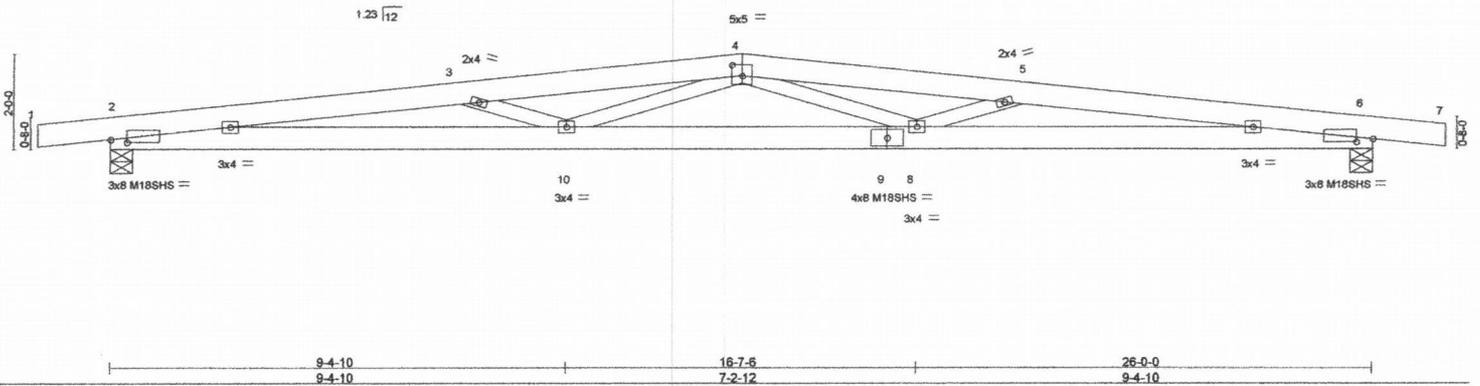


| | | | | | | |
|----------|-------|---------------|-----|-----|-----------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Jim Flynn | R35082239 |
| TM-07819 | A02 | SPECIAL TRUSS | 5 | 1 | | |

PRECISION TRUSS & LUMBER, INC., CLACKAMAS, OR. 97015

7.250 s Aug 25 2011 MITek Industries, Inc. Thu Aug 30 14:23:29 2012 Page 1

ID: A_j?IF915XPk7i6QIDyLzxyiqK-XFBAkV3ImKNRe2lyDuE3Q1CJrGwOSWLNgDEtT8yic6i



| | | | | | |
|---|----------------------|------------|---------------------------------|----------------|-------------|
| Plate Offsets (X,Y): [2:0-4-0-0-0-12], [4:0-2-8-0-2-12], [6:0-4-0-0-0-12] | | | | | |
| LOADING (psf) | SPACING 2-0-0 | CSI | DEFL in (loc) l/defl L/d | PLATES | GRIP |
| TCLL 25.0 | Plates Increase 1.15 | TC 0.29 | Vert(LL) -0.41 8-10 >752 240 | MT20 | 220/195 |
| TCDL 10.0 | Lumber Increase 1.15 | BC 0.46 | Vert(TL) -1.06 8-10 >289 180 | M18SHS | 220/195 |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.36 | Horz(TL) 0.13 6 n/a n/a | | |
| BCDL 10.0 | Code IRC2009/TPI2007 | (Matrix) | | Weight: 134 lb | FT = 0% |

LUMBER
 TOP CHORD 2 X 6 DF 2500F 2.2E
 BOT CHORD 2 X 6 DF 2500F 2.2E
 WEBS 2 x 4 DF Std G

BRACING
 TOP CHORD Structural wood sheathing directly applied or 4-2-12 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 2=1270/0-5-8 (min. 0-1-8), 6=1270/0-5-8 (min. 0-1-8)
 Max Horz 2=18(LC 5)
 Max Uplift 2=-240(LC 3), 6=-240(LC 4)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-5617/720, 3-4=-5336/497, 4-5=-5336/498, 5-6=-5617/721
 BOT CHORD 2-10=-711/5526, 9-10=-469/4695, 8-9=-469/4695, 6-8=-695/5526
 WEBS 4-8=-1/813, 5-8=-422/264, 4-10=-1/813, 3-10=-422/264

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 100mph; TCCL=4.2psf; BCCL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
 - All plates are MT20 plates unless otherwise indicated.
 - 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 2-0-0 wide will fit between the bottom chord and any other members.
 - A plate rating reduction of 20% has been applied for the green lumber members.
 - This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Permit Number

Digital Signature

EXPIRATION DATE: 06/30/14

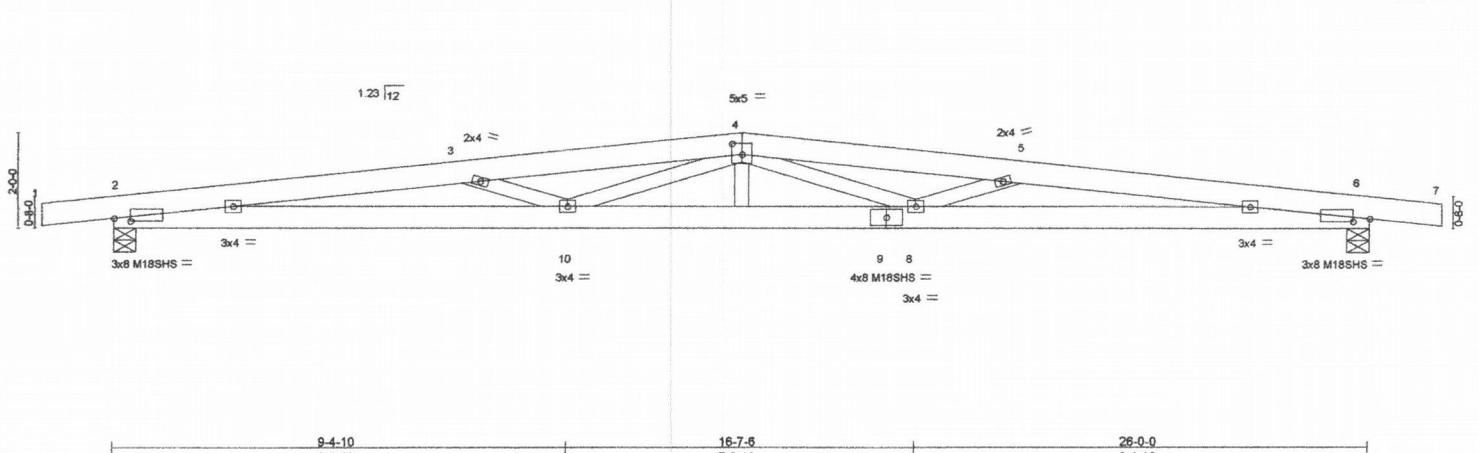
August 31, 2012

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 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/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 781 N. Lee Street, Suite 312, Alexandria, VA 22314.
 If Southern Pine (SP or SPP) lumber is specified, the design values are those effective 06/01/2012 by ALSC or proposed by SPIB.



| | | | | | | |
|-----------------|--------------|---------------------|----------|----------|-----------|-----------|
| Jcb TM-07819 | Truss A01 | Truss Type GABLE | Qty 2 | Ply 1 | Jim Flynn | R35082238 |
|-----------------|--------------|---------------------|----------|----------|-----------|-----------|

PRECISION TRUSS & LUMBER, INC., CLACKAMAS, OR. 97015 7.250 s Aug 25 2011 MITek Industries, Inc. Thu Aug 30 14:23:27 2012 Page 1



| LOADING (psf) | SPACING | CSI | DEFL | PLATES | GRIP |
|---------------|----------------------|----------|------------------------------|----------------|---------|
| TCLL 25.0 | 2-0-0 | TC 0.29 | in (loc) l/defl L/d | MT20 | 220/195 |
| TCDL 10.0 | Plates Increase 1.15 | BC 0.46 | Vert(LL) -0.41 8-10 >752 240 | M18SHS | 220/195 |
| BCLL 0.0 * | Lumber Increase 1.15 | WB 0.36 | Vert(TL) -1.06 8-10 >289 180 | | |
| BCDL 10.0 | Rep Stress Incr YES | (Matrix) | Horz(TL) 0.13 6 n/a n/a | | |
| | Code IRC2009/TPI2007 | | | Weight: 135 lb | FT = 0% |

