

# City of Portland, Oregon - Bureau of Development Services



1900 SW Fourth Avenue • Portland, Oregon 97201 • 503-823-7300 • www.portlandoregon.gov/bds

# **Deferred Submittal Requirements and Application**

Applicants will provide:	
☐ A copy of this application	☐ Permit fee (paid at time of submittal)
☐ Three (3) sets of plans	☐ If the DFS includes exterior elements, plan
One (1) set of calculations	views and elevations identifying the location(
☐ Two (2) sets of product information	as approved by the Architect and Engineer of Record must be submitted.
Drawings and calculations must be stampe	d
and signed by an Engineer registered in Or egon and approved by the Architect/Engine	approved plans (NOTE: Approved plans do
of record for the building.	not need to be submitted if your project has a development liaison assigned)
Contractor submittal information:	
Contact name STAN LINK	
Address 80 Bot 42211	
City P+z	State_0Zip Code_97242_
Phone 503 320.6144 E-mail 5	STAN, LINK (a) COMEAST. Net
Value of deferred submittal \$6500	Issued main building permit # 12-1\$3345
Description/Scope of work 6004	Russ system
Fees	
	ion to the standard building review fee paid on the main tional processing and review time associated with the
	plan submittals is 10 percent of the building permit fee portion of the project.,
	lly dwelling\$123 for DFS with valuation of less than or equal to \$222,000
Commercial and all other project	ects\$307 for DFS with valuation of less than or equal to \$680,000
he Bureau of Development Services (BDS) fee sch www.portlandoregon.gov/bds   select the Fees tab	Security of the second
lelpful Information	
ureau of Development Services	Important Telephone Numbers
900 SW 4th Avenue, Portland, OR 97201	BDS main number503-823-7300
ubmit your plans to: evelopment Services Center (DSC), First Floor,	DSC automated information line
esday - Friday:	Building code information 503-823-1456 BDS 24 hour inspection request line 503-823-7000
00 am - 12:00 pm	Residential information for
osed Mondays	one and two family dwellings 503-823-7388
	City of Portland TTY 503-823-6868

DEFERRED SUBMITTAL REQUIREMENTS AND APPLICATION

(503) 230-8876 Ph

(503) 226-4745 Fax

# Sherman Engineering, Inc.

3151 NE Sandy Blvd. #100, Portland, OR 97232

#### **MEMORANDUM**

TO:

Mr. John Cole

**Lundin Cole Architects** 

Portland, OR (503) 241-3174

DATE:

February 26, 2013

FROM:

James Meese

Associate

RE:

1321 SE Miller St. #12-183345-000-00-RS

Portland, Oregon

#### NOTE:

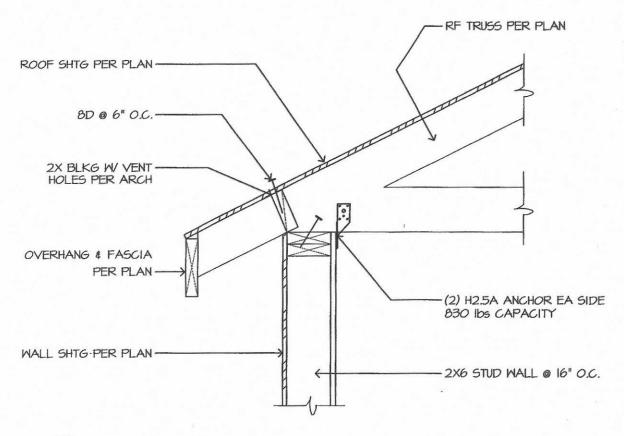
This memo is to inform you of our recommendation for changes to our original engineering design.

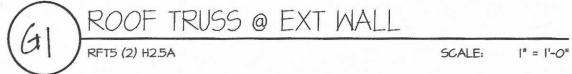
We have reviewed the foundation and calculations on this project and conclude that special inspections are not required for the concrete work, based on the building type and the strength of concrete required to meet our design.

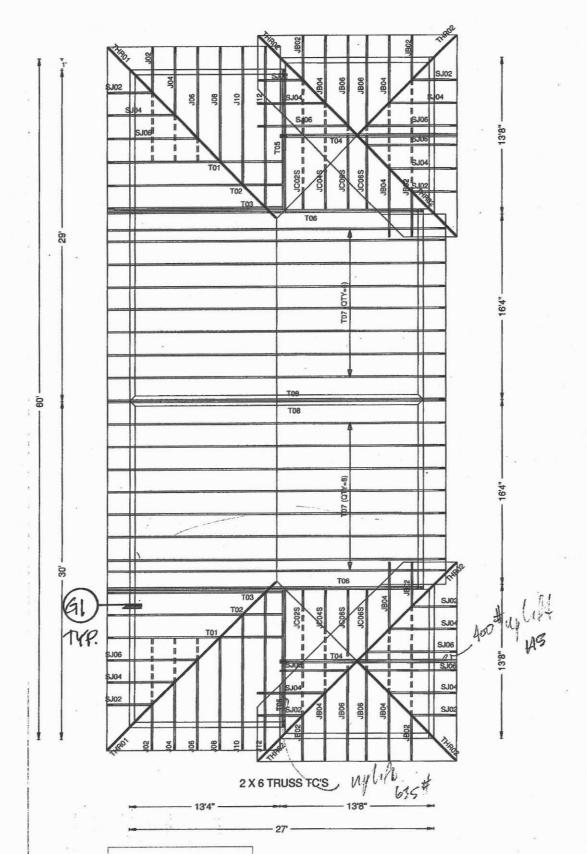
Additionally we have reviewed the roof package by the truss manufacturer. We find the truss package to be acceptable for this project as is, but we are including a detail to handle uplift forces on the girder trusses. It's a detail to tie-down truss girders to exterior walls.

If you have any questions please give me a call.

