

PERMIT ISSUED

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

Permit No: 02-0367
 Issue Date: MAY 16 2002
 CBL: 114A A001001

Location of Construction: 96 Falmouth St	Owner Name: University Of Maine	Owner Address: 107 Maine Ave CITY OF PORTLAND	Phone: 780-4160
Business Name:	Contractor Name: Pizzagalli	Contractor Address: 100 Foden Road West, Suite 300 So. P	Phone: 2078742323
Lessee/Buyer's Name:	Phone:	Permit Type: Additions - Commercial	Zone: R-5

Past Use: Parking Lot	Proposed Use: Academic Research Building	Permit Fee: \$42,184.00	Cost of Work: \$6,022,549.00	CEO District: 2
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Proposed Project Description: Construct New Research Building / Biosciences Institute	FIRE DEPT: <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Denied	INSPECTION: Use Group: 2B Type: B 5/15/05 Signature: [Signature]
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Signature: [Signature]	Signature: [Signature]
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: gad	Date Applied For: 04/16/2002	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 <input type="checkbox"/> Wetland <input type="checkbox"/> Flood Zone <input type="checkbox"/> Subdivision <input checked="" type="checkbox"/> Site Plan Maj <input type="checkbox"/> Minor <input type="checkbox"/> MM <input type="checkbox"/> Date: 4/17/02	Zoning Appeal <input type="checkbox"/> Variance <input type="checkbox"/> Miscellaneous <input checked="" type="checkbox"/> Conditional Use <input type="checkbox"/> Interpretation <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Denied Date: [Signature]	Historic Preservation <input checked="" type="checkbox"/> Not in District or Landmark <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: [Signature]
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Handwritten notes: USM NOT EXEMPT FROM STREETS PLANNING, Panel 13 Zoned, PLANNING BO-INSTITUTIONAL EXPANSION, ALSO P.B. PARK JOINT USE APPROVED

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

BUILDING PERMIT INSPECTION PROCEDURES

Please call 874-8703 or 874-8693 to schedule your inspections as agreed upon

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

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

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

~~12/11/01~~ Pre-construction Meeting: Must be scheduled with your inspection team upon receipt of this permit. Jay Reynolds, Development Review Coordinator at 874-8632 must also be contacted at this time, before any site work begins on any project other than single family additions or alterations.

- ~~12/11/01~~ other permit Footing/Building Location Inspection: Prior to pouring concrete
- ~~12/11/01~~ other permit Re-bar Schedule Inspection: Prior to pouring concrete
- ~~12/11/01~~ other permit Foundation Inspection: Prior to placing ANY backfill
- ~~12/11/01~~ other permit Framing/Rough Plumbing/Electrical: Prior to any insulating or drywalling
- ~~12/11/01~~ Final/Certificate of Occupancy: Prior to any occupancy of the structure or use. NOTE: There is a \$75.00 fee per inspection at this point.

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

~~12/11/01~~ If any of the inspections do not occur, the project cannot go on to the next phase, REGARDLESS OF THE NOTICE OR CIRCUMSTANCES.

~~12/11/01~~ CERTIFICATE OF OCCUPANCIES MUST BE ISSUED AND PAID FOR, BEFORE THE SPACE MAY BE OCCUPIED

Brian A. Thomas
Signature of applicant/designee

5/20/01
Date

[Signature]
Signature of Inspections Official

5/20/01
Date

CBL: 114A A007 Building Permit #: 020367

Application ID Number: 2-0367

Department: Zoning

Status: Approved with Conditions

Reviewer: Marge Schmuckal

Comments: 96 Falmouth St

Approval Date: 04/17/2002

Issue Date: 04/17/2002

Off to Judge: Marge Schmuckal Date: 04/17/2002

This permit is being approved on the basis of plans submitted. Any deviations shall require a separate approval before starting that work.

Separate permits shall be required for any new signage. The new signage would be subject to site plan review standards.

Create Date: 04/16/2002 By: gad Update Date: 04/17/2002 By: mes

PERMIT ISSUED

City of Portland, Maine - Building or Use Permit Application

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

Permit No: 02-0376	Issue Date: APR 18 2002	CBL: 114A A001001
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Location of Construction: 96 Falmouth St	Owner Name: University Of Maine	Owner Address: 107 Maine Ave	Phone:
Business Name:	Contractor Name: Pizzagalli	Contractor Address: 100 Foden Road West, Suite 300 So. P	Phone: 2078742323
Lessee/Buyer's Name	Phone:	Permit Type: Demolitions	Zone:

CITY OF PORTLAND

Past Use: Science Building	Proposed Use: Bio science research	Permit Fee:	Cost of Work: \$0.00	CEO District: 2
Proposed Project Description: FOUNDATION ONLY for Planning Board approved Addition		FIRE DEPT: <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Denied	INSPECTION: Use Group: N/A Type: N/A	

Signature: *[Handwritten Signature]* 4/19/02
 Signature: *[Handwritten Signature]*

PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.)

Action: Approved Approved w/Conditions Denied

Signature: _____ Date: _____

Permit Taken By: mjn	Date Applied For: 04/18/2002	Zoning Approval
-------------------------	---------------------------------	------------------------

1. This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules. 2. Building permits do not include plumbing, septic or electrical work. 3. Building permits are void if work is not started within six (6) months of the date of issuance. False information may invalidate a building permit and stop all work..	Special Zone or Reviews <input type="checkbox"/> Shoreland <input type="checkbox"/> Wetland <input type="checkbox"/> Flood Zone <input type="checkbox"/> Subdivision <input type="checkbox"/> Site Plan Maj <input type="checkbox"/> Minor <input type="checkbox"/> MM <input type="checkbox"/> Date: _____	Zoning Appeal <input type="checkbox"/> Variance <input type="checkbox"/> Miscellaneous <input type="checkbox"/> Conditional Use <input type="checkbox"/> Interpretation <input type="checkbox"/> Approved <input type="checkbox"/> Denied Date: _____	Historic Preservation <input type="checkbox"/> Not in District or Landmark <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: _____
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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

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK CITY OF PORTLAND

Please Read
Application And
Notes, If Any,
Attached

BUILDING INSPECTION

PERMIT

Permit Number: 020376

I hereby certify that University Of Maine/Pizzaga
has permission to FOUNDATION ONLY for Planning Board approval Addition
96 Falmouth St 114A A001001

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

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

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

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

OTHER REQUIRED APPROVALS

Dept. _____
City Dept. _____
Zoning Board _____
Per _____
Department Name _____

[Signature]
Director - Building & Inspection Services
4/19/02

PENALTY FOR REMOVING THIS CARD

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

2000-0224

Application I. D. Number

12/26/2000

Application Date

USM Bio-Science Building Addition

Project Name/Description

University of Southern Maine

Applicant

96 Falmouth Street, Portland, ME 04101

Applicant's Mailing Address

Consultant/Agent

Applicant Ph: 207-780-4160

Applicant Fax: 207-780-4538

Applicant or Agent Daytime Telephone, Fax

96 - 96 Falmouth Street, Portland, Maine 04101

Address of Proposed Site

114A A001

Assessor's Reference: Chart-Block-Lot

Approval Conditions of Planning

- 1 That no certificate of occupancy be issued for the Biosciences Research addition until the applicant receives Planning Board review and approval for the proposed parking garage.