LUMBER
TOP CHORD 2 X 6 DF 2500F 2.2E
BOT CHORD 2 X 6 DF 2500F 2.2E
WEBS 2 x 4 DF Std G
OTHERS 2 x 4 DF Std G

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-2-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 2=1270/0-5-8 (min. 0-1-8), 6=1270/0-5-8 (min. 0-1-8)
Max Horz=18(LC 5)
Max Uplift=240(LC 3), 6=240(LC 4)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-5617/720, 3-4=-5336/497, 4-5=-5336/498, 5-6=-5617/721
BOT CHORD 2-10=-711/5526, 9-10=-469/4695, 8-9=-469/4695, 6-8=-695/5526
WEBS 4-8=-1/813, 5-8=-422/264, 4-10=-1/813, 3-10=-422/264

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 100mph; TCCL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1-2002.
 - All plates are MT20 plates unless otherwise indicated.
 - Gable studs spaced at 1-4-0 oc.
 - 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 2-0-0 wide will fit between the bottom chord and any other members.
 - A plate rating reduction of 20% has been applied for the green lumber members.
 - This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Permit Number

Digital Signature

EXPIRATION DATE: 06/30/14

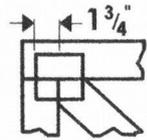
August 31, 2012

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 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, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 781 N. Lee Street, Suite 312, Alexandria, VA 22314.
If Southern Pine (SP or SPP) lumber is specified, the design values are those effective 06/01/2012 by ALSC or proposed by SPIB.

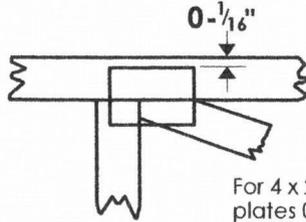


Symbols

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 0-¹/₁₆" 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

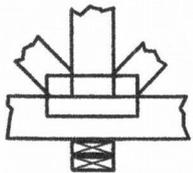
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING

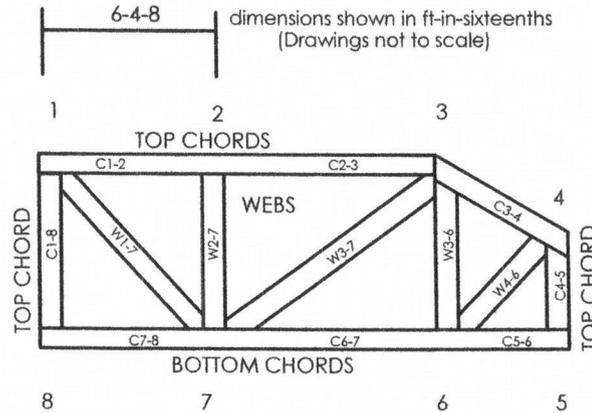


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

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, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

Southern Pine lumber designations are as follows:

SYP represents current/old values as published by AWC in the 2005/2012 NDS
SPp represents SPIB proposed values as provided in SPIB submittal to ALSC dated Sept 15, 2011
SP represents ALSC approved/new values with effective date of June 1, 2012 (2x4 No 2 and lower grades and smaller sizes), and all MSR/MEL grades

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MiTek Engineering Reference Sheet: MII-7473 rev. 01/18/2012

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. 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.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.

NOTE OF AREA:

FRONT ELEVATION AREA BEFORE ELEVATION.

EXISTING OPENING AREA:
 FRONT DOOR 21'
 MAIN FLOOR WINDOW 25'
 ATTIC WINDOW 14'
 TOTAL OPENING AREA 60'

NEW ELEVATION AREA:
 525' SQ x .15 OR % = 78.75'

EXISTING OPEN AREA:
 19.0'
 TOTAL AREA:
 19.0'

ROOF PLAN

1. USE 1/2" CCX FLY @ ALL EXPOSED EAVES.
2. ROOF VENTS MUST HAVE AN AREA EQUAL TO 1/50 OF THE ATTIC AREA
3. SKYLIGHTS TO BE DOUBLE-DOMED-PLASTIC BY VELEX OR EQUAL.
4. ALL ROOF PITCH ARE 12/12 UNLESS NOTED.
5. 300# COMPOSITION SHINGLES OVER 15# FELT.

NOTICE

ALL CONSTRUCTION TO COMPLY WITH THE 2010 EDITION OF THE WASHINGTON RESIDENTIAL SPECIALTY CODE / INTERNATIONAL RESIDENTIAL CODE WITH THE WASHINGTON AMENDMENTS AND WASHINGTON RESIDENTIAL ENERGY EFFICIENCY (CHAPTER 11). COORDINATE ALL APPLICABLE MODIFICATIONS OF THESE DRAWINGS AS REQUIRED



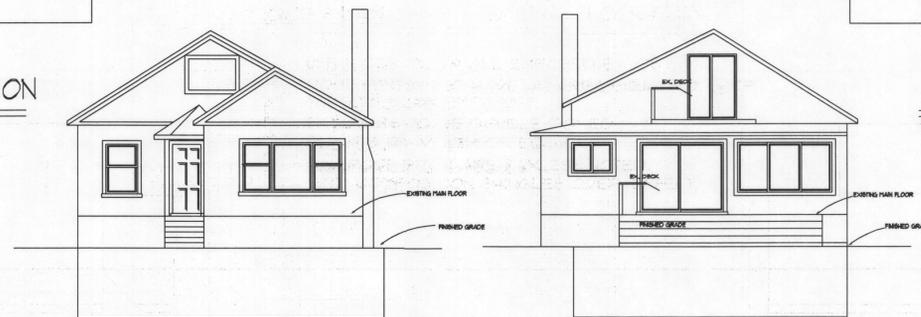
NEW LEFT ELEVATION

1/4"=1'-0"



NEW RIGHT ELEVATION

1/4"=1'-0"

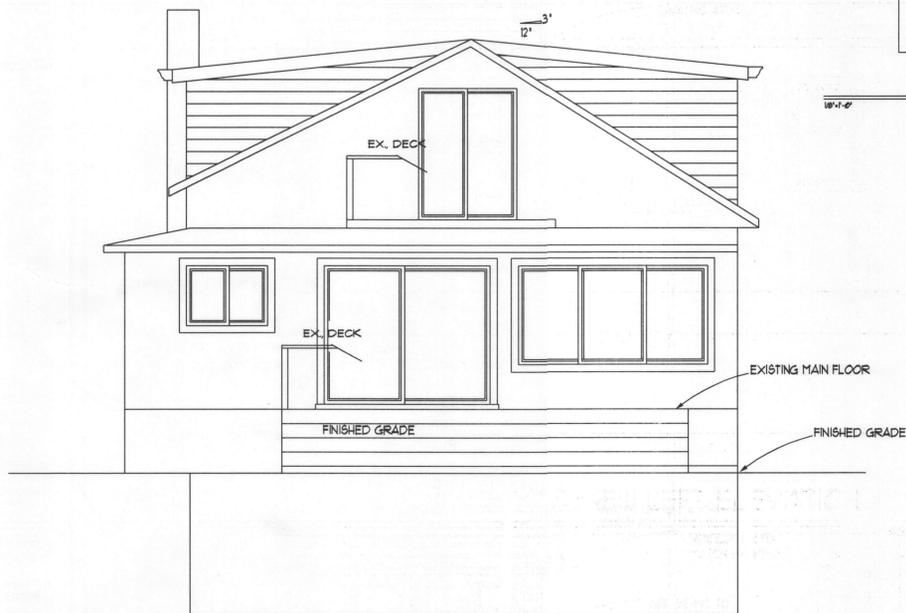


EXISTING FRONT ELEVATION

NEW REAR ELEVATION

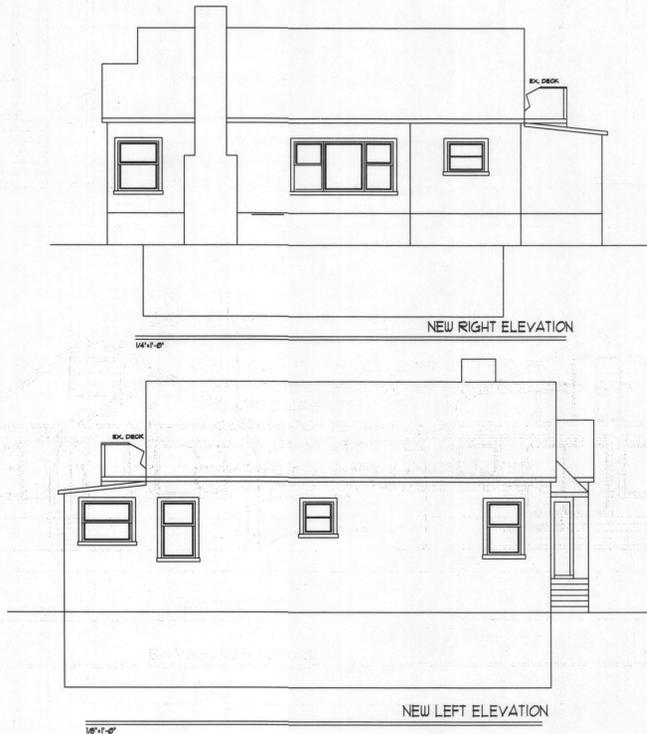
1/4"=1'-0"

