

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK
CITY OF PORTLAND

Please Read
 Application And
 Notes, If Any,
 Attached

BUILDING INSPECTION

PERMIT

PERMIT ISSUED

Permit Number: 080088

MAR 25 2008

This is to certify that WESTBROOK SEMINARY JUNIOR COLLEGE FOR WOMEN

has permission to New 3 story above grade college of Pharmacy teaching research & Administrative Office Facility on Stevens Ave

AT 714 STEVENS AVE 145 A003001

provided that the person or persons who apply for and accept this permit shall comply with all of the provisions of the Statutes of the State and of the Ordinances of the City of Portland regulating the construction, maintenance and use of buildings and structures, and of the application on file in this department.

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

Notification of inspection must be given and when permission is procured before this building or part thereof is occupied or services are provided. 4 HOUR NOTIFICATION REQUIRED.

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

OTHER REQUIRED APPROVALS

Fire Dept. Greg Case

Health Dept. _____

Appeal Board _____

Other _____

Department Name

[Signature]
 Director - Building & Inspection Services
 3/19/08

PENALTY FOR REMOVING THIS CARD

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

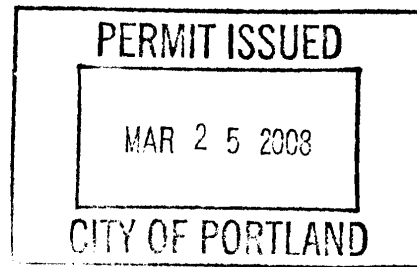
Permit No: 08-0088	Issue Date:	CBL: 145 A003001
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Location of Construction: 714 STEVENS AVE	Owner Name: WESTBROOK SEMINARY & JU	Owner Address: 716 STEVENS AVE	Phone:
Business Name:	Contractor Name: Allied/Cook Construction	Contractor Address: PO Box 1396 Portland	Phone: 2077722888
Lessee/Buyer's Name	Phone:	Permit Type: Institutional	Zone: R-5

Past Use: University of New England	Proposed Use: University of New England - New 3 story above grade college of Pharmacy teaching research & Administrative Office Facility at the UNE Campus	Permit Fee: \$64,715.00	Cost of Work: \$6,462,000.00	CEO District: 5
Proposed Project Description: New 3 story above grade college of Pharmacy teaching research & Administrative Office Facility at the UNE Campus		FIRE DEPT: <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Denied <i>See Conditions</i>	INSPECTION: Use Group: <i>A3/B</i> Type: <i>5B</i> <i>3/19/08</i>	
		Signature: <i>[Signature]</i> Signature: <i>[Signature]</i>		
PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.)				
Action: <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied				
Signature: _____ Date: _____				

Permit Taken By: Idobson	Date Applied For: 01/30/2008	Zoning Approval		
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- This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules.
- Building permits do not include plumbing, septic or electrical work.
- 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..



Special Zone or Reviews <input type="checkbox"/> Shoreland <i>NA</i> <input type="checkbox"/> Wetland <input type="checkbox"/> Flood Zone <input type="checkbox"/> Subdivision <input checked="" type="checkbox"/> Site Plan #2007-0158 Maj <input checked="" type="checkbox"/> Minor <input type="checkbox"/> MM <input type="checkbox"/> Date: <i>[Signature]</i> <i>3/25/08</i>	Zoning Appeal <input type="checkbox"/> Variance <input type="checkbox"/> Miscellaneous <input checked="" type="checkbox"/> Conditional Use to the <i>PLANNING BOARD</i> <input type="checkbox"/> Interpretation <input type="checkbox"/> Approved <input type="checkbox"/> Denied Date: _____	Historic Preservation <input checked="" type="checkbox"/> Not in District or Landmark <i>where Bldg is placed</i> <input type="checkbox"/> Does Not Require Review <input type="checkbox"/> Requires Review <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied Date: <i>[Signature]</i>
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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: 08-0088	Date Applied For: 01/30/2008	CBL: 145 A003001
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Location of Construction: 714 STEVENS AVE	Owner Name: WESTBROOK SEMINARY & JUN	Owner Address: 716 STEVENS AVE	Phone:
Business Name:	Contractor Name: Allied/Cook Construction	Contractor Address: PO Box 1396 Portland	Phone: (207) 772-2888
Lessee/Buyer's Name	Phone:	Permit Type: Commercial	

Proposed Use: University of New England - New 3 story above grade college of Pharmacy teaching research & Administrative Office Facility at the UNE Campus	Proposed Project Description: New 3 story above grade college of Pharmacy teaching research & Administrative Office Facility at the UNE Campus
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Dept: Zoning **Status:** Approved with Conditions **Reviewer:** Marge Schmuckal **Approval Date:** 03/25/2008

Note: Jeanie approved as Marge was at a 2 day training

Ok to Issue:

- 1) Separate permits shall be required for any new signage.
- 2) This permit is being approved on the basis of plans submitted. Any deviations shall require a separate approval before starting that work.

Dept: Building **Status:** Approved with Conditions **Reviewer:** Mike Nugent **Approval Date:** 03/19/2008

Note:

Ok to Issue:

- 1) I've signed off with the following condition:
Separate submissions must be approved and a separate permit is required for the Lab Exhaust system.

Dept: Fire **Status:** Approved with Conditions **Reviewer:** Capt Greg Cass **Approval Date:** 03/05/2008

Note:

Ok to Issue:

- 1) Fire alarm system requires a Masterbox connection per city ordinance.
- 2) Occupancies with an occupant load of 100 persons or more require panic hardware on all doors serving as a means of egress.
- 3) A single source supplier should be used for all through penetrations.
- 4) The fire alarm system shall comply with NFPA 72
- 5) Installation of a Fire Alarm system requires a Knox Box to be installed per city ordinance
- 6) All construction shall comply with NFPA 101
- 7) The sprinkler system shall be installed in accordance with NFPA 13.
- 8) Application requires State Fire Marshal approval.

Dept: Public Works **Status:** Pending **Reviewer:** **Approval Date:**

Note:

Ok to Issue:

Dept: Zoning **Status:** **Reviewer:** Marge Schmuckal **Approval Date:**

Note:

Ok to Issue:

Dept: Parks **Status:** Pending **Reviewer:** **Approval Date:**

Note:

Ok to Issue:

Location of Construction: 714 STEVENS AVE	Owner Name: WESTBROOK SEMINARY & JUN	Owner Address: 716 STEVENS AVE	Phone:
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Lessee/Buyer's Name	Phone:	Permit Type: Commercial	

Dept: Fire **Status:** Approved **Reviewer:** Capt Greg Cass **Approval Date:**
Note: **Ok to Issue:**

Dept: DRC **Status:** Approved with Conditions **Reviewer:** Philip DiPierro **Approval Date:** 03/25/2008
Note: **Ok to Issue:**

Dept: Planning **Status:** Pending **Reviewer:** Shukria Wiar **Approval Date:**
Note: **Ok to Issue:**

- 1) v. The tree-protection fencing shall include the area within the drip-line of the trees as shown on the landscaping plan
- 2) i. The applicant shall implement prior to the issuance of certificate of occupancy and at its own cost the suggested parking prohibitions contained in Tom Errico's report, dated January 18, 2008
- 3) ii. The applicant shall submit a roadway signage plan for both Stevens Avenue and the campus for review and approval by the City Parking and Traffic Division prior to the issuance of a certificate of occupancy
- 4) iii. The applicant shall make a contribution of \$29,000.00 to the City which shall be earmarked towards the improvements at the intersection at Morrill's Corner, set amount to be paid prior to issuance of the building permit.
- 5) i. UNE shall conduct a parking analysis/ monitoring study every six months from the issuance of a certificate of occupancy to ensure that sufficient parking spaces are available for the proposed use. The monitoring shall continue until a long-term parking strategy is presented and approved by the Planning Board. If prior to the approval by the Planning Board of a long term parking strategy, the City determines that there is a parking deficit, the applicant shall be required to resolve the parking deficit at its own cost to the City's satisfaction.
- 6) ii. UNE shall within two (2) years of February 26, 2008, present to the Planning Board for review and approval a campus stormwater management plan. The stormwater management plan shall address the treatment and discharge of stormwater runoff from the campus with the goal of minimizing impacts on the City's sewer system and natural drainage system.
- 7) i. That UNE shall within two (2) years of February 26, 2008 submit to the Planning Board a campus master planning process and prior to any further site development requiring major site plan review by the Planning Board. In addition, UNE shall submit to the Planning Board for review and approval within two (2) years of February 26, 2008 a long term parking strategy which shall address, among other items, the deficit parking that is depicted on page 8 of the Planning Board Report #12-08.
- 8) iv. Prior to issuance of building permit, the site plan shall be revised to show the replacement of the sidewalk and curb along Stevens Avenue that meet the City's standards, as reviewed and approved by the Planning Authority
- 9) The applicant shall submit a parking plan for the construction phase to be reviewed and approved by the Planning Authority prior to the issuance of a building permit. The construction parking plan shall address construction vehicle parking and may include some parking at Gulliver's Field provided that remediation, protection and restoration are incorporated into the plan. The first priority of the Planning Board is for the applicant to secure and encourage construction vehicle parking at the Armory site.
- 10) iii. The volume of foundation drainage discharged to the City's combined sewer system shall be continuously metered, and recorded and reported on a monthly, or more frequent, basis to the Engineering Division of Public Works. If the Engineering Division at its sole discretion determines that the volume of such discharge is significant, then the City shall charge UNE, and UNE shall pay the City, the normal sewer use fee based on the volume discharged. If the Engineering Division at its sole discretion determines that the volume of such discharge adversely impacts the City Combined sewer system, UNE shall be responsible for addressing and resolving to the City's satisfaction the problem presented. The requirement to meter, record, and report the volume of foundation drainage discharged shall be suspended by the City if records indicate that the volume of such discharge is insignificant

Dept: **Status:** **Reviewer:** **Approval Date:**
Note: **Ok to Issue:**

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Lessee/Buyer's Name	Phone:	Permit Type: Commercial	

Comments:

3/12/2008-ldobson: 3/12/2008 10:39:14 AM Matt and Lita,
Mike Nugent came in just after you were here this morning, he has the plans for review, he will contact you. As I mentioned, all the planning requirements will need to be satisfied prior to issuing the permit.
Thanks

Jeanie Bourke
Inspection Services Division Director

City of Portland
Planning & Development Dept./ Inspections Division
389 Congress St. Rm 315
Portland, ME 04101
jmb@portlandmaine.gov
(207)874-8715

>>> Mike Nugent 03/03 8:18 PM >>>
Thank you for the additional submissions.

1) In reviewing the geotechnical report, I found that Haley and Aldrich based their findings on the 2006 Code. As you know the City (and State) is regulated by the 2003 IBC. Can you provide the seismic site class and design category for the 2003 IBC. If you would like to submit a waiver request to use an alternative design pursuant to section 104.11 please do so.

2) I don't know that Section 1509.1 gives us the ability to reduce egress requirements, it may relax the "number of Stories" for the purposes of height and area. I'll contact the IBC folks tomorrow and discuss this with them.

More importantly I need to know your schedule as I am here through Wednesday, the 5th and then away until Sunday the 9th. I'll pick up the new plans at City Hall tomorrow and forge ahead in an effort to complete the review, get comments back to you and return it for Fire Review on Wednesday .

Thanks

Mike N.

>>> "Lita Semrau" <lita@portcityarch.com> 02/24/08 2:54 PM >>>
Good afternoon Mike . . .

I will try to answer the questions that I can quickly below and will provide print information in a day or two . . . please feel free to call me directly if you have any questions at 761-9000 - have a great week, Lita

PS. Evan is working on this project with me and if you are unable to find me and need something quickly, please feel free to ask him. Bruce is the mechanical engineer on this project.

-----Original Message-----

From: Mike Nugent [mailto:mjn@portlandmaine.gov]
Sent: Sunday, February 24, 2008 2:17 PM
To: jsb@alliedcook.com ; lita@portcityarch.com
Cc: Gregory Cass; Jeanie Bourke; Lannie Dobson
Subject: UNE College of Pharmacy Permit # 080088 CBL 145 E003

Location of Construction: 714 STEVENS AVE	Owner Name: WESTBROOK SEMINARY & JUN	Owner Address: 716 STEVENS AVE	Phone:
Business Name:	Contractor Name: Allied/Cook Construction	Contractor Address: PO Box 1396 Portland	Phone (207) 772-2888
Lessee/Buyer's Name	Phone:	Permit Type: Commercial	

I have commenced the review and have the following questions or require the following information:

1) Please provide a copy of the Geotechnical Report.
In the spec book

2) Please provide a copy of the project spec book
We will drop one off as soon as I can get it from the printers

3) Please provide a COMCheck report for the project
I am sorry, but I do not understand this terminology - could you explain more - thank you . . .

4) There is a large Assembly room (A-3) on the first floor that is not separated from the adjoining "B" use, Please provide a code justification for this omission, there are also no fire dampers shown on M1.2 for the penetrations to this area.
We caught this in our last review - do you have the latest set (came out last week) - it is also included on a new code review page which we will include a copy when we drop off the spec (and this drawing is included in the new set) . . . I will also check with Mechanical . . .

5) What type of cooking equipment will be in the kitchen.
Microwave and vending machines ONLY - UNE does not want to have to clean up after the students let alone deal with a hood . . .

6) Please provide a code justification for the omission of the fire and smoke dampers in the 2 hr rated shaft penetrations for hvac ducts.
Will forward to Mechanical . . .

7) The atrium is not enclosed and does not have a smoke control system., please provide a code justification.
Have include an enclosure in the latest plans . . . see above . . .

8) The CMU shaft assemblies do not show the required 2 hour rating and have no UL listings.
Will review and add to the final plans and let you know . . .

9) The area labelled as a "Mezzanine" does not seem to meet the definition of a "Mezzanine" as shown in section 502.1. It seems to be a 4th story. This is only problematic because you have chosen to have the project reviewed as type 5B construction. Please provide a code justification. If this is a fourth story we'll have to discuss the roof access, and the single egress construction.
After an extensive code review, we have determined that this is technically a "MECHANICAL ATTIC" and thus is technically part of the third floor (The building includes a mechanical attic (IBC 1509.1) at 3,592 sf (less than 1/3 floor area))

Please get back to me as soon as possible. For some reason attachments like .pdf files won't open on my Novell home base, so please provide

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hard copies at City Hall, I'll pick them up there.

Thanks,

Mike Nugent
Consulting Plans Examiner

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3/16/2008-ldobson: 3/16/2008 2:01:37 PM Thank you. Please provide a hard copy to City Hall

>>> Dan Burne <dan@beckerstructural.com> 03/13/08 11:06 AM >>>

Mike,

Please find a revised SI Statement for UNE COP attached. This has been revised to include masonry. Please let me know if you need anything else.

Dan

-----Original Message-----

From: Mike Nugent [mailto:mjn@portlandmaine.gov]

Sent: Wednesday, March 12, 2008 10:22 PM

To: Dan Burne

Subject: RE: UNE College of Pharmacy Permit # 080088 CBL 145 E003

I didn't see an exception in the code

>>> Dan Burne <dan@beckerstructural.com> 03/05/08 8:59 AM >>>

Mike,

The structural masonry is limited to the stair and elevator shafts, which are non-load bearing and not part of the lateral system. Because of that, I felt the masonry work was of a minor nature. If you feel masonry should be included, I'm happy to revise the statement and get it to you.

Dan

-----Original Message-----

From: Mike Nugent [mailto:mjn@portlandmaine.gov]

Sent: Tuesday, March 04, 2008 8:17 PM

To: Dan Burne

Subject: RE: UNE College of Pharmacy Permit # 080088 CBL 145 E003

Quick question : Why are there no masonry special inspections?

