

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK

CITY OF PORTLAND

BUILDING INSPECTION

PERMIT

Permit Number: 091336

PERMIT ISSUED

Please Read Application And Notes, If Any, Attached

This is to certify that CLANCY JEFFREY M & MARIE PLATT CLANCY ITS
has permission to Add Dormers, interior upgrades and interior renovation DEC 10 2009
AT 31 OBRION ST CB 003 K010001

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

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

Notification of inspection must be given and written permission procured before this building or part thereof is lathed or otherwise finished-in. 24 HOUR NOTICE IS REQUIRED.

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

OTHER REQUIRED APPROVALS

- Fire Dept. _____
- Health Dept. _____
- Appeal Board _____
- Other _____
Department Name

Thomas M. Markley 12/10/09
Director - Building & Inspection Services

PENALTY FOR REMOVING THIS CARD

City of Portland, Maine - Building or Use Permit Application

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

Permit No: 09-1336	Issue Date:	CBL: 003 K010001
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Location of Construction: 31 OBRION ST	Owner Name: CLANCY JEFFREY M & MARIE	Owner Address: 31 OBRION ST	Phone:
Business Name:	Contractor Name: Cornerstone Building & Restoration	Contractor Address: 44 Coyle Street Portland	Phone 2077759085
Lessee/Buyer's Name	Phone:	Permit Type: Additions - Dwellings	Zone: R-6

Past Use: 2 Family Home	Proposed Use: 2 Family Home - Add Dormers, interior upgrades and interior renovations <i>legal use: 2 d.v.</i>	Permit Fee: \$540.00	Cost of Work: \$51,925.00	CEO District: 1
Proposed Project Description: Add Dormers, interior upgrades and interior renovations		FIRE DEPT: <input type="checkbox"/> Approved <input type="checkbox"/> Denied		INSPECTION: Use Group: <i>R3</i> Type: <i>5B</i> <i>IRC 2003</i>
		Signature: _____		Signature: <i>JM 12/10/09</i>
PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.) Action: <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied Signature: _____ Date: _____				

Permit Taken By: Ldobson	Date Applied For: 11/20/2009	Zoning Approval
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- This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules.
- Building permits do not include plumbing, septic or electrical work.
- Building permits are void if work is not started within six (6) months of the date of issuance. False information may invalidate a building permit and stop all work..

Special Zone or Reviews	Zoning Appeal	Historic Preservation
<input type="checkbox"/> Shoreland <input type="checkbox"/> Wetland <input type="checkbox"/> Flood Zone <input type="checkbox"/> Subdivision <input type="checkbox"/> Site Plan Maj <input type="checkbox"/> Minor <input type="checkbox"/> MM <input type="checkbox"/> <i>Using Section 14-431(b) 13 23 1/2 ct 80' b</i> Date: <i>12/14/09</i> <i>ABM</i>	<input type="checkbox"/> Variance <input type="checkbox"/> Miscellaneous <input type="checkbox"/> Conditional Use <input type="checkbox"/> Interpretation <input type="checkbox"/> Approved <input type="checkbox"/> Denied Date: _____	<input checked="" type="checkbox"/> Not in District or Landmark <input type="checkbox"/> Does Not Require Review <input type="checkbox"/> Requires Review <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied Date: <i>ABM</i>

PERMIT ISSUED

DEC 10 2009

City of Portland

CERTIFICATION

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

SIGNATURE OF APPLICANT	ADDRESS	DATE	PHONE
RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE		DATE	PHONE



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: <u>31 Obrion St. Portland</u>		
Total Square Footage of Proposed Structure/Area <u>576 sq ft</u>	Square Footage of Lot <u>0.074 Acres</u>	
Tax Assessor's Chart, Block & Lot Chart# <u>003</u> Block# <u>K</u> Lot# <u>10</u>	Applicant * must be owner, Lessee or Buyer* Name <u>Jeffrey Clancy</u> Address <u>31 Obrion St</u> City, State & Zip <u>Portland Me. 04101</u>	Telephone: <u>207-239-7893</u>
Lessee/DBA (If Applicable)	Owner (if different from Applicant) Name Address City, State & Zip	Cost Of Work: \$ <u>51,925</u> C of O Fee: \$ <u>75</u> Total Fee: \$ <u>52,000</u>
Current legal use (i.e. single family) <u>Two Family</u> If vacant, what was the previous use? _____ Proposed Specific use: <u>Two Family</u> Is property part of a subdivision? <u>No</u> If yes, please name _____ Project description: <u>Dormers - Insulation - Electrical + Plumbing</u> <u>see attached plans</u>		
Contractor's name: <u>Cornelstone Building + Restoration</u> Address: <u>44 Coyle St</u> City, State & Zip <u>Portland Me 04101</u> Telephone: <u>775-9089</u> Who should we contact when the permit is ready: <u>Kevin Wickerson</u> Telephone: <u>450-8919</u> Mailing address: <u>44 Coyle St. Portland Me. 04101</u>		

Please submit all of the information outlined on the applicable Checklist. Failure to do so will result in the automatic denial of your permit.

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: [Signature] Date: 11-17-09 **RECEIVED**

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

NOV 20 2009

Dept. of Building Inspections
City of Portland Maine



Residential Additions/Alterations Permit Application Checklist

All of the following information is required and must be submitted. Checking off each item as you prepare your application package will ensure your package is complete and will help to expedite the permitting process.

The Maine Home Construction Contracts Act requires that any home construction or repair work for more than \$3000. in materials or labor must be based on a written contract unless the parties agree to exempt themselves. A sample contract is available on the City's website at www.portlandmaine.gov, in the Inspection Office, Room 315 of Portland City Hall or call (207)874-8703 to have one mailed to you.

One (1) complete set of construction drawings must include:

- Cross sections w/framing details
- Floor plans and elevations existing & proposed
- Detail removal of all partitions & any new structural beams
- Detail any new walls or permanent partitions
- Stair details including dimensions of: rise/run, head room, guards/handrails, baluster spacing
- Window and door schedules
- Foundation plans w/required drainage and damp proofing (if applicable)
- Detail egress requirements and fire separation/sound transmission ratings (if applicable)
- Insulation R-factors of walls, ceilings & floors & U-factors of windows per the IECC 2003
- Deck construction including: pier layout, framing, fastenings, guards, stair dimensions
- Reduced plans or electronic files in pdf format are required if originals are larger than 11" x 17"
- Proof of ownership is required if it is inconsistent with the assessors records

Separate permits are required for internal & external plumbing, HVAC, and electrical installations.

If there are any additions to the footprint or volume of the structure, any new or rebuilt structures or, accessory detached structures a plot plan is required. A plot must include:

- The shape and dimension of the lot, footprint of the existing and proposed structure and the distance from the actual property lines. Structures include decks, porches; bow windows, cantilever sections and roof overhangs, sheds, pools, garages and any other accessory structures must be shown with dimensions if not to scale.
- Location and dimensions of parking areas and driveways
- A change of use may require a site plan exemption application to be filed.

Please submit all of the information outlined in this application checklist. If the application is incomplete, the application may be refused.

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 visit us on-line at www.portlandmaine.gov, stop by the Building Inspections office, room 315 City Hall or call 874-8703.

Permit Fee: \$30.00 for the first \$1000.00 construction cost, \$10.00 per additional \$1000.00 cost
This is not a Permit; you may not commence any work until the Permit is issued.

