Form # P 04

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK

CITY OF PORTLAND

B[illegible]CTION

PERMIT

Please Read Application And Notes, If Any, Attached

Permit Number: 040279.

This is to certify that Breakwater School/The Thax[illegible] Compa[illegible]

has permission to Adding elevator to new build[illegible]

AT 856 Brighton Ave [illegible] L 259 D001001

provided that the person or persons, [illegible]m or [illegible]epting this permit shall comply with a[illegible] of the provisions of the Statutes of M[illegible]ne and of th[illegible]nces of the City of Portland regulatin[illegible] the construction, maintenance and u[illegible] of buildings and st[illegible]tures, and of the application on file i[illegible] this department.

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

N[illegible]ication[illegible] inspec[illegible]n must gi[illegible] and w[illegible]n permis[illegible]n procu[illegible] b[illegible]e this b[illegible]ding o[illegible]t there[illegible] la[illegible]d or c[illegible]closed-in. [illegible] H[illegible]R NOTICE IS REQUIRED.

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

OTHER REQUIRED APPROVALS

Fire Dept. [illegible]

Health Dept. _____

Appeal Board _____

Other _____
Department Name

3/29/04
Director - Building & Inspection Services

PENALTY FOR REMOVING THIS CARD

BUILDING PERMIT INSPECTION PROCEDURES
Please call 874-8703 or 874-8693 to schedule your inspections as agreed upon

Permits expire in 6 months, if the project is not started or ceases for 6 months.

The Owner or their designee is required to notify the inspections office for the following inspections and provide adequate notice. Notice must be called in 48-72 hours in advance in order to schedule an inspection:

By initializing at each inspection time, you are agreeing that you understand the inspection procedure and additional fees from a "Stop Work Order" and "Stop Work Order Release" will be incurred if the procedure is not followed as stated below.

JB **Pre-construction Meeting**: Must be scheduled with your inspection team upon receipt of this permit. ~~Jay Reynolds, Development Review Coordinator at 874-8632~~ must also be contacted at this time, before **any** site work begins on any project other than single family additions or alterations.

NA **Footing/Building Location Inspection**: Prior to pouring concrete

NA **Re-Bar Schedule Inspection:** Prior to pouring concrete

NA **Foundation Inspection:** Prior to placing ANY backfill

✓ **Framing/Rough Plumbing/Electrical:** Prior to any insulating or drywalling

✓ **Final/Certificate of Occupancy:** Prior to any occupancy of the structure or use. NOTE: There is a $75.00 fee per inspection at this point.

Certificate of Occupancy is not required for certain projects. Your inspector can advise you if your project requires a Certificate of Occupancy. All projects DO require a final inspection

✓ **If any of the inspections do not occur, the project cannot go on to the next phase, REGARDLESS OF THE NOTICE OR CIRCUMSTANCES.**

NA **CERIFICATE OF OCCUPANICES MUST BE ISSUED AND PAID FOR, BEFORE THE SPACE MAY BE OCCUPIED**

Rick Nasl, ReMaxler Co. 3/31/04

Signature of Applicant/Designee Date

Jeanne Bourke 3/31/04

Signature of Inspections Official Date

CBL: 259 D001 Building Permit #: 04 0279

PERMIT ISSUED

City of Portland, Maine - Building or Use Permit Application

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

Permit No:	Issue Date:	CBL:
04-0279	MAR 3 0 2004	259 D001001

CITY OF PORTLAND

Location of Construction:	Owner Name:	Owner Address:	Phone:
856 Brighton Ave	Breakwater School	856 Brighton Ave	207-772-8689
Business Name:	**Contractor Name:**	**Contractor Address:**	**Phone**
n/a	The Thaxter Company	55 Bell Street Portland	2078785553
Lessee/Buyer's Name	**Phone:**	**Permit Type:**	**Zone:**
n/a	n/a	Additions - Commercial	R3

Past Use:	Proposed Use:	Permit Fee:	Cost of Work:	CEO District:
Commercial / Multi Use	Multi Use / Adding elevator to new building	$381.00	$40,000.00	3

FIRE DEPT: ☑ Approved ☐ Denied

Signature:

INSPECTION: Use Group: A3 Type: 5B

3/29/04

Signature:

Proposed Project Description:
Adding elevator to new building

PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.)

Action: ☐ Approved ☐ Approved w/Conditions ☐ Denied

Signature: Date:

Permit Taken By:	Date Applied For:
gg	03/18/2004

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 Approval

Special Zone or Reviews	Zoning Appeal	Historic Preservation
☐ Shoreland	☐ Variance	☑ Not in District or Landmark
☐ Wetland	☐ Miscellaneous	☐ Does Not Require Review
☐ Flood Zone	☐ Conditional Use	☐ Requires Review
☐ Subdivision	☐ Interpretation	☐ Approved
☐ Site Plan	☐ Approved	☐ Approved w/Conditions
Maj ☐ Minor ☐ MM ☐	☐ Denied	☐ Denied
Date: 3/23/04	Date:	Date:

CERTIFICATION

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

SIGNATURE OF APPLICANT ADDRESS DATE PHONE

RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE DATE PHONE

City of Portland, Maine - Building or Use Permit

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

Permit No:	Date Applied For:	CBL:
04-0279	03/18/2004	259 D001001

Location of Construction:	Owner Name:	Owner Address:	Phone:
856 Brighton Ave	Breakwater School	856 Brighton Ave	207-772-8689
Business Name:	**Contractor Name:**	**Contractor Address:**	**Phone**
n/a	The Thaxter Company	55 Bell Street Portland	(207) 878-5553
Lessee/Buyer's Name	**Phone:**	**Permit Type:**	
n/a	n/a	Additions - Commercial	

Proposed Use:	Proposed Project Description:
Multi Use / Adding elevator to new building	Adding elevator to new building

Dept: Zoning **Status:** Approved **Reviewer:** Marge Schmuckal **Approval Date:** 03/23/2004

Note: **Ok to Issue:** ☑

Dept: Building **Status:** Approved with Conditions **Reviewer:** Mike Nugent **Approval Date:** 03/29/2004

Note: **Ok to Issue:** ☑

1) Must comply w/State Elevator rules

Dept: Fire **Status:** Approved with Conditions **Reviewer:** Lt. MacDougal **Approval Date:** 03/24/2004

Note: **Ok to Issue:** ☑

1) fire recall shall be installed with the elevator

All Purpose Building Permit Application

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

Location/Address of Construction: 856 BRIGHTON AVE, PORTLAND, ME.

Total Square Footage of Proposed Structure: ADDING AN ELEVATOR

Square Footage of Lot: 12,960 —

Tax Assessor's Chart, Block & Lot
Chart# 259 Block# D001 Lot# 001

Owner: BREAKWATER SCHOOL

Telephone: 772-8689

Lessee/Buyer's Name (If Applicable)

Applicant name, address & telephone: THE THAYER COMPANY 55 BELL STREET, PTLD. ME 04101 878-5553

Cost Of Work: $ 40,000 —

Fire Dept: N/A

DEPT. OF BUILDING INSPECTION CITY OF PORTLAND

RECEIVED MAR 18 2004

Current use: NEW BUILDING TO BE MULTI-PURPOSE

If the location is currently vacant, what was prior use: _____

Approximately how long has it been vacant: _____

Proposed use: ADDING ELEVATOR TO NEW BUILDING — HOIST WAY HAS ALREADY BEEN REVIEWED + APPROVED ON EARLIER PERMIT ISSUED IN JULY OF '03.

Project description:

Contractor's name, address & telephone: SEE ABOVE

Who should we contact when the permit is ready: NICK NASH (653-9822)

Mailing address: 55 BELL STREET, PTLD. ME, 04101

We will contact you by phone when the permit is ready. You must come in and pick up the permit and review the requirements before starting any work, with a Plan Reviewer. A stop work order will be issued and a $100.00 fee if any work starts before the permit is picked up. **PHONE:** SAME as above

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

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

Signature of applicant: Nick Nash, V.P. The Thayer Co. as agent for Owner **Date:** 3-17-'04

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

CITY OF PORTLAND
BUILDING CODE CERTIFICATE
389 Congress St., Room 315
Portland, Maine 04101

ACCESSIBILITY CERTIFICATE

Designer: Scott Simons Architects

Address of Project: 856 Brighton Ave, Portland, ME 04102

Nature of Project: Addition of Elevator
Breakwater School Multi-Purpose Room
Addition to Existing Elementary School

The technical submissions covering the proposed construction work as described above have been designed in compliance with applicable referenced standards found in the Maine Human Rights Law and Federal Americans with Disability Act.

Signature: [signature]

Title: President

(SEAL)

LICENSED ARCHITECT
SCOTT R. SIMONS
NO. 2034
STATE OF MAINE

Firm: Scott Simons Architects

Address: ~~[illegible]~~ 75 York Street
Portland, ME 04101

Phone: 207-772-4656

CITY OF PORTLAND
BUILDING CODE CERTIFICATE
389 Congress St., Room 315
Portland, Maine 04101

TO: Inspector of Buildings City of Portland, Maine
Department of Planning & Urban Development
Division of Housing & Community Service

FROM: Scott Simons Architects

RE: Certificate of Design

DATE: March 18, 2004

These plans and / or specifications covering construction work on:

Breakwater School

Multi-purpose Room Elevator

Have been designed and drawn up by the undersigned, a Maine registered Architect / Engineer according to the ~~BOCA~~ ***National Building Code / 1999 (Fourteenth Edition)*** and local amendments.

(SEAL)

LICENSED ARCHITECT
SCOTT R. SIMONS NO. 2034
STATE OF MAINE

Signature:

Title: President

Firm: Scott Simons Architects

Address: 75 York Street
Portland, ME 04101

As per Maine State Law:

$50,000.00 or more in new construction, repair expansion, addition, or modification for Building or Structures, shall be prepared by a registered design Professional.

