

# Certificate of Occupancy



## CITY OF PORTLAND, MAINE

## Department of Planning and Urban Development Building Inspections Division

**Location: 21 PLEASANT ST** 

CBL: 038- E-024-001

Issued to: HENRY STEINBERG

Date Issued: 3/27/2012

This is to certify that the building, premises, or part thereof, at the above location, built-altered-changed as to use under Building Permit No. 2011-11-2801-CH OF USE, has had a final inspection, has been found to conform substantially to the requirements of the Building Code and the Land Use Code of the City of Portland, and is hereby approved for occupancy or use, limited or otherwise, as indicated below.

PORTION OF BUILDING OR PREMISES	APPROVED OCCUPANCY
ENTIRE	USE GROUP A-2 & R-2
1 RESTAURANT & 9 RESIDENTIAL UNITS	IBC 2009
Limiting Conditions: This certificate certifies the use of the building only. It does not c	ertify building code comphance.
Approved:	
3-27-2012	
(Date) Inspector	Inspections Division Director
Notice: This certificate identifies the legal use of the building or premises, and ought to be transferred from	owner to owner upon the sale of the property.



#### **DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK**

## CITY OF PORTLAND BUILDING PERMIT



This is to certify that HENRY STEINBERG

Job ID: 2011-11-2801-CH OF USE

Located At 21 PLEASANT ST

CBL: 038- E-024-001

has permission to Change of use, 8 residential units to 9 (from previously unpermitted day care), 1<sup>st</sup> fl vacant commercial provided that the person or persons, firm or corporation accepting this permit shall comply with all of the provisions of the Statues of Maine and of the Ordinances of the City of Portland regulating the construction, maintenance and use of the buildings and structures, and of the application on file in the department.

Notification of inspection and written permission procured before this building or part thereof is lathed or otherwise closed-in. 48 HOUR NOTICE IS REQUIRED. A final inspection must be completed by owner before this building or part thereof is occupied. If a certificate of occupancy is required, it must be

#### **Fire Prevention Officer**

Code Enforcement Officer / Plan Reviewer

THIS CARD MUST BE POSTED ON THE STREET SIDE OF THE PROPERTY PENALTY FOR REMOVING THIS CARD





#### City of Portland, Maine - Building or Use Permit Application

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

Job No: 2011-11-2801-CH OF USE	Date Applied: 11/28/2011		CBL: 038- E-024-001			
Location of Construction: 21 PLEASANT ST	Owner Name: HENRY STEINBERG		Owner Address: PO BOX 2187 SOUTH PORTLAND, ME 04116			Phone: 207-899-3014
Business Name:	Contractor Name: Owner		Contractor Addr	ress:		Phone:
Lessee/Buyer's Name:	Phone:		Permit Type: BLDG – Building-	change of use		Zone: B-3
Past Use: One commercial space 1 <sup>st</sup>	Proposed Use:	d 9	Cost of Work: 1000.00			CEO District:
on first floor and 8 dwelling units.	Commercial space and 9 dwelling units – split one dwelling unit off from the rear of the commercial space.		Fire Dept: Signature:	Approved W/a Denied N/A	conditions 19/11	Inspection: Use Group: Type: The-Z001 Signature:
Proposed Project Description Change of use from commercial to			Pedestrian Activ	ities District (P.A.D.	)	12/22/11
Permit Taken By.				Zoning Approva	al	
<ol> <li>This permit application d Applicant(s) from meetin Federal Rules.</li> <li>Building Permits do not i septic or electrial work.</li> <li>Building permits are voic within six (6) months of t False informatin may inv permit and stop all work.</li> </ol>	g applicable State and nclude plumbing, l if work is not started he date of issuance. alidate a building	Shorelan Wetland Flood Zo Subdivis Site Plan	ts one sion	Zoning Appeal Variance Miscellaneous Conditional Use Interpretation Approved Denied Date:	<ul> <li>Not in D</li> <li>Does no</li> <li>Requires</li> <li>Approve</li> <li>Approve</li> <li>Denied</li> </ul>	

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 appication 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
		DATE	DUONE

1-6-12 DWM/BKL

1/6/2012 DWM/BKL/John Martell Final Provide: Address Drum trap at Bath lavvy Show 1hr separation Handrail interior and exterior VEgress window at Bedroom Hardwired SD Repair hydronic Fire fail - Fire door to basement Sprinkler at furnaces Seal ceiling holes

Elec fail - to be brought up to current code

2-28-12 DWM/BKL/Capt Pirone EFail Provide Handrail extension

- Remove provent.

#### BUILDING PERMIT INSPECTION PROCEDURES Please call 874-8703 or 874-8693 (ONLY) or email: buildinginspections@portlandmaine.gov

With the issuance of this permit, the owner, builder or their designee is required to provide adequate notice to the city of Portland Inspections Services for the following inspections. Appointments must be requested 48 to 72 hours in advance of the required inspection. The inspection date will need to be confirmed by this office.

- Please read the conditions of approval that is attached to this permit!! Contact this office if you have any questions.
- Permits expire in 6 months. If the project is not started or ceases for 6 months.
- If the inspection requirements are not followed as stated below additional fees may be incurred due to the issuance of a "Stop Work Order" and subsequent release to continue.

Electrical close in if required

Certificate of Occupncy/Final Inspection

The project cannot move to the next phase prior to the required inspection and approval to continue, REGARDLESS OF THE NOTICE OF CIRCUMSTANCES.

IF THE PERMIT REQUIRES A CERTIFICATE OF OCCUPANCY, IT MUST BE PAID FOR AND ISSUED TO THE OWNER OR DESIGNEE BEFORE THE SPACE MAY BE OCCUPIED.



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

Director of Planning and Urban Development Penny St. Louis

Job ID: 2011-11-2801-CH OF USE

Located At: 21 PLEASANT ST

CBL: 038- E-024-001

#### **Conditions of Approval:**

#### Zoning

- 1. This permit is being approved on the basis of plans submitted. Any deviations shall require a separate approval before starting that work.
- 2. ANY exterior work requires a separate review and approval thru Historic Preservation. This property is located within an Historic District.
- 3. With the issuance of this permit and the certificate of occupancy, the use of this property shall remain as first floor commercial in front, and three dwelling units in the rear, second floor as four dwelling units and third floor as two dwelling units for a total of nine dwelling units. Any change of use shall require a separate permit application for review and approval.