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

Fire Copy

2000-0224

Application I. D. Number

12/26/2000

Application Date

USM Bio-Science Building Addition

Project Name/Description

University of Southern Maine

Applicant

96 Falmouth Street, Portland, ME 04101

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Address of Proposed Site

114A A001

Consultant/Agent

Applicant Ph: 207-780-4160

Applicant Fax: 207-780-4538

Applicant or Agent Daytime Telephone, Fax

Assessor's Reference: Chart-Block-Lot

Proposed Development (check all that apply): New Building Building Addition Change Of Use Residential Office Retail
 Manufacturing Warehouse/Distribution Parking Lot Other (specify) Bio-Science Building Addition

57,000sf

26.4 acres

Proposed Building square Feet or # of Units

Acreeage of Site

Zoning

Check Review Required:

- | | | | |
|---|---|--|--|
| <input type="checkbox"/> Site Plan
(major/minor) | <input type="checkbox"/> Subdivision
of lots _____ | <input type="checkbox"/> PAD Review | <input type="checkbox"/> 14-403 Streets Review |
| <input type="checkbox"/> Flood Hazard | <input type="checkbox"/> Shoreland | <input type="checkbox"/> Historic Preservation | <input type="checkbox"/> DEP Local Certification |
| <input type="checkbox"/> Zoning Conditional
Use (ZBA/PB) | <input type="checkbox"/> Zoning Variance | <input type="checkbox"/> Other _____ | |

Fees Paid: Site Plan \$500.00 Subdivision _____ Engineer Review \$2,234.50 Date: 02/20/2002

Fire Approval Status:

Reviewer Lt.Mc Dougall

- Approved Approved w/Conditions
See Attached Denied

Approval Date 01/02/2001 Approval Expiration _____ Extension to _____ Additional Sheets
Attached

Condition Compliance Lt.Mc Dougall 01/02/2001
signature date

Performance Guarantee Required* Not Required

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

<input checked="" type="checkbox"/> Performance Guarantee Accepted	<u>03/22/2002</u> date	<u>\$316,400.00</u> amount	_____ expiration date
<input type="checkbox"/> Inspection Fee Paid	_____ date	_____ amount	
<input type="checkbox"/> Building Permit Issued	_____ date		
<input type="checkbox"/> Performance Guarantee Reduced	_____ date	_____ remaining balance	_____ signature
<input type="checkbox"/> Temporary Certificate of Occupancy	_____ date	<input type="checkbox"/> Conditions (See Attached)	_____ expiration date
<input type="checkbox"/> Final Inspection	_____ date	_____ signature	
<input type="checkbox"/> Certificate Of Occupancy	_____ date		
<input type="checkbox"/> Performance Guarantee Released	_____ date	_____ signature	
<input type="checkbox"/> Defect Guarantee Submitted	_____ submitted date	_____ amount	_____ expiration date

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

2000-0224

Application I. D. Number

12/26/2000

Application Date

USM Bio-Science Building Addition

Project Name/Description

University of Southern Maine

Applicant

96 Falmouth Street, Portland, ME 04101

Applicant's Mailing Address

96 - 96 Falmouth Street, Portland, Maine 04101

Address of Proposed Site

114A A001

Assessor's Reference: Chart-Block-Lot

Consultant/Agent

Applicant Ph: 207-780-4160

Applicant Fax: 207-780-4538

Applicant or Agent Daytime Telephone, Fax

Proposed Development (check all that apply): New Building Building Addition Change Of Use Residential Office Retail

Manufacturing Warehouse/Distribution Parking Lot

Other (specify) **Bio-Science Building Addition**

57,000sf

26.4 acres

Proposed Building square Feet or # of Units

Acreage of Site

Zoning

Check Review Required:

Site Plan (major/minor) Subdivision # of lots PAD Review 14-403 Streets Review

Flood Hazard Shoreland Historic Preservation DEP Local Certification

Zoning Conditional Use (ZBA/PB) Zoning Variance Other

Fees Paid: Site Plan \$500.00 Subdivision _____ Engineer Review \$2,234.50 Date: 02/20/2002

Engineering Approval Status:

Reviewer _____

Approved Approved w/Conditions See Attached Denied

Approval Date _____ Approval Expiration _____ Extension to _____ Additional Sheets Attached

Condition Compliance _____ signature _____ date _____

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<input checked="" type="checkbox"/> Performance Guarantee Accepted	03/22/2002	\$316,400.00	
	date	amount	expiration date
<input type="checkbox"/> Inspection Fee Paid	_____	_____	
	date	amount	
<input type="checkbox"/> Building Permit Issued	_____		
	date		
<input type="checkbox"/> Performance Guarantee Reduced	_____	_____	_____
	date	remaining balance	signature
<input type="checkbox"/> Temporary Certificate of Occupancy	_____	<input type="checkbox"/> Conditions (See Attached)	_____
	date		expiration date
<input type="checkbox"/> Final Inspection	_____	_____	
	date	signature	
<input type="checkbox"/> Certificate Of Occupancy	_____	_____	
	date		
<input type="checkbox"/> Performance Guarantee Released	_____	_____	_____
	date	signature	
<input type="checkbox"/> Defect Guarantee Submitted	_____	_____	_____
	submitted date	amount	expiration date

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

2000-0224

Application I. D. Number

12/26/2000

Application Date

USM Bio-Science Building Addition

Project Name/Description

University of Southern Maine

Applicant

96 Falmouth Street, Portland, ME 04101

Applicant's Mailing Address

96 - 96 Falmouth Street, Portland, Maine 04101

Address of Proposed Site

114A A001

Assessor's Reference: Chart-Block-Lot

Consultant/Agent

Applicant Ph: 207-780-4160

Applicant Fax: 207-780-4538

Applicant or Agent Daytime Telephone, Fax

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New Building Building Addition Change Of Use Residential Office Retail

Manufacturing Warehouse/Distribution Parking Lot

Other (specify) Bio-Science Building Addition

57,000sf

26.4 acres

Proposed Building square Feet or # of Units

Acresage of Site

Zoning

Check Review Required:

- | | | | |
|---|---|--|--|
| <input type="checkbox"/> Site Plan
(major/minor) | <input type="checkbox"/> Subdivision
of lots _____ | <input type="checkbox"/> PAD Review | <input type="checkbox"/> 14-403 Streets Review |
| <input type="checkbox"/> Flood Hazard | <input type="checkbox"/> Shoreland | <input type="checkbox"/> Historic Preservation | <input type="checkbox"/> DEP Local Certification |
| <input type="checkbox"/> Zoning Conditional
Use (ZBA/PB) | <input type="checkbox"/> Zoning Variance | | <input type="checkbox"/> Other _____ |

Fees Paid: Site Plan \$500.00 Subdivision _____ Engineer Review \$2,234.50 Date: 02/20/2002

DRC Approval Status:

Reviewer Jay Reynolds

- Approved Approved w/Conditions
See Attached Denied

Approval Date 11/27/2001 Approval Expiration 11/27/2002 Extension to _____ Additional Sheets
Attached

Condition Compliance Jay Reynolds 03/22/2002
signature date

Performance Guarantee Required* Not Required

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<input checked="" type="checkbox"/> Performance Guarantee Accepted	<u>03/22/2002</u> date	<u>\$316,400.00</u> amount	_____ expiration date
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<input type="checkbox"/> Performance Guarantee Released	_____ date	_____ signature	
<input type="checkbox"/> Defect Guarantee Submitted	_____ submitted date	_____ amount	_____ expiration date

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

2000-0224

Application I. D. Number

12/28/2000

Application Date

USM Bio-Science Building Addition

Project Name/Description

96 - 96 Falmouth Street, Portland, Maine 04101

Address of Proposed Site

114A A001

Assessor's Reference: Chart-Block-Lot

University of Southern Maine

Applicant

96 Falmouth Street, Portland, ME 04101

Applicant's Mailing Address

Consultant/Agent

Applicant Ph: 207-780-4160

Applicant Fax: 207-780-4538

Applicant or Agent Daytime Telephone, Fax

Proposed Development (check all that apply):

New Building Building Addition Change Of Use Residential Office Retail

Manufacturing Warehouse/Distribution Parking Lot

Other (specify) Bio-Science Building Addition

57,000sf

26.4 acres

Proposed Building square Feet or # of Units

Acreage of Site

Zoning

Check Review Required:

Site Plan
(major/minor)

Subdivision
of lots _____

PAD Review

14-403 Streets Review

Flood Hazard

Shoreland

Historic Preservation

DEP Local Certification

Zoning Conditional
Use (ZBA/PB)

Zoning Variance

Other _____

Fees Paid: Site Plan

\$500.00

Subdivision

Engineer Review

\$2,234.50

Date: 02/20/2002

Planning Approval Status:

Reviewer Sarah Hopkins

Approved

Approved w/Conditions
See Attached

Denied

Approval Date 11/27/2001

Approval Expiration 11/27/2002

Extension to _____

Additional Sheets
Attached

OK to Issue Building Permit

Sarah Hopkins
signature

03/22/2002
date

Performance Guarantee

Required*

Not Required

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

Performance Guarantee Accepted

03/22/2002

\$316,400.00

date

amount

expiration date

Inspection Fee Paid

date

amount

Building Permit Issued

date

Performance Guarantee Reduced

date

remaining balance

signature

Temporary Certificate of Occupancy

date

Conditions (See Attached)

expiration date

Final Inspection

date

signature

Certificate Of Occupancy

date

Performance Guarantee Released

date

signature

Defect Guarantee Submitted

submitted date

amount

expiration date

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

2000-0224
Application I. D. Number
12/26/2000
Application Date
USM Bio-Science Building Addition
Project Name/Description

University of Southern Maine
Applicant
96 Falmouth Street, Portland, ME 04101
Applicant's Mailing Address

Consultant/Agent
Applicant Ph: **207-780-4160** Applicant Fax: **207-780-4538**
Applicant or Agent Daytime Telephone, Fax

96 - 96 Falmouth Street, Portland, Maine 04101
Address of Proposed Site
114A A001
Assessor's Reference: Chart-Block-Lot

Proposed Development (check all that apply): New Building Building Addition Change Of Use Residential Office Retail
 Manufacturing Warehouse/Distribution Parking Lot Other (specify) **Bio-Science Building Addition**

57,000sf **26.4 acres**
Proposed Building square Feet or # of Units Acreage of Site Zoning

Check Review Required:

- | | | | |
|---|---|--|--|
| <input type="checkbox"/> Site Plan
(major/minor) | <input type="checkbox"/> Subdivision
of lots _____ | <input type="checkbox"/> PAD Review | <input type="checkbox"/> 14-403 Streets Review |
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Fees Paid: Site Plan **\$500.00** Subdivision _____ Engineer Review **\$2,234.50** Date: **02/20/2002**

DRC Approval Status:

Reviewer **Jay Reynolds**

- Approved Approved w/Conditions
See Attached Denied

Approval Date **11/27/2001** Approval Expiration **11/27/2002** Extension to _____ Additional Sheets
Attached

Condition Compliance **Jay Reynolds** **03/22/2002**
signature date

Performance Guarantee Required* Not Required

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Applicant: University of ME Date: 4/17/02

Address: 96 Falmouth St C-B-L: 114A-A-001

CHECK-LIST AGAINST ZONING ORDINANCE

Date - Existing use - get PLANNING BOARD Approval on Institutional Use expansion

Zone Location - R-5

Interior or corner lot - construct BioScience Bldg

Proposed Use/Work -

Sevage Disposal - City

Lot Street Frontage - 50' - well over 50' shown

Front Yard - 20' min - 27' shown off of Falmouth St

Rear Yard - 20' min - 100' + shown to Bedford St

Side Yard - 14' req - 100' to Oakhurst; abuts exist Bldg

Projections - Rooftop Mechanicals - ok for 1A-430

Width of Lot -

Height - 35' max - Average grade just under 35' max - only 24' on main part

Lot Area - 54,644 sq ft given

Lot Coverage/ Impervious Surface - 40% max - ok per whole campus doesn't include Between Falmouth & Bedford Parking - Oakhurst & Brighton

Area per Family - N/A

Off-street Parking - Get Planning Board approval on joint use parking

Loading Bays - Lower level

Site Plan - yes

Shoreland Zoning/ Stream Protection - N/A

Flood Plains - Zone C - Panel B

December 22, 2000

Ms. Sarah Hopkins
City of Portland
389 Congress Street
Portland, ME 04101

**Subject: University of Southern Maine, Portland Campus
Campus Masterplan Study and Proposed Bioscience Institute Development
MeDEP Site Location Permit and Major Site Plan Application**

Dear Sarah:

The University of Southern Maine a unit of the University of Maine System has retained Orcutt Associates and DeLuca-Hoffman Associates, Inc. to prepare an update of the Campus Master Plan. As with all master plans, the long term goals are far reaching; therefore, the Master Plan presents a phased implementation schedule. The initial phases of the Master Plan includes the construction of the Bioscience Institute building adjacent to the existing Science Building on Falmouth Street, the Muskie School of Public Service (former Steego Building) at the intersection of Winslow and Bedford Streets, and a multi-story parking garage with community education facility adjacent to Bedford Street.

One of the most critical elements of the Master Plan process was the preparation of a detailed traffic and parking study for the USM Campus. The traffic study and its initial recommendations have been reviewed with Bill Bray, P.E., Director of Public Works. The Final Traffic and Parking Study is contained in Section 1, Attachment C of the enclosed permit application.

The Master Plan study has been provided to the City of Portland for informational purposes. The primary goal of the Master Plan is to share the long term development goals of the University with the City of Portland and the University.

As mentioned above, the initial phases of the USM Campus Master Plan indicates the construction of the Bioscience Institute building. Construction is scheduled to start in the spring of 2001. With respect to the traffic and parking study, Symmes, Maini & McKee Associates of Cambridge, Massachusetts prepared the traffic and building construction documents. USM is seeking site plan approval for the Bioscience Institute.

The current USM Portland Campus is not permitted through the MeDEP Site Location of Development Act; however, a state permit is required for the Portland Campus in association with the cumulative structure area constructed at the Campus since 1975. Therefore, the new Bioscience Institute project is being submitted for review by the City of Portland under its delegated review authority from the MeDEP for issuance of the Site Location of Development

Ms. Sarah Hopkins
December 22, 2000
Page 2

Permits, as well as, the City of Portland Major Site Plan Application. A detailed summary of the MeDEP permit thresholds is provided within Section 1 of the Permit Application.

In accordance with Article V, Site Plans of the City of Portland Land Use Ordinance, the following cross reference has been provided for the written statements in support of the Major Site Plan Application and the MeDEP Site Location Permit Application:

1. Description of proposed use – Section 1.
2. The total land area of the USM Portland Campus is approximately 26.4 acres. The overall University Campus is comprised of 36 individual parcels of land as indicated in Section 2. A summary of the total floor area and ground coverage associated with the proposed Bioscience Institute building is as follows:

Total building footprint area =	9,500 s.f.
Number of floors (excluding basement) =	6
Total building floor area =	57,000 s.f.

3. There are no new easements or burdens which will be placed on the USM Campus in conjunction with the proposed Bioscience Institute.
4. Types and estimated quantities of solid waste – Section 5.
5. Evidence of availability of offsite facilities:
Roadways and Parking – Section 1, Attachment C
Water Supply – Section 13
Wastewater Disposal – Section 14
6. Stormwater Report – Section 22.
7. Sequence of construction – Sections 1 and 24.
8. The following is a list of the project permit requirements and status:

<u>Permit</u>	<u>Review Agency</u>
City of Portland Major Site Plan	City of Portland
MeDEP Site Location of Development Act	Delegated review by City of Portland

These two permit applications are the context of the enclosed applications. There are no other site permit applications for this project from other State or Federal review agencies. Building permits will also be required for the project from the City of Portland and State Fire Marshall's office.

Ms. Sarah Hopkins
December 22, 2000
Page 3

9. Financial and technical capability – Sections 3 and 4, respectively.
10. Title, right and interest – Section 2.

The proposed Bioscience Institute building will be constructed entirely within the existing UMS Campus; therefore, no additional land is required to complete this project.

11. Unusual areas, wildlife and fisheries, or archaeological sites – Sections 19, 20 and 21, respectively.
12. Solid waste recycling – Section 5.

Enclosed, please find ten (10) copies of the City of Portland Site Review Pre-Application form, the MeDEP Site Location of Development Act Permit and City of Portland Major Site Plan Applications for the proposed Bioscience Institute at the USM Portland Campus.

The application fee for the project has been based upon the City of Portland Major Site Plan Application Fee in the amount of \$500.00. A check in this amount payable to the City of Portland is appended to this letter.

On behalf of the University of Southern Maine, our office looks forward to reviewing this project with you and the members of the Planning Board. Please do not hesitate to contact me with any questions you may have concerning this project.