OTIS

NEW ELEVATOR PROPOSAL

DATE: February 26, 2003

TO: **Nick Nash**
THE THAXTER COMPANY
55 Bell Street
Portland, ME 04113

FROM:
Otis Elevator Company
35 Bradley Drive
Westbrook, ME 04092

PROJECT LOCATION: Multi-Purpose Building

BREAKWATER SCHOOL
856 Brighton Ave.
Portland, ME 04102

SCHEDULE:

Electrical, Current & Hoistway/Machine Room Ready By:
Installation in Running Order By:

EQUIPMENT SUMMARY:

One Otis Holeless Hydraulic Passenger Elevator, model LVM2500L; Capacity: 2500 LBS; Speed; 100 FPM; Rise: 9'-6"; Stops / Openings: Two (2) in line; 208 volts, 3 phase; Otis LVM cab design, Enamel Entrance frames and doors; Include Aut-O-Safe; as per Otis Proposal Letter CMD00515 dated February 5, 2004.

ACCEPTANCE

This proposal, including the provisions printed on the pages following, shall be a binding contract between you, or the party identified below for whom you are authorized to contract (collectively referred to herein as "you"), and us when accepted by you through execution of this proposal by you and approved by our authorized representative; or by your authorizing us to perform work for the project and our commencing such work.

Submitted by: _____
Carl M. Dick, Sr. Acc. Executive

Accepted in Duplicate

CUSTOMER
Approved by Authorized Representative

Date: 3/5/2004

Signed: X Richard D. Nash, V.P.

Print Name: Nicholas D. Nash

Title: Vice President

Name of Company: The Thaxter Company

OTIS ELEVATOR COMPANY
Approved by Authorized Representative

Date: _____

Signed: _____

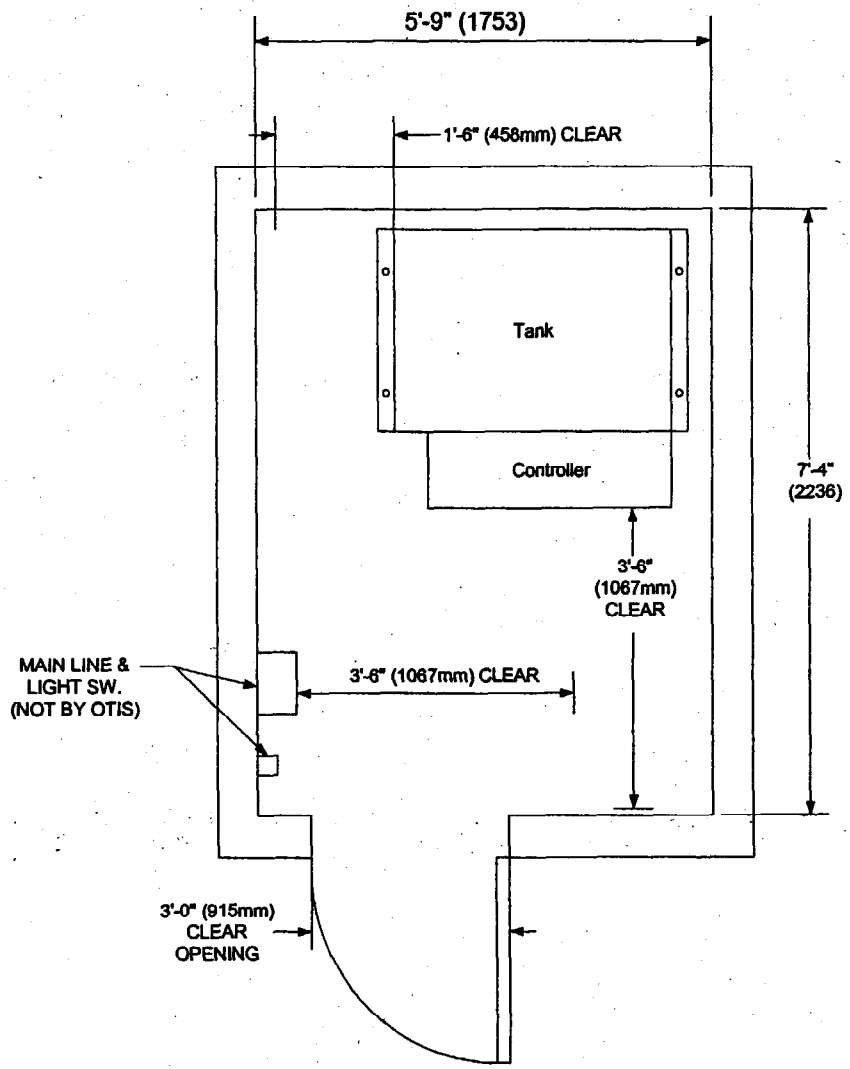
Print Name: _____

Title: _____

☐ Principal, Owner or
Authorized Representative of Principal or Owner

☐ Agent _____
(Name of Principal or Owner)

SIMPLEX MACHINE ROOMS



NOTES:

1. Machine room size reflects the typical worst case condition and Otis' largest tank size.
2. All Machine room sizes and clearances are ANSI & NEC Compliant. Consult your local code for clearances required in your area.
3. It is recommended that a minimum clearance of 4" be maintained between the tank and the machine room wall.
4. The preferred machine room location is adjacent to the hoistway at the lowest landing, however, remote rooms are acceptable.

REMOTE LOCATION APPROX 32' NORTH

Department of Human Services, Bureau of Health,
Division of Health Engineering
Wastewater and Plumbing Control Program Newsletter
Volume 23, Issue #13 March, 2004
Internet: http://www.maine.gov/dhs/eng/plumb/

Program Director's Message

One issue that has received attention recently is the need for continuing professional development credits for licensed site evaluators. The quality of site evaluations has improved significantly since the program's inception in the mid 70's. The ever increasing complexity and interdependency of land use regulations and the myriad of products available for use in the design of subsurface wastewater disposal systems requires today's site evaluators to stay current in order to practice effectively.

We are considering some form of CPD requirement which would be a condition of license renewal. The program may be voluntary or mandatory and would likely specify some number of contact hours to be earned each year. The Department would publish a list of acceptable courses, seminars, and activities, and would add to that list upon request and review of the activity. I would note that presently, local plumbing inspectors are required to earn 36 contact hours in a five year period to maintain their certification, and voluntarily certified installers are asked to attend four hours of training every two years. We welcome your comments.

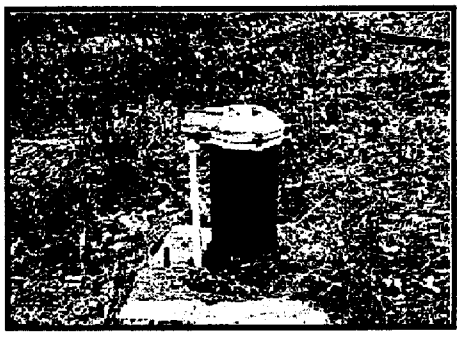
We are analyzing the subsurface permit database which extends back to 1991 and includes approximately 130,000 records. A paper reviewing trends will be proposed to the National Onsite Wastewater Recycling Association for presentation at their November meeting in Albuquerque, New Mexico. When completed this presentation will be given in state and made available on our website.

Public hearing held for MLS & Subsurface Wastewater Disposal Rules

The Wastewater and Plumbing Control Program held a public hearing on Tuesday, February 3, 2004 to accept public comments on proposed changes to the Subsurface Wastewater Disposal Rules (CMR 241) and the Minimum Lot Size Rules (CMR 243). Several interested persons attended and offered verbal comments on the proposed changes. The record remained open until Tuesday, February 13, 2004 to accept written comments. A response summary will be issued shortly.

Public water supply wells and setbacks

A public water system is defined as any publicly or privately owned system of pipes, structures and facilities through which water is obtained for or sold, furnished or distributed to the public for human consumption; if such system has at least 15 service connections or serves at least 25 individuals daily at least 60 days out of the year. The term "public water system" shall include any collection, treatment, storage or distribution pipes, structures or facilities under the control of the supplier of water and used primarily in connection with such system, and any collection or pretreatment storage facilities not under such control which are used primarily in connection with such systems. - ***From the Maine Rules Relating to Drinking Water.***



This means that if a property owner serves water from the property owner's own source (well or surface intake) to 25 or more people per day ***and*** operates for 60 or more days per year, or has 15 or more service connections, the property owner is operating a public water system. There are three types of public water systems and each is regulated differently. A transient public water system is the type of public water supply most likely to be encountered by Site Evaluators. A transient public water system is a public water system which serves water to a constantly changing population of consumers. Examples include restaurants, camps and campgrounds, motels

and hotels, and bottled water companies.

When designing an onsite sewage disposal system adjacent to a public water supply well, the setback from the disposal area to the well is 300 feet, regardless of the design flow of the system. Variances may be considered (and are required) for both first time and replacement systems on a case by case basis, by both the Wastewater and Plumbing Control Program and the Drinking Water Program. Reductions in the setback from public water supply wells may require advanced wastewater treatment, increased testing, water supply disinfection, additional well casing, and/or other protective measures. However, in accordance with Federal Safe Drinking Water Act, no variances of less than 150 feet can be considered, whether for new wells or for existing wells subject to a change in use.

SE written exam scheduled for 4/28

The 2004 Site Evaluator written examination is scheduled for April 28, 2002 in Augusta. Persons interested in taking the examination must contact Jay Hardcastle, State Site Evaluator, as quickly as possible.

JETCC Winter Training

The Joint Environmental Training Coordinating Committee, in association with the Maine County Soil and Water Conservation Districts, presents ***On-site Wastewater System Installer's Workshops*** each winter. The workshops are in the planning stages. Contact J.E.T.C.C. at (207) 767-2649 for schedules and information on attending the workshops.

Changes to engineered system application process

There were some significant changes to Chapter 11 of the Rules this past February. Most notably, the Program will now require a pre-application discussion with the design engineer; a formal Engineered System Application Form will be required as part of the application process; and the requirements for the hydraulic mounding analysis and site transmissivity analysis will be explained in greater detail.

For several years now, the program has encouraged Professional Engineers to participate in a pre-application meeting prior to submitting engineered system applications for review. This has allowed all parties to spot problems before they became obstacles, and the engineers had the opportunity to get the Program's regulatory perspective relatively early in the process. We have found that these meetings are extremely useful to all parties in the application process, including ourselves. The majority of these meetings have taken place in the Program's office, while some have taken place in the field.

We will now require an application form be completed for all engineered system applications (copy enclosed), to promote uniformity of submissions and to reduce the number of incomplete applications we receive. A copy of the form, HHE-220, is attached and is also available for downloading on our web site.

