josef chalat

Azimuth, LLC • 207-799-0404 • 327 Ocean House Road, Cape Elizabeth, M

January 8, 2015

Jeanie Bourke, CEO/LPI/Plan Reviewer, Inspections Division, City of Portland, Maine
Captain Chris Pirone, Portland Fire Department

I am pleased to submit documents in support of an application for a construction permit for a tenant improvement project of existing office space at 261 Commercial Street (19 Cross Street) on behalf of my client, MEMIC.

Project Description:

The proposed project calls for the renovation of 4991 square feet of existing office space on the 2nd floor of the building and renovation of 3125 square feet of existing office space on the 6th floor. The project is entirely within the boundaries of existing leased tenant space; there are no changes required or proposed to the egress stairs, or exits that serve the tenants in the building. The proposed work will demolish a small number of offices and provide open office area for demountable work stations. The scope of the project deals primarily with interior finishes. The project does not involve changes to the building structure or thermal envelope.

The tenant, MEMIC, is an insurance company specializing in Worker's Compensation The office environment is what you would typically find in an insurance company office and is unremarkable in terms of materials stored on site, occupant activities, and day to day business operations.

Code Reviews:

The documents include code reviews for both NFPA 101 and IBC 2009. It is important to note that there is no change proposed to the occupancy, occupant load, or extent of existing tenant space. This code review is for the Area of Work, as defined in the International Existing Building Code only. I have assumed that code requirements for items such as egress stairs, exit discharge, building type, building height and area limitations, fire ratings, separation of occupancies, and all other code issues that deal with the building beyond the work area have been addressed in earlier permits and are outside the scope of this project

The project has been designed to comply with the ADA technical guidelines for the Area of Work

Submission:

This project has been submitted to the City of Portland for a fast track review. It has also been submitted to the State Fire Marshal.

I look forward to answering any questions you have

Regards,
Josef Chalat, Architect

Project Description:

The building at 261 Commercial Street in Portland, Maine is a six (6) story office building owned by Casco View Holding LLC of Portland, Maine, and leased by MEMIC (Maine Employers' Mutual Insurance Company), a private mutual insurance company that opened in January 1993. The project involves reconfiguring office space on the 2nd and 6th floors. The work does not require changes to the structure of the building. This code summary demonstrates that the proposed work complies with applicable sections of NFPA 101, Life Safety Code Handbook, and the requirements of the specific occupancy, Existing Business.

Chapter 39: Existing Business Occupancies

39.1 General Requirements

39.1.1 Application.
No change in occupancy is proposed.

39.1.2 Multiple Occupancies:
Not applicable to this permit application

39.1.3 Special Definitions:
Not applicable to this permit application

39.1.4 Classification of Occupancy: Business: See §6.1.11
The Building Occupant, MEMIC, is a private mutual insurance company. The occupant's activities conform to the definition of a Business Occupancy in §6.1.11.1.

39.1.5 Classification of Hazard of Contents: see §6.2.2
The contents of this office comply with the Code's description of Ordinary Hazard Contents in §6.2.2.3* Ordinary Hazard Contents.

39.1.6 Minimum Construction Requirements:
No requirements

39.1.7 Occupant Load:
The occupant load has been calculated according to Table 7.3.1.2. See drawings, sheet CR-1 calculations:
2nd floor: 73 occupants
6th floor: 136 occupants

39.2 Means of Egress Requirements

39.2.1 General

The existing stairs serve as the exits for each floor. The exit access on each floor has been designed in accordance with the means of egress requirements specified by Chapter 7 and Chapter 39.

39.2.2 Means of Egress Components.

39.2.2.2 Doors. Doors complying with 7.2.1 shall be permitted

7.2.1.4.2 Door Leaf Swing Direction: A door can swing opposite direction of egress travel with room occupant load less than 50.

39.2.2.3 Stairs. No change to the existing stairs is proposed

39.2.3 Capacity of Means of Egress.

7.3.1.1.2: the loss of any means of egress leaves available 50% of egress capacity:

Stairs: The occupant load of the 6th floor = 136. 50% =68 Occupants
Stair width = .3 x 68 = 20.4 inches
Access ways = .2 x 68 = 13.6 inches
Doors: All existing doors in the means of egress are 36" wide leaves

39.2.3.2 Clear width required

a clear width of at least 44" has been provided at new passageways serving an occupant load greater than 50

39.2.4 Number of Exits.

39.2.4.1 (2) 2 exits required

Two stair enclosures, labeled North Stair and South Stair on the plans, serve each floor

39.2.4.2 Exit access is allowed to be on a single path for up to the maximum common path of travel allowed

Maximum Common Path of travel = 100 feet (per 39.2.5.3.1). See drawing CR-1 for depiction of Common Paths of travel

39.2.5 Arrangement of Means of Egress.

39.2.5.2* Dead-end corridors shall not exceed 50 ft
The proposed work does not include any corridors
39.2.5.3.1 Common path of travel shall not exceed 100 ft on a story protected throughout by an approved automatic sprinkler system in accordance with 9.7.1.1(1).See CR-1 for depiction of Common Paths of travel

39.2.6 Travel Distance to Exits.

39.2.6.3 Travel distance to an exit, measured in accordance with 7.6 shall not exceed 300 ft (91 m) in business occupancies protected throughout by an approved, supervised automatic sprinkler system in accordance with §9.7. See drawing cr-1

39.2.7 Discharge from Exits.

Existing. No change proposed. Both exit stairs terminate at an exterior public way

39.2.8 Illumination of Means of Egress.

Lighting, with a combination of motion sensor–type lighting switches and dedicated circuits will be provided so that the illumination at all floor areas will be a minimum of 1 ft candle when occupants are present. See mechanical drawings

39.2.9 Emergency Lighting.

See mechanical drawings for existing and new emergency lighting.

39.2.10 Marking of Means of Egress.

See Life Safety Devices plans for existing and new exit signs

39.2.11 Special Means of Egress Features. Not applicable

39.3 Protection

39.3.1 Protection of Vertical Openings.

The existing exit stair enclosures appear to be enclosed by fire rated construction, and would have been required to be so enclosed when the building was constructed, however, this document does not represent that the existing fire stair enclosure meets code. The floor plan CR-1 shows the location of existing labeled doors.

39.3.2 Protection from Hazards.

Materials within this tenant space are routine office supplies that would be considered ordinary hazard materials, and therefore not required to be separated per 39.3.2.2. The appliances in the kitchenette area are used for food warming and are not flue connected appliances.

39.3.3 Interior Finish. Table A.10.2.2
Business Occupancy, Sprinklered
Exits
Walls and Ceilings: A, B, or C permitted Floors: no requirements
Exit Access Corridors
Walls and Ceilings: A, B, or C permitted Floors: no requirements
Other Spaces
Walls and Ceilings: A, B, or C permitted Floors: no requirements

39.3.4 Detection, Alarm, and Communications Systems.
The existing alarm systems shall be modified as the work requires. See mechanical plans for specific details

39.3.5 Extinguishment Requirements.
In accordance with NFPA 10, Standards for Portable Fire Extinguishers, Table 6.2.1.1 Fire Extinguisher Size and Placement for Class A Hazards. See drawing CR-1 for maximum travel distance and fire extinguisher locations

39.3.6 Corridors. (No requirements.)

39.3.7 Subdivision of Building Spaces. (No special requirements.)

39.4 Special Provisions 39.

Not applicable to this permit application

39.5 Building Services

39.5.1 Utilities
Not applicable to this permit application

39.5.2 Heating, Ventilating, and Air-Conditioning
See mechanical drawings

39.5.3 Elevators, Escalators, and Conveyors
Not applicable to this permit application

39.5.4 Rubbish Chutes, Incinerators, and Laundry Chutes.
Not applicable to this permit application

39.6 Reserved

39.7.1 Emergency Plans.
Discussion: Tenant shall provide training to designated employees in the use of portable fire extinguishers. Tenant shall conduct drills in accordance with §4.7

Applicant
MEMIC 261 Commercial Street
Portland Maine, 04101

Tenant Contact
Catherine Lamson,
Senior Vice President
Chief Administrative Officer
(207) 791 3304

Architect:
Josef Chalat, Architect
327 Ocean House Road
Cape Elizabeth, Maine 04107
Phone: (207) 318-3234
Email: azimuth@maine.rr.com

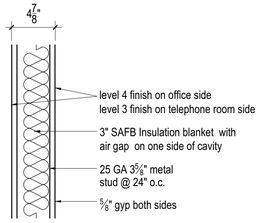
Proposed Use of Structure (unchanged from existing)
IBC Business Occupancy B, Section 305, NFPA Chapter 39, Existing Business Occupancy

Floor Area (in square feet)

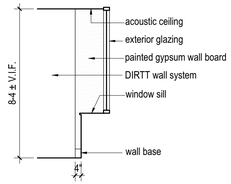
2nd floor	
Project area	4991
Gross floor area	8112
6th floor	
Project area	3125
Gross floor area	8171
Total Project Area	8116

Fire Protection of Structure:
The existing building appears to be fully sprinklered. The existing sprinkler system within the work area shall be modified on a design/build basis to accommodate revisions to the floor plan.

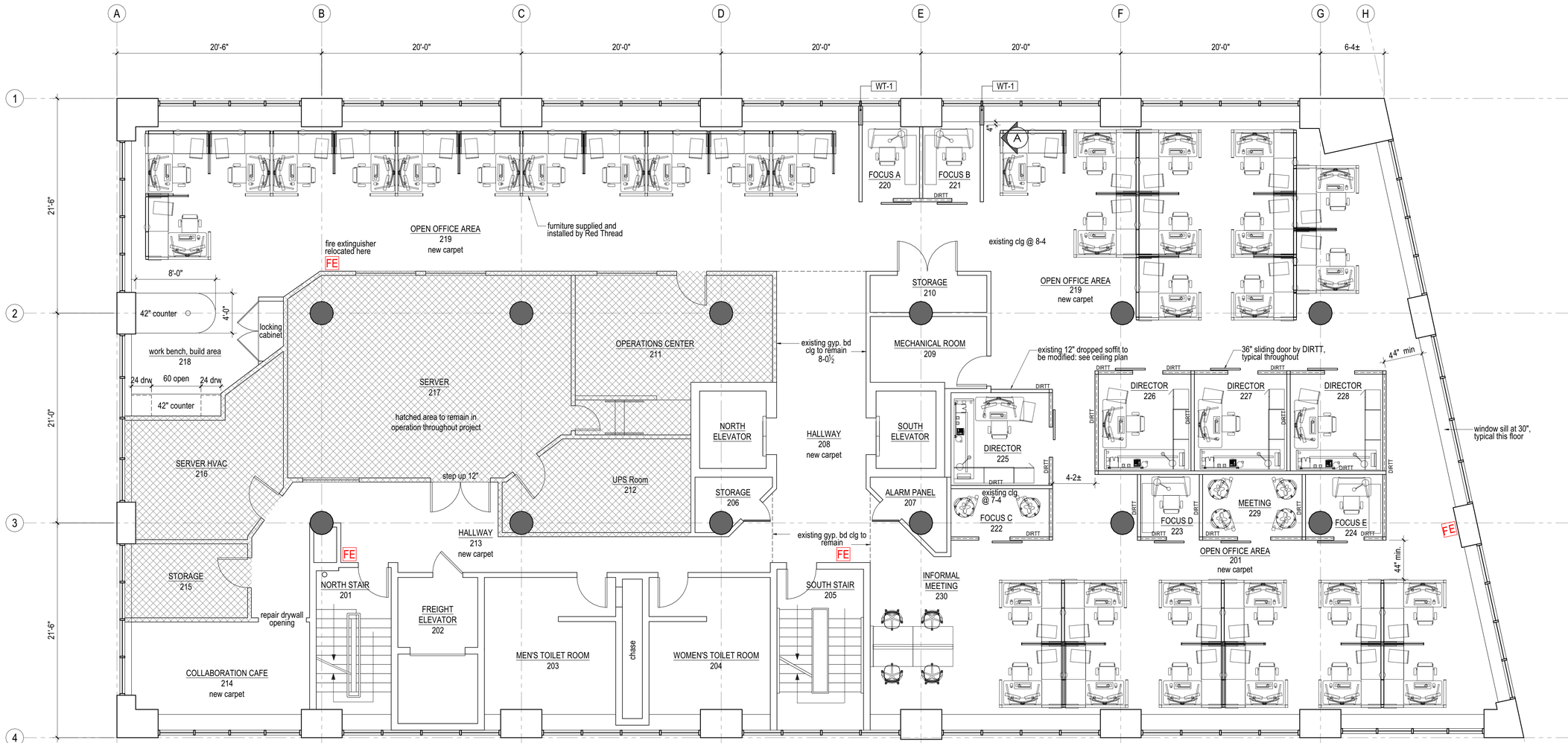
Wall Notes:
1. Provide acoustic sealant at bottom of wall, power outlets, switches
2. Offset outlets or other penetrations at least one stud bay so that no stud bay contains pentrations on both sides of wall
3. Provide moisture resistant cement backer board board at tile installations



WT-01 Wall Type (non-rated partition)
1½"= 1'-0"



A section/elevation
1/4"= 1'-0"



2nd Floor Plan
3/16"= 1'-0"

0 4' 8' 16' 32'

LICENSED ARCHITECT
JOSEF CHALAT
AR2354
STATE OF MAINE

Inspections Division
Date: 02/05/15

Architect:
Josef Chalat, Architect
327 Ocean House Road
Cape Elizabeth, Maine 04107
ph: (207) 318-3234
e: azimuth@maine.rr.com

Planning and Interior Design:
Lisa Whited
Whited Planning and Design
ph: (2017) 329-2189
lwhited@maine.rr.com

Gretchen Boulos NCIDQ
Boulos Commercial Design
ph: (207) 749 1795
gretchen@bouloscommercialdesign.com

Mechanical Engineering:
Bennet Engineering
contact: Cat Tranberg
ph (207) 865-9475
Cat@bennettengineering.net

General Contractor:
Zachau Construction
1185 U.S. Route One
Freeport, ME 04032
ph (207) 865-9925 (office)
contact: Jon
(207) 807-8980 (mobile)
Jon@zachauconstruction.com

Project:
MEMIC 261 Commercial Street
2nd & 6th floor Tenant Improvements

Tenant:
MEMIC
261 Commercial Street
(19 Cross Street)
Portland Maine, 04101

Tenant Contact
Catherine Lamson,
Senior Vice President
Chief Administrative Officer
(207) 791 3304

Building Owner:
Casco View Holdings II, LLC
PO Box 1137
Portland, ME 04104

City of Portland Information:
CBL 038 F019
Tax acct no. 51170

Date: 01-07-2015
Purpose:
Fast Track Construction Permit
City of Portland, Maine

Revisions

Sheet Title

2nd floor plan

Sheet Number

a1

6th Floor Plan
3/16"= 1'-0"

Inspections Division
Date: 02/05/15

LICENSED ARCHITECT
JOSEF
CHALAT
AR2354
STATE OF MAINE

Architect:
Josef Chalat, Architect
327 Ocean House Road
Cape Elizabeth, Maine 04107
ph: (207) 318-3234
e: azimuth@maine.rr.com

Planning and Interior Design:
Lisa Whited
Whited Planning and Design
ph: (2017) 329-2189
lwhited@maine.rr.com

Gretchen Boulos NCIDQ
Boulos Commercial Design
ph: (207) 749 1795
gretchen@bouloscommercialdesign.com

Mechanical Engineering:
Bennet Engineering
contact: Cat Tranberg
ph (207) 865-9475
Cat@bennettengineering.net

General Contractor:
Zachau Construction
1185 U.S. Route One
Freeport, ME 04032
ph (207) 865-9925 (office)
contact: Jon
(207) 807-8980 (mobile)
Jon@zachauconstruction.com

Project:
MEMIC 261 Commercial Street
2nd & 6th floor Tenant Improvements

Tenant:
MEMIC
261 Commercial Street
(19 Cross Street)
Portland Maine, 04101

Tenant Contact
Catherine Lamson,
Senior Vice President
Chief Administrative Officer
(207) 791 3304

Building Owner:
Casco View Holdings II, LLC
PO Box 1137
Portland, ME 04104

City of Portland Information:
CBL 038 F019
Tax acct no. 51170

Date: 01-07-2015
Purpose:
Fast Track Construction Permit
City of Portland, Maine

Revisions

Sheet Title

6th floor plan

Sheet Number

a2

Ceiling Notes:

Sprinkler Heads:

1. The existing sprinkler system shall be modified as required to accommodate the proposed ceiling plan and layout. The sprinkler work shall be designed and installed by a Maine licensed sprinkler contractor, under a separate permit as required by the City of Portland and State of Maine. Wherever possible, sprinkler heads shall be centered in ceiling tiles

Life Safety Devices:

2. Exit signs, alarms, strobe/alarms, emergency lighting, pull stations, smoke and heat detectors, motion sensors, and any other life safety device shall be provided as shown on the mechanical drawings.

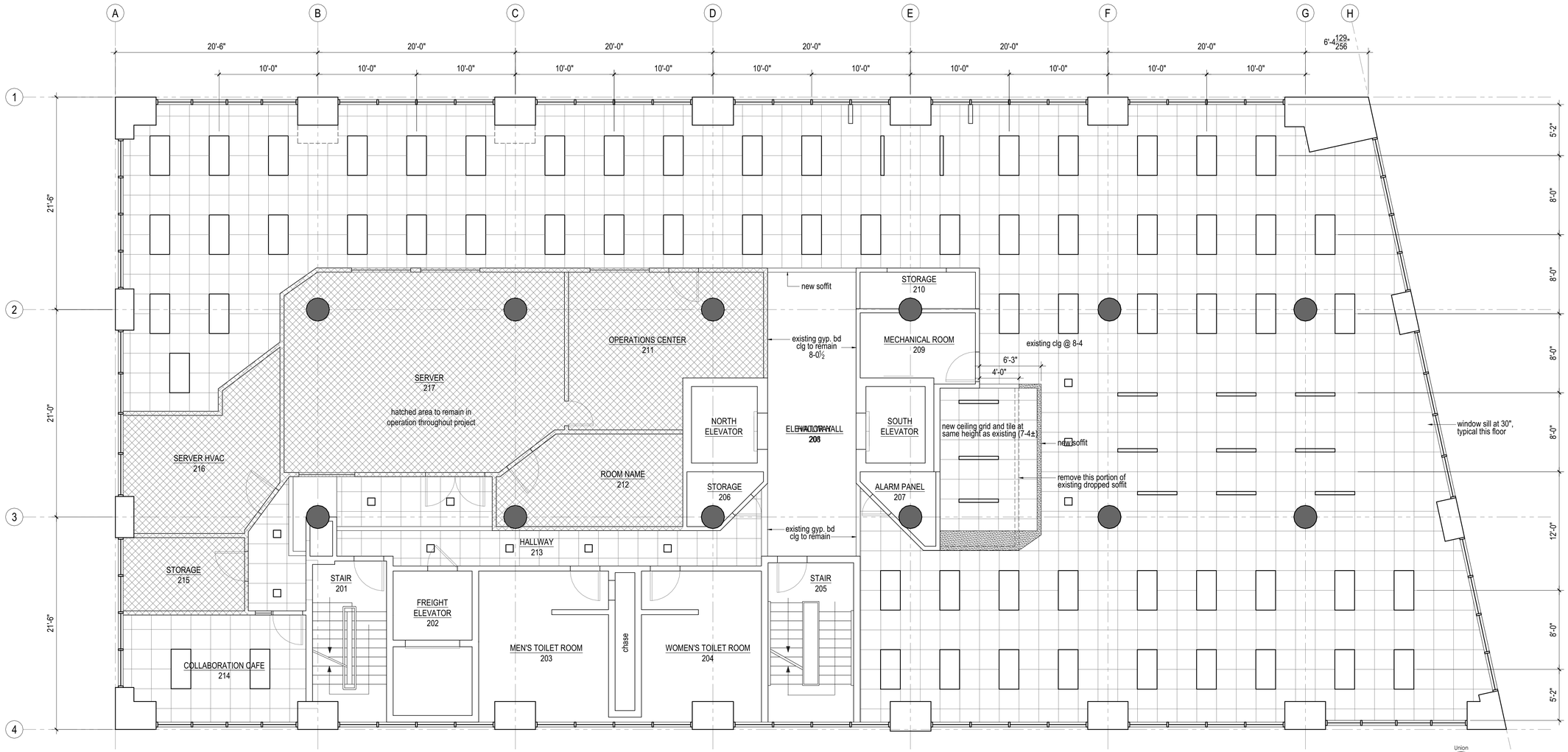
Electrical and Mechanical Equipment:

3. See machnical plans for electrical receptacles, switches light fixtures, switching and circuting, thermostats, louvers, motion sensors, and any other electrical or mechanical equipment

Soffits

4. Provide gypsum board soffits on 3-5/8" metal framing metal framing with minimum 6" vertical face. Provide level 4 finish. Finished elevation of soffit to match finished elevation of ceiling tile unless other height is called out.

