond Cove Lot 22, Diamond Island, ME
Applicant's Mailing Address

Diamond Cove Phase 1only
Project Name/Description

Diamond Ave, Great Diamond Island, Diamond Island Me.
Address of Proposed Site

Consultant/Agent

612-935-0183
Applicant or Agent Daytime Telephone, Fax

083-EA-022
Assessor's Reference: Chart-Block-Lot

DRC Conditions of Approval

Approved Subject to Site Plan Review (Addendum) Conditions of Approval:

All damage to sidewalk, curb, street, or public utilities shall be repaired to City of Portland standards prior to issuance of a Certificate of Occupancy.

Two (2) City of Portland approved species and size trees must be planted on your street frontage prior to issuance of a Certificate of Occupancy.

Your new street address is now 98 Seal Cove , the number must be displayed on the street frontage of your house prior to issuance of a Certificate of Occupancy.

The Development Review Coordinator (874-8300 ext.8722) must be notified five (5) working days prior to date required for final site inspection. Please make allowances for completion of site plan requirements determined to be incomplete or defective during the inspection. This is essential as all site plan requirements must be completed and approved by the Development Review Coordinator prior to issuance of a Certificate of Occupancy. Please schedule any property closing with these requirements in mind.

Show all utility connections: water, sanitary, sewer, storm drain, electric, telephone, cable.

A sewer permit is required for you project. Please contact Carol Merritt at 874-8300, ext . 8828. The Wastewater and Drainage section of Public Works must be notified five (5) working days prior to sewer connection to schedule an inspector for your site.

A street opening permit(s) is required for your site. Please contact Carol Merritt ay 874-8300, ext. 8828. (Only excavators licensed by the City of Portland are eligible.)

As-built record information for sewer and stormwater service connections must be submitted to Public Works Engineering Section (55 Portland Street) and approved prior to issuance of a Certificate of Occupancy.

The building contractor shall check the subdivision recording plat for pre-determined first floor elevation and establish the first floor elevation (FFE) and sill elevation (SE) to be set above the finish street/curb elevation to allow for positive drainage away from entire footprint of building.

The site contractor shall establish finish grades at the foundation, bulkhead and basement windows to be in conformance with the first floor elevation (FFE) and sill elevation (SE) set by the building contractor to provide for positive drainage away from entire footprint of building.

The Development Review Coordinator reserves the right to require additional lot grading or other drainage improvements as necessary due to field conditions.

The applicant shall be responsible for all installation and maintenance of necessary erosion control measures. The applicant shall minimize and be responsible to sweep all tracking of mud onto City streets.

Planning Conditions of Approval

Inspections Conditions of Approval

Fire Conditions of Approval

CITY OF PORTLAND, MAINE
DEVELOPMENT REVIEW APPLICATION
PLANNING DEPARTMENT PROCESSING FORM
ADDENDUM

19990173
I. D. Number

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083-EA-022
Assessor's Reference: Chart-Block-Lot

Albert Frick Associates, Inc.
Soil Scientists & Site Evaluators
95A County Road Gorham, Maine 04038
(207) 839-5563 FAX (207) 839-5564

Albert Frick SS, SE
James Logan SS, SE
Matthew Logan SE

November 18, 1998

Rob Meyer
Diamond Cove
Administrative Offices General Delivery
Great Diamond Island, ME 04109

Re: Diamond Cove, Phase II, Great Diamond Island

Dear Rob:

I did a preliminary soil evaluation on the above-referenced property on October 1, 1998. The purpose of this investigation was to determine the suitability of the site for on-site subsurface wastewater disposal.

Enclosed are sketch plans illustrating the location of the test pits excavated along with the soil profile descriptions.

The soil is suitable, as defined by the State of Maine Subsurface Wastewater Disposal Rules, in the vicinity of TP 101, 102, 103, 104, 105, 111, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 134 and 135. Please note that TP 106, 107, 108, 109, 110, 112, 113, 114, 115, 116, 117, 130, 131, 132, 133, 136, 137, 138, 139, 140, 141, 142, 143, 144 and 145 are old *filled* sites that were filled during the construction for the U.S. Military forts prior to World War II. Section 605.0 of the State of Maine Subsurface Wastewater Disposal Rules require that the Local Plumbing Inspector approve the site as specified below:

> *605.2 Fill considered equivalent to original soil: The plumbing inspector shall review and approve the use of existing fill soil as the equivalent to original soil for design purposes when the site evaluator demonstrates that:*
>
> *a) The fill material is of suitable texture, consistency, depth, extent and structure to be equivalent of original soil for design purposes, and,*
>
> *b) The fill has been in place since July 1, 1974, and,*
>
> *c) The area of the fill soils include, at a minimum, the disposal field and its extensions, and,*
>
> *d) The texture of fill is sandy loam or coarser, and the fill is relatively free of foreign material including organic material, and,*
>
> *e) The fill is placed in compliance with all pertinent regulations.*

It is my opinion that the fill conditions comply with the required standards and are worthy of approval by the Local Plumbing Inspector.

A complete subsurface wastewater disposal system design (HHE-200 form) is needed for a permit to install the system once the building location, building size, and site development is conceptualized.

If you have any questions or concerns regarding this property, please do not hesitate to contact our office.

Respectfully,

Albert Frick

Albert Frick

AF/nd

Enc

Albert Frick Associates, Inc.
Soil Scientists & Site Evaluators

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services
Division of Health Engineering

Town, City, Plantation	Street, Road Subdivision	Owner's Name
PORTLAND, LITTLE DIAMOND	DIAMOND COVE	

SOIL DESCRIPTION AND CLASSIFICATION (Location of Observation Holes Shown Above)

Observation Hole 113 ☐ Test Pit ■ Boring
____" Depth of Organic Horizon Above Mineral Soil

Depth (inches)	Texture	Consistency	Color	Mottling
0–10	SANDY LOAM (FILL)	FRIABLE	DARK BROWN	
10–20				
20	BEDROCK			

Soil Classification		Slope	Limiting Factor	
11	A	____/	22"	☐ Ground Water ☐ Restrictive Layer ■ Bedrock ☐ Pit Depth
Profile	Condition			

Observation Hole 114 ☐ Test Pit ■ Boring
____" Depth of Organic Horizon Above Mineral Soil

Depth (inches)	Texture	Consistency	Color	Mottling
0–10	SANDY LOAM (FILL)	FRIABLE	DARK BROWN	
10–40				
40	BEDROCK			

Soil Classification		Slope	Limiting Factor	
11	A	____/	42"	☐ Ground Water ☐ Restrictive Layer ■ Bedrock ☐ Pit Depth
Profile	Condition			

SOIL DESCRIPTION AND CLASSIFICATION (Location of Observation Holes Shown Above)

Observation Hole 115 ☐ Test Pit ■ Boring
____" Depth of Organic Horizon Above Mineral Soil

Depth (inches)	Texture	Consistency	Color	Mottling
0–10	SANDY LOAM (FILL)	FRIABLE	DARK BROWN	
10–30				
30	BEDROCK			

Soil Classification		Slope	Limiting Factor	
11	A	____/	31"	☐ Ground Water ☐ Restrictive Layer ■ Bedrock ☐ Pit Depth
Profile	Condition			

Observation Hole 116 ☐ Test Pit ■ Boring
____" Depth of Organic Horizon Above Mineral Soil

Depth (inches)	Texture	Consistency	Color	Mottling
0–20	SANDY LOAM (FILL)	FRIABLE	DARK BROWN	
20	BEDROCK			

Soil Classification		Slope	Limiting Factor	
11	A	____%	20"	☐ Ground Water ☐ Restrictive Layer ■ Bedrock ☐ Pit Depth
Profile	Condition			

Albert Frick
Site Evaluator Signature

163
SE #

10/1/98
Date

ALBERT FRICK ASSOCIATES - 95A COUNTY ROAD GORHAM, MAINE 04038 - (207) 839-5563

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services
Division of Health Engineering

Town, City, Plantation	Street, Road Subdivision	Owner's Name
PORTLAND, LITTLE DIAMOND	DIAMOND COVE	

SOIL DESCRIPTION AND CLASSIFICATION (Location of Observation Holes Shown Above)

Observation Hole 117 ☐ Test Pit ■ Boring
_____" Depth of Organic Horizon Above Mineral Soil

Depth below mineral soil surface (inches)	Texture	Consistency	Color	Mottling
0–10	SANDY LOAM (FILL)	FRIABLE	DARK BROWN	
10–30				
30	BEDROCK			
40–50				

Soil Classification		Slope	Limiting Factor	
11 Profile	A Condition	____ %	32"	☐ Ground Water ☐ Restrictive Layer ■ Bedrock ☐ Pit Depth

Observation Hole 118 ☐ Test Pit ■ Boring
_____" Depth of Organic Horizon Above Mineral Soil

Depth below mineral soil surface (inches)	Texture	Consistency	Color	Mottling
0–10	SANDY LOAM	FRIABLE	DARK BROWN	
10–20			DARK RED BROWN	
30	BEDROCK			
40–50				

Soil Classification		Slope	Limiting Factor	
2 Profile	A Condition	____ %	24"	☐ Ground Water ☐ Restrictive Layer ■ Bedrock ☐ Pit Depth

SOIL DESCRIPTION AND CLASSIFICATION (Location of Observation Holes Shown Above)

Observation Hole 119 ☐ Test Pit ■ Boring
_____" Depth of Organic Horizon Above Mineral Soil

Depth below mineral soil surface (inches)	Texture	Consistency	Color	Mottling
0–10	SANDY LOAM	FRIABLE	DARK BROWN	
10–20	LOAMY SAND		DARK YELLOW BROWN	
20–30		FIRM	LIGHT OLIVE BROWN	COMMON, DISTINCT
30–40			OLIVE	FREE WATER
50	BEDROCK			

Soil Classification		Slope	Limiting Factor	
3 Profile	A/C Condition	____ %	20"	■ Ground Water ☐ Restrictive Layer ☐ Bedrock ☐ Pit Depth

Observation Hole 120 ☐ Test Pit ■ Boring
_____" Depth of Organic Horizon Above Mineral Soil

Depth below mineral soil surface (inches)	Texture	Consistency	Color	Mottling
0–10	SANDY LOAM	FRIABLE	DARK BROWN	
10–20			DARK YELLOW BROWN	FEW, FAINT
20–30		FIRM	LIGHT OLIVE BROWN	COMMON, DISTINCT
40–50	BEDROCK			

Soil Classification		Slope	Limiting Factor	
3 Profile	A/C Condition	____ %	20"	■ Ground Water ☐ Restrictive Layer ☐ Bedrock ☐ Pit Depth