The mounding analysis will now require that any additional vertical separation distance needed to offset mounding effects and maintain compliance with Section 605.0 of the Rules be stated in the mounding analysis report. The transmissivity analysis will now specify that the standard does not include normal discharges of groundwater to springs, major or minor watercourses, or other surface waters and wetlands located at or beyond setback distances established in Chapter 7 of the Rules, or lesser setbacks approved by variance.

Updated Enforcement Manual available

The Program formerly published an Enforcement Manual, for use by Local Plumbing Inspectors. This manual contained statutory references, enforcement processes, sample forms and letters, and rationale for enforcement of both the Subsurface Wastewater Disposal Rules and the Internal Plumbing Rules. Publication ceased in the early 1990s.

This manual is once again available, in downloadable online versions as well as printed hardcopies. The Enforcement manual has been revised, to reflect changes in law and the transfer of promulgation of the Internal Plumbing Rules to the Plumbers Examining Board.

Review of licensed establishments required

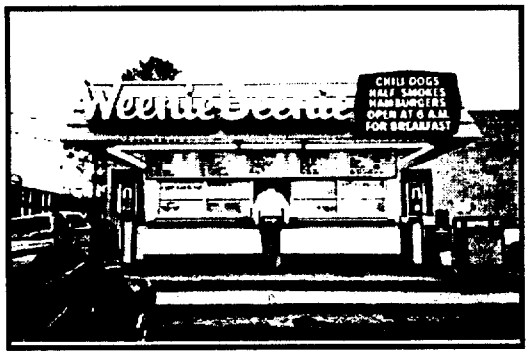
One of the changes to the Subsurface Wastewater Disposal Rules includes a revised review procedure for facilities licensed by the Department of Human Services. Note that this includes facilities licensed by the Department, not only those licensed by the Division of Health Engineering. These facilities are primarily, although not exclusively, eating places (excluding those licensed by the Department of Agriculture), lodging places, campgrounds, managed care facilities, and daycare facilities.

The following changes to a licensed establishment's

status will now require a review of the subsurface wastewater disposal system by the Department before the LPI may issue a permit:

- The planned installation of a new, expanded, or replacement system; or

- Any planned increase in the licensed establishment's capacity.



The owner of the establishment shall submit the following items to satisfy these requirements:

- A clear description of the past, present, and intended future use of the establishment; and

- A description of any existing subsurface wastewater disposal systems proposed for use; and

- A copy of the HHE-200 form for any new, expanded, or replacement systems; and

- The review fee listed in Table 110.3 of the Rules.

Design flow percentile example from Rules change

The Rules will soon (July, 2004) allow for an adjustment of water use records on a statistical basis. For example, proposed Section 503.2.4 states "If water use records are recorded on a quarterly basis, the 95th percentile value calculated using standard statistical methods shall be used for the design flow." The 95th percentile value is that value to which 95 percent of the values under consideration are equal or lower than. Using the sample quarterly data below, the 95th percentile value would be 251 gallons per day (for sake of example, 90 day intervals were assumed.).

Date	cubic feet	gallons	# days	avg. gpd
7-Jan-2001	2259	16899.58	90	187.77
5-Apr-2001	2826	21141.31	90	234.90
5-Jul-2001	2997	22420.56	90	249.12
6-Oct-2001	2511	18784.79	90	208.72
7-Jan-2002	2556	19121.44	90	212.46
5-Apr-2002	2673	19996.71	90	222.19
5-Jul-2002	3042	22757.20	90	252.86
6-Oct-2002	2574	19256.09	90	213.96
3-Jan-2003	2385	17842.19	90	198.25
8-Apr-2003	2943	22016.58	90	244.63
3-Apr-2003	2709	20266.03	90	225.18
6-Oct-2003	2448	18313.49	90	203.48

The Program has created a Microsoft Excel 2000 spreadsheet that performs these calculations, and from which this example is taken. The spreadsheet is available for downloading on our web site.

Permit fees need to be accurately listed

Many municipalities charge permit fees higher than the State minimum. We have received many labels from these communities this past year, for applications with the locally adopted fees listed, rather than the State minimum. Our data base is designed to accept the State minimum permit fees, which are a minimum of $24.00, or $6.00 per fixture on internal plumbing application (HHE-211 Form). On the subsurface wastewater disposal system (HHE-200 Form) the application fee would be engineered system-$200.00, non-engineered system-$100.00, primitive system-$100.00, etc. Any fees over and above the State minimum should not be put on these labels, since the municipality keeps all such additional fees. Following this procedure will help prevent an incorrect statement from being generated.

On a related issue, the LPI must not issue a permit for an HHE-200 Form if it requires a state approval. It must be sent into this Department for review and approval before it is permitted by the municipality. We mention this, since we have received many permits this past year for designs that required, but did not yet receive, Departmental approval.

Recently Approved Products

The following products have been approved since the September 2003 newsletter. Contact James Jacobsen with any questions.

Polylok PL-68 Effluent Filter.

The Polylok PL-68 Effluent Filter consists of a plastic slotted filter. The Polylok PL-68 Effluent Filter is designed for use with conventional septic tanks. the Polylok PL-68 Effluent Filter will trap particles larger than 1/16 inch diameter from passing. Contact: Polylok Inc., Attn. Betsy Chaffet, 173 Church Street, Yalesville, CT 06492.

FRALO Plastech Plastic Septic Tanks.

The FRALO Plastech Plastic Septic Tanks consist of models # ST-750, ST-1060, ST-1250, and ST-1500. In each instance, the model number corresponds with the tank capacity in gallons. The FRALO Plastech Plastic Septic Tanks are designed for use with conventional on-site sewage disposal areas. Contact: FRALO Plastech, Attn.: Mark Jones, PE, One General Motors Drive, Syracuse, NY 13206.

Zabel Z-200 and Z-200D Flow Dividers.

The Z-200 and Z-200D Flow Dividers were revised in design by inclusion of dual inlet and outlet hubs to accommodate four inch diameter Schedule 40 and four inch diameter SDR pipe. Contact: Zabel Environmental Technology, Attn.: Theo B. Terry, III RS, P. O. Box 1520, Crestwood, Kentucky 40014.

Septi-chip tire chips.

The Septi-chip tire chips have been approved as a proprietary device. The product consists of chipped used automobile tires. The Septi-chip tire chips are intended for use with conventional onsite sewage disposal areas. Chip sizes range from 3/8 inch to four inches diameter, based upon a nominal chip size of two inches. Installation of Septi-chip tire chips includes covering the disposal area with a layer of nonwoven filter fabric, specifically, Cultec 410 filter fabric or equivalent. Among other conditions of approval, Septi-chip tire chips are allowed for use in Maine as a substitute for stone aggregate, with the same square foot rating as stone aggregate, provided that the product must be specifically included in a design (HHE-200 Form); and shall not be installed in lieu of stone in a design that specifies stone, absent a revision of the design by a licensed site evaluator.

Staff Roster

Russell Martin, PE, 287-4735
Program Director

Jay Hardcastle, 287-5688
Site Evaluator Licensing Program

James Jacobsen, 287-5695
Engineered Plans, Products Review, Webmaster

Linda Robinson, 287-5687
Variances

Brent Lawson, 287-5670
State Plumbing Inspector

Dina LaFlamme, 287-5689
Secretary

Wendy Austin, 287-5672
Plumbing Permits & Data Entry

Maine Department of Human Services
Bureau of Health
Division of Health Engineering
Wastewater & Plumbing Control Program

APPLICATION FOR ENGINEERED SUBSURFACE WASTEWATER DISPOSAL SYSTEM

Please complete the following Sections. Please print or type.

Applicant/Owner

Company Name: _____

Contact Person: _____

Address: _____

Town/City: _____ State/Province: _____ Zip/Postal Code: _____

Country: _____

Telephone: _____ Fax: _____

e-mail: _____

Design Engineer

Company Name: _____

Contact Person: _____

Address: _____

Town/City: _____ State: _____ Zip Code: _____

Telephone: _____ Fax: _____

e-mail: _____

1. Property Location

Town/City: _____ County: _____

Tax Map and Lot Number: Map_____ Lot _____

Attach as **"Exhibit A"** a copy of the relevant section of the USGS 7.5' topographic map, if available, or 15' topographic map showing the location of the proposed engineered disposal system.

2. Project Description

Provide a brief written description of the proposal. Use a separate sheet if necessary.

3. Design Flow

The design flow for this project is: _____ gallons per day. Provide design flow calculations and assumptions used in the calculations. Use a separate sheet if necessary.

4. Mounding Analysis

Submit as **"Exhibit B"** an analysis of the proposed system design showing that there is adequate vertical separation between the bottom of the disposal field and any mounded water table. Include all calculations and assumptions used.

5. Transmissivity Analysis

Submit as **"Exhibit C"** an analysis of the proposed system design showing that there are sufficient suitable soils down-gradient to prevent the effluent from surfacing within 50 feet of the disposal field. Include all calculations and assumptions used.

6. HHE-200 and Variance Form(s)

Submit as **"Exhibit D"** a complete HHE-200 Form, and variance forms if applicable, signed by a Professional Engineer. The design engineer may reference associated plans and soil test pit logs on pages 2 and 3 of the HHE-200 Form.

This project requires:

[ ] a First Time System Variance to the Maine Subsurface Wastewater Disposal Rules.

[ ] a Replacement System Variance to the Maine Subsurface Wastewater Disposal Rules.

[ ] no variance to the Maine Subsurface Wastewater Disposal Rules.

7. Operations and Maintenance Manual

Submit as **"Exhibit E"** an operations and maintenance manual for the owner with written recommendations for the operation and maintenance of the system, including inspection schedules, pumping schedules, and record keeping procedures.

8. Soil and Site Conditions

Submit as **"Exhibit F"** soil test pit logs prepared by a licensed Site Evaluator. The test pits shall be of sufficient number to accurately describe the site conditions under the proposed disposal area and the down gradient fill extension.

9. Plans

Submit as **"Exhibit G"** plans for the proposed engineered disposal system meeting provisions of Section 1102 of the Maine Subsurface Wastewater Disposal Rules. Two sets of plans are required, or one set of plans and one set of copies no larger than 11" x 17". Plans may be submitted for review purposes on a floppy disk or compact disc in *AutoDesk* AUTOCAD *.dwg format (rev. 14 or lower), but a signed and stamped hard copy will be required upon final approval.