>>> Dan Burne <dan@beckerstructural.com> 03/04/08 10:32 AM >>>

Lita,

Regarding the geotechnical report referencing the 2006 IBC for the seismic site class: A waiver to use 2006 IBC was requested on 11/20/07 and granted by the city on 12/21/07.

Dan

-----Original Message-----

From: Blaisdell, Andy [mailto:ABlaisdell@haleyaldrich.com]

Sent: Tuesday, March 04, 2008 9:41 AM

To: lita@portcityarch.com; Chadbourne, Wayne

Cc: Alan Thibeault; Dan Burne

Subject: RE: UNE College of Pharmacy Permit # 080088 CBL 145 E003

Lita-

Dan Burne instructed me that all structural design would be performed in accordance with IBC 2006, so that is what I did. They (and we) have done this on several other Portland projects in the past year.

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The seismic site class is the same for IBC 2003 and 2006 (Site Class C).
The mapped spectral accelerations (Ss and S1) are higher for 2003. If
structural design must follow 2003, I can provide the 2003 numbers.
Dan, can you chime in?

Andy

Andrew R. Blaisdell, P.E., G.E. (CA)
Senior Engineer
HALEY & ALDRICH
75 Washington Ave., Ste. 203
Portland, ME 04101-2617
Tel: 207.482.4619
Fax: 207.482.4669

-----Original Message-----

From: Lita Semrau [mailto:lita@portcityarch.com]
Sent: Tuesday, March 04, 2008 9:04 AM
To: Blaisdell, Andy; Chadbourne, Wayne
Cc: Alan Thibeault
Subject: FW: UNE College of Pharmacy Permit # 080088 CBL 145 E003

Andy & Wayne - what is the best and easiest way to handle this? Why did
we not use IBC 2003 in the first place? thanks, las

-----Original Message-----

From: Mike Nugent [mailto:mjn@portlandmaine.gov]
Sent: Monday, March 03, 2008 8:19 PM
To: jsb@alliedcook.com; lita@portcityarch.com
Cc: evan@portcityarch.com; Gregory Cass; Jeanie Bourke; Lannie Dobson;
bhartman@vanzelm.com
Subject: RE: UNE College of Pharmacy Permit # 080088 CBL 145 E003

Thank you for the additional submissions.

1) In reviewing the geotechnical report, I found that Haley and Aldrich
based their findings on the 2006 Code. As you know the City (and State)
is regulated by the 2003 IBC. Can you provide the seismic site class and
design category for the 2003 IBC. If you would like to submit a waiver
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the review, get comments back to you and return it for Fire Review on Wednesday .

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Mike N.

>>> "Lita Semrau" <lita@portcityarch.com> 02/24/08 2:54 PM >>>

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PS. Evan is working on this project with me and if you are unable to find me and need something quickly, please feel free to ask him. Bruce is the mechanical engineer on this project.

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Sent: Sunday, February 24, 2008 2:17 PM

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Will forward to Mechanical . . .

7)The atrium is not enclosed and does not have a smoke control system., please provide a code justification.

Have include an enclosure in the latest plans . . . see above .

..

8)The CMU shaft assemblies do not show the required 2 hour rating and have no UL listings.

Will review and add to the final plans and let you know . . .

9)The area labelled as a "Mezzanine" does not seem to meet the definition of a "Mezzanine" as shown in section 502.1. It seems to be a 4th story. This is only problematic because you have chosen to have the project reviewed as type 5B construction. Please provide a code justification. If this is a fourth story we'll have to discuss the roof access, and the single egress construction.

After an extensive code review, we have determined that this is technically a "MECHANICAL ATTIC" and thus is technically part of the third floor (The building includes a mechanical attic (IBC 1509.1) at 3,592 sf (less than 1/3 floor area))

Please get back to me as soon as possible. For some reason attachments like .pdf files won't open on my Novell home base, so please provide hard copies at City Hall, I'll pick them up there.

Thanks,

Mike Nugent
Consulting Plans Examiner

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3/16/2008-ldobson: 3/16/2008 3:26:37 PM I have completed the review, and am prepared to approve a foundation only permit to meet your 3/17/08 mobilization goal, If Planning as all set with this. The following items still are outstanding:

- 1) Energy Code Compliance information
- 2) Updated fire / Smoke damper information as indicated in the previous email response dated 2/24/08 I found dampers for the duct penetrations in the two hour shafts on pages M1-3 and M1-4, although one is omitted on M1-4
- 3) The Mechanical penthouse Additional Height and egress issue .(if this turns out to "count" for the purposes of height., the building construction type could be upgraded, the CDX plywood found in the wall and roof sections would have to be replaced with suitable non-combustible materials and roof access would need to be upgraded.)
- 4) The mechanical, plumbing and electrical plans in the set dated 2/8/08 were not stamped
- 5) Have we received the atrium updates?
- 6) Please provide a project specific fire separation assembly penetration protection plan.
- 7) Still need to resolve the Lab exhaust system design challenges.
- 8) The number of plumbing fixtures as proposed seems to be less than that indicated in Table 4-1 of the State Plumbing Code (based on the 2000 IPC) Please provide a code justification.

Thanks!

Mike N.

6) Please provide a code justification for the omission of the fire and smoke dampers in the 2 hr rated shaft penetrations for hvac ducts.

Will forward to Mechanical . . .

7) The atrium is not enclosed and does not have a smoke control system., please provide a code justification.

Have include an enclosure in the latest plans . . . see above . . .

8) The CMU shaft assemblies do not show the required 2 hour rating and have no UL listings.

Will review and add to the final plans and let you know . . .

9) The area labelled as a "Mezzanine" does not seem to meet the definition of a "Mezzanine" as shown in section 502.1. It seems to be a 4th story. This is only problematic because you have chosen to have the project reviewed as type 5B construction. Please provide a code justification. If this is a fourth story we'll have to discuss the roof access, and the single egress construction.

After an extensive code review, we have determined that this is technically

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Please get back to me as soon as possible. For some reason attachments like .pdf files won't open on my Novell home base, so please provide hard copies at City Hall, I'll pick them up there.

Thanks,

Mike Nugent
Consulting Plans Examiner

2/24/2008-ldobson: 2/24/2008 2:16:32 PM

I have commenced the review and have the following questions or require the following information:

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- 3) Please provide a COMCheck report for the project
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- 5) What type of cooking equipment will be in the kitchen.
- 6) Please provide a code justification for the omission of the fire and smoke dampers in the 2 hr rated shaft penetrations for hvac ducts.
- 7) The atrium is not enclosed and does not have a smoke control system., please provide a code justification.
- 8) The CMU shaft assemblies do not show the required 2 hour rating and have no UL listings.
- 9) The area labelled as a "Mezzanine" does not seem to meet the definition of a "Mezzanine" as shown in section 502.1. It seems to be a 4th story. This is only problematic because you have chosen to have the project reviewed as type 5B construction. Please provide a code justification. If this is a fourth story we'll have to discuss the roof access, and the single egress construction.

Please get back to me as soon as possible. For some reason attachments like .pdf files won't open on my Novell home base, so please provide hard copies at City Hall, I'll pick them up there.

Thanks,

Mike Nugent
Consulting Plans Examiner

Location of Construction: 714 STEVENS AVE	Owner Name: WESTBROOK SEMINARY & JUN	Owner Address: 716 STEVENS AVE	Phone:
Business Name:	Contractor Name: Allied/Cook Construction	Contractor Address: PO Box 1396 Portland	Phone (207) 772-2888
Lessee/Buyer's Name	Phone:	Permit Type: Commercial	

2/24/2008-l Dobson: thank you

>>> "Lita Semrau" <lita@portcityarch.com> 02/24/08 2:54 PM >>>
Good afternoon Mike . . .

I will try to answer the questions that I can quickly below and will provide print information in a day or two . . . please feel free to call me directly if you have any questions at 761-9000 - have a great week, Lita

PS. Evan is working on this project with me and if you are unable to find me and need something quickly, please feel free to ask him. Bruce is the mechanical engineer on this project.

-----Original Message-----

From: Mike Nugent [mailto:mjn@portlandmaine.gov]
Sent: Sunday, February 24, 2008 2:17 PM
To: jsb@alliedcook.com; lita@portcityarch.com
Cc: Gregory Cass; Jeanie Bourke; Lannie Dobson
Subject: UNE College of Pharmacy Permit # 080088 CBL 145 E003

I have commenced the review and have the following questions or require the following information:

- 1) Please provide a copy of the Geotechnical Report.
 - In the spec book
- 2) Please provide a copy of the project spec book
 - We will drop one off as soon as I can get it from the printers
- 3) Please provide a COMCheck report for the project
 - I am sorry, but I do not understand this terminology - could you explain more - thank you . . .
- 4) There is a large Assembly room (A-3) on the first floor that is not separated from the adjoining "B" use, Please provide a code justification for this omission, there are also no fire dampers shown on M1.2 for the penetrations to this area.
 - We caught this in our last review - do you have the latest set (came out last week) - it is also included on a new code review page which we will include a copy when we drop off the spec (and this drawing is included in the new set) . . . I will also check with Mechanical . . .
- 5) What type of cooking equipment will be in the kitchen.
 - Microwave and vending machines ONLY - UNE does not want to have to clean up after the students let alone deal with a hood . . .
- 6) Please provide a code justification for the omission of the fire and smoke dampers in the 2 hr rated shaft penetrations for hvac ducts.
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- 7) The atrium is not enclosed and does not have a smoke control system., please provide a code justification.

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Business Name:	Contractor Name: Allied/Cook Construction	Contractor Address: PO Box 1396 Portland	Phone (207) 772-2888
Lessee/Buyer's Name	Phone:	Permit Type: Commercial	

Have include an enclosure in the latest plans . . . see above . . .

8)The CMU shaft assemblies do not show the required 2 hour rating and have no UL listings.

Will review and add to the final plans and let you know . . .

9)The area labelled as a "Mezzanine" does not seem to meet the definition of a "Mezzanine" as shown in section 502.1. It seems to be a 4th story. This is only problematic because you have chosen to have the project reviewed as type 5B construction. Please provide a code justification. If this is a fourth story we'll have to discuss the roof access, and the single egress construction.

After an extensive code review, we have determined that this is technically a "MECHANICAL ATTIC" and thus is technically part of the third floor (The building includes a mechanical attic (IBC 1509.1) at 3,592 sf (less than 1/3 floor area))

Please get back to me as soon as possible. For some reason attachements like .pdf files won't open on my Novell home base, so please provide hard copies at City Hall, I'll pick them up there.

Thanks,

Mike Nugent
Consulting Plans Examiner

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Lessee/Buyer's Name	Phone:	Permit Type: Commercial	

3/3/2008-ldobson: Thank you for the additional submissions. 3/3/2008 8:18:45 PM

1) In reviewing the geotechnical report, I found that Haley and Aldrich based their findings on the 2006 Code. As you know the City (and State) is regulated by the 2003 IBC. Can you provide the seismic site class and design category for the 2003 IBC. If you would like to submit a waiver request to use an alternative design pursuant to section 104.11 please do so.

2) I don't know that Section 1509.1 gives us the ability to reduce egress requirements, it may relax the "number of Stories" for the purposes of height and area. I'll contact the IBC folks tomorrow and discuss this with them.

More importantly I need to know your schedule as I am here through Wednesday, the 5th and then away until Sunday the 9th. I'll pick up the new plans at City Hall tomorrow and forge ahead in an effort to complete the review, get comments back to you and return it for Fire Review on Wednesday.

Thanks

Mike N.

>>> "Lita Semrau" <lita@portcityarch.com> 02/24/08 2:54 PM >>>

Good afternoon Mike . . .

I will try to answer the questions that I can quickly below and will provide print information in a day or two . . . please feel free to call me directly if you have any questions at 761-9000 - have a great week, Lita

PS. Evan is working on this project with me and if you are unable to find me and need something quickly, please feel free to ask him. Bruce is the mechanical engineer on this project.

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To: jsb@alliedcook.com; lita@portcityarch.com

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Please get back to me as soon as possible. For some reason attachments like .pdf files won't open on my Novell home base, so please provide hard copies at City Hall, I'll pick them up there.

Thanks,

Mike Nugent
Consulting Plans Examiner

1/30/2008-mes: The Planning Board has not approved the site plan or the conditional use appeal yet. This permit is being passed on for further review by Fire Prevention and Building Code Reviews. WAIT FOR PLANNING APPROVALS BEFORE ISSUING. RETURN TO MARGE FOR FINAL ZONING SIGN OFFS. CHANGES ARE STILL BEING MADE TO THE HEIGHT AND SETBACKS.

BUILDING PERMIT INSPECTION PROCEDURES

Please call 874-8703 or 874-8693 (ONLY)

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.

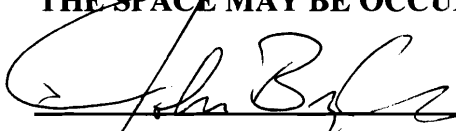
A Pre-construction Meeting will take place upon receipt of your building permit.

- Footing/Building Location Inspection: Prior to pouring concrete or setting precast piers**
- Re-Bar Schedule Inspection: Prior to pouring concrete**
- Foundation Inspection: Prior to placing ANY backfill for below grade occupiable space**
- 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.
- The final report of Special Inspections shall be submitted prior to the issuance of the Certificate of Occupancy**

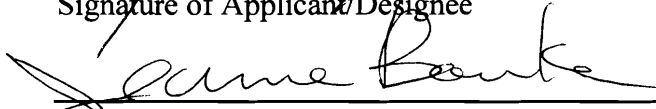
Certificate of Occupancy is not required for certain projects. Your inspector can advise you if your project requires a Certificate of Occupancy. All projects DO require a final inspection.

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

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



Signature of Applicant/Designee



Signature of Inspections Official

3/26/08

Date

3/26/08

Date

From: Philip DiPierro
To: Code Enforcement & Inspections
Date: 3/25/2008 10:59:50 AM
Subject: UNE Building Permit

Hi all, all the conditions have been met prior to the issuance of the building permit for UNE. Planning is ok for the building permit to be issued.

Thanks,

phil

From: Mike Nugent
To: lita@portcityarch.com, Matt@AlliedCook.com, jsb@AlliedCook.com
Date: 3/19/2008 10:21:56 PM
Subject: RE: Meeting

I've signed off with the following condition:

Separate submissions must be approved and a separate permit is required for the Lab Exhaust system.

I'll drop this off at City Hall tomorrow.
Thank you all!

>>> "Lita Semrau" <lita@portcityarch.com> 03/18/08 8:30 AM >>>
Tommorrow at noon sounds great - where would you like to meet - City Hall works or you are welcome to come to one of our offices . . . thank you for the info about the mechanical attic - see you soon, Lita

-----Original Message-----

From: Mike Nugent [mailto:mjn@portlandmaine.gov]
Sent: Monday, March 17, 2008 9:06 PM
To: jsb@AlliedCook.com; Matt@AlliedCook.com; lita@portcityarch.com
Subject: Re: Meeting

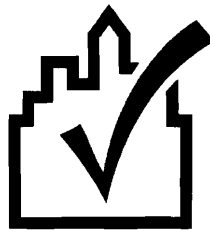
how about noon on wednesday, has planning signed off on this yet?

Also I spoke with the IBC this evening and you are correct with your design of the mechanical penthouse, it does not count for table 503 if it complies with 1509,2 etc.

