

02-0826

# All Purpose Building Permit Application

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

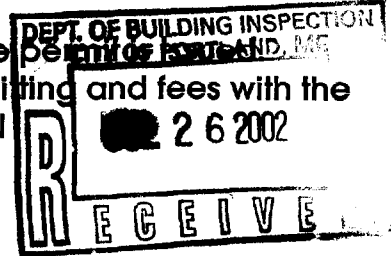
Location/Address of Construction: <u>552 Brighton Ave, Portland, ME</u>		
Total Square Footage of Proposed Structure	Square Footage of Lot	
Tax Assessor's Chart, Block & Lot Chart# <u>185</u> Block# <u>D</u> Lot# <u>013</u>	Owner: <u>Glen Murray</u>	Telephone: <u>775-1110</u>
Lessee/Buyer's Name (if Applicable)	Applicant name, address & telephone:	Cost Of Work: \$ <u>25,000</u> Fee: \$ <u>198.00</u>
Current use: <u>Single Family Home</u>		
If the location is currently vacant, what was prior use: _____		
Approximately how long has it been vacant: _____		
Proposed use: _____		
Project description: <u>Remodel Kitchen &amp; Dining Rm, Tear out &amp; Replace Kitchen Cabinets, Tear out plaster walls, Install steel beam under 1st floor, Add Extra floor joists to second floor, strip ceiling, install →</u>		
Contractor's name, address & telephone: <u>Stephen D. Braun Building &amp; Remodeling, 39 South Freeport Rd, Freeport, ME 04032 865-6674</u>		
Who should we contact when the permit is ready: <u>Stephen D. Braun</u> xx		
Mailing address: <u>39 So. Freeport Rd, Freeport, ME 04032</u>		
We will contact you by phone when the permit is ready. You must come in and pick up the permit and review the requirements before starting any work, with a Plan Reviewer. A stop work order will be issued and a \$100.00 fee if any work starts before the permit is picked up. PHONE: <u>865-6674</u> xx <u>Call</u>		

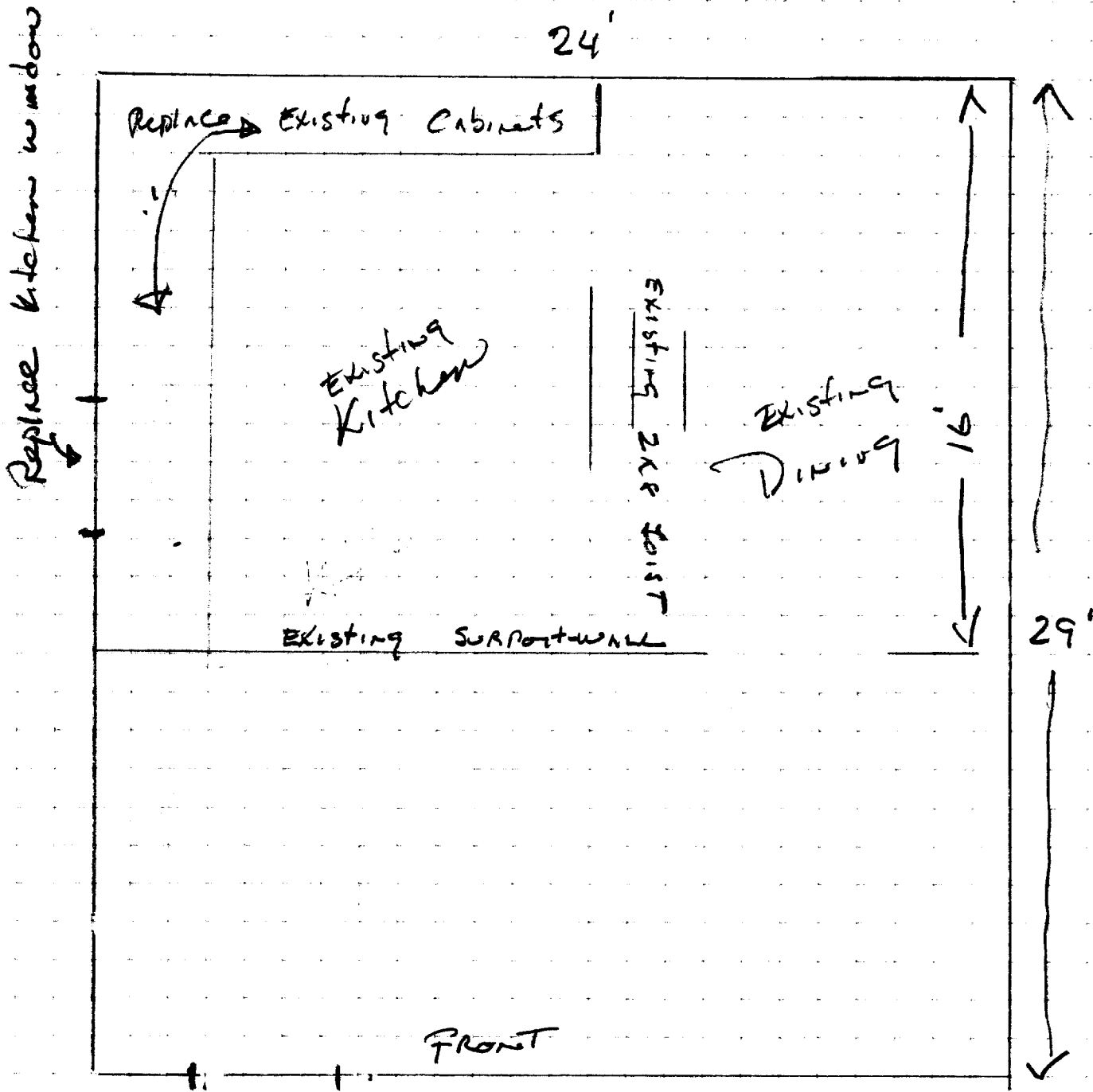
IF THE REQUIRED INFORMATION IS NOT INCLUDED IN THE SUBMISSIONS THE PERMIT WILL BE AUTOMATICALLY DENIED AT THE DISCRETION OF THE BUILDING/PLANNING DEPARTMENT, WE MAY REQUIRE ADDITIONAL INFORMATION IN ORDER TO APPROVE THIS PERMIT.