The plans shall also specify the latitude and longitude of the center of the disposal area(s), expressed as degrees, minutes, and seconds. If this data is obtained from an electronic GIS device, provide the device's margin of error.

10. Review Fee

Submit a check or money order in the amount of $100.00 U.S. made payable to the Treasurer of the State of Maine.

I, _____, am the design engineer for the subject design.
(print name)

I state that the information submitted is correct to the best of my knowledge and understand that any falsification is reason for the Department to deny the project.

_____	_____	_____
Signature of Design Engineer	P.E. License Number	Date

Please note: To ensure a timely review of the project, make sure that the application is complete when submitted to the Division of Health Engineering.

Incomplete applications can not be processed, and will be returned to the design engineer for completion, unprocessed.

Maine Department of Human Services
Bureau of Health
Division of Health Engineering
Wastewater & Plumbing Control Program

STATEMENT OF COMPLIANCE FOR ENGINEERED SYSTEM INSTALLATION

The design engineer shall provide the LPI, the owner and DHS with a copy of this completed document or an equivalent written statement. The design engineer should retain a copy.

I, _____(*please print*), am the design engineer for the engineered subsurface wastewater disposal system located at (*street and town/city*) _____

_____.

The property owner's name is: _____.

The permit number is: _____ .

[ ] I [ ] my representative(s) (*check both if appropriate*), according to the Maine Subsurface Wastewater Disposal Rules; the Subsurface Waste Water Disposal System Application, e.g., the HHE-200 form; and plans stamped and signed by _____P.E. license number_____ observed that the system was installed in compliance with the Rules and the conditions of approval. Any as-built changes from the approved drawings and specifications are attached.

Signature of design engineer: _____

P.E. license number _____

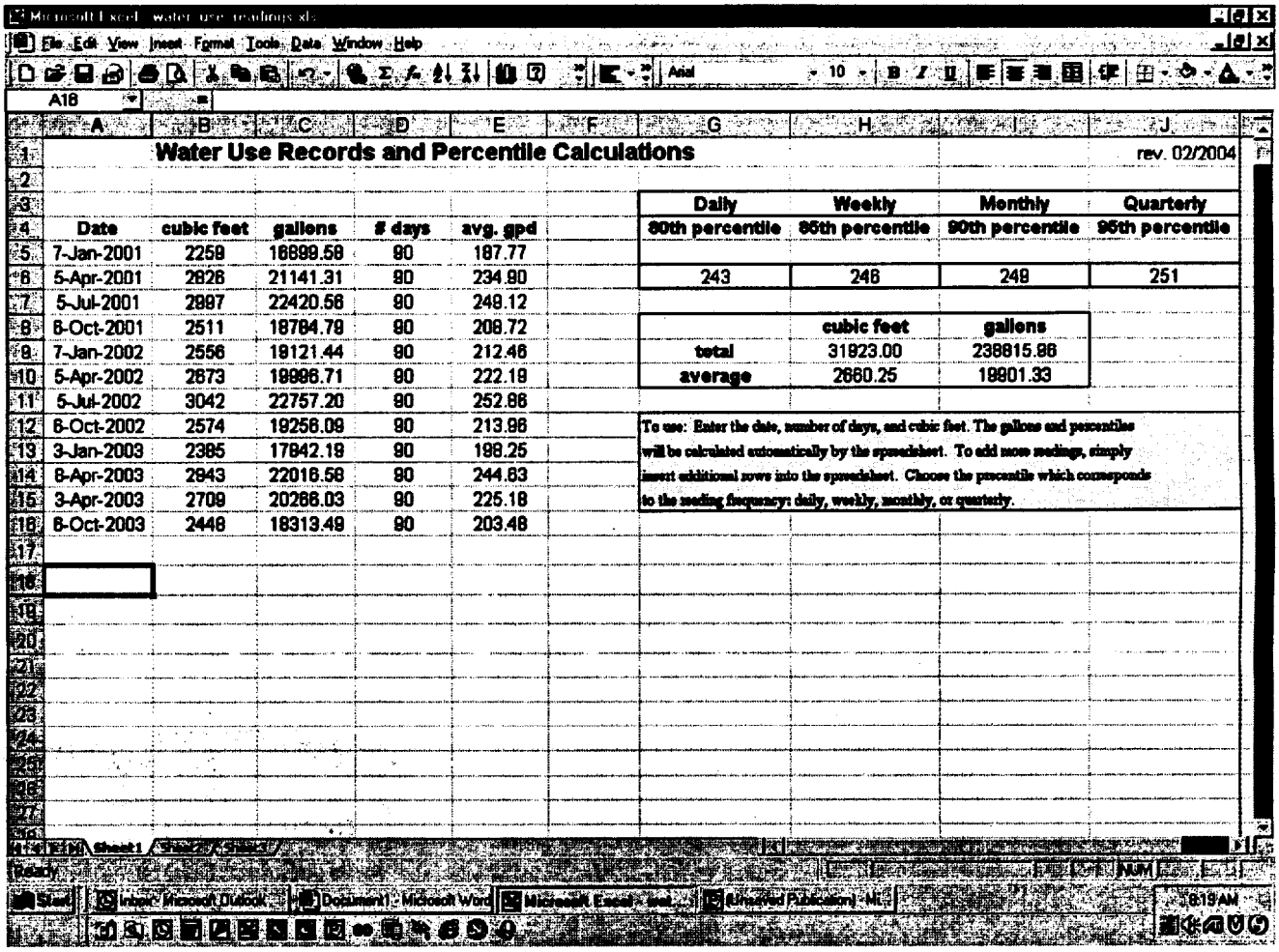
Date signed: _____/_____/_____
mm dd yy

Imprint License Stamp Above

State of Maine
Department of Human Services
11 State House Station
Augusta, Maine
04333-0011

John Elias Baldacci
Governor

John R. Nicholas
Acting Commissioner



Water Use Records and Percentile Calculations rev. 02/2004

Date	cubic feet	gallons	# days	avg. gpd
7-Jan-2001	2259	16899.58	90	187.77
5-Apr-2001	2826	21141.31	90	234.90
5-Jul-2001	2997	22420.56	90	249.12
6-Oct-2001	2511	18784.78	90	208.72
7-Jan-2002	2556	19121.44	90	212.46
5-Apr-2002	2673	19996.71	90	222.19
5-Jul-2002	3042	22757.20	90	252.86
6-Oct-2002	2574	19256.09	90	213.96
3-Jan-2003	2385	17842.19	90	198.25
6-Apr-2003	2943	22016.58	90	244.63
3-Apr-2003	2709	20266.03	90	225.18
6-Oct-2003	2448	18313.49	90	203.48

Daily	Weekly	Monthly	Quarterly
80th percentile	85th percentile	90th percentile	95th percentile
243	246	248	251

	cubic feet	gallons
total	31923.00	238815.86
average	2660.25	19901.33

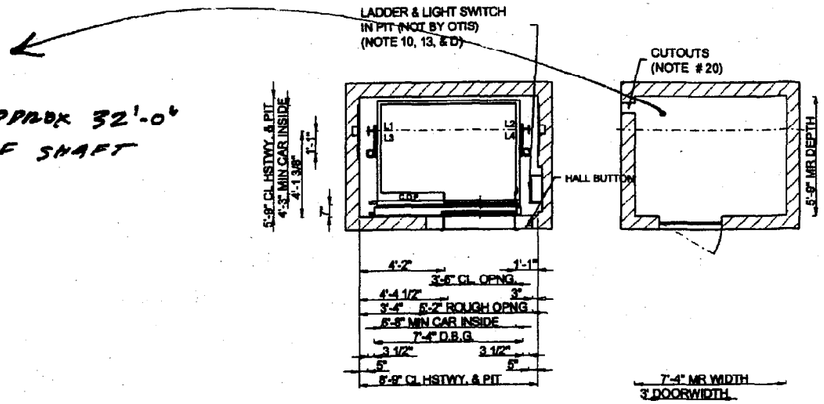
To use: Enter the date, number of days, and cubic feet. The gallons and percentiles will be calculated automatically by the spreadsheet. To add more readings, simply insert additional rows into the spreadsheet. Choose the percentile which corresponds to the reading frequency: daily, weekly, monthly, or quarterly.

The Wastewater and Plumbing Control Program has created a simple Excel spreadsheet to assist site evaluators, when using the water use record adjustments in the Rules changes that will take effect in July of 2004. The spreadsheet is available for downloading on the Program's web site.

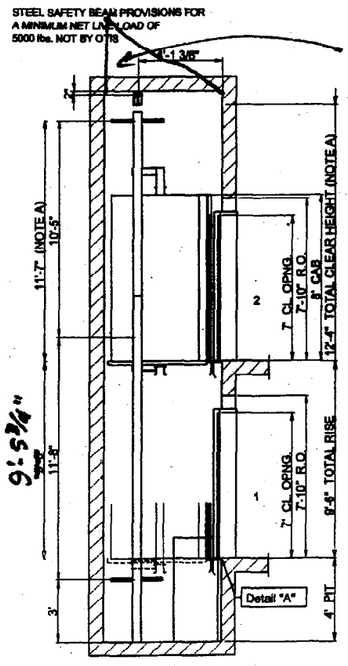
To use the spreadsheet, appropriate values are inserted into columns A, B, and D. Formulae in columns C and E automatically convert cubic feet to gallons and the average gallons per day, respectively. For the sake of discussion, 90 day reading intervals were assumed in the example above, although any value can be inserted.

Cells G6, H6, I6, and J6 automatically calculate the 80th, 85th, 90th, and 95th percentiles for Column E. Then the user simply chooses the value that corresponds to the frequency for readings. For example, since these readings are quarterly, the 95th percentile is chosen, with a value of 251 gpd.