City of Portland, Maine - Building or Use Permit

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

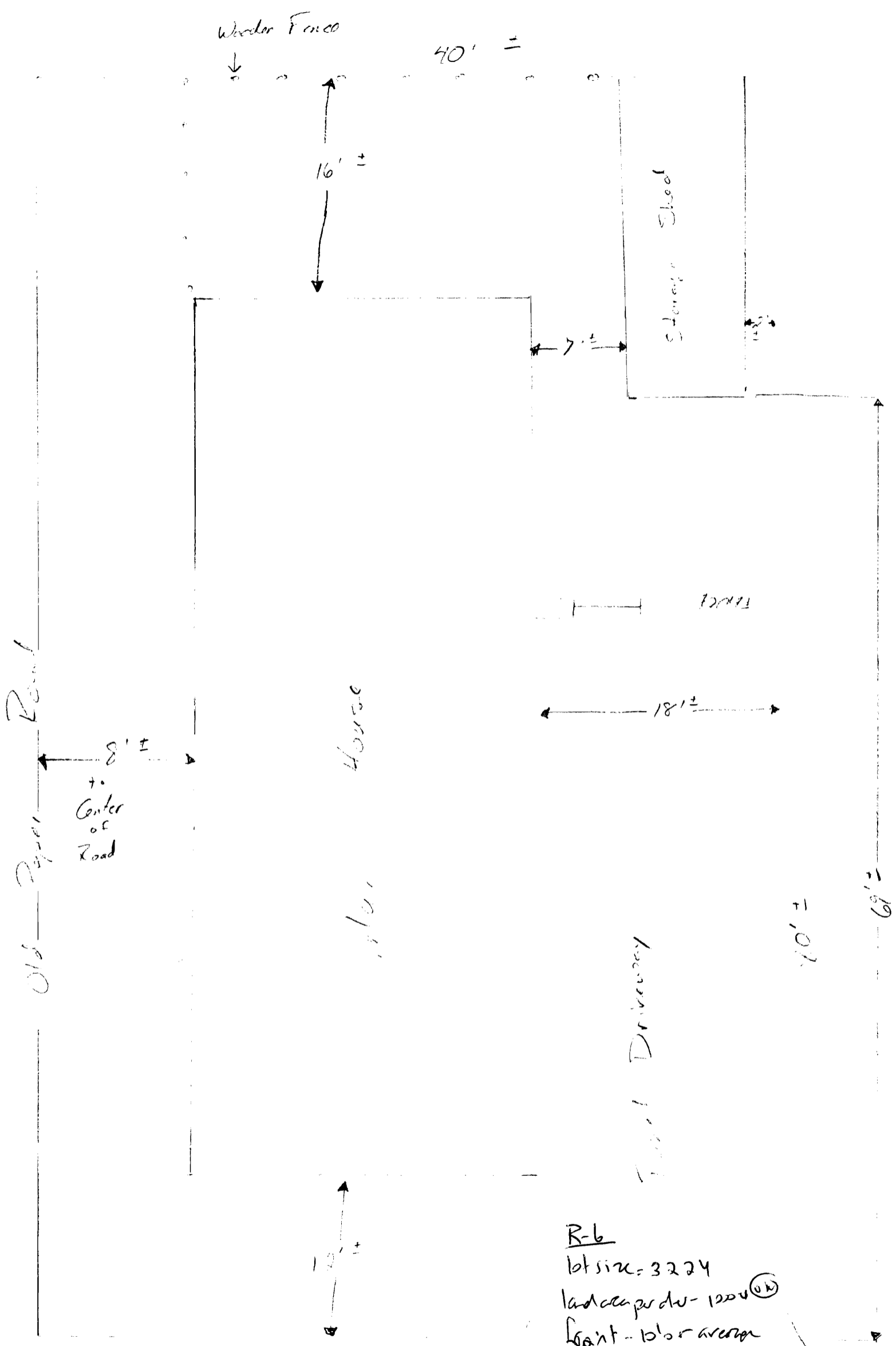
Permit No: 09-1336	Date Applied For: 11/20/2009	CBL: 003 K010001
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Location of Construction: 31 OBRION ST	Owner Name: CLANCY JEFFREY M & MARIE	Owner Address: 31 OBRION ST	Phone:
Business Name:	Contractor Name: Cornerstone Building & Restoration	Contractor Address: 44 Coyle Street Portland	Phone (207) 775-9085
Lessee/Buyer's Name	Phone:	Permit Type: Additions - Dwellings	

Proposed Use: 2 Family Home - Add Dormers, interior upgrades and interior renovations	Proposed Project Description: Add Dormers, interior upgrades and interior renovations
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Dept: Zoning	Status: Approved with Conditions	Reviewer: Ann Machado	Approval Date: 12/04/2009
Note: Using section 14-436(b), 80% of the first floor footprint is 1080.8. Two dormers are adding 143 sf which is 13.23% of allowable 80% increase. Ok to Issue: <input checked="" type="checkbox"/>			
<ol style="list-style-type: none"> 1) This property shall remain a two family dwelling. Any change of use shall require a separate permit application for review and approval. 2) This permit is being approved on the basis of plans submitted. Any deviations shall require a separate approval before starting that work. 			
Dept: Building	Status: Approved with Conditions	Reviewer: Residential Plan Revie	Approval Date: 12/10/2009
Note: Ok to Issue: <input checked="" type="checkbox"/>			
<ol style="list-style-type: none"> 1) Separate permits are required for any electrical, plumbing, sprinkler, fire alarm or HVAC or exhaust systems. Separate plans may need to be submitted for approval as a part of this process. 2) Application approval based upon information provided by applicant. Any deviation from approved plans requires separate review and approval prior to work. 			

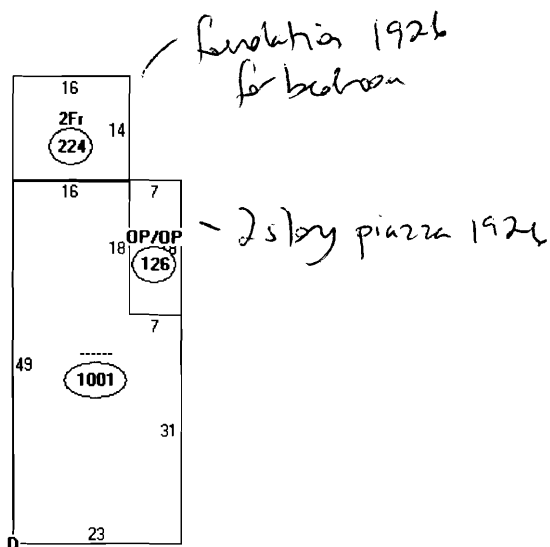
31 OBRION ST PLOT PLAN



Use section 14-436(b) 80% of 1351 = 1080.8
 adding 3.25 x 22 71.5 x 2 = 143
 uses 13.23%

R-6
 lot size = 3224
 land use per du = 1200 (u.k.)
 front - 10' or average
 rear - 20' min - 16' 5 min
 side - 10' - 8' back of road

1926 - 2 family
plot plan w/ shed



Descriptor/Area	
A:	1001 sqft
B: 2Fr	224 sqft
C: OP/OP	126 sqft
D: RS1	352 sqft
= 1351	

22 x 48

15 x 17

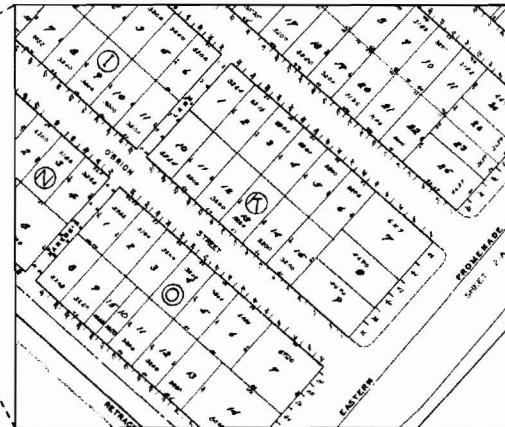
CLANCY REMODEL



RENDERING OF PROPOSED DORMERS



EAST END, PORTLAND, ME



SITE LOCATION (from Tax Map)

PROJECT INFORMATION

Client: Jeffrey & Marie Clancy
Architect: Kaplan Thompson Architects
Contractor: Cornerstone Building and Restoration
Map / Lot: Map 003, Block K, Lot 10
Project Address: 31 O'Brien St.
Zoning: R-6 district
Building Codes: IRC 2003
NFPA / 1999

Site Area: 2700 SF / 0.074 ACRE
Building SF: 3222 SF (INCL. ATTIC @ 244 SF)
Occupancy: R-6 TWO-FAMILY

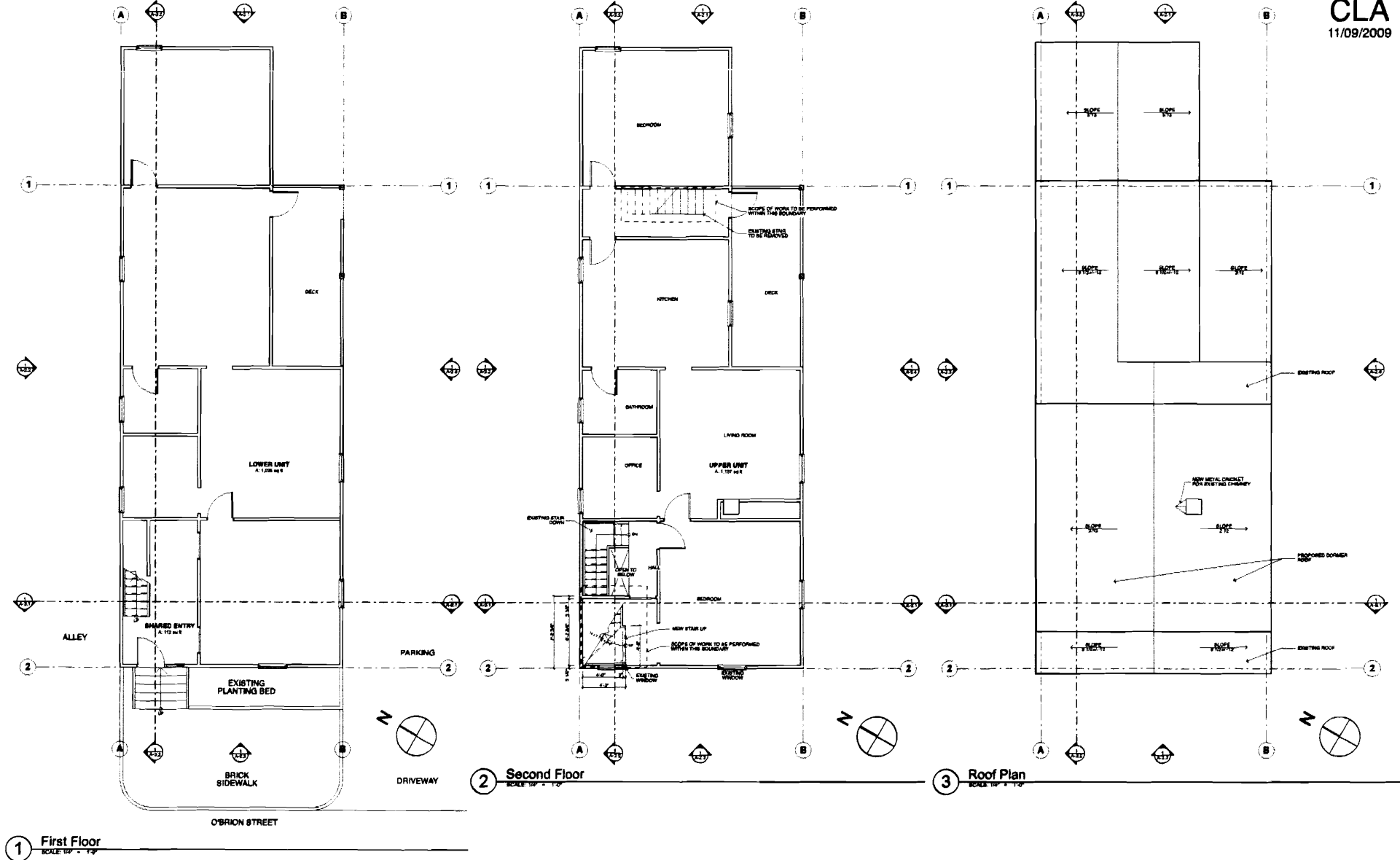
Maximum Building Height: 45'-0"