1/4"=1'-0"



NEW REAR ELEVATION

1/4"=1'-0"



NEW LEFT ELEVATION

1/4"=1'-0"

1/4"=1'-0"

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 5531 SW Duddington St.
 Portland OR 97219

Drafting & Design
 Custom Plans
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 Site plans
 Permit Management

milkeymontgomery@gmail.com

Patryk & Cynthia Lech
 3528 NE Hancock St.
 PORTLAND OR 97212

12-134966 REV 01 RS

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ELEVATION PLAN

| | |
|-------------|--------------|
| DATE | 09/26/12 rev |
| SCALE | PROJ. NO |
| 1/4" - 1'0" | cl |
| DRAWN | CHECKED |
| num | pb |

EL
 1 of 5

City of Portland
 Bureau of
 Development Services
 By *SL* Date *9/13/12*
 Approved by
 Planning and Zoning Review

City of Portland
 Bureau of Development Services
 SEP 13 2012
 Permit Number

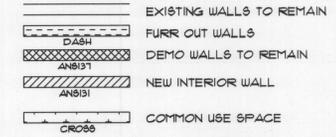
NOTES:

1. ALL FRAMING LUMBER TO BE DFL #2 MIN.
2. FRAME ALL EXTERIOR WALLS W/ 2 X 6 STUDS @ 16" O.C.
3. ALL EXTERIOR HEADERS TO (2) 2X12 DFL #2 UNLESS NOTED W/2" RIGID INSULATION BACKING & 2 X BOTTOM NAILER.
4. ALL INTERIOR HEADERS TO BE 4 X 6 UNLESS NOTED.
5. ALL METAL CONNECTIONS TO BE SIMPSON CO. OR EQUAL.
6. USE 6 X 6 POST W/ECC66 CAP TO POST & CC66 BASE AT REAR BALCONY.
7. BLOCK ALL WALLS OVER 10'-0" HIGH AT MID HEIGHT.

GENERAL NOTES:

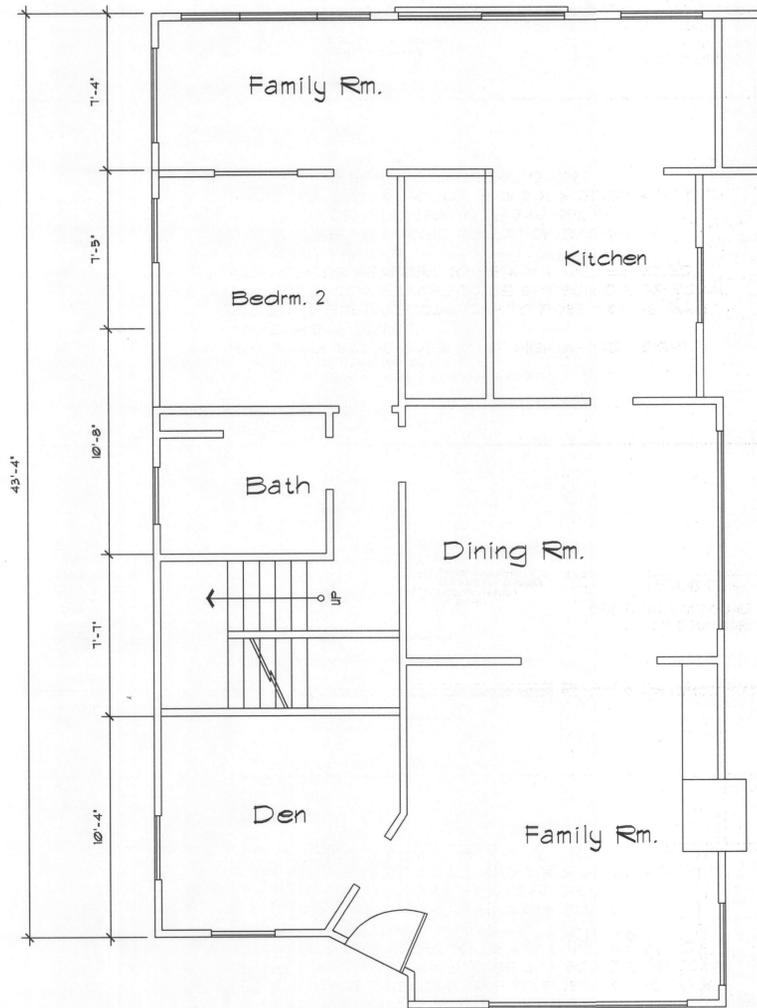
1. ALL CONSTRUCTION TO BE IN COMPLIANCE W/ THE 2008 IRC.
2. CONTRACTOR & ALL SUBCONTRACTORS TO VERIFY ALL DIMENSIONS BEFORE ORDERING OR INSTALLING MATERIALS.
3. INSTALL ALL MATERIALS PER THE MANUF. SPECIFICATIONS.
4. ALL PENETRATIONS IN THE TOP OR BOTTOM PLATES FOR PLUMBING OR ELECTRICAL RUNS TO BE SEALED.
5. PROVIDE 1/2" WATER RESISTANT GYPSUM BD. AROUND ALL TUBS, MODULAR SHOWERS, & SPAS.
6. PROVIDE 1/2" COLD WATER LINE TO REF.
7. VENT DRYER AND ALL FANS TO OUTSIDE AIR THROUGH VENTS W/ DAMPERS.
8. INSULATE THE WATER HEATER TO R-II. GAS W.H. TO BE ON 18" HIGH PLATFORM.

SIMPL HOME DESIGNS ASSUMES NO RESPONSIBILITY FOR THE ACCURACY / VALIDITY OF CONTRACTOR / OWNER SUPPLIED INFORMATION. THE CONTRACTOR / OWNER IS RESPONSIBLE TO CHECK THE PLANS, EXISTING SITE CONDITION, DIMENSIONS, AND TO NOTIFY THE DESIGNER OF ANY ERRORS, OMISSIONS OR DISCREPANCIES PRIOR TO THE START OF CONSTRUCTION. DISCREPANCIES MAY RESULT IN ADDITIONAL COST TO THE OWNER.