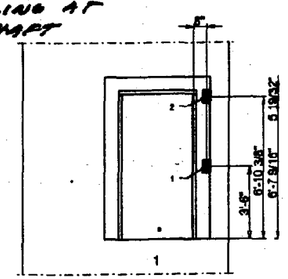
Department of Human Services, Bureau of Health,
Division of Health Engineering
Wastewater and Plumbing Control Program
161 Capitol Street, Augusta, ME 04333-0011
Tel. 207-287-5689 TTY 207-287-2070 Fax 207-287-3165
Internet: http://www.maine.gov/dhs/eng/plumb/



PLAN VIEW

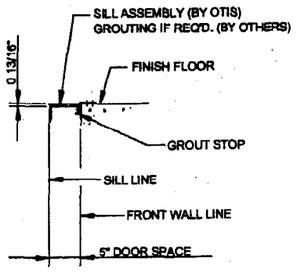


SECTIONAL ELEVATION

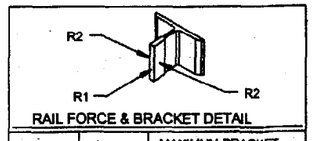


1. HALL BUTTON AT ALL FLOORS
2. OPTIONAL HALL POSITION INDICATOR OR HALL LANTERN (TYPICAL LOCATION WITH 7'-0" / 2134 OPENING).

ENTRANCE VIEW



DETAIL "A"
ADEQUATE SUPPORT AT ALL FASTENING POINTS OF ENTRANCE ASSEMBLY REQUIRED. (NOT BY OTIS)



RAIL FORCE & BRACKET DETAIL

R1	R2	MAXIMUM BRACKET SPACING
186 lbs	69 lbs	14'

NOTE A:
IF A FALL HAZARD EXISTS, INCREASE DIMENSION BY 5".

NOTE B:
SUMP OR DRAIN REQUIRED IN PIT (NOT BY OTIS). LOCATION TO BE COORDINATED WITH OTIS TO AVOID ELEVATOR COMPONENTS AND ACCESS AREA.

NOTE C:
HOISTWAY FACIA IS NOT SELF-SUPPORTING FOR LONG, CONTINUOUS RUNS VOID OF ENTRANCES. ADEQUATE SUPPORT FOR THE FACIA MUST BE PROVIDED BY OTHERS.

NOTE D:
IN AREAS REQUIRING COMPLIANCE TO ASME A17.1a-2002 INCREASE HOISTWAY & PIT WIDTH BY 2.5" EACH SIDE (5" OVERALL) OR PROVIDE CUTOUT FOR PIT LADDER: (CUTOUT = 26"W x 2.5"D x (PIT DEPTH + 48")H). CONSULT YOUR LOCAL OTIS REPRESENTATIVE TO CONFIRM YOUR SPECIFIC REQUIREMENTS AND LADDER LOCATION.

LVM 2500L
Passenger
Model Hydraulic
2500 lbs. @ 100 F.P.M.

HYDRAULIC PIPE TO COMFORM TO ASTM A106, GRADE B, SEAMLESS.
DIMENSIONAL DATA ON LAYOUT COMPLIES WITH ASME A17.1 AND/OR LOCAL CODE.

NORTH

DIRECTIONAL ARROW INDICATE NORTH FOR HOISTWAY AND MACHINE ROOM PLAN

RECEIVED
FEB 27 2004

IMPORTANT NOTES
GENERAL REQUIREMENTS BY OTHERS

1. PROPERLY FRAMED AND ENCLOSED LEGAL HOISTWAY INCLUDING VENTING AS REQUIRED BY THE GOVERNING CODE AND SAFETY BEAM AS SHOWN.
2. ADEQUATE SUPPORT FOR GUIDE RAIL FASTENINGS NOT TO EXCEED THE VERTICAL SPACING SHOWN ON THE RAIL BRACKET CHART. SEPARATOR BEAMS WHERE REQUIRED.
3. PROVISION FOR GUARDING AND PROTECTING THE HOISTWAY DURING CONSTRUCTION TO BE ERECTED, MAINTAINED, AND REMOVED BY OTHERS.
4. ALL CUTTING OR PATCHING TO ACCOMMODATE ELEVATOR INSTALLATION.
5. HOISTWAY WALLS ARE TO BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE REQUIRED FIRE RATING INCLUDING WHERE PENETRATED BY ELEVATOR FIXTURE BOXES, AND TO INCLUDE ADEQUATE FASTENINGS TO HOISTWAY ASSEMBLIES. A HORIZONTAL SUPPORT MUST BE PROVIDED 12" (305mm) ABOVE THE CLEAR OPENING AT EACH LANDING TO SUPPORT THE DOOR FRAME ASSEMBLY. THE ENTRANCE WALL AND THE FINISHED FLOOR MUST NOT BE CONSTRUCTED UNTIL THE FRAMES AND SILLS ARE SET.
6. FOR PRECAST OR POURED CONCRETE WALLS, PROVIDE THE ROUGH OPENING FOR HOISTWAY AS SHOWN ON LAYOUT, AND ANY GROUTING AROUND ENTRANCE FRAMES IF REQ'D.
7. SUITABLE MACHINE ROOM WITH LEGAL ACCESS AND MINIMUM HEIGHT OF 7'-6" (2286mm) TO BE PROVIDED. MACHINE ROOM TEMPERATURE MAINTAINED BETWEEN 60° & 100° F (15.5° & 37.8° C). RELATIVE HUMIDITY NOT TO EXCEED 95% NON-CONDENSING FOR HEATING, VENTILATION, AND AIR CONDITIONING REQUIREMENTS OTHER THAN THOSE SHOWN ABOVE REFER TO OTIS CONFIRMATION OF POWER SUPPLY FORM. MACHINE ROOM SIZE MAY VARY WITH LOCAL CODE. CONSULT YOUR OTIS REPRESENTATIVE.
8. A SEPARATE BRANCH CIRCUIT FOR SUITABLE LIGHT FIXTURE(S) AND CONVENIENCE OUTLETS, WITH G.F.I., IN THE MACHINE ROOM WITH THE LIGHT SWITCH LOCATED ADJACENT TO THE LOCK JAMB SIDE OF THE MACHINE ROOM DOOR.
9. FOR EACH ELEVATOR, A THREE PHASE ELECTRICAL FEEDER SYSTEM WITH A SEPARATE EQUIPMENT GROUNDING CONDUCTOR AND A SINGLE PHASE 120 VOLT LIGHTING SUPPLY. EACH WITH A FUSED DISCONNECT SWITCH OR CIRCUIT BREAKER, LOCATED IN THE MACHINE ROOM AND WIRED TO EACH CONTROLLER.
10. IN THE PIT, A SEPARATE BRANCH CIRCUIT FOR CONVENIENCE G.F.C.I. OUTLET & LIGHT FIXTURE WITH LIGHT SWITCH ADJACENT TO THE PIT LADDER.
11. ALL ELECTRIC POWER FOR TOOLS, LIGHT, HOIST, ETC., DURING ERECTION AS WELL AS ELECTRIC CURRENT FOR STARTING AND ADJUSTING THE ELEVATOR.
12. DRY PIT REINFORCED TO SUSTAIN VERTICAL FORCES OF UP TO:
    16730 LBS AT EACH BUFFER AND
    7028 LBS AT THE CYLINDER HEAD.
    THE ACCUMULATION OF WATER MUST BE PREVENTED.
13. A FIXED VERTICAL STEEL LADDER TO PIT EXTENDING 4'-0" (1219mm) ABOVE THE SILL OF THE BOTTOM ENTRANCE AS LOCATED IN THE PLAN VIEW. LADDER WIDTH AND PROJECTION FROM WALL PER LOCAL CODE. IF PIT DEPTH IS GREATER THAN 9'-10" (3000mm) [13'-6" WITH NO FLOOR BELOW BOTTOM LANDING] A PIT ACCESS DOOR IS REQ'D.
14. PIT FLOOR BENEATH CYLINDERS AND BUFFER TO BE FLAT AND LEVEL WITHIN 1/8" (3mm) FULL WIDTH HOISTWAY.
15. ELEVATOR CAB FLOORING MUST NOT EXCEED A THICKNESS OF 5/16" (8mm).
16. ONE (1) DEDICATED OUTSIDE TELEPHONE LINE TO THE ELEVATOR MACHINE ROOM MUST BE FURNISHED. TELEPHONE CONNECTIONS TO EACH CONTROLLER. TELEPHONE INSTRUMENT BY OTHERS.
17. ALL 125 VOLT, 15 OR 20 AMP, SINGLE PHASE DUPLEX RECEPTACLES INSTALLED IN PITS, MACHINE ROOMS OR MACHINERY SPACES, SHALL BE OF THE GROUND-FAULT-CIRCUIT-INTERRUPTER TYPE.
18. SMOKE DETECTORS, LOCATED AS REQUIRED, WITH WIRING FROM THE SENSING DEVICES TO A CONTROLLER DESIGNATED BY OTIS. FOR EACH GROUP OF ELEVATORS, PROVIDE A NORMALLY CLOSED CONTACT REPRESENTING THE SMOKE DETECTOR AT THE DESIGNATED RETURN LANDING. FOR EACH GROUP OF ELEVATORS, PROVIDE A NORMALLY CLOSED CONTACT REPRESENTING ALL SMOKE DETECTORS LOCATED IN LOBBIES, HOISTWAYS, OR MACHINE ROOMS, BUT NOT THE SMOKE DETECTOR AT THE DESIGNATED RETURN LANDING (SEE ABOVE) OR THE SMOKE DETECTORS AS DESCRIBED IN A & B BELOW:
    A) IF A SMOKE DETECTOR IS LOCATED IN THE HOISTWAY AT OR BELOW THE LOWER OF THE TWO RECALL LANDINGS, IT SHALL BE WIRED TO ACTIVATE THE SAME NORMALLY CLOSED CONTACT AS THE SMOKE DETECTOR LOCATED IN THE LOBBY AT THE LOWER OF THE TWO RECALL LANDINGS.
    B) IF MACHINE ROOMS ARE LOCATED AT THE DESIGNATED RETURN LANDING, THE SMOKE DETECTOR LOCATED THEREIN SHALL BE WIRED TO ACTIVATE THE SAME NORMALLY CLOSED CONTACT AS THE SMOKE DETECTOR AT THE DESIGNATED LANDING. FOR A SINGLE UNIT, OR GROUP OF ELEVATORS HAVING ONE COMMON MACHINE ROOM AND ONE COMMON HOISTWAY, PROVIDE ONE ADDITIONAL NORMALLY CLOSED CONTACT REPRESENTING ALL MACHINE ROOM AND HOISTWAY SMOKE DETECTORS. IF THE GROUP CONTAINS MORE THAN ONE HOISTWAY, AND HOISTWAY SMOKE DETECTORS ARE INSTALLED, OR IF THE GROUP HAS MORE THAN ONE MACHINE ROOM, PROVIDE ONE ADDITIONAL NORMALLY CLOSED CONTACT FOR EACH ELEVATOR. THE CONTACT IS TO REPRESENT THE SMOKE DETECTOR IN THE MACHINE ROOM FOR THAT PARTICULAR ELEVATOR, AND ANY SMOKE DETECTORS IN THE HOISTWAY CONTAINING THAT PARTICULAR ELEVATOR.
19. IF SPRINKLERS ARE INSTALLED IN THE HOISTWAY, MACHINE ROOM, OR MACHINERY SPACES, LOCAL CODE MAY REQUIRE A MEANS TO AUTOMATICALLY DISCONNECT THE MAIN POWER SUPPLY OF THE AFFECTED ELEVATOR PRIOR TO THE APPLICATION OF WATER (CONFIRM WITH LOCAL CODE OFFICIAL). SMOKE DETECTORS SHALL NOT BE USED TO ACTIVATE SPRINKLERS IN HOISTWAYS, MACHINE ROOMS OR MACHINERY SPACES OR TO DISCONNECT THE MAIN LINE POWER SUPPLY.
20. TWO (2) 8" X 6" (152mm x 152mm) CUTOUTS ARE REQUIRED (NOT BY OTIS). THE ACTUAL LOCATION OF THE CUTOUTS FOR THE TO AND FROM OIL PIPE AND ELECTRICAL TROUGH WILL VARY DEPENDENT UPON MACHINE ROOM LOCATION AND CONFIGURATION.