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

Signature of applicant: <u>Stephen Braun</u>	Date: <u>7-25-02</u>
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This is NOT a permit, you may not commence ANY work until the permit is issued and fees with the Planning Department on the 4th floor of City Hall





GLANN MURRAY 775 1110

552 BRIGHTON AVE

STEVE BRANN Builder 851 2844

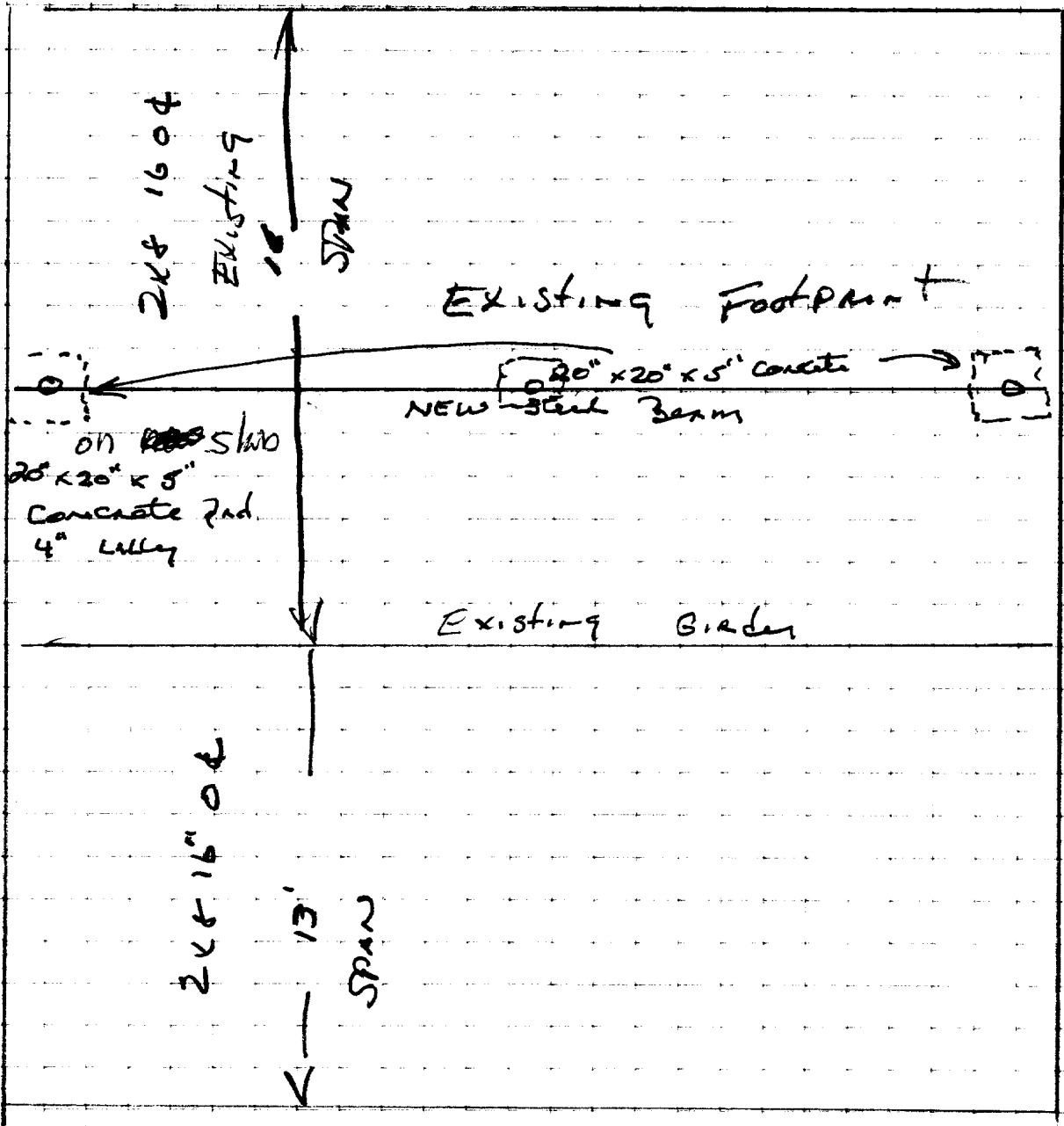
EXISTING 2x8 JOIST SUPPORT 2ND FLOOR. WE INTEND TO ADD 7/4 LVL TO EACH JOIST TO HELP TAKE BOUNCES OUT OF FLOOR SYSTEM!