Sincerely,

DeLUCA-HOFFMAN ASSOCIATES, INC.



Joseph A. Laverriere, P.E.
Senior Engineer

JAL/mb/JN2074/Hopkins12-19

Enclosures

c: David Early, P.E. – University of Southern Maine
Cynthia Orcutt – Orcutt Associates
Joseph Burke, P.E. - SMMA

**Site Review Pre-Application
Multi-Family/Attached Single Family Dwellings/Two-Family Dwelling
or Commercial Structures and Additions Thereto**

In the interest of processing your application in the quickest possible manner, please complete the Information below for Site Plan Review

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

University of Maine System

December 22, 2000

Applicant

107 Maine Avenue, Bangor, Maine 04401

Application Date

Bioscience Institute

Applicant's Mailing Address

Joseph A. Laverriere, DeLuca-Hoffman

Project Name/Description

USM Portland Campus - Falmouth St

Consultant/Agent

Associates, Inc.

Address Of Proposed Site

See attached sheet.

Tel.: (207) 286-8417

Assessor's Reference, Chart, Block, Lot#

Fax: (207) 286-3220
Applicant/Agent Daytime telephone and FAX

Proposed Development (Check all that apply) New Building Building Addition Change of Use Residential Office Retail
 Manufacturing Warehouse/Distribution Other (Specify) Academic research building

9,500 s.f. footprint-six story 26.4 +/-

Residential (R-5)

Proposed Building Square Footage and /or # of this building **Acres of Site**

Zoning

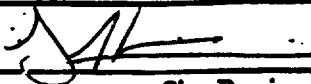
You must include the following with you application:

- 1) A Copy of Your Deed or Purchase and Sale Agreement**
- 2) 7 sets of Site Plan packages containing the information found in the attached sample plans and checklist.**

(Section 14-522 of the Zoning Ordinance outlines the process, copies are available for review at the counter, photocopies are \$ 0.25 per page)

I hereby certify that I am the Owner of record of the named property, or that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his/her authorized agent. I agree to conform to all applicable laws of this jurisdiction. In addition, if an approval for the proposed project or use 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 approval at any reasonable hour to enforce the provisions of the codes applicable to this approval.

Signature of applicant:



Date:

December 22, 2000

Site Review Fee: Major \$500.00 Minor 400.00

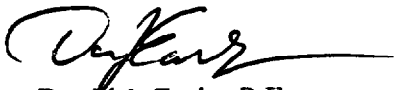
This application is for site review ONLY, a Building Permit application and associated fees will be required prior to construction.

Date: December 19, 2000

To: State and Municipal Site Officials

The University of Southern Maine, a unit of the University of Maine System is preparing plans for its new Bio-Science Institute and associated parking and site work at the University of Southern Maine campus in Portland, Maine. The University has retained DeLuca-Hoffman Associates, Inc. to assist in the preparation of applications associated with permitting approvals for the project. When necessary, DeLuca-Hoffman Associates, Inc. is authorized as its agent to represent the University in addressing questions on the plans or applicable applications for this project.

Sincerely,



David J. Early, P.E.
Executive Director

USM PROPERTY LIST

<u>Tax Map</u>	<u>Block</u>	<u>Lot</u>
51	E	1, 6, 7, 12, 14, 15, 16, 17, 18, 19, 22
114	A	4, 12
114	B	1, 2
114	D	5, 23
114A	A	1
114A	G	6, 9, 10
114A	H	5
115	B	2, 3, 4, 6, 7, 8, 9, 10, 11, 12, 13, 14, 19, 20

96 Falmouth Street
P.O. Box 9300
Portland, ME 04104-9300
(207) 780-4160
TTY (207) 780-5646
FAX (207) 780-4538

March 28, 2002

Mr. Mike Nugent
City of Portland
389 Congress Street
Portland, Maine 04101

Subject: USM Biosciences Research Addition

CBL: 114A-A-001

Dear Mike:

I am enclosing two copies of the BOCA code certification, accessibility certificate, building code certificate, project drawings, and project specifications for your review in preparation for issuing of a building permit to Pizzagalli Construction Company for the construction of the Biosciences Research Addition on the campus of the University of Southern Maine. Your contact for Pizzagalli is Brian Holmes at 874-2323.

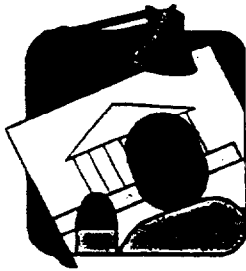
Give me a call at 780-4751 if you have any questions or need additional information.

Sincerely,



David N. Barbour
Director of Facilities Management.

Cc: B. Holmes
J. Hoffman



CITY OF PORTLAND MAINE

389 Congress St., Rm 315

Portland, ME 04101

Tel. - 207-874-8704

Fax - 207-874-8716

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

FROM DESIGNER: Gregory Downes, AIA

Symmes Maini & McKee Associates

DATE: March 27, 2002

Job Name: University of Southern Maine Biosciences Institute

Address of Construction: Falmouth Street, Portland, Maine

THE BOCA NATIONAL BUILDING CODE/1999 Fourteenth EDITION

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

Building Code and Year BOCA 1999 Use Group Classification(s) B

Type of Construction 2B Bldg. Height 42 feet Bldg. Sq. Footage 57,563

Seismic Zone Exposure Category C Group Class I, Aa=Av=.10, S=1.0, R=5.5, T=.53

Roof Snow Load Per Sq. Ft. 50 Dead Load Per Sq. Ft. 120 (Concrete Frame)

Basic Wind Speed (mph) 90 Effective Velocity Pressure Per Sq. Ft. 21 PSF Min.

Floor Live Load Per Sq. Ft. 100

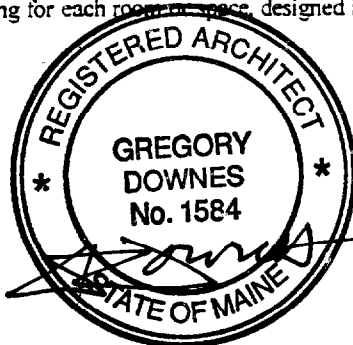
Structure has full sprinkler system? Yes No Alarm System? Yes No
Sprinkler & Alarm systems must be installed according to BOCA and NFPA Standards with approval from the Portland Fire Department.

Is structure being considered unlimited area building: Yes No

If mixed use, what subsection of 313 is being considered N/A

List Occupant loading for each room or space designed into this Project. See Drawing A0.1

PSH 6/07/2K



(Designers Stamp & Signature)



City of Portland, Maine

389 Congress St., Rm 315
Portland, ME 04101

ACCESSIBILITY CERTIFICATE

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

FROM: Gregory Downes, AIA

RE: Certificate of Design, HANDICAP ACCESSIBILITY

DATE: March 27, 2002

These plans and/or specifications covering construction work on:

University of Southern Maine Biosciences Institute, Portland, Maine

Have been designed and drawn up by the undersigned, a Maine registered engineer/architect according to State Regulations as adopted by the State of Maine on Handicapped Accessibility.

(SEAL)



Signature *Gregory Downes*

Title Principal

Firm Symmes Maini & McKee Associates

Address 1000 Massachusetts Avenue
Cambridge, MA 02138



**CITY OF PORTLAND
BUILDING CODE CERTIFICATE
389 Congress St., Rm 315
Portland, ME 04101**

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

FROM: Gregory Downes, AIA

RE: Certificate of Design

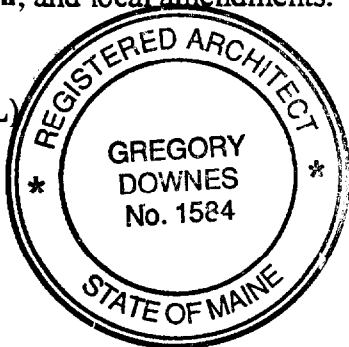
DATE: March 27, 2002

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University of Southern Maine Biosciences Institute, Portland, Maine

Have been designed and drawn up by the undersigned, a Maine registered architect/engineer according to the **BOCA National Building Code/1999 Fourteenth Edition**, and local amendments.

