

4TH FLOOR FOR SECOND FLOOR  
 STORAGE (LIGHT), BREAK ROOM

- ALL FLOOR JOISTS - ADSAS 11/8"
- (A) Single 7" x 16" Versa-Lam
  - (B) Single 3 1/2" x 16" Versa-Lam
  - (C) Single 4 3/2" x 9 1/2" Versa-Lam
- Spec Sheets Attached

125 D/F

↑  
 48' W  
 16R x 12.00'  
 existing interior wall

DEPT. OF BUILDING INSPECTION  
 CITY OF PORTLAND, ME  
 DEC 28 2005  
 RECEIVED

429 Warren Ave  
 Unit #7 304 B032

**BOISE**

**Single 11-7/8" AJSTM 25 MSR**

**JoistJ01**

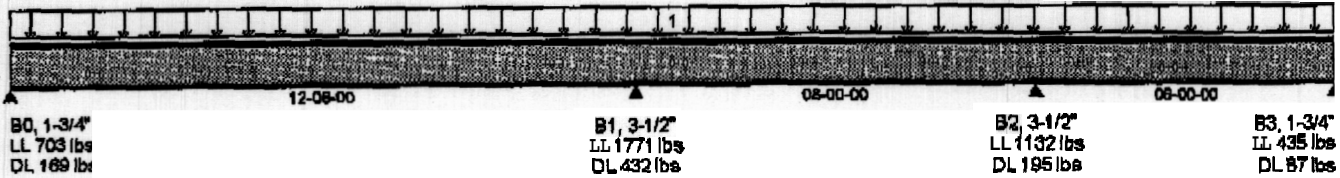
BC CALCO 9.2 Design Report - US  
Build 141

3 spans | No cantilevers | 0112 slope  
16" OCS | Repetitive | Glued & nailed construction

Thursday, December 01, 2005 1314

Job Name: MPI  
Address:  
City, State, Zip: PORTLAND, ME  
Customer: HANCOCK LUMBER  
Code reports: ESR-1144

File Name: HANCOCK MPI  
Description: J01  
Specifier: BOB T.  
Designer: TOMB  
Company: WOOD STRUCTURES  
Misc:



Total of Horizontal Design Spans = 26-06-00

Load Summary	Tag Description	Load Type	Ref.	Start	End	Live 100%	Dead 90%	Snow 116%	Wind 133%	Roof Live 128%	OCS
1	Standard Load	Unf. Area	Left	00-00-00	26-06-00	100 psf	25 psf				16"

Controls Summary	Value	% Allowable	Duration	Load Case	Span Location
Pos. Moment	2284 ft-lbs	36.6%	100%	14	1 - Internal
Neg. Moment	-2482 ft-lbs	39.8%	100%	18	1 - Right
End Reaction	860 lbs	75.2%	100%	14	1 - Left
Int. Reaction	2154 lbs	73.5%	100%	18	1 - Right
Cont. Shear	1216 lbs	81.6%	100%	18	1 - Right
Total Load Defl.	L/1183 (0.127")	20.3%		14	1
Live Load Defl.	L/1460 (0.103")	32.9%		14	1
Total Neg. Defl.	-0.019"	3.7%		14	2
Max Defl.	0.127"	12.7%		14	1
span/Depth	12.6	n/a			1

**Disclosure**

Completeness and accuracy of input must be verified by anyone who would rely on output as evidence of suitability for particular application. Output here based on building code-accepted design properties and analysis methods. Installation of BOISE engineered wood products must be in accordance with current installation Guide and applicable building codes. To obtain installation Guide or ask questions, please call (800)232-0788 before installation.

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**Notes**

Design meets Code minimum (L/240) Total load deflection criteria.  
Design meets User specified (L/480) Live load deflection criteria.  
Design meets arbitrary (1") Maximum load deflection criteria.  
Entered/Displayed Horizontal Span Length(s) = Clear Span + 1/2 min. end bearing + 1/2 intermediate bearing  
Composite EI value based on 23/32" thick sheathing glued and nailed to joist.