Albert Frick — Site Evaluator Signature

163 — SE #

10/1/98 — Date

ALBERT FRICK ASSOCIATES - 95A COUNTY ROAD GORHAM, MAINE 04038 - (207) 839-5563

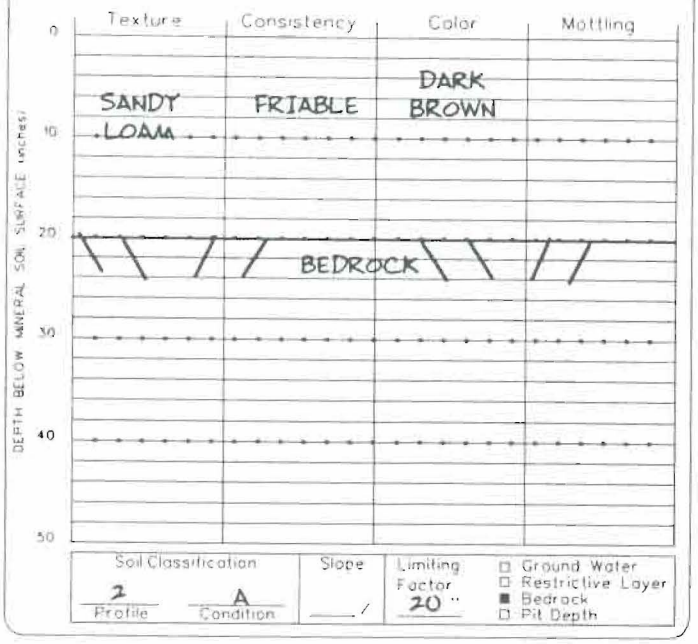
SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services
Division of Health Engineering

Town, City, Plantation	Street, Road Subdivision	Owner's Name
PORTLAND, LITTLE DIAMOND	DIAMOND COVE	

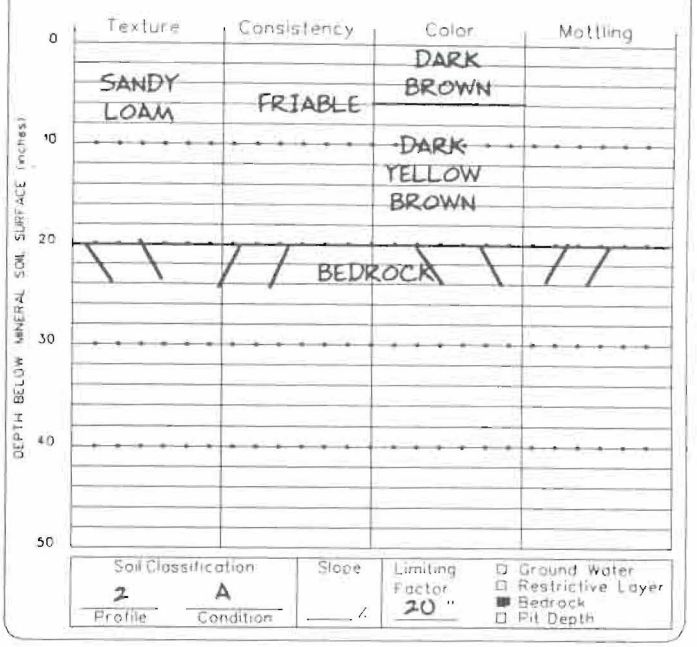
SOIL DESCRIPTION AND CLASSIFICATION (Location of Observation Holes Shown Above)

Observation Hole 121 ☐ Test Pit ■ Boring
_____" Depth of Organic Horizon Above Mineral Soil



Soil Classification		Slope	Limiting Factor	
2	A	___ /	20"	☐ Ground Water ☐ Restrictive Layer ■ Bedrock ☐ Pit Depth
Profile	Condition			

Observation Hole 122 ☐ Test Pit ■ Boring
_____" Depth of Organic Horizon Above Mineral Soil



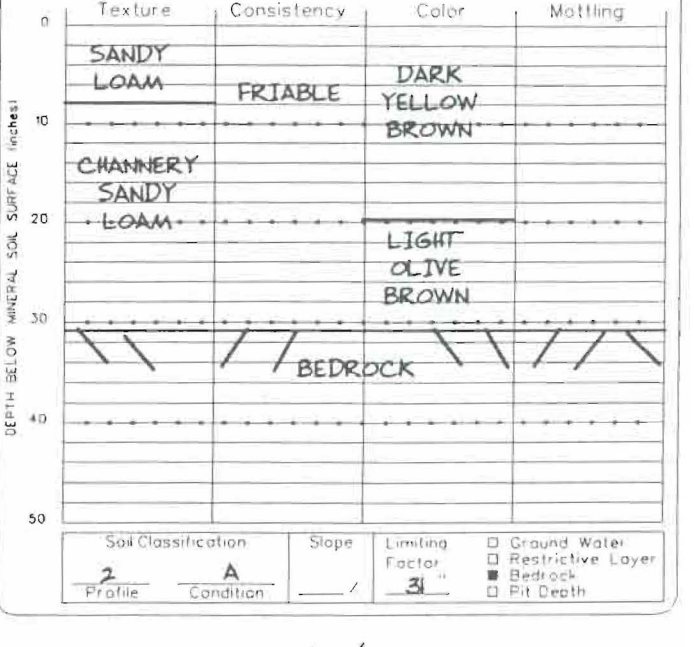
Soil Classification		Slope	Limiting Factor	
2	A	___ /	20"	☐ Ground Water ☐ Restrictive Layer ■ Bedrock ☐ Pit Depth
Profile	Condition			

SOIL DESCRIPTION AND CLASSIFICATION (Location of Observation Holes Shown Above)

Observation Hole 123 ☐ Test Pit ■ Boring
_____" Depth of Organic Horizon Above Mineral Soil

Soil Classification		Slope	Limiting Factor	
2	A	___ /	19"	☐ Ground Water ☐ Restrictive Layer ■ Bedrock ☐ Pit Depth
Profile	Condition			

Observation Hole 124 ☐ Test Pit ■ Boring
_____" Depth of Organic Horizon Above Mineral Soil



Soil Classification		Slope	Limiting Factor	
2	A	___ /	31"	☐ Ground Water ☐ Restrictive Layer ■ Bedrock ☐ Pit Depth
Profile	Condition			

Albert Frick — Site Evaluator Signature

163 — SE #

10/1/98 — Date

ALBERT FRICK ASSOCIATES - 95A COUNTY ROAD GORHAM, MAINE 04038 - (207) 839-5563

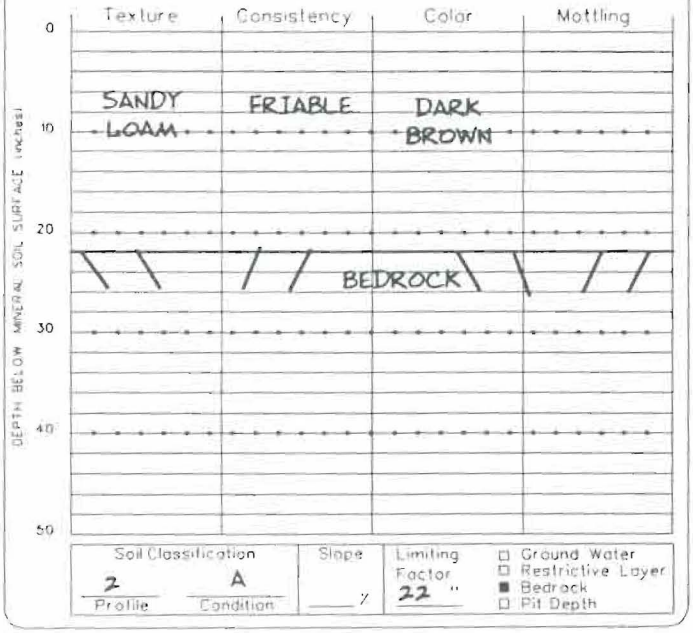
SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services
Division of Health Engineering

Town, City, Plantation	Street, Road Subdivision	Owner's Name
PORTLAND, LITTLE DIAMOND	DIAMOND COVE	

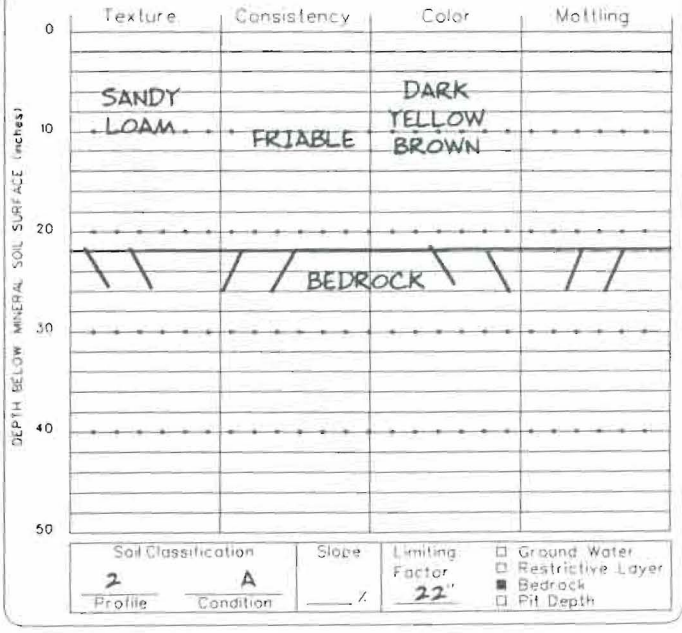
SOIL DESCRIPTION AND CLASSIFICATION (Location of Observation Holes Shown Above)

Observation Hole 125 ☐ Test Pit ■ Boring
_____" Depth of Organic Horizon Above Mineral Soil



Soil Classification		Slope	Limiting Factor	
2 (Profile)	A (Condition)	____ %	22"	☐ Ground Water ☐ Restrictive Layer ■ Bedrock ☐ Pit Depth

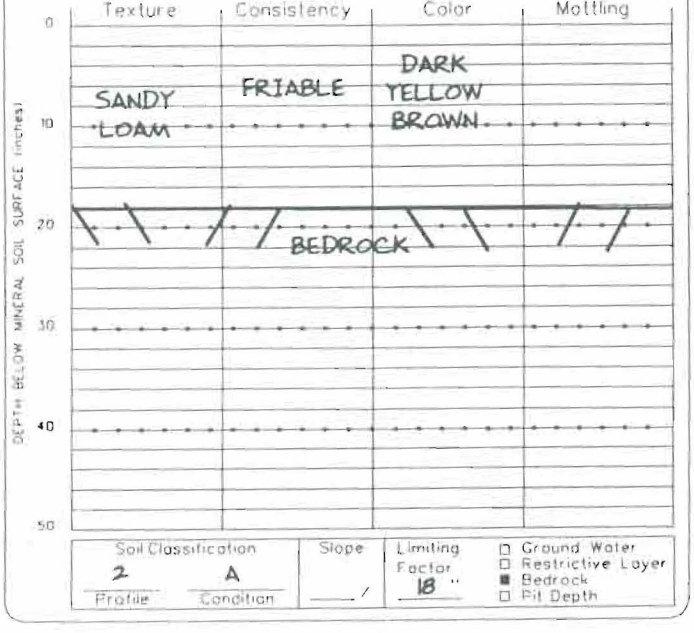
Observation Hole 126 ☐ Test Pit ■ Boring
_____" Depth of Organic Horizon Above Mineral Soil