(SEAL)



Signature

Gregory Downes

Title

Principal

Firm

Symmes Maini & McKee Associates

Address

1000 Massachusetts Avenue, Cambridge, MA 02138

As per Maine State Law:

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

1703.2.1 Research reports: Supporting data, where necessary to assist in the approval of all materials or assemblies not specifically provided for in this code, shall consist of valid research reports from approved sources.

1703.3 Evaluation and follow-up inspection services: Prior to the approval of a closed prefabricated assembly, the permit applicant shall submit an evaluation report of each prefabricated assembly. The report shall indicate the complete details of the assembly, including a description of the assembly and the assembly's components, the basis upon which the assembly is being evaluated, test results and similar information, and other data as necessary for the code official to determine conformance to this code.

1703.3.1 Evaluation service: The code official shall review evaluation reports from approved sources for adequacy and conformance to the code.

1703.3.2 Follow-up inspection: The owner shall provide for special inspections of fabricated items in accordance with Section 1705.2.

1703.3.3 Test and inspection records: Copies of all necessary test and inspection records shall be filed with the code official.

1703.4 Identification: All required product identification shall be legible and shall be applied to the product or product packaging, as applicable, in a manner that will allow product verification at the time of a field inspection conducted by the code official or special inspector, as applicable, prior to the issuance of a certificate of occupancy by the code official.

For products where the required identification is on the product packaging, the part of the packaging containing the product identification shall be kept at the building site where it can be verified at the time of field inspection. For products where the required identification is concealed from view after the product is installed, the code official shall be notified before the product identification is concealed and the product identification shall not be concealed before approval

SECTION 1704.0 APPROVALS

1704.1 Written approval: Any material, appliance, equipment, system or method of construction meeting the requirements of this code shall be approved in writing within a reasonable time after satisfactory completion of all the required tests and submission of required test reports.

1704.2 Approved record: For any material, appliance, equipment, system or method of construction that has been approved, a record of such approval, including all of the conditions and limitations of the approval, shall be kept on file in the code official's office and shall be open to public inspection at all appropriate times.

1704.3 Labeling: Products and materials required to be labeled shall be labeled in accordance with the procedures set forth in Sections 1704.3.1 through 1704.3.3.

1704.3.1 Testing: An approved agency shall test a representative sample of the product or material being labeled to the relevant standard or standards. The approved agency shall maintain a record of all of the tests performed. The record

shall provide sufficient detail to verify compliance with the test standard.

1704.3.2 Inspection and identification: The approved agency shall periodically perform an inspection, which shall be in-plant if necessary, of the product or material that is to be labeled. The inspection shall verify that the labeled product or material is representative of the product or material tested.

1704.3.2.1 Independent: The agency to be approved shall be objective and competent. The agency shall also disclose all possible conflicts of interest so that objectivity can be confirmed.

1704.3.2.2 Equipment: An approved agency shall have adequate equipment to perform all required tests. The equipment shall be periodically calibrated.

1704.3.2.3 Personnel: An approved agency shall employ experienced personnel educated in conducting, supervising and evaluating tests.

1704.3.3 Label information: The label shall contain the manufacturer's or distributor's identification, model number, serial number, or definitive information describing the product or material's performance characteristics and approved agency's identification.

1704.4 Heretofore-approved materials: The use of any material already fabricated or of any construction already erected, which conformed to requirements or approvals heretofore in effect, shall be permitted to continue, if not detrimental to life, health or safety of the public.

SECTION 1705.0 SPECIAL INSPECTIONS

1705.1 General: The permit applicant shall provide special inspections where application is made for construction as described in this section. The special inspectors shall be provided by the permit applicant and shall be qualified and approved for the inspection of the work described herein.

Exceptions

1. Special inspections are not required for work of a minor nature or where warranted by conditions in the jurisdiction.
2. Special inspections are not required for building components unless the design involves the practice of professional engineering or architecture as defined by applicable state statutes and regulations governing the professional registration and certification of engineers or architects.
3. Special inspections are not required for occupancies in Use Group R-3 and occupancies in Use Group U that are accessory to a residential occupancy including, but not limited to, those listed in Table 312.1.

1705.1.1 Building permit requirement: The permit applicant shall submit a statement of special inspections prepared by the registered design professional in responsible charge in accordance with Section 114.2.1 as a condition for permit issuance. This statement shall include a complete list of materials and work requiring special inspection by this section, the inspections to be performed and a list of the

be tested by ultrasonic testing or other approved methods at a percentage rate established by the *registered design professional* responsible for the structural design. All partial penetration column splice welds designed for axial or flexural tension from seismic forces shall be tested.

1705.3.3.2.3 Base metal testing: Base metal having a thickness more than 1½ inches (38 mm) and subject to through-thickness weld shrinkage strains shall be ultrasonically tested for discontinuities behind and adjacent to the welds after joint welding. Any material discontinuities shall be evaluated based on the criteria established in the *construction documents* by the *registered design professional* responsible for the structural design.

1705.3.3.3 Details: The special inspector shall perform an *inspection* of the steel frame to verify compliance with the details shown on the approved *construction documents*, such as bracing, stiffening, member locations and proper application of joint details at each connection.

1705.4 Concrete construction: The *special inspections* for concrete elements of buildings and structures and concreting operations shall be as required by Sections 1705.4.1 through 1705.4.7.

Exception: *Special inspections* shall not be required for:

1. Concrete footings of buildings three stories or less in height which are fully supported on earth or rock.
2. Nonstructural concrete slabs supported directly on the ground, including prestressed slabs on grade, where the effective prestress in the concrete is less than 150 psi (0.11 kg/mm²).
3. Plain concrete foundation walls constructed in accordance with Table 1812.3.2.
4. Concrete patios, driveways and sidewalks, on grade.

1705.4.1 Materials: In the absence of sufficient data or documentation providing evidence of conformance to quality standards for materials in Chapter 3 of ACI 318 listed in Chapter 35, the code official shall require testing of materials in accordance with the appropriate standards and criteria for the material in Chapter 3 of ACI 318 listed in Chapter 35. Weldability of reinforcement, except that which conforms to ASTM A706 listed in Chapter 35, shall be determined in accordance with the requirements of Section 1906.5.2.

1705.4.2 Installation of reinforcing and prestressing steel: The location and installation details of reinforcing and prestressing steel shall be *inspected* for compliance with the approved *construction documents* and ACI 318 (such as Sections 7.4, 7.5, 7.6 and 7.7) listed in Chapter 35. Welding of reinforcing of the structural seismic-resisting system shall be inspected for buildings assigned to Seismic Performance Category C, D or E, in accordance with Section 1610.1.7.

1705.4.3 Formwork: Forms for concrete, if used, shall be *inspected* for compliance with Section 6.1 of ACI 318 listed in Chapter 35, and with any additional design requirements indicated on the approved *construction documents*. *Inspection* of form removal and reshoring shall be conducted to

verify compliance with Section 6.2 of ACI 318 listed in Chapter 35.

1705.4.4 Concreting operations: During placing and curing of concrete, the *special inspections* listed in Table 1705.4.4 shall be performed.

Table 1705.4.4
REQUIRED INSPECTIONS DURING CONCRETING

Required inspection	Reference ^a for criteria
1. Evaluation of concrete strength, except as exempted by Section 1908.3.1(3) of this code.	ACI 318 Section 5.6
2. Inspection for use of proper mix proportions and proper mix techniques.	ACI 318 Chapter 4, Sections 5.2, 5.3, 5.4 and 5.8
3. Inspection during concrete placement, for proper application techniques.	ACI 318 Sections 5.9 and 5.10
4. Inspection for maintenance of specified curing temperatures and techniques.	ACI 318 Sections 5.11, 5.12 and 5.13

Note a. ACI 318 listed in Chapter 35.

1705.4.5 Inspection during prestressing: *Inspection* during the application of prestressing forces shall be performed to determine compliance with Section 18.18 of ACI 318 listed in Chapter 35.