CC: File-Burrell 022613.doc







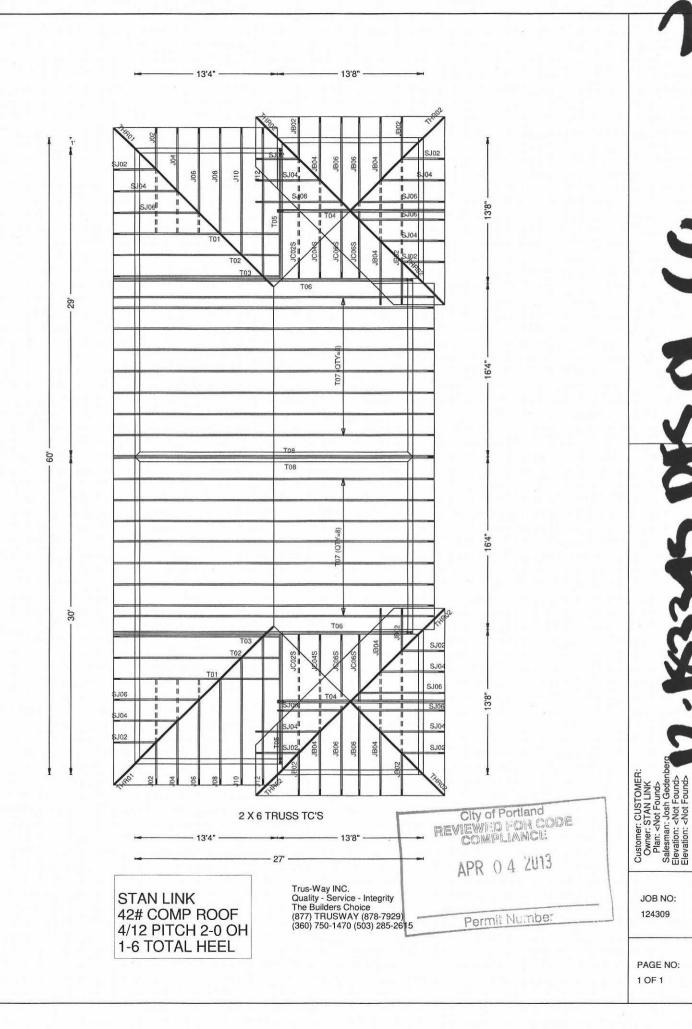
We91

STAN LINK 42# COMP ROOF 4/12 PITCH 2-0 OH 1-6 TOTAL HEEL Trus-Way INC. Quality - Service - Integrity The Builders Choice (877) TRUSWAY (878-7929) (360) 750-1470 (503) 285-2615

PAUNEY 4-PUEX Customer: CUSTOMER: Owner: STAN LINK Plan: Not Found> Salesmant: Josh Gedenbe

> JOB NO: 124309

PAGE NC 1 OF 1



### ITW Building Components Group, Inc.

8351 Rovana Circle Sacramento, CA 95828 (916) 387-0116 Document ID:1URC561-Z1220104403

Truss Fabricator: Trus-Way, Inc

Job Identification: 124309-CUSTOMER: -- 1301 SE MILLER ST PORTLAND, OR

Model Code: IRC

Truss Criteria: IRC2009/TPI-2007(STD)

Engineering Software: Alpine proprietary truss analysis software. Version 10.03.

Truss Design Loads: Roof - 42 PSF @ 1.15 Duration

Floor - N/A

Wind - 110 MPH (ASCE 7-05-Closed)

#### Notes:

Determination as to the suitability of these truss components for the structure is the responsibility of the building designer/engineer of

2. As shown on attached drawings; the drawing number is preceded by: CAUSR561

Details: A1103005-GBLLETIN-

Submitted by CWC 10:43:45 11-20-2012 Reviewer: LVT

#	Ref Descr	iption Drawing#	Date
1	16459J02	12325038	11/20/12
2	16460J04	12325039	11/20/12
3	16461J06	12325040	11/20/12
4	16462J08	12325041	11/20/12
5	16463J10	12325042	11/20/12
6	16464J12	12325043	11/20/12
7	16465JB02	12325044	11/20/12
8	16466JB04	12325045	11/20/12
9	16467JB06	12325046	11/20/12
10	16468JC02S	12325047	11/20/12
11	16469JC04S	12325048	11/20/12
12	16470JC06S	12325049	11/20/12
13	16471SJ02	12325050	11/20/12
14	16472SJ02	12325051	11/20/12
15	16473SJ04	12325052	11/20/12
16	16474SJ04	12325053	11/20/12
17	16475SJ06	12325054	11/20/12
18	16476SJ06	12325055	11/20/12
19	16477THR01	12325100	11/20/12
20	16478THR02	12325058	11/20/12
21	16479THR02	12325059	11/20/12
22	16480THR02	12325060	11/20/12
23	16481T01	12325101	11/20/12
24	16482T02	12325102	11/20/12
25	16483T03	12325103	11/20/12
26	16484T04	12325061	11/20/12
27	16485T05	12325106	11/20/12
28	16486T06	12325109	11/20/12
29	16487T07	12325056	11/20/12
30	16488T08	12325057	11/20/12



EXP. 14/20/2012

City of Portland REVIEWED FOR CODE COMPLIANCE

APR 0 4 2013

Permit Number

Top chord 1.5"x5.625" DF-L SS(g) Bot chord 1.5"x5.625" DF-L SS(g) Webs 2x4 DF-L Standard(g) Special loads TC- From

Connectors in green lumber (g) designed using NDS/TPI reduction factors.

-----(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15) 65 plf at -2.00 to 65 plf at 1.91 10 plf at 0.00 to 10 plf at 7.94 BC- From

BC- 360.00 lb Conc. Load at 2.00 BC- 38.75 lb Conc. Load at 4.00, 6.00

Wind loads and reactions based on MWFRS.

110 mph wind, 18.72 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=4.2 psf, wind BC DL=6.0

Bottom chord checked for 10.00 psf non-concurrent bottom chord live load applied per IRC-09 section 301.5.