Ceiling Grid and Ceiling Tile



2nd Floor Reflected Ceiling Plan
3/16"= 1'-0"

Ceiling System:

Grid:
Silhouette XL 1/4" reveal, 9/16" Slotted Tee System
Ceiling tiles:
Ultima beveled tegular 1912 2' x 2' x 3/4"
NRC = 0.70 CAC = 35, CLass A, Light Reflectance:0.9

0 4' 8' 16' 32"

Union Fore Commercial Cross

project north

2x4 fixture
2x2 fixture
recessed
4x48 linear

Inspections Division
Date: 02/05/15

LICENSED ARCHITECT
JOSEF CHALAT
AR2354
STATE OF MAINE

Architect:
Josef Chalat, Architect
327 Ocean House Road
Cape Elizabeth, Maine 04107
ph: (207) 318-3234
e: azimuth@maine.rr.com

Planning and Interior Design:
Lisa Whited
Whited Planning and Design
ph: (2017) 329-2189
lwhited@maine.rr.com

Gretchen Boulos NCIDQ
Boulos Commercial Design
ph: (207) 749 1795
gretchen@bouloscommercialdesign.com

Mechanical Engineering:
Bennet Engineering
contact: Cat Tranberg
ph (207) 865-9475
Cat@bennettengineering.net

General Contractor:
Zachau Construction
1185 U.S. Route One
Freeport, ME 04032
ph (207) 865-9925 (office)
contact: Jon
(207) 807-8980 (mobile)
Jon@zachauconstruction.com

Project:
MEMIC 261 Commercial Street
2nd & 6th floor Tenant Improvements

Tenant:
MEMIC
261 Commercial Street
(19 Cross Street)
Portland Maine, 04101

Tenant Contact
Catherine Lamson,
Senior Vice President
Chief Administrative Officer
(207) 791 3304

Building Owner:
Casco View Holdings II, LLC
PO Box 1137
Portland, ME 04104

City of Portland Information:
CBL 038 F019
Tax acct no. 51170

Date: 01-07-2015
Purpose:
Fast Track Construction Permit
City of Portland, Maine

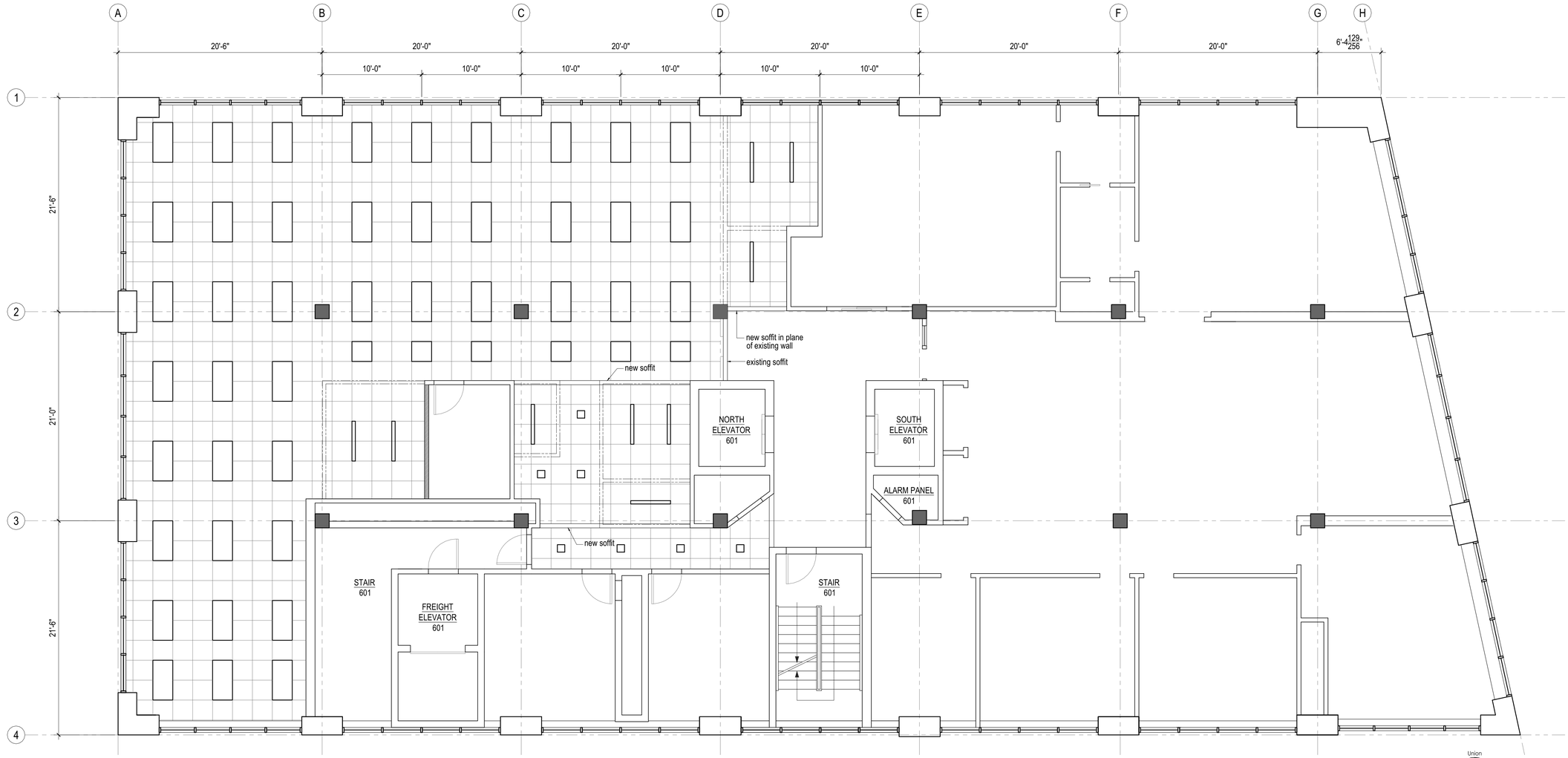
Revisions

Sheet Title

2nd floor ceiling plan

Sheet Number

a3



6th Floor Reflected Ceiling Plan

3/16"= 1'-0"

Ceiling System:

Grid:
Silhouette XL 1/4" reveal, 9/16" Slotted Tee System
Ceiling tiles:
Ultima beveled tegular 1912 2' x 2' x 3/4"
NRC = 0.70 CAC = 35, CLass A, Light Reflectance:0.9

Inspection Division
Date: 02/05/15

LICENSED ARCHITECT
JOSEF CHALAT
AR2354
STATE OF MAINE

Architect:
Josef Chalat, Architect
327 Ocean House Road
Cape Elizabeth, Maine 04107
ph: (207) 318-3234
e: azimuth@maine.rr.com

Planning and Interior Design:
Lisa Whited
Whited Planning and Design
ph: (2017) 329-2189
lwhited@maine.rr.com

Gretchen Boulos NCIDQ
Boulos Commercial Design
ph: (207) 749 1795
gretchen@bouloscommercialdesign.com

Mechanical Engineering:
Bennet Engineering
contact: Cat Tranberg
ph (207) 865-9475
Cat@bennettengineering.net

General Contractor:
Zachau Construction
1185 U.S. Route One
Freeport, ME 04032
ph (207) 865-9925 (office)
contact: Jon
(207) 807-8980 (mobile)
Jon@zachauconstruction.com

Project:
MEMIC 261 Commercial Street
2nd & 6th floor Tenant Improvements

Tenant:
MEMIC
261 Commercial Street
(19 Cross Street)
Portland Maine, 04101

Tenant Contact
Catherine Lamson,
Senior Vice President
Chief Administrative Officer
(207) 791 3304

Building Owner:
Casco View Holdings II, LLC
PO Box 1137
Portland, ME 04104

City of Portland Information:
CBL 038 F019
Tax acct no. 51170

Date: 01-07-2015
Purpose:
Fast Track Construction Permit
City of Portland, Maine

Revisions

Sheet Title

6th floor ceiling plan

Sheet Number

a4

Accessibility Building Code Certificate

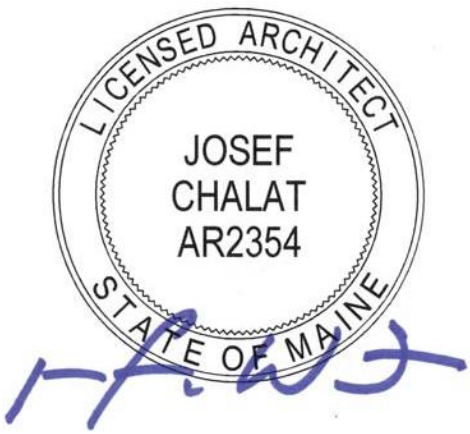
Inspections Division
Date: 02/05/15

Designer: Josef Chalat, Architect

Address of Project: 261 Commercial Street, Portland, ME 04101

Nature of Project: Tenant improvement of portions of 2nd and 6th floors

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: Josef Chalat
Digitally signed by Josef Chalat
DN: cn=Josef Chalat, o=Azimuth LLC, ou=Architect, email=azimuth@maine.rr.com, c=US
Date: 2015.01.09 15:21:52 -05'00'

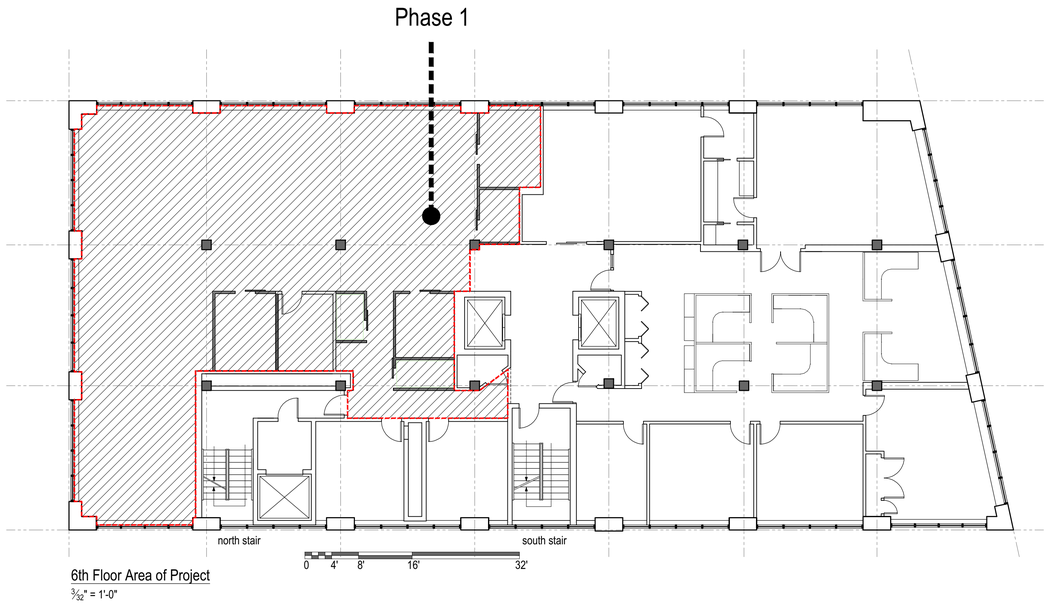
Title: Architect

Firm: Azimuth LLC

Address: 12 Channel View Road
261 Commercial Street

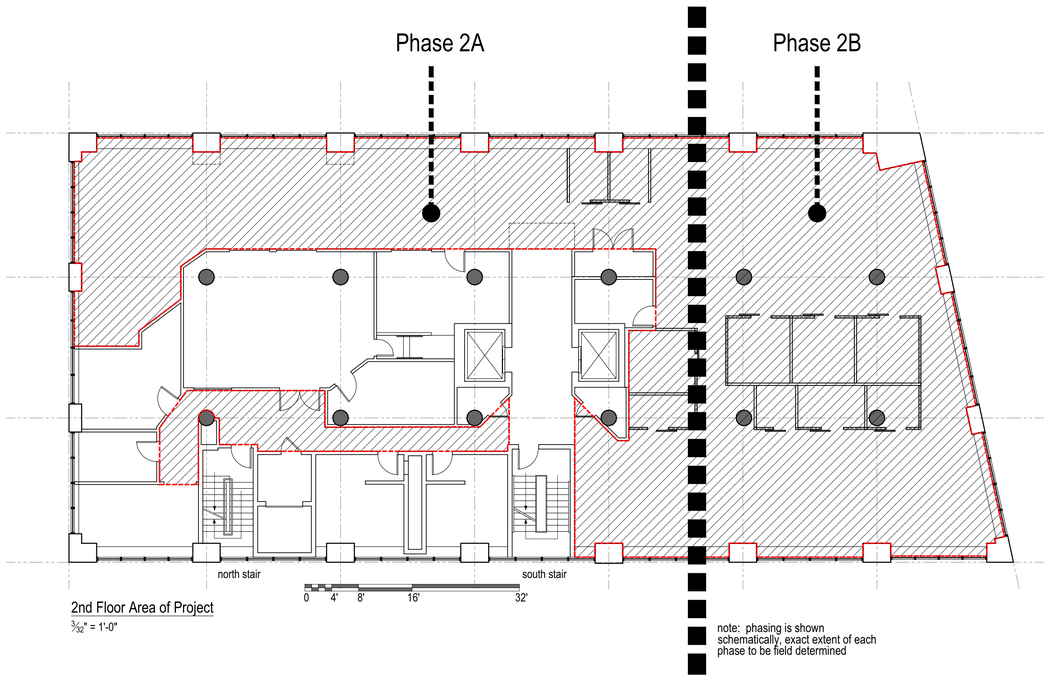
Phone: 207 318 3234

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



6th Floor Area of Project

$^{3}/_{32}$" = 1'-0"



2nd Floor Area of Project

$^{3}/_{32}$" = 1'-0"

note: phasing is shown schematically, exact extent of each phase to be field determined

6th Floor Area of Project
(work area per IEBC)

gross project area	3125 sf
gross floor area	8171 sf

Project description:
The project consists of demolishing selected existing walls and ceilings and providing open office work area for demountable work stations, and enclosed offices defined by full height demountable partitions (DIRTT) walls. An electrical panel serving the floor will be relocated. The HVAC system will me modified as required. The locations of existing life safety devices and sprinkler heads will also be adjusted and new items added where required

LEGEND

full height demountable partition

hatching indicates area of work

2nd Floor Area of Project
(work area per IEBC)

gross project area	4991 sf
gross floor area	8112 sf

Project description:
The project consists of demolishing selected existing walls and ceilings and providing open office work area for demountable work stations, and enclosed offices defined by full height demountable partitions (DIRTT) walls. An electrical panel serving the floor will be relocated. The HVAC system will me modified as required. The locations of existing life safety devices and sprinkler heads will also be adjusted and new items added where required

Total Area on two floors: 8116 square feet

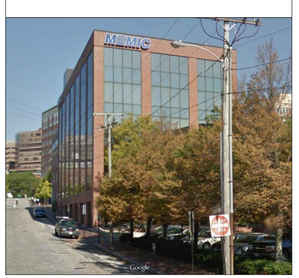
DESCRIPTION OF EXISTING BUILDING:

The existing building is a 6 story steel and concrete framed building with a brick, aluminum and glass exterior. The original 5 story building had a 6th floor added to it.

General Notes:

1. The general contractor shall perform the work of this project, as depicted on drawings, specifications, code reviews, revisions, and all other material submitted to the City of Portland in support of the building permit application for this project
2. The contractor shall maintain access to the existing means of egress, including exits, stairs, and elevators for all portions of the work
3. The project as designed does not require penetrations at any of the rated walls or floors in the building. However, if existing conditions are encountered that require penetrations of existing rated walls, floors, or ceilings, the contractor shall notify the architect immediately. The architect shall submit to The City of Portland details for firestopping to satisfy the requirements of IBC section 713, NFPA 1, section 12.7.5.1 and NFPA 101 Section 8.3.5, Penetrations
4. The Work shall be constructed in phases as depicted on the diagram at left. The General contractor shall submit a schedule indicating approximate start and finish dates of each phase
5. The existing sprinkler system within the work area shall be modified on a design/build basis to accommodate revisions to the floor plan. A licensed sprinkler contractor shall obtain all permits required for the work

LIST OF DRAWINGS:



Inspections Division
Date: 02/05/15

LICENSED ARCHITECT
JOSEF CHALAT
AR2354
STATE OF MAINE

Architect:
Josef Chalat, Architect
327 Ocean House Road
Cape Elizabeth, Maine 04107
ph: (207) 318-3234
e: azimuth@maine.rr.com

Planning and Interior Design:
Lisa Whited
Whited Planning and Design
ph: (2017) 329-2189
lwhited@maine.rr.com

Gretchen Boulos NCIDQ
Boulos Commercial Design
ph: (207) 749 1795
gretchen@bouloscommercialdesign.com

Mechanical Engineering:
Bennet Engineering
contact: Cat Tranberg
ph (207) 865-9475
Cat@bennettengineering.net

General Contractor:
Zachau Construction
1185 U.S. Route One
Freeport, ME 04032
ph (207) 865-9925 (office)
contact: Jon
(207) 807-8980 (mobile)
Jon@zachauconstruction.com

Project:
MEMIC 261 Commercial Street
2nd & 6th floor Tenant Improvements

Tenant:
MEMIC
261 Commercial Street
(19 Cross Street)
Portland Maine, 04101

Tenant Contact
Catherine Lamson,
Senior Vice President
Chief Administrative Officer
(207) 791 3304

Building Owner:
Casco View Holdings II, LLC
PO Box 1137
Portland, ME 04104

City of Portland Information:
CBL 038 F019
Tax acct no. 51170

Date: 01-07-2015
Purpose:
Fast Track Construction Permit
City of Portland, Maine

Revisions

Sheet Title

cover sheet
project description
general notes

Sheet Number

c1

Certificate of Design Application

Inspections Division
Date: 02/05/15

From Designer: Josef Chalat, Architect

Date:

Job Name: MEMIC, Tenant Improvements, 2nd and 6th floors

Address of Construction: 261 Commercial Street, Portland Maine, 04101

2009 International Building Code

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

Building Code & Year IBC 2009 & IECC 2009 Use Group Classification (s) Business Group B Section 304

Type of Construction IIIA (fire ratings to be verified as required)

Will the Structure have a Fire suppression system in Accordance with Section 903.3.1 of the 2009 IRC NO, sprinkler per IBC

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) No

Structural Design Calculations

Not Required 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

Wind loads (1603.1.4, 1609)

_____ Design option utilized (1609.1.1, 1609.6)

_____ Basic wind speed (1809.3)

_____ Building category and wind importance Factor, I_w table 1604.5, 1609.5)

_____ Wind exposure category (1609.4)

_____ Internal pressure coefficient (ASCE 7)

_____ Component and cladding pressures (1609.1.1, 1609.6.2.2)

_____ Main force wind pressures (7603.1.1, 1609.6.2.1)

Earth design data (1603.1.5, 1614-1623)

_____ Design option utilized (1614.1)

_____ Seismic use group ("Category")

_____ Spectral response coefficients, S_{Ds} & S_{D1} (1615.1)

_____ Site class (1615.1.5)

_____ Live load reduction

_____ Roof *live* loads (1603.1.2, 1607.11)

_____ Roof snow loads (1603.7.3, 1608)

_____ Ground snow load, P_g (1608.2)

_____ If P_g > 10 psf, flat-roof snow load P_f

_____ If P_g > 10 psf, snow exposure factor, C_e

_____ If P_g > 10 psf, snow load importance factor, I_s

_____ Roof thermal factor, C_t (1608.4)

_____ Sloped roof snowload, P_s (1608.4)

_____ Seismic design category (1616.3)

_____ Basic seismic force resisting system (1617.6.2)

_____ Response modification coefficient, R_I and deflection amplification factor C_d (1617.6.2)

_____ Analysis procedure (1616.6, 1617.5)

_____ Design base shear (1617.4, 16175.5.1)

Flood loads (1803.1.6, 1612)

_____ Flood Hazard area (1612.3)

_____ Elevation of structure

Other loads

_____ Concentrated loads (1607.4)

_____ Partition loads (1607.5)

_____ Misc. loads (Table 1607.8, 1607.6.1, 1607.7, 1607.12, 1607.13, 1610, 1611, 2404

Certificate of Design

Inspections Division
Date: 02/05/15

Date: 1/9/2015

From: _____

These plans and / or specifications covering construction work on:

MEMIC, Tenant Improvements on 2nd and 6th Floor

261 Commercial Street, Portland, ME 04101

Have been designed and drawn up by the undersigned, a Maine registered Architect / Engineer according to the **2009 International Building Code** and local amendments.