1251lb TOTAL LOAD

# BOISE

BC CALC 9.2 Design Report - US  
Build 141

## Single 7" x 16" VERSA-LAM® 2.6 3100 DF

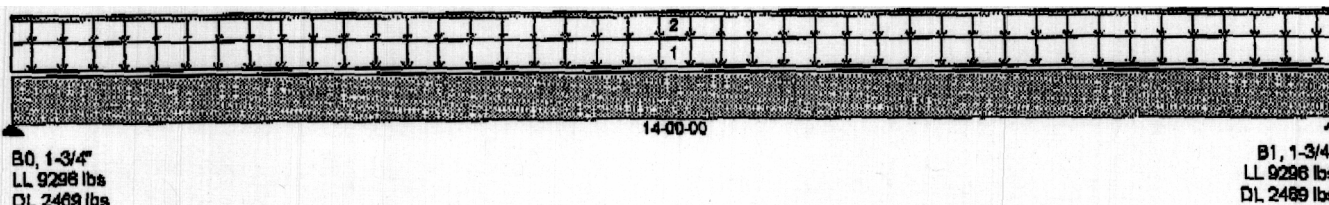
1 span | No cantilevers | 0/12 dope

## Floor Beam\FB01

Thursday, December 01, 2006 13:15

Job Name: MPI  
Address:  
City, State, Zip: PORTLAND, ME  
Customer: HANCOCK LUMBER  
Code reports: ESR-1040

File Name: BC CALC Project  
Description: FB01  
Specifier: BOB T.  
Designer: TOM B  
Company: WOOD STRUCTURES  
Misc: BEAM @ 12' 6"



Total of Horizontal Design Spans = 14-00-00

Load Summary	Tag Description	Load Type	Ref.	Start	End	Live 100%	Dead 90%	Snow 116%	Wind 133%	Roof/Live 128%	Trib.
1	Standard Load	Unf Area	Left	00-00-00	14-00-00	0 psf	0 psf				16-00-00
2	FLOOR JOIST	Unf. Lin.	Left	00-00-00	14-00-00	1328 plf	324 plf				n/a

Controls Summary	Value	% Allowable	Duration	Load Case	Span Location
Pos. Moment	41179 ft-lbs	55.1%	100%	1	1 - Internal
End Shear	9402 lbs	44.2%	100%	1	1 - Left
Total Load Defl.	L/553 (0.304")	43.4%		1	1
Live Load Defl.	L/699 (0.24)	68.6%		1	1
Max Defl	0.304"	30.4%		1	1
Span / Depth	10.5	n/a			

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### Notes

Design meets Code minimum (L/240) Total load deflection criteria  
Design meets User specified (L/480) Live load deflection criteria  
Design meets arbitrary (1") Maximum load deflection criteria.  
Minimum bearing length for B0 is 2-1/4"  
Minimum bearing length for B1 is 2-1/4".  
Entered/Displayed Horizontal Span Length(s) = Clear Span + 1/2 min. and bearing + 1/2 Intermediate bearing





### Single 3-1/2" x 16" VERSA-LAM® 2.0 3100 DF

### Floor Beam\FB02

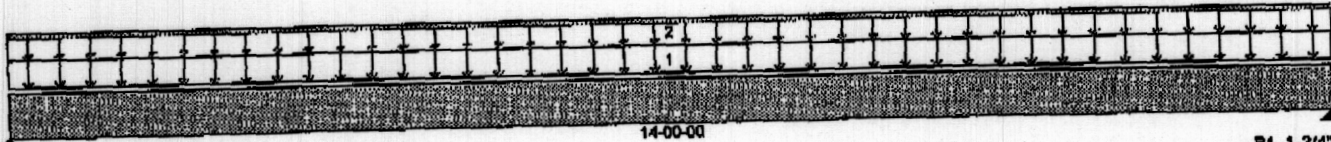
BC CALC® 9.2 Design Report - US  
Build 141

1 span | No cantilevers | 0/12 slope

Thursday, December 01, 2005 13:16

Job Name: MPI  
Address:  
City, State, Zip: PORTLAND, ME  
Customer: HANCOCK LUMBER  
Code reports: ESR-1040

File Name: BC CALC Project  
Description: FB02  
Specifier: BOB T.  
Designer: TOM B  
Company: WOOD STRUCTURES  
Misc: BEAM @ 20' 6"



B0, 1-3/4"  
LL 5943 lbs  
DL 1123 lbs

B1, 1-3/4"  
LL 5943 lbs  
DL 1123 lbs

Total of Horizontal Design Spans = 14-00-00

Load Summary	Load Type	Ref.	Start	End	Live 100%	Dead 80%	Snow 118%	Wind 133%	Roof Live 128%	Trib.
1 Standard Load	Unf. Area	Left	00-00-00	14-00-00	0 psf	0 psf				16-00-00
2 FLOOR JOIST	Unf. Lin.	Left	00-00-00	14-00-00	849 plf	146 plf				n/a