APPROVAL	
THIS ARRANGEMENT AND SUPPLEMENTARY NOTES APPROVED	
SIGNED	DATE
GUARANTEE	
HOISTWAY SIZE GUARANTEED PLUMB WITHIN 1" /25mm BUT NOT LESS THAN FIGURES SHOWN	
SIGNED	DATE

UNITED TECHNOLOGIES OTIS ELEVATOR

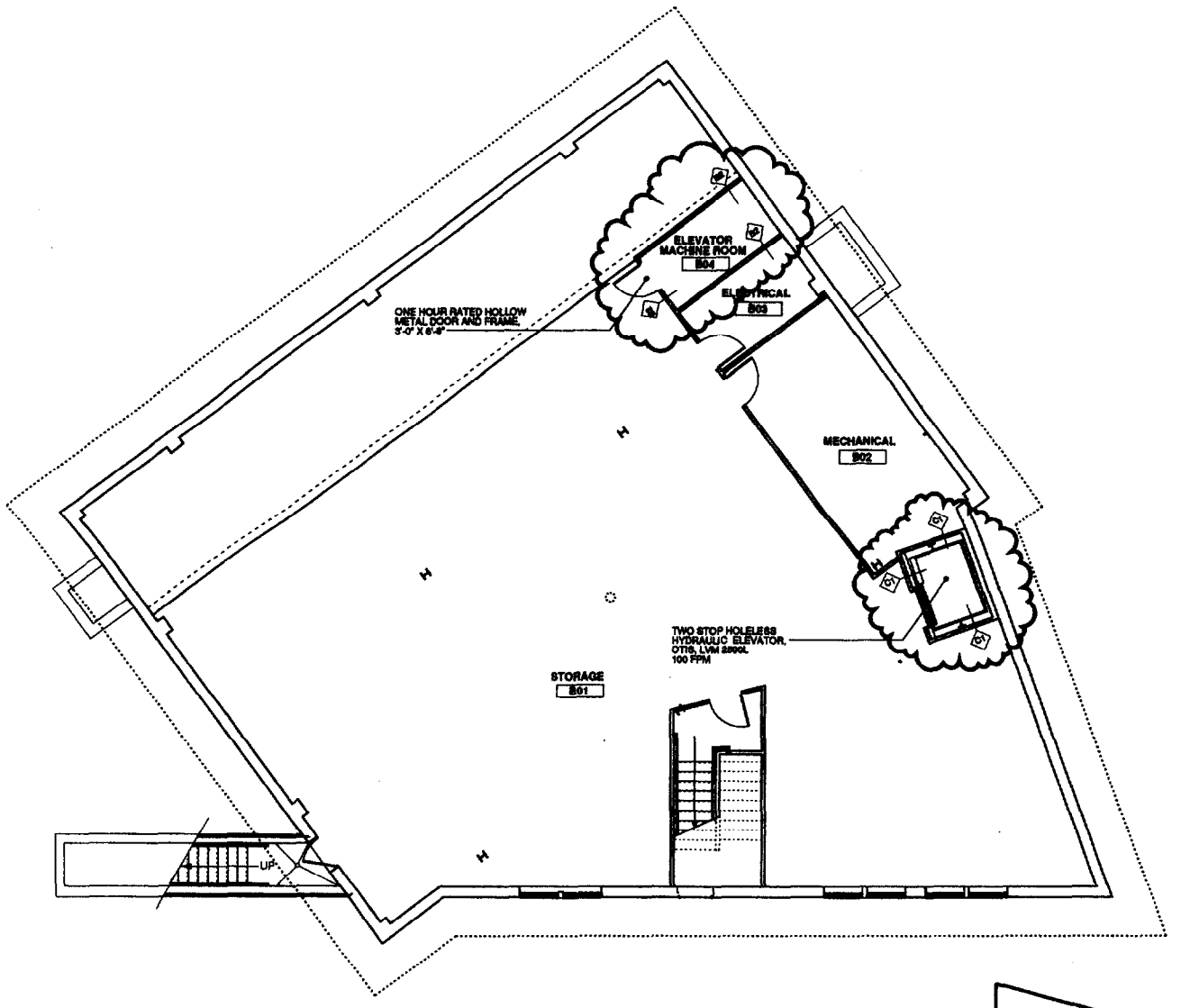
BUILDING	BREAKWATER SCHOOL
LOCATION	Portland, ME
CONTRACT WITH	The Thaxter Company
OWNER	Breakwater School
ARCHITECT	Scott Simons Architects
SEISMIC ZONE	0/1

DWG. NO. _____

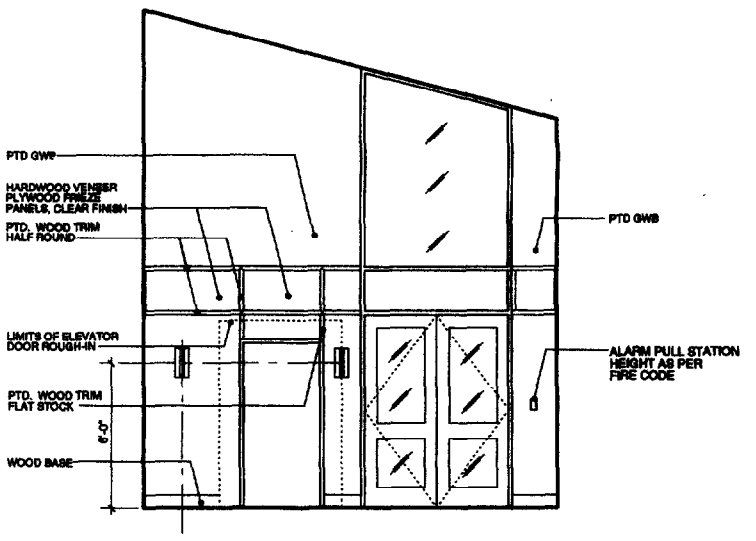
PARTITION SCHEDULE

P1 — 5/8" TYPE "X" GWB
3 1/2" METAL STUDS @ 16" O.C.
5/8" TYPE "X" GWB
(U.L. U419 OR U.L. U465)

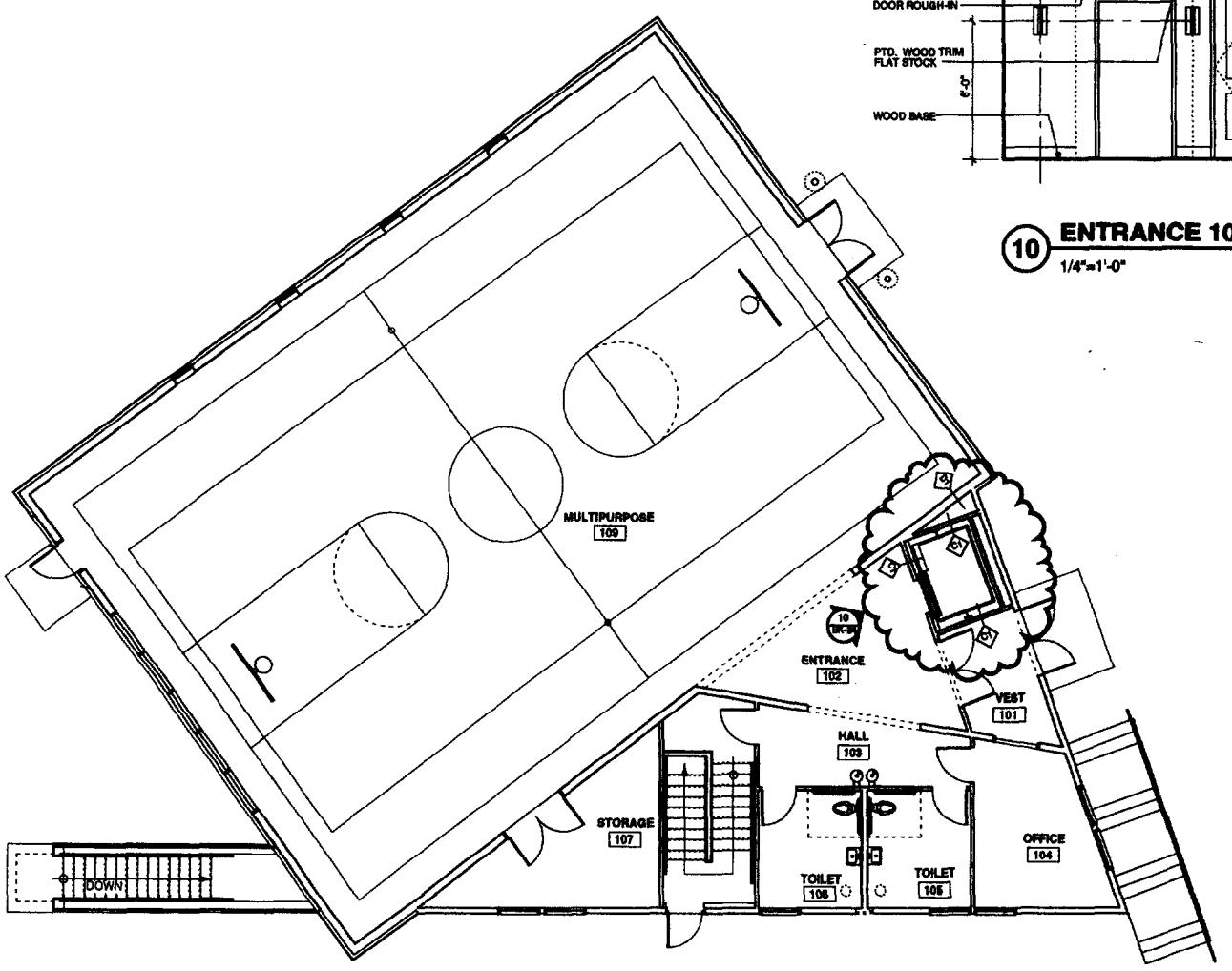
CT — CAVITY SHAFT WALL SYSTEM:
5/8" TYPE "X" GYP. BOARD (FINISHED SIDE OF WALL)
PERIMETER CAULK
"C-H" STUDS FROM FLOOR BELOW TO DECK ABOVE WITH 1" LINER
(1 HOUR RATING - COMPLY WITH U.L. DES. NO.U465.).
3-1/8" TOTAL THICKNESS.