LICENSED ARCHITECT
JOSEF
CHALAT
AR2354
STATE OF MAINE

Signature: Josef Chalat
Digitally signed by Josef Chalat
DN: cn=Josef Chalat, o=Azimuth LLC, ou=Architect, email=azimuth@maine.rr.com, c=US
Date: 2015.01.09 15:23:09 -05'00'

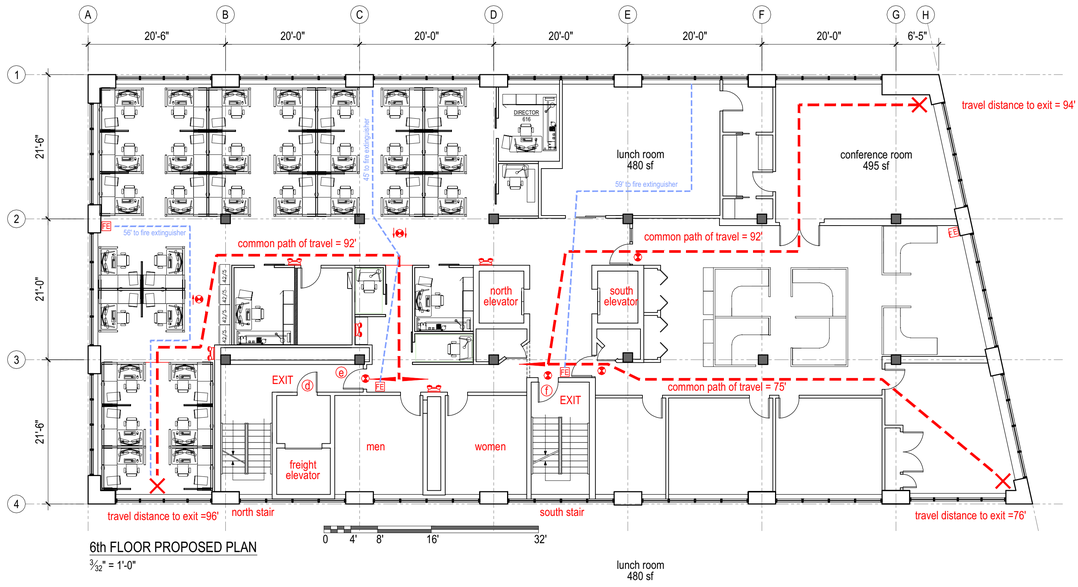
Title: Architect

Firm: Azimuth LLC

Address: 12 Channel View Road
Cape Elizabeth, ME 04107

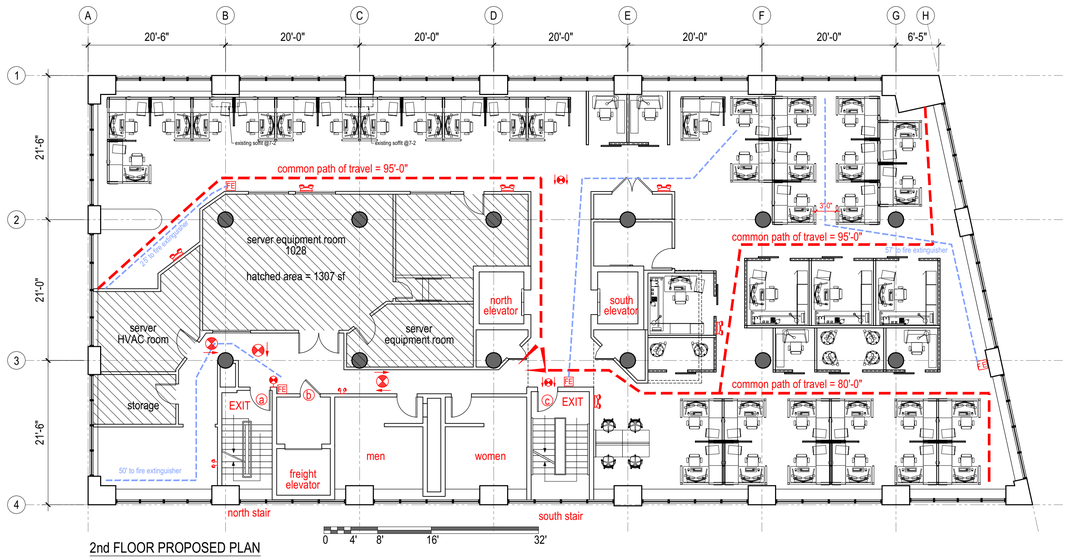
Phone: 207 318 3234

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



6th FLOOR PROPOSED PLAN

3/32" = 1'-0"



2nd FLOOR PROPOSED PLAN

3/32" = 1'-0"

Existing Doors, both floors:

mark	size	label	notes
a	3-0 x 7-0	1½ hours	4"x25" wired glass vision panel
b	3-0 x 6-8	1½ hours	flush
c	3-0 x 7-0	1½ hours	4"x25" wired glass vision panel
d	3-0 x 7-0	1½ hours	flush
e	3-0 x 6-8	1½ hours	flush
f	3-0 x 7-0	1½ hours	4"x25" wired glass vision panel

emergency lighting

exit sign with direction of travel arrows indicated

NOTE:
existing exit stair enclosure shafts are concrete block construction. The fire rating is a minimum of 1 hour and may be 2 hour, depending the thickness of block used.

Applicable Building Codes:

Maine Uniform Energy and Building Code
Portland City Code, Chapter 10 Fire Prevention and Protection
NFPA 101 Life Safety Code
IBC 2009 (International Building Code)

Existing Building:

(6) story office building, single tenant

Sprinkler System:

The existing building appears to be fully sprinklered. Modifications to the design of the existing system and installation shall be performed by a Maine Licensed Sprinkler Contractor as required by the State of Maine and the City of Portland

Code Highlights:

Both NFPA and IBC referenced. Code cited is either most stringent or both codes agree. See attached code review for specific details

Occupancy (no change in existing occupancy)

NFPA 1: Section 20.13, Business Occupancies
NFPA 101: Existing Business Occupancy, Chapter 39
IBC: Business Group B Section 304

Classification of Work

IEBC Section 404: Alteration-Level 2

NFPA Table A.7.6 Common Path, Dead-End, and Travel Distance Limits (by occupancy)

Building is fully sprinklered

Common Path of Travel:	100' maximum
Travel Distance to Exit:	300' maximum
Dead End Corridor: (NA)	050' maximum

Occupant load

NFPA Table 7.3.1.2

6th Floor:
gross floor area 8171 sf
net area at 1 per 15 = 975 sf = 65 occupants
(assembly at lunch room and board room)
gross area at 1 per 100 = 8171-975 =71 occupants (business)
total 6th floor occupant load = 65+71 = 136 occupants

2nd Floor
gross floor area 8112 sf
gross floor area at 1 per 300 = 1028 sf = 3 occupants (mechanical)
gross area at 1 per 100 = 8112-1028=70 occupants (business)
total 2nd floor occupant load = 3+70 = 73 occupants

Widths required for egress

passageways:	44" (IBC 1005.1)	occupant load < 220
aisles (IBC Group B)	36" (IBC 1017.2)	occupant load < 180

Extinguishments Requirements. (NFPA 39.3.5)

NFPA 10 Table 6.2.1.1
Fire Extinguisher Size and Placement for Class A Hazards

Light (low) hazard occupancy

Minimum rated extinguisher	2-A
Maximum floor area per unit A	3000sf
Maximum floor area per exitinguisher:	11,250 sf
maximum travel distance to an extinguisher:	75'
floor area for calculation purpose:	8400 sf
area per extinguisher	2100 sf
minimum size extinguisher per location	2-A

Extinguishers provided at each station:

Dry Chemical Fire Exitnguisher
Classification 4-A80-B:C
tested to ANSI/UL 711 & ANSI/IUL 299
with bracket required by manufacturer

Inspection Division
Date: 02/05/15

LICENSED ARCHITECT
JOSEF CHALAT
AR2354
STATE OF MAINE

Architect:
Josef Chalat, Architect
327 Ocean House Road
Cape Elizabeth, Maine 04107
ph: (207) 318-3234
e: azimuth@maine.rr.com

Planning and Interior Design:
Lisa Whited
Whited Planning and Design
ph: (2017) 329-2189
lwhited@maine.rr.com

Gretchen Boulos NCIDQ
Boulos Commercial Design
ph: (207) 749 1795
gretchen@bouloscommercialdesign.com

Mechanical Engineering:
Bennet Engineering
contact: Cat Tranberg
ph (207) 865-9475
Cat@bennettengineering.net

General Contractor:
Zachau Construction
1185 U.S. Route One
Freeport, ME 04032
ph (207) 865-9925 (office)
contact: Jon
(207) 807-8980 (mobile)
Jon@zachauconstruction.com

Project:
MEMIC 261 Commercial Street
2nd & 6th floor Tenant Improvements

Tenant:
MEMIC
261 Commercial Street
(19 Cross Street)
Portland Maine, 04101

Tenant Contact
Catherine Lamson,
Senior Vice President
Chief Administrative Officer
(207) 791 3304

Building Owner:
Casco View Holdings II, LLC
PO Box 1137
Portland, ME 04104

City of Portland Information:
CBL 038 F019
Tax acct no. 51170

Date: 01-07-2015
Purpose:
Fast Track Construction Permit
City of Portland, Maine

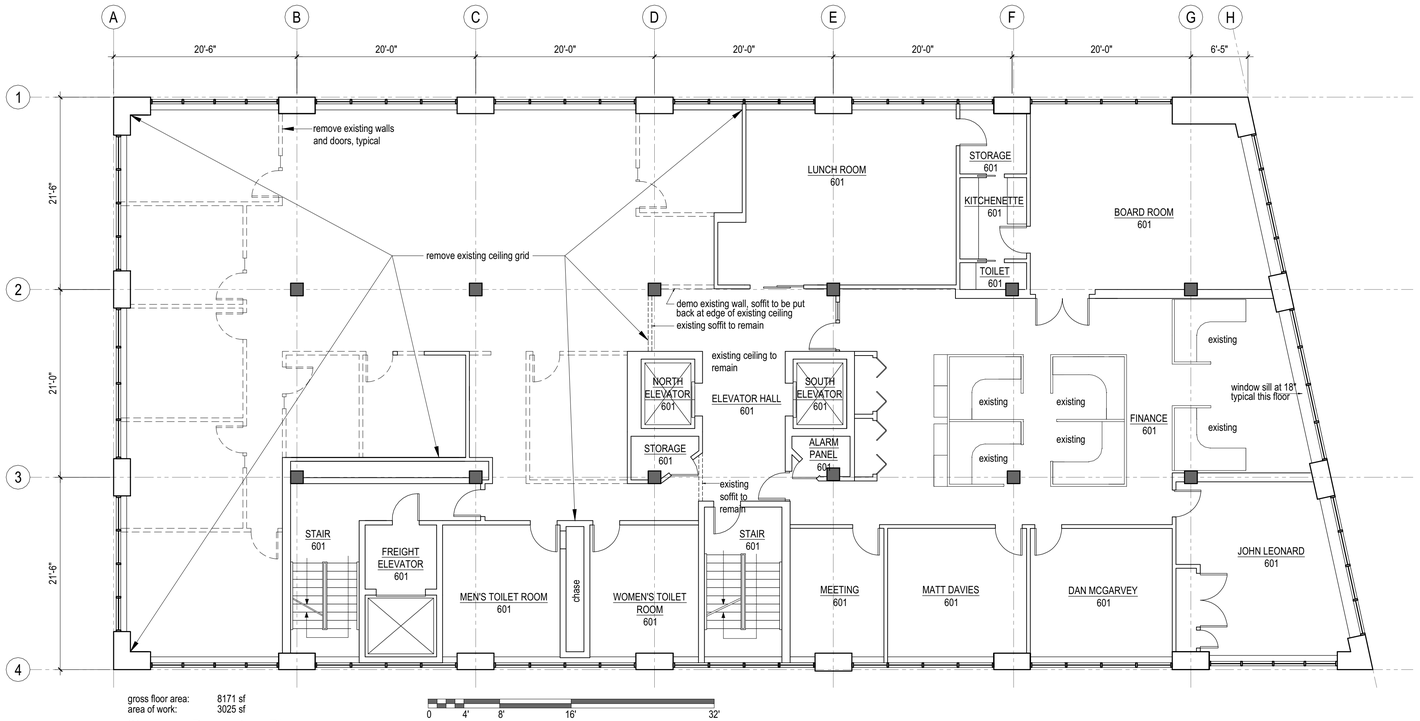
Revisions

Sheet Title

code review

Sheet Number

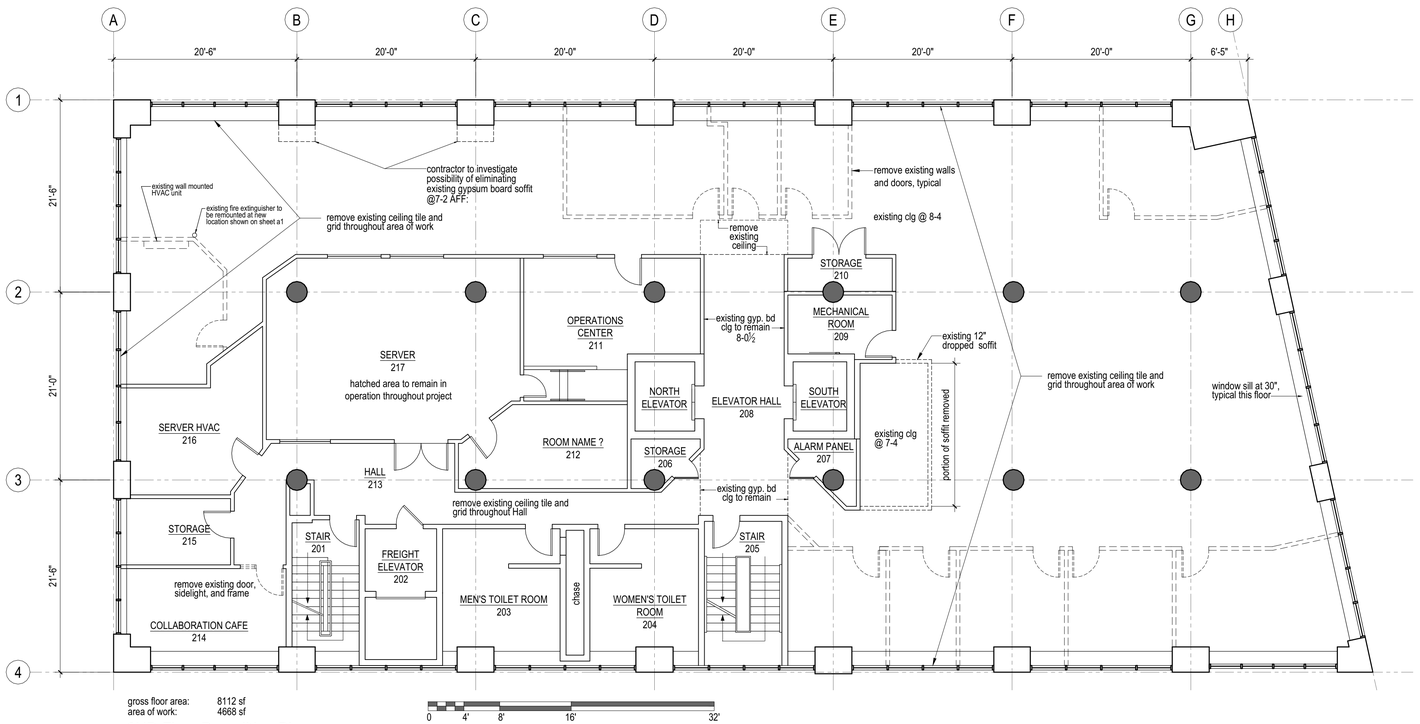
cr1



gross floor area: 8171 sf
area of work: 3025 sf

6th Floor Demolition Plan

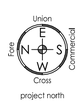
1/8" = 1'-0"



gross floor area: 8112 sf
area of work: 4668 sf

2ND Floor Demolition Plan

1/8" = 1'-0"



project north

Demolition Notes

Submittals

1. Provide owner with demolition schedule that minimize disturbances and interruptions to the owner's onsite operations. The schedule shall indicate interruptions of utility services, use and protection of elevator and stairs, locations of partitions for dust and noise control, and path of waste removal from building

Quality

2. Comply with applicable EPA notification regulation before starting selective demolition. Comply with ANSI A10.6 Safety Requirements for Demolition Operations, and NFPA 241: Standard for Safeguarding Construction, Alteration, and Demolition Operations

Project Conditions and Requirements

3. The owner will occupy areas of the building adjacent to the areas of demolition. Conduct the work in a manner that provides minimal disruption to the owners operations
4. The demolition plan is intended to be a schematic guide for removing existing assemblies, structures and materials as required for the new work to be installed. It is not intended to be exhaustive in detail. The contractor shall be familiar with the work of the project and remove all items as required by the work
5. Remove all construction assemblies, materials, finishes, mechanical and electrical items necessary for the completion of the work as depicted on the drawings, specifications, and supplementary instructions. Refer to mechanical and electrical drawings for additional information on demolition of those items.
6. The removal disposal and associated fees of all demolished items shall be the responsibility of the General Contractor.
7. All removed items, debris and salvage shall be the property of the General contractor unless noted otherwise in the drawings or by the Owner.
8. Demolition may uncover existing conditions, structures or assemblies that were not foreseen by the Architect or owner. The contractor shall bring to the attention of the Architect any existing conditions that are discovered that will affect the scope or design of the project
9. The Contractor shall restore any fire rated assemblies damaged by the demolition process to their required rating
10. The contractor shall identify any pre-existing damage to fire rated walls, floors, ceilings and columns. The Architect will coordinate with the General Contractor to develop a plan to restore the continuity of rated assemblies
11. The Contractor shall protect finishes, assemblies and structures not required to be demolished or that are outside the area of work.
12. The contractor shall control dust, noise and vibration, to protect the
13. The contractor shall provide shoring and temporary support of existing structural members that the work requires.
14. materials to be removed and reused, such as light fixtures and other electrical equipment, doors, and plumbing fixtures, shall be stored and protected from damage by ongoing construction activities
15. Maintain and ensure safe passage of building occupants around and trough areas of demolition.