Setbacks: Front: N/A - No Changes
Side: N/A - No Changes
Rear: N/A - No Changes

DRAWING INDEX

Cover Sheet

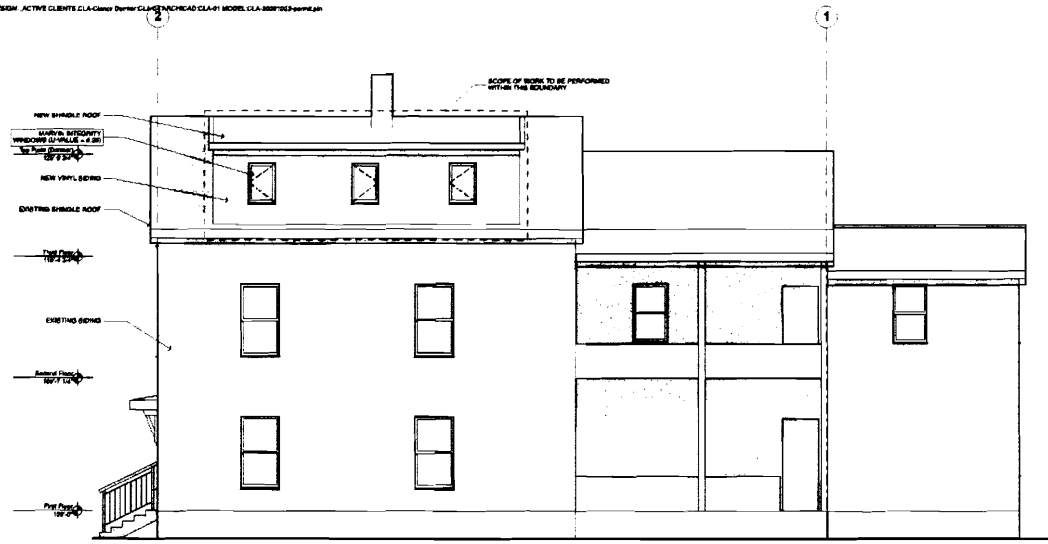
- A-1.1 Third Floor Plans
- A-1.2 Plans & Roof Plan
- A-2.1 Elevations
- A-2.2 Existing Elevations
- A-3.1 Building Sections



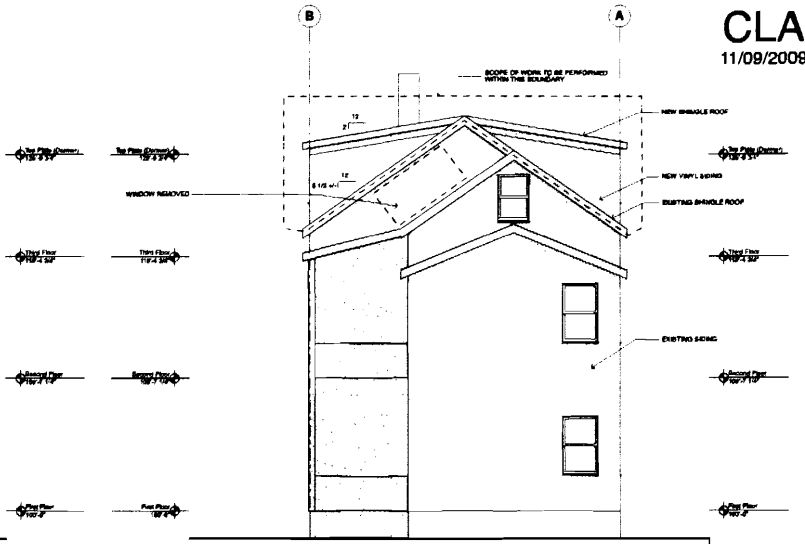
KAPLAN THOMPSON
ARCHITECTS
424 FOREST ST. PORTLAND, ME 04103
807-642-8888 FAX 842-8828

PROJECT:
CLANCY REMODEL
JEFFREY & MARIE CLANCY
31 D WASH ST.
PORTLAND, ME

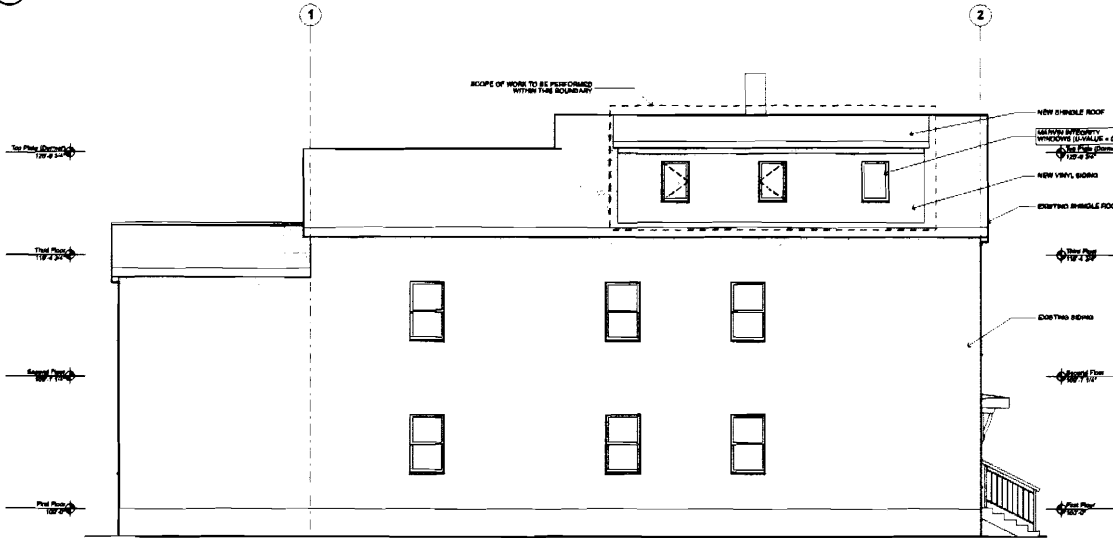
DRAWING: PLANS & ROOF PLAN
SCALE: 1/4" = 1'-0"
DATE: NOVEMBER 9, 2009
DESIGN BY: JB
REVISED:



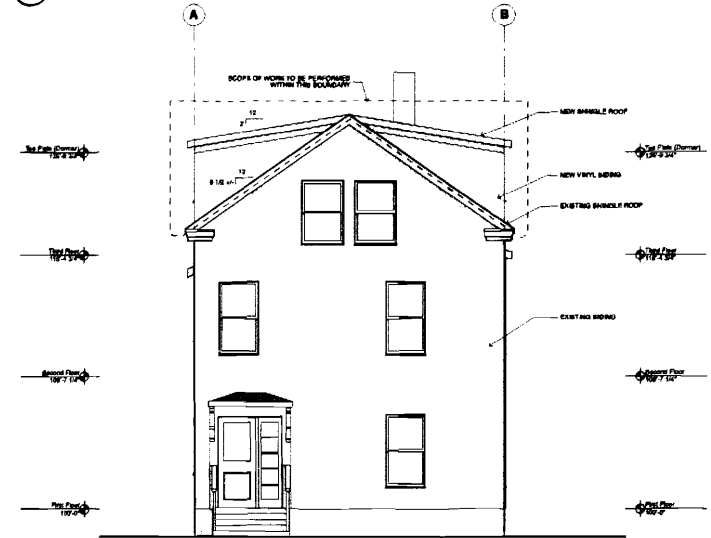
1 Southeast Elevation
SCALE 1/4" = 1'-0"