Soil Classification		Slope	Limiting Factor	
2 (Profile)	A (Condition)	____ %	22"	☐ Ground Water ☐ Restrictive Layer ■ Bedrock ☐ Pit Depth

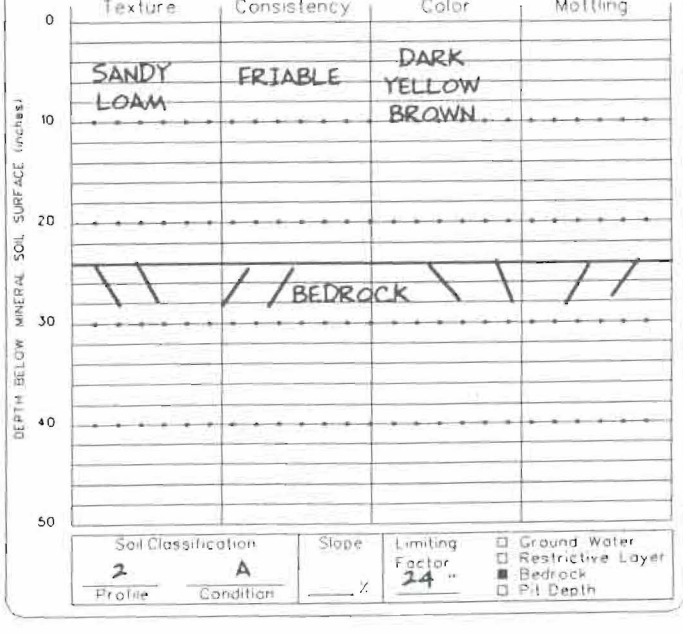
SOIL DESCRIPTION AND CLASSIFICATION (Location of Observation Holes Shown Above)

Observation Hole 127 ☐ Test Pit ■ Boring
_____" Depth of Organic Horizon Above Mineral Soil



Soil Classification		Slope	Limiting Factor	
2 (Profile)	A (Condition)	____ %	18"	☐ Ground Water ☐ Restrictive Layer ■ Bedrock ☐ Pit Depth

Observation Hole 128 ☐ Test Pit ■ Boring
_____" Depth of Organic Horizon Above Mineral Soil



Soil Classification		Slope	Limiting Factor	
2 (Profile)	A (Condition)	____ %	24"	☐ Ground Water ☐ Restrictive Layer ■ Bedrock ☐ Pit Depth

Albert Frick — Site Evaluator Signature

163 — SE #

10/1/98 — Date

ALBERT FRICK ASSOCIATES - 95A COUNTY ROAD GORHAM, MAINE 04038 - (207) 839-5563

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services
Division of Health Engineering

Town, City, Plantation	Street, Road Subdivision	Owner's Name
PORTLAND, LITTLE DIAMOND	DIAMOND COVE	

SOIL DESCRIPTION AND CLASSIFICATION (Location of Observation Holes Shown Above)

Observation Hole 129 ☐ Test Pit ■ Boring
_____" Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (inches)

	Texture	Consistency	Color	Mottling
0–10	SANDY LOAM	FRIABLE	DARK BROWN	
10–20			DARK YELLOW BROWN	
20	BEDROCK			

Soil Classification	Slope	Limiting Factor	
2 Profile / A Condition	____ %	18"	☐ Ground Water ☐ Restrictive Layer ■ Bedrock ☐ Pit Depth

Observation Hole 130 ☐ Test Pit ■ Boring
_____" Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (inches)

	Texture	Consistency	Color	Mottling
0–10	GRAVELLY LOAMY SAND TO SAND WITH COAL (FILL)	FRIABLE	DARK BROWN TO BLACK	
10–50				
50	BEDROCK			

Soil Classification	Slope	Limiting Factor	
1 1 Profile / A Condition	____ %	____"	☐ Ground Water ☐ Restrictive Layer ☐ Bedrock ☐ Pit Depth

SOIL DESCRIPTION AND CLASSIFICATION (Location of Observation Holes Shown Above)

Observation Hole 131 ☐ Test Pit ■ Boring
_____" Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (inches)

	Texture	Consistency	Color	Mottling
0–10	GRAVELLY LOAMY SAND TO SAND (FILL)			
10–40				
40	BEDROCK			

Soil Classification	Slope	Limiting Factor	
1 1 Profile / A Condition	____ %	40"	☐ Ground Water ☐ Restrictive Layer ■ Bedrock ☐ Pit Depth

Observation Hole 132 ☐ Test Pit ■ Boring
_____" Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (inches)

	Texture	Consistency	Color	Mottling
0–10	GRAVELLY LOAMY SAND TO SAND (FILL)	FRIABLE	DARK BROWN	
10–50				

Soil Classification	Slope	Limiting Factor	
1 1 Profile / B Condition	____ %	____"	☐ Ground Water ☐ Restrictive Layer ☐ Bedrock ☐ Pit Depth

Albert Frick — Site Evaluator Signature

163 — SE #

10/1/98 — Date

ALBERT FRICK ASSOCIATES – 95A COUNTY ROAD GORHAM, MAINE 04038 – (207) 839-5563

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services
Division of Health Engineering

Town, City, Plantation	Street, Road Subdivision	Owner's Name
PORTLAND, LITTLE DIAMOND	DIAMOND COVE	

SOIL DESCRIPTION AND CLASSIFICATION (Location of Observation Holes Shown Above)

Observation Hole 133 ☐ Test Pit ■ Boring
_____" Depth of Organic Horizon Above Mineral Soil

Depth below mineral soil surface (inches)	Texture	Consistency	Color	Mottling
0–10	GRAVELLY LOAMY SAND (FILL)	FRIABLE	DARK BROWN	
10–30				
30	BEDROCK			
40–50				

Soil Classification		Slope	Limiting Factor	
11 Profile	A Condition	____/	40"	☐ Ground Water ☐ Restrictive Layer ■ Bedrock ☐ Pit Depth

Observation Hole 134 ☐ Test Pit ■ Boring
_____" Depth of Organic Horizon Above Mineral Soil

Depth below mineral soil surface (inches)	Texture	Consistency	Color	Mottling
0–10	LOAMY SAND (FILL)	FRIABLE	DARK BROWN	
10–30				
30	BEDROCK			
40–50				

Soil Classification		Slope	Limiting Factor	
2 Profile	A Condition	____/	24"	☐ Ground Water ☐ Restrictive Layer ■ Bedrock ☐ Pit Depth

SOIL DESCRIPTION AND CLASSIFICATION (Location of Observation Holes Shown Above)

Observation Hole 135 ☐ Test Pit ■ Boring
_____" Depth of Organic Horizon Above Mineral Soil

Depth below mineral soil surface (inches)	Texture	Consistency	Color	Mottling
0–10	COBBLY LOMY SAND	FRIABLE	DARK BROWN	
10–40				
40	BEDROCK			
50				

Soil Classification		Slope	Limiting Factor	
2 Profile	A Condition	____/	36"	☐ Ground Water ☐ Restrictive Layer ■ Bedrock ☐ Pit Depth

Observation Hole 136 ☐ Test Pit ■ Boring
_____" Depth of Organic Horizon Above Mineral Soil

Depth below mineral soil surface (inches)	Texture	Consistency	Color	Mottling
0–10	FINE SANDY LOAM	FRIABLE	LIGHT OLIVE BROWN	
10–50				
50	LIMIT OF EXCAVATION			

Soil Classification		Slope	Limiting Factor	
11 Profile	B Condition	____/	____"	☐ Ground Water ☐ Restrictive Layer ☐ Bedrock ☐ Pit Depth

Albert Frick — Site Evaluator Signature

163 — SE #

10/1/98 — Date

ALBERT FRICK ASSOCIATES - 95A COUNTY ROAD GORHAM, MAINE 04038 - (207) 839-5583

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services
Division of Health Engineering

Town, City, Plantation	Street, Road Subdivision	Owner's Name
PORTLAND, LITTLE DIAMOND	DIAMOND COVE	

SOIL DESCRIPTION AND CLASSIFICATION (Location of Observation Holes Shown Above)

Observation Hole 137 ☐ Test Pit ■ Boring
_____" Depth of Organic Horizon Above Mineral Soil

Depth below mineral soil surface (inches)	Texture	Consistency	Color	Mottling
0–10	SANDY LOAM (FILL)	FRIABLE	LIGHT YELLOW BROWN	
10–50	LIMIT OF EXCAVATION			

Soil Classification		Slope	Limiting Factor	
11 (Profile)	B (Condition)	____ %	_____	☐ Ground Water ☐ Restrictive Layer ☐ Bedrock ☐ Pit Depth

Observation Hole 138 ☐ Test Pit ■ Boring
_____" Depth of Organic Horizon Above Mineral Soil

Depth below mineral soil surface (inches)	Texture	Consistency	Color	Mottling
0–10	SANDY LOAM (FILL)	FRIABLE	DARK YELOW BROWN	
10–50	LIMIT OF EXCAVATION			

Soil Classification		Slope	Limiting Factor	
11 (Profile)	B (Condition)	____ %	_____	☐ Ground Water ☐ Restrictive Layer ☐ Bedrock ☐ Pit Depth

SOIL DESCRIPTION AND CLASSIFICATION (Location of Observation Holes Shown Above)

Observation Hole 139 ☐ Test Pit ■ Boring
_____" Depth of Organic Horizon Above Mineral Soil

Depth below mineral soil surface (inches)	Texture	Consistency	Color	Mottling
0–10	GRAVELLY SANDY LOAM (FILL)	FRIABLE	YELLOW BROWN	
10–50	LIMIT OF EXCAVATION			

Soil Classification		Slope	Limiting Factor	
11 (Profile)	B (Condition)	____ %	_____	☐ Ground Water ☐ Restrictive Layer ☐ Bedrock ☐ Pit Depth

Observation Hole 140 ☐ Test Pit ■ Boring
_____" Depth of Organic Horizon Above Mineral Soil