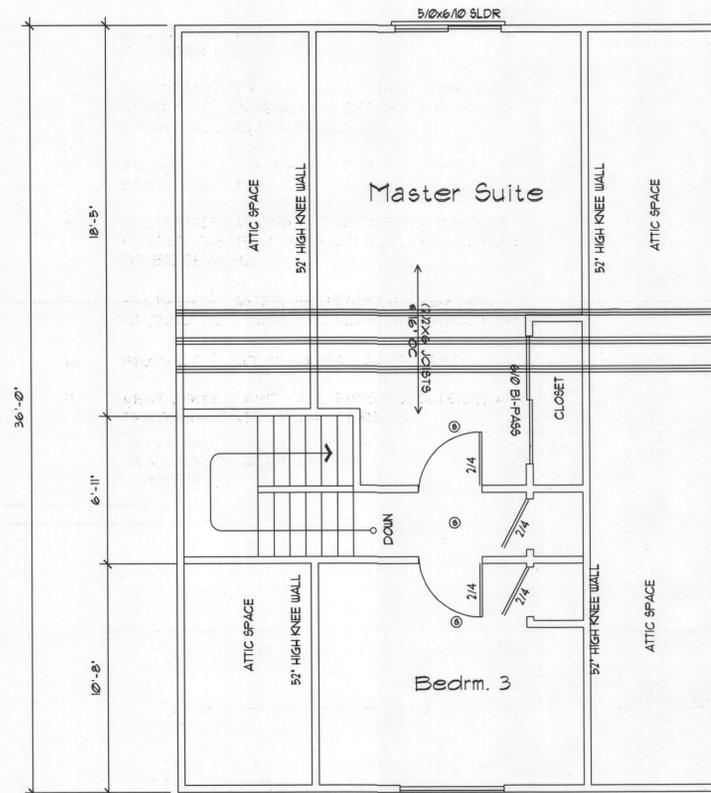
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 Portland OR 97219
 mikevmontgomery@gmail.com

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MAIN FLOOR PLAN

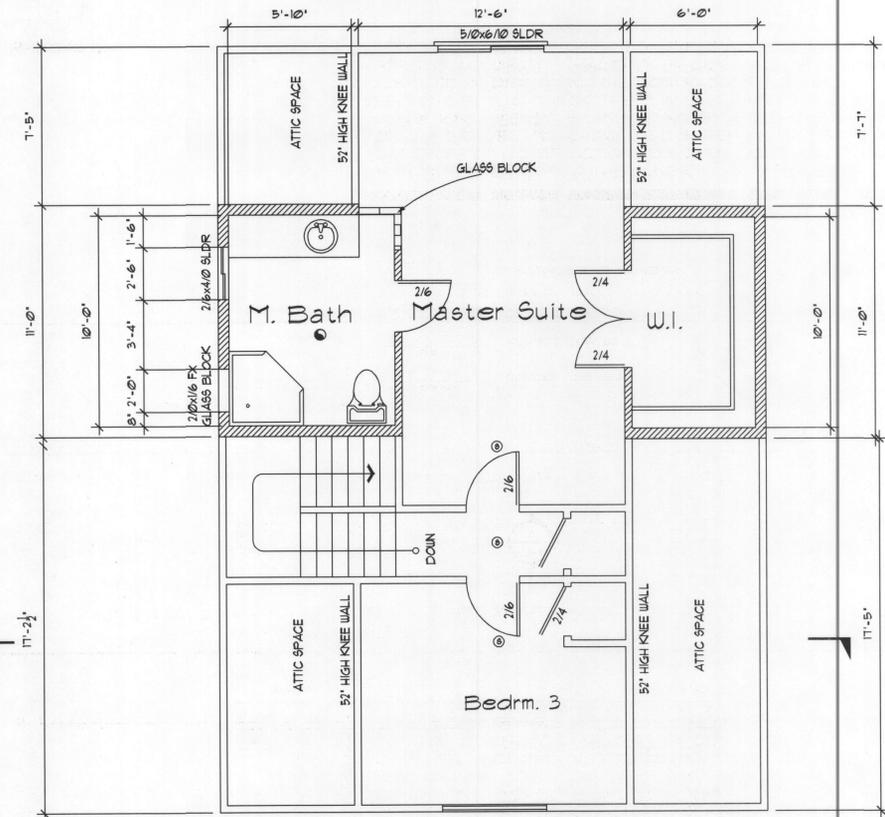
1/4"=1'-0"



EXISTING FLOOR PLAN

1/4"=1'-0"

- ⊙ SMOKE DETECTOR, PERMANENTLY WIRED
- ⊙ 9"-MIN. AIR EXCHANGE FAN
- ⊗ ATTIC ACCESS, CRAWL ACCESS (MIN. HEIGHT 27"X30")
- ⊙ CARBON MONOXIDE ALARM (1 PER FLOOR)



BATH ADDITION FLOOR PLAN

1/4"=1'-0"



FLOOR PLAN(S)

| | |
|----------|--------------|
| DATE | 09/06/12 rev |
| SCALE | 1/4" = 1'-0" |
| DRAWN | mm |
| CHECKED | pb |
| PROJ. NO | cl |

2 of 5

Patryk & Cynthia Lech
 3528 NE Hancock St.
 PORTLAND OR 97212

ROOF GENERAL NOTES

1. ROOF FRAMING = MANUF. TRUSSES @ 24"oc UNLESS NOTED OTHERWISE.
2. ROOF SHTH. = 7/16" OSB (24/0) OR APA RATED SHTH. W/ STAPLES OR 8d @ 6"oc AT ALL EDGES AND 12"oc AT FIELD.
3. PROVIDE BIRD BLOCKING W/ 2 x 12 SCREENED VENTS @ 6'-0"oc (EA. ONE AT VAULTS).
4. VERIFY AND COORDINATE ALL DIMENSIONS WITH FLOOR PLANS.
5. FOR ROOF PITCH REFER TO ROOF PLAN.
6. 12" RAKE AND 24" EAVE OVERHANGS UNLESS NOTED OTHERWISE.
7. ALL EXTERIOR DOOR AND WINDOW HEADERS TO BE 4 x 10 #2 DF. UNLESS NOTED OTHERWISE.
8. TRUSS MANUF. TO ENGINEER AND SUPPLY ALL TRUSS HANGERS.
9. TRUSS MANUF. TO PROVIDE SHOP DRAWINGS PRIOR TO CONSTRUCTION.
10. ROOF SHTH. TO BE STAPLED OR NAILED @ 4"oc TO ALL TRUSSES DESIGNATED AS DRAG STRUTS.
11. TRUSS MANUF. TO DESIGN FOR DRIFT LOADS AS SHOWN ON PLANS
12. PROVIDE FLASHING AND COUNTER FLASHING AT CHIMNEYS AND AT VERTICAL PLANES.

ROOF FRAMING SUPPORT PLAN

ROOF FRAMING NOTES:

1. ALL HEADERS TO BE SUPPORTED BY 2 x 6 TRIMMERS AND KING STUD UNLESS OTHERWISE NOTED.
2. STRUTS SHALL NOT BE SMALLER THAN 2 x 4 MEMBERS. THE UNBRACED LENGTH OF STRUTS SHALL NOT EXCEED 8' & THE MINIMUM SLOPE OF THE STRUTS SHALL NOT BE LESS THAN 45 DEGREES FROM THE HORIZONTAL.
3. EXTEND INTERIOR BEARING WALLS THROUGH TO RAFT. USE 2 x 4 @ 24" O.C. MAX. @ 45 DEGREES MAX.
4. ALL HIPs, RIDGES & VALLEYS TO BE 2 x 10 UNLESS NOTED.
5. ALL RAFTERS TO BE 2x8 DFL #2 @ 24" O.C. UNLESS NOTED.

ROOF PLAN

1. USE 1/2" CCX PLY @ ALL EXPOSED EAVES.
2. ROOF VENTS MUST HAVE AN AREA EQUAL TO 1/50 OF THE ATTIC AREA
3. SKYLIGHTS TO BE DOUBLE DOMED PLASTIC BY VELEX OR EQUAL.
4. ALL ROOF PITCH ARE 3/8 UNLESS NOTED.
5. 30# COMPOSITION SHINGLES OVER 15# FELT.

VERIFICATION NOTES:

VERIFY ALL BEAM SIZES AND LOCATIONS.
VERIFY GIRDER TRUSS LOCATION AND POINT LOADS.
VERIFY ALL THE FOOTING PAD LOCATION AND SIZE.