1705.4.5.1 Inspection during grouting: In buildings assigned to Seismic Performance Category C, D or E, in accordance with Section 1610.1.7, inspection during the grouting of bonded prestressing tendons in the structural seismic-resisting system shall be performed.

1705.4.6 Manufacture of precast concrete: The manufacture of precast concrete, as required by Section 1705.2, shall be subject to a quality control program administered by an *approved agency*.

1705.4.7 Erection of precast concrete: Erection of precast concrete shall be *inspected* for compliance with the approved plans and erection drawings.

1705.5 Masonry construction: The *special inspections* listed in Table 1705.5 shall be required for masonry construction where masonry is designed in accordance with ACI 530/ASCE 5/TMS 402 listed in Chapter 35.

1705.6 Wood construction: *Special inspections* of the fabrication process of wood structural elements and assemblies shall be in accordance with Section 1705.2. *Special inspection* is required for nailing, bolting, structural gluing or other fastening of the structural seismic-resisting system of buildings assigned to Seismic Performance Category C, D or E, in accordance with Section 1610.1.7.

1705.7 Prepared fill: The *special inspections* for prepared fill shall be as required by Sections 1705.7.1 through 1705.7.3. The approved report, required by Section 1804.1, shall be used to determine compliance.

1705.7.1 Site preparation: Prior to placement of the prepared fill, the special inspector shall determine that the site has been prepared in accordance with the approved report.

1705.12.3.1 Floor, roof and wall assemblies: The thickness of the sprayed fire-resistive material applied to the underside of floor and roof assemblies and to wall assemblies shall be determined by taking the average of four measurements in each 144-square-inch (0.093 m²) sample area, having a minimum width of 6 inches (152 mm), for each 1,000 square feet (93 m²) or part thereof of the sprayed area in each story.

1705.12.3.2 Structural framing members: The thickness of the sprayed fire-resistive material applied to structural framing members shall be determined by taking nine measurements at a single cross section for beams and girders, seven measurements at a single cross section for joists and trusses, and 12 measurements at a single cross section for columns. Thickness measurements shall be performed on 25 percent of each type of structural framing members in each story.

1705.12.4 Density: The density of the cured sprayed fire-resistive material applied to structure elements shall not be less than the density specified in the approved fire-resistance design or 15 pounds per cubic foot (240 kg/m³), whichever is greater. Density of the sprayed fire-resistive material shall be determined by an approved method using the sampling rates specified in Sections 1705.12.3.1 and 1705.12.3.2.

1705.12.5 Bond strength: The cohesive/adhesive bond strength of the cured sprayed fire-resistive material applied to structure elements shall not be less than the cohesive/adhesive bond strength specified in the approved fire-resistance design or 150 pounds per square foot (732 kg/m²), whichever is greater. The cohesive/adhesive bond strength shall be determined by an approved method using the samples of the sprayed fire-resistive material selected in accordance with Sections 1705.12.5.1 and 1705.12.5.2.

1705.12.5.1 Floor, roof and wall assemblies: The samples used for determining the cohesive/adhesive bond strength of the sprayed fire-resistive materials shall be taken from each floor, roof and wall assembly at the rate of one sample for every 10,000 square feet (929 m²) or part thereof of the sprayed area in each story.

1705.12.5.2 Structural framing members: The samples used for determining the cohesive/adhesive bond strength of the sprayed fire-resistive materials shall be taken from beams, girders, joists, trusses, and columns at the rate of one sample for each type of structural framing member for each 10,000 square feet (929 m²) of floor area of part thereof in each story.

1705.13 Exterior insulation and finish systems (EIFS): Special inspections shall be based upon the information provided in the manufacturer's installation instructions and the construction documents. The manufacturer's installation instructions shall include criteria for: the conditions of the substrate; foam plastic material and application; mesh application; base coat application including thickness, ambient conditions and cure; sealant requirements; finish coat application; details for joints and flashing at windows, doors, joints in the system, eaves, corners, and penetrations; and any other criteria necessary for the proper installation of the EIFS.

1705.14 Special cases: *Special inspections* shall be required for proposed work which is, in the opinion of the code official, unusual in its nature, such as:

1. Construction of materials and systems which are alternatives to materials and systems prescribed by this code.
2. Unusual design applications of materials described in this code.
3. Materials and systems required to be installed in accordance with additional manufacturer's instructions that prescribe requirements not contained in this code or in standards referenced by this code.

SECTION 1706.0 DESIGN STRENGTHS OF MATERIALS

1706.1 Conformance to standards: The design strengths and permissible stresses of any structural material that is identified by a manufacturer's designation as to manufacture and grade by mill tests, or the strength and stress grade is otherwise confirmed to the satisfaction of the code official, shall conform to the specifications and methods of design of accepted engineering practice or the *approved rules* in the absence of applicable standards.

1706.2 New materials: For materials which are not specifically provided for in this code, the design strengths and permissible stresses shall be established by tests as provided for in Sections 1708.0 and 1709.0.

SECTION 1707.0 ALTERNATIVE TEST PROCEDURE

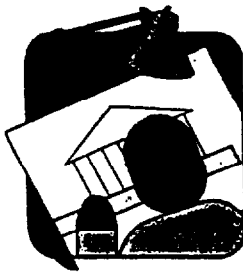
1707.1 General: In the absence of *approved rules* or other approved standards, the code official shall make, or cause to be made, the necessary tests and investigations; or the code official shall accept duly authenticated reports from *approved agencies* in respect to the quality and manner of use of new materials or assemblies as provided for in Section 106.0. The cost of all tests and other investigations required under the provisions of this code shall be borne by the permit applicant.

SECTION 1708.0 TEST SAFE LOAD

1708.1 Where required: Where proposed construction is not capable of being designed by approved engineering analysis, or where proposed construction design method does not comply with the applicable material design standard listed in Chapter 35, the system of construction or the structural unit and the connections shall be subjected to the tests prescribed in Section 1710.0. The code official shall accept certified reports of such tests conducted by an *approved testing agency*, provided that such tests meet the requirements of this code and approved procedures.

SECTION 1709.0 IN-SITU LOAD TESTS

1709.1 General: Whenever there is a reasonable doubt as to the stability or loadbearing capacity of a completed building, structure or portion thereof for the expected *loads*, an engineering assessment shall be required. The engineering assessment shall involve either a structural analysis or an in-situ load test, or both. The structural analysis shall be based upon actual material properties and other as-built conditions which affect stability or loadbearing capacity, and shall be conducted in accordance with the applicable design standard listed in Chapter 35. If the



CITY OF PORTLAND MAINE

389 Congress St., Rm 315

Portland, ME 04101

Tel. - 207-874-8704

Fax - 207-874-8716

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

FROM DESIGNER: Gregory Downes, AIA

Symmes Maini & McKee Associates

DATE: March 27, 2002

Job Name: University of Southern Maine Biosciences Institute

Address of Construction: Falmouth Street, Portland, Maine

THE BOCA NATIONAL BUILDING CODE/1999 Fourteenth EDITION

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

Building Code and Year BOCA 1999 Use Group Classification(s) B

Type of Construction 2B Bldg. Height 42 feet Bldg. Sq. Footage 57,563

Seismic Zone Exposure Category C Group Class I, Aa=Av=.10, S=1.0, R=5.5, T=.53

Roof Snow Load Per Sq. Ft. 50 Dead Load Per Sq. Ft. 120 (Concrete Frame)

Basic Wind Speed (mph) 90 Effective Velocity Pressure Per Sq. Ft. 21 PSF Min.

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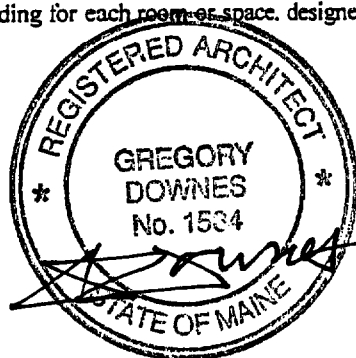
Structure has full sprinkler system? Yes No Alarm System? Yes No
Sprinkler & Alarm systems must be installed according to BOCA and NFPA Standards with approval from the Portland Fire Department.