Hazardous Materials

16. If the Contractor suspects that hazardous materials such asbestos containing materials (ACM), lead based paint, polychlorinated biphenyl, (PCB) and petroleum products are present he shall not disturb the material and notify the owner's representative.
17. Fluorescent lights shall be handled and disposed of properly to prevent the release of mercury vapor

Floor Specific Notes:
6TH FLOOR:

1. The following existing items shall be reused
   1.1. light fixtures
   1.2. door and hardware at existing telephone room
2. Existing carpet tiles in the existing open office area shall remain. Protect carpet with continuous panels taped at seams
3. The existing carpet tiles in the offices shall remain if they are on a continuous grid with the tiles in the open office area.

2ND FLOOR

1. All flooring, ceiling tiles, light fixtures within the work area shall be removed

Inspections Division
Date: 02/05/15

LICENSED ARCHITECT
JOSEF CHALAT AR2354
STATE OF MAINE

Architect:
Josef Chalat, Architect
327 Ocean House Road
Cape Elizabeth, Maine 04107
ph: (207) 318-3234
e: azimuth@maine.rr.com

Planning and Interior Design:
Lisa Whited
Whited Planning and Design
ph: (2017) 329-2189
lwhited@maine.rr.com

Gretchen Boulos NCIDQ
Boulos Commercial Design
ph: (207) 749 1795
gretchen@bouloscommercialdesign.com

Mechanical Engineering:
Bennet Engineering
contact: Cat Tranberg
ph (207) 865-9475
Cat@bennettengineering.net

General Contractor:
Zachau Construction
1185 U.S. Route One
Freeport, ME 04032
ph (207) 865-9925 (office)
contact: Jon
(207) 807-8980 (mobile)
Jon@zachauconstruction.com

Project:
MEMIC 261 Commercial Street
2nd & 6th floor Tenant Improvements

Tenant:
MEMIC
261 Commercial Street
(19 Cross Street)
Portland Maine, 04101

Tenant Contact
Catherine Lamson,
Senior Vice President
Chief Administrative Officer
(207) 791 3304

Building Owner:
Casco View Holdings II, LLC
PO Box 1137
Portland, ME 04104

City of Portland Information:
CBL 038 F019
Tax acct no. 51170

Date: 01-07-2015
Purpose:
Fast Track Construction Permit
City of Portland, Maine

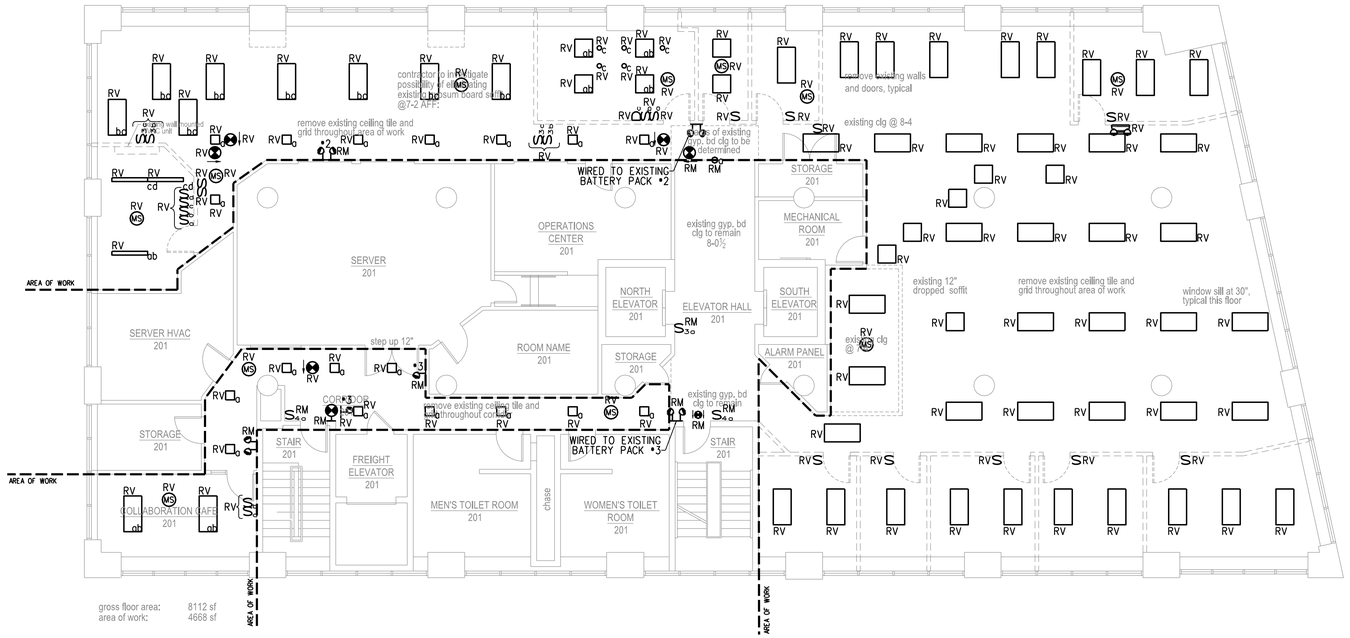
Revisions

Sheet Title

demolition floor plans

Sheet Number

d1



SECOND FLOOR LIGHTIING DEMO PLAN

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

WP DENOTES WEATHERPROOF CONSTRUCTION
RP DENOTES EXISTING ELECTRICAL EQUIPMENT TO BE REPLACED
RM DENOTES EXISTING ELECTRICAL EQUIPMENT TO REMAIN
RL DENOTES EXISTING ELECTRICAL EQUIPMENT TO BE RELOCATED
RV DENOTES EXISTING ELECTRICAL EQUIPMENT TO BE REMOVED

SIXTH FLOOR LIGHTING DEMO PLAN

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

WP DENOTES WEATHERPROOF CONSTRUCTION
RP DENOTES EXISTING ELECTRICAL EQUIPMENT TO BE REPLACED
RM DENOTES EXISTING ELECTRICAL EQUIPMENT TO REMAIN
RL DENOTES EXISTING ELECTRICAL EQUIPMENT TO BE RELOCATED
RV DENOTES EXISTING ELECTRICAL EQUIPMENT TO BE REMOVED

GENERAL NOTES

1. ALL SIXTH FLOOR LIGHTING FIXTURES LOCATED WITHIN THE AREA OF WORK SHALL BE REMOVED AND SAFELY STORED FOR RE-INSTALLATION DURING CONSTRUCTION.

FOR PERMITTING

BENNETT ENGINEERING
MECHANICAL • ELECTRICAL
(207) 865-9475

7 BENNETT RD
PO BOX 297
FREEPORT, ME

STATE OF MAINE STEVEN A. JOHNSON #5068 LICENSED PROFESSIONAL ENGINEER

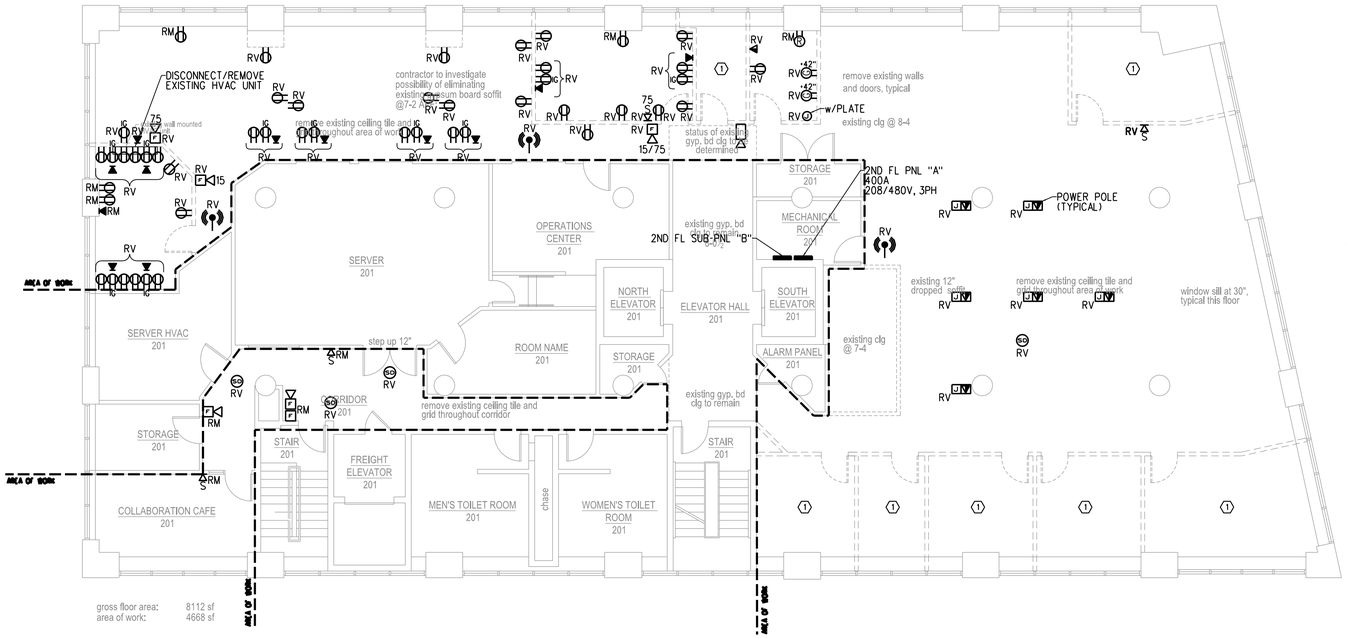
PROJECT
MEMIC
261 COMMERCIAL STREET
FLOOR 2 & FLOOR 6
PORTLAND, ME 04101

REVISION NO.	DATE

TITLE
LIGHTING DEMO PLAN

SCALE	AS NOTED	DRWN	CAT	CHK	SAJ
DATE	01.07.2015				

DRAWING NO.
DE-1



SECOND FLOOR POWER DEMO PLAN

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

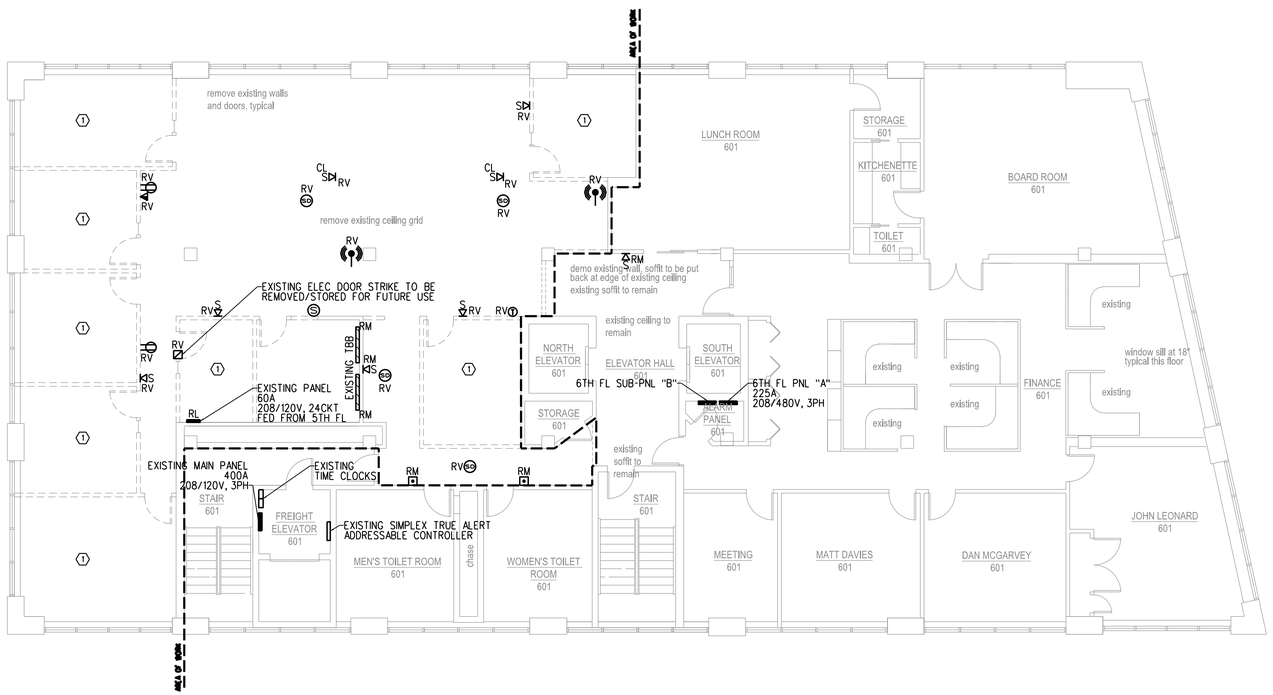
WP DENOTES WEATHERPROOF CONSTRUCTION
RP DENOTES EXISTING ELECTRICAL EQUIPMENT TO BE REPLACED
RM DENOTES EXISTING ELECTRICAL EQUIPMENT TO REMAIN
RL DENOTES EXISTING ELECTRICAL EQUIPMENT TO BE RELOCATED
RV DENOTES EXISTING ELECTRICAL EQUIPMENT TO BE REMOVED

GENERAL NOTES

1. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS.
2. CEILING MOUNTED SECURITY, TELCOMM AND SOUND MASKING SYSTEM DEVICES SHALL BE REMOVED AND STORED FOR REINSTALLATION DURING CONSTRUCTION.

WORK NOTES

(1) CONTRACTOR SHALL REMOVE ALL EXISTING POWER DEVICES LOCATED ON WALLS BEING REMOVED DURING DEMOLITION.



SIXTH FLOOR POWER DEMO PLAN

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

WP DENOTES WEATHERPROOF CONSTRUCTION
RP DENOTES EXISTING ELECTRICAL EQUIPMENT TO BE REPLACED
RM DENOTES EXISTING ELECTRICAL EQUIPMENT TO REMAIN
RL DENOTES EXISTING ELECTRICAL EQUIPMENT TO BE RELOCATED
RV DENOTES EXISTING ELECTRICAL EQUIPMENT TO BE REMOVED

GENERAL NOTES

1. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS.
2. CEILING MOUNTED SECURITY, TELCOMM AND SOUND MASKING SYSTEM DEVICES SHALL BE REMOVED AND STORED FOR REINSTALLATION DURING CONSTRUCTION.

WORK NOTES

(1) CONTRACTOR SHALL REMOVE ALL EXISTING POWER DEVICES LOCATED ON WALLS BEING REMOVED DURING DEMOLITION.

Inspection Division
Date: 02/05/15

BENNETT ENGINEERING
MECHANICAL • ELECTRICAL
(207) 865-9475

7 BENNETT RD
PO BOX 297
FREEPORT, ME

STATE OF MAINE — STEVEN A. JOHNSON — 10068 — LICENSED PROFESSIONAL ENGINEER

PROJECT
MEMIC
261 COMMERCIAL STREET
FLOOR 2 & FLOOR 6
PORTLAND, ME 04101

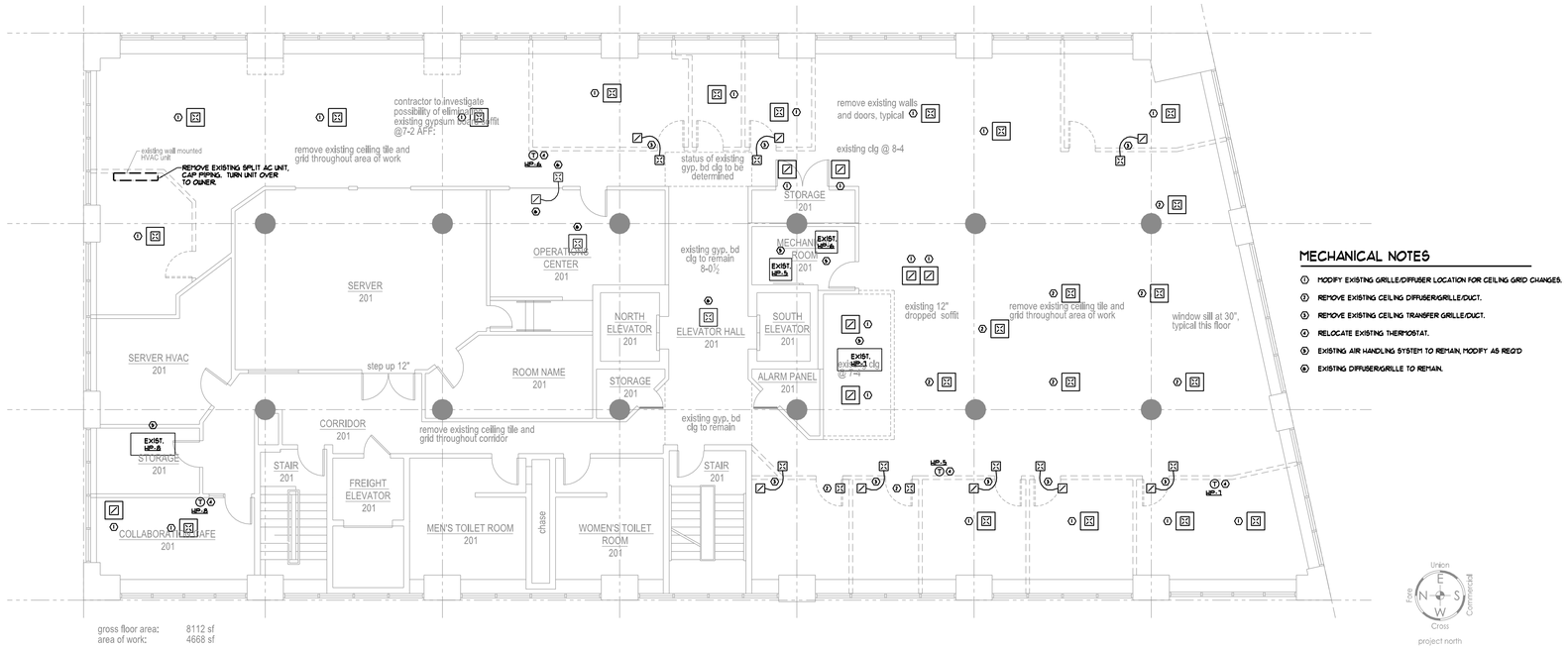
REVISION NO.	DATE

TITLE
POWER DEMO PLAN

SCALE	AS NOTED	DRWN	CAT
DATE	01.07.2015	CHK	SAJ

DRAWING NO.
DE-2

FOR PERMITTING



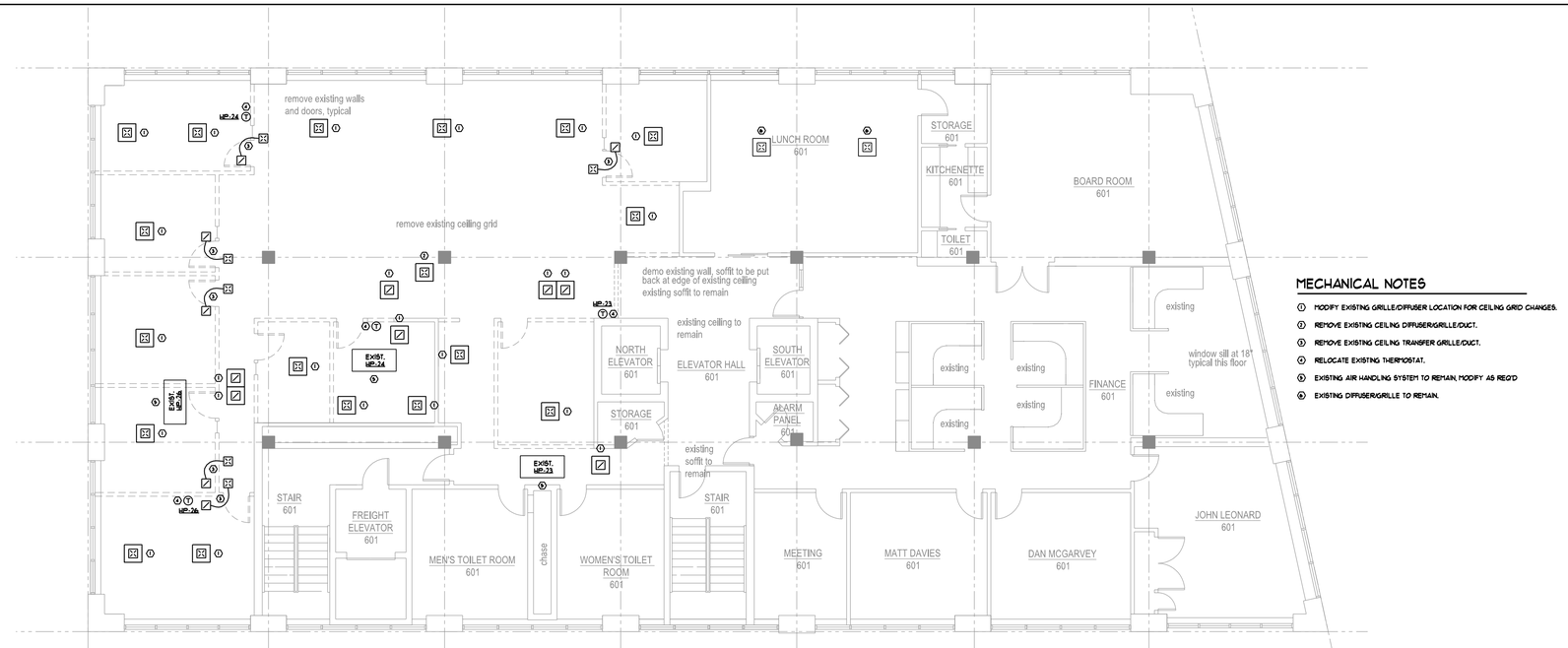
gross floor area: 8112 sf
area of work: 4668 sf

MECHANICAL NOTES

1. MODIFY EXISTING GRILLE/DIFFUSER LOCATION FOR CEILING GRID CHANGES.
2. REMOVE EXISTING CEILING DIFFUSER/GRILLE/DUCT.
3. REMOVE EXISTING CEILING TRANSFER GRILLE/DUCT.
4. RELOCATE EXISTING THERMOSTAT.
5. EXISTING AIR HANDLING SYSTEM TO REMAIN, MODIFY AS REQ'D
6. EXISTING DIFFUSER/GRILLE TO REMAIN.