Depth below mineral soil surface (inches)	Texture	Consistency	Color	Mottling
0–10	GRAVELY SANDY LOAM TO SANDY LOAM (FILL)	FRIABLE	DARK YELLOW BROWN	
10–50	LIMIT OF EXCAVATION			

Soil Classification		Slope	Limiting Factor	
11 (Profile)	B (Condition)	____ %	_____	☐ Ground Water ☐ Restrictive Layer ☐ Bedrock ☐ Pit Depth

Albert Frick — Site Evaluator Signature

163 — SE #

10/1/98 — Date

ALBERT FRICK ASSOCIATES - 95A COUNTY ROAD GORHAM, MAINE 04038 - (207) 839-5563

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services
Division of Health Engineering

Town, City, Plantation	Street, Road Subdivision	Owner's Name
PORTLAND, LITTLE DIAMOND	DIAMOND COVE	

SOIL DESCRIPTION AND CLASSIFICATION (Location of Observation Holes Shown Above)

Observation Hole 141 ☐ Test Pit ■ Boring
_____" Depth of Organic Horizon Above Mineral Soil

Depth below mineral soil surface (inches)	Texture	Consistency	Color	Mottling
0–10	MEDIUM SAND (FILL)	FRIABLE	LIGHT BROWN	
10–50	LIMIT OF EXCAVATION			

Soil Classification	Slope	Limiting Factor	
Profile: II	____ %	____"	☐ Ground Water ☐ Restrictive Layer ☐ Bedrock ☐ Pit Depth
Condition: B			

Observation Hole 142 ☐ Test Pit ■ Boring
_____" Depth of Organic Horizon Above Mineral Soil

Depth below mineral soil surface (inches)	Texture	Consistency	Color	Mottling
0–10	COARSE SAND (FILL)	FRIABLE TO LOOSE	LIGHT BROWN	
10–50	LIMIT OF EXCAVATION			

Soil Classification	Slope	Limiting Factor	
Profile: II	____ %	____"	☐ Ground Water ☐ Restrictive Layer ☐ Bedrock ☐ Pit Depth
Condition: B			

SOIL DESCRIPTION AND CLASSIFICATION (Location of Observation Holes Shown Above)

Observation Hole 143 ☐ Test Pit ■ Boring
_____" Depth of Organic Horizon Above Mineral Soil

Depth below mineral soil surface (inches)	Texture	Consistency	Color	Mottling
0–10	SAND (FILL)	FRIABLE	LIGHT BROWN	
10–40				
40–50	BEDROCK			

Soil Classification	Slope	Limiting Factor	
Profile: II	____ /	40"	☐ Ground Water ☐ Restrictive Layer ■ Bedrock ☐ Pit Depth
Condition: A			

Observation Hole 144 ☐ Test Pit ■ Boring
_____" Depth of Organic Horizon Above Mineral Soil

Depth below mineral soil surface (inches)	Texture	Consistency	Color	Mottling
0–10	GRAVELLY LOAMY SAND (FILL)	FRIABLE	DARK BROWN	
10–30				
30–50	BEDROCK			

Soil Classification	Slope	Limiting Factor	
Profile: II	____ %	30"	☐ Ground Water ☐ Restrictive Layer ■ Bedrock ☐ Pit Depth
Condition: A			

Albert Frick
Site Evaluator Signature

163
SE #

10/1/98
Date

ALBERT FRICK ASSOCIATES - 95A COUNTY ROAD GORHAM, MAINE 04038 - (207) 839-5563

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services
Division of Health Engineering

Town, City, Plantation	Street, Road Subdivision	Owner's Name
PORTLAND, LITTLE DIAMOND	DIAMOND COVE	

SOIL DESCRIPTION AND CLASSIFICATION (Location of Observation Holes Shown Above)

Observation Hole #5 ☐ Test Pit ■ Boring
_____" Depth of Organic Horizon Above Mineral Soil

Depth below mineral soil surface (inches)	Texture	Consistency	Color	Mottling
0–10	GRAVELLY LOAMY SAND TO SANDY LOAM (FILL)	FRIABLE	DARK BROWN	
10–20				
20–30				
30–40				
40–50		BEDROCK		

Soil Classification	Slope	Limiting Factor	
Profile: II / Condition: A	____ %	40"	☐ Ground Water ☐ Restrictive Layer ■ Bedrock ☐ Pit Depth

Observation Hole _____ ☐ Test Pit ■ Boring
_____" Depth of Organic Horizon Above Mineral Soil

Depth below mineral soil surface (inches)	Texture	Consistency	Color	Mottling
0–10				
10–20				
20–30				
30–40				
40–50				

Soil Classification	Slope	Limiting Factor	
Profile: ____ / Condition: ____	____ %	____"	☐ Ground Water ☐ Restrictive Layer ☐ Bedrock ☐ Pit Depth

SOIL DESCRIPTION AND CLASSIFICATION (Location of Observation Holes Shown Above)

Observation Hole _____ ☐ Test Pit ■ Boring
_____" Depth of Organic Horizon Above Mineral Soil

Depth below mineral soil surface (inches)	Texture	Consistency	Color	Mottling
0–10				
10–20				
20–30				
30–40				
40–50				

Soil Classification	Slope	Limiting Factor	
Profile: ____ / Condition: ____	____ %	____"	☐ Ground Water ☐ Restrictive Layer ☐ Bedrock ☐ Pit Depth

Observation Hole _____ ☐ Test Pit ■ Boring
_____" Depth of Organic Horizon Above Mineral Soil

Depth below mineral soil surface (inches)	Texture	Consistency	Color	Mottling
0–10				
10–20				
20–30				
30–40				
40–50				

Soil Classification	Slope	Limiting Factor	
Profile: ____ / Condition: ____	____ %	____"	☐ Ground Water ☐ Restrictive Layer ☐ Bedrock ☐ Pit Depth

Albert Frick — Site Evaluator Signature

163 — SE #

10/1/98 — Date

ALBERT FRICK ASSOCIATES - 95A COUNTY ROAD GORHAM, MAINE 04038 - (207) 839-5563

LAND USE CONSULTANTS INC

☐ Telcomm.
☐ Transmittal ■ Fax
☐ Meeting Notes
☐ Field Notes
☐ Memorandum

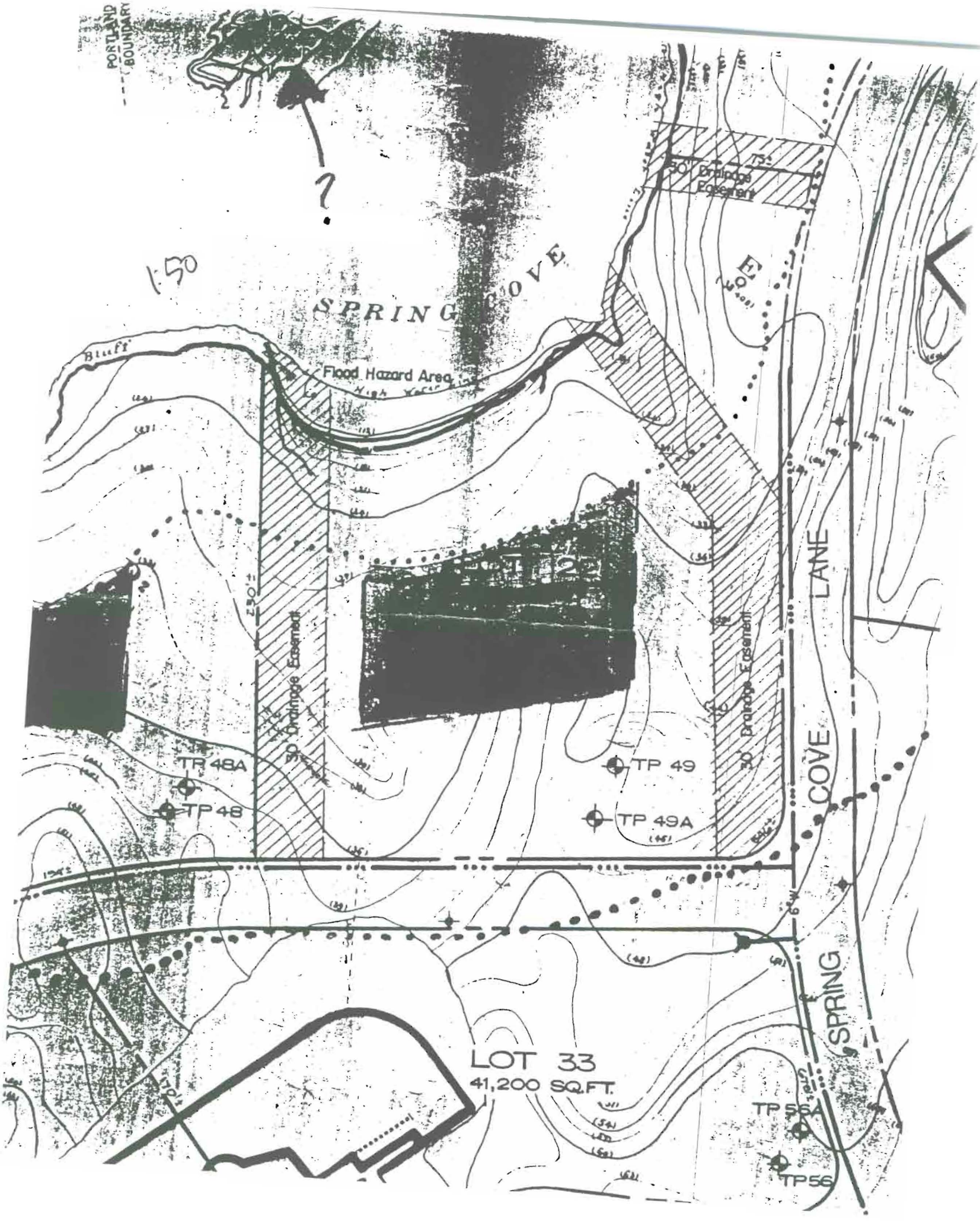
To: EARL KLEIN
Date: APRIL 15, 1999
Job # 1420.22
Project: DIAMOND COVE LOT 22
From: DAVE KANICKA
Phone:
Fax: 760-438-9648
No /Pages 3

REMARKS: ■ As Requested ☐ For Your Use ☐ F.Y.I ☐ Please Comment

PER REQUEST OF SANDY FITCH I AM FAXING COPIES OF SOIL TEST PIT LOGS NO.'S 49 AND 49A LOCATED ON LOT 22 OF DIAMOND COVE.