552

24'

9'8" K

8x8" x 20lb per Ft. Steel  
MEQUINE FORMS SPEC



29'

24'  
FRONT

552

BRIGHTON AVE

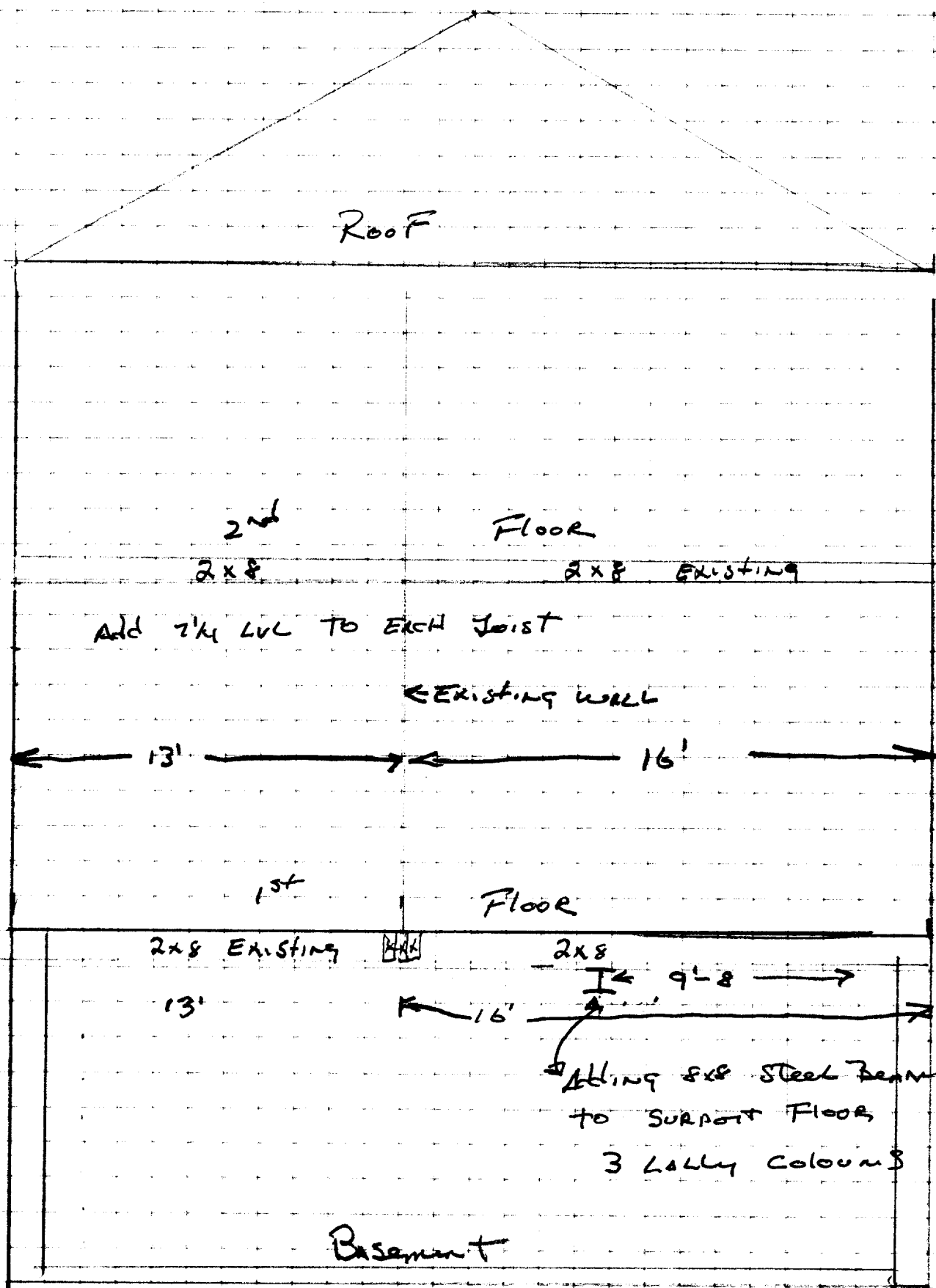
1<sup>st</sup> FLOOR PLAN

GLENN MURRAY Home owner  