>>> "Lita Semrau" <lita@portcityarch.com> 03/17/08 9:24 AM >>>
Mike - in one of your emails you stated you would like to meet this week - I am available any time from now until late Wednesday - please let me know what is good for you - Lita

Lita Semrau
Vice President
Port City Architecture
65 Newbury Street
Portland, ME 04101
207.761.9000
lita@portcityarch.com
<<http://www.portcityarch.com>> www.portcityarch.com

CC: LDobson@portlandmaine.gov, JMB@portlandmaine.gov



Generated by COMcheck-Web Software
Envelope Compliance Certificate

90.1 (2004) Standard

Report Date: 03/18/08

Section 1: Project Information

Project Title: University of New England College of Pharmacy

Construction Site: 716 Stevens Avenue Portland, Maine 04102	Owner/Agent: Alan Thibeault University of New England 11 Hills Beach Road Biddeford, Maine 04005-9599 207-602-2253 athibeault@une.edu	Designer/Contractor: Architect - Lita Semrau Port City Architecture 65 Newbury Street Portland, Maine 04101 207-761-9000 lita@portcityarch.com
--	--	---

Section 2: General Information

Building Location (for weather data):	Portland, Maine
Heating Degree Days (base 65 degrees F):	7378
Cooling Degree Days (base 50 degrees F):	1943
Building Type for Envelope Requirements:	Non-Residential
Project Type:	New Construction
Vertical Glazing / Wall Area Pct.:	13%

Building Type	Floor Area
Unknown Building Type	46000

Section 3: Requirements Checklist

Envelope PASSES: Design 20% better than code.

Climate-Specific Requirements:

Component Name/Description	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor
Roof 1: Insulation Entirely Above Deck	15183	---	42.0	0.023	0.063
Brick: Other, HC 0.0	18006	---	---	0.089	0.089
Fiberglass: Other, Clear, Operable, SHGC 0.33	2475	---	---	0.320	0.670
Aluminum: Metal Frame, Single Pane: Metal Frame, Single Pane, Clear, Fixed, SHGC 0.62	813	---	---	0.350	0.570
Door 1: Insulated Metal, Swinging	63	---	---	0.240	0.700
Glass (over 50% glazing): Glass, Clear, SHGC 0.62	126	---	---	0.350	0.570
Solid Concrete, 14in. Thickness: Solid Concrete, 12in. Thickness, Normal Density, Furring: None, Wall Ht 15.0, Depth B.G. 12.5	6705	---	1.4	0.335	0.579

(a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements.

Insulation:

- 1. Open-blown or poured loose-fill insulation has not been used in attic roof spaces with ceiling slope greater than 3 in 12.
- 2. Wherever vents occur, they are baffled to deflect incoming air above the insulation.
- 3. Recessed lights, equipment and ducts are not affecting insulation thickness.
- 4. No roof insulation is installed on a suspended ceiling with removable ceiling panels.
- 5. All exterior insulation is covered with protective material.
- 6. Cargo and loading dock doors are equipped with weather seals.

Fenestration and Doors:

- 7. Windows and skylights are labeled and certified by the manufacturer for U-factor and SHGC.
- 8. Fixed windows and skylights unlabeled by the manufacturer have been site labeled using the default U-factor and SHGC.
- 9. Other unlabeled vertical fenestration, operable and fixed, that are unlabeled by the manufacturer have been site labeled using the default U-factor and SHGC. No credit has been given for metal frames with thermal breaks, low-emissivity coatings, gas fillings, or insulating spacers.

Air Leakage and Component Certification:

- 10. All joints and penetrations are caulked, gasketed, weather-stripped, or otherwise sealed.
- 11. Windows, doors, and skylights certified as meeting leakage requirements.
- 12. Component R-values & U-factors labeled as certified.
- 13. Building entrance doors have a vestibule and equipped with closing devices.

Exceptions:

Buildings less than four stories above grade. Building entrances with revolving doors.

Doors that open directly from a space less than 3000 sq. ft. in area.

- 14. Insulation installed according to manufacturer's instructions, in substantial contact with the surface being insulated, and in a manner that achieves the rated R-value without compressing the insulation.

Section 4: Compliance Statement

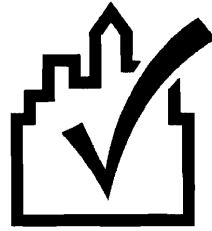
Compliance Statement: The proposed envelope design represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed envelope system has been designed to meet the 90.1 (2004) Standard requirements in COMcheck-Web and to comply with the mandatory requirements in the Requirements Checklist.

LITA SEMRAU - NCARB
Name - Title

Signature

Date

3/19/08



Generated by COMcheck-Web Software
**Lighting and Power Compliance
Certificate**

90.1 (2004) Standard

Report Date: 03/18/08

Section 1: Project Information

Project Title: University of New England College of Pharmacy

Construction Site:

716 Stevens Avenue
Portland, Maine 04102

Owner/Agent:

Alan Thibeault
University of New England
11 Hills Beach Road
Biddeford, Maine 04005-9599
207-602-2253
athibeault@une.edu

Designer/Contractor:

Architect - Lita Semrau
Port City Architecture
65 Newbury Street
Portland, Maine 04101
207-761-9000
lita@portcityarch.com

Section 2: General Information

Building Use Description by:

Project Type: **New Construction**

Building Type

Unknown Building Type

Floor Area

46000

Section 3: Requirements Checklist

Interior Lighting:

1. Total actual watts must be less than or equal to total allowed watts.

Allowed Watts	Actual Watts	Complies
55200	45822	YES

2. Exit signs 5 Watts or less per side.

Exterior Lighting:

3. Comply with Sections 9.4.4 and 9.4.5 of 90.1-2004 and attach documentation.

Controls, Switching, and Wiring:

4. Independent manual or occupancy sensing controls for each space (remote switch with indicator allowed for safety or security).
 5. Occupant sensing control in class rooms, conference/meeting rooms, and employee lunch and break rooms.

Exceptions:

Spaces with multi-scene control; shop classrooms, laboratory classrooms, and preschool through 12th grade classrooms.

6. Automatic shutoff control for lighting in >5000 sq.ft buildings by time-of-day device, occupant sensor, or other automatic control.

Exceptions:

24 hour operation lighting; patient care areas; where auto shutoff would endanger safety or security.

7. Master switch at entry to hotel/motel guest room.
 8. Separate control device for display/accent lighting, case lighting, task lighting, nonvisual lighting, lighting for sale, and demonstration lighting.
 9. Photocell/astronomical time switch on exterior lights.

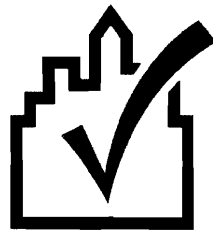
Exceptions:

Covered vehicle entrance/exit areas requiring lighting for safety, security and eye adaptation.

10. Tandem wired one-lamp and three-lamp ballasted luminaires (No single-lamp ballasts).

Exceptions:

Electronic high-frequency ballasts;



Generated by COMcheck-Web Software
Lighting Application Worksheet

90.1 (2004) Standard

Report Date:

Section 1: Allowed Lighting Power Calculation

A	B Floor Area	C Allowed Watts / ft2	D Allowed Watts
Unknown Building Type	46000	1.2	55200
Total Allowed Watts =			55200

Section 2: Actual Lighting Power Calculation

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
Compact Fluorescent 1: D1: Quad 2-Pin 13W / Electronic	2	37	29	1073
Compact Fluorescent 2: D2: Triple 4-Pin 32W / Electronic	1	10	36	360
Compact Fluorescent 3: D3: Triple 4-Pin 32W / Electronic	1	1	36	36
Compact Fluorescent 4: D4: Triple 4-Pin 32W / Electronic	1	5	36	180
Compact Fluorescent 5: D5: Triple 4-Pin 18W / Electronic	1	2	22	44
Compact Fluorescent 6: D6: Quad 2-Pin 13W / Electronic	2	6	29	174
Compact Fluorescent 7: D7: Quad 2-Pin 13W / Electronic	2	6	29	174
Linear Fluorescent 1: F1: 48 in. T8 32W (Super T8) / Electronic	2	60	60	3600
Linear Fluorescent 2: F2: 48 in. T8 32W (Super T8) / Electronic	4	20	120	2400
Linear Fluorescent 3: F4: 48 in. T8 32W (Super T8) / Electronic	2	20	55	1100
Linear Fluorescent 4: F5: 48 in. T8 32W (Super T8) / Electronic	2	8	55	440
Compact Fluorescent 8: F6: Quad 2-Pin 13W / Electronic	2	21	32	672
Linear Fluorescent 5: F7: 48 in. T8 32W (Super T8) / Electronic	2	91	64	5824
Linear Fluorescent 6: F9: 48 in. T8 32W (Super T8) / Electronic	2	155	59	9145
Linear Fluorescent 7: F10: 48 in. T8 32W (Super T8) / Electronic	3	7	82	574
Linear Fluorescent 8: F11: 46in. T5 54W / Electronic	1	2	58	116
Compact Fluorescent 9: F12: Twin Tube 13W / Electronic	2	2	29	58
Linear Fluorescent 9: F14: 48 in. T8 32W (Super T8) / Electronic	2	17	57	969
Linear Fluorescent 0: F15: 48 in. T8 32W (Super T8) / Electronic	2	3	57	171
Linear Fluorescent 1: F16: 48 in. T8 32W (Super T8) / Electronic	2	8	56	448
Linear Fluorescent 2: F17: 24in. T8 17W / Electronic	3	4	55	220
Linear Fluorescent 6: F18: 24in. T8 17W / Electronic	3	2	55	110
Linear Fluorescent 4: F19: 46in. T5 54W / Electronic	1	72	58	4176
Linear Fluorescent 5: F20: 48 in. T8 32W (Super T8) / Electronic	3	23	95	2185
Linear Fluorescent 3: F23: 24in. T8 17W / Electronic	3	3	55	165
Linear Fluorescent 7: F25: 48 in. T8 32W (Super T8) / Electronic	2	76	62	4712
Linear Fluorescent 8: F26: 48 in. T8 32W (Super T8) / Electronic	1	26	39	1014
Compact Fluorescent 0: F28: Quad 2-Pin 26W / Electronic	4	13	112	1456
Linear Fluorescent 9: F29: 48 in. T8 32W (Super T8) / Electronic	4	9	110	990
HID 1: H1: Metal Halide 50W / Electronic	1	7	72	504
HID 2: H2: Metal Halide 70W / Electronic	1	14	94	1316
HID 3: H3: Metal Halide 70W / Electronic	1	4	94	376
HID 4: H4: Metal Halide 150W / Electronic	1	4	185	740
Incandescent 2: V1: 150W	1	2	150	300
Total Actual Watts =			45822	

Section 3: Compliance Calculation

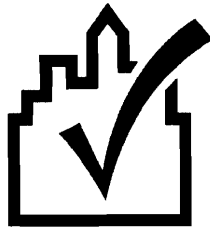
If the Total Allowed Watts minus the Total Actual Watts is greater than or equal to zero, the building complies.

Total Allowed Watts = 55200

Total Actual Watts = 45822

Project Compliance = 9378

Lighting PASSES: Design 17% better than code.



Generated by COMcheck-Web Software

Mechanical Compliance Certificate

90.1 (2004) Standard

Report Date: 03/18/08

Section 1: Project Information

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Construction Site:
716 Stevens Avenue
Portland, Maine 04102

Owner/Agent:
Alan Thibeault
University of New England
11 Hills Beach Road
Biddeford, Maine 04005-9599
207-602-2253
athibeault@une.edu

Designer/Contractor:
Architect - Lita Semrau
Port City Architecture
65 Newbury Street
Portland, Maine 04101
207-761-9000
lita@portcityarch.com

Section 2: General Information

Building Location (for weather data): **Portland, Maine**
Heating Degree Days (base 65 degrees F): **7378**
Cooling Degree Days (base 50 degrees F): **1943**
Project Type: **New Construction**

Section 3: Mechanical Systems List

Quantity System Type & Description

- | | |
|---|---|
| 1 | HVAC System 1: Heating: Hydronic or Steam Coil, Hot Water, Heating Capacity Unknown / Cooling: Hydronic Coil, Capacity >=760 kBtu/h, Water-Cooled Condenser / Multiple-Zone |
| 1 | HVAC Plant 1: Heating: Hot Water Boiler, Capacity >=600 kBtu/h, Gas / Cooling: Water Chiller, Capacity >=300 tons, Condenser Water-Cooled |
| 1 | Water Heater 1: Service Water Heater Instantaneous Water Heater, Capacity: 60 gallons, Input Rating: 75000 Btu/h w/ Circulation Pump |

Section 4: Requirements Checklist

Requirements Specific To: HVAC System 1 :

- 1. Minimum one temperature control device per zone
- 2. Leak testing >3 per in. static pressure - report submitted showing CL <6.0
- 3. Water economizer is included and calculations required
- 4. Systems serving more than one zone must be VAV systems
 - Exception: Where pressure relationships must be maintained
 - Exception: 75% of reheating/recooling energy achieved through site recovered or site solar
 - Exception: Zones with humidity requirements for special processes
 - Exception: Zone cfm <300 and flow rate <10% of total design flow rate
 - Exception: Outside air needed to meet IMC Chapter 4
- 5. VAV fan equipped with electrical adjustable speed drives
- 6. Hot gas bypass limited to 25% of total cooling capacity

Requirements Specific To: HVAC Plant 1 :

- 1. Equipment minimum efficiency: Boiler Thermal Efficiency >= 75% Et
- 2. Meets the condenser heat recovery requirement for service water heating

- 3. Hot gas bypass prohibited unless system has multiple steps of unloading or continuous capacity modulation
- 4. Common chilled and hot water piping prohibited

Requirements Specific To: Water Heater 1 :

- 1. Hot water system sized per manufacturer's sizing guide
- 2. Unknown hot water system type. Efficiency requirements can not be determined.
- 3. All piping in circulating system insulated
- 4. Automatic time control of heat tapes and recirculating systems present
- 5. Controls will shut off operation of circulating pump between water heater/boiler and storage tanks within 5 minutes after end of heating cycle

Generic Requirements: Must be met by all systems to which the requirement is applicable:

- 1. Load calculations per 2001 ASHRAE Fundamentals
- 2. Minimum one temperature control device per system
- 3. Thermostatic controls has 5 degrees F deadband
 - Exception: Thermostats requiring manual changeover between heating and cooling
- 4. Automatic Controls: Setback to 55 degrees F (heat) and 85 degrees F (cool); 7-day clock, 2-hour occupant override, 10-hour backup
 - Exception: Continuously operating zones
- 5. Hot water pipe insulation: 1 in. for pipes <=1.5 in. and 2 in. for pipes >1.5 in. Chilled water/refrigerant/brine pipe insulation: 1 in. for pipes <=1.5 in. and 1.5 in. for pipes >1.5 in. Steam pipe insulation: 1.5 in. for pipes <=1.5 in. and 3 in. for pipes >1.5 in.
 - Exception: Piping within HVAC equipment
 - Exception: Fluid temperatures between 55 and 105 degrees F
 - Exception: Fluid not heated or cooled
 - Exception: Runouts <4 ft in length
- 6. Piping, insulated to 1/2 in. if nominal diameter of pipe is <1.5 in.; Larger pipe insulated to 1 in. thickness
- 7. Lavatory faucet outlet temperatures in public restrooms limited to 110 degrees F (43 degrees C)
- 8. Load calculations per acceptable engineering standards and handbooks
- 9. Hot water distribution systems >=300 kBtu/h must have one of the following: a) controls that reset supply water temperature by 25% of supply/return delta T b) mechanical or electrical adjustable-speed pump drive(s) c) two-way valves at all heating coils d) multiple-stage pumps e) other system controls that reduce pump flow by at least 50% based on load - calculations required
- 10. Chilled water distribution systems >=300 kBtu/h must have one of the following: a) controls that reset supply water temperature by 25% of supply/return delta T b) mechanical or electrical adjustable-speed pump drive(s) c) two-way valves at all heating coils d) multiple-stage pumps e) other system controls that reduce pump flow by at least 50% based on load - calculations required
- 11. Pumping system balancing required. Means for measurement or testing pressure across each pump required
- 12. Where separate thermostats are used for heating and cooling, acceptable measures are used to prevent simultaneous heating and cooling
- 13. Motorized, automatic shutoff dampers required on exhaust and outdoor air supply openings
 - Exception: Gravity dampers acceptable in buildings <3 stories
 - Exception: Gravity dampers acceptable in systems with outside or exhaust air flow rates less than 300 cfm where dampers are interlocked with fan
- 14. Stair and elevator shaft vents are equipped with motorized dampers
- 15. Acceptable measures used to prevent simultaneous humidification and dehumidification
 - Exception: Desiccant systems and systems for uses requiring specific humidity levels (approval required)
- 16. Automatic controls for freeze protection systems present
- 17. Automatic ventilation controls (e.g., CO2 controls) or exhaust air heat recovery present for high design occupancy areas (>100 person/1000 ft²) with >3,000 cfm outside air capacities
- 18. Duct, plenum, and piping insulation surfaces suitably protected from weather, moisture, or likely damage
- 19. Duct Sealing: Pressure sensitive tape is not used as the primary sealant Longitudinal and transverse seams for ducts in unconditioned spaces Longitudinal and transverse seams and duct wall penetrations for ducts outside the building Transverse seams on buried ducts
- 20. R-8 for supply air ducts located outside the building, R-6 for supply air ducts in ventilated attics and in unvented attic above insulated ceiling, R-1.9 for supply air ducts in unvented attic with roof insulation, R-3.5 for supply air ducts in unconditioned and underground spaces R-3.5 for return air ducts located outside the building, in ventilated attics and in unvented attic above insulated ceiling
- 21. Three-pipe systems not used
- 22. Humidistat controls prevent reheating, recooling, and mixing of mechanically heated air with mechanically cooled air