Copy To: SANDY FITCH 766-2973
→ JIM STERLING FAX 773-8545 (5/20/99)

LAND PLANNERS • ENGINEERS • SURVEYORS
966 RIVERSIDE STREET • PORTLAND, MAINE 04103 • 207 878-3313 • Fax: 207 878-0201 • e-mail: landuse@gwi.net


PORTLAND BOUNDARY
?
1:50
SPRING COVE
Bluff
Flood Hazard Area
30' Drainage Easement
30' Drainage Easement
30' Drainage Easement
LANE
COVE
SPRING
TP 48A
TP 48
TP 49
TP 49A
LOT 33
41,200 SQ.FT.
TP 56A
TP 56

SURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Location	Street, Road, Subdivision	Owners Name
10-17-84	Great Diamond Island	

SOIL DESCRIPTION AND CLASSIFICATION

Observation Hole 49 ☒ Test Pit ☐ Boring

2 " Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (inches)

	Texture	Consistency	Color	Mottling
0–10	FSL	FL	DB	
10–15			RB	
15–20	5% coarse			
20–30		Firm	ORB	comm dist
30–40	Bedrock	transition to	48	

Soil	Classification	Slope	Limiting Factor	
3 (Profile)	C (Condition)	6 %	24 "	☒ Ground Water ☐ Restrictive Layer ☐ Bedrock

Roots to 26"

Observation Hole 50 ☒ Test Pit ☐ Boring

" Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (inches)

	Texture	Consistency	Color	Mottling
0–10	FSL 20% coarse	FL	DB	
10–15			RB	none
15–20				
20–30		Bedrock		
30–40				

Soil	Classification	Slope	Limiting Factor	
2 (Profile)	A (Condition)	3 %	20 "	☐ Ground Water ☐ Restrictive Layer ☒ Bedrock

Site Evaluator or Professional Engineer's Signature — SE# / PE# — Date

SOIL DESCRIPTION AND CLASSIFICATION

Observation Hole 51 ☒ Test Pit ☐ Boring

" Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (inches)

	Texture	Consistency	Color	Mottling
0–10	LS		DB	
10–15			DRB	
15–20	LS/ 30% coarse	FL	RB	comm dist
20–30			YB	
30–40				

Soil	Classification	Slope	Limiting Factor	
6 (Profile)	C (Condition)	4 %	18 "	☒ Ground Water ☐ Restrictive Layer ☐ Bedrock

48" no bedrock

Observation Hole 52 ☒ Test Pit ☐ Boring

" Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (inches)

	Texture	Consistency	Color	Mottling
0–10	FSL	FL	DB	
10–15			RB	none
15–20				
20–30		Bedrock		
30–40				

Soil	Classification	Slope	Limiting Factor	
2 (Profile)	A (Condition)	6 %	24 "	☐ Ground Water ☐ Restrictive Layer ☒ Bedrock

David A. Kuhl — Site Evaluator or Professional Engineer's Signature

185 — SE# / PE#

10/17/84 — Date

..URFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Division of Health Engineering

..y, Plantation	Street, Road, Subdivision	Owners Name
..ORTLAND	GREAT DIAMOND ISLAND	DICTAR ASSOCIATES

SOIL DESCRIPTION AND CLASSIFICATION [redacted]

Observation Hole 49 A ☐ Test Pit ☒ Boring

2 " Depth of Organic Horizon Above Mineral Soil

Depth below mineral soil surface (inches)	Texture	Consistency	Color	Mottling
0–6			DARK BROWN	
6–15	FINE SANDY	FRIABLE	LIGHT REDDISH BROWN	
15–25	LOAM	LOOSE	OLIVE BROWN	MANY PROMINENT
25–50		REFUSAL ASSUMED BEDROCK		

Soil Profile	Classification Condition	Slope	Limiting Factor	
2	A	6 %	16 "	☒ Ground Water ☐ Restrictive Layer ☐ Bedrock

Observation Hole 48A ☐ Test Pit ☒ Boring

1 " Depth of Organic Horizon Above Mineral Soil

Depth below mineral soil surface (inches)	Texture	Consistency	Color	Mottling
0–6			DARK BROWN	
6–18	FINE SANDY LOAM	FRIABLE LOOSE	LIGHT BROWN	
18–25			LIGHT OLIVE BROWN	FEW
25–50		REFUSAL ASSUMED BEDROCK		

Soil Profile	Classification Condition	Slope	Limiting Factor	
2	A	6 %	16 "	☒ Ground Water ☐ Restrictive Layer ☐ Bedrock

Site Evaluator or Professional Engineer's Signature ____ SE# / PE# ____ Date ____

SOIL DESCRIPTION AND CLASSIFICATION [redacted]

Observation Hole ______ ☐ Test Pit ☐ Boring

______ " Depth of Organic Horizon Above Mineral Soil

Depth below mineral soil surface (inches)	Texture	Consistency	Color	Mottling
0–50				

Soil Profile	Classification Condition	Slope	Limiting Factor	
		___ %	___ "	☐ Ground Water ☐ Restrictive Layer ☐ Bedrock

Observation Hole ______ ☐ Test Pit ☐ Boring

______ " Depth of Organic Horizon Above Mineral Soil

Depth below mineral soil surface (inches)	Texture	Consistency	Color	Mottling
0–50				

Soil Profile	Classification Condition	Slope	Limiting Factor	
		___ %	___ "	☐ Ground Water ☐ Restrictive Layer ☐ Bedrock

David A. K[illegible] — Site Evaluator or Professional Engineer's Signature
185 — (SE#) / PE#
4/23/87 — Date

LAND USE CONSULTANTS INC

☐ Telcomm.
☒ Transmittal ☐ Fax
☐ Meeting Notes
☐ Field Notes
☐ Memorandum

To: JIM STERLING, ARCHITECT
94 COMMERCIAL ST.
P.O. BOX 7305
PORTLAND, ME. 04112

Date: JUNE 14, 1999
Job # 1420.22

Project: LOT 22 DIAMOND COVE

Phone:
Fax:

No /Pages

From: DAVE KAMILA

REMARKS: ☒ As Requested ☐ For Your Use ☐ F.Y.I ☐ Please Comment

- 1 COPY RECORD PLAT SHEET 1 of 3
RECORDED AT C.C.R.D. PLAN BK 191 PAGE 143

- I CHECKED WITH SURVEY AND WE HAVE NO RECORD OF STAKING A BUILDING WINDOW FOR LOT 22

- I'LL BE DOING MY FIELD WORK ON TUESDAY 6/15.

Dave K.

Copy To:

#3 083 E-1A-022

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Maine Department of Human Services
Division of Health Engineering, Station 10
(207) 287-5672 FAX (207) 287-4172

PROPERTY LOCATION

City, Town, or Plantation	PORTLAND
Street or Road	SEAL COVE LANE
Subdivision, Lot #	DIAMOND COVE LOT 22

>> Caution: Permit Required – Attach In Space Below <<

PORTLAND Date Permit Issued 4/14/00 — 7245 TOWN COPY — $ 100 FEE Double Fee Charged

Local Plumbing Inspector Signature — L.P.I. # 0124

OWNER/APPLICANT INFORMATION

Name (last, first, MI) (Owner / Applicant)	Mr + Mrs Klein
Mailing Address of ☐ Owner ☒ Applicant	Wright Ryan Const. 10 Danforth st Portland Me 04101
Daytime Tel. #	7733725

Municipal Tax Map # _____ Lot # _____

Owner or Applicant Statement

I state that the information submitted is correct to the best of my knowledge and understand that any falsification is reason for the Department and/or Local Plumbing Inspector to deny a Permit.

Earl Klein — Signature of Owner or Applicant — 2-14-99 Date

Caution: Inspections Required

I have inspected the installation authorized above and found it to be in compliance with the Subsurface Wastewater Disposal Rules Application.

Local Plumbing Inspector Signature — (1st) Date Approved 8-9-00 — (2nd) Date Approved 9-15-00

PERMIT INFORMATION

TYPE OF APPLICATION

1. ■ First Time System
2. ☐ Replacement System

Type Replaced: _____
Year Installed: _____

3. ☐ Expanded System
   a. ☐ One-time exempted
   b. ☐ Non-exempted
4. ☐ Experimental System
5. ☐ Seasonal Conversion

THIS APPLICATION REQUIRES

1. ■ No Rule Variance
2. ☐ First Time System Variance
   a. ☐ Local Plumbing Inspector Approval
   b. ☐ State & Local Plumbing Inspector Approval
3. Replacement System Variance
   a. ☐ Local Plumbing Inspector Approval
   b. ☐ State & Local Plumbing Inspector Approval
4. ☐ Minimum Lot Size Variance
5. ☐ Seasonal Conversion Approval

DISPOSAL SYSTEM COMPONENT(S)

1. ■ Complete Non-engineered System
2. ☐ Primitive System (graywater & alt toilet)
3. ☐ Alternative Toilet, specify: _____
4. ☐ Non-Engineered Treatment Tank (only)
5. ☐ Holding Tank, _____ gallons
6. ☐ Non-engineered Disposal Field (only)
7. ☐ Separated Laundry System
8. ☐ Complete Engineered System (2000 gpd or more)
9. ☐ Engineered Treatment Tank (only)
10. ☐ Engineered Disposal Field (only)
11. ☐ Pre-treatment, specify:
12. ☐ Miscellaneous components

SIZE OF PROPERTY

51,779 ■ sq. ft. ☐ acres

SHORELAND ZONING

■ Yes ☐ No

DISPOSAL SYSTEM TO SERVE

1. ■ Single Family Dwelling Unit, No. of Bedrooms: 3
2. ☐ Multiple Family Dwelling, No. of Units: _____
3. ☐ Other: _____ SPECIFY

TYPE OF WATER SUPPLY

1. ☐ Drilled Well 2. ☐ Dug Well 3. ☐ Private
4. ■ Public 5. ☐ Other:

DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3)

TREATMENT TANK

1. ■ Concrete
   a. ■ Regular
   b. ☐ Low Profile
2. ☐ Plastic
3. ☐ Other: _____

CAPACITY 1000 gallons

DISPOSAL FIELD TYPE & SIZE

1. ☐ Stone Bed 2. ☐ Stone Trench
3. ■ Proprietary Device
   a. ☐ Cluster array c. ■ Linear
   b. ■ Regular load d. ☐ H-20 load
4. ☐ Other: _____

SIZE 900 ■ sq. ft. ☐ lin. ft.