STEEL BEAM BUILDER 856-2844

GLENN MURRAY  
552 BRIGHTON AVE

Kitchen Remodel

STOVE BRANN Builder 851-2844



BRIGHTON AVE

7-26-02

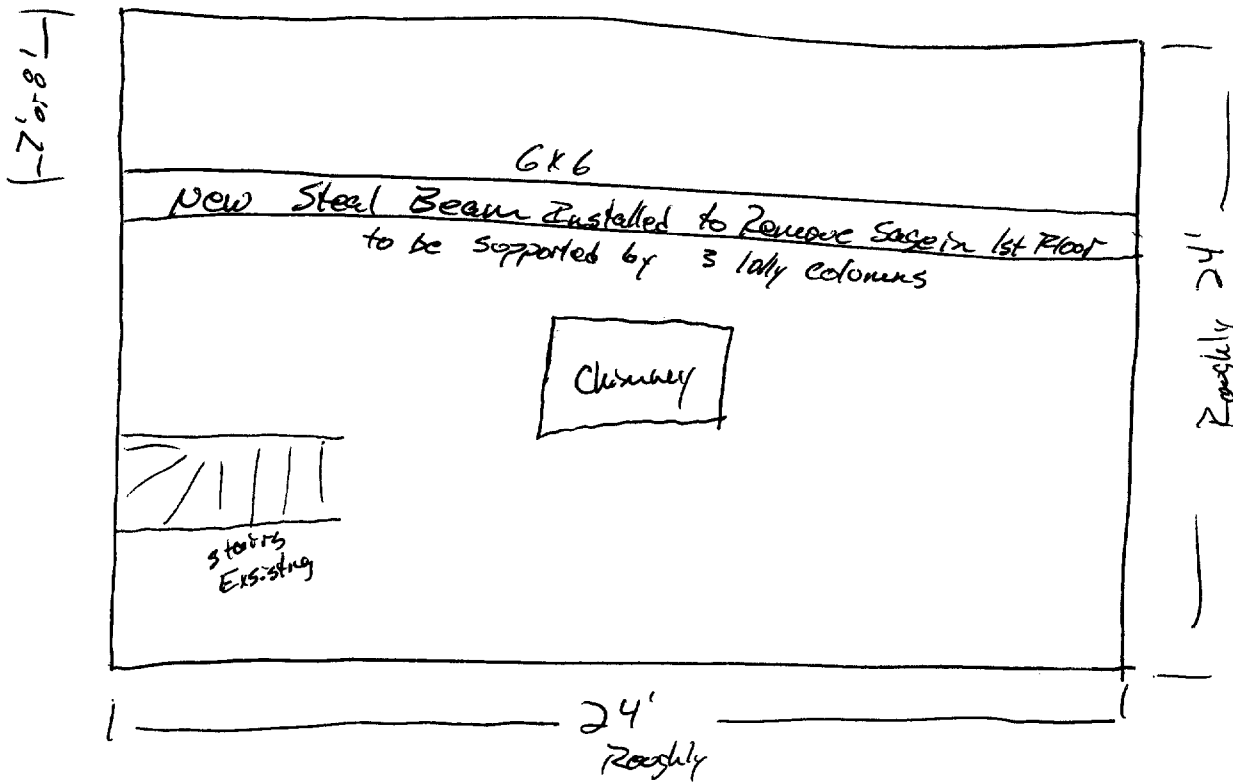
Kitchen Remodel @ 550 Brighton Ave, Portland