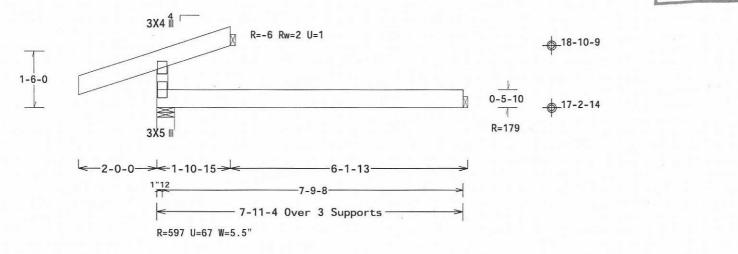
Calculated vertical deflection is 0.02" due to live load and 0.33" due to total load at X = 3-8-10.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 2.00.

Unbalanced snow loads have not been considered.

REVIEWED FOR CO NUM Permit

2-1-10



PLT TYP. Wave

Trus-Way, Inc 360-750-1470 3901 NE 68th St., Vancouver WA

**ALPINE** 

FT/RT=8%(0%)/4(1)\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING.
REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218
NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WTCA (MODOL TRUSS COUNCIL OF AMERICA, 6300
ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS
OTHERMISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PARLES AND BOTTOM CHORD SHALL HAVE

Design Crit: IRC2009/TPI-2007(STD)

\*IMPORTANT\*\*FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BUILDING COMPONENTS ITW Building Components Group, Inc. Sacramento, CA 95828

"" TIMPURL IAN I" "FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BUILDING COMPONENTS GROUP. INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN, ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NOS (NATIONAL DESIGN SPEC, BY AFAPA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16CA (W, K/H/SS/K) ASTM AGS3 GRADE 40/50 (W, K/H/SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND. UNLESS OTHERWISE LOCATED ON THIS DESIGN. POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX AS OF TPI1-2002 SEC.3. A SEAL ON THIS NAME INSTITUTION OF THE STATES FOLLOWER BY (1) SMALL BE PER ANNUA AS UT IPIT-2002 SEC.3. A SEAL ON THIS DEAMING THE ACCESSIONAL ENGINEERING RESPONSIBILITY SECRET FOR THE TRISS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSITPH 1 SEC. 2 THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSITPH 1 SEC. 2 THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSITPH 1 SEC. 2 THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING SHOWN THE SECRET FOR THE

10.03.92-0000 PROFES EXP. 12-31-13 11/20/2012

OR/-/1/-	-/-/R/-	Scale = .4375"/Ft.
TC LL	25.0 PSF	REF R561 16459
TC DL	7.0 PSF	DATE 11/20/12
BC DL	10.0 PSF	DRW CAUSR561 12325038
BC LL	0.0 PSF	CA-ENG LVT/CWC
TOT.LD.	42.0 PSF	SEQN- 496495
DUR.FAC.	1.15	FROM KTC
SPACING	24.0"	JREF- 1URC561_Z12

City of Portland

Permit Number

Scale = .4375"/Ft.

Top chord 1.5"x5.625" DF-L SS(g)
Bot chord 1.5"x5.625" DF-L SS(g)
Webs 2x4 DF-L Standard(g)

Connectors in green lumber (g) designed using NDS/TPI reduction factors.

Bottom chord checked for  $10.00~\mathrm{psf}$  non-concurrent bottom chord live load applied per IRC-09 section 301.5.

Calculated vertical deflection is 0.05" due to live load and 0.14" due to total load at X = 3-11-10.

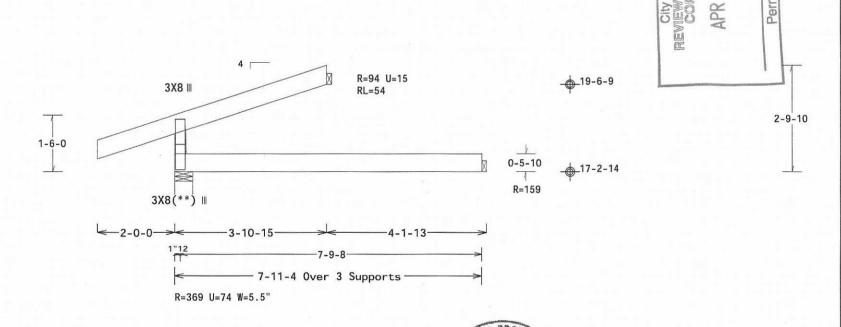
Unbalanced snow loads have not been considered.

(\*\*)1 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

110 mph wind, 19.06 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=4.2 psf, wind BC DL=6.0 psf.

Wind loads based on both MWFRS and C&C, Reactions based on MWFRS.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 2.00.





PLT TYP. Wave

\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING, REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LES STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WTCA (WOOD TRUSS COUNCIL OF MARICA, 6300 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED TIGHT CELLING.

Design Crit: IRC2009/TPI-2007(STD)

FT/RT=8%(0%)/4(1)

\*\*IMPORTANT\*\*FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. 1TW BUILDING COMPONENTS
GROUP, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN: ANY FAILURE TO BUILD THE TRUSS
IN CONFORMANCE WITH THE JOE FARRICATING, HANDLING, SHIPPING, INSTALLING BE BRACING OF TRUSSES,
DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS. (NATIONAL DESIGN SPEC, BY AFAPA) AND TPI. ALPINE
CONNECTOR PLATES ARE MADE OF 20/18/16GA (W.H/SS/K) ASTM A653 GRADE 40/60 (W. K/H,SS) GALV. STELL. APPLY
PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 100A-Z.
ANY INSPECTION OF PLATES FOLLOWED BY (F) SHALL BE PER ANNEX AS OF TPI1-200Z SEC.3. A SEC. AL ON THIS
DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL BEGINERING RESPONSIBILITY SOLLEY FOR THE TRUSS COMPONENT
DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING DESIGNER PER RESPONSIBILITY OF THE
BUILDING DESIGNER PER RANISTIPI 1 SEC. 2.