SPECIFICATIONS

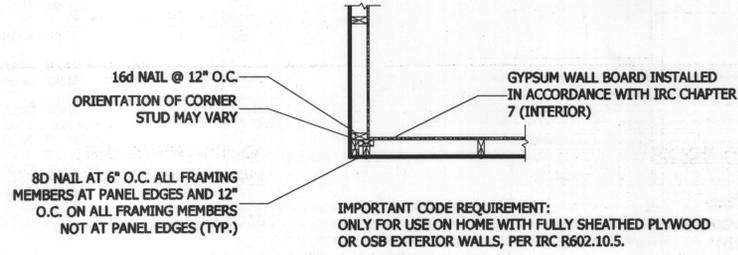
| BUILDING COMPONENTS | FATHJ |
|--|----------|
| Maximum Allowable Window Area | No limit |
| Window Class | U=0.35 |
| Doors, Other than Main Entry | U=0.20 |
| Exterior Main Entry Door (maximum 20' s.f) | U=0.54 |
| Exterior Wall Insulation | R-21 |
| Underfloor Insulation | R-30 |
| Flat Ceiling | R-38 |
| Vaulted Ceilings | R-38 |
| Skylight Class | U=0.50 |
| Skylight Area | ≤2% |
| Basements Walls (that DO NOT extend more than 24' Above Grade) | R-15 |
| Slab Floor Edge Insulation | R-15 |
| Forced Air Duct Insulation | R-2 |

Taken from Table N1101.1 (1) of the 2008 O.R.S.C.

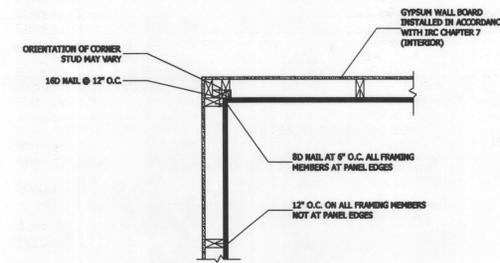
Table N1101.1(2) Additional Measures:

- (1) High efficiency HVAC system:
Gas-fired furnace or boiler with min. AFUE of 90%, or
Air-source heat pump with min. HSPF of 8.5 or
Closed-loop ground source heat pump with min. COP of 3.0

Wood structural panel sheathing shall be installed at corners in accordance with figure R602.10.3 (1). refer to details on page (NO)



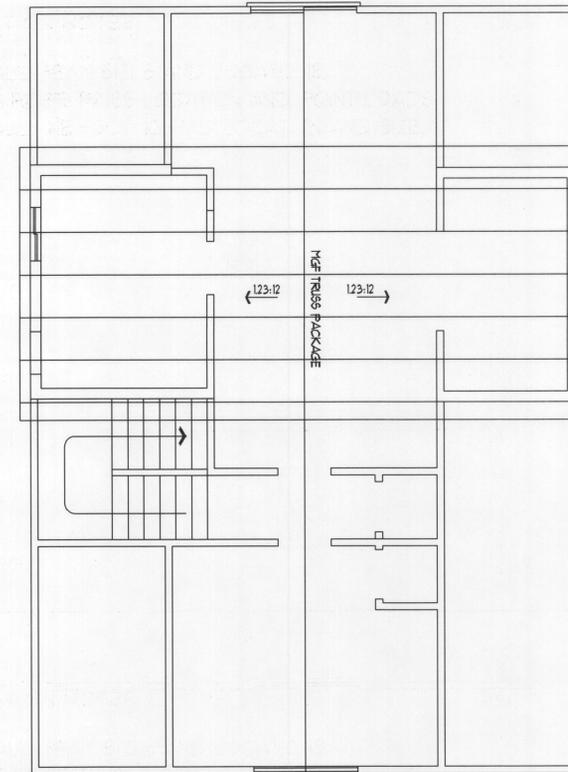
OUTSIDE CORNER
SEE 2008 O.R.S.C. SECT. R602.10.11 (NTS)



IMPORTANT CODE REQUIREMENT:
ONLY FOR USE ON HOMES WITH FULLY SHEATHED PLYWOOD OR OSB EXTERIOR WALLS, PER IRC R602.10.5.

INSIDE CORNER

SEE 2008 O.R.S.C. SECT. R602.10.11 (NTS)



ROOF FRAMING PLAN

1/4"=1'-0"

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1420 SW Mitchell St.
Portland OR 97239
mike@ezpermits.biz

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Site plans
Permit Management

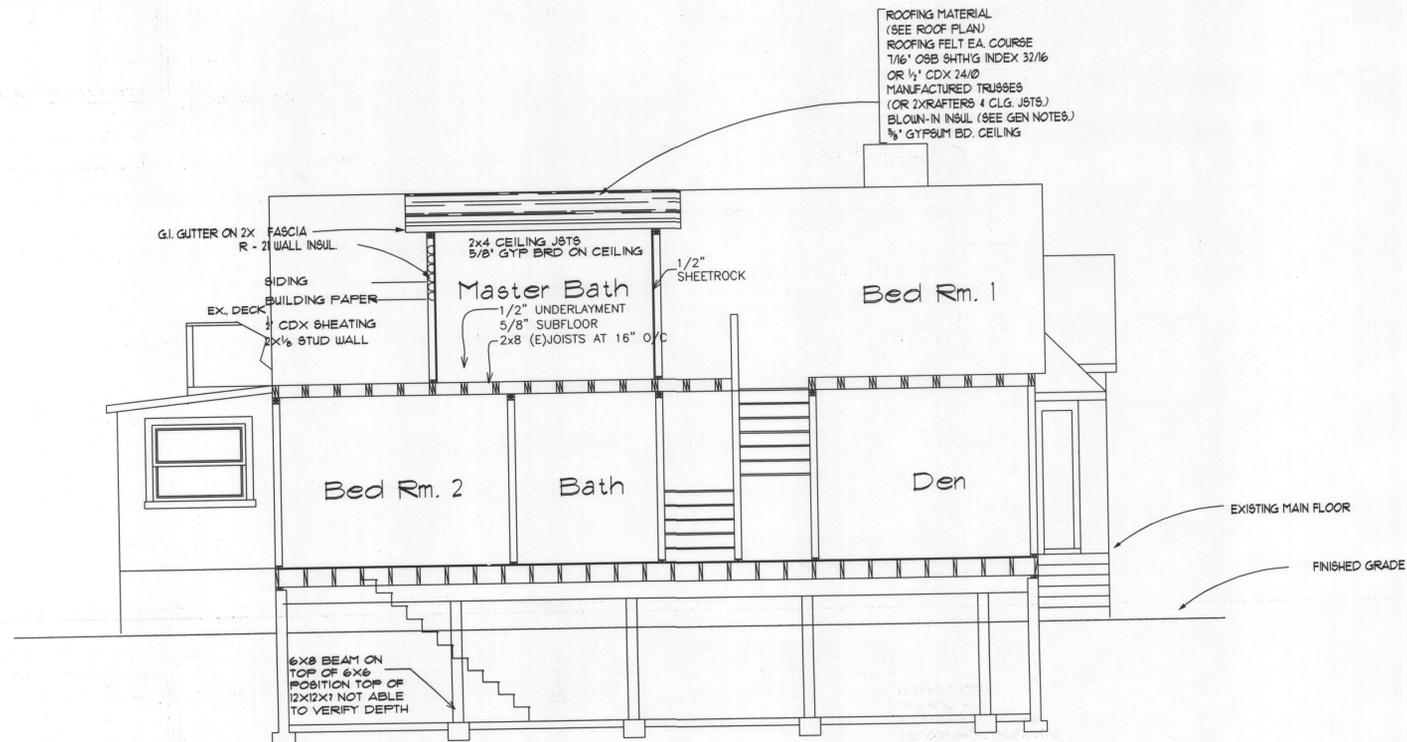
Patryk & Cynthia Lech
3528 NE Hancock St.
PORTLAND OR 97212