#### Building

- 1. Application approval based upon information provided by applicant. Any deviation from approved plans requires separate review and approval prior to work.
- 2. Permit approved based on the plans submitted and reviewed w/applicant, with additional information as agreed on and as noted on plans.
- 3. All penetrations through rated assemblies must be protected by an approved firestop system installed in accordance with ASTM E 814 or UL 1479, per IBC 2009 Section 713.
- 4. This is a Change of Use ONLY permit. It does NOT authorize any construction activities, except to close the former doorway with studs, 5/8" type x drywall and insulation.
- 5. Separate permits are required for any electrical, plumbing, sprinkler, fire alarm, HVAC systems, heating appliances, including pellet/wood stoves, commercial hood exhaust systems and fuel tanks. Separate plans may need to be submitted for approval as a part of this process.
- 6. Those creating dwellings shall install a CO detector in each area within or giving access to bedrooms. That detection must be powered by the electrical service in the building and battery.
- 7. Hardwired interconnected battery backup smoke detectors shall be installed in all bedrooms, protecting the bedrooms, and on every level.

#### Fire

- 1. Installation shall comply with City Code Chapter 10.
- 2. All construction shall comply with City Code Chapter 10.
- 3. This permit is being approved on the basis of the plans submitted. Any deviation from the plans would require amendments and approval.
- 4. Any cutting and welding done will require a Hot Work Permit from Fire Department.
- 5. All outstanding code violations shall be corrected prior to final inspection.

## **General Building Permit Application**

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

Location/Address of Construction:	I PLEASANT SPECT.	PERTCAND, HE CLICA
Total Square Footage of Proposed Structu	re/Area Square Footage of Lot	Number of Stories
Tax Assessor's Chart, Block & Lot	Applicant * <u>must</u> be owner, Lessee or Buy	
Chart# Block# Lot#	Name HELIRY STEINBERG	
38 & 24	Address 21. REASANT ST.	508 439 0983 CELL
		207 899 July Home
	City, State & Zip Portan Nie (	HID
Lessee/DBA (If Applicable)	Owner (if different from Applicant)	Cost Of 70
	Name	Work: \$70
	Address	C of O Fee: \$
	City, State & Zip	
		Total Fee: \$
		100
Current legal use (i.e. single family)	Number of Resident	ial Units <u>30</u>
If vacant, what was the previous use?		130
Is property part of a subdivision?	If west please name	
Project description:	11100 Prove day Ca	to to loo adomination
0.0	If yes, please name_ 1 UDE from day (a	
Contractor's name:		$\land$
Address:		L'
City, State & Zip		Telephone:
Who should we contact when the permit is	ready: AS ABOVE	elephone:
Mailing address:		8 JEENIN
	08	AL DO O
	on outlined on the applicable Check	ist. Failure to
do so will fesuit in t	he automatic denial of your permit.	5 5
In order to be sure the City fully understands t	he full scope of the project, the Planning and ${f L}$	evelopment Department
	e issuance of a permit. For further information	
this form and other applications visit the Inspe Division office, room 315 City Hall or call 874-870	ections Division on-line at <u>www.portlandmaine.gov,</u> 3.	, or stop by the Inspections
	he named property, or that the owner of record auth	
	his application as his/her authorized agent. I agree work described in this application is issued, I certify	
authorized representative shall have the authority to	enter all areas covered by this permit at any reasons	
provisions of the codes applicable to this permit.	1 1.19	
11 April	1 1 / 1017	
Signature:	Date: 1/01 28 4	911-

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



Ora Properties LLC 13 Hunts Point Road Cape Elizabeth, ME 04107 207-899-3014

December 5 2011

Dear Ms Machado,

With reference to our telephone conversation, please find attached a plot plan (green) with 21 Pleasant Street building foot print in black. The commercial space at the front of the building is shown in detail but mostly comprises of open space. I have also shown the proposed cutoff from the proposed apartment #9 (incorrectly referred previously as apartment #10)

Please do not hesitate to call me should you have any questions.

Henry Steinberg.



DEC - 6 2011

Dept. of Building Inspections City of Portland Maine

Jonby Ever. Hen next level Joanton behand

- med floor plan for each floor.

Need plotplan Nud floorplanof annihil st floor Usel use - 2005 - 8 dwellig with PADUCE IStflor Commercual Space



Ora Properties L.L.C 13 Hunts Point Road Cape Elizabeth, ME 04107 207-899-3014

City of Portland Licensing and works department City Hall Portland.

1998 Dry Cr.

Dear Sir.

November 23rd 2011 G-Spoke & Hung Steinskinberg 12/5/1 Please find attached plan for proposed Apartment 10 at 21 Pleasant Street, Portland. The space was formally used for the last 13 years as a children's day care. No structural changes have been made, or are required. We do however propose to close off entrance from the highlighted retail space thereby creating a self contained residential apartment

Permit or intertainty

#### Kitchen

We have placed a counter top comprising Lazy Suzie, double sink, and storage on the left hand side of the kitchen which needs to be connected to the water and drainage pipes that served the old kitchen unit.

#### Living room

No changes have been made or need to be made. Carpet has been laid. Walls and ceilings have been painted.

#### Bedroom

No changes have been made or need to be made. Carpet has been laid. Walls and ceilings have been painted.

#### Bathroom

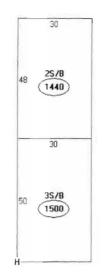
We have replaced old cracked and dysfunctional bathroom fixtures with new.

#### Windows

We have replaced old rotting and cracked windows where needed in the bedroom and bathroom. Dimensions are shown on the plan.