by Stephen D. Braun Building & Remodeling

39 South Freeport Rd, Freeport ME 04032

865-6674

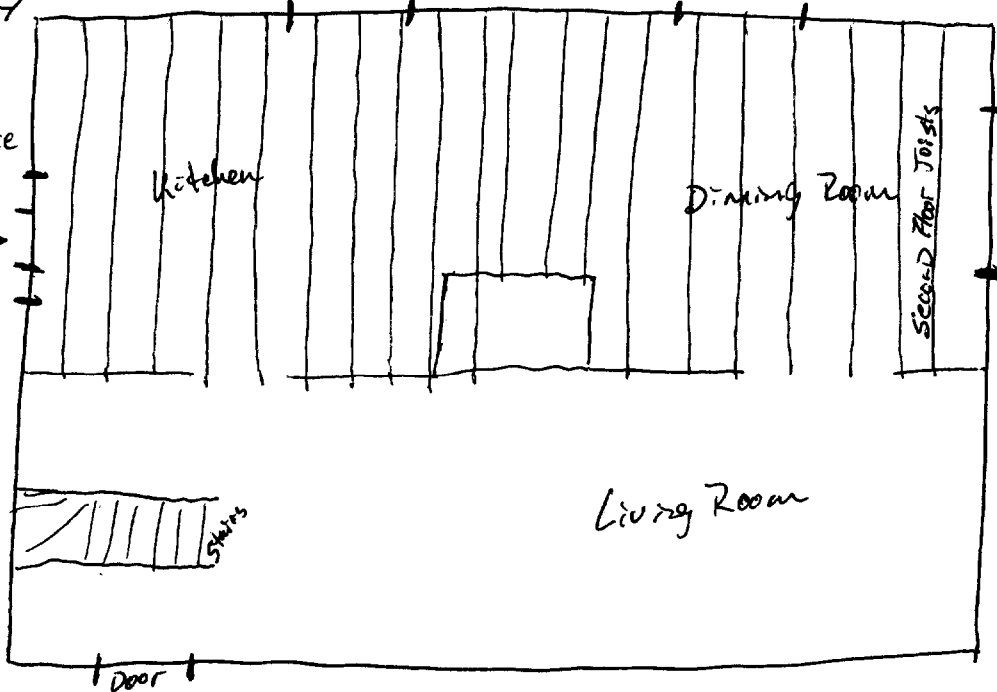
Basement



10'-3" to Prop. Line

First Floor

New Kitchen Bay  
 Window to Replace  
 Old window. New  
 window will use  
 2x4 Framing  
 2x8 Framing  
 2x6 Roof Frame  
 For window Roof  
 Window will be  
 Roughly 3'x3'



The second Floor  
 Joists will be  
 Joined by 2x8  
 Purlines to Help  
 Take Sag out of  
 Second Floor. They  
 are not Replacing  
 Current Floor Joists  
 They are only adding  
 To Existing ones

New Kitchen Cabinets will be installed along with a New Soffit.

NUCOR STEEL - BERKELEY  
 P.O. Box 2259  
 Ft. Pleasant, S.C. 29464  
 Phone: (843) 336-6000

SEP 17 2001

NUCOR  
 PO 3084  
 J-40

MILL TEST REPORT

9/11/01 12:36:1  
 100% MELTED AND MANUFACTURED IN THE USA  
 All beams produced by Nucor-Berkeley are cast and  
 rolled to a fully killed and fine grain practice

Sold To: MEGQUIER & JONES CORP.  
 1156 BROADWAY

Ship To: MEGQUIER & JONES CORP.  
 1156 BROADWAY

SOUTH PORTLAND, ME 04106

SOUTH PORTLAND, ME 04106

Customer #: 434 - 1  
 Customer PO: R3084  
 B.O.L. #: 189438  
 Invoice #: 253864

SPECIFICATIONS: Tested in accordance with ASTM specification A6/A6M and A370.  
 AASHTO : M270-36  
 ASTM : A992-00/A36-00A/A572-00-50/A709-00-50/A709-01-36/A709-01-50  
 CSA : G30.21-50W