- 23. Chilled water pumping systems with multiple chillers must automatically reduce chilled water flow rates proportionately when chillers are not operating
- 24. Hotwater pumping systems with multiple boilers automatically reduce hot water flow rates proportionately when boilers are not operating
- 25. Exhaust air heat recovery included for systems 5,000 cfm or greater with more than 70% outside air fraction or specifically exempted
- 26. Kitchen hoods >5,000 cfm provided with 50% makeup air that is uncooled and heated to no more than 60 degrees F unless specifically exempted
- 27. Buildings with fume hood systems must have variable air volume hood design, exhaust heat recovery, or separate makeup air supply meeting the following: a) 75% make up air quantity, and /or b) within 2 degrees F of room temperature and/or c) no humidification d) no simultaneous heating and cooling

Section 5: Compliance Statement

Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 90.1 (2004) Standard requirements in *COMcheck-Web* and to comply with the mandatory requirements in the Requirements Checklist.

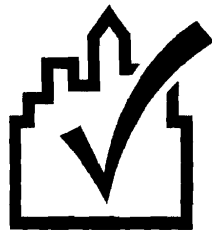
LITA Semrau - NCARB
Name - Title


Signature

3/19/08
Date

Section 6: Post Construction Compliance Statement

- HVAC record drawings of the actual installation and performance data for each equipment provided to the owner within 90 days after system acceptance.
- HVAC O&M documents for all mechanical equipment and system provided to the owner within 90 days after system acceptance.
- Written HVAC balancing report provided to the owner.



Generated by COMcheck-Web Software
**Mechanical Requirements
Description**

90.1 (2004) Standard

Report Date:

The following list provides more detailed descriptions of the requirements in Section 4 of the Mechanical Compliance Certificate.

Requirements Specific To: HVAC System 1 :

1. Each zone of a multiple-zone system must have its own temperature control device.
2. The specified distribution system is designed to operate at static pressure over 3 in. water column. The system must be leak tested in accordance with SMACNA standards. The contractor or engineer must submit a report to the enforcing jurisdiction documenting that a minimum of 25% of all duct surfaces have been tested and that tested ducts have a SMACNA rated air leakage class of <6.0.
3. A water economizer is required with the specified system. Calculations must be submitted demonstrating that the water economizer is capable of meeting the entire cooling load at an outside air temperature of 50 degrees F dry bulb and 45 degrees F wet bulb.
4. Systems serving multiple thermostatic control zones must be variable-flow systems. Zone terminal controls must reduce the flow of primary supply air before reheating, recooling, or mixing air streams.
 - Exception: VAV controls are not required for zones with special pressurization or cross-contamination requirements. These zones must be called out in the construction documents for easy identification during field inspection.
 - Exception: VAV controls are not required for zones where at least 75% of the reheating and recooling energy is made available through the use of site-recovered or site solar energy. These zones must be called out in the construction documents for easy identification during field inspection.
 - Exception: VAV controls are not required for zones with special humidity control requirements for specialized processes. These zones must be called out in the construction documents for easy identification during field inspection.
 - Exception: VAV controls are not required for zones that require less than 300 cfm of supply air provided the total airflow to these zones does not exceed 10% of the total design flow rate for the system.
 - Exception: VAV controls are not required where constant volume supply air is necessary to meet the minimum outside air requirements of Chapter 4 of the International Mechanical Code. These zones must be called out in the construction documents for easy identification during field inspection.
5. Fans over 15 hp on a variable-flow system must have electrical variable-speed drives.
6. For cooling systems > 240 kBtu/h, maximum hot gas bypass capacity must be no more than 25% of total cooling capacity.

Requirements Specific To: HVAC Plant 1 :

1. The specified heating and/or cooling equipment is covered by the ASHRAE 90.1-2004 Standard and must meet the following minimum efficiency: Boiler Thermal Efficiency $\geq 75\%$ Et
2. Condenser heat recovery systems must be installed for heating or preheating of service hot water provided if: a) The facility operates 24 hours a day. b) The total installed heat rejection capacity of the water-cooled systems exceeds 6,000 kBtu/h of heat rejection. c) The design service water heating load exceeds 1,000 kBtu/h. The required heat recovery system must have the capacity to provide the smaller of: a) 60% of the peak heat rejection load at design conditions, or b) preheat of the peak service hot water draw to 85 degrees F. Exceptions: - Facilities that employ condenser heat recovery for space heating with a heat recovery design exceeding 30% of the peak water-cooled condenser load at design conditions. - Facilities that provide 60% of their service water heating from site solar or site recovered energy or from other sources.
3. Hot gas bypass or other evaporator pressure controls must be used on cooling equipment with multiple step or continuous capacity unloading. The maximum amount of hot gas bypass must be 50% of total capacity if ≤ 240 kBtu/h and 25% of total capacity if > 240 kBtu/h. Unitary packaged systems ≤ 90 kBtu/h are exempted from this requirement.
4. Hydronic systems that use a common return system for both hot water and chilled water must not be used.

Requirements Specific To: Water Heater 1 :

1. Service water heating system design loads for the purpose of sizing systems and equipment must be determined in accordance with manufacturers' published sizing guidelines.
2. Service water heating equipment used solely for heating potable water, pool heaters, and hot water storage tanks must meet the following minimum efficiency: Unknown hot water system type. Efficiency requirements can not be determined.
3. Insulation must be provided for recirculating system piping, including the supply and return piping of a circulating tank type water heater.
4. Systems designed to maintain usage temperatures in hot water pipes, such as recirculating hot water systems or heat trace, must be equipped with automatic time switches or other controls that can be set to switch off the temperature maintenance system during extended periods when hot water is not required.

- When used to maintain storage tank water temperature, recirculating pumps must be equipped with controls limiting operation to the start of the heating cycle to a maximum of 5 minutes after the end of the heating cycle.

Generic Requirements: Must be met by all systems to which the requirement is applicable:

- Design heating and cooling loads for the building must be determined using procedures in the ASHRAE Handbook of Fundamentals or an approved equivalent calculation procedure.
- Each heating or cooling system serving a single zone must have its own temperature control device.
- Thermostats controlling both heating and cooling must be capable of maintaining a 5 degrees F deadband (a range of temperature where no heating or cooling is provided).
 - Exception: Deadband capability is not required if the thermostat does not have automatic changeover capability between heating and cooling.
- The system or zone control must be a programmable thermostat or other automatic control meeting the following criteria:a) capable of setting back temperature to 55 degrees F during heating and setting up to 85 degrees F during coolingb) capable of automatically setting back or shutting down systems during unoccupied hours using 7 different day schedulesc) have an accessible 2-hour occupant override) have a battery back-up capable of maintaining programmed settings for at least 10 hours without power.
 - Exception: A setback or shutoff control is not required on thermostats that control systems serving areas that operate continuously.
- All pipes serving space-conditioning systems must be insulated as follows: Hot water piping for heating systems: 1 in. for pipes $\leq 1\frac{1}{2}$ -in. nominal diameter 2 in. for pipes $> 1\frac{1}{2}$ -in. nominal diameter. Chilled water, refrigerant, and brine piping systems: 1 in. insulation for pipes $\leq 1\frac{1}{2}$ -in. nominal diameter 1 $\frac{1}{2}$ in. insulation for pipes $> 1\frac{1}{2}$ -in. nominal diameter. Steam piping: 1 $\frac{1}{2}$ in. insulation for pipes $\leq 1\frac{1}{2}$ -in. nominal diameter 3 in. insulation for pipes $> 1\frac{1}{2}$ -in. nominal diameter.
 - Exception: Pipe insulation is not required for factory-installed piping within HVAC equipment.
 - Exception: Pipe insulation is not required for piping that conveys fluids having a design operating temperature range between 55 degrees F and 105 degrees F.
 - Exception: Pipe insulation is not required for piping that conveys fluids that have not been heated or cooled through the use of fossil fuels or electric power.
 - Exception: Pipe insulation is not required for runout piping not exceeding 4 ft in length and 1 in. in diameter between the control valve and HVAC coil.
- Service hot water piping, where required, must be insulated to $\frac{1}{2}$ in. if pipe less than 1.5 in. nominal diameter. Larger pipe must be insulated to 1 in.. Pipe insulation will have a conductivity of less than 0.28 Btu.in/(h-ft²-degrees F).
- Temperature controlling means must be provided to limit the maximum temperature of water delivered from lavatory faucets in public facility restrooms to 110 degrees F.
- Heating and cooling system design loads for sizing systems and equipment must be determined using generally accepted engineering standards and handbooks acceptable to the adopting authority (for example, ASHRAE Handbook of Fundamentals).
- Hot water space-heating systems with a capacity exceeding 300 kBtu/h supplying heated water to comfort conditioning systems must include controls that automatically reset supply water temperatures by representative building loads (including return water temperature) or by outside air temperature. Exceptions: - Where the supply temperature reset controls cannot be implemented without causing improper operation of heating, cooling, humidification, or dehumidification systems. - Hydronic systems that use variable flow to reduce pumping energy.
- Chilled water space-cooling systems with a capacity exceeding 300 kBtu/h supplying chilled water for comfort conditioning systems must include controls that automatically reset supply water temperatures by representative building loads (including return water temperature) or by outside air temperature. Exceptions: - Where the supply temperature reset controls cannot be implemented without causing improper operation of heating, cooling, humidification, or dehumidification systems. - Hydronic systems that use variable flow to reduce pumping energy.
- Hydronic systems must be proportionately balanced in a manner to first minimize throttling losses, then the pump impeller must be trimmed or pump speed must be adjusted to meet design flow conditions. Each hydronic system must have either the ability to measure differential pressure increase across the pump or test ports at each side of each pump. Exceptions: - Pumps with pump motors of 10 hp or less. - When throttling results in no $> 5\%$ of the nameplate horsepower draw, or 3 hp, whichever is greater, above that required if the impeller was trimmed.
- Where zone heating and cooling are controlled by separate zone thermostats, means (such as limit switches, mechanical stops, or, for DDC systems, software programming) must be provided to prevent simultaneous heating and cooling to the zone.
- Outdoor air supply and exhaust systems must have motorized dampers that automatically shut when the systems or spaces served are not in use. Dampers must be capable of automatically shutting off during preoccupancy building warm-up, cool-down, and setback, except when ventilation reduces energy costs (e.g., night purge) or when ventilation must be supplied to meet code requirements. Both outdoor air supply and exhaust air dampers must have a maximum leakage rate of 3 cfm/ft² at 1.0 in w.g. when tested in accordance with AMCA Standard 500.
 - Exception: Gravity (non-motorized) dampers are acceptable in buildings less than three stories in height.
 - Exception: Systems with a design outside air intake or exhaust capacity of 300 cfm (140 L/s) or less that are equipped with motor operated dampers that open and close when the unit is energized and de-energized, respectively.
- Stair and elevator shaft vents must be equipped with motorized dampers capable of being automatically closed during normal building operation and interlocked to open as required by fire and smoke detection systems. All gravity outdoor air supply and exhaust hoods, vents, and ventilators must be equipped with motorized dampers that will automatically shut when the spaces

- served are not in use. Exceptions: - Gravity (non-motorized) dampers are acceptable in buildings less than three stories in height above grade. - Ventilation systems serving unconditioned spaces.
15. Where a zone is served by a system(s) with both humidification and dehumidification capability, means (such as limit switches, mechanical stops, or software programming) must be provided to prevent simultaneous operation of humidification and dehumidification equipment.
 - Exception: Zones served by desiccant systems, used with direct evaporative cooling in series; Systems serving zones where specific humidity levels are required.
 16. All freeze protection systems, including self-regulating heat tracing, must include automatic controls capable of shutting off the systems when outside air temperatures are above 40 degrees F or when the conditions of the protected fluid will prevent freezing. Snow- and ice-melting systems must include automatic controls capable of shutting off the systems when the pavement temperature is above 50 degrees F and no precipitation is falling, and an automatic or manual control that will allow shutoff when the outdoor temperature is above 40 degrees F.
 17. Systems with design outside air capacities >3,000 cfm serving areas having an average design occupancy density exceeding 100 people per 1000 ft² must include means to automatically reduce outside air intake below design rates when spaces are partially occupied. Ventilation controls must be in compliance with ASHRAE Standard 62 and local standards.
 18. Duct and pipe insulation exposed to weather must be suitable for outdoor service; e.g., protected by aluminum, sheet metal, painted canvas, or plastic cover. Cellular foam insulation must be protected as above or painted with a coating that is water retardant and provides shielding from solar radiation that can cause degradation of the material. Insulation covering chilled water piping, refrigerant suction piping, or cooling ducts located outside the conditioned space must include a vapor retardant located outside the insulation (unless the insulation is inherently vapor retardant), all penetrations and joints of which must be sealed.
 19. Duct Sealing Requirements: - Pressure sensitive tape prohibited as the primary sealant - Longitudinal and transverse seams for ducts in unconditioned spaces - Longitudinal and transverse seams and duct wall penetrations for ducts outside the building - Transverse seams on buried ducts
 20. All supply and return ducts and plenum installed as part of an HVAC air distribution system must be thermally insulated: R-8 for supply air ducts located outside the building, R-6 for supply air ducts in ventilated attics and in unvented attic above insulated ceiling, R-1.9 for supply air ducts in unvented attic with roof insulation, R-3.5 for supply air duct insulation in unconditioned and underground spaces, R-3.5 for return air ducts located outside the building, in ventilated attics and in unvented attic above insulated ceiling.
 21. Hydronic systems that use a common return system for both hot water and chilled water must not be used.
 22. Where humidistatic controls are provided, such controls must prevent reheating, mixing of hot and cold air streams, or other means of simultaneous heating and cooling of the same air stream. Exceptions: - capability to first reduce flow rate - cooling capacity <80 kBtu/h and capability to unload cooling equipment - cooling capacity <40 kBtu/h - rigid humidity requirements - site-recovered or site-solar energy sources or - use of a desiccant systems.
 23. When a chilled water plant includes more than one chiller, provisions must be made so that the flow in the chiller plant can be automatically reduced, proportionately when one or more chiller is shut down. Chillers that are piped in series for the purpose of increasing the temperature differential must be considered as one chiller.
 24. When a boiler plant includes more than one boiler, provisions must be made so that the flow in the boiler plant can be automatically reduced, correspondingly, when a boiler is shut down.
 25. Individual fan systems with a design supply air capacity of 5000 cfm or greater and minimum outside air supply of 70% or greater of the supply air capacity must have an energy recovery system with at least a 50% effectiveness. Exceptions: - Systems serving spaces that are not cooled and heated to <60 degrees F. - Commercial kitchen hoods (grease) classified as Type 1 by NFPA 96 - Systems exhausting toxic, flammable, paint, or corrosive fumes or dust If an air economizer is also required, heat recovery must be bypassed or controlled to permit air economizer operation.
 26. Individual kitchen exhaust hoods larger than 5000 cfm must be provided with make-up air sized for at least 50% of exhaust air volume that is uncooled and either unheated or heated to no more than 60 degrees F Exceptions: - Where hoods are used to exhaust ventilation air that would otherwise exfiltrate or be exhausted by other fan systems. - Certified grease extractor hoods that require a face velocity no >60 fpm.
 27. Buildings with fume hood systems having a total exhaust rate >15,000 cfm must either have variable air volume hood design, exhaust air heat recovery, or separate make up air supply meeting the following makeup air requirements: - at least 75% of exhaust flow rate - heated to no more than 2 degrees F below room setpoint temperature - cooled to no lower than 2 degrees F above room setpoint temperature - no humidification added - no simultaneous heating and cooling

BECKER

structural engineers, inc.