SECOND FLOOR DEMO PLAN

SCALE 1/8" = 1'-0"



MECHANICAL NOTES

1. MODIFY EXISTING GRILLE/DIFFUSER LOCATION FOR CEILING GRID CHANGES.
2. REMOVE EXISTING CEILING DIFFUSER/GRILLE/DUCT.
3. REMOVE EXISTING CEILING TRANSFER GRILLE/DUCT.
4. RELOCATE EXISTING THERMOSTAT.
5. EXISTING AIR HANDLING SYSTEM TO REMAIN, MODIFY AS REQ'D
6. EXISTING DIFFUSER/GRILLE TO REMAIN.

SIXTH FLOOR DEMO PLAN

SCALE 1/8" = 1'-0"

PROGRESS PRINT
NOT FOR CONSTRUCTION

BENNETT ENGINEERING
MECHANICAL • ELECTRICAL
(207) 865-9475

7 BENNETT RD
PO BOX 297
FREEPORT, ME

STATE OF MAINE
STEPHEN P. MARK
No. 3807
REGISTERED PROFESSIONAL ENGINEER

PROJECT
MEMIC
261 COMMERCIAL STREET
FLOOR 2 & FLOOR 6
PORTLAND, ME 04101

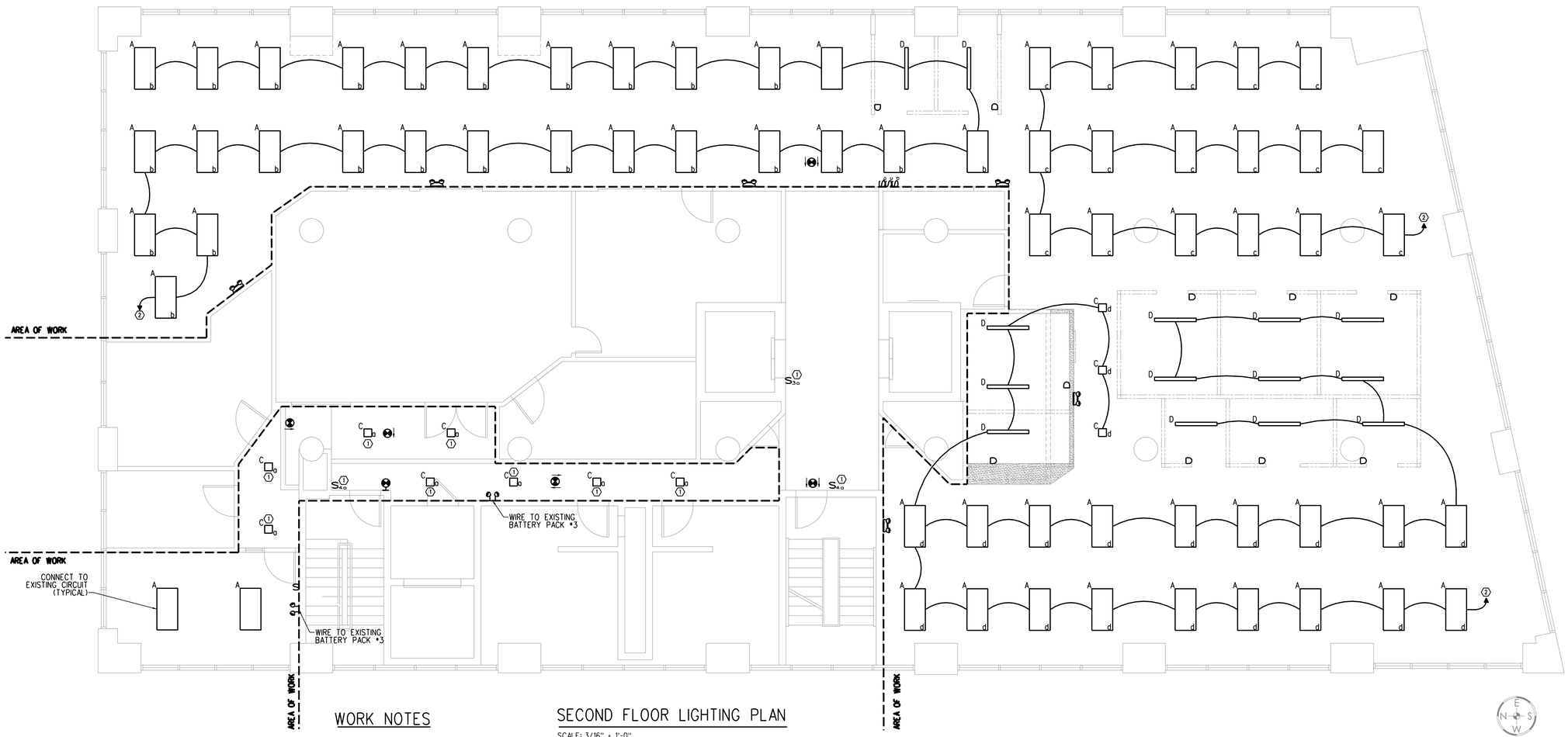
REVISION NO.	DATE

TITLE
MECHANICAL DEMO PLANS

SCALE AS NOTED
DATE 01.07.2015
DRWN SMR CHK SPD

DRAWING NO.
DM-1

FOR PERMITTING



WORK NOTES

1. CONTRACTOR SHALL CONNECT NEW LIGHTING FIXTURE TO EXISTING CIRCUIT AND SWITCH.
2. CONTRACTOR SHALL CONNECT LIGHTING TO NEW 20A, 1-POLE CIRCUIT BREAKER WITHIN EXISTING POWER PANEL P21 AS INDICATED. NO CIRCUIT SHALL BE LOADED BEYOND 14 AMPERES AT 120V.

SECOND FLOOR LIGHTING PLAN

SCALE: 3/16" = 1'-0"

BENNETT ENGINEERING
MECHANICAL • ELECTRICAL
(207) 865-9475

7 BENNETT RD
PO BOX 297
FREEPORT, ME

STATE OF MAINE — STEVEN A. JOHNSON — #5068 — LICENSED PROFESSIONAL ENGINEER

PROJECT
MEMIC
261 COMMERCIAL STREET
FLOOR 2 & FLOOR 6
PORTLAND, ME 04101

REVISION NO.	DATE

TITLE
2nd FLOOR LIGHTING PLAN

SCALE	AS NOTED	DRWN	CAT	CHK	SAJ
DATE	01.07.2015				

DRAWING NO.
E-1

FOR PERMITTING

6th Floor Plan
3/16"= 1'-0"

WORK NOTES

1. CONTRACTOR SHALL CONNECT NEW LIGHTING FIXTURES TO EXISTING CIRCUITS AND SWITCHING UNLESS SHOWN OTHERWISE.

SIXTH FLOOR LIGHTING PLAN

SCALE: 3/16" = 1'-0"

BENNETT ENGINEERING
MECHANICAL • ELECTRICAL
(207) 865-9475

7 BENNETT RD
PO BOX 297
FREEPORT, ME

STATE OF MAINE · STEVEN JOHNSON · 8466 · LICENSED PROFESSIONAL ENGINEER

PROJECT
MEMIC
261 COMMERCIAL STREET
FLOOR 2 & FLOOR 6
PORTLAND, ME 04101

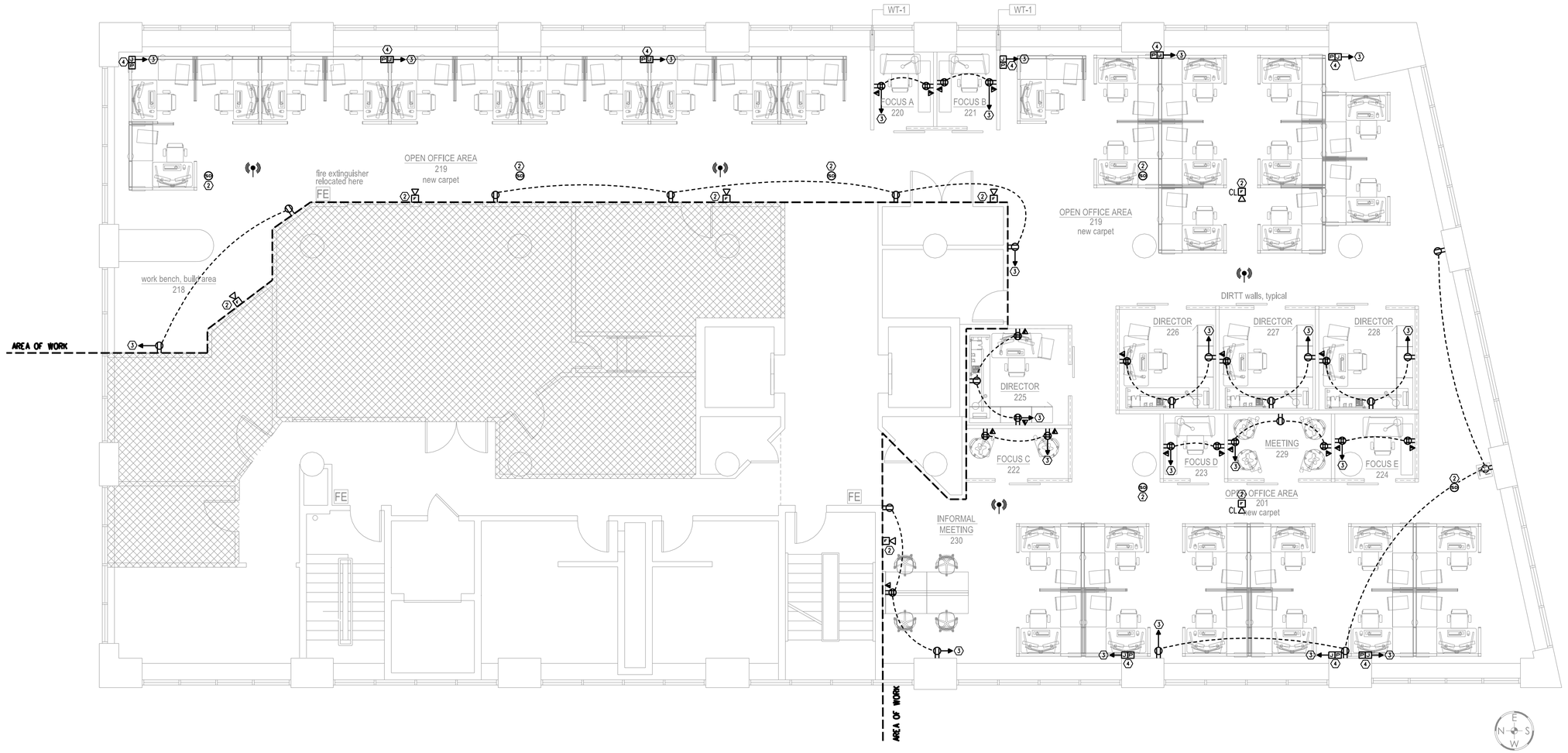
REVISION NO.	DATE

TITLE
6TH FLOOR LIGHTING PLAN

SCALE	AS NOTED	DRWN	CAT	CHK	SAJ
DATE	01.07.2015				

DRAWING NO.
E-2

FOR PERMITTING



GENERAL NOTES

1. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS.

2. CONTRACTOR SHALL COORDINATE ALL POWER/DATA LOCATIONS WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN.

WORK NOTES

1. NOT USED
2. CONTRACTOR SHALL CONNECT NEW FIRE ALARM DEVICES TO EXISTING SIMPLEX SYSTEM PER MANUFACTURER'S SPECIFICATIONS.
3. CONTRACTOR SHALL CONNECT POWER RECEPTACLES TO NEW 20A BRANCH CIRCUIT RUN TO EXISTING RELOCATED PANEL IN ELEV FREIGHT RM 601. NO CIRCUIT SHALL BE LOADED BEYOND 14 AMPERES AT 120 VOLTS.
4. CONTRACTOR SHALL PROVIDE WALL MOUNTED JUNCTION BOX AND (2) 4-PORT DATA RECEPTS ALONG WITH (1) CIRCUIT TO CONNECT INTO BASE INFEED OF FURNITURE SYSTEM. COORDINATE WITH FURNITURE CONTRACTOR FOR FINAL CONNECTIONS.

SECOND FLOOR POWER PLAN

SCALE: 3/16" = 1'-0"

BENNETT ENGINEERING
MECHANICAL • ELECTRICAL
(207) 865-9475

7 BENNETT RD
PO BOX 297
FREEPORT, ME

STATE OF MAINE — STEVEN JOHNSON — #5408 — LICENSED PROFESSIONAL ENGINEER

PROJECT
MEMIC
261 COMMERCIAL STREET
FLOOR 2 & FLOOR 6
PORTLAND, ME 04101

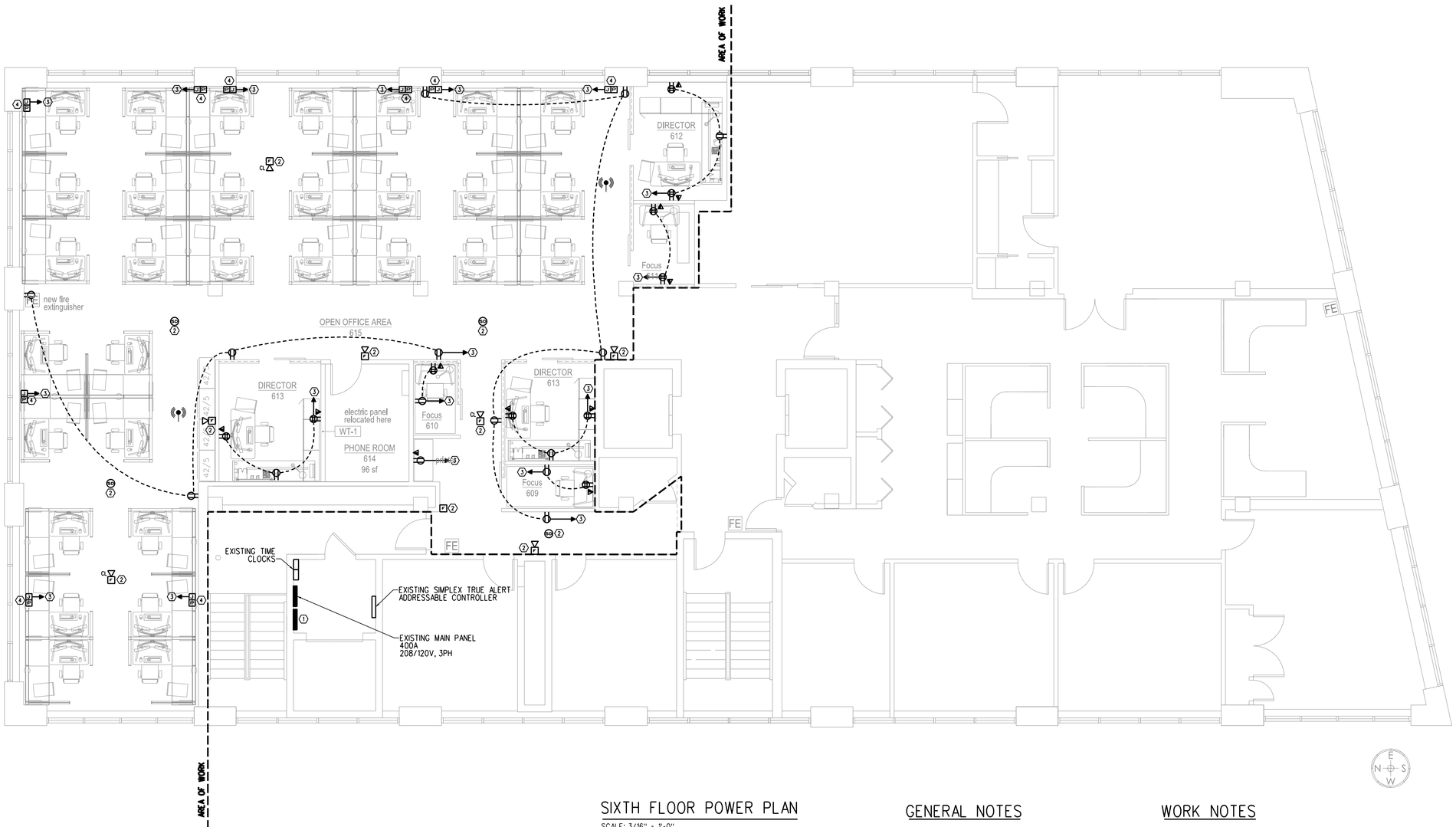
REVISION NO.	DATE

TITLE
2nd FLOOR POWER PLAN

SCALE AS NOTED | DRWN CAT | CHK SAJ
DATE 01.07.2015

DRAWING NO.
E-3

FOR PERMITTING



SIXTH FLOOR POWER PLAN

SCALE: 3/16" = 1'-0"

GENERAL NOTES

1. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS.

2. CONTRACTOR SHALL COORDINATE ALL POWER/DATA LOCATIONS WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN.

3. ALL CEILING MOUNTED "WHITE NOISE" DEVICES ASSOCIATED WITH SOUND MASKING SYSTEM SHALL BE REINSTALLED AT SAME LOCATION PER MANUFACTURER'S SPECIFICATIONS.

WORK NOTES

1. CONTRACTOR SHALL RELOCATE EXISTING 60A, 208/120V, 24 CKT PANEL FROM FILE ROOM 612 TO FREIGHT ELEVATOR ROOM 601.RECONNECT FEED FROM EXISTING PANEL LOCATED ON THE FIFTH FLOOR REFER TO ELECTRICAL DEMO SHEET DE-2 FOR MORE INFORMATION.