Description	Heat# Grade (s) Test	Yield/ Tensile Ratio	Yield (PSI) (MPa)	Tensile (PSI) (MPa)	Elong %	C Cr Fe	Mn Mo Ti	P Sb Ca	S Al B	Si V N	Cu Nb Zr	Ni +Ni+Cu CI	CE1 CE2 FCM
10x12 040' 00.00" W240x17.9 012.1920m	1108830 A992-00	.79	51600 355	65700 453	27.31	.0690 .0370 .0001	.0440 .0060 .0013	.0115 .0060 .0001	.0165 .0001 .0010	.2200 .0001 .0059	.1090 .0119 .0000	.0390 3.1071	.2291 -.2670 .1318
12x26 035' 00.00" W310X38.7 010.6680m	2110267 A992-00	.79	54100 372	68600 473	25.36	.0670 .0250 .0012	.0860 .0030 .0010	.0067 .0043 .0008	.0253 .0012 .0001	.1880 .0009 .0078	.0750 .0276 .0000	.0320 2.3275	.2142 -.2511 .1199
12x26 035' 00.00" W310X38.7 010.6680m	2110269 A992-00	.81	56800 392	70100 493	21.05	.0750 .0310 .0020	.0170 .0030 .0010	.0099 .0043 .0006	.0273 .0015 .0001	.2270 .0011 .0047	.0740 .0290 .0000	.0310 2.3892	.2252 -.2688 .1300
6x20 040' 00.00" W150X29.9 012.1920m	2108123 A992-00	.79	53600 370	67600 466	25.34	.0700 .0340 .0037	.0590 .0090 .0012	.0095 .0057 .0001	.0227 .0001 .0008	.2120 .0008 .0053	.1010 .0330 .0000	.0340 2.9112	.2308 -.2727 .1319

4 Heat(s) for this MTR.

Elongation based on 8" (20.32cm) gauge length.

$$CI = 26.01Cu + 3.66Ni + 1.20Cr + 1.49Si + 17.26P - (7.29Cu + Ni) - (9.10Ni + P) - 33.39(Cu + Cr)$$

$$FCM = C + (Si/30) + (Mn/20) + (Cu/20) + (Ni/60) + (Cr/20) + (Mo/15) + (V/10) + 5B$$

$$CE1 = C + (Mn/6) + ((Cr + Mo + V)/5) + ((Ni + Cu)/15)$$

$$CE2 = C + ((Mn + Si)/6) + ((Cr + Mo + V + Nb)/5) + ((Ni + Cu)/15)$$

I hereby certify that the contents of this report are accurate and correct. All test results and operations performed by the material manufacturer are in compliance with material specifications, and when designated by the Purchaser, meet applicable specifications.

Bruce A. Work  
 Metallurgist

08-07-02



# Engineering Calculations Transmittal

Date: 8/7/02  
 By: Jim Oliver  
 856-598-5565  
 Location  
 Block: Lot:  
 Address: State: City: Zip:

To Name: Glen Murray  
 Company:  
 Address:  
 City: State: Zip:  
 Phone: Fax: 207-874-0029  
 E-Mail:

The analysis following this sheet is output from software developed by Trus Joist. Allowable product values shown are in accordance with current TJ materials and code accepted design values. The input loads and dimensions have been provided by others and must be verified and approved for the specific application by the design professional for the project.

1. Product analyzed including no. of piles and o.c. spacing.
2. Span conditions including simple span, continuous span and cantilevers as well as graphical representation of input loads.
3. Application load information includes application type, load classification, load duration factor, standard live & dead load.
4. Special loads applied to member. Loads include uniform, concentrated, triangular or snowdrift and can replace or be added to the application loads.
5. Bearing location information including total load and live load reactions, input bearing type and length, and bearing length, as well as specifier details
6. Hanger information including location and type of hanger sized for the member with minimum required nailing.
7. Holes considered in this analysis.
8. Analysis information including shear, reaction, moment, live load and total load deflection.
  - Maximum- Maximum moment and shear from all load cases.
  - Design- The critical value used for design.
  - Allowable- The allowable values for the member and selected parameters.
  - Design- The critical value used for design
9. Deflection Criteria used for design.
  - Minimum- The minimum deflection allowed by the specified code.
  - Standard- TJM minimum recommended deflection criteria.
  - High- TJM recommended deflection criteria.
  - Specified- User input deflection criteria.
10. Building Code - Used to design either distributed or custom products