March 20, 2008

Ms. Jeanie Bourke
Inspections Services Division
City of Portland
389 Congress St., Room 315
Portland, ME 04101

UNIVERSITY OF NEW ENGLAND - COLLEGE OF PHARMACY
PORTLAND, MAINE

Dear Jeanie,

Please find enclosed a revised Structural Statement of Special Inspections for the University of New England – College of Pharmacy. This was revised during the permit review process to include Special Inspection of masonry. This was previously emailed to Mike Nugent in PDF form and he requested that a new hard copy be sent to you. Please contact me with any questions.

Sincerely,
BECKER STRUCTURAL ENGINEERS, INC.



Daniel S. Burne, P.E.
Associate

MAR 21 2008

BECKER

STRUCTURAL ENGINEERS, INC.

Statement of Special Inspections

College of Pharmacy
University of New England
Portland, Maine
March 13, 2008

Statement Prepared by
Structural Engineer of Record
Becker Structural Engineers, Inc.
75 York Street
Portland, ME 04101
207. 879. 1838

Owner
University of New England
11 Hills Beach Rd.
Biddeford, ME
207. 283. 0170

Architect of Record
Port City Architecture
65 Newbury St.
Portland, ME 04101
207. 761. 9000

Contractor
Allied/Cook Construction
PO Box 1396
Portland, ME 04101
207. 772. 2888

MAR 21 2008

Statement of Special Inspections - Exhibit A

Project: *University of New England – College of Pharmacy*

Location: *Portland, Maine*

Owner: *University of New England*

This *Statement of Special Inspections* encompass the following discipline:

Structural Mechanical/Electrical/Plumbing
 Architectural Other: _____

Design Professional in Responsible Charge: *Paul B. Becker, P.E.*

Firm Name: *Becker Structural Engineers, Portland, ME*

(Note: *Statement of Special Inspections* for other disciplines may be included under a separate cover)

This *Statement of Special Inspections* is submitted as a condition for permit issuance in accordance with the Special Inspection and Structural Testing requirements of the Building Code. It includes a schedule of Special Inspection services applicable to this project as well as the name of the Structural Special Inspection Coordinator (SSIC) and the identity of other approved agencies to be retained for conducting these inspections and tests.

The Structural Special Inspection Coordinator shall keep records of all inspections and shall furnish inspection reports to the Building Code Official (BCO) and the Structural Registered Design Professional in Responsible Charge (SRDP). Discovered discrepancies shall be brought to the immediate attention of the Contractor for correction. If such discrepancies are not corrected, the discrepancies shall be brought to the attention of the Building Official and the Structural Registered Design Professional in Responsible Charge. The Special Inspection program does not relieve the Contractor of his or her responsibilities.

Interim reports shall be submitted to the Building Official and the Structural Registered Design Professional in Responsible Charge at an interval determined by the SSIC and the BCO.

A *Final Report of Special Inspections* documenting completion of all required Special Inspections, testing and correction of any discrepancies noted in the inspections shall be submitted to the BCO prior to issuance of a Certificate of Use and Occupancy.

Job site safety and means and methods of construction are solely the responsibility of the Contractor.

Interim Report Frequency: Upon request of Building Official _____ or per attached schedule.

Prepared by:

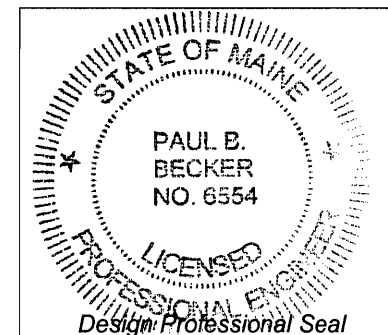
Paul B. Becker, P.E.

(type or print name of the Structural Registered Design Professional in Responsible Charge)

Signature

3-13-08

Date



Owner's Authorization:

Building Code Official's Acceptance:

Signature

Date

Signature

Date

Statement of Special Inspections (Continued) - Exhibit A

List of Agents

Project: *University of New England – College of Pharmacy*

Location: *Portland, Maine*

Owner: *University of New England*

This *Statement of Special Inspections* encompass the following discipline:

- Structural Mechanical/Electrical/Plumbing
 Architectural Other: _____

(Note: *Statement of Special Inspections* for other disciplines may be included under a separate cover)

This Statement of Special Inspections / Quality Assurance Plan includes the following building systems:

- | | |
|--|--|
| <input checked="" type="checkbox"/> Soils and Foundations | <input type="checkbox"/> Spray Fire Resistant Material |
| <input checked="" type="checkbox"/> Cast-in-Place Concrete | <input type="checkbox"/> Cold-Formed Steel Framing |
| <input type="checkbox"/> Precast Concrete | <input type="checkbox"/> Exterior Insulation and Finish System |
| <input checked="" type="checkbox"/> Masonry | <input type="checkbox"/> Mechanical & Electrical Systems |
| <input checked="" type="checkbox"/> Structural Steel | <input type="checkbox"/> Architectural Systems |
| <input type="checkbox"/> Wood Construction | <input type="checkbox"/> Special Cases |

Special Inspection Agencies	Firm	Address, Telephone, e-mail
1. Structural Special Inspection Coordinator (SSIC)	<i>Becker Structural Engineers (BSE)</i>	<i>75 York Street Portland, ME 04107 (207) 879-1838 info@beckerstructural.com</i>
2. Special Inspector (SI 1)	<i>Becker Structural Engineers (BSE)</i>	<i>75 York Street Portland, ME 04107 (207) 879-1838 info@beckerstructural.com</i>
3. Special Inspector (SI 2)	<i>Haley & Aldrich, Inc.</i>	<i>75 Washington Ave Suite 203 Portland, ME 04101</i>
4. Testing Agency (TA 1)	<i>To Be Determined</i>	
5. Testing Agency (TA 2)		
6. Other (O1)		

Note: The inspectors and testing agencies shall be engaged by the Owner or the Owner's Agent, and not by the Contractor or Subcontractor whose work is to be inspected or tested. Any conflict of interest must be disclosed to the Building Official, prior to commencing work.

Statement of Special Inspections (Continued) - Exhibit A

Final Report of Special Inspections (SSIC/SI 1)

[To be completed by the Structural Special Inspections Coordinator (SSIC/SI 1). Note that all Agent's Final Reports must be received prior to issuance.]

Project: *University of New England – College of Pharmacy*

Location: *Portland, Maine*

Owner: *University of New England*

Owner's Address: *11 Hills Beach Rd.
Biddeford, ME 04005*

Architect of Record: *Lita Semrau*
(name)

Port City Architecture
(firm)

Structural Registered Design

Professional in Responsible Charge: *Paul B. Becker*
(name)

Becker Structural Engineers
(firm)

To the best of my information, knowledge and belief, the Special Inspections required for this project, and itemized in the *Statement of Special Inspections* submitted for permit, have been performed and all discovered discrepancies have been reported and resolved other than the following:

Comments:

(Attach continuation sheets if required to complete the description of corrections.)

Interim reports submitted prior to this final report form a basis for and are to be considered an integral part of this final report.

Respectfully submitted,
Structural Special Inspection Coordinator

(Type or print name)

(Firm Name)

Signature

Date

Licensed Professional Seal

Statement of Special Inspections (Continued) - Exhibit A
Special Inspector's/Agent's Final Report

Project: *University of New England – College of Pharmacy*

Special Inspector

or Agent:

(name)

Haley & Aldrich, Inc.

(firm)

Designation: SI-2

To the best of my information, knowledge and belief, the Special Inspections or testing required for this project, and designated for this Inspector/Agent in the *Statement of Special Inspections* submitted for permit, have been performed and all discovered discrepancies have been reported and resolved other than the following:

Comments:

(Attach continuation sheets if required to complete the description of corrections.)

Interim reports submitted prior to this final report form a basis for and are to be considered an integral part of this final report.

Respectfully submitted,
 Special Inspector or Agent:

 (Type or print name)

 Signature

 Date

**Licensed Professional Seal
 or
 Certification Number**

Statement of Special Inspections (Continued) - Exhibit A
Special Inspector's/Agent's Final Report

Project: *University of New England – College of Pharmacy*

Special Inspector
or Agent:

(name)

(firm)

Designation: TA1

To the best of my information, knowledge and belief, the Special Inspections or testing required for this project, and designated for this Inspector/Agent in the *Statement of Special Inspections* submitted for permit, have been performed and all discovered discrepancies have been reported and resolved other than the following:

Comments:

(Attach continuation sheets if required to complete the description of corrections.)

Interim reports submitted prior to this final report form a basis for and are to be considered an integral part of this final report.

Respectfully submitted,
Special Inspector or Agent:

(Type or print name)

Signature

Date

SEAL NOT REQUIRED FOR
TESTING AGENCY

Licensed Professional Seal
or
Certification Number

Special Inspections – Exhibit B

Qualifications of Inspectors and Test Agency

List of Minimum Qualifications

Schedule of Structural Inspections

Schedule of Special Inspections - Exhibit B

Qualifications of Inspectors and Testing Technicians

The qualifications of all personnel performing Special Inspection and testing activities are subject to the approval of the Building Official. The credentials of all Inspectors and testing technicians shall be provided if requested.

Key for Minimum Qualifications of Inspection Agents:

When the Registered Design Professional in Responsible Charge deems it appropriate that the individual performing a stipulated test or inspection have a specific certification or license as indicated below, such designation shall appear below the *Agency Number* on the Schedule.

PE/SE	Structural Engineer – a licensed SE or PE specializing in the design of building structures
PE/GE	Geotechnical Engineer – a licensed PE specializing in soil mechanics and foundations
EIT	Engineer-In-Training – a graduate engineer who has passed the Fundamentals of Engineering examination

American Concrete Institute (ACI) Certification

ACI-CFTT	Concrete Field Testing Technician – Grade 1
ACI-CCI	Concrete Construction Inspector
ACI-LTT	Laboratory Testing Technician – Grade 1&2
ACI-STT	Strength Testing Technician

American Welding Society (AWS) Certification

AWS-CWI	Certified Welding Inspector
AWS/AISC-SSI	Certified Structural Steel Inspector

American Society of Non-Destructive Testing (ASNT) Certification

ASNT	Non-Destructive Testing Technician – Level II or III.
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International Code Council (ICC) Certification

ICC-SMSI	Structural Masonry Special Inspector
ICC-SWSI	Structural Steel and Welding Special Inspector
ICC-SFSI	Spray-Applied Fireproofing Special Inspector
ICC-PCSI	Prestressed Concrete Special Inspector
ICC-RCSI	Reinforced Concrete Special Inspector

National Institute for Certification in Engineering Technologies (NICET)

NICET-CT	Concrete Technician – Levels I, II, III & IV
NICET-ST	Soils Technician - Levels I, II, III & IV
NICET-GET	Geotechnical Engineering Technician - Levels I, II, III & IV

Exterior Design Institute (EDI) Certification

EDI-EIFS	EIFS Third Party Inspector
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Other

Schedule of Special Inspections – Exhibit B SOILS & FOUNDATION CONSTRUCTION

©Becker Structural Engineers, Inc. 2005

Project: University of New England – College of Pharmacy, Portland, ME
Date Prepared: 03/13/2008

VERIFICATION AND INSPECTION	Y/N	EXTENT: CONTINUOUS, PERIODIC, SUBMITTAL, OR NONE	COMMENTS	AGENT	AGENT QUALIFICATION	DATE	INITIAL
IBC Section 1704.7, 1704.8, 1704.9							
1. Verify existing soil conditions, fill placement and load bearing requirements							
a. Prior to placement of prepared fill, determine that the site has been prepared in accordance with the approved soils report.	Y	P	IBC 1704.7.1	SI2	PE/GE or EIT		
b. During placement and compaction of fill material, verify material being used and maximum lift thickness comply with the approved soils report.	Y	P	IBC 1704.7.2	SI2	PE/GE or EIT		
c. Test in-place dry density of compacted fill complies with the approved soils report.	Y	P	IBC 1704.7.2	TA1	NICET-ST or NICET-GET		
2. Pile foundations:							
a. Observe and record procedures for static load testing of piles.	N	C	IBC 1704.8	SI2	PE/GE or EIT		
b. Observe and record procedures for dynamic load testing of piles.	N	C		SI2	PE/GE or EIT		
c. Record installation of each pile and results of load test. Include cutoff and tip elevations of each pile relative to permanent reference.	N	C		TA1	NICET-GET		
d. Test welded splices of steel piles	N	C	AWS D1.1	TA1	AWS-CWI		
3. Pier foundations: Verify installation of pier foundations for buildings assigned to Seismic Design Category C, D, E or F.	N	C	IBC 1704.9	SI2	PE/GE or EIT		
a. Verify pier diameter and length	N	C		SI2	PE/GE or EIT		
b. Verify pier embedment (socket) into bedrock	N	P		SI2	PE/GE or EIT		
c. Verify suitability of end bearing strata	N	P		SI2	PE/GE or EIT		

Soils and Foundations Construction has been reviewed in accordance with sections 1704.7, 8 & 9 of the IBC Code

Special Inspector _____

Date _____

Page of _____

Schedule of Special Inspections – Exhibit B

CONCRETE CONSTRUCTION

©Becker Structural Engineers, Inc. 2005

Project: University of New England – College of Pharmacy, Portland, ME
Date Prepared: 03/13/2008