GARBAGE DISPOSAL UNIT

1. ■ No 3. ☐ Maybe
2. ☐ Yes >> Specify one below:
   a. ☐ Multi-compartment Tank
   b. ☐ Tanks in Series
   c. ☐ Increase in Tank Capacity
   d. ☐ Filter on Tank Outlet

DESIGN FLOW

220 gallons per day

BASED ON:

1. ■ Table 501.1 (dwelling unit(s)
2. ☐ Table 501.2 (other facilities)

SHOW CALCULATIONS – for other facilities –

3 BEDROOMS

3. ☐ Section 503.0 (meter readings) ATTACH WATER-METER DATA

SOIL DATA & DESIGN CLASS

PROFILE / CONDITION / DESIGN
3 / C / 1

at Observation Hole # 1
Depth 18" Elevation -70"
OF MOST LIMITING SOIL FACTOR

DISPOSAL FIELD SIZING

1. ☐ Small – 2.0 sq. ft./gpd
2. ☐ Medium – 2.6 sq. ft./gpd
3. ■ Medium-Large – 3.3 sq. ft./gpd
4. ☐ Large – 4.1 sq. ft./gpd
5. ☐ Extra Large – 5.0 sq. ft./gpd

PUMPING

1. ☐ Not Required
2. ☐ May Be Required
3. ■ Required >> Specify only for engineered or experimental systems:

DOSE: 60 gallons

SITE EVALUATOR STATEMENT

I Certify that on 6/15/1999 (date) I completed a site evaluation on this property and state that the data reported are accurate and that the proposed system is in compliance with the State of Maine Subsurface Wastewater Disposal Rules (10-144A CMR 241).

David A. Kamila — Site Evaluator Signature — 185 SE # — 6/15/99 Date

DAVID A. KAMILA — Site Evaluator Name Printed — 878-3313 Telephone #

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services
Division of Health Engineering

Town, City, Plantation	Street, Road, Subdivision	Owner's Name
PORTLAND, LITTLE DIAMOND	DIAMOND COVE	

SOIL DESCRIPTION AND CLASSIFICATION (Location of Observation Holes Shown Above)

Observation Hole 105 ☐ Test Pit ■ Boring

_____" Depth of Organic Horizon Above Mineral Soil

Depth below mineral soil surface (inches)	Texture	Consistency	Color	Mottling
0–10	SANDY LOAM	FRIABLE	DARK BROWN	
10–20			STRONG BROWN	
20–30			LIGHT OLIVE BROWN	
30–50	BEDROCK			

Soil Classification	Slope	Limiting Factor	
2 Profile / A Condition	___ /	30"	☐ Ground Water ☐ Restrictive Layer ■ Bedrock ☐ Pit Depth

Observation Hole 106 ☐ Test Pit ■ Boring

_____" Depth of Organic Horizon Above Mineral Soil

Depth below mineral soil surface (inches)	Texture	Consistency	Color	Mottling
0–10	COBBLY LOAMY SAND (FILL)	FRIABLE	DARK BROWN	
10–20	BEDROCK			
20–50				

Soil Classification	Slope	Limiting Factor	
11 Profile / A Condition	___ /	21"	☐ Ground Water ☐ Restrictive Layer ■ Bedrock ☐ Pit Depth

SOIL DESCRIPTION AND CLASSIFICATION (Location of Observation Holes Shown Above)

Observation Hole 107 ☐ Test Pit ■ Boring

_____" Depth of Organic Horizon Above Mineral Soil

Depth below mineral soil surface (inches)	Texture	Consistency	Color	Mottling
0–10	COBBLY LOAMY SAND (FILL)	FRIABLE	DARK BROWN	
10–20				
20–50	BEDROCK			

Soil Classification	Slope	Limiting Factor	
11 Profile / A Condition	___ /	22"	☐ Ground Water ☐ Restrictive Layer ■ Bedrock ☐ Pit Depth

Observation Hole 108 ☐ Test Pit ■ Boring

_____" Depth of Organic Horizon Above Mineral Soil

Depth below mineral soil surface (inches)	Texture	Consistency	Color	Mottling
0–10	COBBLY LOAMY SAND (FILL)	FRIABLE	DARK BROWN	
10–40				
40–50	BEDROCK			

Soil Classification	Slope	Limiting Factor	
11 Profile / A Condition	___ /	40"	☐ Ground Water ☐ Restrictive Layer ■ Bedrock ☐ Pit Depth

Albert Frick — Site Evaluator Signature

163 — SE #

10/1/98 — Date

ALBERT FRICK ASSOCIATES - 95A COUNTY ROAD GORHAM, MAINE 04038 - (207) 839-5563

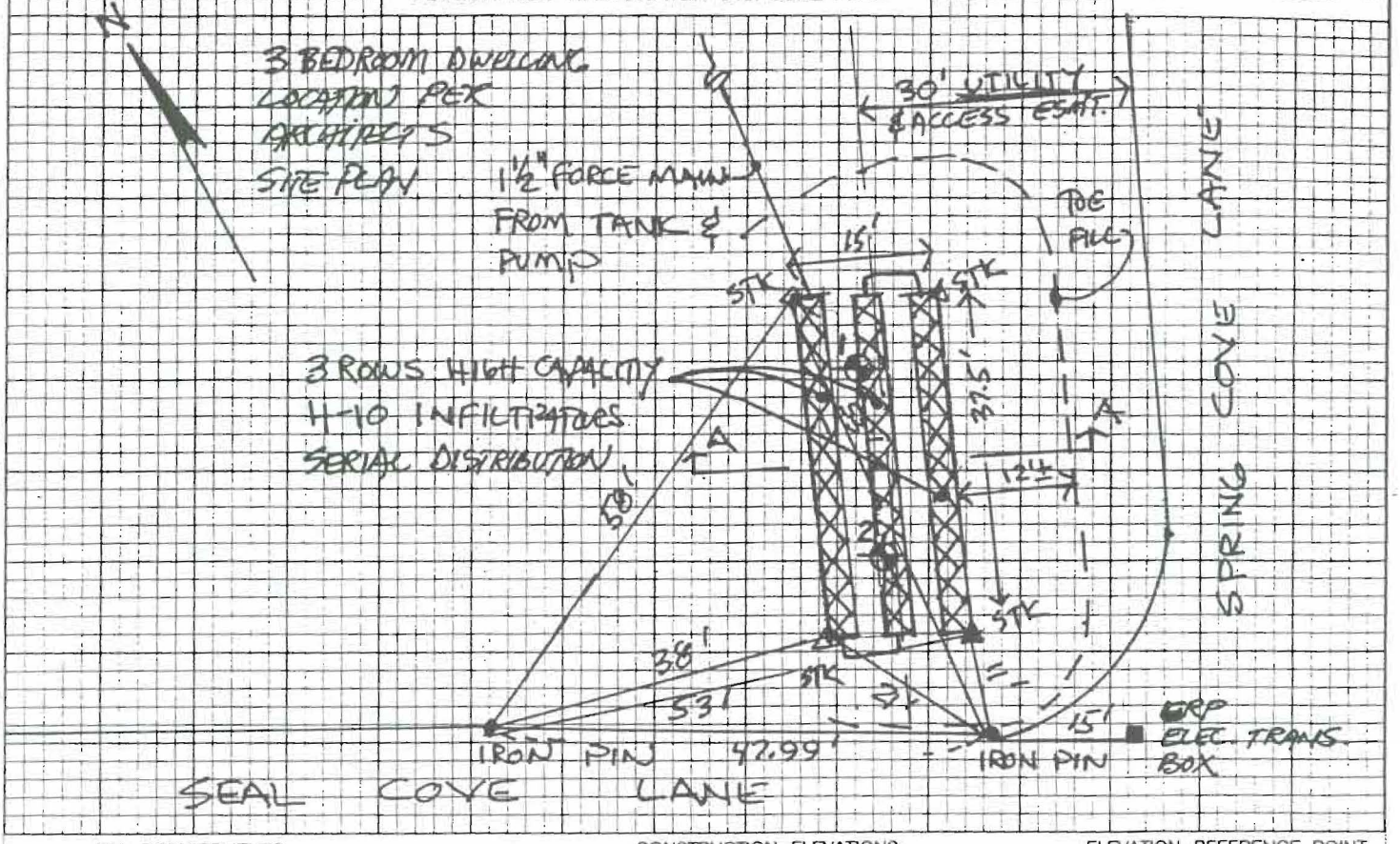
SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services
Division of Health Engineering
(207) 287-5672 FAX (207) 287-4172

Town, City, Plantation: PORTLAND | Street, Road, Subdivision: SEAL COVE LANE, LOT 22, DIAMOND COVE | Owner's Name:

SUBSURFACE WASTEWATER DISPOSAL PLAN

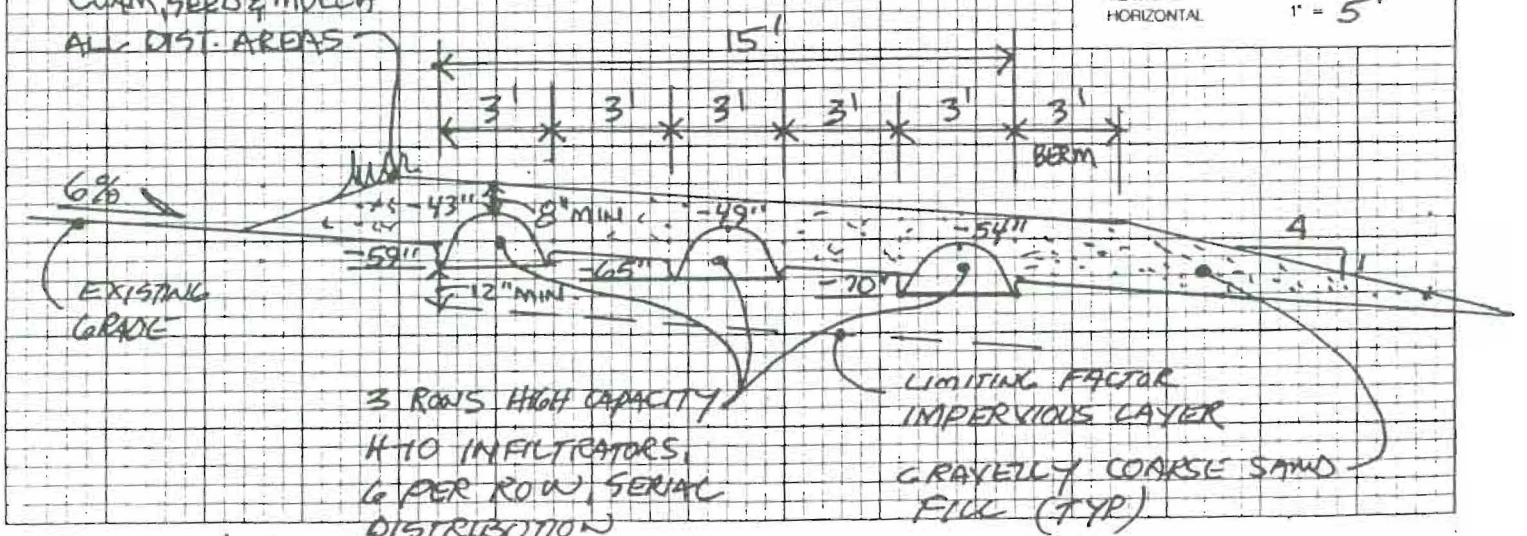
SCALE 1" = 20 FT.