11/20/2012

TC LL 25.0 PSF REF R561-- 16460 TC DL 7.0 PSF DATE 11/20/12 10.0 PSF BC DL DRW CAUSR561 12325039 BC LL 0.0 PSF CA-ENG LVT/CWC 42.0 PSF TOT.LD. SEQN-496379 DUR.FAC. 1.15 FROM KTC SPACING 24.0" JREF- 1URC561\_Z12

OR/-/1/-/-/R/-

City of Portland

Permit Number

Top chord 1.5"x5.625" DF-L SS(g)
Bot chord 1.5"x5.625" DF-L SS(g)
Webs 2x4 DF-L Standard(g)

Connectors in green lumber (g) designed using NDS/TPI reduction factors.

Bottom chord checked for  $10.00~\mathrm{psf}$  non-concurrent bottom chord live load applied per IRC-09 section 301.5.

Calculated vertical deflection is 0.05" due to live load and 0.14" due to total load at X = 3-11-10.

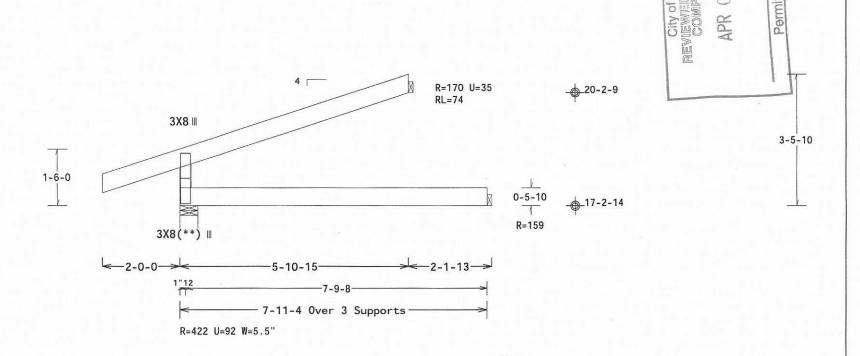
Unbalanced snow loads have not been considered.

(\*\*)1 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

110 mph wind, 19.39 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=4.2 psf, wind BC DL=6.0 psf.

Wind loads based on both MWFRS and C&C, Reactions based on MWFRS.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 2.00.



Trus-Way, Inc 360-750-1470 3901 NE 68th St., Vancouver WA

PLT TYP. Wave

ALPINE

ITW Building Components Group, Inc. Sacramento, CA 95828 \*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE. IN FABRICATION, HANDLING, SKIPPING, INSTALLING AND BRACING, REFER TO BEST (BUILDING COMPONENTS AFETY INTROMATION), PUBLISHED BY TPI) (TRUSS PATET HISTITUTE. 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WTCA (MODO TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE SOFTIETY OF THE STREET OF THE PROPERTY ATTACHED RIGHT OF THE STREET AND BOTTOM CHORD SHALL HAVE PROPERTY ATTACHED RIGHT OF THE STREET AND BOTTOM CHORD SHALL HAVE A PROPERTY ATTACHED RIGHT OF ELIGIBLE AND BOTTOM CHORD SHALL HAVE A PROPERTY ATTACHED RIGHT OF THE STREET AND BOTTOM CHORD SHALL HAVE A PROPERTY ATTACHED RIGHT OF THE STREET ATTACHED RIGHT OF THE

Design Crit: IRC2009/TPI-2007(STD)

FT/RT=8%(0%)/4(1)

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10.03. GASCACA TACKED PROFESS OF Y: 2

10.03. GASCACA TAC

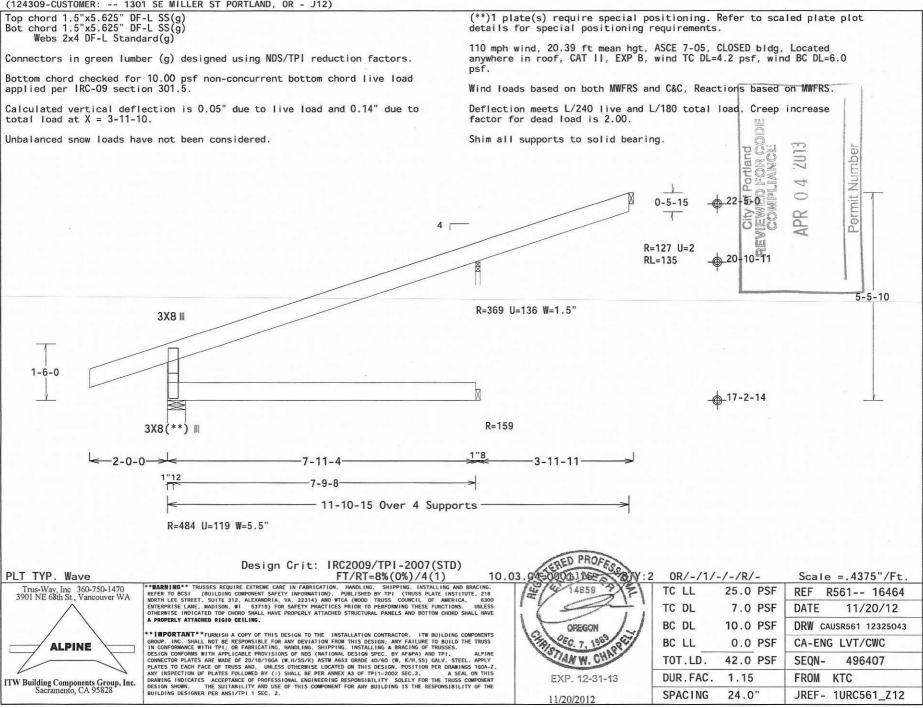
11/20/2012

OR/-/1/-/-/R/-Scale = .4375"/Ft. TC LL 25.0 PSF REF R561-- 16461 TC DL 7.0 PSF 11/20/12 DATE BC DL 10.0 PSF DRW CAUSR561 12325040 BC II 0.0 PSF CA-ENG LVT/CWC TOT.LD. 42.0 PSF SEQN-496388 DUR. FAC. 1.15 FROM KTC SPACING 24.0" JREF- 1URC561\_Z12