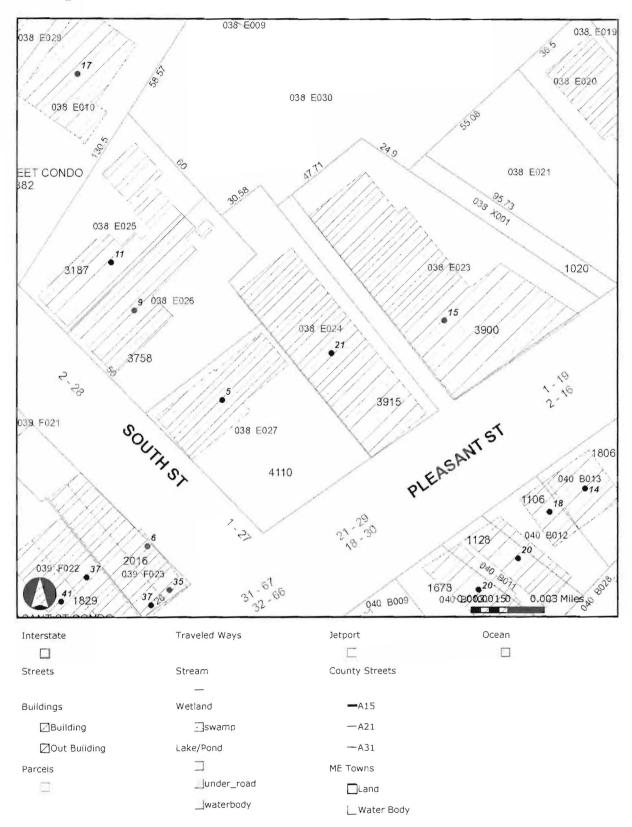
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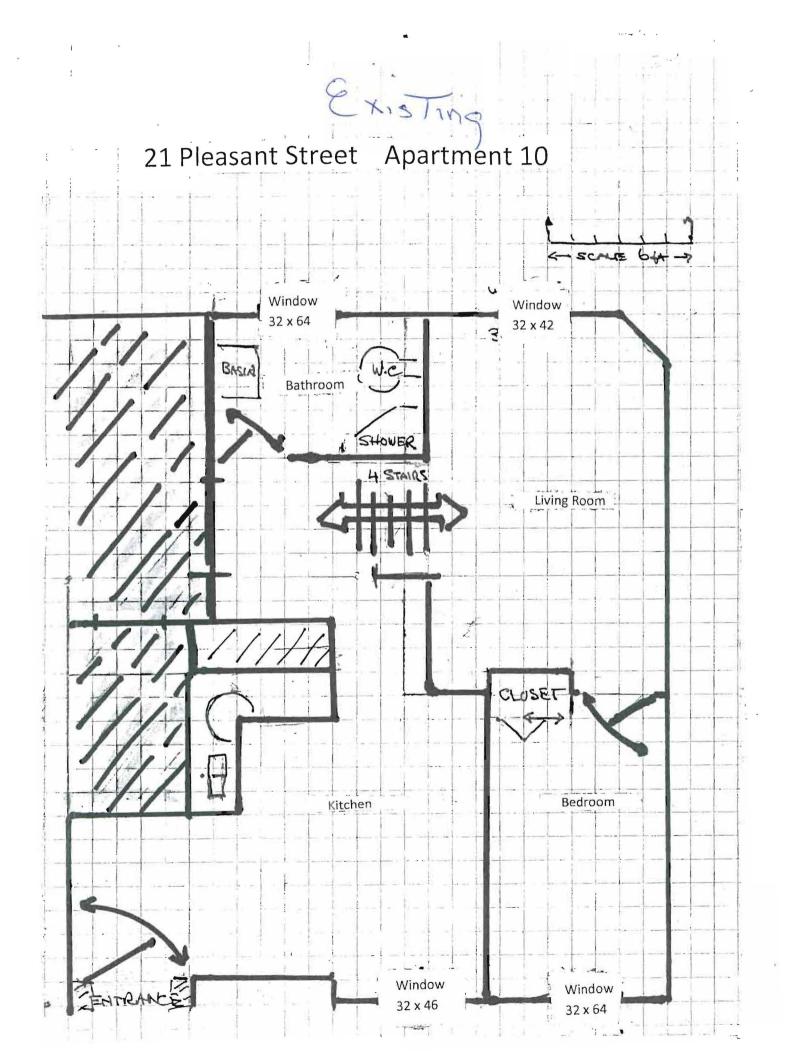
#### Page 1 of 1

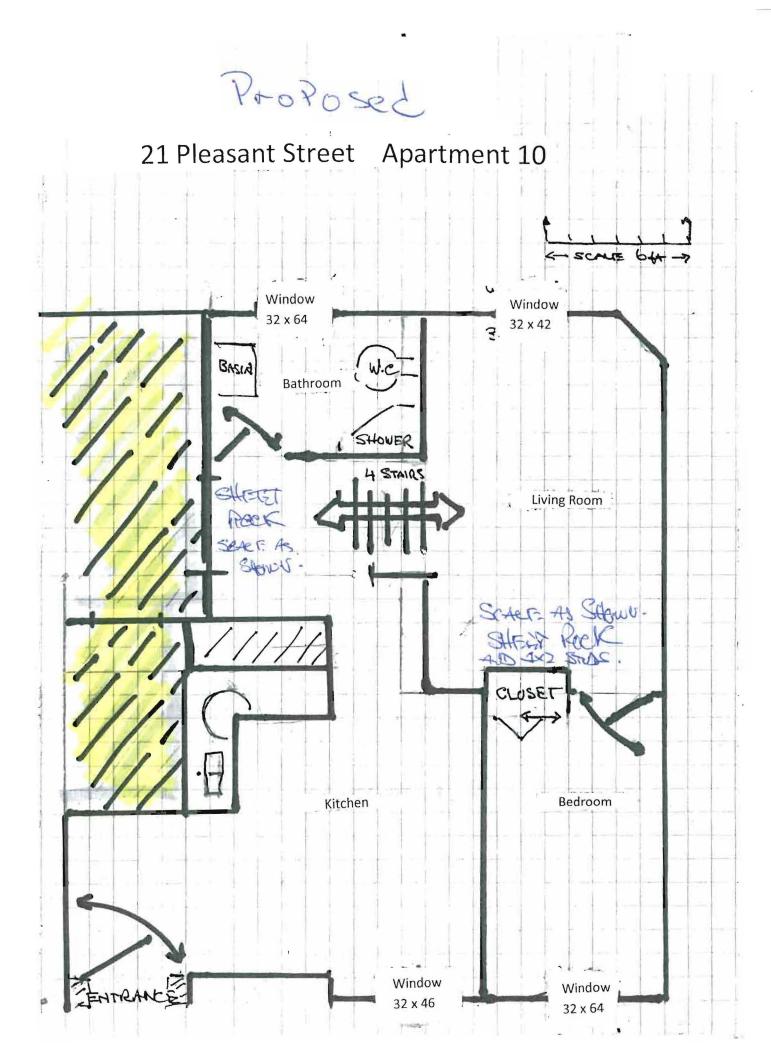


Descriptor/Area A. 066 2940 sqit B: 082 1500 sqit C. 011 1440 sqit D. 011 2940 sqit E. 011 1500 sqit F: 35/8 1540 sqit H: PA1 800 sqit