VERIFICATION AND INSPECTION	Y/N	EXTENT: CONTINUOUS, PERIODIC, SUBMITTAL, OR NONE	COMMENTS	AGENT	AGENT QUALIFICATION	DATE	INITIAL
IBC Section 1704.4							
1. Inspection of reinforcing steel, including prestressing tendons, and placement	Y	P	ACI 318: 3.5, 7.1-7.7	SII	PE/SE or EIT		
2. Inspection of reinforcing steel welding in accordance with Table 1704.3, Item 5B	N		Welding of Reinf Not Allowed	TA1	AWS-CWI		
3. Inspect bolts to be installed in concrete prior to and during placement of concrete where allowable loads have been increased	N	C	IBC 1912.5	SII	PE/SE or EIT		
4. Verifying use of required design mix	Y	P	ACI 318: Ch 4, 5.2-5.4	SII	PE/SE or EIT		
5. At time fresh concrete is sampled to fabricate specimens for strength test, perform slump and air content test and temperature	Y	C	ASTM C 172 ASTM C 31 ACI 318: 5.6, 5.8	TA1	ACI-CFTT or ACI-STT		
6. Inspection of concrete and shotcrete placement for proper application techniques	Y	C	ACI 318: 5.9, 5.10	SII	PE/SE or EIT		
7. Inspection for maintenance of specified curing temperature and techniques	Y	P	ACI 318: 5.11-5.13	SII	PE/SE or EIT		
8. Inspection of Prestressed Concrete							
a. Application of prestressing force.	N	C	ACI 318: 18.20	SII	PE/SE or EIT		
b. Grouting of bonded prestressing tendons in seismic force resisting system	N	C	ACI 318: 18.18.4	SII	PE/SE or EIT		
9. Erection of precast concrete members	N	P	ACI 318: Ch 16	SII	PE/SE or EIT		
10. Verification of in-situ concrete strength, prior to stressing of tendons in post-tensioned concrete and prior to removal of shores and forms beams and structural slabs	N	P	ACI 318: 6.2	TA1	ACI-STT		

Concrete Construction has been reviewed in accordance with section 1704.4 of the IBC Code

Special Inspector _____

Date _____

Page of _____

Schedule of Special Inspections – Exhibit B
MASONRY CONSTRUCTION – LEVEL 1 (NON-ESSENTIAL FACILITY)

©Becker Structural Engineers, Inc. 2005

Project: University of New England – College of Pharmacy, Portland, ME
 Date Prepared: 03/13/2008

VERIFICATION AND INSPECTION IBC Section 1704.5	Y/N	EXTENT: CONTINUOUS, PERIODIC, SUBMITTAL, OR NONE	COMMENTS	AGENT	AGENT QUALIFICATION	DATE	INITIAL
1. As masonry construction begins, the following shall be verified to ensure compliance:							
a. Proportions of site-prepared mortar.	Y	P	ACI530.1, 2.6A	SII	PE/SE or EIT		
b. Construction of mortar joints.	Y	P	ACI530.1, 3.3B	SII	PE/SE or EIT		
c. Location of reinforcement and connectors.	Y	P	ACI530.1, 3.4, 3.6A	SII	PE/SE or EIT		
d. Prestressing technique.	N	P	ACI530.1, 3.6B	SII	PE/SE or EIT		
e. Grade and size of prestressing tendons and anchorages.	N	P	ACI530.1, 2.4B, 2.4H	SII	PE/SE or EIT		
2. The inspection program shall verify:							
a. Size and location of structural elements.	Y	P	ACI530.1, 3.3G	SII	PE/SE or EIT		
b. Type, size and location of anchors, including other details of anchorage of masonry to structural members, frames or other construction.	Y	P	ACI530, 1.2.2(e), 2.1.4, 3.1.6	SII	PE/SE or EIT		
c. Specified size, grade and type of reinforcement.	Y	P	ACI530, 1.12, ACI530.1, 2.4, 3.4	SII	PE/SE or EIT		
d. Welding of reinforcing bars.	N	Welding of Reinf. Not permitted	AC530, 2.1.10.6.2, 3.2.4 (b)	AWS-CWI	PE/SE or EIT		
e. Protection of masonry during cold weather (temperature below 40°F) or hot weather (temperature above 90°F).	Y	P	IBC 2104.3, 2104.4; ACI530.1, 1.8C, 1.8D	SII	PE/SE or EIT		
f. Application and measurement of prestressing force.	N	P	ACI530.1, 3.6B	SII	PE/SE or EIT		
3. Prior to grouting, the following shall be verified to ensure compliance:							
a. Grout space is clean.	Y	P	ACI530.1, 3.2D	SII	PE/SE or EIT		
b. Placement of reinforcement and connectors and prestressing tendons and anchorages.	Y	P	ACI530, 1.12, ACI530.1, 3.4	SII	PE/SE or EIT		

Masonry Construction has been reviewed in accordance with section 1704.5 of the IBC Code

Special Inspector _____

Date _____

Page of _____

Schedule of Special Inspections – Exhibit B
MASONRY CONSTRUCTION – LEVEL 1 (NON-ESSENTIAL FACILITY)

©Becker Structural Engineers, Inc. 2005

Project: University of New England – College of Pharmacy, Portland, ME
Date Prepared: 03/13/2008

VERIFICATION AND INSPECTION IBC Section 1704.5	Y/N	EXTENT: CONTINUOUS, PERIODIC, SUBMITTAL, OR NONE	COMMENTS	AGENT	AGENT QUALIFICATION	DATE	INITIAL
c. Proportions of site-prepared grout and prestressing grout for bonded tendons.	Y	P	ACI530.1, 2.6B	SII	PE/SE or EIT		
d. Construction of mortar joints.	Y	P	ACI530.1, 3.3B	SII	PE/SE or EIT		
4. Grout placement shall be verified to ensure compliance with code and construction document provisions.	Y	C	ACI530.1, 3.5	SII	PE/SE or EIT		
a. Grouting of prestressing bonded tendons.	N	C	ACI530.1, 3.6C	SII	PE/SE or EIT		
5. Preparation of any required grout specimens, mortar specimens and/or prisms shall be observed.	Y	C	IBC 2105.2.2, 2105.3; ACI530.1, 1.4	SII	PE/SE or EIT		
6. Compliance with required inspection provisions of the construction documents and the approved submittals shall be verified.	Y	P	ACI530.1, 1.5	SII	PE/SE or EIT		

Masonry Construction has been reviewed in accordance with section 1704.5 of the IBC Code

Special Inspector _____ Date _____

Page of _____

Schedule of Special Inspections – Exhibit B

STEEL CONSTRUCTION

Project: University of New England – College of Pharmacy, Portland, ME
 Date Prepared: 03/13/2008

VERIFICATION AND INSPECTION	Y/N	EXTENT: CONTINUOUS, PERIODIC, SUBMITTAL, OR NONE	COMMENTS	AGENT	AGENT QUALIFICATION	DATE	INITIAL
IBC Section 1704.3							
1. Material verification of high-strength bolts, nuts and washers:							
a. Identification markings to conform to ASTM standards specified in the approved construction documents.	Y	S	Applicable ASTM material specifications; AISC 335, Section A3.4; AISC LRFD, Section A3.3	SII	PE/SE or EIT		
b. Manufacturer's certificate of compliance required.	Y	S		SII	PE/SE or EIT		
2. Inspection of high-strength bolting							
a. Bearing-type connections.	Y	P	AISC LRFD Section M2.5	TA1	AWS/AISC-SSI		
b. Slip-critical connections.	Y	C or P (method dependent)	IBC Sect 1704.3.3	TA1	AWS/AISC-SSI		
3. Material verification of structural steel (IBC Sect 1708.4):							
a. Identification markings to conform to ASTM standards specified in the approved construction documents.	Y	S	ASTM A 6 or ASTM A 568 IBC Sect 1708.4	SII	PE/SE or EIT		
b. Manufacturers' certified mill test reports.	Y	S	ASTM A 6 or ASTM A 568 IBC Sect 1708.4	SII	PE/SE or EIT		
4. Material verification of weld filler materials:							
a. Identification markings to conform to AWS specification in the approved construction documents.	Y	S	AISC, ASD, Section A3.6; AISC LRFD, Section A3.5	SII	PE/SE or EIT		
b. Manufacturer's certificate of compliance required.	Y	S		SII	PE/SE or EIT		

Steel Construction has been reviewed in accordance with section 1704.3 of the IBC Code

Special Inspector _____

Date _____

Page of _____

Schedule of Special Inspections – Exhibit B

STEEL CONSTRUCTION

Project: University of New England – College of Pharmacy, Portland, ME
 Date Prepared: 03/13/2008

VERIFICATION AND INSPECTION IBC Section 1704.3	Y/N	EXTENT: CONTINUOUS, PERIODIC, SUBMITTAL, OR NONE	COMMENTS	AGENT	AGENT QUALIFICATION	DATE	INITIAL
5. Submit current AWS D1.1 welder certificate for all field welders who will be welding on this project.	Y	S	AWS D1.1	SII	PE/SE or EIT		
6. Inspection of welding (IBC 1704.3.1): a. Structural steel:							
1) Complete and partial penetration groove welds.	Y	C	AWS D1.1	TA1	AWS-CWI		
2) Multipass fillet welds.	Y	C		TA1	AWS-CWI		
3) Single-pass fillet welds > 5/16"	Y	C		TA1	AWS-CWI		
4) Single-pass fillet welds < 5/16"	Y	P		TA1	AWS-CWI		
5) Floor and Roof deck welds.	Y	P	AWS D1.3	TA1	AWS-CWI		
b. Reinforcing steel (IBC Sect 1903.5.2):							
1) Verification of weldability of reinforcing steel other than ASTM A706.	N		Welding of Reinforcement not permitted	N/A			
2) Reinforcing steel-resisting flexural and axial forces in intermediate and special moment frames, and boundary elements of special reinforced concrete shear walls and shear reinforcement.	N	C	AWS D1.4 ACI 318: 3.5.2	TA1	AWS-CWI		
3) Shear reinforcement.	N	C		TA1	AWS-CWI		
4) Other reinforcing steel.	N	P		TA1	AWS-CWI		
7. Inspection of steel frame joint details for compliance (IBC Sect 1704.3.2) with approved construction documents:							
a. Details such as bracing and stiffening.	Y	P		SII	PE/SE or EIT		
b. Member locations.	Y	P		SII	PE/SE or EIT		
c. Application of joint details at each connection.	Y	P		SII	PE/SE or EIT		

Steel Construction has been reviewed in accordance with section 1704.3 of the IBC Code

Special Inspector _____

Date _____

Page of _____

Schedule of Special Inspection Services – Exhibit B
FABRICATION AND IMPLEMENTATION PROCEDURES – STRUCTURAL STEEL

©Becker Structural Engineers, Inc. 2005

Project: University of New England – College of Pharmacy, Portland, ME

Date Prepared: 03/13/2008

VERIFICATION AND INSPECTION IBC Section 1704.2	Y/N	EXTENT: CONTINUOUS, PERIODIC, SUBMITTAL, OR NONE	COMMENTS	AGENT	AGENT QUALIFICATION	DATE	INITIAL
1. Fabrications Procedures: Review of fabricator's written procedural and quality control manuals and periodic auditing of fabrication practices by an approved special inspection agency. At the completion of fabrication, the approved fabricator shall submit a certificate of compliance to the building code official stating that the work was performed in accordance with the approved construction documents. -OR- 2. AISC or SSFNE Certification	Y	S	Fabricator shall submit one of the two qualifications	SII	PE/SE or EIT		
3. At completion of fabrication, the approved fabricator shall submit a certificate of compliance to the building code official stating that the work was performed in accordance with the approved construction documents.	Y	S	IBC 1704.2.2	SII	PE/SE or EIT		

Fabricator Qualifications have been reviewed in accordance with section 1704.2 of the IBC Code

Special Inspector _____

Date _____

Page of _____

Special Inspections – Exhibit C

Quality Assurance for Seismic Resistance Seismic Checklist

Quality Assurance for Seismic Resistance Wind Checklist

Schedule of Inspections

**(Note: participation of Architect, Mechanical Engineer,
and Electrical Engineer of Record will be required
to complete Exhibit C)**

Quality Assurance Plan – Exhibit C

QUALITY ASSURANCE FOR SEISMIC RESISTANCE CHECK LIST [IBC 1705]

Project: University of New England – College of Pharmacy, Portland, ME

Date Prepared: 01/24/2008

SEISMIC DESIGN CATEGORY:	
QUALITY ASSURANCE PLAN REQUIREMENTS (A Quality Assurance Plan, enacted through the Special Inspections requirements for this project, are in place for the following systems)	
<input type="checkbox"/> FOR SEISMIC DESIGN CATEGORY C OR HIGHER:	
Structural: <input type="checkbox"/> The seismic-force-resisting systems <input type="checkbox"/> Steel Braced Frames and associated connections/anchorage <input type="checkbox"/> Steel Moment Frames and associated connections <input type="checkbox"/> Shear walls: <input type="checkbox"/> CMU <input type="checkbox"/> Wood <input type="checkbox"/> Concrete <input type="checkbox"/> Diaphragms: <input type="checkbox"/> Floor <input type="checkbox"/> Roof <input type="checkbox"/> Other:	SER
Mechanical/Piping: <input type="checkbox"/> Heating, ventilating and air-conditioning (HVAC) ductwork containing hazardous materials and anchorage of such ductwork <input type="checkbox"/> Hazardous Material: <input type="checkbox"/> Hazardous Material: <input type="checkbox"/> Piping systems and mechanical units containing flammable, combustible or highly toxic materials <input type="checkbox"/> Material: <input type="checkbox"/> Material:	MER
Electrical: <input type="checkbox"/> Anchorage of electrical equipment used for emergency or standby power systems <input type="checkbox"/> Equipment: <input type="checkbox"/> Equipment: <input type="checkbox"/> Equipment:	EER
<input type="checkbox"/> ADDITIONAL SYSTEMS FOR SEISMIC DESIGN CATEGORY D OR HIGHER:	
Architectural: <input type="checkbox"/> Exterior wall panels and their anchorage <input type="checkbox"/> Precast Concrete <input type="checkbox"/> Brick <input type="checkbox"/> Stone: <input type="checkbox"/> Other: <input type="checkbox"/> Suspended ceiling systems and their anchorage <input type="checkbox"/> Access floors and their anchorage <input type="checkbox"/> Steel storage racks and their anchorage <input type="checkbox"/> Retail Storage Racks <input type="checkbox"/> High Density Files <input type="checkbox"/> Other: <input type="checkbox"/> Life-safety component required to function after an earthquake: <input type="checkbox"/> Engineered Egress Stairs <input type="checkbox"/> Fire Protection Sprinkler System <input type="checkbox"/> Other: <input type="checkbox"/> Other: <input type="checkbox"/> Other:	RAR
<input type="checkbox"/> ADDITIONAL SYSTEMS FOR SEISMIC DESIGN CATEGORY D OR HIGHER:	
Electrical: <input type="checkbox"/> Electrical equipment	EER

NOT REQUIRED (SDC B)

Structural Engineer of Record (SER): <hr/> Signature _____ Date _____ Mechanical Engineer of Record (MER):	Registered Architect of Record (RAR): <hr/> Signature _____ Date _____ Electrical Engineer of Record (EER):
<hr/> Signature _____ Date _____ Building Code Official's Acceptance:	<hr/> Signature _____ Date _____
<hr/> Signature _____ Date _____ ©Becker Structural Engineers, Inc. 2005	<hr/> Signature _____ Date _____

QUALITY ASSURANCE FOR WIND REQUIREMENTS CHECK LIST [IBC 1706]

Project: University of New England – College of Pharmacy, Portland, ME

Date Prepared: 01/24/2008

Wind Exposure:

REQUIRED	NOT REQUIRED	NOT APPLICABLE	QUALITY ASSURANCE PLAN REQUIREMENTS (A Quality Assurance Plan is required where indicated below)
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	In wind exposure Categories A and B, where the 3-second-gust basic wind speed is 120 miles per hour (mph) (52.8 <i>m/sec</i>) or greater.
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	In wind exposure Categories C and D, where the 3-second-gust basic wind speed is 110 mph (49 <i>m/sec</i>) or greater.

Prepared by:

Building Code Official's Acceptance:

Signature

Date

Signature

Date

Special Inspections – Exhibit D

Contractor's Statement of Responsibility

Fabricator's Certificate of Compliance – Exhibit D

Each approved fabricator that is exempt from Special Inspection of shop fabrication and implementation procedures per section 1704.2 of the International Building Code must submit a *Fabricator's Certificate of Compliance* at the completion of fabrication.