Controls Summary	Value	% Allowable	Duration	Load Case	Span Location
Pos. Moment	24730 ft.-lbs	66.2%	100%	1	1 - Internal
End Shear	5646 lbs	53.1%	100%	1	1 - Left
Total Load Defl.	L/460 (0.365")	52.2%		1	1
Live Load Defl.	L/547 (0.307")	87.8%		1	1
Max Defl.	0.365"	36.5%		1	1
Span / Depth	10.5	n/a			1

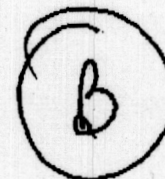
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#### Notes

- Design meets Code minimum (L/240) Total load deflection criteria.
- Design meets User specified (L/480) Live load deflection criteria.
- Design meets arbitrary (1") Maximum load deflection criteria.
- Minimum bearing length for B0 is 2-3/4".
- Minimum bearing length for B1 is 2-3/4".
- Entered/Displayed Horizontal Span Length(s) = Clear Span + 1/2 min. end bearing + 1/2 intermediate bearing



# BOISE

## Single 3-1/2" x 9-1/2" VERSA-LAM® 2.0 3100 DF

### Floor Beam/FB03

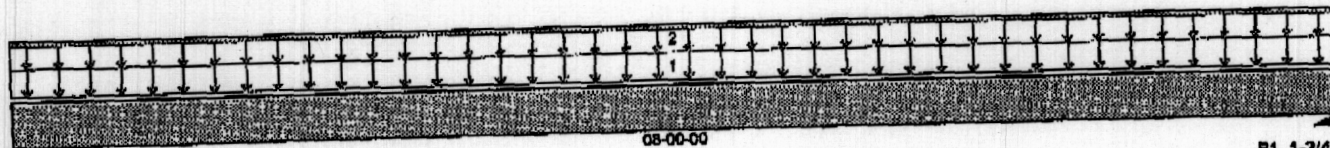
BC CALC® 9.2 Design Report - US  
Build 141

1 span | No cantilevers | 0/12 slope

Thursday, December 01, 2005 13:16

Job Name: MPI  
Address:  
City, State, Zip: PORTLAND, ME  
Customer: HANCOCK LUMBER  
Code reports: ESR-1040

File Name: HANCOCK MPI  
Description: FB03  
Specifier: BOB T.  
Designer: TOM B  
Company: WOOD STRUCTURES  
Misc: HEADER BEAM



B0, 1-3/4"  
LL 1304 lbs  
DL 294 lbs

B1, 1-3/4"  
LL 1304 lbs  
DL 294 lbs

Total of Horizontal Design Spans = 08-00-00

Load Summary		Load Type	Ref.	Start	End	Live 100%	Dead 90%	Snow 116%	Wind 133%	Roof Live 126%	Trib.
1	Standard Load	Unf. Area	Left	00-00-00	08-00-00	0 psf	0 psf				16-00-00
2	HEADER	Unf. Lin.	Left	00-00-00	08-00-00	326 plf	65 plf				n/a

Controls Summary	Value	% Allowable	Duration	Load Case	Span Location
Pos. Moment	3196 ft-lbs	22.9%	100%	1	1 - Internal
End Shear	1253 lbs	19.8%	100%	1	1 - Left
Total Load Defl.	L/1304 (0.074")	18.4%		1	1
Live Load Defl.	L/1598 (0.06")	30.0%		1	1
Max Defl.	0.074"	7.4%		1	1
Span / Depth	10.1	n/a			

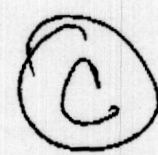
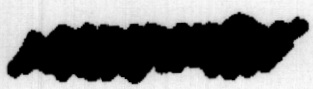
#### Disclosure