2 Northeast Elevation
SCALE 1/4" = 1'-0"



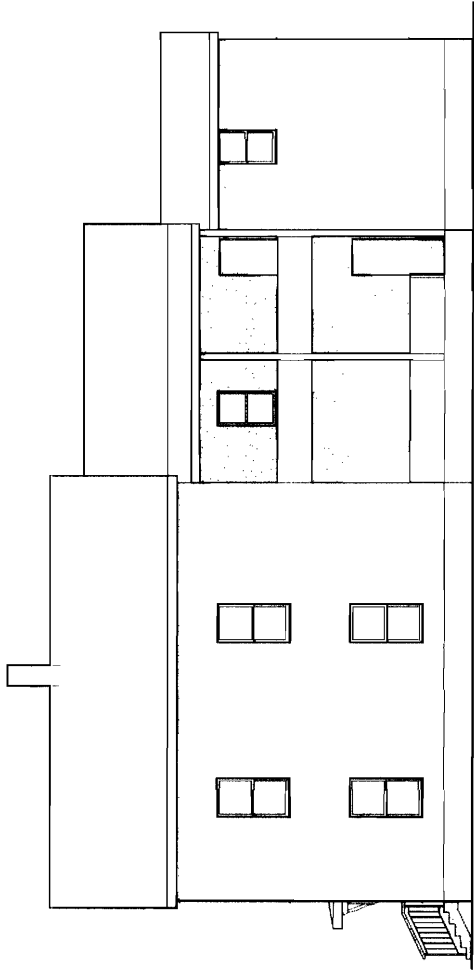
3 Northwest (Alley) Elevation
SCALE 1/4" = 1'-0"



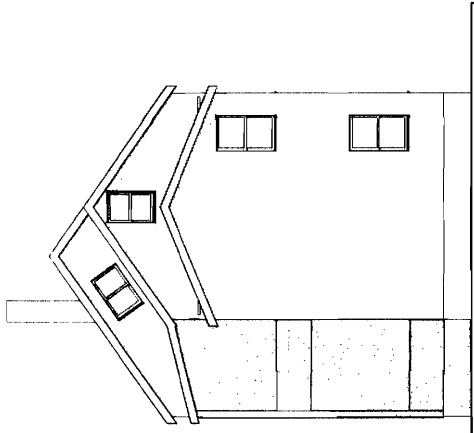
4 Southwest (Street) Elevation
SCALE 1/4" = 1'-0"

1/10/09 1:18 PM DESIGN_ACTIVE CLIENTS CLAY Clancy Remodel ARCHITECTURE MODEL CLAY REMODEL.DWG

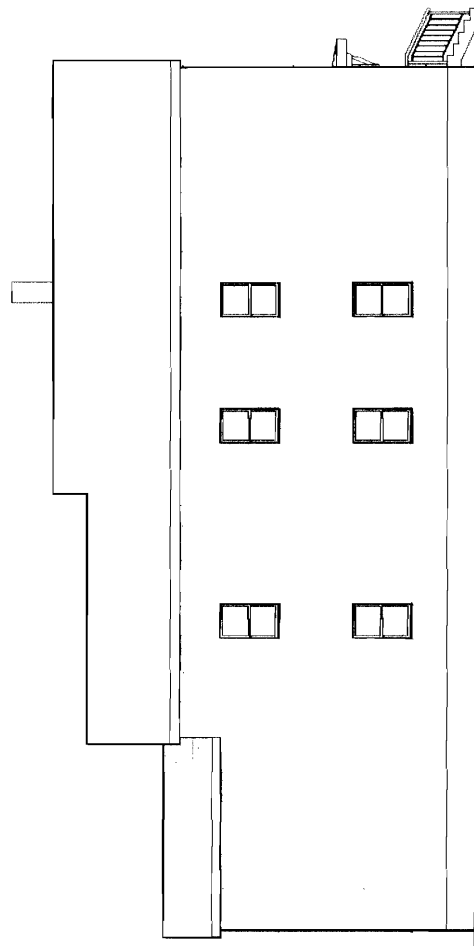
CLA
11/09/2009



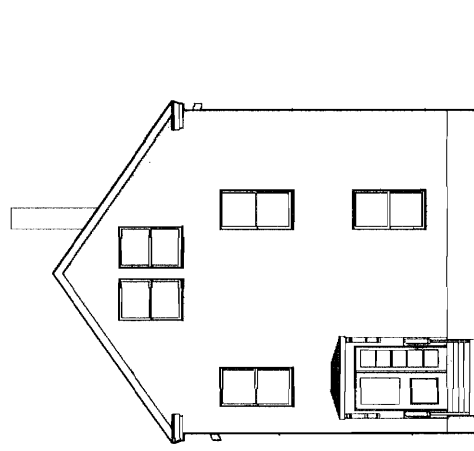
① Southeast Elevation
SCALE 1/8" = 1'-0"



② Northeast Elevation
SCALE 1/8" = 1'-0"



③ Northwest (Alley) Elevation
SCALE 1/8" = 1'-0"



④ Southwest (Street) Elevation
SCALE 1/8" = 1'-0"

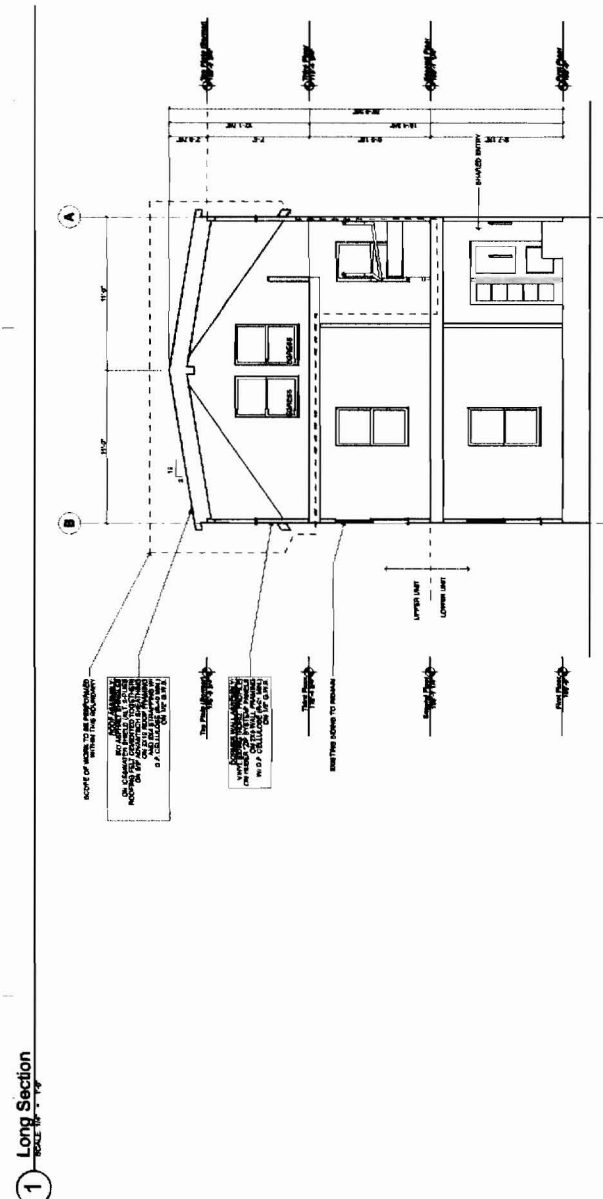
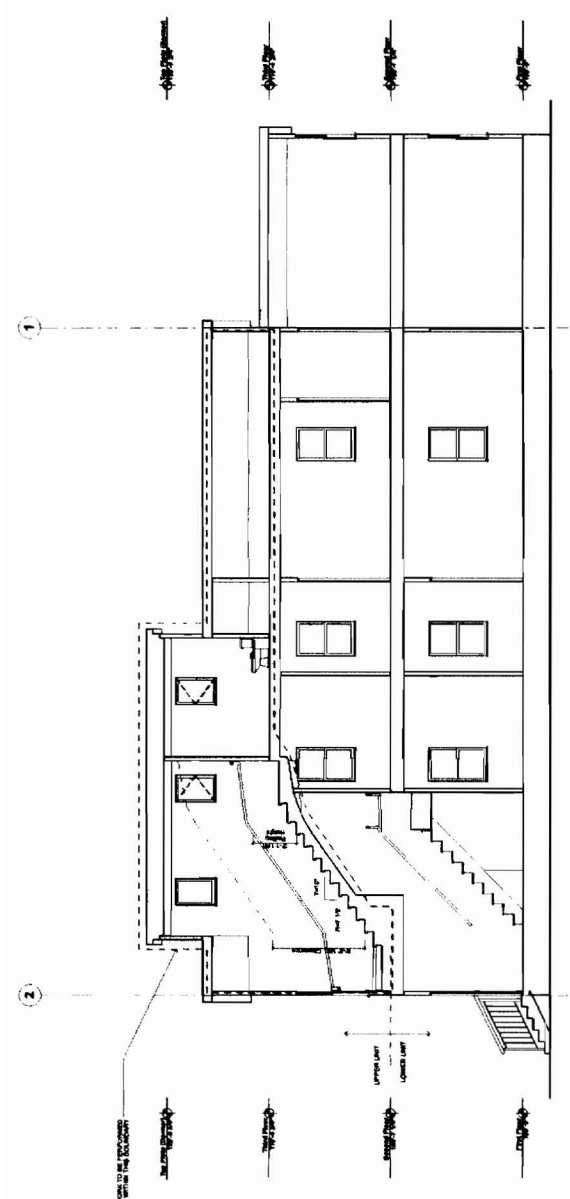
KAPLAN THOMPSON
ARCHITECTS
454 FOREST, PORTLAND, ME 04101
507-752-2888 FAX 507-752-7558