CITY OF PORTLAND
REVIEWED FOR CODE
COMPLIANCE
SEP 13 2012
Permit Number

FRAMING PLAN

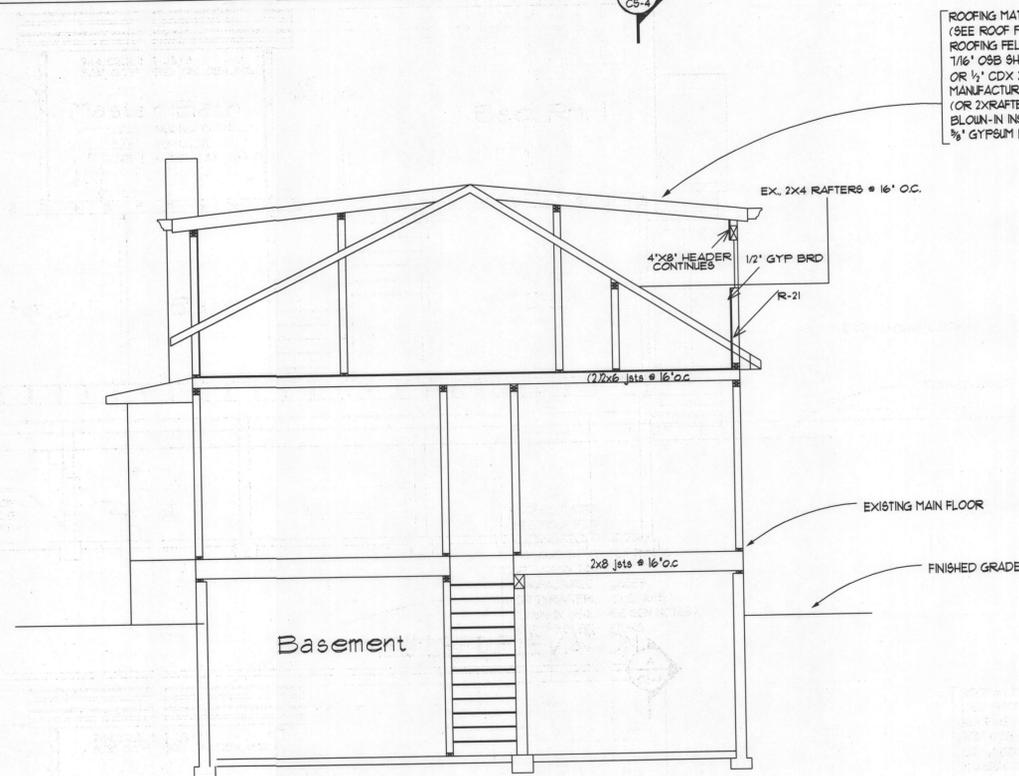
| | |
|--------------|--------------|
| DATE | 09/06/12 rev |
| SCALE | PROJ. NO |
| 1/4" = 1'-0" | cl |
| DRAWN | CHECKED |
| mum | pb |

3 of 5



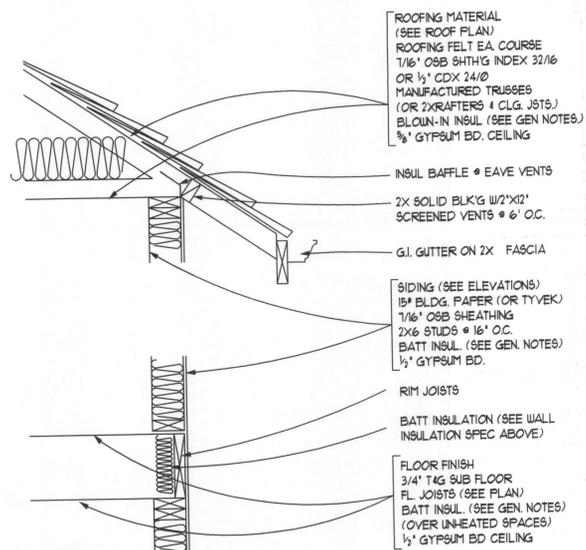
NEW LEFT ELEVATION
A
C5-4

1/4"=1'-0"



NEW REAR ELEVATION
B
C5-4

1/4"=1'-0"



ROOFING MATERIAL
(SEE ROOF PLAN)
ROOFING FELT EA. COURSE
1/16" OSB SHTH'G INDEX 32/16
OR 1/2" CDX 24/0
MANUFACTURED TRUSSES
(OR 2XRAFTERS + CLG. JST'S.)
BLOWN-IN INSUL. (SEE GEN NOTES.)
1/2" GYPSUM BD. CEILING

ROOFING MATERIAL
(SEE ROOF PLAN)
ROOFING FELT EA. COURSE
1/16" OSB SHTH'G INDEX 32/16
OR 1/2" CDX 24/0
MANUFACTURED TRUSSES
(OR 2XRAFTERS + CLG. JST'S.)
BLOWN-IN INSUL. (SEE GEN NOTES.)
1/2" GYPSUM BD. CEILING

SIDING (SEE ELEVATIONS)
1/4" BLDG. PAPER (OR TYVEK)
1/16" OSB SHEATHING
2X6 STUDS @ 16" O.C.
BATT INSUL. (SEE GEN. NOTES)
1/2" GYPSUM BD.

RIM JOISTS
BATT INSULATION (SEE WALL
INSULATION SPEC ABOVE)

FLOOR FINISH
3/4" 1x6 SUB FLOOR
FL. JOISTS (SEE PLAN)
BATT INSUL. (SEE GEN. NOTES)
(OVER UNHEATED SPACES)
1/2" GYPSUM BD. CEILING

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Drafting & Design
Custom Plans
Remodels
Site plans
Permit Management

mikeremontgomery@gmail.com

Patryk & Cynthia Lech
3528 NE Hancock St.
PORTLAND OR 97212

City of Portland
REVIEWED FOR CODE
COMPLIANCE
SEP 13 2012
Permit Number

CROSS SECTIONS

| | |
|--------------|--------------|
| DATE | 09/26/12 rev |
| SCALE | PROJ. NO |
| 1/4" = 1'-0" | cl |
| DRAWN | CHECKED |
| mum | pb |

CS
4 of 5



REVISIONS:
 Δ MISC. PLAN REVISIONS (8-2-12)
 Δ MISC. PLAN REVISIONS (9-11-12)
 Δ
 Δ

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 503-557-1600 (O)
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 wce@comcast.net



LECH RESIDENCE ADDN
 PROJECT NAME:
 PROJECT LOCATION:
 3528 NE HANCOCK ST
 PORTLAND, OR 97121

PROJECT NO.
 W12-148
 DATE:
 8-2-12
 DRAWN BY:
 SMR
 DWG NO.
 S1.0

DESIGN CRITERIA

| | |
|-------------------------|----------------------------|
| WIND SPEED & EXPOSURE | 35 MPH B |
| SEISMIC DESIGN CATEGORY | D |
| ZIP CODE | 97112, 97116, 97117, 97118 |

TYP. DIMENSIONS FOR STD. COMMON NAILS

| NAIL DIMENSION | PENNYWEIGHT | | | | |
|----------------|-------------|--------|-------|--------|-------|
| | 6d | 8d | 10d | 16d | 20d |
| LENGTH | 2" | 2 1/2" | 3" | 3 1/2" | 4" |
| DIAMETER | .113" | .131" | .148" | .162" | .192" |
| HEAD DIAMETER | .266" | .281" | .312" | .344" | .406" |

Values have been taken from Appendix L of the 2005 National Design Specification for Wood Construction by the American Forest & Paper Association

PLYWOOD SHEARWALL SCHEDULE (SEE NOTES 1-3)

| PANEL TYPE | MIN. PANEL SHEATHING THICKNESS | PANEL EDGE NAILING | 3/4" DIAM. SILL J-BOLT SPACING (1" EMBED) | 16d NAIL SPACING AT SILL PLATES | SHEARWALL CAPACITY (PLF) | NOTES |
|------------|--------------------------------|--------------------|---|---------------------------------|--------------------------|---------------|
| TYP. | 7/16" | 8d @ 6" O.C. | 48" O.C. | 10" O.C. | 200 | |
| (D) | 7/16" | 8d @ 6" O.C. | 48" O.C. | 8" O.C. | 260 | |
| (E) | 7/16" | 8d @ 4" O.C. | 36" O.C. | 4" O.C. | 350 | |
| (F) | 7/16" | 8d @ 3" O.C. | 14" O.C. | 4" O.C. | 490 | SEE NOTE 4 |
| (G) | 7/16" | 10d @ 3" O.C. | 10" O.C. | 3" O.C. | 600 | SEE NOTE 4 |
| (H) | 7/16" | 10d @ 2" O.C. | 16" O.C. | 2" O.C. | 710 | SEE NOTES 4-5 |

- NOTES:**
- 1) Sheathing, all-veneer plywood, plywood siding, except Group B Species. Minimum nailing shall be 8d nails @ 6" o.c. at panel edges and 12" o.c. in the field of the panel, UNO. All nails to be 'Common' or 'Galvanized Box' type nails. Galvanized nails shall be hot-dipped or tumbled.
 - 2) All panel edges backed with 2x or wider framing using Douglas Fir-Larch No.2 or better lumber. Panels may be installed either horizontally or vertically. 2x stud spacing shall not exceed 16" o.c. at shearwalls with sheathing each side, studs must be 2x6 min. All anchor bolts shall have a minimum 3' x 3' x 1/4" thick plate washers.
 - 3) Shearwall panel edge nailing shall be installed at shearwall and stud(s) where holdown is attached. If holdown requires multiple studs then install 1/2 panel edge nailing to each stud. Face nail multiple studs at holdowns together with 16d nails @ 12" o.c. minimum, UNO.
 - 4) At these panels only, all framing at adjoining panel edges shall be 3" nominal or wider.
 - 5) At these panels only, foundation sill plates shall not be less than a single 3" nominal member and nails should be staggered when spaced at 2" o.c. Use 20d common nails in place of 16d nails specified in shearwall schedule.