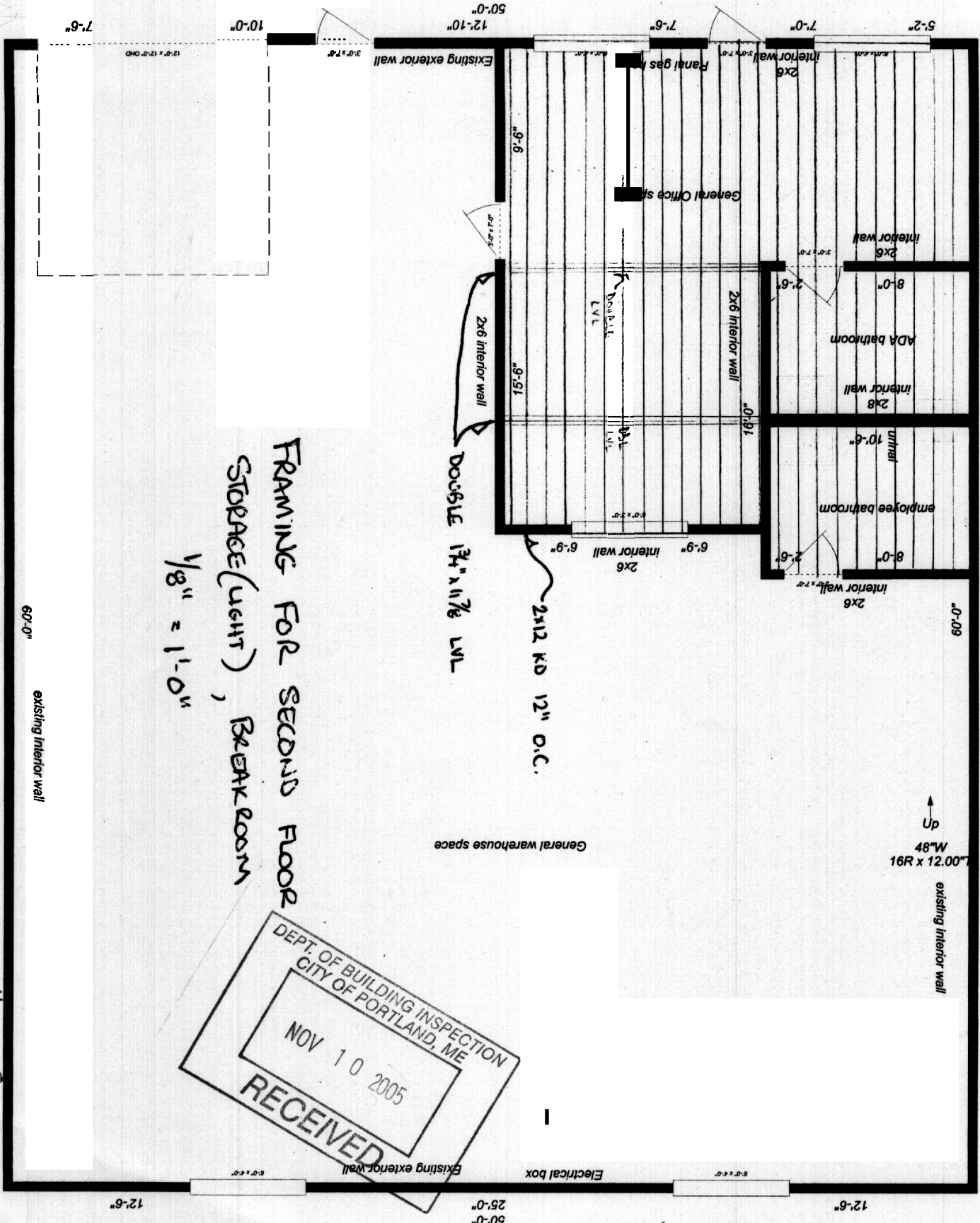
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#### Notes

- Design meets Code minimum (L/240) Total load deflection criteria.
- Design meets User specified (L/480) Live load deflection criteria.
- Design meets arbitrary (1") Maximum load deflection criteria.
- Minimum bearing length for B0 is 1-1/2'.
- Minimum bearing length for B1 is 1-1/2'.
- Entered/Displayed Horizontal Span Length(s) = Clear Span + 1/2 min. end bearing + 1/2 intermediate bearing





FRAMING FOR SECOND FLOOR  
 STORAGE (LIGHT), BREAK ROOM  
 1/8" = 1'-0"

DEPT. OF BUILDING INSPECTION  
 CITY OF PORTLAND, ME  
 NOV 10 2005  
 RECEIVED

THE HUNTINGTON HOME CO. INC.  
 489 WARREN AVE. PORTLAND, ME 04103

Up ↑  
 M-88  
 16R x 12.00'  
 existing interior wall