## Map

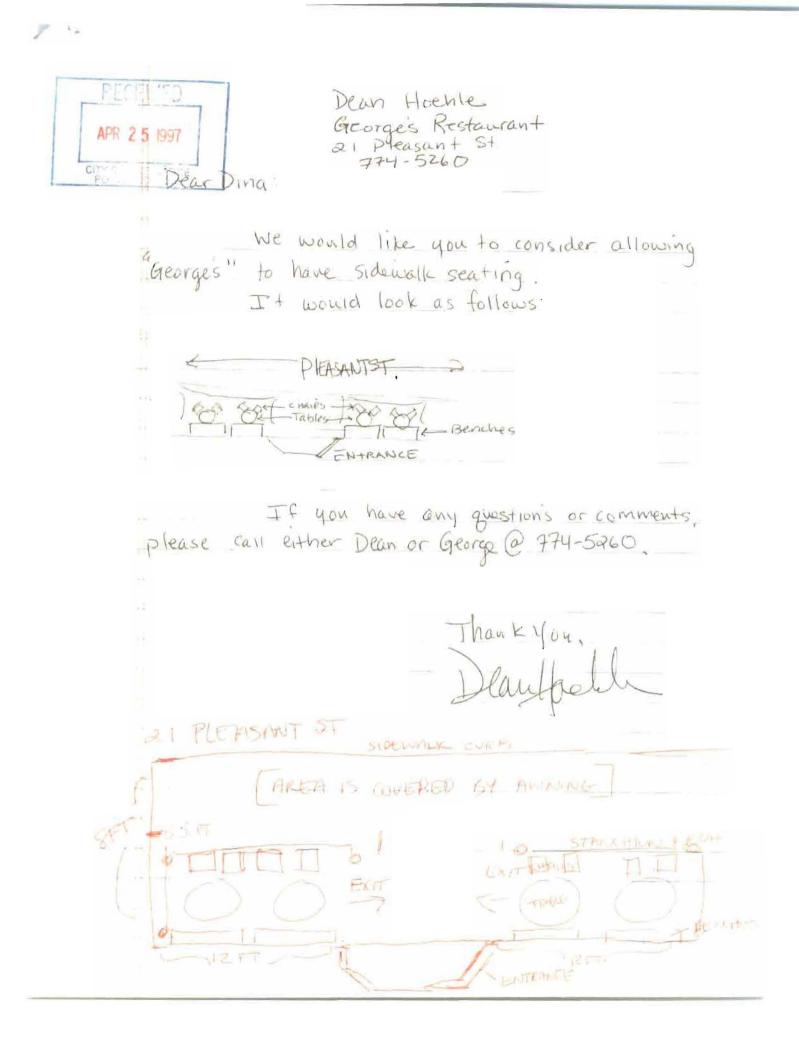






Location of Construction: 21 Pleasant St	Owner: Pleasant St L		hone:	Permit No: 70674
Owner Address:	Lessee/Buyer's Name:	Phone: B	usinessName:	PERMIT ISSUED
Contractor Name:	George's Restaurant 2 Address:	Pleasant St Pt1 Phone:	d, ME 04101	Permit Issued.
		and the second sec	774-5260	JUN 2 T 1997
Past Use:	Proposed Use:	COST OF WORK:	<b>PERMIT FEE:</b> <b>\$</b> 25.00	
Restaurant	Same	FIRE DEPT. Appr		CITY OF PORTLAND
	Dane	🗆 Denie	ed Use Group: Type:	Zone: CBL: 038-E-024
Desney of Designet Descriptions		Signature: 197	2 Signature:	Zoning Approval:
Proposed Project Description:		PEDESTRIAN ACTI Action: Appr	VITIES DISTRICT (P.A.D.)	de-shall with
Conduct Outside Dining	- 1997 Season		oved with Conditions:	Special Zone or Reviews:
conduct outside bining	- 1997 Season	Deni	ed 🗌	UWetland Ga
		Signature:	Date:	Subdivision
Permit Taken By:	Date Applied For:			Site Plan maj Elminor Dmm
Mary Gresik		27 May 1997		Zoning Appeal W -
1. This permit application does not preclude th	e Applicant(s) from meeting applicable	State and Federal rules.		Divariance Sole walk
2. Building permits do not include plumbing,	septic or electrical work.			Conditional Use be KepT
<ol> <li>Building permits are void if work is not star tion may invalidate a building permit and s</li> </ol>		ssuance. False informa-		Dinterpretation Click for Approved The Regist
		9.8 -		Historic Preservation
		s <b>M</b> 144	Window Stranger	■ Does Not Require Review □ Requires Review
				Action:
	CERTIFICATION			Appoved
I hereby certify that I am the owner of record of authorized by the owner to make this applicatio				
if a permit for work described in the application areas covered by such permit at any reasonable		de(s) applicable to such perm	nit	Date: 6/19/17
Hun I.K.	1	#2 19 gune C	17	
SIGNATURE OF APPLICANT George Ka	ado ADDRESS: Porten	1, ME DATE:	PHONE:	18. Huduns
			DUONE	
RESPONSIBLE PERSON IN CHARGE OF WO	NN, IIILE		PHONE:	CEO DISTRICT
White-	Permit Desk Green–Assessor's Ca	inary-D.P.W. Pink-Public	File Ivory Card-Inspector	A. Powe

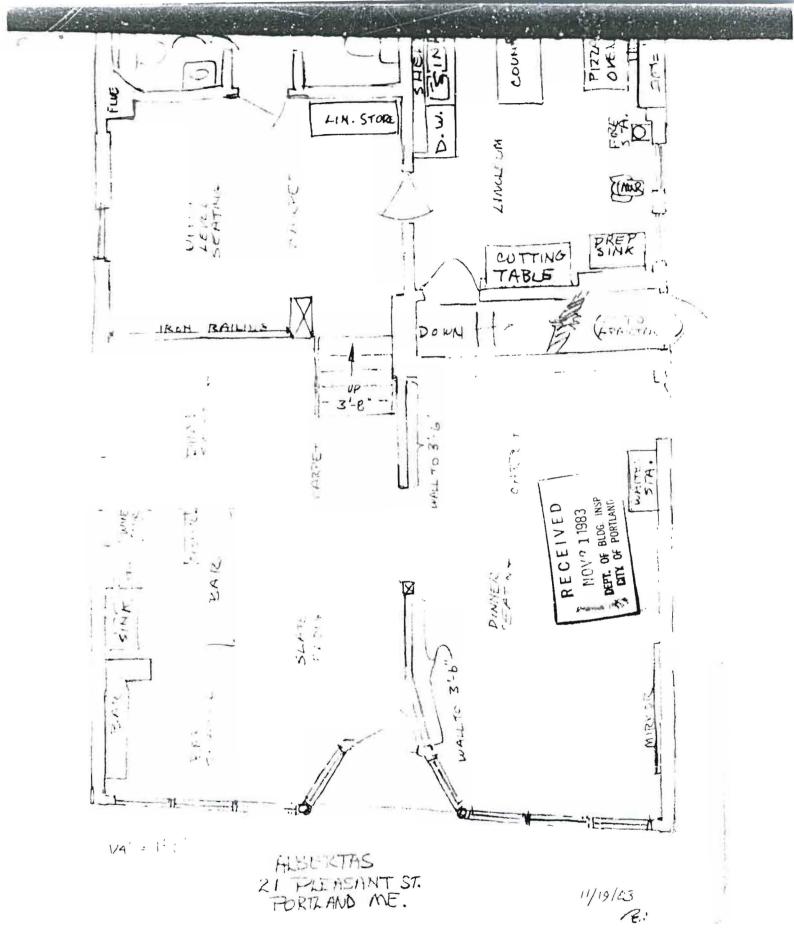
### City of Portland, Maine – Building or Use Permit Application 389 Congress Street, 04101, Tel: (207) 874-8703, FAX: 874-8716