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



10 **ENTRANCE 102**
1/4"=1'-0"



2 **FIRST FLOOR PLAN**
SCALE: 1/8" = 1'-0"

0 5 10 20 40

PLAN NORTH / TRUE NORTH

Scott Simons Architects
16 Franklin Street Art
Portland, Maine 04101
phone 207 772 4656
fax 207 828 4656

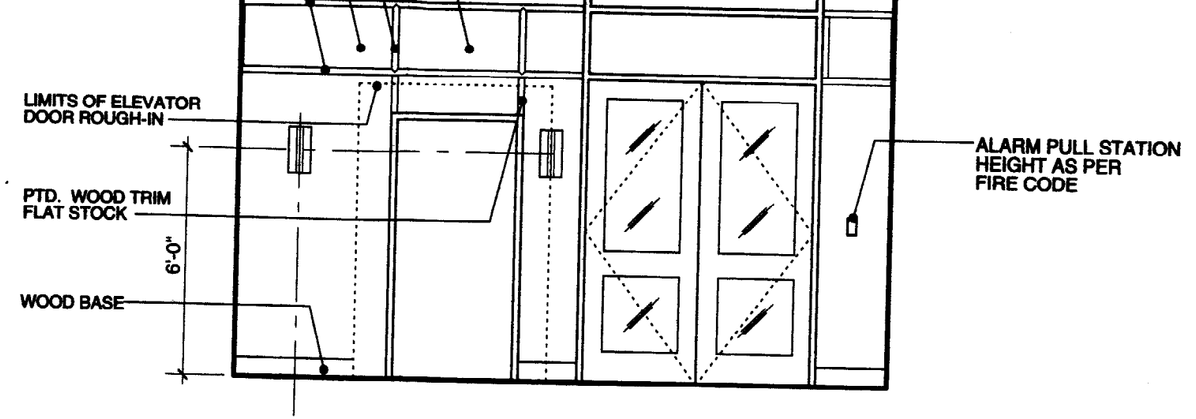
PROJECT
Breakwater School
856 BRIGHTON AVENUE
PORTLAND, MAINE
MULTI PURPOSE ADDIT
PHASE THREE

TITLE
FLOOR PLANS
DOOR SCHEDULE & DETAIL
ELEVATOR ADDED MARCH 15, 2004

STATUS: Issued for Construction
June 18, 2003

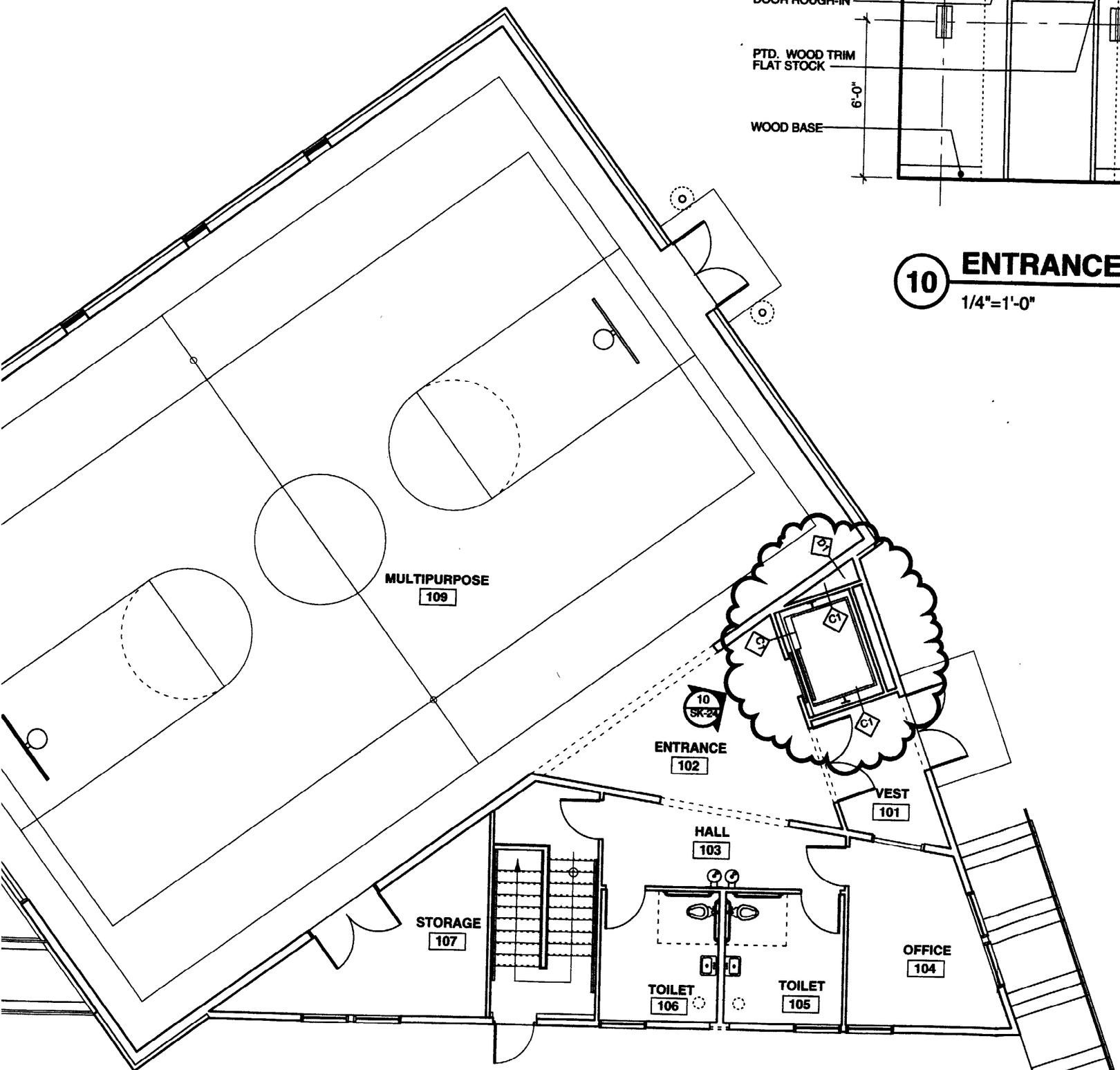
DATE: 06.06.03	△ REVISION /DATE:
SCALE: AS NOTED	
PROJECT NO. 00129.00	
DRAWN BY:	

DWG NO. SK-24



10 ENTRANCE 102

1/4"=1'-0"



Scott Simons Architec
15 Franklin Street Art
Portland, Maine 04101
phone 207 772 4656
fax 207 828 4656