Is structure being considered unlimited area building: Yes No

If mixed use, what subsection of 313 is being considered N/A

List Occupant loading for each room or space designed into this Project. See Drawing A0.1

PSH 6/07/2K



(Designers Stamp & Signature)



City of Portland, Maine

389 Congress St., Rm 315
Portland, ME 04101

ACCESSIBILITY CERTIFICATE

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

FROM: Gregory Downes, AIA

RE: Certificate of Design, HANDICAP ACCESSIBILITY

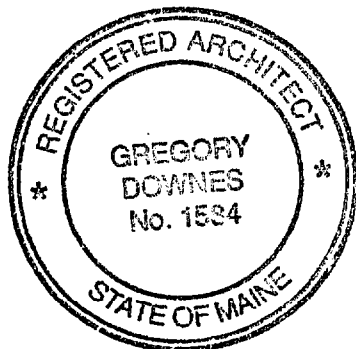
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(SEAL)

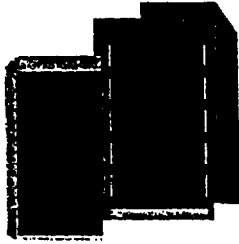


Signature 

Title Principal

Firm Symmes Maini & McKee Associates

Address 1000 Massachusetts Avenue
Cambridge, MA 02138



**CITY OF PORTLAND
BUILDING CODE CERTIFICATE
389 Congress St., Rm 315
Portland, ME 04101**

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

FROM: Gregory Downes, AIA

RE: Certificate of Design

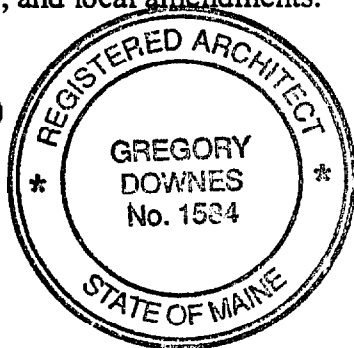
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(SEAL)



Signature *Gregory Downes*

Title Principal

Firm Symmes Maini & McKee Associates

Address 1000 Massachusetts Avenue, Cambridge, MA 02138

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1703.3.3 Test and inspection records: Copies of all necessary test and inspection records shall be filed with the code official.

1703.4 Identification: All required product identification shall be legible and shall be applied to the product or product packaging, as applicable, in a manner that will allow product verification at the time of a field inspection conducted by the code official or special inspector, as applicable, prior to the issuance of a certificate of occupancy by the code official.

For products where the required identification is on the product packaging, the part of the packaging containing the product identification shall be kept at the building site where it can be verified at the time of field inspection. For products where the required identification is concealed from view after the product is installed, the code official shall be notified before the product identification is concealed and the product identification shall not be concealed before approval

SECTION 1704.0 APPROVALS

1704.1 Written approval: Any material, appliance, equipment, system or method of construction meeting the requirements of this code shall be approved in *writing* within a reasonable time after satisfactory completion of all the required tests and submission of required test reports.

1704.2 Approved record: For any material, appliance, equipment, system or method of construction that has been approved, a record of such approval, including all of the conditions and limitations of the approval, shall be kept on file in the code official's office and shall be open to public inspection at all appropriate times.

1704.3 Labeling: Products and materials required to be *labeled* shall be *labeled* in accordance with the procedures set forth in Sections 1704.3.1 through 1704.3.3.

1704.3.1 Testing: An *approved agency* shall test a representative sample of the product or material being *labeled* to the relevant standard or standards. The *approved agency* shall maintain a record of all of the tests performed. The record

shall provide sufficient detail to verify compliance with the test standard.

1704.3.2 Inspection and identification: The *approved agency* shall periodically perform an inspection, which shall be in-plant if necessary, of the product or material that is to be *labeled*. The inspection shall verify that the *labeled* product or material is representative of the product or material tested.

1704.3.2.1 Independent: The *agency* to be approved shall be objective and competent. The *agency* shall also disclose all possible conflicts of interest so that objectivity can be confirmed.

1704.3.2.2 Equipment: An *approved agency* shall have adequate equipment to perform all required tests. The equipment shall be periodically calibrated.

1704.3.2.3 Personnel: An *approved agency* shall employ experienced personnel educated in conducting, supervising and evaluating tests.

1704.3.3 Label information: The *label* shall contain the manufacturer's or distributor's identification, model number, serial number, or definitive information describing the product or material's performance characteristics and *approved agency's* identification.

1704.4 Heretofore-approved materials: The use of any material already *fabricated* or of any construction already erected, which conformed to requirements or approvals heretofore in effect, shall be permitted to continue, if not detrimental to life, health or safety of the public.

SECTION 1705.0 SPECIAL INSPECTIONS

1705.1 General: The permit applicant shall provide *special inspections* where application is made for construction as described in this section. The special inspectors shall be provided by the permit applicant and shall be qualified and approved for the inspection of the work described herein.

Exceptions

1. *Special inspections* are not required for work of a minor nature or where warranted by conditions in the jurisdiction.
2. *Special inspections* are not required for building components unless the design involves the practice of professional engineering or architecture as defined by applicable state statutes and regulations governing the professional registration and certification of engineers or architects.
3. *Special inspections* are not required for occupancies in Use Group R-3 and occupancies in Use Group U that are accessory to a residential occupancy including, but not limited to, those listed in Table 312.1.

1705.1.1 Building permit requirement: The permit applicant shall submit a *statement of special inspections* prepared by the registered design professional in responsible charge in accordance with Section 114.2.1 as a condition for permit issuance. This statement shall include a complete list of materials and work requiring *special inspection* by this section, the *inspections* to be performed and a list of the

be tested by ultrasonic testing or other approved methods at a percentage rate established by the *registered design professional* responsible for the structural design. All partial penetration column splice welds designed for axial or flexural tension from seismic forces shall be tested.

1705.3.3.2.3 Base metal testing: Base metal having a thickness more than 1½ inches (38 mm) and subject to through-thickness weld shrinkage strains shall be ultrasonically tested for discontinuities behind and adjacent to the welds after joint welding. Any material discontinuities shall be evaluated based on the criteria established in the *construction documents* by the *registered design professional* responsible for the structural design.

1705.3.3.3 Details: The special inspector shall perform an *inspection* of the steel frame to verify compliance with the details shown on the approved *construction documents*, such as bracing, stiffening, member locations and proper application of joint details at each connection.

1705.4 Concrete construction: The *special inspections* for concrete elements of buildings and structures and concreting operations shall be as required by Sections 1705.4.1 through 1705.4.7.

Exception: *Special inspections* shall not be required for:

1. Concrete footings of buildings three stories or less in height which are fully supported on earth or rock.
2. Nonstructural concrete slabs supported directly on the ground, including prestressed slabs on grade, where the effective prestress in the concrete is less than 150 psi (0.11 kg/mm²).
3. Plain concrete foundation walls constructed in accordance with Table 1812.3.2.
4. Concrete patios, driveways and sidewalks, on grade.

1705.4.1 Materials: In the absence of sufficient data or documentation providing evidence of conformance to quality standards for materials in Chapter 3 of ACI 318 listed in Chapter 35, the code official shall require testing of materials in accordance with the appropriate standards and criteria for the material in Chapter 3 of ACI 318 listed in Chapter 35. Weldability of reinforcement, except that which conforms to ASTM A706 listed in Chapter 35, shall be determined in accordance with the requirements of Section 1906.5.2.

1705.4.2 Installation of reinforcing and prestressing steel: The location and installation details of reinforcing and prestressing steel shall be *inspected* for compliance with the approved *construction documents* and ACI 318 (such as Sections 7.4, 7.5, 7.6 and 7.7) listed in Chapter 35. Welding of reinforcing of the structural seismic-resisting system shall be inspected for buildings assigned to Seismic Performance Category C, D or E, in accordance with Section 1610.1.7.

1705.4.3 Formwork: Forms for concrete, if used, shall be *inspected* for compliance with Section 6.1 of ACI 318 listed in Chapter 35, and with any additional design requirements indicated on the approved *construction documents*. *Inspection* of form removal and reshoring shall be conducted to

verify compliance with Section 6.2 of ACI 318 listed in Chapter 35.