**11.875" T.J.M/Pro™-250 JOIST @ 16.0" o/c** ①

THIS PRODUCT MEETS OR EXCEEDS THE SET DESIGN CONTROLS FOR THE APPLICATION AND LOADS LISTED

**LOADS:**  
 Analysis for JOIST MEMBER Supporting FLOOR - RES. Application. Location: 45 Live at 100% duration, 12 Dead, 8 Partition, and

TYPE	CLASS	UNIF	DEAD	LOCATION	APPLICATION	COMMENT
Particulate	Class 1 (1.5)	300	240	0 to 16'	Add to	RAIN ROOF INCLUDING WALL
Uniformed	Floor (1.0)	40	20	0 to 16'	Replace	ADDITIONAL TILE LOAD
(1) Snowing	Snow (1.15)	700	400	16'	Add to	
Triangular	Floor (1.0)	10 to 10	35 to 12	16' to 16'	Replace	

(1) Analysis assumes loads are passed through to support. Sufficient strength for depth blocking, rim, or squash blocks are required at dropped supports. The eccentricities shown, at the diagram above, have NOT been checked for capacity. Point Loads are included in the adjacent SUPPORTS reactions.

SUPPORTS	INPUT WIDTH	BEARING LENGTH	JUSTIFICATION	REACTIONS (k)		OTHER
				LR	DEAD TOTAL	
1. Reinforced PSL PCC	3.97'	3.97'	Left Face	202 (1.50) / 226 (1.6)	Detail B1	
2. 2x4	3.5'	3.5'	Centered	115 (0.85) / 128 (0.95)	Detail B1	TJM Hanger
3. 2x4	3.5'	3.5'	Centered	85 (0.64) / 94 (0.7)	Detail B3	
4. 2x4	3.5'	3.5'	Right Face	10 (0.1) / 11 (0.1)	Detail C1	TJM Hanger

**MEMBERS:** 1. 11.875" T.J.M/Pro™-250 JOIST @ 16.0" o/c

**LAGS:** 1. 1.75" Parlane PSL may result in lower hanger capacity. See Hanger Manufacturer's literature for revisions.

LAGS	DL	HEIGHT	WIDTH	LEFT END TO HOLE CENTER	SPAN	DESIGN	ALLOW.	COMMENT
1. 1.75" Parlane PSL	2"	25"	25"	25"	2'	210	207	Passes HEAT RUN

DESIGN CONTROLS	MINIMUM	DESIGN	ALLOW.	CONTROL	LOCATION
Shear (k)	531	625	1023	Passed (57%)	RT, Overhang under Snow Roof ALTERNATE open loading
Moment (k-ft)	1485	1457	2535	Passed (72%)	Support 2 under Floor ADJACENT open loading
Moment (k-ft)	2212	2147	4031	Passed (65%)	LT, and Span 2 under Floor ADJACENT open loading
Live Dead (k)	0.184	0.253	Passed (220%)		Mid Span 1 under Snow Roof ALTERNATE open loading
Total Dead (k)	0.088	0.218	Passed (250%)		RT, Overhang under Snow Roof ALTERNATE open loading

**ADDITIONAL NOTES:**

- IMPORTANT! The analysis reported is output from software developed by Trus Joist MacMillan (TJM). Allowable product values shown are in accordance with current TJM materials and code accepted design values. TJM Engineering has verified the analysis. The input loads and dimensions have been provided by others and must be verified and approved for the specific application by the design professional for the project.
- THIS ANALYSIS FOR TRUS JOIST MACMILLAN PRODUCTS ONLY! PRODUCT SUBSTITUTION voids this analysis.
- Adoptive Stress Design methodology was used for Building Code PER according to the TJM Distribution product listed above.
- Bracing/Lag: All compression edges top and bottom must be braced at 3' o/c unless detailed otherwise. Proper Attachment and connections of lateral bracing is required to achieve member stability.
- Right overhang may require bottom CHAM bracing.

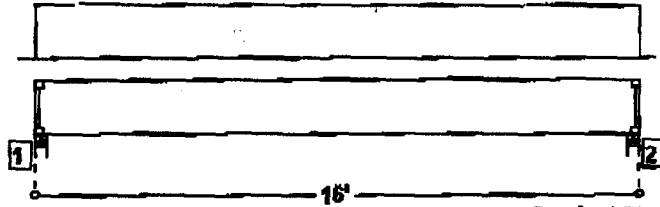
**PROJECT INFORMATION:** EXAMINER RESIDENCE HOUSE ON THE LAKE SECOND FLOOR JOIST

**OPERATOR INFORMATION:** TRUS JOIST MACMILLAN SCOTT LAYOU 164 A CENTRE BOULEVARD HARTFORD, NEW JERSEY 08530 853-882-2333 853-882-2422

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Floor Joist

**1 3/4" x 7 1/4" 1.9E Microllam® LVL @ 16" o/c**  
**MEMBER IS INSUFFICIENT DUE TO LOAD**



Product Diagram is Conceptual.