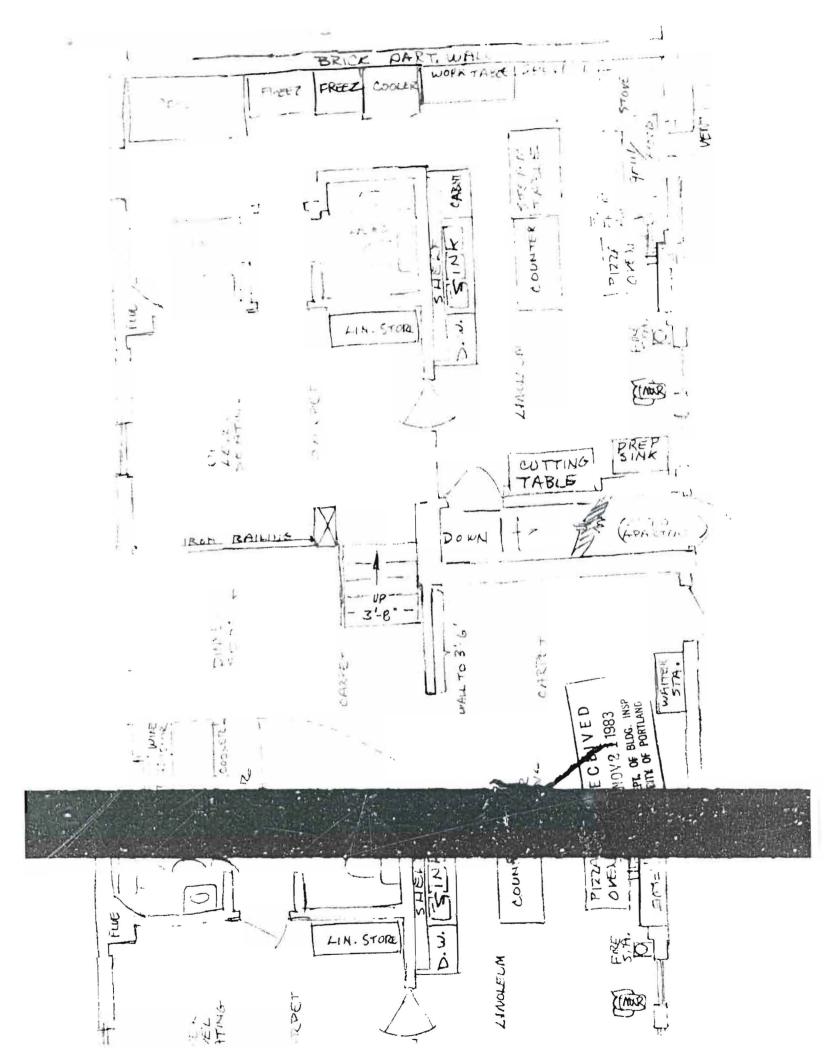


City of Portland, Maine	· Building or Use Permit		Permit No:	Date Applied For:	CBL:
	Tel: (207) 874-8703, Fax: (2		05-1117	08/01/2005	038 E024001
ocation of Construction:	Owner Name:		Owner Address:		Phone:
21 Pleasant St	Steinberg Henry		11 Joanne Dr		() 899-3014
lusiness Name:	Contractor Name:		Contractor Address:		Phone
	Owner		Portland		
.essee/Buyer's Name	Phone:		Permit Type:		
			Change of Use - (	Commercial	
roposed Use:		Propose	d Project Description:		
multi-use commercial building commercial space)	(8 residential units and 1		rt one residential ur ng into two resident	nit on 3rd floor of mi ial units	ulti-use commercial
Dept: Zoning Stat	us: Approved with Conditions	s Reviewer:	Marge Schmucka	al Approval D	ate: 08/26/2005 Ok to Issue:
<ol> <li>Note:</li> <li>This property shall remain with the issuance of this pe separate permit application</li> <li>ANY exterior work require</li> </ol>	an eight (8) family dwelling wi rmit and subsequent issuance of for review and approval. s a separate review and approva	ith commercial I f certificates of ( al thru Historic I	Pedestrian Activity occupancy. Any fut Preservation	District (PAD) uses ture change of use sh	Ok to Issue:
<ol> <li>Note:</li> <li>This property shall remain with the issuance of this pe separate permit application</li> <li>ANY exterior work require</li> </ol>	an eight (8) family dwelling wi rmit and subsequent issuance of for review and approval.	ith commercial I f certificates of ( al thru Historic I	Pedestrian Activity occupancy. Any fut Preservation	District (PAD) uses ture change of use sh	Ok to Issue:
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<ul> <li>Note:</li> <li>1) This property shall remain with the issuance of this perseparate permit application</li> <li>2) ANY exterior work require</li> <li>3) This permit is being approvision work.</li> <li>Dept: Building State</li> <li>Note:</li> <li>1) Bedroom A2 as shown on t</li> <li>2) Both units must have Smoke</li> </ul>	an eight (8) family dwelling wi rmit and subsequent issuance of for review and approval. s a separate review and approva red on the basis of plans submit tus: Approved with Conditions	ith commercial I f certificates of d al thru Historic I tted. Any deviat s <b>Reviewer:</b> om a non-sleepir compliance with	Pedestrian Activity occupancy. Any fut Preservation ions shall require a Mike Nugent g room, therefore a "new Construction	District (PAD) uses ture change of use sh separate approval b Approval D must have at least on " standards.	Ok to Issue:       □         on the first floor       nall require a         efore starting that       09/12/2005         Ok to Issue:       ☑         e egress window.
<ul> <li>Note:</li> <li>1) This property shall remain with the issuance of this perseparate permit application</li> <li>2) ANY exterior work require</li> <li>3) This permit is being approvised work.</li> <li>Dept: Building State</li> <li>Note:</li> <li>1) Bedroom A2 as shown on t</li> <li>2) Both units must have Smok One in each sleeping room,</li> </ul>	an eight (8) family dwelling wi rmit and subsequent issuance of for review and approval. s a separate review and approva- red on the basis of plans submit <b>tus:</b> Approved with Conditions he plans has been converted from the detectors installed to reflect of	ith commercial I f certificates of e al thru Historic I tted. Any deviat s <b>Reviewer:</b> om a non-sleepir compliance with coneected within	Pedestrian Activity occupancy. Any fut Preservation ions shall require a Mike Nugent g room, therefore p "new Construction of the unit to house	District (PAD) uses ture change of use sh separate approval b <b>Approval D</b> must have at least on " standards. current w/battery bac	Ok to Issue:       □         on the first floor       nall require a         all require a       a         efore starting that       a         ate:       09/12/2005         Ok to Issue:       ✓         e egress window.
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<ul> <li>Note:</li> <li>1) This property shall remain with the issuance of this perseparate permit application</li> <li>2) ANY exterior work require</li> <li>3) This permit is being approvision work.</li> <li>Dept: Building State</li> <li>1) Bedroom A2 as shown on t</li> <li>2) Both units must have Smok One in each sleeping room,</li> <li>3) The door into Bedromm B</li> </ul>	an eight (8) family dwelling wi rmit and subsequent issuance of for review and approval. s a separate review and approva- red on the basis of plans submit <b>us:</b> Approved with Conditions the plans has been converted from the detectors installed to reflect of one in the common areas intered as shown on the plan cannot b <b>us:</b> Approved with Conditions	ith commercial I f certificates of e al thru Historic I tted. Any deviat s <b>Reviewer:</b> om a non-sleepir compliance with coneected within re subject to lock	Pedestrian Activity occupancy. Any fut Preservation ions shall require a Mike Nugent g room, therefore p "new Construction the unit to house king as it accesses t	District (PAD) uses ture change of use sh separate approval b <b>Approval D</b> must have at least on " standards. current w/battery bac he fire escape.	Ok to Issue:       □         on the first floor       all require a         all require a       a         efore starting that       a         ate:       09/12/2005         Ok to Issue:       ✓         e egress window.       ck up