2. CONTRACTOR SHALL CONNECT NEW FIRE ALARM DEVICES TO EXISTING SIMPLEX SYSTEM PER MANUFACTURER'S SPECIFICATIONS.

3. CONTRACTOR SHALL CONNECT POWER RECEPTACLES TO NEW 20A BRANCH CIRCUIT RUN TO EXISTING RELOCATED PANEL IN ELEV FREIGHT RM 601.NO CIRCUIT SHALL BE LOADED BEYOND 14 AMPERES AT 120 VOLTS.

4. CONTRACTOR SHALL PROVIDE JUNCTION BOX AND (1) CIRCUIT TO CONNECT INTO BASE INFEED OF FURNITURE SYSTEM.COORDINATE WITH FURNITURE CONTRACTOR FOR FINAL CONNECTIONS.

BENNETT ENGINEERING
MECHANICAL • ELECTRICAL
(207) 865-9475

7 BENNETT RD
PO BOX 297
FREEPORT, ME

STATE OF MAINE · STEVEN A. JOHNSON · 8468 · LICENSED PROFESSIONAL ENGINEER

Inspections Division
Date: 02/05/15

PROJECT

MEMIC

261 COMMERCIAL STREET
FLOOR 2 & FLOOR 6
PORTLAND, ME 04101

REVISION NO.	DATE

TITLE: 6TH FLOOR POWER PLAN

SCALE	AS NOTED	DRWN	CAT	CHK	SAJ
DATE	01.07.2015				

DRAWING NO.

E-4

FOR PERMITTING

GENERAL NOTES

1. NOT ALL SYMBOLS INDICATED IN THE LEGEND APPEAR ON THE DRAWINGS. COORDINATE WORK ACCORDINGLY. COMPLY WITH SPECIFICATIONS AND NOTES BELOW AS APPLICABLE.

2. ALL RECEPTACLES SHALL BE INSTALLED 18" AFF TO CENTERLINE OF BOX UNLESS NOTED OTHERWISE.

3. ALL WIRING SHALL BE COPPER UNLESS DESIGNATED AS "AL". UNLESS OTHERWISE NOTED ALL WIRING SHALL BE 2•12 AWG AND 1•12 EQUIPMENT GROUNDING CONDUCTOR. HOMERUNS FED FROM A 20A-1P, 120V CIRCUIT IN EXCESS OF 70' SHALL BE •10 AWG.

4. CONNECT BATTERY BACKED EMERGENCY AND EXIT LIGHTING TO NEAREST LIGHTING CIRCUIT AHEAD OF ANY SWITCHING. CONNECT REMOTE HEADS WITH •10 AWG COPPER CONDUCTORS. AC EXIT FIXTURES SHALL BE CONNECTED TO NEAREST EMERGENCY CIRCUIT OR AS INDICATED.

5. TEST ALL EMERGENCY LIGHTING UNITS FOR PROPER OPERATION OF LAMPS AND BATTERIES.

6. SEE MECHANICAL PLAN FOR HVAC UNITS, PUMPS AND FANS CONTROLLED BY THERMOSTATS (PROVIDED BY ATC CONTRACTOR).

7. FUSES AND OVERLOAD UNITS FOR MOTORS SHALL BE SIZED BASED ON ACTUAL MOTOR NAMEPLATE DATA AND IN ACCORDANCE WITH NEC. CIRCUIT BREAKERS FOR MOTORS ARE SUPPLIED AT MAX VALUE PER NEC (2.5 x FLA). SIZE IN THE FIELD IN ACCORDANCE WITH MFGR RECOMMENDATION.

8. ALL WORK SHALL COMPLY WITH NFPA70, NFPA72, NFPA101 & ALL FEDERAL, STATE & LOCAL REGULATIONS.

9. ALL PENETRATIONS THROUGH FLOORS, RATED WALLS AND PARTITIONS SHALL BE SEALED WITH UL APPROVED FIRE SEALANT MATERIAL TO MAINTAIN FIRE RATING FOR THE SEPARATION.

10. ALL ENCLOSURES, CONDUIT BODIES AND THEIR COVERS CONTAINING FIRE ALARM SYSTEM CONDUCTORS SHALL BE PAINTED RED.

11. AN EQUIPMENT GROUNDING CONDUCTOR SHALL BE INSTALLED WITH ALL FEEDERS AND BRANCH CIRCUITS. SIZE IN ACCORDANCE WITH NFPA 70 ARTICLE 250.

12. PROVIDE TWO BALLASTS FOR EACH FIXTURE INDICATED AS REQUIRING DUAL LEVEL SWITCHING. ONE BALLAST TO CONTROL OUTER LAMPS AND THE SECOND BALLAST TO CONTROL INNER LAMP(S).

13. COORDINATE INSTALLATION OF VOICE/DATA OUTLETS WITH OWNER, MIS OR COMMUNICATIONS CONTRACTOR.

14. LOCATE DISCONNECTS AT EQUIPMENT AS REQUIRED BY MANUFACTURER. LOCATIONS ON DRAWINGS ARE APPROXIMATE.

15. PROVIDE RISER OR PLENUM RATED CABLES ABOVE SUSPENDED CEILINGS.

16. ALL CONDUCTOR INSULATION FOR BUILDING WIRE SHALL BE THWN/THHN UNLESS NOTED OTHERWISE.

17. OUTLETS INSTALLED IN FIRE RATED WALLS BACK TO BACK SHALL BE SEPARATED BY 24" MINIMUM OR BE PROTECTED WITH "PUTTY PADS" PER 2009 INTERNATIONAL BUILDING CODE SECTION 713.3.2

18. MINIMUM WIRE SIZE ON ALL BRANCH CIRCUITS SHALL BE •12.

ABBREVIATIONS

A	AMP
AC	ALTERNATING CURRENT, ABOVE COUNTER
ADA	AMERICANS WITH DISABILITIES ACT
AF	AMP FRAME
AFCI	ARC FAULT CIRCUIT INTERRUPTER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AMPERES INTERRUPTING CAPACITY
AL	ALUMINUM
AT	AMP TRIP
ATC	AUTOMATIC TEMPERATURE CONTROL
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BLDG	BUILDING
C	CONDUIT
CB	CIRCUIT BREAKER
CI	CAST IRON
CKT	CIRCUIT
℄	CENTERLINE
CMP	CENTRAL MAINE POWER (ELECTRIC UTILITY)
CMU	CONCRETE MASONRY UNIT
CT	CURRENT TRANSFORMER
CONC	CONCRETE
CS	CARBON STEEL
CU	COPPER
CUH	CABINET UNIT HEATER
DL	DAMP LOCATION
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
ER	EXISTING REMAINS IN PLACE
ERL	EXISTING RELOCATE
ERM	EXISTING REMOVE
EUH	ELECTRIC UNIT HEATER
EWC	ELECTRICAL WATER COOLER
FACP	FIRE ALARM CONTROL PANEL
FAPS	FIRE ALARM PULL STATION
FRP	FIBER REINFORCED PLASTIC
FVNR	FULL VOLTAGE, NON-REVERSING
FWU	FURNISHED WITH UNIT
DC	DIRECT CURRENT
GFI	GROUND FAULT INTERRUPTER
GND	GROUND
HID	HIGH INTENSITY DISCHARGE
HOA	HAND-OFF-AUTOMATIC
HP	HORSEPOWER
HPS	HIGH PRESSURE SODIUM
HZ	HERTZ
ICB	INSULATED CASE CIRCUIT BREAKER
JB	JUNCTION BOX
KAIC	THOUSAND AMP INTERRUPTING CAPACITY
KCMIL	THOUSAND CIRCULAR MIL
KV	THOUSAND VOLTS
KVA	THOUSAND VOLT-AMPS
KW	THOUSAND WATTS (KILOWATT)
LC	LIGHTING CONTACTORS
LCP	LATERAL CONTROL PIT
LED	LIGHT EMITTING DIODE
LP	LIGHTING PANELBOARD
LTG	LIGHTING
LSIG	LONG TIME, SHORT TIME, INSTANTANEOUS, GROUND FAULT CIRCUIT BREAKER TRIP FUNCTIONS AS INDICATED
MCC	MOTOR CONTROL CENTER
MCCB	MOLDED CASE CIRCUIT BREAKER
MCB	MAIN CIRCUIT BREAKER
MDP	MAIN DISTRUBITION PANEL
MH	MANHOLE
MLO	MAIN LUGS ONLY
MTS	MANUAL TRANSFER SWITCH
NC	NORMALLY CLOSED OF NURSE CALL
NEC	NATIONAL ELECTRICAL CODE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NL	NIGHT LIGHT
NO	NORMALLY OPEN
NO.	NUMBER
OL	OVERLOAD
P	POLE
PA	PUBLIC ADDRESS
PB	PUSH BUTTON
PF	POWER FACTOR
PH	PHASE
PNL	PANEL
TP1-2	TELE-POWER POLE - POLE AND CIRCUIT NUMBER AS INDICATED
PSNH	PUBLIC SERVICE OF NEW HAMPSHIRE (ELECTRIC UTILITY)
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE
RL	ELECTRICAL EQUIPMENT TO BE RELOCATED
RM	ELECTRICAL EQUIPMENT TO REMAIN
RSC	RIGID STEEL CONDUIT
RTU	ROOF TOP UNIT
RV	ELECTRICAL EQUIPMENT TO REMOVE
RVNR	REDUCED VOLTAGE, NON-REVESING
SB	SMART BOARD
SF	SUPPLY FAN
SLD	SINGLE LINE DIAGRAM
SM	MANUAL MOTOR STARTER SWITCH WITH THERMAL OVERLOAD DEVICE, MOUNTED AT UNIT
SS	SOLID STATE
SWBD-1	SWITCHBOARD NUMBER AS DESIGNATED
TC	TIME CLOCK
TS	TRANSFER SWITCH
T&B	TOP AND BOTTOM
TYP	TYPICAL
UG	UNDERGROUND
V	VOLT
VA	VOLT-AMPERE
VFD	VARIABLE FREQUENCY DRIVE
W	WATT
W/	WITH
WP	WEATHERPROOF
XFMR	TRANSFORMER
XP	EXPLOSION PROOF
3PH	THREE PHASE
4W	FOUR WIRE
3W	THREE WIRE

SYMBOL LEGEND

- SURFACE MOUNTED POWER PANEL, SEE PANEL SCHEDULES FOR RATING
- RECESSED MOUNTED POWER PANEL, SEE PANEL SCHEDULES FOR RATING
- (1/2) ELECTRIC MOTOR DRIVEN EQUIPMENT, HP SHOWN
- H, DS, DW — JUNCTION BOX, "H" DENOTES RANGE HOOD, "DS" DENOTES DISPOSAL, "DW" DENOTES DISHWASHER
- SM — MANUAL MOTOR STARTER SWITCH WITH THERMAL OVERLOAD DEVICE MOUNTED AT UNIT
- DISCONNECT SWITCH, SIZE AND NUMBER OF POLES AS INDICATED ON DRAWING. PROVIDED BY EC UNLESS NOTED OTHERWISE. PROVIDE FUSES WHERE RECOMMENDED BY MANUFACTURER.
- COMBINATION MOTOR STARTER/ DISCONNECT SWITCH WITH AUXILARY CONTACTS AND HAND-OFF-AUTO SWITCH AND RED RUN LIGHT. PROVIDED AND INSTALLED BY EC UNLESS NOTED OTHERWISE.
- VFD — VARIABLE FREQUENCY DRIVE, PROVIDED BY MC, INSTALLED AND WIRED BY EC
- IG — DUPLEX RECEPTACLE, 20A, 125V SPEC GRADE GROUNDING TYPE, TAMPER PROOF AND MATCHING PLATE. MOUNT 18" AFF UNLESS NOTED OTHERWISE. "IG" DENOTES ISOLATED GROUNDING TYPE.
- QUAD RECEPTACLE, 20A, 125V SPEC GRADE GROUNDING TYPE, TAMPER PROOF AND MATCHING PLATE. MOUNT 18" AFF UNLESS NOTED OTHERWISE.
- DUPLEX RECEPTACLE, 20A, 125V SPEC GRADE GROUNDING TYPE, TAMPER PROOF AND MATCHING PLATE. MOUNT 18" AFF, BOTTOM RECEPTACLE SWITCHED.
- GROUND FAULT DUPLEX RECEPTACLE 20A, 125V, TAMPER PROOF WITH MATCHING PLATE FURNISHED W/ OUTLET. FLUSH MOUNTED 45" AFF EXCEPT AS NOTED.
- REFRIGERATOR DUPLEX RECEPTACLE, 20A, 125V SPEC GRADE GROUNDING TYPE, TAMPER PROOF AND MATCHING PLATE. MOUNT RECEPTACLE AT 48 INCHES ABOVE FINISHED FLOOR.
- CL — FLUSH FLOOR MOUNTED DUPLEX RECEPTACLE- 20A, 125V SPEC GRADE GROUNDING TYPE. "CL" DENOTES CEILING MOUNTED
- RANGE OUTLET 50 AMP, 250 VOLT, GROUNDING TYPE FLUSH MOUNTED 18" AFF
- DRYER OUTLET 30 AMP, 250 VOLT, GROUNDING TYPE FLUSH MOUNTED 18" AFF
- RACEWAY & WIRING OR MC CABLE RUN CONCEALED IN WALLS/CEILINGS
- RACEWAY & WIRING RUN EXPOSED
- RACEWAY & WIRING RUN CONCEALED UNDER FLOOR OR BURIED 30" BELOW FINISH GRADE
- BRANCH CIRCUIT WIRING SHALL CONSIST OF (1)1/2"C-2•12AWG•1•12GND UNLESS OTHER WISE NOTED. (•)ASTERISK DENOTED •10AWG FOR ALL CIRCUITS CONTAINED IN HOME RUN. (••)DOUBLE ASTRISK DENOTES (1)3/4"C-2•8AWG•1•10GND.
- x / xx — HOME RUN TO PANEL, WITH PANEL AND CIRCUIT NUMBER — PROVIDE EQUIPMENT GROUNDS IN ACCORDANCE WITH NFPA 70, ATRICLE 250.
- CTV — CABLE TV JUNCTION BOX "CTV", SIZE AS REQUIRED BY CABLE UTILITY
- TV — TV OUTLET LOCATION, CABLE AND JACKS BY EC
- TCP — TEMPERATURE CONTROL PANEL, PROVIDED BY MC WIRED BY EC
- PUSHBUTTON FOR ELECTRICALLY OPERATED DOOR, FURN W/ DOOR OPERATOR, WIRED BY EC
- DOOR PUSHBUTTON-DOORBELL
- DOOR ELECTRIC STRIKE
- CHS — DOOR CHIME WITH STROBE-ADA COMMUNICATIONS REQUIREMENT
- A, D, F — LIGHTING FIXTURES, CAPITAL LETTERS DENOTE TYPE PER LIGHTING FIXTURE SCHEDULE. LOWER CASE LETTERS INDICATE SWITCH CONTROL. "ab" INDICATES INBOARD LAMPS CONTROLLED BY OUTBOARD SWITCHED. "a" AND "b". DIAGONAL INDICATED NIGHT LIGHT (UNSWITCHED)
- SELF CONTAINED EMERGENCY LIGHT W/2 HEADS DUAL-LITE (LED) MODEL LZ65I-03L, 65 WATTS FOR 90 MINUTES, COLOR BY ARCHITECT
- BATT — EMERGENCY LIGHTING BATTERY PACK DUAL-LITE No LM130-12VI-0 SELF-DIAGNOSTIC
- INTERIOR REMOTE HEAD DUAL-LITE (LED) MODEL No CPRD 1203L, COLOR BY ARCHITECT
- EXTERIOR REMOTE HEAD DUAL-LITE (LED) MODEL No OCRD 1203L COLOR BY ARCHITECT
- EXIT LIGHT FIXTURE, UNSWITCHED, DUAL-LITE LX-U-R-W-E OR APPROVED EQUAL

- SECURITY CAMERA LOCATION, COORDINATE AND PROVIDE DUPLEX RECEPTACLE, DATA AND CONDUIT PER MANUFACTURERS RECOMMENDATIONS
- DT PIR (MS) — CEILING MOUNTED MOTION SENSOR (WATTSTOPPER OR EQUAL) CORRIDORS: WT-2255 SENSOR & B120E-P POWER PACK. OTHER COMMON SPACES: WT-605 SENSOR & B120E-P POWER PACK. SENSORS AND RELAYS TO CONTROL CIRCUITS IN SPACES INDICATED. DEVICES SHALL PROVIDE FULL COVERAGE IN AREAS INSTALLED. DT INDICATES DUAL TECHNOLOGY PIR INDICATED PASSIVE INFRARED TECHNOLOGY
- S_{MS} — WALL MOUNTED SWITCH MOTION SENSOR. MOUNT AT 48" AFF UNLESS OTHER WISE NOTED
- S_3 S_4 S — SINGLE POLE SWITCH, 120V, 20A, SPEC GRADE, GROUNDING TYPE, MOUNT 48" AFF, 3•3-WAY, 4•4-WAY, LOWER CASE LETTER INDICATES FIXTURE OR CONTROLLED LOAD.
- S_{PL} — SWITCH WITH PILOT LIGHT, SWITCHE SHALL BE PROVIDED W/ ENGRAVED NAMEPLATE IDENTIFYING USE
- S_{RF} — REMOTE RANGE HOOD FAN SWITCH, CONNECT TO HOOD FAN THRU HOOD JUNCTION BOX.
- S_{RL} — REMOTE RANGE HOOD LIGHT SWITCH, CONNECT TO HOOD LIGHT THRU JUNCTION BOX.
- S_B — BURNER SAFETY SWITCH, PROVIDE WITH RED PLATE, MOUNTED 72" AFF
- D_4 D_3 D — SINGLE POLE DIMMER SWITCH, 120V, 20A, SPEC GRADE, GROUNDING TYPE, MOUNT 48" AFF, 3•3-WAY, 4•4-WAY, LOWER CASE LETTER INDICATES FIXTURE OR CONTROLLED LOAD.
- PC — PHOTOCELL
- LC — LIGHTING CONTACTOR
- TC — TIMECLOCK
- TELEPHONE/DATA DUAL JACK, MOUNT 18"AFF, RUN TWO CAT 5E CABLES BACK TO TBB
- DATA JACK, RUN TWO CAT 5E CABLES BACK TO TBB.
- CL (T) — FLUSH FLOOR MOUNTED TELEPHONE/DATA DUAL JACK, RUN TWO CAT 5E CABLES BACK TO TBB. "CL" DENOTES CEILING MOUNTED
- TELEPHONE JACK, MOUNT 18"AFF UNLESS NOTED OTHERWISE, RUN ONE CAT 5E CABLE BACK TO TBB.
- TELEPHONE BACK BOARD
- W — WiFi ROUTER, OCE CAT 5E CABLE BACK TO TBB OR IT ROOM. MOUNT ABOVE CEILING, "W" DENOTES WALL MOUNTED AT 72" AFF
- IP — INTERCOM PANEL IN UNIT
- IC — INTERCOM PANEL AT RECEPTION
- FACP — FIRE ALARM CONTROL PANEL
- ANN — FIRE ALARM ANNUNCIATOR PANEL
- FEM — FIRE EXTINGUISHER ELECTRONIC MONITOR-SHALL BE ACCOMPLISHED THROUGH USE OF AN ADDRESSABLE INTERFACE DEVICE AND SHALL PROVIDE INPUT TO THE FACP
- MH CL F — FIRE ALARM AUDIO/VISUAL, MOUNT 6'-8" AFF, NUMBER DENOTES CANDELA RATING, "MH" DENOTES MINIHORN, "CL" DENOTES CEILING MOUNTED. NO DESIGNATION EQUALS 15cd
- F — FIRE ALARM PULL STATION, MOUNT 48" AFF
- 15 CL SDH — FIRE ALARM VISUAL STROBE ONLY, FLUSH MOUNT 6'-8" AFF, NUMBER DENOTES CANDELA RATINGS. "CL" DENOTES CEILING MOUNTED
- (SD) — SYSTEM CONNECTED SMOKE / CARBON MONOXIDE DETECTOR, PHOTOELECTRIC TYPE
- 135° (H) — SYSTEM CONNECTED FIXED TEMPERATURE HEAT DETECTOR
- (SD) — SMOKE DETECTOR, PHOTOELECTRIC TYPE, SYSTEM CONNECTED.
- ER (SD) — SMOKE DETECTOR, PHOTOELECTRIC TYPE, SYSTEM CONNECTED. "ER" DENOTES ELEV RECALL
- SB (SD) — SYSTEM CONNECTED SMOKE DETECTOR, PHOTOELECTRIC TYPE, WITH SOUNDER BASE
- (CO) — CARBON MONOXIDE DETECTOR
- SD — DUCT SMOKE DETECTOR & TEST STATION
- FD/SD — FIRE/SMOKE DAMPER, SUPPLIED AND INSTALLED BY MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR TO PROVIDE ALL WIRING CONNECTIONS AND FIRE ALARM DUCT SMOKE DETECTORS, ADDRESSABLE MODULES AND PROGRAMMING.
- SPRINKLER SYSTEM FLOW SWITCH, SPRINKLER SYSTEM TAMPER SWITCH — SUPPLIED BY SPRINKLER CONTRACTOR WIRED BY EC. VERIFY LOCATIONS WITH SPRINKLER CONTRACTOR.
- M — MAGNETIC DOOR HOLD
- N — NURSE CALL BASE STATION
- NC — NURSE CALL PULL STATION
- NURSE CALL ANNUNCIATOR LIGHT
- WP DENOTES WEATHERPROOF CONSTRUCTION
- RP DENOTES EXISTING ELECTRICAL EQUIPMENT TO BE REPLACED
- RM DENOTES EXISTING ELECTRICAL EQUIPMENT TO REMAIN
- RL DENOTES EXISTING ELECTRICAL EQUIPMENT TO BE RELOCATED
- RV DENOTES EXISTING ELECTRICAL EQUIPMENT TO BE REMOVED