Project:

Fabricator's Name:

Address:

Certification or Approval Agency:

Certification Number:

Date of Last Audit or Approval:

Description of structural members and assemblies that have been fabricated:

I hereby certify that items described above were fabricated in strict accordance with the approved construction documents.

Signature

Date

Title

Attach copies of fabricator's certification or building code evaluation service report and fabricator's quality control manual

End of Statement of Special Inspections



Certificate of Design Application

From Designer:

DAN BURNE, P.E. / BECKER STRUCTURAL ENGINEERS

Date:

1/24/08

Job Name:

UNIVERSITY OF NEW ENGLAND - COLLEGE OF PHARMACY

Address of Construction:

716 STEVENS AVE, PORTLAND, ME

2003 International Building Code

Construction project was designed to the building code criteria listed below:

Building Code & Year 2006 Use Group Classification (s) B (BUSINESS)

Type of Construction 5B

Will the Structure have a Fire suppression system in Accordance with Section 903.3.1 of the 2003 IRC YES

Is the Structure mixed use? NO If yes, separated or non separated or non separated (section 302.3) _____

Supervisory alarm System? YES Geotechnical/Soils report required? (See Section 1802.2) YES

Structural Design Calculations

COMPLETED Submitted for all structural members (106.1 - 106.11)

Design Loads on Construction Documents (1603)

Uniformly distributed floor live loads (7603.11, 1807)

Floor Area Use	Loads Shown
<u>1ST CORRIDORS / STAIRS</u>	<u>100 PSF</u>
<u>CORRIDORS ABV 1ST</u>	<u>80 PSF</u>
<u>LECTURE</u>	<u>60 PSF</u>
<u>OFFICE / CLASS</u>	<u>65 PSF</u>
<u>LABORATORY</u>	<u>100 PSF</u>

Wind loads (1603.1.4, 1609)

METHOD 2 Design option utilized (1609.1.1, 1609.6)

<u>100</u>	Basic wind speed (1809.5)
<u>1.0</u>	Building category and wind importance factor, K_d (table 1604.5, 1609.5)
<u>B</u>	Wind exposure category (1609.4)
<u>±0.18</u>	Internal pressure coefficient (ASCE 7)
<u>22 PSF</u>	Component and cladding pressures (1609.1.1, 1609.6.2.2)
<u>20 PSF</u>	Main force wind pressures (7602.1.1, 1609.6.2.1)

Earth design data (1603.1.5, 1614-1623)

EQUIV. FORCE Design option utilized (1614.1)

Occ Cat 2 Seismic use group ("Category")

0.256, 0.088 Spectral response coefficients, S_D & S_{D1} (1615.1)

C Site class (1615.1.5)

YES Live load reduction

15 PSF Roof live loads (1603.1.2, 1607.11)

46 PSF + DRIFT Roof snow loads (1603.7.3, 1608)

60 Ground snow load, P_g (1608.2)

46 PSF + DRIFT If $P_g > 10$ psf, flat-roof snow load P_f

1.0 If $P_g > 10$ psf, snow exposure factor, e_s

1.0 If $P_g > 10$ psf, snow load importance factor, i_s

1.1 Roof thermal factor, C_t (1608.4)

N/A Sloped roof snowload, P_s (1608.4)

B Seismic design category (1616.3)

OBF Basic seismic force resisting system (1617.6.2)

3.0, 3.0 Response modification coefficient, R , and

deflection amplification factor, C_d (1617.6.2)

EQUIV. FORCE Analysis procedure (1616.6, 1617.5)

156K Design base shear (1617.4, 1617.5.1)

Flood loads (1803.1.6, 1612)

N/A Flood Hazard area (1612.3)

N/A Elevation of structure

Other loads

MBH UNITS Concentrated loads (1607.4)

15 PSF Partition loads (1607.5)

N/A Misc. loads (Table 1607.8, 1607.6.1, 1607.7, 1607.12, 1607.13, 1610, 1611, 2404)



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Lee Urban - Director of Planning and Development
Jeanie Bourke - Inspection Division Services Director

December 21, 2007

Becker Structural Engineers, INC
Attn. Daniel S. Burne, P. E.
75 York Street
Portland, ME 04101

RE: UNE – College of Pharmacy – 716 Stevens Ave.
CBL: 144 A005

Dear Mr. Burne,

Thank you for your request for waiver received November 20, 2007. The request is to utilize the 2006 version of the International Building Code (IBC) for the structural design.

The following are the facts:

1. The City of Portland is currently working under the IBC 2003. State Law does not allow the City to adopt the IBC 2006.
2. The Seismic Spectral Values used for the seismic design of buildings have been updated in the 2006 Edition of the IBC Code. The updated values based on the 2004 Edition of the National Earthquake Hazard Reduction Program (NEHRP) for recommendations for Seismic Regulations and FEMA supersedes the 1998 version, which is the basis of the 2003 Edition of the IBC.
3. These guidelines are based on newer, more recent data provided by the United States Geological Survey (USGS), and represent the latest science and data in the structural engineering field.
4. The portions of IBC 2006 that are less restrictive than the IBC 2003 are the Seismic requirements. The other portions of Chapter 16, IBC 2006 are either procedural modifications or are generally more restrictive than the requirements of the IBC 2003.

The Waiver Request is approved to utilize the IBC 2006 for seismic design on the above mentioned project by this office, based on the latest scientific research, and the inability of the City to adopt this code.

Yours truly,

Jeanie Bourke
Inspection Division Director



General Building Permit Application

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

Location/Address of Construction: <u>716 STEVENS AVENUE</u>		
Total Square Footage of Proposed Structure/Area <u>36,000 SF (12,000 SF FOOTPRINT)</u>		Square Footage of Lot <u>42 ± AC.</u>
Tax Assessor's Chart, Block & Lot Chart# Block# Lot# <u>144 - A - 5, 6, 7, 8, 9</u> <u>145 - A - 1, 2, 3, 4, 7, 8, 9, 10</u> <u>145 - B - 1, 2, 4, 9, 10, 11, 12, 13, 14, 21, 24, 42, 46</u> <u>290 - A - 3</u> <u>291 - A - 5, 7</u> <u>293 - C - 5</u>	Applicant * <u>must</u> be owner, Lessee or Buyer* Name <u>UNIVERSITY OF NEW ENGLAND</u> Address <u>716 STEVENS AVE.</u> City, State & Zip <u>PORTLAND, ME 04103</u>	Telephone: <u>602-2253</u> <u>ALAN</u> <u>THIBEAULT</u>
Lessee/DBA (If Applicable)	Owner (if different from Applicant) Name Address City, State & Zip	Cost Of Work: \$ <u>462,000</u> C of O Fee: \$ <u>INCL.</u> Total Fee: \$ <u>64,620.⁰⁰</u>
Current legal use (i.e. single family) <u>UNIVERSITY</u> If vacant, what was the previous use? <u>N/A</u> Proposed Specific use: <u>COLLEGE OF PHARMACY BUILDING</u> Is property part of a subdivision? <u>No</u> If yes, please name _____ Project description: <u>NEW 3-STORY ABOVE GRADE COLLEGE OF PHARMACY TEACHING, RESEARCH & ADMINISTRATIVE OFFICE FACILITY AT THE UNIVERSITY OF NEW ENGLAND - WESTBROOK COLLEGE CAMPUS IN PORTLAND.</u>		
Contractor's name: <u>ALLIED/COOK CONSTRUCTION</u> Address: <u>P.O. Box 1396</u> City, State & Zip <u>PORTLAND, ME 04104</u> Telephone: <u>772-2888</u> Who should we contact when the permit is ready: <u>MATT COOK</u> Telephone: <u>749-5525</u> Mailing address: <u>P.O. Box 1396, PORTLAND, ME 04104</u>		

Please submit all of the information outlined on the applicable Checklist. Failure to do so will result in the automatic denial of your permit.

In order to be sure the City fully understands the full scope of the project, the Planning and Development Department may request additional information prior to the issuance of a permit. For further information or to download copies of this form and other applications visit the Inspections Division on-line at www.portlandmaine.gov, or stop by the Inspections Division office, room 315 City Hall or call 874-8703.

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:

Alan Thibault

Date:

1/23/08

This is not a permit; you may not commence ANY work until the permit is issued

City of Portland, Maine - Building or Use Permit

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

Permit No: 08-0088	Date Applied For: 01/30/2008	CBL: 145 A003001
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Location of Construction: 714 STEVENS AVE	Owner Name: WESTBROOK SEMINARY & JU	Owner Address: 716 STEVENS AVE	Phone:
Business Name:	Contractor Name: Allied/Cook Construction	Contractor Address: PO Box 1396 Portland	Phone: (207) 772-2888
Lessee/Buyer's Name	Phone:	Permit Type: Institutional	

Proposed Use: University of New England - New 3 story above grade college of Pharmacy teaching research & Administrative Office Facility at the UNE Campus	Proposed Project Description: New 3 story above grade college of Pharmacy teaching research & Administrative Office Facility at the UNE Campus
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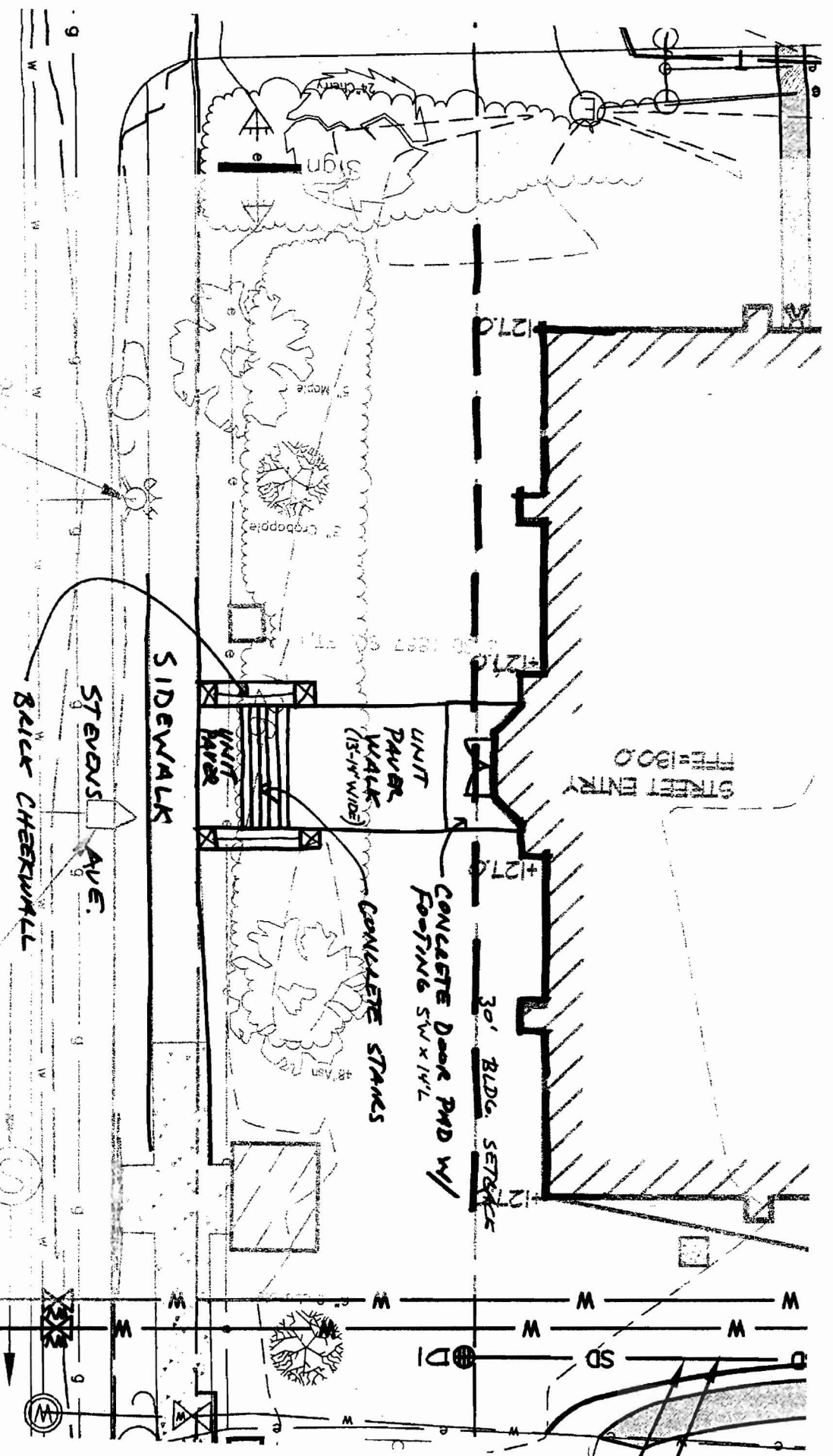
Dept: Zoning	Status: Pending	Reviewer: Marge Schmuckal	Approval Date:	Ok to Issue: <input type="checkbox"/>
Note:				
Dept: Building	Status: Pending	Reviewer:	Approval Date:	Ok to Issue: <input type="checkbox"/>
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Dept: Public Works	Status: Pending	Reviewer:	Approval Date:	Ok to Issue: <input type="checkbox"/>
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Dept: Zoning	Status:	Reviewer: Marge Schmuckal	Approval Date:	Ok to Issue: <input type="checkbox"/>
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Note:				
Dept: Planning	Status: Pending	Reviewer: Shukria Wiar	Approval Date:	Ok to Issue: <input type="checkbox"/>
Note:				

Comments:
1/30/2008-mes: The Planning Board has not approved the site plan or the conditional use appeal yet. This permit is being passed on for further review by Fire Prevention and Building Code Reviews. WAIT FOR PLANNING APPROVALS BEFORE ISSUING. RETURN TO MARGE FOR FINAL ZONING SIGN OFFS. CHANGES ARE STILL BEING MADE TO THE HEIGHT AND SETBACKS.

COP
UNE
1-29-08

1/21/08

1 1/2" = 10'





Certificate of Design

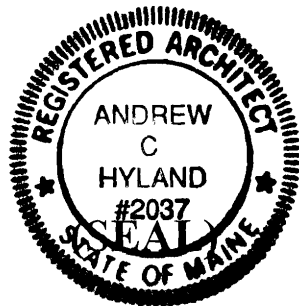
Date: 1/25/08

From: PORT CITY ARCHITECTURE, PA

These plans and / or specifications covering construction work on:

THE COLLEGE OF PHARMACY
UNIVERSITY OF NEW ENGLAND PORTLAND, ME

Have been designed and drawn up by the undersigned, a Maine registered Architect / Engineer according to the **2003 International Building Code** and local amendments.



Signature: 
Title: ANDREW C. HYLAND
PRINCIPAL

Firm: PORT CITY ARCHITECTURE

Address: 65 NEWBURY ST
PORTLAND, ME 04101

Phone: 207 761-9000

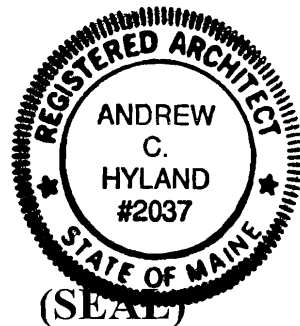
For more information or to download this form and other permit applications visit the Inspections Division on our website at www.portlandmaine.gov




Accessibility Building Code Certificate

Designer: PORT CITY ARCHITECTURE, PA
Address of Project: 716 STEVENS AVE, PORTLAND
Nature of Project: NEW 45,000 ± SF 3 STORY PLUS
BASEMENT PHARMACY COLLEGE
BUILDING ON THE UNE WESTBROOK
COLLEGE CAMPUS.