PROJECT:
CLANCY REMODEL
JACQUES & MARIE CLANCY
PORTLAND, ME

DRAWN: EXISTING ELEVATIONS
REVIS: DEANE BRUJIB
DATE: NOVEMBER 8, 2009 REVISION:

A-2.2

PROJECT: 101 WILSON AVENUE, PORTLAND, ME. ARCHITECT: KAPLAN THOMPSON ARCHITECTS



SCOPE OF WORK FOR THIS PROJECT:
 1. DEMOLITION OF EXISTING ROOF AND REVISION OF EXISTING ROOF STRUCTURE TO ACCOMMODATE A GABLE ROOF FOR THE 2ND FLOOR.
 2. DEMOLITION OF EXISTING 2ND FLOOR WALLS AND REVISION OF EXISTING 2ND FLOOR FLOOR SLAB TO ACCOMMODATE A GABLE ROOF FOR THE 2ND FLOOR.
 3. DEMOLITION OF EXISTING 2ND FLOOR WALLS AND REVISION OF EXISTING 2ND FLOOR FLOOR SLAB TO ACCOMMODATE A GABLE ROOF FOR THE 2ND FLOOR.

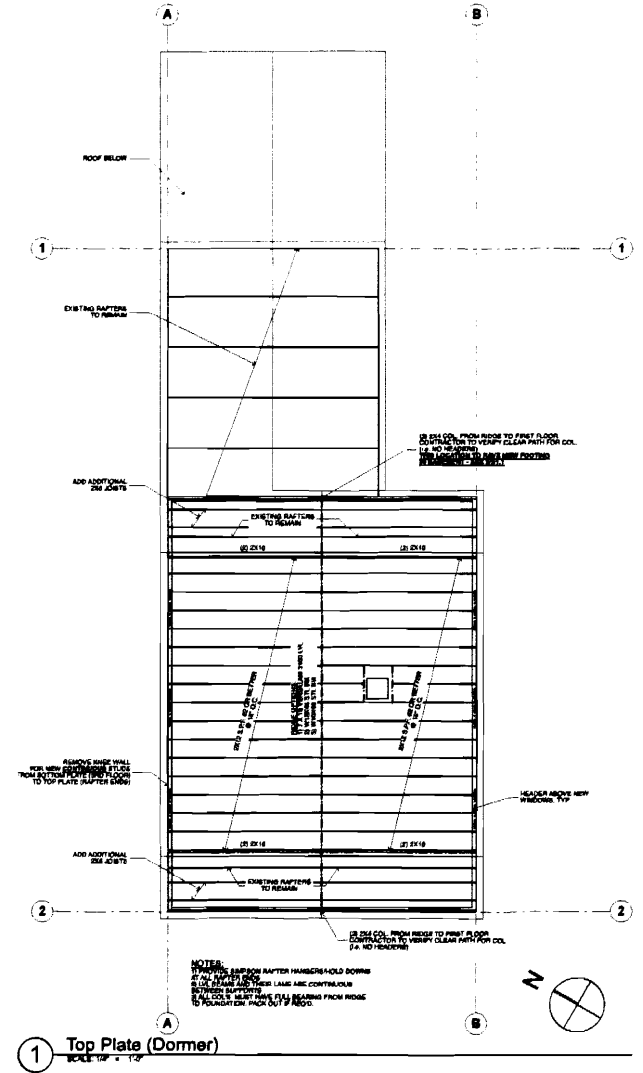
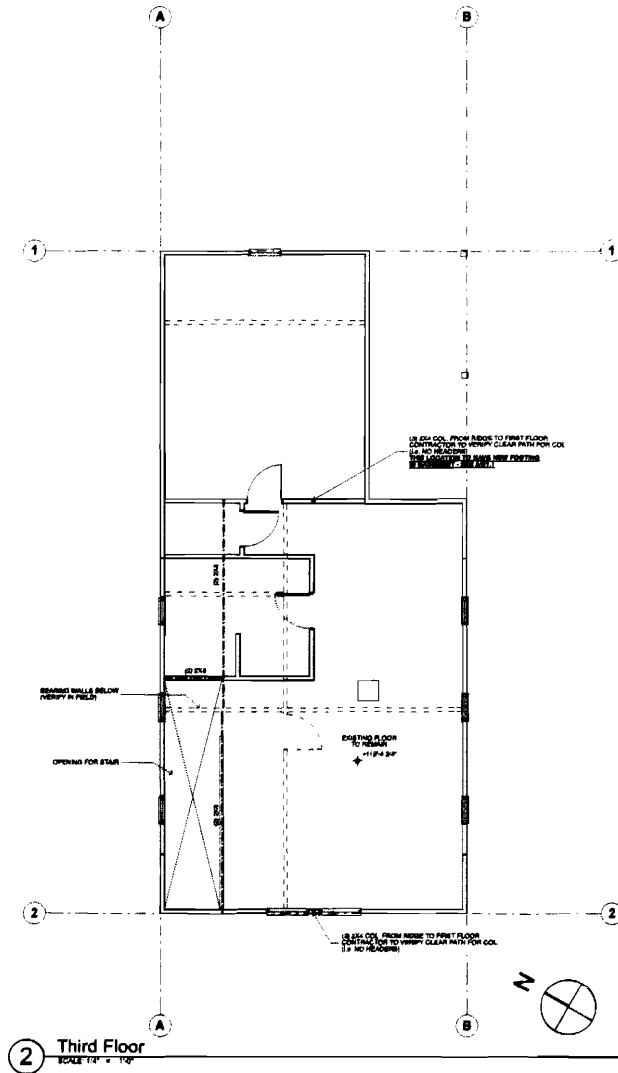
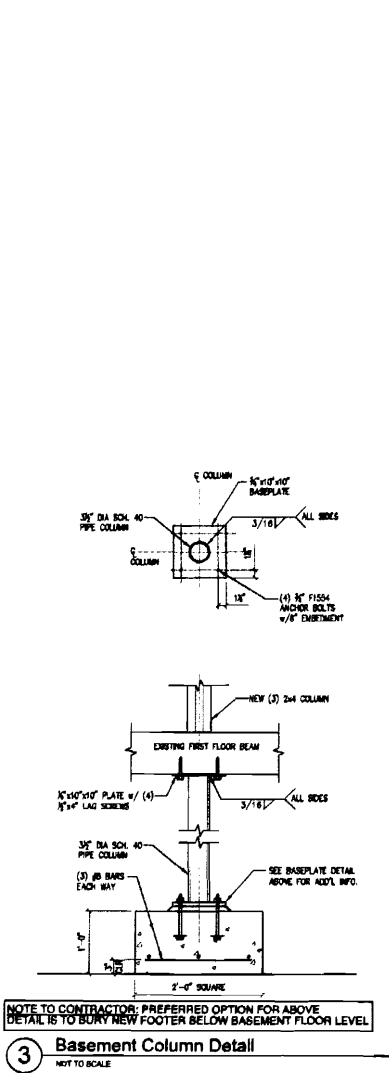
PROJECT: CLANCY REMODEL
 JEFFREY & MARIE CLANCY
 PORTLAND, ME

DATE: NOVEMBER 9, 2009

DRAWING: BUILDING SECTIONS
 SCALE: 1/8" = 1'-0"
 DRAWN BY: JLB
 REVISION:

KAPLAN THOMPSON
 ARCHITECTS
 424 HOBBS ST., PORTLAND, ME 04101
 807-664-7888 FAX 807-664-8888

A-3.1



MiTek Industries, Inc.

14515 North Outer Forty Drive
Suite 300
Chesterfield, MO 63017-5746

Re: 603711

00

The truss drawing(s) referenced below have been prepared by MiTek Industries, Inc. under my direct supervision based on the parameters provided by Boise Structural Solutions.

Pages or sheets covered by this seal: I15975838 thru I15975840

My license renewal date for the state of Maine is December 31, 2009.