LIGHT FIXTURE SCHEDULE

TYPE	MANUFACTURER AND MODEL NUMBER	LAMP INFO	REMARKS
A	FINELITE CAT No HPR-A-2x4-RCO-LED-SO-3500K-120-SC-C1	36W LED 3500K	GENERAL USE RECESSED 2'x4'
B	FINELITE CAT No HPR-A-2x2-RCO-LED-SO-3500K-120-SC-C1	36W LED 3500K	GENERAL USE RECESSED 2'x2'
C	PRESCOLITE CAT No LF4SQLEDG4/4SQLED5G435K/B24	14.4W LED 3500K	4" SQUARE, RECESSED DOWNLIGHT
D	FOCAL POINT SEEM 4 CAT No FSM4L-FL-1000LF-35K-1C-120V-LD1-G3-WH-4'	51W LED 3500K	CLOSED OFFICE AND MEETING ROOM RECESSED 1'x4'

NOTES:
1. FIXTURES SHALL BE ENERGY STAR RATED OR HAVE HIGH PERFORMANCE BALLASTS AND LAMPS TO MEET STATE EFFICIENCY CRITERIA.
2. CONTRACTOR SHALL APPLY FOR ALL STATE EFFICIENCY INCENTIVES ON OWNERS BEHALF.
3. CONTRACTOR SHALL COORDINATE TYPES AND QUANTITIES OF FIXTURES SUPPLIED BY OWNER.

BENNETT ENGINEERING
MECHANICAL • ELECTRICAL
(207) 865-9475

7 BENNETT RD
PO BOX 297
FREEPORT, ME

PROJECT
MEMIC
261 COMMERCIAL STREET
FLOOR 2 & FLOOR 6
PORTLAND, ME 04101

REVISION NO.	DATE

TITLE: ELECTRICAL DEMO PLAN

SCALE	AS NOTED
DATE	01.07.2015
DRWN	CAT
CHK	SAJ

DRAWING NO.
E-5

FOR PERMITTING

Inspections Division
Date: 02/05/15

PORTLAND MAINE

Strengthening a Remarkable City, Building a Community for Life • www.portlandmaine.gov

Jeff Levine, AICP, Director
Director of Planning and Urban Development

Tammy Munson
Director, Inspections Division

Electronic Signature and Fee Payment Confirmation

Notice: Your electronic signature is considered a legal signature per state law.

By digitally signing the attached document(s), you are signifying your understanding this is a legal document and your electronic signature is considered a ***legal signature*** per Maine state law. You are also signifying your intent on paying your fees by the opportunities below.

I, the undersigned, intend and acknowledge that no permit application can be reviewed until payment of appropriate permit fees are ***paid in full*** to the Inspections Office, City of Portland Maine by method noted below:

Within 24-48 hours, upon receipt of an e-mailed invoice from Building Inspections, which signifies that my electronic permit application and corresponding paperwork have been received, determined complete, entered by an administrative representative, and assigned a permit number, I then have the following four (4) payment options:

- ■ to provide an on-line electronic check or credit/debit card (we now accept American Express, Discover, VISA, and MasterCard) payment (along with applicable fees beginning July 1, 2014),
- ■ call the Inspections Office at (207) 874-8703 and speak to an administrative representative to provide a credit/debit card payment over the phone,
- ■ hand-deliver a payment method to the Inspections Office, Room 315, Portland City Hall,
- ■ or deliver a payment method through the U.S. Postal Service, at the following address:

City of Portland
Inspections Division
389 Congress Street, Room 315
Portland, Maine 04101

Once my payment has been received, this then starts the review process of my permit. ***After all approvals have been met and completed, I will then be issued my permit via e-mail.*** No work shall be started until I have received my permit.

Applicant Signature: Josef Chalat Digitally signed by Josef Chalat DN: cn=Josef Chalat, o=Azimuth LLC, ou=Architect, email=azimuth@maine.rr.com, c=US Date: 2015.01.09 15:20:09 -05'00' Date: 1/9/2015

I have provided digital copies and sent them on: Josef Chalat Digitally signed by Josef Chalat DN: cn=Josef Chalat, o=Azimuth LLC, ou=Architect, email=azimuth@maine.rr.com, c=US Date: 2015.01.09 15:20:28 -05'00' Date: 1/9/2015

NOTE: All electronic paperwork must be delivered to buildinginspections@portlandmaine.gov or by physical means ie; a thumb drive or CD to the office.

Acknowledgment of Code Compliance Responsibility- Fast Track Project

Inspections Division
Date: 02/05/15

I, Josef Chalat, Architect am the owner or duly **authorized owner's agent** of the property listed below
Print Legal Name

MEMIC, 261 Commercial Street, Portland Maine 04101
Physical Address

I am seeking a permit for the construction or installation of:

Tenant Improvements at 2nd and 6th Floors
Proposed Project Description

I understand that the permits obtained pursuant to this acknowledgement of code compliance responsibility will be in my name and that I am acting as the **general contractor** for this project. I accept full responsibility for the work performed.

I am submitting for a permit authorized by the **State of Maine Uniform Building and Energy Code (MUBEC), Fuel Board Laws and Rules and all locally adopted codes and standards applying to Plumbing, Electrical, Fire Prevention and Protection in anticipation of having it approved or approved with conditions**. I have read the following statement and understand that **failure to comply with all conditions once construction is begun may necessitate an immediate work stoppage until such time as compliance with the stipulated conditions is attained**. I certify that I have made a diligent inquiry regarding the need for concurrent state or federal permits to engage in the work requested under this building permit, and no such permits are required or I will have obtained the required permits prior to issuance of this permit. I understand that the granting of this permit shall not be construed as satisfying the requirements of other applicable Federal, State or Local laws or regulations, including City of Portland historic preservation requirements, if applicable. I understand and agree that this permit does not authorize the violation of regulations.

In addition, I understand and agree that this building permit does not authorize the violation of the **12 M.R.S. § 12801 *et seq*. - Endangered Species.**

I certify under penalty of perjury and under the laws of the State of Maine the foregoing is true and correct. I further certify that all easements, deed restrictions, or other encumbrances restricting the use of the property are shown on the site plans submitted with this application.

I hereby apply for a permit as a Owner's Agent of the below listed property and by so doing will assume
Owner or Owner's Agent

responsibility for compliance with all applicable codes, bylaws, rules and regulations.

I further understand that it is ~~my~~ the General Contractor's responsibility to schedule inspections of the work as required and that the City's inspections will, at that time, check the work for code compliance. The City's inspectors may require modifications to the work completed if it does not meet applicable codes. JC *INITIAL HERE*

Sign Here: _____ Date: 1/8/2015

PLEASE ALSO

Acknowledgment of Code Compliance Responsibility- Fast Track Project

Inspections Division
Date: 02/05/15

OFFICE USE ONLY

PERMIT #_____

CBL #_____

THIS PROJECT IS ELIGIBLE FOR FAST TRACK PERMITTING BECAUSE IT IS IN THE FOLLOWING CATEGORY / CATEGORIES (CHECK ALL THAT APPLY):

- ☐ One/Two Family Swimming Pools, Spas or Hot Tubs
- ☐ One/Two Family Decks, Stairs and Porches (attached or detached) First Floor Only
- ☐ One/Two Family Detached One Story Accessory Structures (garages, sheds, etc.) not to exceed 600sq ft with no habitable space
- ☐ Home Occupations (excluding day cares)
- ☐ One/Two Family Renovation/Rehabilitation (within the existing shell)
- ☐ Attached One /Two Family Garages /Additions/Dormers bearing the seal of a licensed design professional
- ☐ New *Sprinklered* One and Two Family Homes (bearing the seal of a licensed design professional stating code compliance) – ***MUST STILL RECEIVE LEVEL 1 SITE PLAN APPROVAL FROM PLANNING***
- ☐ One/Two Family HVAC (including boilers, furnaces, heating appliances, pellet and wood stoves)
- ☑ Interior office renovations with no change of use (no expansions; no site work; no load bearing structural changes are eligible)bearing the seal of a licensed design professional stating code compliance
- ☑ Interior Demolition with no load bearing demolition
- ☐ Amendments to existing permits
- ☑ Commercial HVAC systems (with structural and mechanical plans bearing the seal of a licensed design professional stating code compliance)
- ☐ Commercial HVAC for Boilers/Furnaces/Heating Appliances
- ☐ Commercial Signs or Awnings
- ☐ Exterior Propane Tanks
- ☐ Residential or Commercial Subsurface Waste Water Systems (No Rule Variance Only)
- ☐ Renewal of Outdoor Dining Areas
- ☐ Temporary Outdoor Tents and stages under 750 sq ft per tent or stage
- ☐ Fire Suppression Systems (Both non-water and water based installations)
- ☐ Fences over 6'-0" in height
- ☐ Site work only
- ☐ Retaining walls over 4ft in height with stamped plans (or approval from inspection staff)

I understand that if the property is located in a historic district this application will also be reviewed by Historic Preservation. I further understand that the Building Inspections Division reserves the right to deny a fast track eligible pr

Sign Here: _____ Date: 1/8/2015

General Building Permit Application

Inspections Division
Date: 02/05/15

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.

Address/Location of Construction: 261 Commercial Street, Portland, ME 04101		
Total Square Footage of Proposed Structure: 2nd floor 4991 sf 6th floor 3125 sf (renovation)	Josef Chalat	
Tax Assessor's Chart, Block & Lot Chart# 038 Block# F Lot# 019	**Applicant Name:** Architect Address: 327 Ocean House Road City, State & Zip: Cape Elizabeth, Maine 04107	Telephone: (207) 865-9925 Email: Jon@zachauconstruction.com
Lessee/Owner Name : MEMIC/Catherine Lamson (if different than applicant) Address: 261 Commercial Street City, State & Zip: Portland Maine Telephone & E-mail: 207 791 3304 CatherineLamson@memic.com	**Contractor Name:** Zachau Construction (if different from Applicant) Address: 1185 U.S. Route One City, State & Zip: Freeport ME, 04032 Telephone & E-mail: 207 865 9925	Cost Of Work: $ 286,160.00 C of O Fee: $ Historic Rev $ **Total Fees : $**

Current use (i.e. single family) Business Offices
If vacant, what was the previous use? not previously vacant
Proposed Specific use: same as previous use, business offices
Is property part of a subdivision? no If yes, please name
Project description:
Tenant Improvement of portions of 2nd floor and 6th floor of building.

Who should we contact when the permit is ready:	Jon Provost, Project Manager
Address:	1185 U.S. Route One
City, State & Zip:	Freeport ME, 04032
E-mail Address:	Jon@zachauconstruction.com
Telephone:	(207) 807-8980

Please submit all of the information outlined on the applicable checklist. Failure to do so causes an automatic permit denial.

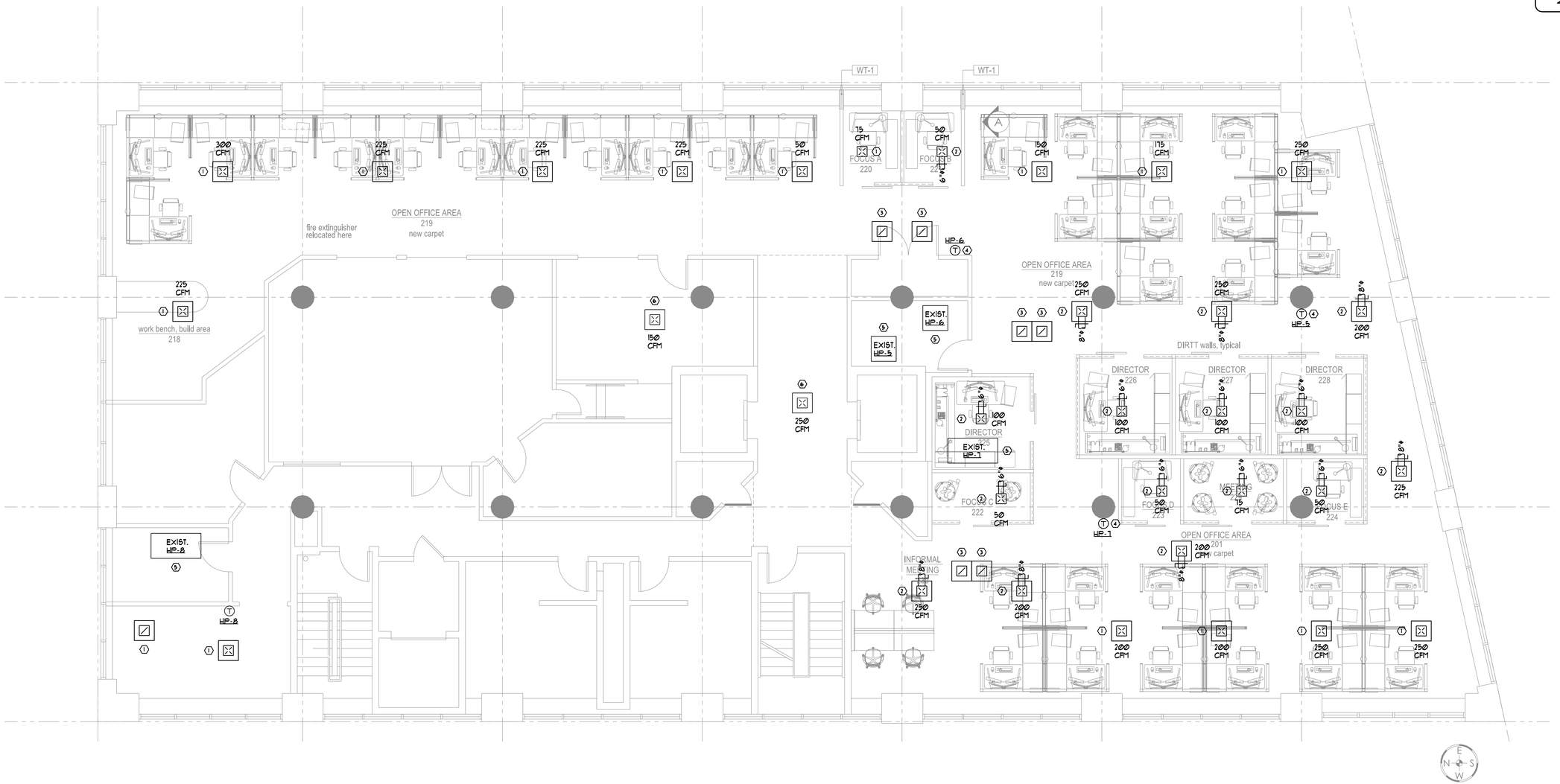
In order to be sure the City fully understands the full scope of the project, the Planning and Development Department may request additional information prior to the issuance of a permit. For further information or to download copies of this form and other applications visit the Inspections Division 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: Josef Chalat Digitally signed by Josef Chalat DN: cn=Josef Chalat, o=Azimuth LLC, ou=Architect, email=azimuth@maine.rr.com, c=US Date: 2015.01.09 15:20:52 -05'00' **Date:** 1/9/2015

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

PROGRESS PRINT
NOT FOR CONSTRUCTION



SECOND FLOOR MECHANICAL PLAN

SCALE 3/16" = 1'-0"

MECHANICAL NOTES

1. CONNECT TO EXISTING SUPPLY AIR BRANCH DUCT.
2. CONNECT PROPOSED SUPPLY AIR DIFFUSER/DUCT TO EXISTING MAIN DUCT.
3. CONNECT TO EXISTING RETURN AIR DUCTWORK.
4. RELOCATE EXISTING THERMOSTAT, FIELD COORDINATE WITH OWNER.
5. EXISTING AIR HANDLING SYSTEM TO REMAIN, REBALANCE AS REQ'D.
6. EXISTING DIFFUSER/GRILLE TO REMAIN.