Top chord 1.5"x5.625" DF-L SS(g) Bot chord 1.5"x5.625" DF-L SS(g) (\*\*)1 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements. Webs 2x4 DF-L Standard(q) 110 mph wind, 19.72 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=4.2 psf, wind BC DL=6.0 Connectors in green lumber (q) designed using NDS/TPI reduction factors. psf. Bottom chord checked for 10.00 psf non-concurrent bottom chord live load applied per IRC-09 section 301.5. Wind loads based on both MWFRS and C&C, Reactions based on MWFRS. Calculated vertical deflection is 0.05" due to live load and 0.14" due to Deflection meets L/240 live and L/180 total load, Creep increase total load at X = 3-11-10. factor for dead load is 2.00. Portland D FOR CODE Unbalanced snow loads have not been considered. Permit Number d del APR 20-10-9 R=240 U=54 RL=93 3X8 III 4-1-10 1-6-0 0-5-10 17-2-14 3X8(\*\*) R=159 1"13 7-11-4 Over 3 Supports R=481 U=113 W=5.5" Design Crit: IRC2009/TPI-2007(STD) PLT TYP. Wave FT/RT=8%(0%)/4(1)10.03 OR/-/1/-/-/R/-Scale = .4375"/Ft. \*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING, REFER TO BCSI, GUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WTCA (MOOD TRUSS COUNCIL OF MARRICA, 6300 ENTERRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE, INDICATED TOP CORDO SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING. Trus-Way, Inc 360-750-1470 3901 NE 68th St., Vancouver WA TC LL 25.0 PSF REF R561-- 16462 TC DL 7.0 PSF DATE 11/20/12 BC DL 10.0 PSF DRW CAUSR561 12325041 \*\*IMPORTANT\*\*FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. 1TW BUILDING COMPONENTS GROUP. INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN COMPONENMENT HIT TET: OR FARRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NOS (NATIONAL DESIGN SPEC, BY AFAPA) AND TET. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W, H/SS/K) ASTM A653 GRADE 40/80 (W, K/H,SS) GALV. STEEL, APPLY PLATES TO EACH FACE OF TRUSS AND. UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI1-2002 SEC. 3. A SEAL ON THIS DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE OREGON BC LL 0.0 PSF CA-ENG LVT/CWC ALPINE TOT.LD. 42.0 PSF SEQN-496395 DUR.FAC. FROM KTC 1.15 ITW Building Components Group, Inc. Sacramento, CA 95828 EXP. 12-31-13 BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2. SPACING 24.0" JREF- 1URC561\_Z12

11/20/2012

Top chord 1.5"x5.625" DF-L SS(g) Bot chord 1.5"x5.625" DF-L SS(g) (\*\*)1 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements. Webs 2x4 DF-L Standard(g) 110 mph wind, 20.06 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=4.2 psf, wind BC DL=6.0 Connectors in green lumber (g) designed using NDS/TPI reduction factors. psf. Bottom chord checked for 10.00 psf non-concurrent bottom chord live load applied per IRC-09 section 301.5. Wind loads based on both MWFRS and C&C, Reactions based on MWFRS. Calculated vertical deflection is 0.05" due to live load and 0.14" due to Deflection meets L/240 live and L/180 total load. Creep increase total load at X = 3-11-10. factor for dead load is 2.00. ermit Number Portland FORCO Unbalanced snow loads have not been considered. Shim all supports to solid bearing City of 21-9-0 0-5-15 \_20-10-11 RL=114 R=305 U=110 W=1.5" 4-9-10 3X8 II 1-6-0 17-2-14 R=159 3X8(\*\*) III 9-10-15 Over 4 Supports R=484 U=117 W=5.5' 10.03.9450606 INSE Design Crit: IRC2009/TPI-2007(STD) PLT TYP. Wave FT/RT=8%(0%)/4(1)OR/-/1/-/-/R/-Scale = .4375"/Ft. \*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING.
REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218
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ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS
OTHERMISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE
A PROPERLY ATTACHED RIGID CELLING. Trus-Way, Inc 360-750-1470 3901 NE 68th St., Vancouver WA TC LL 25.0 PSF REF R561-- 16463 TC DL 7.0 PSF DATE 11/20/12 BC DL 10.0 PSF OREGON DRW CAUSR561 12325042 \*\*IMPORTANT\*\*FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BUILDING COMPONENTS GROUP, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN: ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THIS OF RABBIGATHING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC, BY AFAPA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/19/GAG (W, H/YB, CS) STAND 465 GRADE 40/66 (W, K/H, SS) GALV, STEEL, APPLY BC LL 0.0 PSF CA-ENG LVT/CWC ALPINE MAN W. CHI TOT.LD. 42.0 PSF SEQN-496402 PLATES TO EACH PAGE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 166A-Z.
ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX AS OF TP11-2002 SEC.3. A SALO NTHIS
DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT EXP. 12-31-13 DUR.FAC. 1.15 FROM KTC ITW Building Components Group, Inc. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE Sacramento, CA 95828 BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2. SPACING 24.0" JREF- 1URC561 Z12 11/20/2012



Top chord 1.5"x5.625" DF-L SS(g) Bot chord 1.5"x5.625" DF-L SS(g) Webs 2x4 DF-L Standard(g)

Connectors in green lumber (g) designed using NDS/TPI reduction factors.

Special loads

-----(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15) 65 plf at -2.00 to 65 plf at 1.91 20 plf at 0.00 to 20 plf at 6.70 TC- From

BC- From BC- 221.00 lb Conc. Load at 2.00

BC- 38.75 lb Conc. Load at 4.00, 6.00

Wind loads and reactions based on MWFRS.

110 mph wind, 19.97 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=4.2 psf, wind BC DL=6.0

Bottom chord checked for 10.00 psf non-concurrent bottom chord live load applied per IRC-09 section 301.5.