SHEARWALL HOLDOWN SCHEDULE (SEE NOTES 1-3)

| HOLDOWN TYPE | SIMPSON BRAND OR EQUIVALENT | HOLDOWN CAPACITY (LBS) | INSTALLATION NOTES |
|--------------|-----------------------------|------------------------|---|
| (1) | MSTA24 | 920 | Install strap across floor line into face of 2x stud with (8) 16d common nails each end of strap. Install equal lengths of strap above and below floor joist. |
| (2) | MSTA36 | 1400 | Install strap across floor line into face of 2x stud with (8) 16d common nails each end of strap. Install equal lengths of strap above and below floor joist. |
| (TA) | HDU2 | 3075 | Center holdown with 4x or Dbl 2x studs (min) and attach to studs with (6) Simpson 1/4" x 2 (12) 10d screws. (Attach Dbl 2x together with 16d common nails @ 48" o.c.) Install 3/8" A36 threaded rod 18" minimum into existing concrete with Simpson MTC-100 epoxy. (Special inspection of anchor installation is required). |

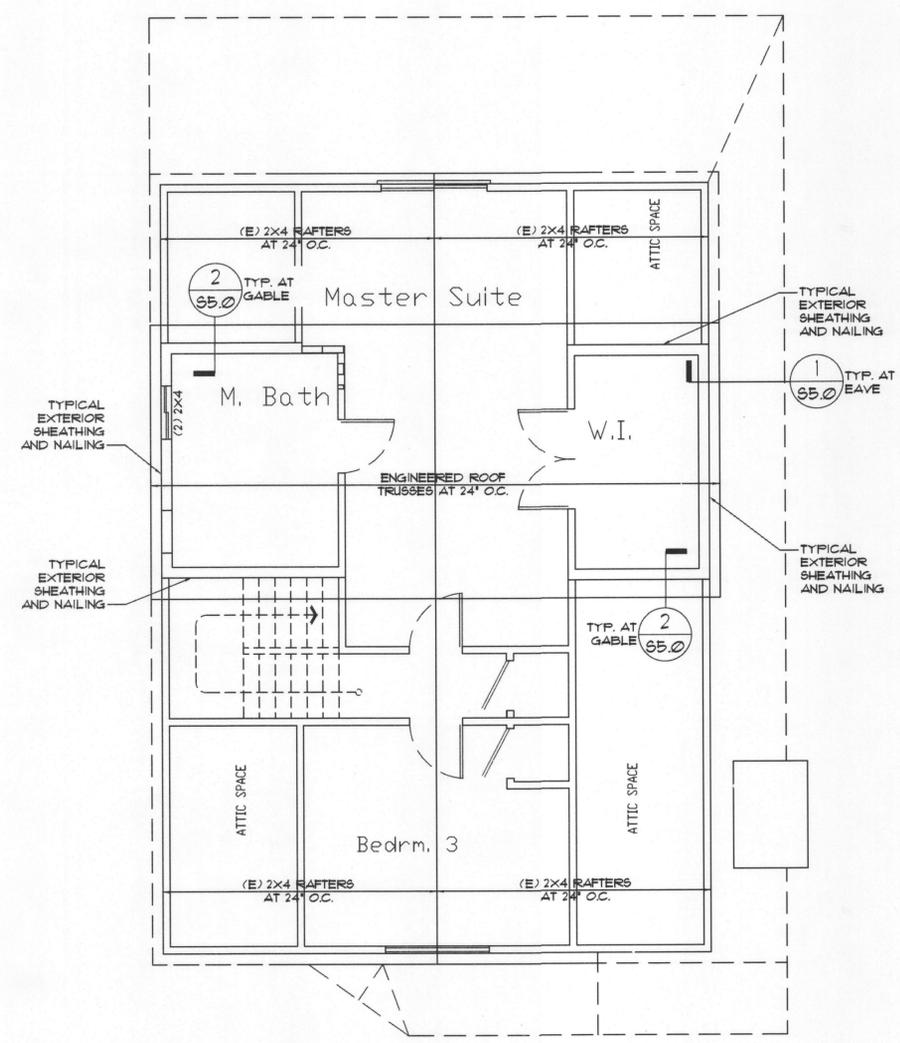
- NOTES:**
- 1) Anchor bolts shall be A307 or Std. J-bolt or Headed bolt (ASTM A36 threaded rod with double nut and washer may be substituted). Center holdown on stud(s) (minimum 3' from edge of concrete).
 - 2) All studs at where holdowns attach shall be Douglas Fir-Larch or lumber with equivalent specific gravity.
 - 3) Holdowns at corners shall attach to corner studs. Holdowns away from corners shall attach to floor or window jamb full height studs. Holdowns must attach to studs receiving their panel edge nailing. See Shearwall Schedule or Holdown Installation Notes for all other information.

ROOF SHEATHING REQUIREMENTS:
 INSTALL 15/32" APA RATED CDX PLYWOOD (OR APA RATED ORIENTED STRAND BOARD) WITH 8d COMMON NAILS @ 6" O.C. AT PANEL EDGES AND AT 12" O.C. IN THE FIELD OF THE PANEL BLOCK ALL PANEL EDGES INTO BLOCKING AT ALL EXTERIOR WALLS AND INTERIOR SHEARWALLS.

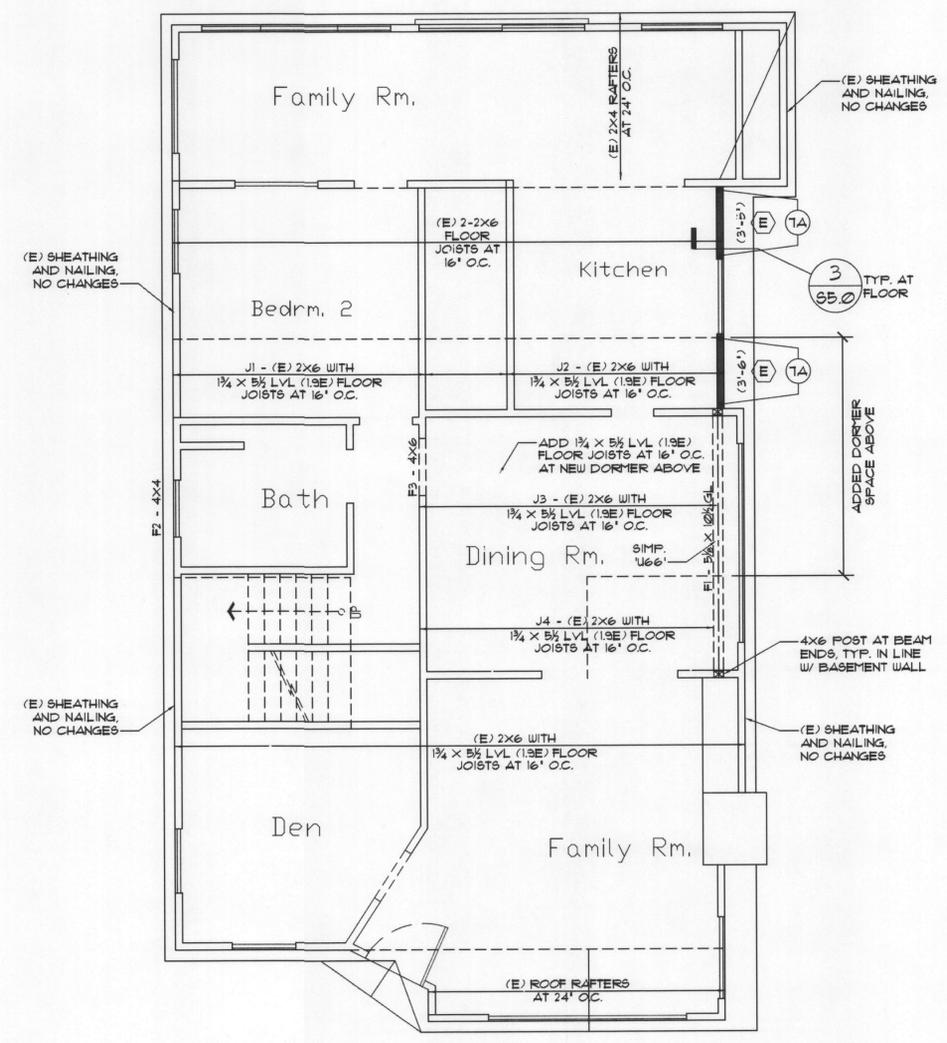
FLOOR SHEATHING REQUIREMENTS:
 INSTALL 3/4" APA RATED CDX PLYWOOD (OR APA RATED ORIENTED STRAND BOARD) WITH 16d COMMON NAILS @ 6" O.C. AT PANEL EDGES AND AT 12" O.C. IN THE FIELD OF THE PANEL BLOCK ALL PANEL EDGES. ALL JOINTS SHALL OCCUR ON A COMMON MEMBER. INSTALL PANEL EDGE NAILING INTO BLOCKING AT ALL SHEARWALLS.