Comments:	
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9/6/2005-gg: received partial exemption. /gg





Pu	In the				
10	TABLE 5.5-6	Building	Envelope Require	ements For	Climate Zone 6 (
		Nor	residential	R	esidential
	Opaque Elements	Assembly Maximum	Insulation Min. R-Value	Assembly Maximum	Insulation Min. R-Value
Roofs					
	Insulation Entirely above Deck	U-0.048	R-20.0 c.i.	U-0.048	R-20.0 c.i.
	Metal Building <sup>a</sup>	<del>U-0.065</del> <u>U-0.049</u>	<del>R-19.0</del> <u>R-13.0 · R-19.0</u>	<del>U-0.065</del> <u>L'-0.049</u>	<del>R-19.0</del> <u>R-13.0 + R-19.0</u>
	Attic and Other	U-0.027	R-38.0	U-0.027	R-38.0
Walls, A	Ibove-Grade	And the second			
	Mass	U-0.080	R-13.3 c.i.	U-0.071	R-15.2 c.i.
	Metal Building	<del>U-0.113</del> <u>U-0.069</u>	<del>R 13.0</del> <u>R-13.0 + R-5.6 c.i.</u>	U-0.057 U-0.069	<del>R 13.0 + R-13.0</del> <u>R-13.0 + R-5.6 c.i</u>
	Steel-Framed	U-0.064	R-13.0 + R-7.5 c.i.	U-0.064	R-13.0 + R-7.5 c.i
	Wood-Framed and Other	U-0.051	R-13.0 + R-7.5 c.i.	U-0.051	R-13.0 + R-7.5 c.i
Walls, E	Below-Grade				
	Below-Grade Wall	C-0.119	R-7.5 c.i.	C-0.119	R-7.5 c.i.
Floors					
	Mass	U-0.064	R-12.5 c.i.	U-0.057	R-14.6 c.i.
	Steel-Joist	U-0.038	R-30.0	U-0.032	R-38.0
	Wood-Framed and Other	U-0.033	R-30.0	U-0.033	R-30.0
Slab-Or	1-Grade Floors				
	Unheated	F-0.540	R-10 for 24 in.	F-0.520	R-15 for 24 in.
	Heated	F-0.860	R-15 for 24 in.	F-0.688	R-20 for 48 in.
Орадие	Doors				
	Swinging	U-0.700		U-0.500	