FOR PERMITTING

BENNETT ENGINEERING
MECHANICAL • ELECTRICAL
(207) 865-9475

7 BENNETT RD
PO BOX 297
FREEPORT, ME

STATE OF MAINE
STEPHEN P. BENNETT
No. 3807
REGISTERED PROFESSIONAL ENGINEER

PROJECT
MEMIC
261 COMMERCIAL STREET
FLOOR 2 & FLOOR 6
PORTLAND, ME 04101

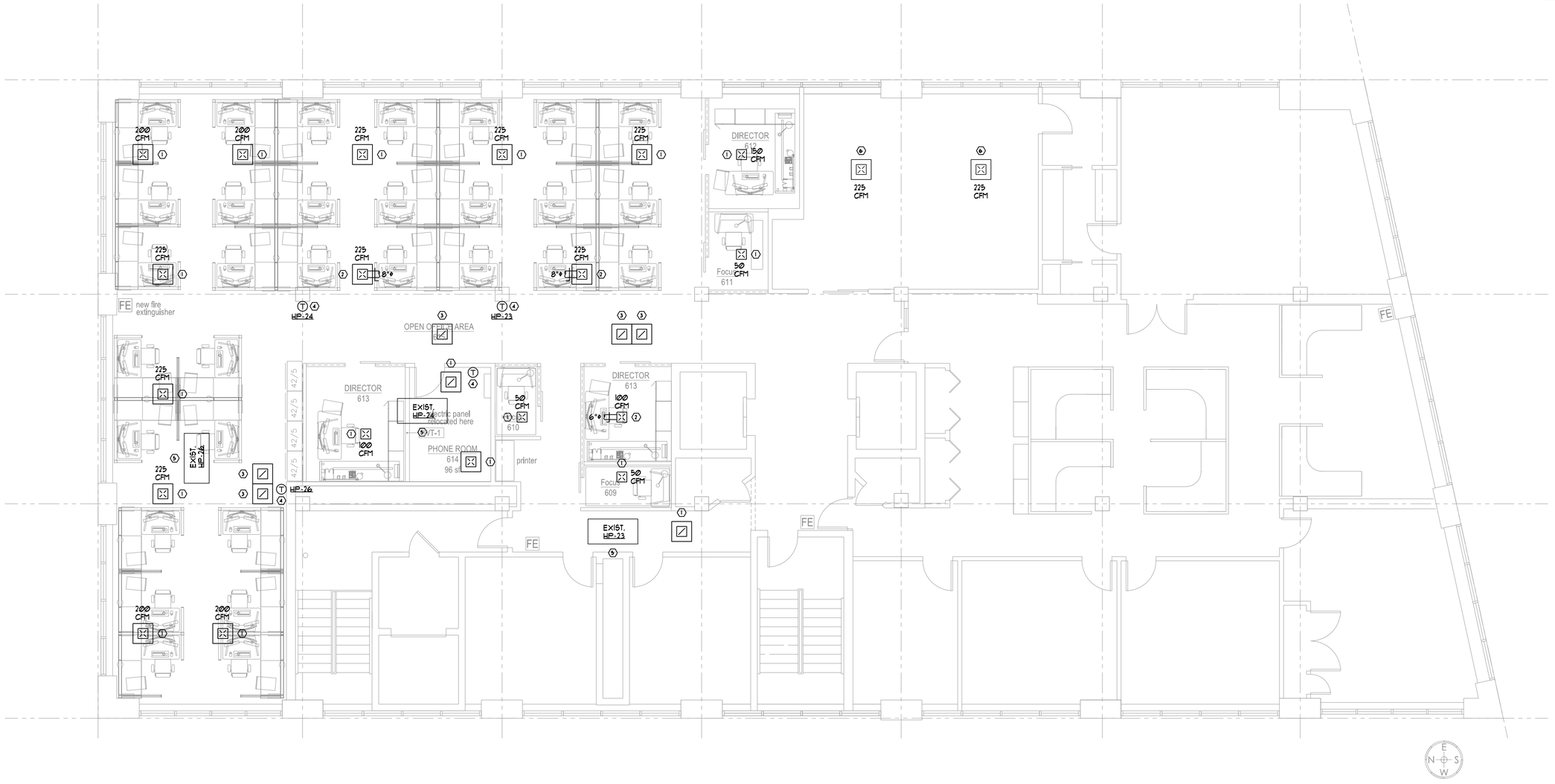
REVISION NO.	DATE

TITLE
2nd FLOOR
MECHANICAL PLAN

SCALE AS NOTED
DATE 01.07.2015
DRWN SMR CHK SPD

DRAWING NO.
M-1

PROGRESS PRINT
NOT FOR CONSTRUCTION



SIXTH FLOOR MECHANICAL PLAN

SCALE 3/16" = 1'-0"

MECHANICAL NOTES

1. CONNECT TO EXISTING SUPPLY AIR BRANCH DUCT.
2. CONNECT PROPOSED SUPPLY AIR DIFFUSER/DUCT TO EXISTING MAIN DUCT.
3. CONNECT TO EXISTING RETURN AIR DUCTWORK.
4. RELOCATE EXISTING THERMOSTAT, FIELD COORDINATE WITH OWNER.
5. EXISTING AIR HANDLING SYSTEM TO REMAIN, REBALANCE AS REQ'D.
6. EXISTING DIFFUSER/GRILLE TO REMAIN.

BENNETT ENGINEERING
MECHANICAL • ELECTRICAL
(207) 865-9475

7 BENNETT RD
PO BOX 297
FREEPORT, ME

STATE OF MAINE
STEPHEN P. MARKEL
No. 3807
REGISTERED PROFESSIONAL ENGINEER

PROJECT

MEMIC

261 COMMERCIAL STREET
FLOOR 2 & FLOOR 6
PORTLAND, ME 04101

REVISION NO.	DATE

TITLE

6TH FLOOR
MECHANICAL PLAN

SCALE	AS NOTED	DRWN	SMR
DATE	01.07.2015	CHK	SPD

DRAWING NO.

M-2

FOR PERMITTING

SPECIFICATIONS

1.01 GENERAL MECHANICAL

A. Furnish materials and labor necessary to deliver to the Owner a complete and operable system installed in accordance with the contract documents.

B. Submit shop drawings, manufacturers' data and certificates for equipment, materials and finish, and pertinent details for each system where specified in each individual section.

C. Provide information sufficiently in advance of this work, so that work by the other trades may be coordinated and installed without delays. Furnish and locate sleeves, supports, anchors and necessary access panels.

D. Obtain necessary permits and licenses, give notices and comply with laws, ordinances, rules, regulations or orders affecting the work, and pay fees and charges in connection therewith.

E. Work and materials shall conform to the latest rules and regulations and these rules and regulations hereby are made part of this specification.

F. Upon completion of the work and before applying for final payment, furnish a written guarantee, stating that the work complies with the provisions of codes and the local enforcing authorities, and that it will be free from defects of material and workmanship for not less than one (1) year. Guarantee shall further state that the Contractor will, at his own expense, repair or replace any of his material and work which may become defective during the time of guarantee, together with other work damaged as a consequence of such defects.

G. Equipment schedules shall serve as the basis of design for the products used, or equal.

1.02 DUCTWORK AND ACCESSORIES

A. Ductwork shall be galvanized steel conforming to ASTM A527, weight of galvanized coating shall be not less than 1-1/4 ounces total for both sides of one sq.ft. of a sheet. Construction, metal gage, and reinforcements shall conform with SMACNA "Duct Construction Standards" and NFPA 90A for 2" W.G. pressure class. Fittings shall be constructed in accordance with SMACNA Standards and shall be of the types indicated (ONLY). Longitudinal joints shall be Pittsburgh lockseam (ONLY). Button punch snap locks are not acceptable. Joints shall be sealed to SMACNA seal class B with Hardcast Duct Seal 321 water based indoor/outdoor sealant.

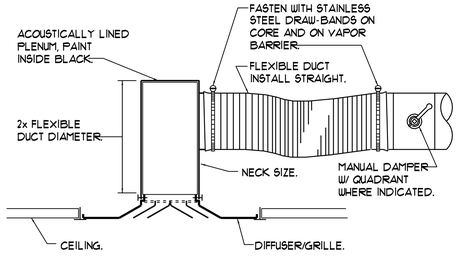
B. Volume dampers shall be Ruskin model MD-35 (rectangular) or model MDRS25 (round) with locking quadrant.

C. Acoustical duct liner shall be 1" Type AP Armaflex SA elastomeric unicellular, no fiberglass.

1.03 INSULATION

A. Supply Air Ductwork: 1-1/2" fiberglass ductwrap with FSK.

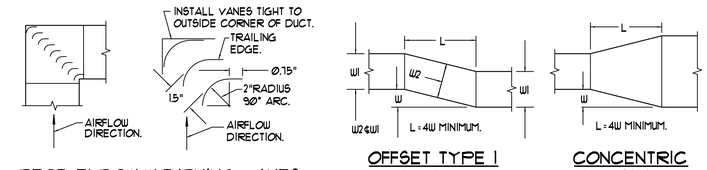
PROGRESS PRINT
NOT FOR CONSTRUCTION



DIFFUSER/RETURN CONNECTION DETAIL

NTS

NOTE DETAIL TYPICAL FOR CEILING GRILLES, REGISTERS AND LINEAR DIFFUSERS. FOR SURFACE-MOUNT DEVICES, SUPPORT PLENUM FROM CEILING GRID WITH STEEL ANGLES FASTENED TO PLENUM.



RECT. ELBOW W/TURNING VANES

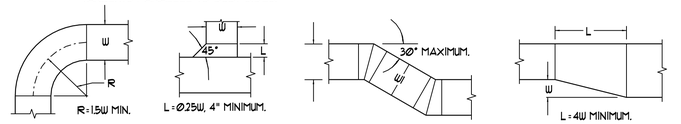
NTS NOTE INSTALL VANE EDGES TO PROJECT TANGENTS PARALLEL TO DUCT SIDES.

OFFSET TYPE 1 (ANGLED)

NTS

CONCENTRIC TRANSITION

NTS



RADIUS ELBOW

NTS

RECTANGULAR TAP 45 DEGREE ENTRY

NTS

OFFSET TYPE 2 (MITERED)

NTS

ECCENTRIC TRANSITION

NTS

LOW PRESSURE DUCT CONSTRUCTION DETAILS - TYPICAL

NTS

MECHANICAL AND PLUMBING SYMBOLS AND ABBREVIATIONS LEGEND

NOTE - USE SYMBOLS AND ABBREVIATIONS AS APPLICABLE FOR THIS MECHANICAL DRAWING SET.
SOME SYMBOLS AND ABBREVIATIONS IN THIS LEGEND MAY NOT APPLY.

SYMBOL	DESCRIPTION
CA	COMPRESSED AIR PIPING (CA)
C	CONDENSATE DRAIN PIPING (C)
CTR	COOLING TOWER RETURN PIPING (CTR)
CTS	COOLING TOWER SUPPLY PIPING (CTS)
CWR	CHILLED WATER RETURN PIPING (CWR)
CWS	CHILLED WATER SUPPLY PIPING (CWS)
FOR	FUEL OIL RETURN PIPING (FOR)
FOS	FUEL OIL SUPPLY PIPING (FOS)
G	GAS PIPING (G)
HWR	HOT WATER RETURN PIPING (HWR)
HWS	HOT WATER SUPPLY PIPING (HWS)
RL	REFRIGERANT LIQUID PIPING (RL)
RG	REFRIGERANT GAS PIPING (RG)
	SANITARY PIPING BELOW FLOOR (SAN)
	SANITARY PIPING ABOVE FLOOR (SAN)
	SANITARY VENT PIPING
RWL	RAINWATER LEADER ABOVE SLAB (RWL)
	COLD WATER PIPING (CW)
	HOT WATER PIPING (HW)
	RECIRCULATED HOT WATER PIPING (RHW)
	PIPE CAP
	DIRECTION OF FLUID FLOW
	ELBOW UP
	ELBOW DOWN
	PIPE TEE UP
	PIPE TEE DOWN
	PIPE REDUCER
	PIPE WITH GUIDE
	PIPE WITH ANCHOR
	BUTTERFLY VALVE
	OS & Y GATE VALVE
	BACKFLOW PREVENTER (BFP)
	CHECK VALVE
	BALANCING VALVE (ADJUSTABLE)
	AUTOMATIC FLOW CONTROL VALVE
	RELIEF VALVE (RV)

SYMBOL	DESCRIPTION
	BALL VALVE
	BALL VALVE
	3/4" BALL VALVE WITH 3/4" HOSE END
	GATE VALVE
	PRESSURE REDUCING VALVE
	FUSIBLE VALVE
	STRAINER W/BLOWDOWN BALL VALVE
	2-WAY CONTROL VALVE
	SOLENOID VALVE
	3-WAY CONTROL VALVE
	3-WAY CONTROL VALVE (TOP VIEW)
	4-WAY CONTROL VALVE (TOP VIEW)
	2 BUTTERFLY VALVES W/SINGLE ACTUATOR
	BUTTERFLY VALVE W/ACTUATOR
	TRIPLE-DUTY VALVE
	UNION
	PIPE FLANGE
	PUMP WITH FLANGES
	BASE MOUNTED PUMP
	CARTRIDGE TYPE INLINE PUMP
	VERTICAL INLINE PUMP
FC	FLEXIBLE PIPE CONNECTION (FC)
	PITCH DOWN
	PETCOCK
	FLOW METER
P	PRESSURE GAGE WITH GAGE COCK
T	THERMOMETER IN WELL
WFS	WATER FLOW SWITCH
PS	PRESSURE SWITCH OR SENSOR
IT	IMMERSION TEMPERATURE SENSOR
SD	DUCT MOUNTED SMOKE DETECTOR
RT	ROOM TEMPERATURE SENSOR
T S	THERMOSTAT OR SENSOR ON WALL

SYMBOL	DESCRIPTION
T G	TSTAT OR SENSOR W/ TAMPERPROOF GUARD
V	MANUAL AIR VENT
2	NOTE TAG (NUMBER)
A 250	AIR DEVICE TAG (LETTER) WITH CFM
201	ROOM NUMBER
	TURNING VANES
	DUCT W/MANUAL DAMPER
	DUCT W/FLEXIBLE CONNECTION (FC)
	LAGGED DUCT
	DUCT W/ACOUSTIC LINING
	DUCT W/SQUARE-TO-ROUND TRANSITION
	FLEXIBLE DUCT
MOD	MOTOR OPERATED DAMPER
	AIRFLOW OUT
	AIRFLOW IN
ϕ	DIAMETER OR FLAT OVAL
	FIRE DAMPER
	ROUND OR FLAT OVAL DUCT DOWN
	ROUND OR FLAT OVAL DUCT UP
	SUPPLY DIFFUSER
	RETURN GRILLE
	STEAM TRAP
	WATER HAMMER ARRESTOR

ABBREVIATION	DESCRIPTION
AAV	AUTOMATIC AIR VENT
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AHU-*	AIR HANDLING UNIT TAG
AMS	AIRFLOW MONITORING STATION
AMPS	AMPERES
AP	ACCESS PANEL
APD	AIR PRESSURE DROP
AS-*	AIR SEPARATOR TAG
ATC	AUTOMATIC TEMPERATURE CONTROL
B-*	BOILER TAG
BD-*	BYPASS DAMPER TAG
BFP-*	BACKFLOW PREVENTER TAG
BHP	BRAKE HORSEPOWER
BTUH	BRITISH THERMAL UNITS PER HOUR
CBD	COUNTER BALANCED DAMPER
CC-*	COOLING COIL TAG
CFM	CUBIC FEET PER MINUTE
CHLR-*	CHILLER TAG
CO	CLEANOUT
CONV-*	CONVECTOR TAG
CUH-*	CABINET UNIT HEATER TAG
CP-*	CIRCULATING PUMP TAG
CT-*	COOLING TOWER TAG
Cv	VALVE COEFFICIENT
CW	COLD WATER
CHWS/R	CHILLED WATER SUPPLY AND RETURN
DB	DRY BULB
dB RE	DECIBELS RELATIVE TO
DC	DOUBLE CHECK
DCA	DOUBLE CHECK ATMOSPHERIC
DEG F	DEGREES FAHRENHEIT
DIA	DIAMETER
DIW	DOWN IN WALL
DN	DOWN
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EDB	ENTERING DRY BULB
EDC-*	ELECTRIC DUCT COIL TAG
EER	ENERGY EFFICIENCY RATIO
EF-*	EXHAUST FAN TAG
EFF	EFFICIENCY
EG-*	EXHAUST GRILLE TAG
ER-*	EXHAUST REGISTER TAG
ESP	EXTERNAL STATIC PRESSURE
ET-*	EXPANSION TANK TAG
EWB	ENTERING WET BULB
EWH-*	ELECTRIC WATER HEATER TAG
EWT	ENTERING WATER TEMPERATURE
EXG	EXISTING
EXH	EXHAUST
FC	FLEXIBLE CONNECTION
FCO	FLOOR CLEANOUT
FD	FIRE DAMPER
FD-*	FLOOR DRAIN TAG
FLA	FULL LOAD AMPS
FOR	FUEL OIL RETURN
FOS	FUEL OIL SUPPLY
FPHB	FROST PROOF HOSE BIBB
FPM	FEET PER MINUTE
FS-*	FLOOR SINK TAG
FT	FEET
FTR-*	FINTUBE RADIATION TAG
GA.	GAGE
GAL	GALLONS
GFUH-*	GAS FIRED WATER HEATER TAG
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GUH-*	GAS UNIT HEATER TAG
HC-*	HEATING COIL TAG
HP	HORSEPOWER
HRV-*	HEAT RECOVERY VENTILATOR TAG
HW	HOT WATER
HWS/R	HOT WATER SUPPLY AND RETURN
I-B-R	INSTITUTE OF BOILER AND RADIATOR MANUFACTURERS
IFUH-*	INDIRECT FIRED WATER HEATER TAG
IN.	INCHES
IV-*	INTAKE VENT TAG
IW.	INDIRECT WASTE (AIR GAP)
L-*	LOUVER TAG
LAT	LEAVING AIR TEMPERATURE
LB	POUNDS
LD-*	LINEAR DIFFUSER TAG
LTHWS/R	LOW TEMPERATURE HOT WATER
LRA	LOCKED ROTOR AMPS
LUCO	LOW WATER CUTOUT
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
MBH	THOUSANDS OF BTU PER HOUR
MCA	MINIMUM CIRCUIT AMPACITY
MIN	MINIMUM
NC	NOISE CRITERION
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OBD	OPPOSED BLADE DAMPER
O.D.	OUTSIDE DIAMETER
OED	OPEN ENDED DUCT
OFRWL	OVERFLOW RAINWATER LEADER
OFWH-*	OIL FIRED WATER HEATER TAG
OFRD	OVERFLOW ROOF DRAIN
OPD	OVERCURRENT PROTECTIVE DEVICE
P-*	PLUMBING FIXTURE TAG
PENETN	PENETRATION
PF-*	PADDLE FAN TAG
PSIA	POUNDS PER SQUARE INCH ABSOLUTE
PSIG	POUNDS PER SQUARE INCH GAGE
PVC	POLYVINYL CHLORIDE (PIPE)
RA	RETURN AIR
RD	ROOF DRAIN
RDE	RECOMMENDED DUAL ELEMENT FUSE AMPS
RFM-*	RADIANT FLOOR MANIFOLD TAG
RG-*	RETURN GRILLE TAG
RHW	RECIRCULATED HOT WATER
RLA	RUNNING LOAD AMPS
RPM	REVOLUTIONS PER MINUTE
RPS	REVOLUTIONS PER SECOND
RPZ	REDUCED PRESSURE ZONE
RR-*	RETURN REGISTER TAG
RTU	ROOM TEMPERATURE SENSOR
RV	RELIEF VALVE
RWL	RAINWATER LEADER
SA	SUPPLY AIR
SAN	SANITARY (DRAIN # WASTE)
SD	SMOKE DAMPER
SEER	SEASONAL ENERGY EFFICIENCY RATIO
SF	SUPPLY FAN
SG-*	SUPPLY GRILLE TAG
SP	STATIC PRESSURE
SP-*	SUMP PUMP TAG
SR-*	SUPPLY REGISTER TAG
SQFT	SQUARE FEET
△T	TEMPERATURE DIFFERENTIAL
TEMP.	TEMPERATURE
TCP	TEMPERATURE CONTROL PANEL
TMV-*	THERMOSTATIC MIXING VALVE TAG
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
UH-*	UNIT HEATER TAG
U.N.O.	UNLESS NOTED OTHERWISE
VAV-*	VARIABLE AIR VOLUME BOX TAG
VB	VACUUM BREAKER
VFD	VARIABLE FREQUENCY INVERTER DRIVE
VTR	VENT THRU ROOF
V/PH/HZ	VOLTS/PHASES/HERTZ
WB	WET BULB
WCO	WALL CLEANOUT
WG	WATER GAGE
WPD	WATER PRESSURE DROP
WSA	WIRE SIZING AMPS
WTD	WATER TEMPERATURE DROP
W/	WITH
ZD-*	ZONE DAMPER TAG

BENNETT ENGINEERING
MECHANICAL • ELECTRICAL
(207) 865-9475

7 BENNETT RD
PO BOX 297
FREEPORT, ME

STATE OF MAINE
STEPHEN P. BENNETT
No. 3807
REGISTERED PROFESSIONAL ENGINEER

PROJECT
MEMIC
261 COMMERCIAL STREET
FLOOR 2 & FLOOR 6
PORTLAND, ME 04101

REVISION NO.	DATE

TITLE
MECHANICAL LEGEND, SCHEDULES & DETAILS

SCALE AS NOTED
DATE 01.07.2015
DRWN SMR CHK SPD

DRAWING NO.
M-3

FOR PERMITTING