EXT. PLYWOOD WALL SHEATHING REQUIREMENTS:
 INSTALL 7/16" APA RATED CDX PLYWOOD (OR APA RATED ORIENTED STRAND BOARD) WITH 8d COMMON NAILS @ 6" O.C. AT PANEL EDGES AND AT 12" O.C. IN THE FIELD OF THE PANEL BLOCK ALL PANEL EDGES. ALL JOINTS SHALL OCCUR ON A COMMON MEMBER.

- ROOF/FLOOR FRAMING NOTES:**
- 1) STUD BEARING WALLS ARE 2X6 DFL? STUDS @ 16" O.C. UNO.
 - 2) SAWN LUMBER MEMBERS TO BE DOUGLAS FIR LARCH #2 GRADE, UNO.
 - 3) PARALLEL BEAMS (PBL) ARE TO BE TRUSS JOIST MACHILLAN (22E).
 - 4) MICROLAM BEAMS (LVL) ARE TO BE TRUSS JOIST MACHILLAN (19E).
 - 5) USE 4X6 DFL? MIN. AT HEADER LOCATIONS UNO.
 - 6) USE DBL STUD MIN. BENEATH BEAM/HEADER ENDS, UNO.

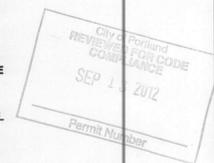


A UPPER FLR SHEARWALL PLAN
 S1.0 SCALE = 1/4" = 1'-0"
 NOTE: SEE ARCHITECTURAL SHEETS FOR INFORMATION NOT SHOWN.



B MAIN FLOOR SHEARWALL PLAN
 S1.0 SCALE = 1/4" = 1'-0"
 NOTE: SEE ARCHITECTURAL SHEETS FOR INFORMATION NOT SHOWN.

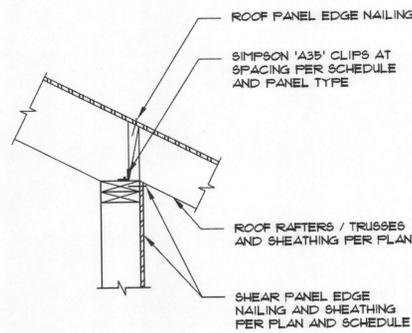
NOTE: WHERE SHEARWALLS ARE LABELED ON PLANS AT EXISTING CONDITIONS, INSTALL ADDITIONAL SILL PLATE ANCHORS AS REQUIRED PER SHEARWALL SCHEDULE OR WITH A36 THRD'D RODS DRILLED AND INSTALLED 6" MIN. INTO EXISTING CONCRETE SHERWALLS WITH SIMPSON 'SET-XP' EPOXY (SPECIAL INSPECTION OF INSTALLATION IS NOT REQUIRED).



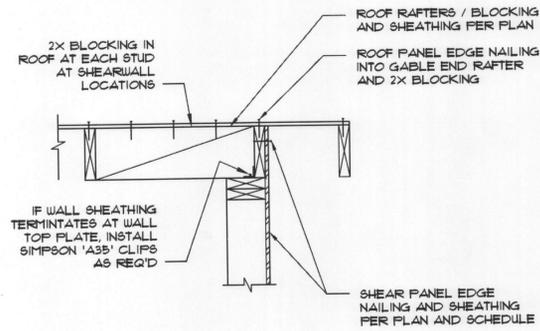
| ROOF SHEAR TRANSFER NAILING SCHEDULE | | |
|--------------------------------------|-------------------------|---------------------|
| PANEL TYPE | ROOF PANEL EDGE NAILING | SIMPSON 'A35' CLIPS |
| TYP. | 8d @ 6' O.C. | 40' O.C. |
| (D) | 8d @ 4' O.C. | 32' O.C. |
| (E) | 8d @ 3' O.C. | 24' O.C. |
| (F) | 10d @ 3' O.C. | 15' O.C. |
| (G) | 10d @ 2½' O.C. | 12' O.C. |
| (H) | 10d @ 2' O.C. | 9' O.C. |

| ROOF SHEAR TRANSFER NAILING SCHEDULE | | |
|--------------------------------------|-------------------------|---------------------|
| PANEL TYPE | ROOF PANEL EDGE NAILING | SIMPSON 'A35' CLIPS |
| TYP. | 8d @ 6' O.C. | 40' O.C. |
| (D) | 8d @ 4' O.C. | 32' O.C. |
| (E) | 8d @ 3' O.C. | 24' O.C. |
| (F) | 10d @ 3' O.C. | 15' O.C. |
| (G) | 10d @ 2½' O.C. | 12' O.C. |
| (H) | 10d @ 2' O.C. | 9' O.C. |

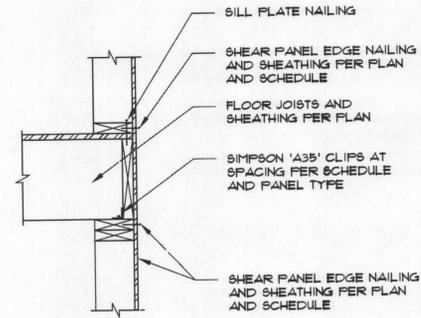
| FLOOR SHEAR TRANSFER NAILING SCHEDULE | | |
|---------------------------------------|----------------------------------|-----------------------|
| PANEL TYPE | SILL PLATE NAILING | SIMPSON 'A35' CLIPS |
| TYP. | 16d @ 12' O.C. | 40' O.C. |
| (D) | 16d @ 10' O.C. | 32' O.C. |
| (E) | 16d @ 6' O.C. | 22' O.C. |
| (F) | 16d @ 4' O.C. | 16' O.C. |
| (G) | 16d @ 4' O.C. | 12' O.C. |
| (H) | SIMPSON 'SDS ¼" X 4½" @ 1½' O.C. | SIMP 'LTP4' @ 9' O.C. |



1 SHEAR TRANSFER AT RF
 55.0 SCALE = 1" = 1'-0"



2 SHEAR TRANSFER AT RF
 55.0 SCALE = 1" = 1'-0"



3 SHEAR TRANSFER AT FLR
 55.0 SCALE = 1/2" = 1'-0"



| REVISIONS: | DATE | DESCRIPTION |
|------------|------|--------------------------------|
| Δ | | MISC. PLAN REVISIONS (8-21-12) |
| Δ | | MISC. PLAN REVISIONS (9-11-12) |
| Δ | | |
| Δ | | |

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PROJECT NAME:
LECH RESIDENCE ADDN

PROJECT LOCATION:
 3528 NE HANCOCK ST
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PROJECT NO.
 W12-148

DATE:
 8-2-12

DRAWN BY:
 SMR

DWG. NO.
 55.0