ate Zone 6 (A, B)\*

Roofs						
Insulation Entirely above Deck	U-0.048	R-20.0 c.i.	U-0.048	R-20.0 c.i.	U-0.093	R-10.0 c.i.
Metal Building <sup>a</sup>	<del>U-0.065</del>	<del>R-19.0</del>	<del>U-0.065</del>	<del>R-19.0</del>	<del>U 0.097</del>	R 10.0
Metal Bullung-	<u>U-0.049</u>	<u>R-13.0 R-19.0</u>	<u>U-0.049</u>	<u>R-13.0 + R-19.0</u>	<u>U-0.072</u>	<u>R-16.0</u>
Attic and Other	U-0.027	R-38.0	U-0.027	R-38.0	U-0.034	R-30.0
Walls, Above-Grade						
Mass	U-0.080	R-13.3 c.i.	U-0.071	R-15.2 c.i.	U-0.151 <sup>a</sup>	R-5.7 c.i. <sup>a</sup>
Metal Building	<del>U-0.113</del>	<del>R 13.0</del>	<del>U 0.057</del>	<del>R 13.0 + R-13.0</del>	U-0.113	R-13.0
	<u>U-0.069</u>	R-13.0 + R-5.6 c.i.	<u>U-0.069</u>	R-13.0 + R-5.6 c.i.		
Steel-Framed	U-0.064	R-13.0 + R-7.5 c.i.	U-0.064	R-13.0 + R-7.5 c.i.	U-0.124	R-13.0
Wood-Framed and Other	U-0.051	R-13.0 + R-7.5 c.i.	U-0.051	R-13.0 + R-7.5 c.i.	U-0.089	R-13.0
Walls, Below-Grade						
Below-Grade Wall	C-0.119	R-7.5 c.i.	C-0.119	R-7.5 c.i.	C-1.140	NR
Floors						
Mass	U-0.064	R-12.5 c.i.	U-0.057	R-14.6 c.i.	U-0.137	R-4.2 c.i.
Steel-Joist	U-0.038	R-30.0	U-0.032	R-38.0	U-0.052	R-19.0
Wood-Framed and Other	U-0.033	R-30.0	U-0.033	R-30.0	U0051	R-19.0
Slab-On-Grade Floors						
Unheated	F-0.540	R-10 for 24 in.	F-0.520	R-15 for 24 in.	F-0.730	NR
Heated	F-0.860	R-15 for 24 in.	F-0.688	R-20 for 48 in.	F-1.020	R-7.5 for 12 in
Opaque Doors						
Swinging	U-0.700		U-0.500		U-0.700	
Nonswinging	U-0.500		U-0.500		U-1.450	
Fenestration	Assembly	Assembly Max.	Assembly	Assembly Max.	Assembly	Assembly Max
	Max. U	SHGC	Max. U	SHGC	Max. U	SHGC
Vertical Glazing, 0%-40% of Wall	Max. U	5	2	5	5	
Vertical Glazing, 0%–40% of Wall Nonmetal framing (all) <sup>bc</sup>	Max. U U-0.35	5	2	5	5	
		5	Max. U	5	Max. U	
Nonmetal framing (all) <sup>bc</sup> Metal framing (curtainwall/storefront) <sup>ed</sup>	U-0.35	SHGC	Max. U U-0.35	SHGC	Max. U	SHGC
Nonmetal framing (all) <sup>bc</sup> Metal framing (curtainwall/storefront) <sup>ed</sup> Metal framing (entrance door) <sup>ed</sup>	U-0.35 U-0.45	SHGC	Max. U U-0.35 U-0.45	SHGC	Max. U U-0.65 U-0.60	SHGC
Nonmetal framing (all) <sup>bc</sup> Metal framing (curtainwall/storefront) <sup>ed</sup> Metal framing (entrance door) <sup>ed</sup> Metal framing (all other) <sup>ed</sup>	U-0.35 U-0.45 U-0.80	SHGC	Max. U U-0.35 U-0.45 U-0.80	SHGC	Max. U U-0.65 U-0.60 U-0.90	SHGC
Nonmetal framing (all) <sup>bc</sup> Metal framing (curtainwall/storefront) <sup>ed</sup> Metal framing (entrance door) <sup>ed</sup> Metal framing (all other) <sup>ed</sup>	U-0.35 U-0.45 U-0.80	SHGC	Max. U U-0.35 U-0.45 U-0.80	SHGC	Max. U U-0.65 U-0.60 U-0.90	SHGC
Nonmetal framing (all) <sup>bc</sup> Metal framing (curtainwall/storefront) <sup>ed</sup> Metal framing (entrance door) <sup>ed</sup> Metal framing (all other) <sup>ed</sup> Skylight with Curb, Glass. % of Roof	U-0.35 U-0.45 U-0.80 U-0.55	SHGC-0.40 all	Max. U U-0.35 U-0.45 U-0.80 U-0.55	SHGC-0.40 all	Max. U U-0.65 U-0.60 U-0.90 U-0.65	SHGC-NR al
Nonmetal framing (all) <sup>bc</sup> Metal framing (curtainwall/storefront) <sup>ed</sup> Metal framing (entrance door) <sup>ed</sup> Metal framing (all other) <sup>ed</sup> Skylight with Curb, Glass. % of Roof 0%-2.0% 2.1%-5.0%	U-0.35 U-0.45 U-0.80 U-0.55 U <sub>all</sub> -1.17	SHGC-0.40 all	Max. U U-0.35 U-0.45 U-0.80 U-0.55 U <sub>all</sub> -0.98	SHGC-0.40 all	Max. U U-0.65 U-0.60 U-0.90 U-0.65 U <sub>all</sub> -1.98	SHGC-NR al
Nonmetal framing (all) <sup>bc</sup> Metal framing (curtainwall/storefront) <sup>ed</sup> Metal framing (entrance door) <sup>ed</sup> Metal framing (all other) <sup>ed</sup> Skylight with Curb, Glass. % of Roof 0%-2.0% 2.1%-5.0% Skylight with Curb, Plastic, % of Roof	U-0.35 U-0.45 U-0.80 U-0.55 U <sub>all</sub> -1.17	SHGC-0.40 all	Max. U U-0.35 U-0.45 U-0.80 U-0.55 U <sub>all</sub> -0.98	SHGC-0.40 all	Max. U U-0.65 U-0.60 U-0.90 U-0.65 U <sub>all</sub> -1.98	SHGC-NR al
Nonmetal framing (all) <sup>bc</sup> Metal framing (curtainwall/storefront) <sup>ed</sup> Metal framing (entrance door) <sup>ed</sup> Metal framing (all other) <sup>ed</sup> Skylight with Curb, Glass. % of Roof 0%–2.0% Skylight with Curb, Plastic, % of Roof 0%–2.0%	U-0.35 U-0.45 U-0.80 U-0.55 U <sub>all</sub> -1.17 U <sub>all</sub> -1.17	SHGC-0.40 all SHGC <sub>all</sub> -0.49 SHGC <sub>all</sub> -0.49	Max. U U-0.35 U-0.45 U-0.80 U-0.55 U <sub>all</sub> -0.98 U <sub>all</sub> -0.98	SHGC-0.40 all SHGC <sub>all</sub> -0.46 SHGC <sub>all</sub> -0.36	Max. U U-0.65 U-0.60 U-0.90 U-0.65 U <sub>all</sub> =1.98 U <sub>all</sub> =1.98	SHGC-NR al SHGCall-NR SHGCall-NR
Metal framing (curtainwall/storefront) <sup>ed</sup> Metal framing (entrance door) <sup>ed</sup> Metal framing (all other) <sup>ed</sup> Skylight with Curb, Glass. % of Roof 0%-2.0% 2.1%-5.0% Skylight with Curb, Plastic, % of Roof 0%-2.0% 2.1%-5.0%	U-0.35 U-0.45 U-0.80 U-0.55 U <sub>all</sub> -1.17 U <sub>all</sub> -1.17 U <sub>all</sub> -0.87	SHGC-0.40 all SHGC <sub>all</sub> -0.49 SHGC <sub>all</sub> -0.49 SHGC <sub>all</sub> -0.71	Max. U U-0.35 U-0.45 U-0.80 U-0.55 U <sub>all</sub> -0.98 U <sub>all</sub> -0.98 U <sub>all</sub> -0.74	SHGC-0.40 all SHGC <sub>all</sub> -0.46 SHGC <sub>all</sub> -0.36 SHGC <sub>all</sub> -0.65	Max. U U-0.65 U-0.60 U-0.90 U-0.65 U <sub>all</sub> -1.98 U <sub>all</sub> -1.98 U <sub>all</sub> -1.99	SHGC-NR al SHGC-NR al SHGC <sub>all</sub> -NR SHGC <sub>all</sub> -NR
Nonmetal framing (all) <sup>bc</sup> Metal framing (curtainwall/storefront) <sup>ed</sup> Metal framing (entrance door) <sup>ed</sup> Metal framing (all other) <sup>ed</sup> Skylight with Curb, Glass. % of Roof 0%-2.0% Skylight with Curb, Plastic, % of Roof 0%-2.0%	U-0.35 U-0.45 U-0.80 U-0.55 U <sub>all</sub> -1.17 U <sub>all</sub> -1.17 U <sub>all</sub> -0.87	SHGC-0.40 all SHGC <sub>all</sub> -0.49 SHGC <sub>all</sub> -0.49 SHGC <sub>all</sub> -0.71	Max. U U-0.35 U-0.45 U-0.80 U-0.55 U <sub>all</sub> -0.98 U <sub>all</sub> -0.98 U <sub>all</sub> -0.74	SHGC-0.40 all SHGC <sub>all</sub> -0.46 SHGC <sub>all</sub> -0.36 SHGC <sub>all</sub> -0.65	Max. U U-0.65 U-0.60 U-0.90 U-0.65 U <sub>all</sub> -1.98 U <sub>all</sub> -1.98 U <sub>all</sub> -1.99	SHGC-NR al SHGC-NR al SHGC <sub>all</sub> -NR SHGC <sub>all</sub> -NR