**LOADS:**

Analysis is for a Joist Member.

Primary Load Group - Residential - Living Areas (psf): 40.0 Live at 100 % duration, 12.0 Dead

**SUPPORTS:**

	Input Width	Bearing Length	Vertical Reactions (lbs) Live/Dead/Uplift/Total	Detail	Other
1	Stud wall 3.50"	3.50"	427 / 128 / 0 / 555	A1: Blocking	1 Ply 1 3/4" 1.3E TimberStrand® LSL
2	Stud wall 3.50"	3.50"	427 / 128 / 0 / 555	A1: Blocking	1 Ply 1 3/4" 1.3E TimberStrand® LSL

-See TJ SPECIFIER'S / BUILDERS GUIDE for detail(s): A1: Blocking

**DESIGN CONTROLS:**

	Maximum	Design	Control	Control	Location
Shear (lbs)	540	-493	2411	Passed (20%)	Rt. end Span 1 under Floor loading
Moment (Ft-Lbs)	2105	2105	3700	Passed (57%)	MID Span 1 under Floor loading
Live Load Defl (in)		0.525	0.390	<del>Failed (L/366)</del>	<del>MID Span 1 under Floor loading</del>
Total Load Defl (in)		0.683	0.779	Passed (L/274)	MID Span 1 under Floor loading
TJPro		18	Any	Passed	Span 1

MIN CODE REQ'S  
 L/360  
 VERY CLOSE

-Deflection Criteria: STANDARD(LL:L/480,TL:L/240).

-Allowable moment was increased for repetitive member usage.

-Deflection analysis is based on composite action with single layer of 19/32", 5/8" Panels (20" Span Rating) GLUED & NAILED wood decking.

-Bracing(Lu): All compression edges (top and bottom) must be braced at 7' 4" o/c unless detailed otherwise. Proper attachment and positioning of lateral bracing is required to achieve member stability.

**TJ-Pro RATING SYSTEM**

-The TJ-Pro Rating System value provides additional floor performance information and is based on a GLUED & NAILED 19/32", 5/8" Panels (20" Span Rating) decking. The controlling span is supported by walls. Additional considerations for this rating include: Ceiling - None. A structural analysis of the deck has not been performed by the program. Comparison Value: 2.05

**ADDITIONAL NOTES:**

-IMPORTANT! The analysis presented is output from software developed by Trus Joist (TJ). Allowable product values shown are in accordance with current TJ materials and code accepted design values. TJ Engineering has verified the analysis. The input loads and dimensions have been provided by others ( ) and must be verified and approved for the specific application by the design professional for the project.

-THIS ANALYSIS FOR TRUS JOIST PRODUCTS ONLY! PRODUCT SUBSTITUTION VOIDS THIS ANALYSIS.

-Allowable Stress Design methodology was used for Building Code NER analyzing the TJ Distribution product listed above.

-Warning: Span exceeds Residential Specifier's Guide span (L/480 table).

**PROJECT INFORMATION:**

Glen Murray

**OPERATOR INFORMATION:**

Jim Oliver  
 TrusJoist, A Weyerhaeuser Company  
 104A Centre Blvd  
 Marlton, New Jersey 08053  
 Phone : 1-856-595-5555 x3021  
 Fax : 1-856-985-9806



Prmt	Text193	26596	Constr Type	New	Num1	20826	
Permit Nbr	02-0826	Location of Construction	552	Brighton Ave	Appl. Date	07/26/2002	
Status	Hold	Permit Type	Alterations - Dwellings		Issue Date		
CBL	185 D013001	Territory Nbr	3	Estimated Cost	\$25,000.00	Date Closed	

Comment Date	Comment	Name	Follow Up Date	Completed
08/01/2002	Need to know setbacks for "bay window", need specs on steel beams, depth of footings under beams are only 5", need specs on M's - left message w/out der.	tm		<input type="checkbox"/>

CreatedBy	gg	CreateDate	07/29/2002	ModBy	tm	ModDate	08/01/2002
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