FILL REQUIREMENTS		CONSTRUCTION ELEVATIONS	ELEVATION REFERENCE POINT
Depth of Fill (Upslope)	24"	Finished Grade Elevation	SEE SECTION BELOW — Location & Description: ELEC. TRANS. BOX TOP
Depth of Fill (Downslope)	24"	Top of Distribution Pipe or Proprietary Device	Reference Elevation: 0"
		Bottom of Disposal Area	

DISPOSAL AREA CROSS SECTION A-A

SCALE: VERTICAL 1" = 5' | HORIZONTAL 1" = 5'



Daniel A. Kiel — Site Evaluator Signature | 185 — SE # | 6/17/99 — Date

Page 3 of 3
HHE-200 Rev. 7 97

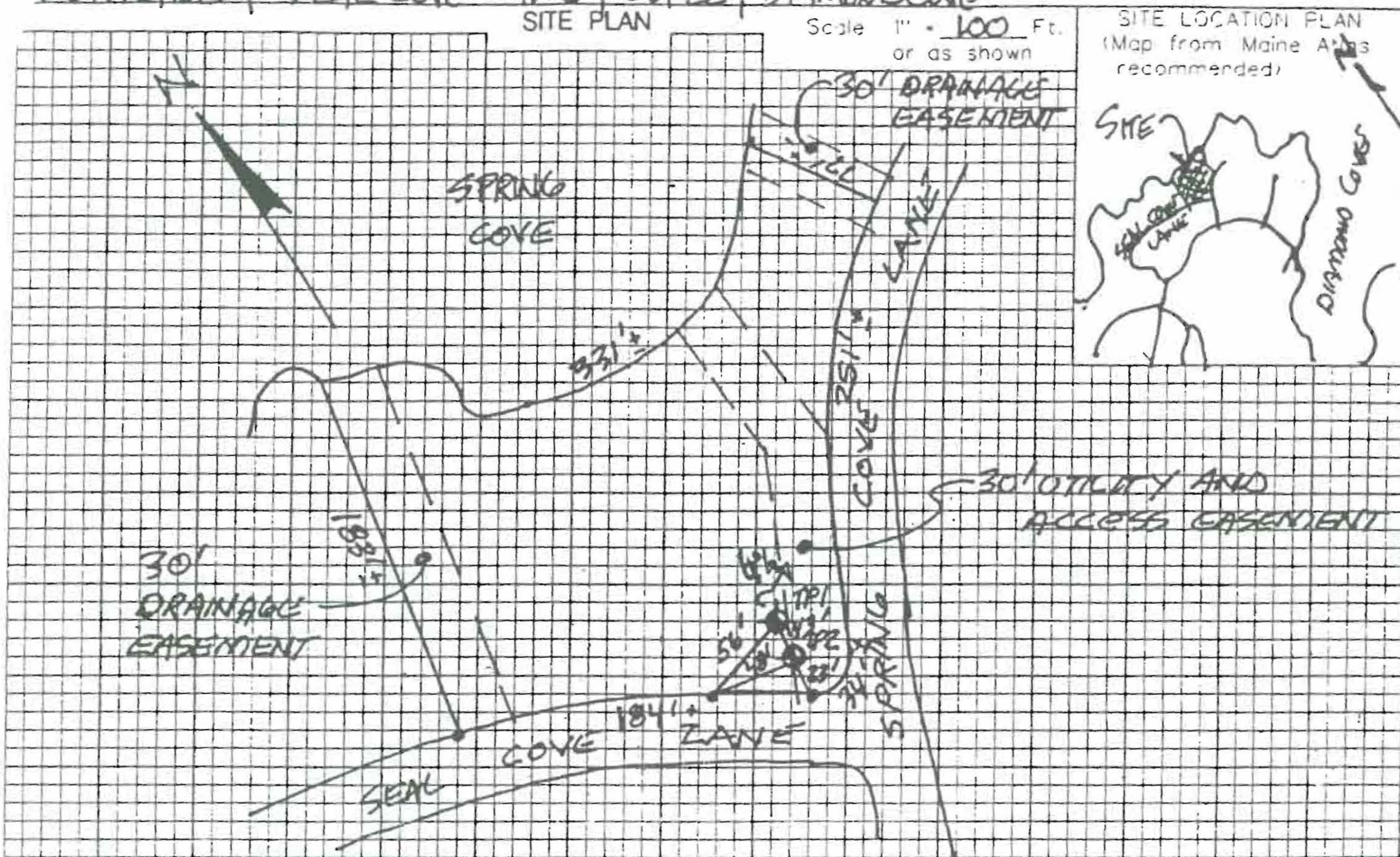
SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services
Division of Health Engineering
(207) 287-5672 FAX (207) 287-4172

Town, City, Plantation	Street, Road, Subdivision	Owner's Name
PORTLAND,	SEAL COVE LANE, LOT 22, DIAMOND COVE	

SITE PLAN — Scale 1" = 100 Ft. or as shown

SITE LOCATION PLAN (Map from Maine Atlas recommended)



SOIL DESCRIPTION AND CLASSIFICATION (Location of Observation Holes Shown Above)

Observation Hole 1 — ☒ Test Pit ☐ Boring
2" Depth of Organic Horizon Above Mineral Soil

Depth below mineral soil surface (inches)	Texture	Consistency	Color	Mottling
0–20	FINE SANDY LOAM	FRIABLE & LOOSE	MED. BROWN	
20–50	SILTY CLAY	VERY FIRM	LIGHT BROWN	FEW

Soil Classification	Slope	Limiting Factor	
3 (Profile) C (Condition)	4%	18"	☐ Ground Water ☒ Restrictive Layer ☐ Bedrock ☐ Pit Depth

Observation Hole 2 — ☒ Test Pit ☐ Boring
2" Depth of Organic Horizon Above Mineral Soil

Depth below mineral soil surface (inches)	Texture	Consistency	Color	Mottling
0–20	FINE SANDY LOAM	FRIABLE & LOOSE	MED. BROWN	
20–50	SILTY CLAY	VERY FIRM	LIGHT BROWN	FEW

Soil Classification	Slope	Limiting Factor	
3 (Profile) C (Condition)	4%	20"	☐ Ground Water ☒ Restrictive Layer ☐ Bedrock ☐ Pit Depth

David A. Kind — Site Evaluator Signature | 185 — SE # | 6/16/99 — Date

PLUMBING APPLICATION

#1 083E-A-022

Department of Human Sciences
Division of Health Engineering

PROPERTY ADDRESS

Town or Plantation	Portland [illegible]
Street Subdivision Lot #	98 [illegible] Rd

PROPERTY OWNERS NAME

Last: [illegible] First: [illegible]

Applicant Name:	[illegible] Plumbing + Heating
Mailing Address of Owner/Applicant (If Different)	[illegible] Cape Elizabeth [illegible]

PORTLAND 7367 TOWN COPY

Date Permit Issued: 7 13 00

$ 96 FEE ☐ If Double Fee Charged

L.P.I. # 0124

[signature] Local Plumbing Inspector Signature

Owner/Applicant Statement

I certify that the information submitted is correct to the best of my knowledge and understand that any falsification is reason for the Local Plumbing Inspectors to deny a Permit.

[signature]
Signature of Owner/Applicant Date

Caution: Inspection Required

I have inspected the installation authorized above and found it to be in compliance with the Maine Plumbing Rules.

Jeanie Bourke 9-15-00
Local Plumbing Inspector Signature Date Approved

PERMIT INFORMATION

This Application is for

1. ☑ NEW PLUMBING
2. ☐ RELOCATED PLUMBING

Type of Structure To Be Served:

1. ☑ SINGLE FAMILY DWELLING
   2. ☐ MODULAR OR MOBILE HOME
3. ☐ MULTIPLE FAMILY DWELLING
4. ☐ OTHER – SPECIFY ____________

Plumbing To Be Installed By:

1. ☑ MASTER PLUMBER
2. ☐ OIL BURNERMAN
3. ☐ MFG'D. HOUSING DEALER/MECHANIC
4. ☐ PUBLIC UTILITY EMPLOYEE
5. ☐ PROPERTY OWNER

LICENSE # [illegible]

Hook-Up & Piping Relocation — Maximum of 1 Hook-Up

- ☐ HOOK-UP: to public sewer in those cases where the connection is not regulated and inspected by the local Sanitary District.

OR

- ☐ HOOK-UP: to an existing subsurface wastewater disposal system.
- ☐ PIPING RELOCATION: of sanitary lines, drains, and piping without new fixtures.

OR

- ☐ TRANSFER FEE [$6.00]

Number	Column 2 Type of Fixture	Number	Column 1 Type of Fixture
2	Hosebibb / Sillcock	1	Bathtub (and Shower)
	Floor Drain	1	Shower (Separate)
	Urinal	2	Sink
	Drinking Fountain	3	Wash Basin
	Indirect Waste	3	Water Closet (Toilet)
	Water Treatment Softener, Filter, etc.	1	Clothes Washer
	Grease / Oil Separator	1	Dish Washer
	Dental Cuspidor		Garbage Disposal
	Bidet	1	Laundry Tub
	Other: ____________	1	Water Heater
	Fixtures (Subtotal) Column 2	14	Fixtures (Subtotal) Column 1
		2	Fixtures (Subtotal) Column 2
		16	Total Fixtures
		[illegible]	Fixture Fee
		[illegible]	Transfer Fee
		[illegible]	Hook-Up & Relocation Fee
		[illegible]	Permit Fee (Total)

SEE PERMIT FEE SCHEDULE FOR CALCULATING FEE

TOWN COPY

Form # P 01

ELECTRICAL PERMIT
City of Portland, Me.