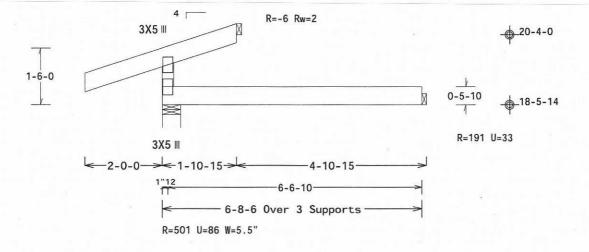
Calculated vertical deflection is 0.04" due to live load and 0.14" due to total load at X = 3-2-11.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 2.00.

Unbalanced snow loads have not been considered.

City of Portland
REVIEWED FOR CODI
COMPLIANCE Permit Number T APR

2-1-10



Design Crit: IRC2009/TPI-2007(STD) PLT TYP. Wave FT/RT=8%(0%)/4(1)

\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING.
REFER TO BCSI. (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218
NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300
ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE PUNCTIONS. UNLESS ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

\*\*IMPORTANT\* \*FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BUILDING COMPONENTS
GROUP, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS
IN CONFORMANCE WITH THE! OR FARBICATING, HANDLING, SHIPPING, INSTALLING & BRACKING OF TRUSSES.
DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NOS (NATIONAL DESIGN SPEC, BY AFFAP) AND TPI. ALPINE
CONNECTOR PLATES ARE MADE OF 20/18/16/AGG (M, H/ASX), ASTM AGSS GRADE 40/60 (M, K/H,SS) GALV. STEEL, APPLY
PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z.
ANY INSPECTION OF PLATES FOLLOWED BY (!) SHALL BE PER ANNEX A3 OF TPI1-2002 SEC.3. A SEAL ON THIS
DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

245 DECULNE OREGON EXP. 12-31-13

11/20/2012

OR/-/1/-/-/R/-Scale = .4375"/Ft. TC LL 25.0 PSF REF R561-- 16465 7.0 PSF TC DL DATE 11/20/12 BC DL 10.0 PSF DRW CAUSR561 12325044 0.0 PSF BC LL CA-ENG LVT/CWC TOT.LD. 42.0 PSF SEQN-637454 DUR.FAC. 1.15 FROM KTC SPACING 24.0" JREF- 1URC561\_Z12

ALPINE ITW Building Components Group, Inc. Sacramento, CA 95828

Trus-Way, Inc 360-750-1470 3901 NE 68th St., Vancouver WA

Connectors in green lumber (g) designed using NDS/TPI reduction factors.

Bottom chord checked for  $10.00~\mathrm{psf}$  non-concurrent bottom chord live load applied per IRC-09 section 301.5.

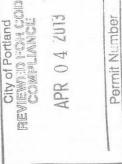
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 2.00.

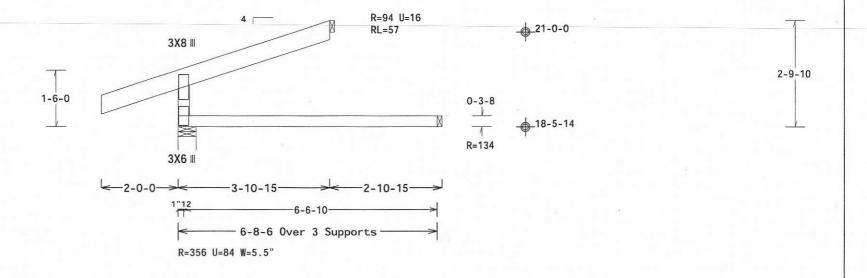
110 mph wind, 20.31 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=4.2 psf, wind BC DL=6.0 psf.

Wind loads based on both MWFRS and C&C, Reactions based on MWFRS.

Calculated vertical deflection is 0.10" due to live load and 0.29" due to total load at X = 3-5-11.

Unbalanced snow loads have not been considered.







Sacramento, CA 95828

PLT TYP. Wave

FT/RT=8%(0%)/4(1)

\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION. HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCS1 (BUILDING COMPONENT SAFETY INFORMATION). PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

Design Crit: IRC2009/TPI-2007(STD)

\*\*IMPORTANT\*\*FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BUILDING COMPONENTS
GROUP, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS
IN CONFORMANCE WITH THY IC OF FARRICATING, HANDLING, SHIPPING, INSTALLING & BABACING OF TRUSSES,
DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC, BY AFAPA) AND TPI.

ALPINE
CONNECTOR PLATES ARE MADE OF 20/18/16GA (M, M/SS/K) ASTM A653 GRADE 40/60 (M, KH,SS) GALV. STEEL, APPLY
PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z.
ANY INSPECTION OF PLATES FOLLOWED BY (I) SHALL BE PER ANNEX AS OF TPI1-2002 SEC.3. A SEAL ON THIS
DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLLEY FOR TRUSS COMPONENT
DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE
BUILDING DESIGNEE PER ANSITYPI 1 SEC. 2.

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14659	TC DL	7.0 PS
	BC DL	10.0 PS
OREGON 50. 7, 1985 947	BC LL	0.0 PS
GTIANW. CHAPT	TOT.LD.	42.0 PS
EXP. 12-31-13	DUR.FAC.	1.15
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11/20/2012

	TC LL	25.0 PSF	REF R561 16466
	TC DL	7.0 PSF	DATE 11/20/12
	BC DL	10.0 PSF	DRW CAUSR561 12325045
	BC LL	0.0 PSF	CA-ENG LVT/CWC
	TOT.LD.	42.0 PSF	SEQN- 637456
	DUR.FAC.	1.15	FROM KTC
	SPACING	24.0"	JREF- 1URC561_Z12
_			

Scale = .4375"/Ft.

Connectors in green lumber (g) designed using NDS/TPI reduction factors.

Bottom chord checked for  $10.00~\rm psf$  non-concurrent bottom chord live load applied per IRC-09 section 301.5.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 2.00.

110 mph wind, 20.64 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=4.2 psf, wind BC DL=6.0 psf.