 The following definitions apply: c.1. = continuous insulation (see Section 3.2), NR = no (insulation) requirement.
 When using R-value compliance method, a thermal spacer block is required; otherwise use the U-factor compliance method. See Table A2.3.
 Exception to Section A3.1.3.1 applies.
 Nonmetal framing includes framing materials other than metal with or without metal reinforcing or cladding.
 Added I framing includes metal framing with or without thermal break. The "all other" subcategory includes operable windows, fixed windows, and nonentrance doors.

Semiheated

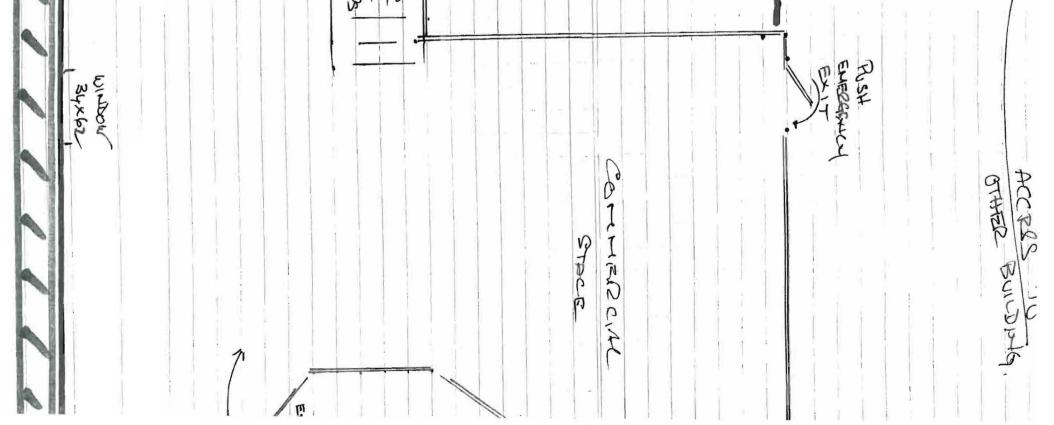
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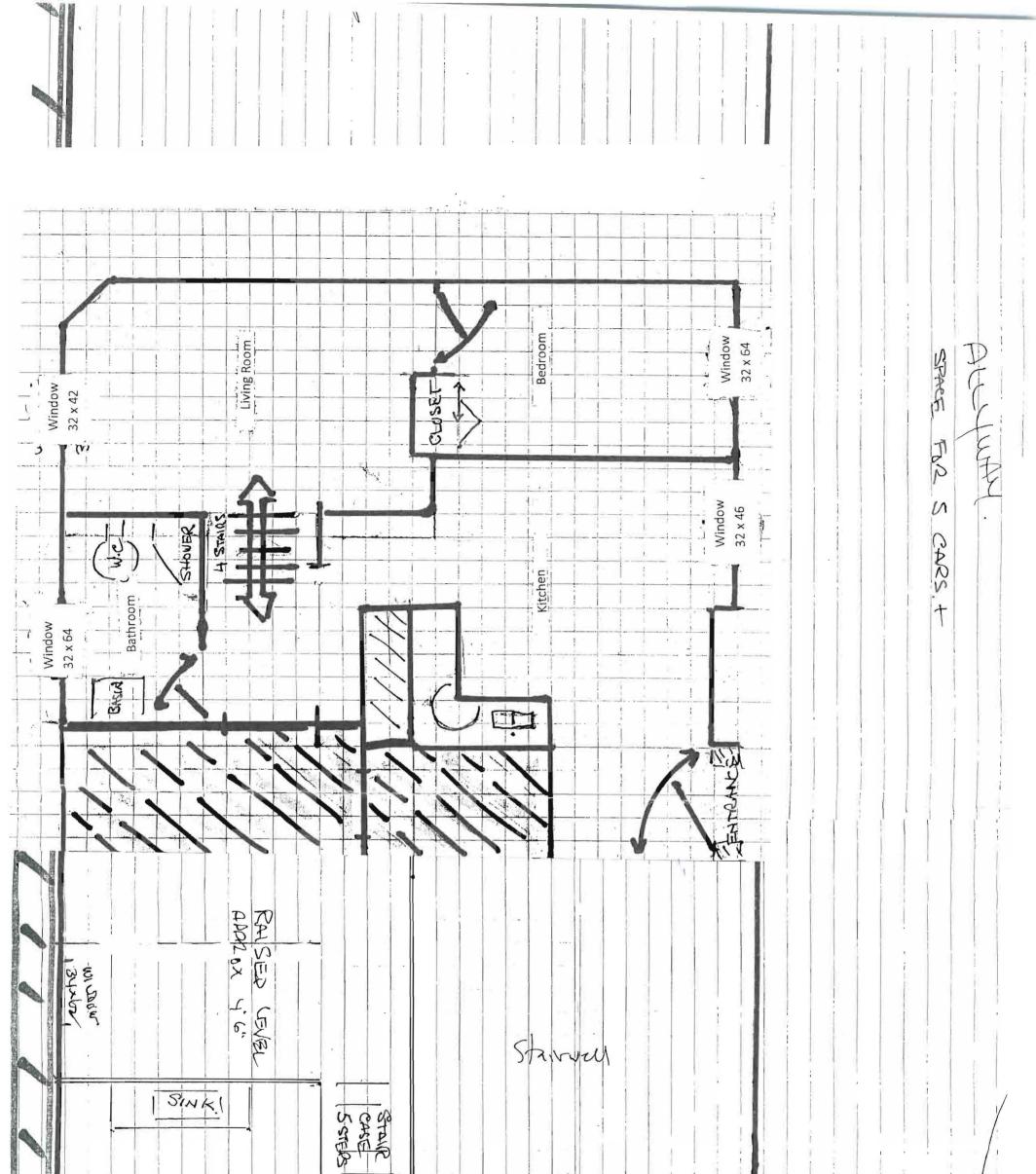
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