November 12, 2009

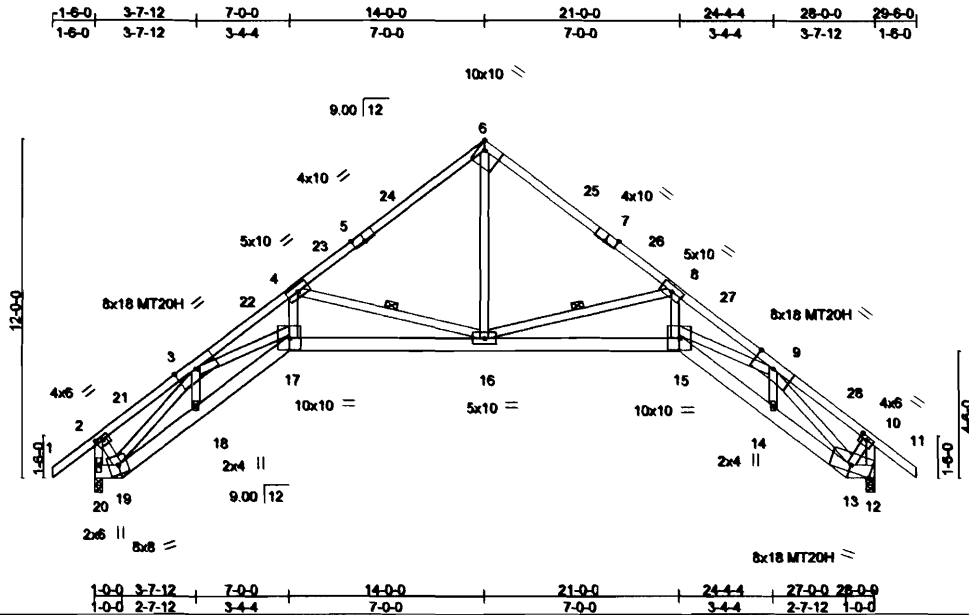
Garcia, Juan

The seal on these drawings indicate acceptance of professional engineering responsibility solely for the truss components shown. The suitability and use of this component for any particular building is the responsibility of the building designer, per ANSI/TPI-2002 Chapter 2.

Job	Truss	Truss Type	Qty	Ply	00	
603711	001	CAMBER	15	1		115975838

Boise Structural Solutions, Biddeford, ME 04005

7.210 s Nov 9 2009 MITek Industries, Inc. Thu Nov 12 14:33:47 2009 Page 1



Scale = 1:77.2

Plate Offsets (X, Y): [2:0-3-0,0-1-8], [5:0-5-0,Edge], [6:Edge,0-3-8], [7:0-5-0,Edge], [10:0-3-0,0-1-8]

LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 56.0 (Roof Snow=56.0)	2-0-0 Plates Increase 1.15 Lumber Increase 1.15	TC 0.94 BC 0.79 WB 0.88 (Matrix)	in (loc) l/defl L/d Vert(LL) -0.52 15-16 >644 240 Vert(TL) -0.81 15-16 >409 180 Horz(TL) 1.14 13 n/a n/a	MT20 MT20H	197/144 148/108
TCDL 10.0	Rep Stress Incr YES Code IRC2006/TPI2002				Weight: 154 lb
BCLL 0.0 *					
BCDL 10.0					

LUMBER

TOP CHORD 2 X 4 SPF 2100F 1.8E *Except*
1-5,7-11: 2 X 4 SPF 2400F 2.0E
BOT CHORD 2 X 6 SPF 1650F 1.5E
WEBS 2 X 4 SPF 1650F 1.5E

BRACING

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied or 7-5-6 oc bracing.
WEBS 1 Row at midpt 8-16, 4-16

MITek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 20=2323/0-3-8 (req. 0-3-10), 12=2323/0-3-8 (req. 0-3-10)
Max Horz 20=633(LC 6)
Max Uplift 20=712(LC 8), 12=712(LC 9)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

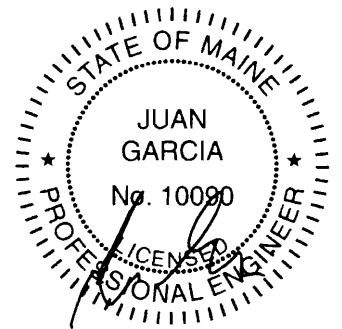
TOP CHORD 2-21=-1351/464, 3-21=-1186/483, 3-22=-7256/1489, 4-22=-7022/1506, 4-23=-2944/659,
5-23=-2749/672, 5-24=-2704/678, 6-24=-2456/704, 6-25=-2456/704, 7-25=-2704/678,
7-26=-2749/672, 8-26=-2944/659, 8-27=-7022/1346, 9-27=-7256/1337, 9-28=-1186/483,
10-28=-1351/464
BOT CHORD 19-20=-633/633, 18-19=-1333/3963, 17-18=-1340/4011, 16-17=-1448/5530,
15-16=-740/5530, 14-15=-666/4011, 13-14=-669/3963
WEBS 6-16=-409/2236, 8-16=-3719/803, 8-15=-356/2932, 9-15=-236/2657, 4-16=-3719/1226,
4-17=-800/2932, 3-17=-440/2657, 3-19=-4045/842, 2-20=-2665/774, 10-12=-2665/774,
9-13=-4045/702, 2-19=-228/1743, 10-13=-261/1743

NOTES (11)

- 1) Wind: ASCE 7-05; 120mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 11-0-0, Exterior(2) 11-0-0 to 14-0-0, Interior(1) 17-0-0 to 26-6-0 zone; cantilever left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-05; Pf=56.0 psf (flat roof snow); Category II; Exp C; Partially Exp.; Ct=1.1
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 56.0 psf on overhangs non-concurrent with other live loads.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
- 8) **WARNING:** Required bearing size at joint(s) 20, 12 greater than input bearing size.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 20=712, 12=712.
- 10) This truss is designed in accordance with the 2006 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Drawing prepared exclusively for manufacturing by Boise Structural Solutions

LOAD CASE(S) Standard

WARNING Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII 7473 rev. 10 '08 BEFORE USE.
Design valid for use only with Mitek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI Quality Criteria, DSI-87 and ICSI Building Component Safety Information available from Truss Plate Institute, 781 N. Lee Street, Suite 312, Alexandria, VA 22314.



November 12, 2009

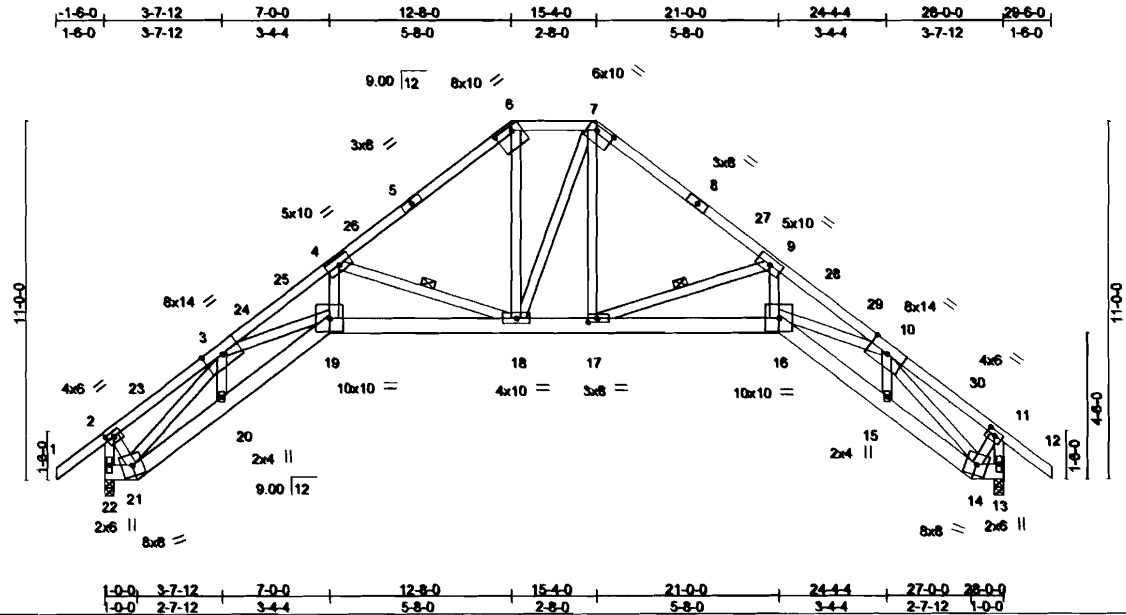
Mitek
POWER TO PERFORM
14515 N. Outer Forty, Suite #300
Chesterfield, MO 63017

Job 803711	Truss 002	Truss Type CAMBER	Qty 2	Ply 1	0 0	115975839
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Boise Structural Solutions, Biddeford, ME 04005

Job Reference (optional)

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Scale = 1:67.1

Plate Offsets (X,Y): [2-0-3-0-0-1-12], [6-0-6-8-0-1-12], [7-0-6-8-0-1-12], [11-0-3-0-0-1-12], [17-0-3-8-0-1-8]

LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 56.0 (Roof Snow=56.0)	Plates Increase 1.4-0 Lumber Increase 1.15 Rep Stress Incr YES Code IRC2006/TPI2002	TC 0.54 BC 0.48 WB 0.86 (Matrix)	in (loc) l/defi L/d Vert(LL) -0.49 16-17 >672 240 Vert(TL) -0.66 16-17 >501 180 Horz(TL) 0.94 13 n/a n/a	MT20	197/144
TCDL 10.0					
BCLL 0.0					
BCDL 10.0					Weight: 190 lb

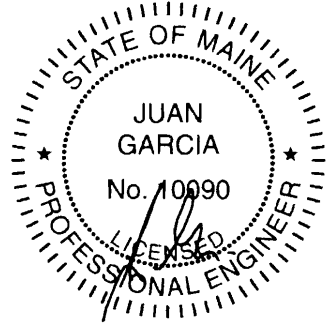
LUMBER	BRACING
TOP CHORD 2 X 4 SPF 2400F 2.0E "Except" 1-5,8-12: 2 X 4 SYP 2700F 2.2E	TOP CHORD Structural wood sheathing directly applied or 2-9-15 oc purlins, except end verticals.
BOT CHORD 2 X 6 SYP M 23	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2 X 4 SPF 1650F 1.5E "Except" 2-22,11-13: 2 X 4 SYP No.2	WEBS 1 Row at midpt 4-18, 9-17

MITek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer installation guide.

REACTIONS (lb/size) 22=1549/0-3-8 (min. 0-1-15), 13=1549/0-3-8 (min. 0-1-15)
 Max Horz 22=-383(LC 6)
 Max Uplift 22=-475(LC 8), 13=-475(LC 9)
 Max Grav 22=2368(LC 18), 13=2368(LC 18)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-23=-1502/304, 3-23=-1289/319, 3-24=-7189/1126, 24-25=-7108/1128, 4-25=-6935/1138,
 4-26=-3074/521, 5-26=-2858/529, 5-6=-2834/545, 6-7=-2290/528, 7-8=-2812/543,
 8-27=-2837/528, 9-27=-3055/519, 9-28=-6955/980, 28-29=-7128/969, 10-29=-7208/969,
 10-30=-1290/319, 11-30=-1503/304, 2-22=-2648/555, 11-13=-2649/555
BOT CHORD 21-22=-413/441, 20-21=-980/4028, 19-20=-1005/4134, 18-19=-1078/5464, 17-18=-241/2271,
 16-17=-508/5479, 15-16=-484/4134, 14-15=-456/4021
WEBS 3-21=-3956/633, 3-19=-326/2412, 4-19=-609/2925, 4-18=-3388/775, 6-18=-152/1222,
 7-18=-305/361, 7-17=-143/1185, 9-17=-3422/527, 10-16=-160/2433, 10-14=-3948/502,
 2-21=-203/1516, 11-14=-203/1516, 9-16=-256/2955

- NOTES (10)**
- 1) Wind: ASCE 7-05; 120mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 9-8-0, Exterior(2) 9-8-0 to 18-4-0, Interior(1) 18-4-0 to 26-6-0 zone; cantilever left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-05; Pf=56.0 psf (flat roof snow); Category II; Exp C; Partially Exp.; Ct=1.1, Lu=50-0-0
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 56.0 psf on overhangs non-concurrent with other live loads.
 - 5) Provide adequate drainage to prevent water ponding.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 22=475, 13=475.
 - 9) This truss is designed in accordance with the 2006 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 10) Drawing prepared exclusively for manufacturing by Boise Structural Solutions



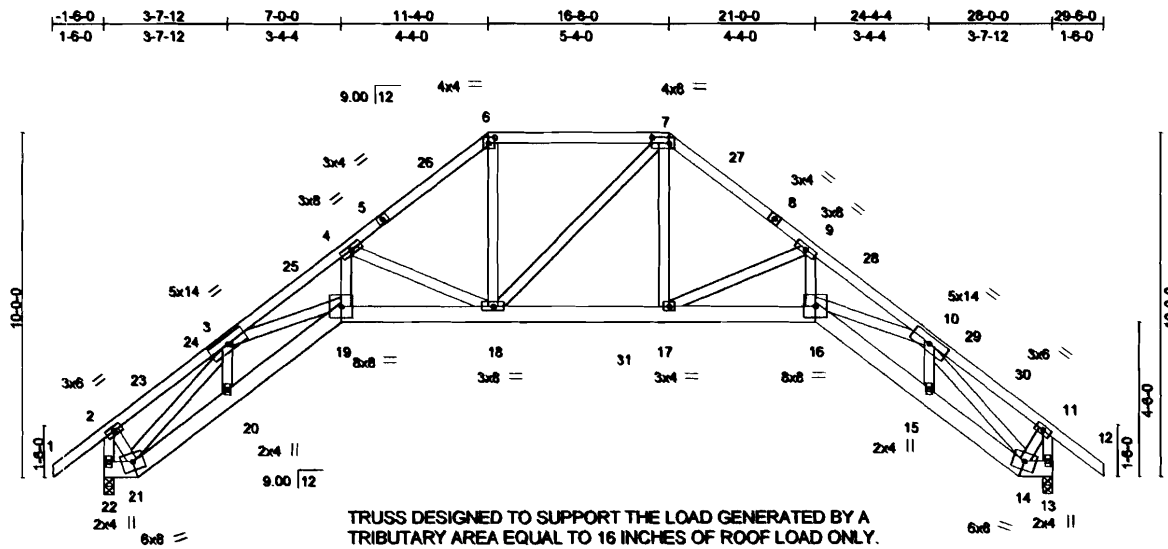
Continued on page 2

<p>WARNING Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII 7473 rev 10 '08 BEFORE USE.</p> <p>Design valid for use only with Mitek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI1 Quality Criteria, D58-87 and BCSI Building Component Safety Information available from Truss Plate Institute, 781 N. Lee Street, Suite 312, Alexandria, VA 22314.</p>	<p>14515 N. Outer Forty, Suite #300 Chesterfield, MO 63017</p>
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Job 603711	Truss 003	Truss Type CAMBER	Qty 2	Ply 2	0 0	115975840
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Boise Structural Solutions, Biddeford, ME 04005

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TRUSS DESIGNED TO SUPPORT THE LOAD GENERATED BY A TRIBUTARY AREA EQUAL TO 16 INCHES OF ROOF LOAD ONLY.

Plate Offsets (X,Y):	16-0-2-4-0-2-0, 17-0-6-0-0-2-0							
LOADING (psf)	SPACING	CSI	DEFL	in (loc)	Wdefl	L/d	PLATES	GRIP
TCLL 56.0	Plates Increase 1.15	TC 0.27	Vert(LL) -0.25	16-17	>999	240	MT20	197/144
(Roof Snow=56.0)	Lumber Increase 1.15	BC 0.36	Vert(TL) -0.34	16-17	>966	180		
TCDL 10.0	Rep Stress Incr YES	WB 0.24	Horz(TL) 0.49	13	n/a	n/a		
BCLL 0.0	Code IRC2006/TP12002	(Matrix)						
BCDL 10.0							Weight: 325 lb	

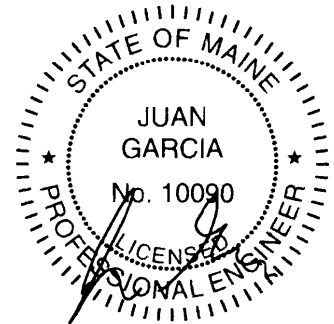
LUMBER	BRACING
TOP CHORD 2 X 4 SYP No.2 *Except* 1-5,8-12: 2 X 4 SPF 1650F 1.5E	TOP CHORD Structural wood sheathing directly applied or 5-9-12 oc purlins, except end verticals.
BOT CHORD 2 X 6 SPF 1650F 1.5E	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 21-22,13-14.
WEBS 2 X 4 SPF 1650F 1.5E *Except* 2-22,11-13: 2 X 4 SYP No.2	

REACTIONS (lb/size) 22=1562/0-3-8 (min. 0-1-12), 13=1567/0-3-8 (min. 0-1-12)
 Max Horz 22=343(LC 7)
 Max Uplift 22=-475(LC 8), 13=-475(LC 9)
 Max Grav 22=2229(LC 18), 13=2233(LC 18)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-23=1334/301, 23-24=1141/309, 3-24=1074/316, 3-25=6546/1331, 4-25=6333/1339, 4-5=3069/622, 5-26=2883/627, 6-26=2813/638, 6-7=2338/589, 7-27=2819/638, 8-27=2889/628, 8-9=3076/623, 9-28=6357/1038, 10-28=6570/1029, 10-29=1078/316, 29-30=1145/309, 11-30=1337/301, 2-22=2455/576, 11-13=2460/576
BOT CHORD 21-22=367/394, 20-21=1062/3787, 19-20=1087/3867, 18-19=1184/4919, 18-31=352/2343, 17-31=352/2343, 16-17=540/4937, 15-16=520/3877, 14-15=510/3795
WEBS 3-21=3792/785, 3-19=374/2054, 4-19=675/2688, 4-18=2871/728, 6-18=166/1321, 7-18=311/291, 7-17=182/1333, 9-17=2887/468, 9-16=294/2704, 10-16=253/2067, 10-14=3800/572, 2-21=239/1432, 11-14=239/1435