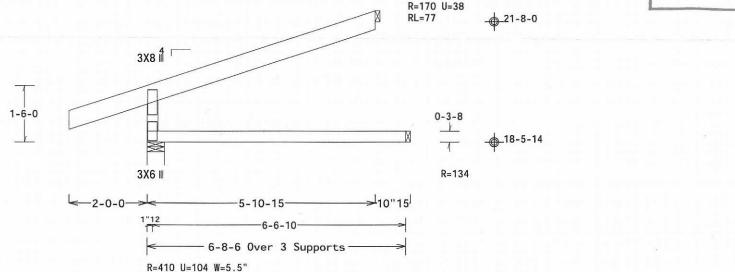
Wind loads based on both MWFRS and C&C, Reactions based on MWFRS.

Calculated vertical deflection is 0.10" due to live load and 0.29" due to total load at X = 3-5-11.

Unbalanced snow loads have not been considered.



3-5-10



PLT TYP. Wave

FT/RT=8%(0%)/4(1)

\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING,
REFER TO BCS1 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE (TRUSS PLATE INSTITUTE, 218
MORTH LEE STREET, SUITE 312. ALEXANDRIA, VA. 22314) AND WTCA (MODO TRUSS COUNCIL OF AMERICA, 6306
ENTERPRISE LAME, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE INTOITONS.
UNICONSTRUCTIONS OF THE PROPERTY ATTACHED RIGHT OF CHORD SHALL HAVE
A PROPERTY ATTACHED RIGHT OF CHILD CELLING.

Design Crit: IRC2009/TPI-2007(STD)

Trus-Way, Inc. 360-750-1470
3901 NE 68th St., Vancouver WA

ALPINE

ITW Building Components Group, Inc.
Sacramento, CA 95828

\*\*IMPORTANT\*\* FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BUILDING COMPONENTS GROUP, NICK SHALL NOT DE RESPONSIBLE FOR ANY COMPATION FROM THIS DESIGNS, ANY FAILURE OBJUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING. HANDLING, SHIPPING, INSTALLING & BRACH OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NOS (NATIONAL DESIGN SPEC, BY AFAPA) OND TI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W, W/SS/K) ASTM A6S3 GRADE 40/60 (W, K/H,SS) GALV. STEEL, APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 1604-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI1-2002 SEC. 3. A SEAL ON THIS DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSITYPI 1 SEC. 2.

10.03.98 BEAT 15 SC RTY:

11.00.2012

OR/-/1/-	-/-/R/-	Scale = .4375"/Ft.	
1,000,000, 1,000	25.0 PSF	REF R561 16467	-
TC DL	7.0 PSF	DATE 11/20/12	-
BC DL	10.0 PSF	DRW CAUSR561 12325046	-
BC LL	0.0 PSF	CA-ENG LVT/CWC	
TOT.LD.	42.0 PSF	SEQN- 637458	-
DUR.FAC.	1.15	FROM KTC	
SPACING	24.0"	JREF- 1URC561_Z12	

Top chord 1.5"x5.625" DF-L SS(g) Bot chord 2x4 DF-L #1&Bet.(g)

Webs 2x4 DF-L Standard(g)

Connectors in green lumber (g) designed using NDS/TPI reduction factors.

Bottom chord checked for  $10.00~\mathrm{psf}$  non-concurrent bottom chord live load applied per IRC-09 section 301.5.

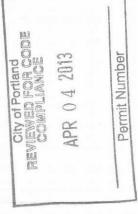
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 2.00.

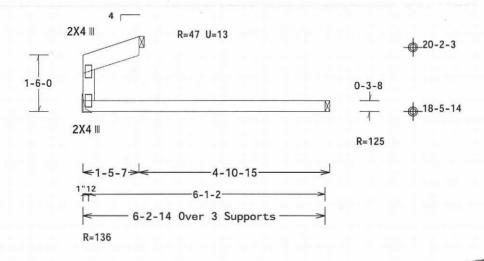
110 mph wind, 20.23 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=4.2 psf, wind BC DL=6.0 psf.

Wind loads based on both MWFRS and C&C, Reactions based on MWFRS.

Calculated vertical deflection is 0.07" due to live load and 0.22" due to total load at X = 3-2-15.

Unbalanced snow loads have not been considered.





1-11-13

Design Crit: IRC2009/TPI-2007(STD) FT/RT=8%(0%)/4(1)

\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING, REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERRISE LAME, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

ALPINE

ITW Building Components Group, Inc.
Sacramento, CA 95828

\*\*IMPORTANT\*\*FURNISH A CORY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. LITE TO BUILD INC COMPONENTS GROUP. INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGNS. ANY FAILURE BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NOS (NATIONAL DESIGN SPEC, BY AFAPA) AND TPI. A LPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W, W/NS/K) ASTM A6S3 GRADE 40/60 (W, K/H,SS) GALV, STEEL, APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 1604-Z, ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI1-2002 SEC. 3. A SEAL ON THIS DESIGNS AND ASSESSMENT OF THE TRUSS COMPONENT DESIGN SHOWN. THE SULTABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

10.03.04.060.0105.01 (: 2

11/20/2012

OR/-/1/-/-/R/-Scale = .4375"/Ft. TC LL 25.0 PSF REF R561-- 16468 TC DL 7.0 PSF DATE 11/20/12 BC DL 10.0 PSF DRW CAUSR561 12325047 BC LL 0.0 PSF CA-ENG LVT/CWC TOT.LD. 42.0 PSF SEQN-637447 DUR, FAC. 1.15 FROM KTC SPACING 24.0" JREF- 1URC561\_Z12

PLT TYP. Wave

Trus-Way, Inc 360-750-1470 3901 NE 68th St., Vancouver WA

Connectors in green lumber (g) designed using NDS/TPI reduction factors.

Bottom chord checked for 10.00 psf non-concurrent bottom chord live load applied per IRC-09 section 301.5.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 2.00.

110 mph wind, 20.57 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=4.2 psf, wind BC DL=6.0

Wind loads based on both MWFRS and C&C, Reactions based on MWFRS.