S/F MC 66

To the Chief Electrical Inspector, Portland Maine:
The undersigned hereby applies for a permit to make electrical installations in accordance with the laws of Maine, the City of Portland Electrical Ordinance, National Electrical Code and the following specifications:

Date 7/14/00
Permit # 0613
CBL# 083E A022

SITE LOCATION: ~~22~~ 16 Seal Cove Lane, Great ~~Island~~ Diamond Island

OWNER Klein **TENANT**

								TOTAL	EACH FEE
OUTLETS	50	Receptacles	10	Switches	10	Smoke Detectors		.20	14-
FIXTURES	30	incandescent		fluorescent		Strips		.20	6-
SERVICES		Overhead	X	Underground		TTL AMPS	<800	15.00	15-
		Overhead		Underground			>800	25.00	
Temporary Service		Overhead		Underground		TTL AMPS		25.00	
								25.00	
METERS		(number of)					1	1.00	1-
MOTORS		(number of)						2.00	
RESID/COM		Electric units						1.00	
HEATING		oil/gas units		Interior		Exterior		5.00	
APPLIANCES		Ranges		Cook Tops		Wall Ovens		2.00	
		Insta-Hot		Water heaters		Fans		2.00	
		Dryers		Disposals		Dishwasher		2.00	
		Compactors		Spa		Washing Machine		2.00	
		Others (denote)						2.00	
MISC. (number of)		Air Cond/win						3.00	
		Air Cond/cent				Pools		10.00	
		HVAC		EMS		Thermostat		5.00	
		Signs						10.00	
		Alarms/res						5.00	
		Alarms/com						15.00	
		Heavy Duty(CRKT)						2.00	
		Circus/Carnv						25.00	
		Alterations						5.00	
		Fire Repairs						15.00	
		E Lights						1.00	
		E Generators						20.00	
PANELS		Service		Remote		Main		4.00	
TRANSFORMER		0-25 Kva						5.00	
		25-200 Kva						8.00	
		Over 200 Kva						10.00	
						TOTAL AMOUNT DUE			
		MINIMUM FEE/COMMERCIAL	**35.00**			**MINIMUM FEE**	**25.00**		36-

INSPECTION: Will be ready _____ or will call _____

CONTRACTORS NAME Elektrical Maintenance Inst **MASTER LIC. #** 13145
ADDRESS P.O. Box 6807, Scarborough, ME **LIMITED LIC. #**
TELEPHONE 207-883-1919

SIGNATURE OF CONTRACTOR

ELECTRICAL INSTALLATIONS—

Permit Number ______

Location ______

Owner ______

Date of Permit ______

Final Inspection ______

By Inspector ______

INSPECTION: Service *Passed* by *AKW 8-11*

Service called in *8-11*

Closing-in ______ by ______

PROGRESS INSPECTIONS: ______ / ______ / ______

7-12 Elect Insp. @ Peaks Island then G Picard w/ M.C. @ This job. = No Stackers

DATE:	REMARKS:
7-17	*Passed Rough-In Inspection AKW.*
8-11	*Passed Underground lateral. Inst. Contractor to Use 2 Hole ½ strap W/I 1 FT. OF MTR BOX ONCE SKIRTING IS IN PLACE. Steve Stuart Agreed. AKW*
8-24	*No GFI Protection @ Lite in Shower Stall / No Outside Fixture yet. Check Code for flex penetrating wall. Check Code for Romex Exposed aprox 1 foot in Furnace Room —*
9-12	*Check & Passed Final Elect. Insp. AKW w/ Arthur [illegible]*

CITY OF PORTLAND, MAINE

Department of Building Inspection

Certificate of Occupancy

83EA-22?

LOCATION 98 Seal Cove Lane GDI 084E-A-022

Issued to Earl Klein

Date of Issue Sept 15 2000

This is to certify that the building, premises, or part thereof, at the above location, built — altered — changed as to use under Building Permit No. 000355 , has had final inspection, has been found to conform substantially to requirements of Zoning Ordinance and Building Code of the City, and is hereby approved for occupancy or use, limited or otherwise, as indicated below.

PORTION OF BUILDING OR PREMISES	APPROVED OCCUPANCY
Entire	single family use group R3 type 5B Boca 99

Limiting Conditions:

This certificate supersedes certificate issued

Approved:

9-15-00 Jamie Bourke

(Date) *Inspector*

Inspector of Buildings

AKW = Cert. 9-1-21

Notice: This certificate identifies lawful use of building or premises, and ought to be transferred from owner to owner when property changes hands. Copy will be furnished to owner or lessee for one dollar.

PROPERTY LINE

TIE COURSE

EDGE OF WATER

LIMIT OF BUILDING WINDOW

EASEMENT LINE

EXISTING BUILDING /FOUNDATION

HISTORIC DISTRICT BOUNDARY

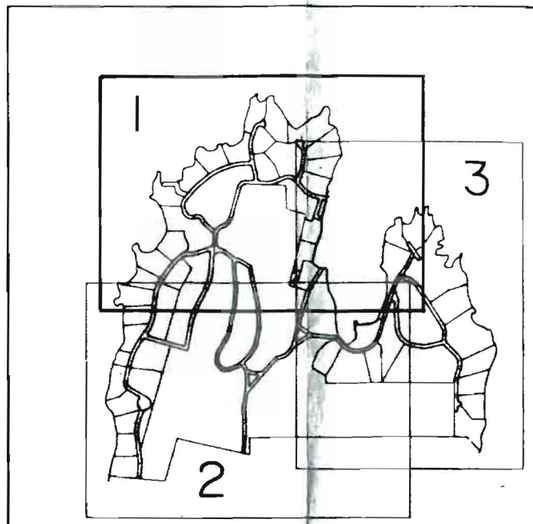
MATCHLINE

STEEL REBAR FOUND

STEEL REBAR TO BE SET

PHASE LINE

SOIL TEST PIT



KEY MAP

ED BY THE CITY OF PORTLAND
G. BOARD DATE 9-10-91

JANUARY 8, 1990
(LOCAL HOUR ANGLE METHOD)

BASIS OF BEARINGS AS SHOWN ON PLANS

MAG.

TRUE

SPRING COVE

LOT 23
49,468 SF +-

LOT 24
73,040 SF +-

LOT 31
40,743 SF

LOT 29
92,526 SF

LOT 22
51,779 SF +-

LOT 21
57,493 SF +-

LOT 20
49,683 SF +-

LOT 32
48,901 SF

30.00' DRAINAGE EASEMENT

30.00' UTILITY & ACCESS EASEMENT FOR LOTS 31 & 32

30.00' ACCESS & UTILITY EASEMENT

BERRY LANE

WOOD SIDE

SEAL COVE

INDIAN COVE

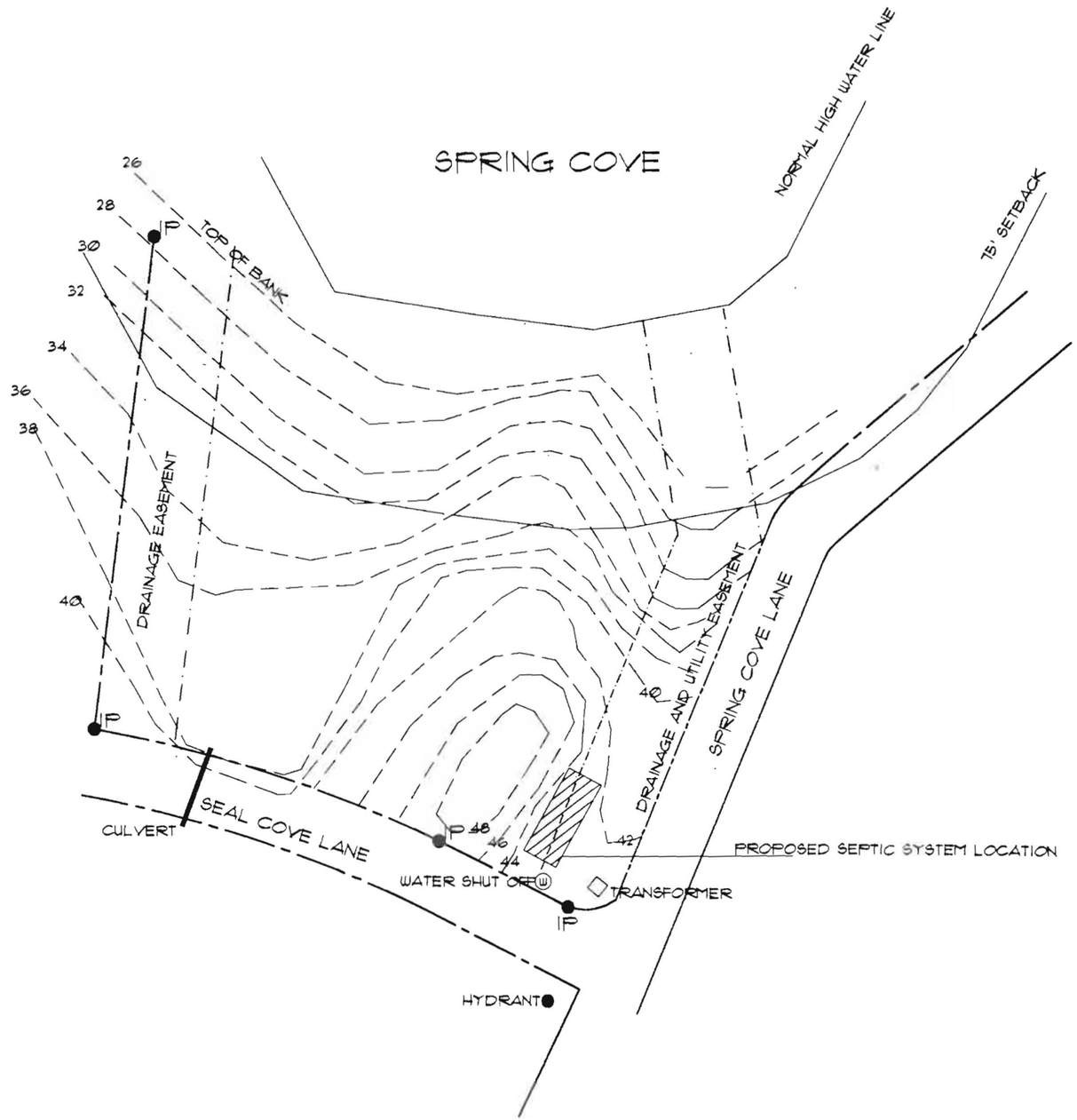
SPRING COVE

BATTERY THOMPSON

OCEAN

ATLANTIC

OPEN SPACE
RECREATION AREA
14,186 SF +-



NOTES:

CONTOURS COPIED FROM PLAN SUPPLIED BY OTHERS

SITE DETAILS LOCTED WITH TRIMBLE GPS UNIT

SEPTIC SYSTEM DESIGN BY DAVE KAMILA, SE #185

PARCEL IS LOT 22 OF DIAMOND COVE SUBDIVISION

N

GRAPHIC SCALE

50 0 25 50 100

(IN FEET)

1 inch = 50 ft.

SITE PLAN

PINKHAM & GREER
CONSULTING ENGINEERS, INC.
FALMOUTH, MAINE

DIAMOND COVE
DIAMOND ISLAND, ME.

SCALE: 1"=50'
DATE: 12/2/99
DESG BY: ALB
PROJECT: 99705

C1

CAD FILE: 99705 FILE SCALE: 1"=50'