- NOTES (12)**
- 2-ply truss to be connected together with 10d (0.148"x3") nails as follows:
 Top chords connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
 Bottom chords connected as follows: 2 X 6 - 2 rows at 0-9-0 oc.
 Webs connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Wind: ASCE 7-05; 120mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) 1-6-0 to 1-6-0, Interior(1) 1-6-0 to 8-4-0, Exterior(2) 8-4-0 to 19-8-0, Interior(1) 19-8-0 to 28-8-0 zone; cantilever left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.80 plate grip DOL=1.80
 - TCLL: ASCE 7-05; Pf=56.0 psf (flat roof snow); Category II; Exp C; Partially Exp.; Ct=1.1, Lu=50-0-0
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 56.0 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

Continued on page 2



November 12, 2009

<p>WARNING: Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI 7473 rev. 10 '08 BEFORE USE. Design valid for use only with Mitek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANS/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 781 N. Lee Street, Suite 312, Alexandria, VA 22314.</p>	<p>Mitek POWER TO PERFORMANCE 14515 N. Quate Forty, Suite #300 Chesterfield, MO 63017</p>
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Job 603711	Truss 002	Truss Type CAMBER	Qty 2	Ply 1	00 Job Reference (optional)	115975839
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Boise Structural Solutions, Biddeford, ME 04005

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LOAD CASE(S) Standard

WARNING Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII 7473 rev. 10 '08 BEFORE USE.

Design valid for use only with Mitek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSIP111 Quality Criteria, D58-89 and IBCSI Building Component Safety Information available from Truss Plate Institute, 781 N. Lee Street, Suite 312, Alexandria, VA 22314.



14515 N. Outer Forty, Suite #300
Chesterfield, MO 63017

Job 603711	Truss 003	Truss Type CAMBER	Qty 2	Ply 2	0 0 Job Reference (optional)	115975840
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Boise Structural Solutions, Biddeford, ME 04005

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NOTES (12)

- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (j=1b) 22=475, 13=475.
- 11) This truss is designed in accordance with the 2006 International Residential Code sections R502.11.1 and R602.10.2 and referenced standard ANSI/TP1 1.
- 12) Drawing prepared exclusively for manufacturing by Boise Structural Solutions

LOAD CASE(S) Standard

WARNING Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII 7473 rev. 10 '08 BEFORE USE.

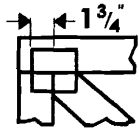
Design valid for use only with Mitek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TP1 Quality Criteria, D58-89 and IBCSI Building Component Safety Information available from Truss Plate Institute, 781 N. Lee Street, Suite 312, Alexandria, VA 22314.



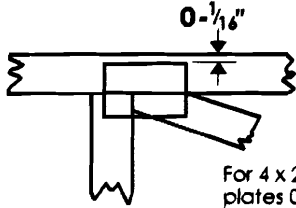
14515 N. Outer Forty, Suite #300
Chesterfield, MO 63017

Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- $\frac{1}{16}$ " from outside edge of truss.



This symbol indicates the required direction of slots in connector plates.

* Plate location details available in MiTek 20/20 software or upon request.

PLATE SIZE

4 x 4

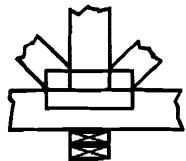
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T, I or Eliminator bracing if indicated.

BEARING

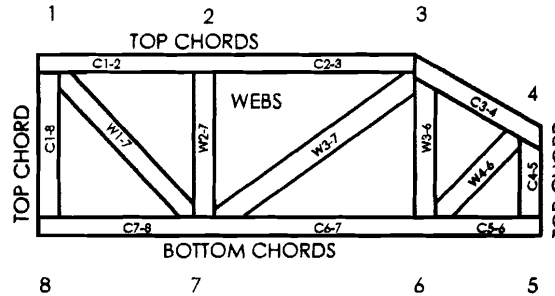


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

Industry Standards:

- ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
- DSB-89: Design Standard for Bracing.
- BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ER-5243, 9604B, 95-43, 96-31, 9667A
NER-487, NER-561
95110, 84-32, 96-67, ER-3907, 9432A

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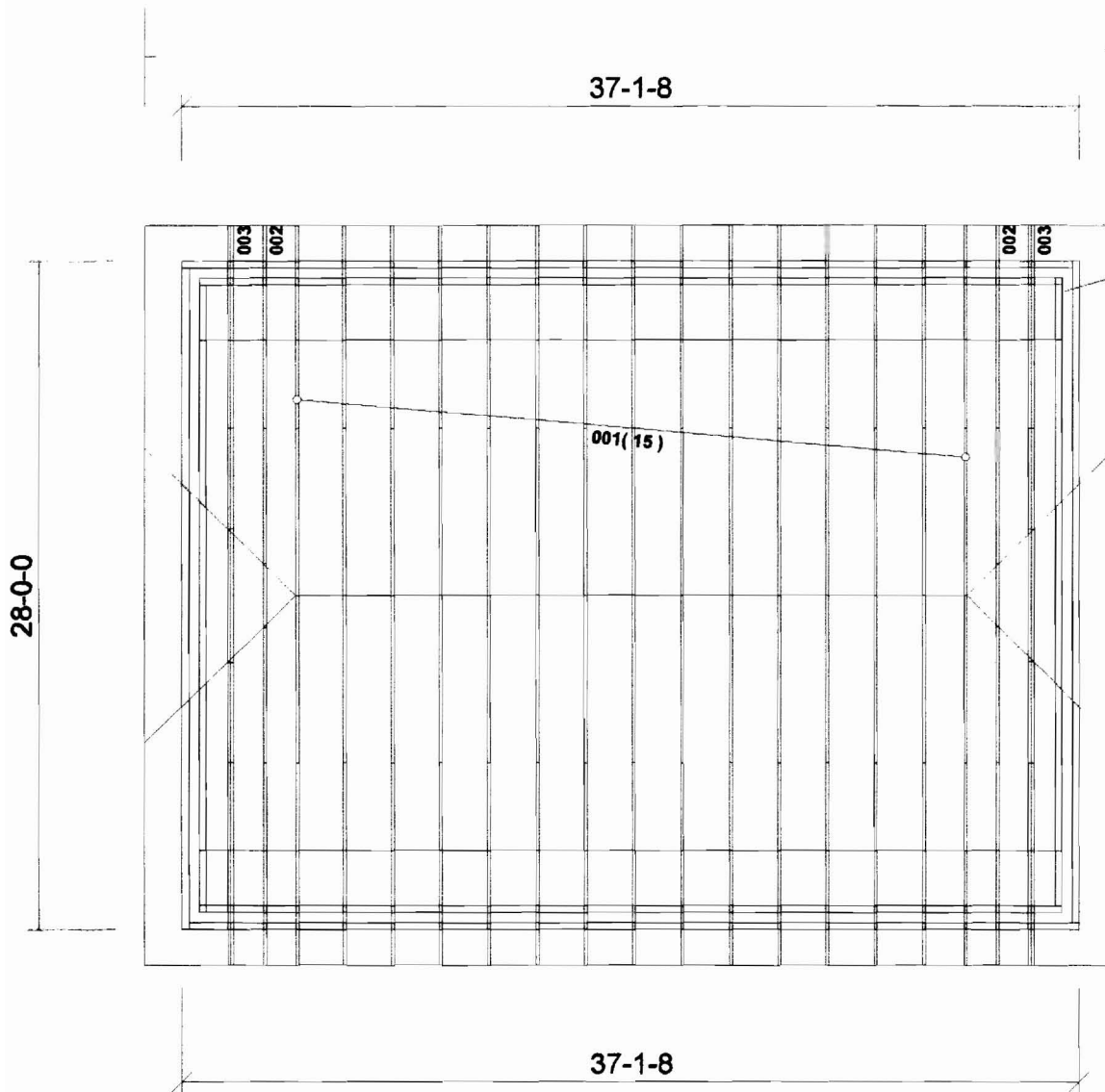


MiTek Engineering Reference Sheet: MI-7473 rev. 10-08

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative T, I, or Eliminator bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other.
- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- Connections not shown are the responsibility of others.
- Do not cut or alter truss member or plate without prior approval of an engineer.
- Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.



PLANS USED FOR QUOTING INDICATE GABLE WALLS BEING BUILT UP TO ROOF LINE. NO TRUSS INCLUDED FOR GABLES.

**PRELIMINARY ROOF TRUSS LAYOUT
(NOT FOR CONSTRUCTION PURPOSES)**

**HAMMOND/PORTLAND
REED JOB
BSS#603711**