1705.4.4 Concreting operations: During placing and curing of concrete, the *special inspections* listed in Table 1705.4.4 shall be performed.

Table 1705.4.4
REQUIRED INSPECTIONS DURING CONCRETING

Required inspection	Reference ^a for criteria
1. Evaluation of concrete strength, except as exempted by Section 1908.3.1(3) of this code.	ACI 318 Section 5.6
2. Inspection for use of proper mix proportions and proper mix techniques.	ACI 318 Chapter 4, Sections 5.2, 5.3, 5.4 and 5.8
3. Inspection during concrete placement, for proper application techniques.	ACI 318 Sections 5.9 and 5.10
4. Inspection for maintenance of specified curing temperatures and techniques.	ACI 318 Sections 5.11, 5.12 and 5.13

Note a. ACI 318 listed in Chapter 35.

1705.4.5 Inspection during prestressing: *Inspection* during the application of prestressing forces shall be performed to determine compliance with Section 18.18 of ACI 318 listed in Chapter 35.

1705.4.5.1 Inspection during grouting: In buildings assigned to Seismic Performance Category C, D or E, in accordance with Section 1610.1.7, inspection during the grouting of bonded prestressing tendons in the structural seismic-resisting system shall be performed.

1705.4.6 Manufacture of precast concrete: The manufacture of precast concrete, as required by Section 1705.2, shall be subject to a quality control program administered by an *approved agency*.

1705.4.7 Erection of precast concrete: Erection of precast concrete shall be *inspected* for compliance with the approved plans and erection drawings.

1705.5 Masonry construction: The *special inspections* listed in Table 1705.5 shall be required for masonry construction where masonry is designed in accordance with ACI 530/ASCE 5/TMS 402 listed in Chapter 35.

1705.6 Wood construction: *Special inspections* of the fabrication process of wood structural elements and assemblies shall be in accordance with Section 1705.2. *Special inspection* is required for nailing, bolting, structural gluing or other fastening of the structural seismic-resisting system of buildings assigned to Seismic Performance Category C, D or E, in accordance with Section 1610.1.7.

1705.7 Prepared fill: The *special inspections* for prepared fill shall be as required by Sections 1705.7.1 through 1705.7.3. The approved report, required by Section 1804.1, shall be used to determine compliance.

1705.7.1 Site preparation: Prior to placement of the prepared fill, the special inspector shall determine that the site has been prepared in accordance with the approved report.

1705.12.3.1 Floor, roof and wall assemblies: The thickness of the sprayed fireresistive material applied to the underside of floor and roof assemblies and to wall assemblies shall be determined by taking the average of four measurements in each 144-square-inch (0.093 m²) sample area, having a minimum width of 6 inches (152 mm), for each 1,000 square feet (93 m²) or part thereof of the sprayed area in each story.

1705.12.3.2 Structural framing members: The thickness of the sprayed fireresistive material applied to structural framing members shall be determined by taking nine measurements at a single cross section for beams and girders, seven measurements at a single cross section for joists and trusses, and 12 measurements at a single cross section for columns. Thickness measurements shall be performed on 25 percent of each type of structural framing members in each story.

1705.12.4 Density: The density of the cured sprayed fire-resistive material applied to structure elements shall not be less than the density specified in the approved fire-resistance design or 15 pounds per cubic foot (240 kg/m³), whichever is greater. Density of the sprayed fire-resistive material shall be determined by an approved method using the sampling rates specified in Sections 1705.12.3.1 and 1705.12.3.2.

1705.12.5 Bond strength: The cohesive/adhesive bond strength of the cured sprayed fire-resistive material applied to structure elements shall not be less than the cohesive/adhesive bond strength specified in the approved fire-resistance design or 150 pounds per square foot (732 kg/m²), whichever is greater. The cohesive/adhesive bond strength shall be determined by an approved method using the samples of the sprayed fire-resistive material selected in accordance with Sections 1705.12.5.1 and 1705.12.5.2.

1705.12.5.1 Floor, roof and wall assemblies: The samples used for determining the cohesive/adhesive bond strength of the sprayed fire-resistive materials shall be taken from each floor, roof and wall assembly at the rate of one sample for every 10,000 square feet (929 m²) or part thereof of the sprayed area in each story.

1705.12.5.2 Structural framing members: The samples used for determining the cohesive/adhesive bond strength of the sprayed fire-resistive materials shall be taken from beams, girders, joists, trusses, and columns at the rate of one sample for each type of structural framing member for each 10,000 square feet (929 m²) of floor area of part thereof in each story.

1705.13 Exterior insulation and finish systems (EIFS): Special inspections shall be based upon the information provided in the manufacturer's installation instructions and the construction documents. The manufacturer's installation instructions shall include criteria for: the conditions of the substrate; foam plastic material and application; mesh application; base coat application including thickness, ambient conditions and cure; sealant requirements; finish coat application; details for joints and flashing at windows, doors, joints in the system, eaves, corners, and penetrations; and any other criteria necessary for the proper installation of the EIFS.

1705.14 Special cases: *Special inspections* shall be required for proposed work which is, in the opinion of the code official, unusual in its nature, such as:

1. Construction of materials and systems which are alternatives to materials and systems prescribed by this code.
2. Unusual design applications of materials described in this code.
3. Materials and systems required to be installed in accordance with additional manufacturer's instructions that prescribe requirements not contained in this code or in standards referenced by this code.

SECTION 1706.0 DESIGN STRENGTHS OF MATERIALS

1706.1 Conformance to standards: The design strengths and permissible stresses of any structural material that is identified by a manufacturer's designation as to manufacture and grade by mill tests, or the strength and stress grade is otherwise confirmed to the satisfaction of the code official, shall conform to the specifications and methods of design of accepted engineering practice or the *approved rules* in the absence of applicable standards.

1706.2 New materials: For materials which are not specifically provided for in this code, the design strengths and permissible stresses shall be established by tests as provided for in Sections 1708.0 and 1709.0.

SECTION 1707.0 ALTERNATIVE TEST PROCEDURE

1707.1 General: In the absence of *approved rules* or other approved standards, the code official shall make, or cause to be made, the necessary tests and investigations; or the code official shall accept duly authenticated reports from *approved agencies* in respect to the quality and manner of use of new materials or assemblies as provided for in Section 106.0. The cost of all tests and other investigations required under the provisions of this code shall be borne by the permit applicant.

SECTION 1708.0 TEST SAFE LOAD

1708.1 Where required: Where proposed construction is not capable of being designed by approved engineering analysis, or where proposed construction design method does not comply with the applicable material design standard listed in Chapter 35, the system of construction or the structural unit and the connections shall be subjected to the tests prescribed in Section 1710.0. The code official shall accept certified reports of such tests conducted by an *approved testing agency*, provided that such tests meet the requirements of this code and approved procedures.

SECTION 1709.0 IN-SITU LOAD TESTS

1709.1 General: Whenever there is a reasonable doubt as to the stability or loadbearing capacity of a completed building, structure or portion thereof for the expected *loads*, an engineering assessment shall be required. The engineering assessment shall involve either a structural analysis or an in-situ load test, or both. The structural analysis shall be based upon actual material properties and other as-built conditions which affect stability or loadbearing capacity, and shall be conducted in accordance with the applicable design standard listed in Chapter 35. If the

BUILDING PERMIT INSPECTION PROCEDURES

Please call 874-8703 or 874-8693 to schedule your inspections as agreed upon

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

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

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

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

N/A **Footing/Building Location Inspection:** Prior to pouring concrete

N/A **Re-Bar Schedule Inspection:** Prior to pouring concrete

N/A **Foundation Inspection:** Prior to placing ANY backfill

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

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

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

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

N/A **CERTIFICATE OF OCCUPANCIES MUST BE ISSUED AND PAID FOR, BEFORE THE SPACE MAY BE OCCUPIED**

Buen A Holmes
Signature of applicant/designee

5/1/02
Date

[Signature]
Signature of Inspections Official

5/1/02
Date

CBL: 1147 A001 Building Permit #: 007-0370