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. Residential Buildings with 4 units or more must conform to the Federal Fair Housing Accessibility Standards. Please provide proof of compliance if applicable.



Signature: 
Title: ANDREW C. HYLAND
PRINCIPAL
Firm: PORT CITY ARCHITECTURE
Address: 65 NEWBURY ST
PORTLAND, ME 04101
Phone: 207 761-9000

For more information or to download this form and other permit applications visit the Inspections Division on our website at www.portlandmaine.gov

CITY OF PORTLAND
DEPARTMENT OF PLANNING & URBAN DEVELOPMENT
389 Congress Street
Portland, Maine 04101

INVOICE FOR PERMIT FEES

Application No: 8-0088	Applicant: WESTBROOK SEMINARY & JUN
Project Name: New 3 story above grade college of	Location: 714 STEVENS AVE
CBL: 145 A003001	Development Type:
Invoice Date: 01/30/2008	

Previous Balance	-	Payment Received	+	Current Fees	-	Current Payment	=	Total Due	Payment Due Date
\$0.00		\$0.00		\$64,715.00		\$64,620.00		\$95.00	On Receipt

First Billing

Previous Balance

\$0.00

Fee Description	Qty	Fee/Deposit Charge
Certificate of Occupancy	1	\$75.00
Building Permit Fee First \$1000	1	\$30.00
Building Permit Fee Add'l \$1000	1	\$64,610.00
		\$64,715.00
Total Current Fees:	+	\$64,715.00
Total Current Payments:	-	\$64,620.00
Amount Due Now:		\$95.00

Detach and remit with payment

Bill to: WESTBROOK SEMINARY & JUNIOR COLLEGE F
716 STEVENS AVE
PORTLAND, ME 04103

CBL 145 A003001
Application No: 8-0088
Invoice Date: 01/30/2008
Invoice No: 30121
Total Amt Due: \$95.00
Payment Amount:

Make checks payable to the *City of Portland*, ATTN: Inspections, 3rd Floor, 389 Congress Street, Portland, ME 04101.

University of New England
College of Pharmacy
February 19, 2008



Occupant Load

Lower Level

Restricted Area – Mechanical / Vivarium	12
Total	12

First Floor

Lecture Hall	number of seats	121
Conf. Room	20 sf gross / person	6
Student Area (Unconcentrated Assemb.)	15 sf net / person	71
Offices	# designed for	5
Teaching Lab (Shops/Labs)	fixed seating	37
Total		240

Second Floor

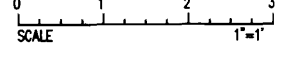
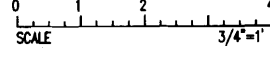
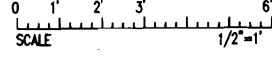
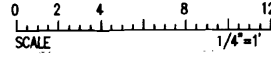
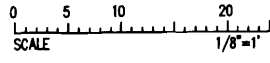
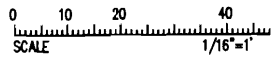
Offices	# designed for	30
Drug Info (library)	50 sf gross / person	20
Conf. Room (classroom)	20 sf gross / person	17
Teaching Lab. (Shops/Labs)	fixed seating	33
Total		100

Third Floor

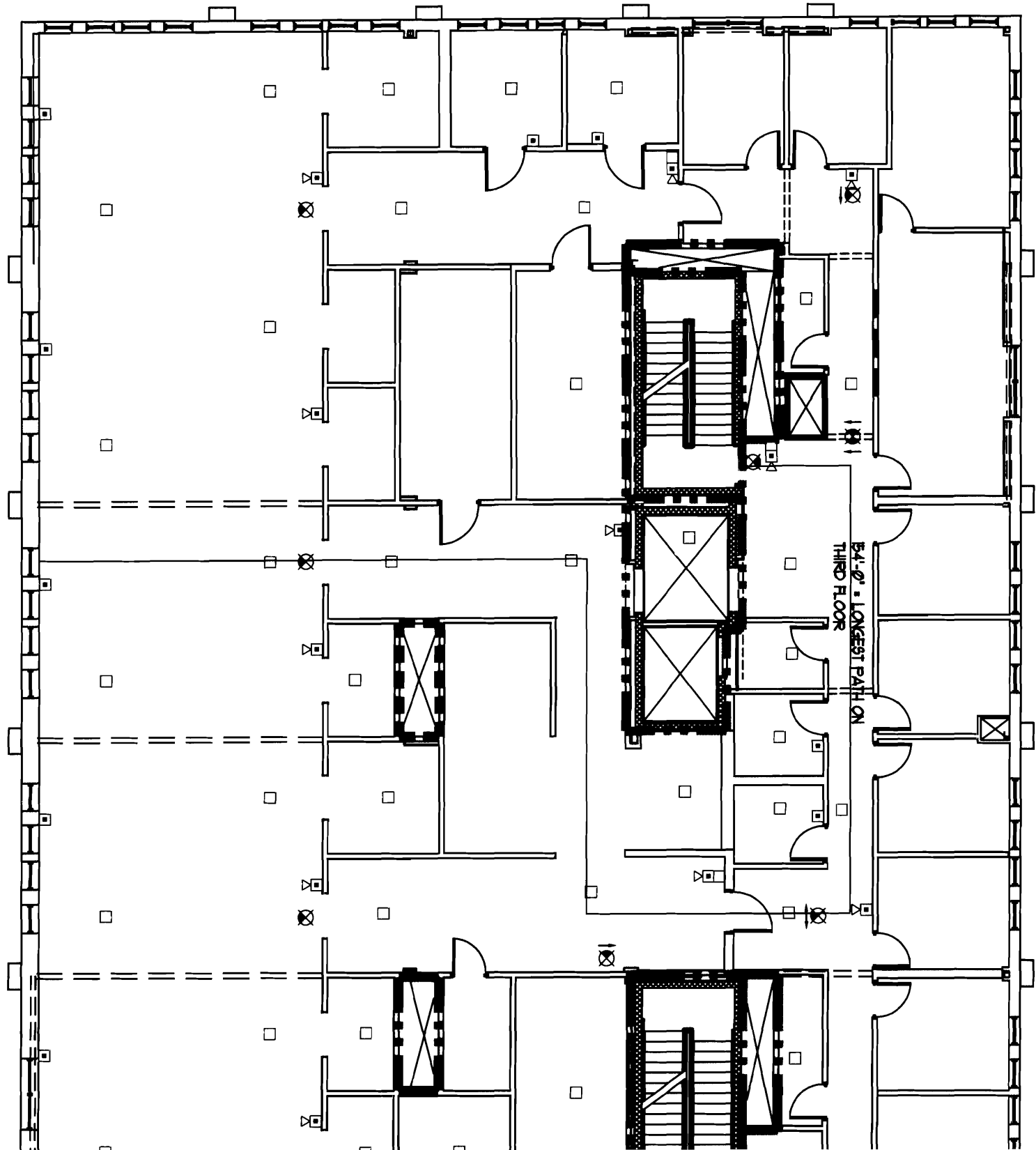
Offices	# designed for	10
Research Labs	# dePigned for	24
Conf. Room	20 sf gross / person	11
Total		45

TOTAL for Building **397**

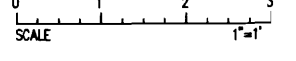
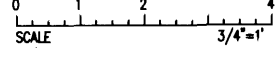
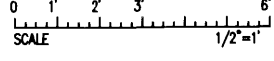
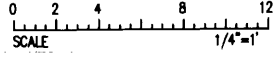
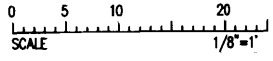
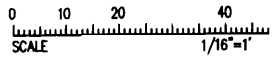
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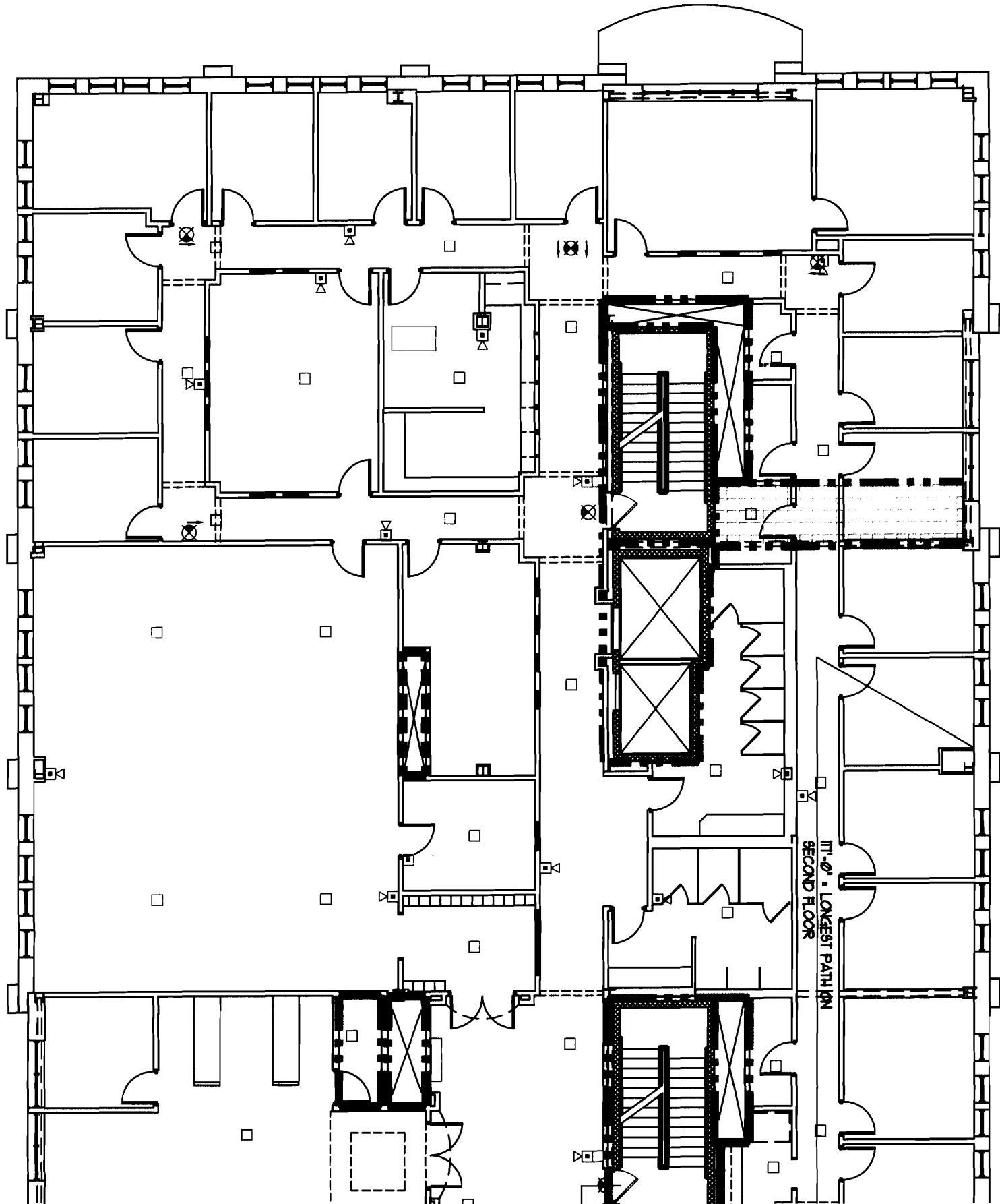
THIRD FLOOR



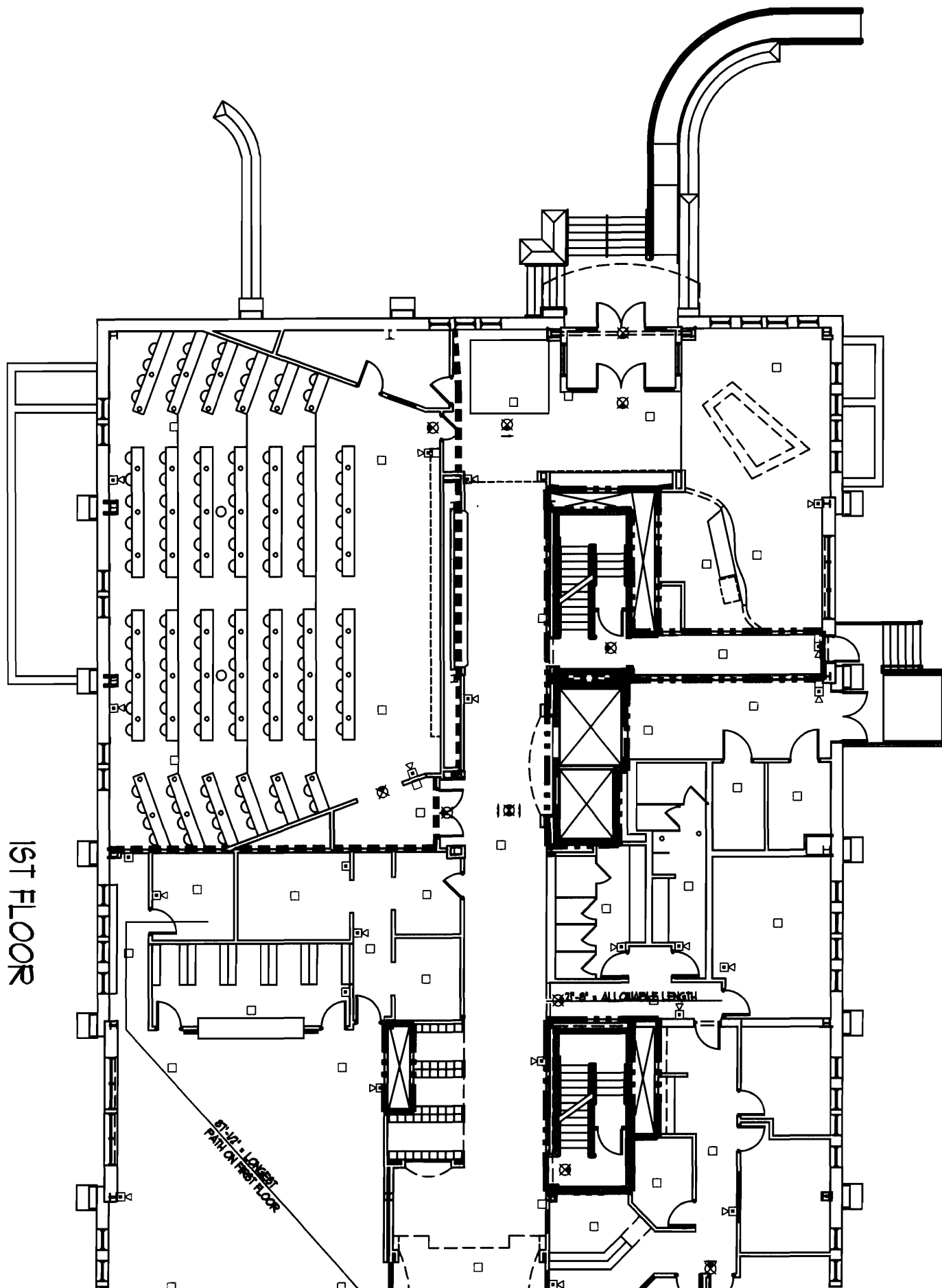
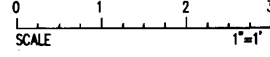
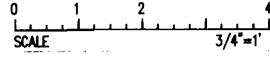
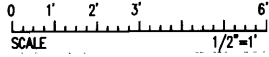
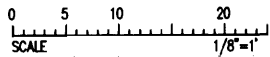
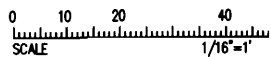
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SECOND FLOOR



IF THIS SHEET IS NOT 24 X 36 IT IS A REDUCED SCALE PRINT - SCALE ACCORDINGLY



1ST FLOOR