PROJECT

Breakwater

856 BRIGHT
PORTLAND,

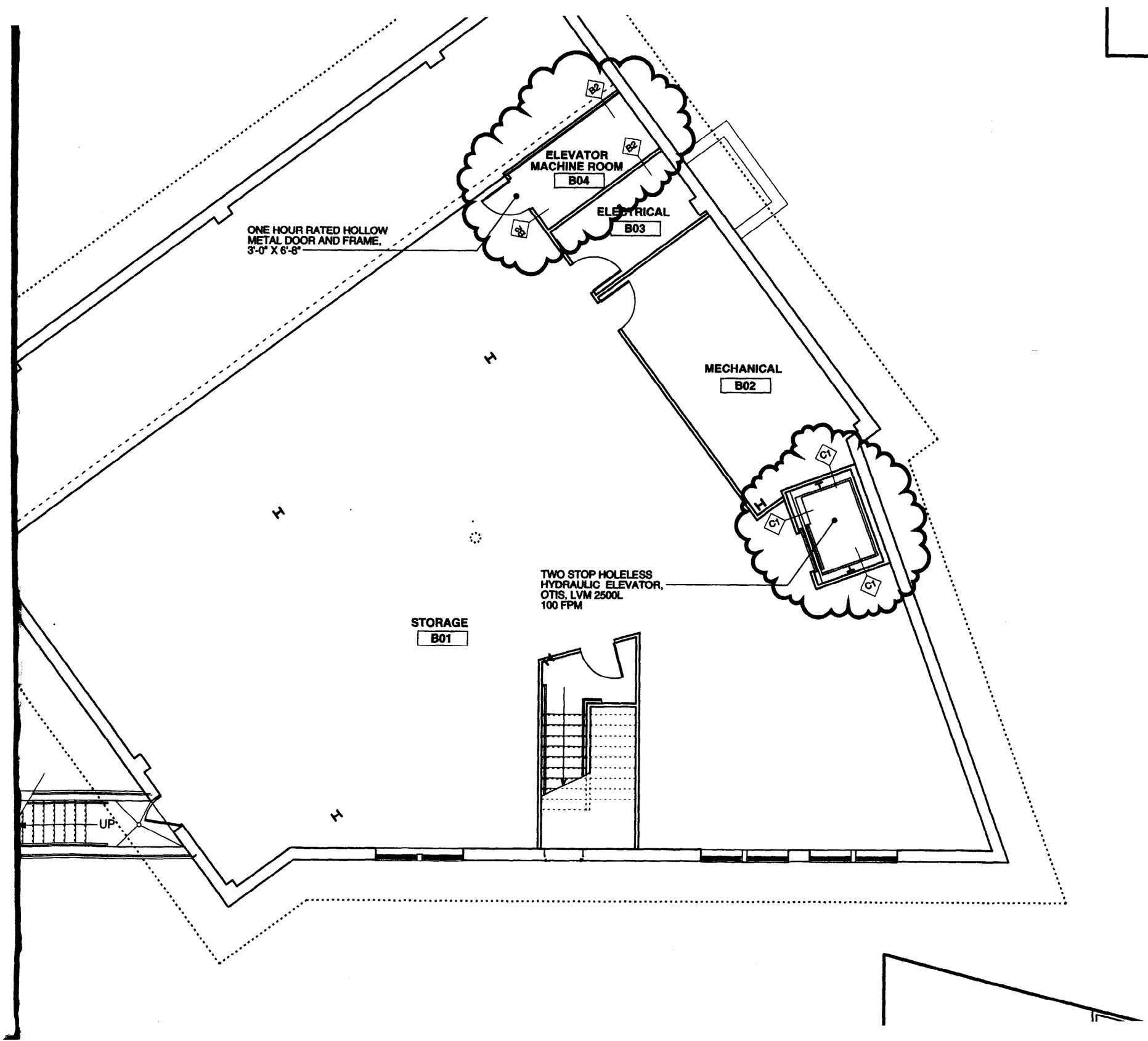
MULTI PURP
PHASE

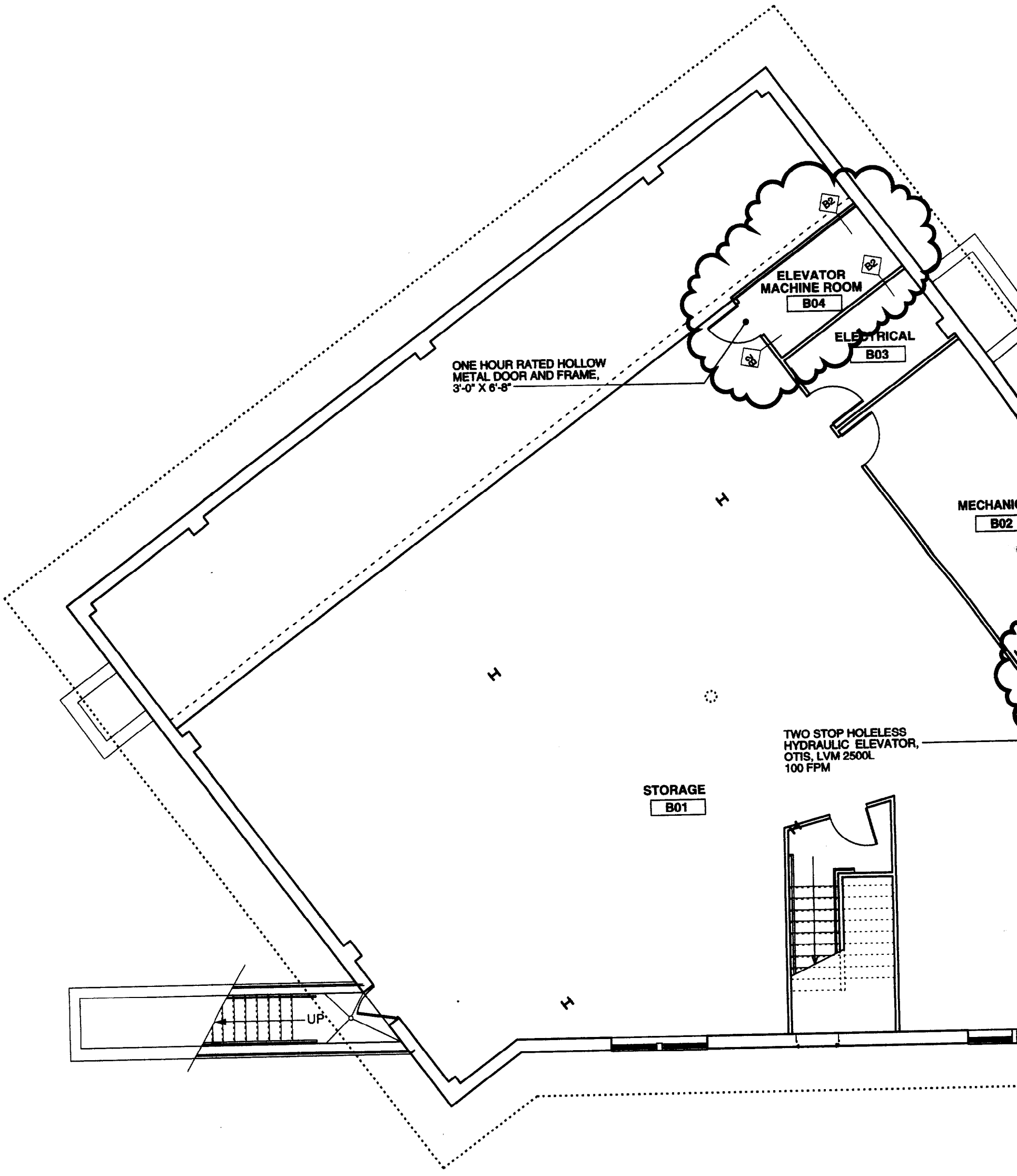
TITLE

FLOOR
DOOR SCHED
ELEVATO
MARCH

STATUS:
Issued for
June

"C-H" STUDS FROM FLOOR BELOW TO DECK ABOVE
WITH 1" LINER
(1 HOUR RATING - COMPLY WITH UL DES. NO.U469.).
3-1/8" TOTAL THICKNESS.

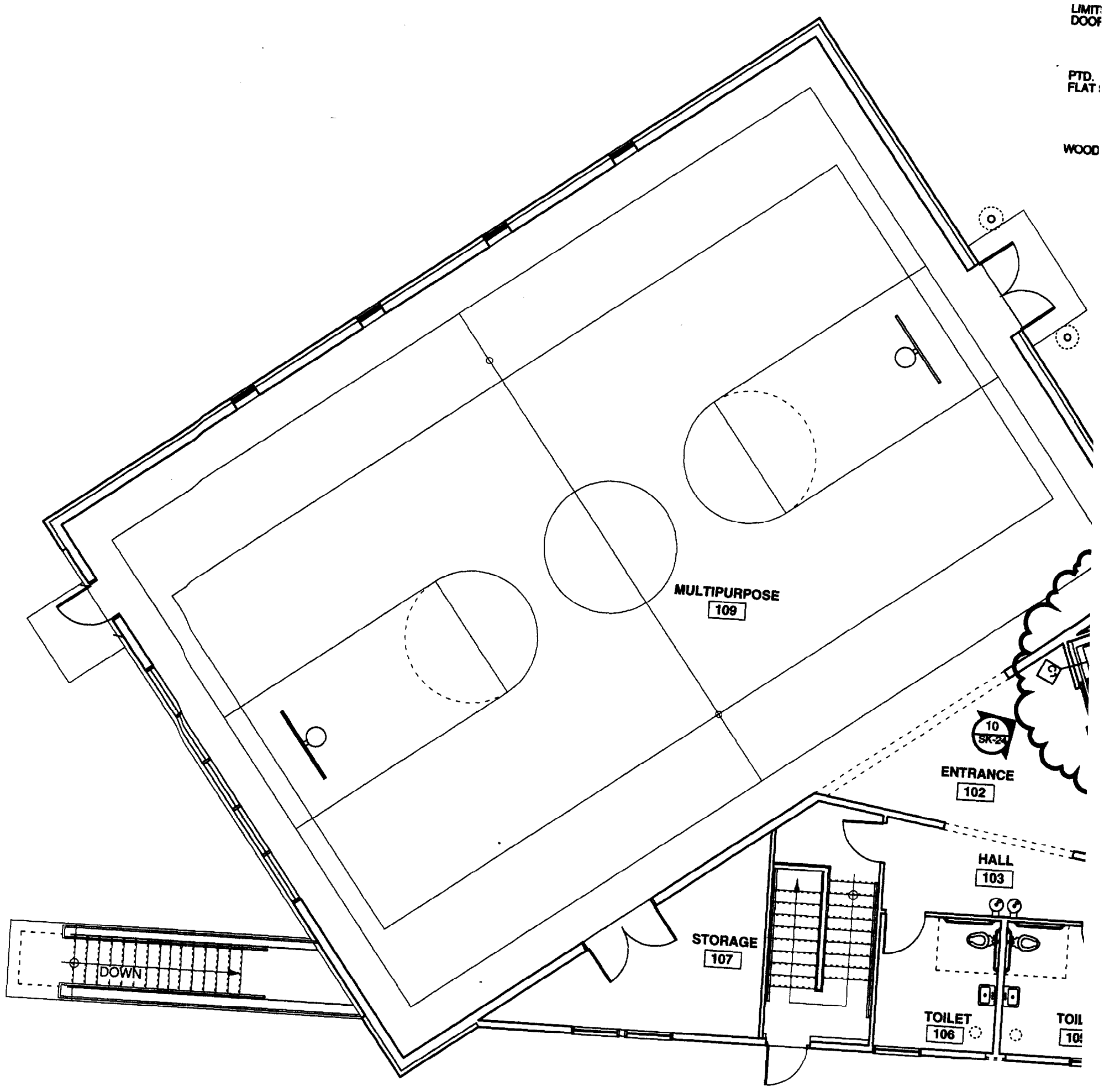




1 BASEMENT PLAN

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

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



2 FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"