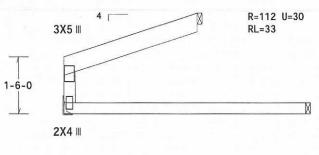
Calculated vertical deflection is 0.07" due to live load and 0.22" due to total load at X = 3-2-15.

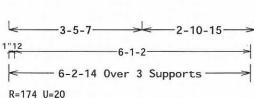
Unbalanced snow loads have not been considered-



Permit Numb

2-7-13





0-3-8 **18-5-14** 

20-10-3

R=125

Design Crit: IRC2009/TPI-2007(STD) FT/RT=8%(0%)/4(1)

OR/-/1/-/-/R/ 10.03

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10	SEC.	7.	198		4	
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EXP. 12-31-13

11/20/2012

4	UK/ -/ 1/ -	-/-/K/-	Scare = .43/5 /rt.
	TC LL	25.0 PSF	REF R561 16469
	TC DL	7.0 PSF	DATE 11/20/12
	BC DL	10.0 PSF	DRW CAUSR561 12325048
	BC LL	0.0 PSF	CA-ENG LVT/CWC
	TOT.LD.	42.0 PSF	SEQN- 637443
	DUR.FAC.	1.15	FROM KTC
	SPACING	24.0"	JREF- 1URC561_Z12
_			

PLT TYP. Wave

Trus-Way, Inc 360-750-1470 3901 NE 68th St., Vancouver WA ALPINE

ITW Building Components Group, Inc. Sacramento, CA 95828

\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING, REFER TO RESI (RUHLDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA. 22314) AND WTCA (MODD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO DEFFORMING THESE FUNCTION UNICES OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

\*\*1MPORTANT\*\*FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BUILDING COMPONENTS GROUP. INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

DESIGN COMPORISM WITH APPLICABLE PROVISIONS OF NOS (NATIONAL DESIGN SPEC, BY AFPAP) AND TPI. ALPINE COMNECTOR PLATES ARE MADE OF 20/18/18GA (W. K/XS/K) ASTM A653 GRADE 40/50 (W. K/H, SS) GALV. STEEL, APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI1-200Z SEC. 3. A SEAL ON THIS DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2. BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

Connectors in green lumber (q) designed using NDS/TPI reduction factors.

Bottom chord checked for 10.00 psf non-concurrent bottom chord live load applied per IRC-09 section 301.5.

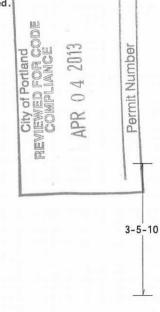
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 2.00.

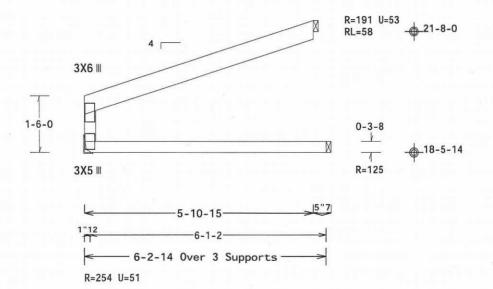
110 mph wind, 20.97 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=4.2 psf, wind BC DL=6.0

Wind loads based on both MWFRS and C&C. Reactions based on MWFRS.

Calculated vertical deflection is 0.07" due to live load and 0.22" due to total load at X = 3-2-15.

Unbalanced snow loads have not been considered





PLT TYP. Wave

Trus-Way, Inc 360-750-1470 3901 NE 68th St., Vancouver WA

ALPINE

FT/RT=8%(0%)/4(1)\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. \*\*WARNING\*\* INSUSSES REQUIRE EXTREME CARE IN PARKICATION, HANDLING, SHIPPING, INSTALLING AND BRACING, REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA. 22314) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA. 6300 ENTERPRISE LAME, MADISON, WI 53739) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED FIGHD CELLING.

Design Crit: IRC2009/TPI-2007(STD)

ITW Building Components Group, Inc. Sacramento, CA 95828

\*\*IMPORTANT\*\*FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BUILDING COMPONENTS GROUP, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN: ANY FAILURE TO BUILD THE TRUSS IN COMPONENCE WITH TOT; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACKING OF TRUSSES. IN COMPORIBANCE WITH 191; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

BESIGN COMPORISW WITH APPLICABLE PROVISIONS OF NOS (NATIONAL DESIGN SPEC, BY AFAPA) AND TPI.

CONNECTOR PLATES ARE MADE OF 20/18/16GA (W, I/Y.SS/K), ASTM A683 GRADE 40/60 (W, I/Y.H.SS) GALV. STEEL. APPLY

PLATES TO EACH FACE OF TRUSS AND. UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z.

ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI1-2002 SEC.3. A SEAL ON THIS

DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLLEY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

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11/20/2012

CO PROPE

	OR/-/1/-	-/-/R/-	Scale = .4375"/Ft.
	TC LL	25.0 PSF	REF R561 16470
	TC DL	7.0 PSF	DATE 11/20/12
	BC DL	10.0 PSF	DRW CAUSR561 12325049
	BC LL	0.0 PSF	CA-ENG LVT/CWC
	TOT.LD.	42.0 PSF	SEQN- 637439
	DUR.FAC.	1.15	FROM KTC
	SPACING	24.0"	JREF- 1URC561_Z12
-			

Connectors in green lumber (q) designed using NDS/TPI reduction factors.

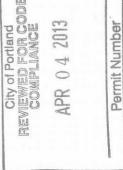
Bottom chord checked for 10.00 psf non-concurrent bottom chord live load applied per IRC-09 section 301.5.

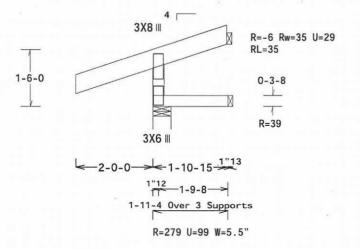
Unbalanced snow loads have not been considered.

110 mph wind, 18.72 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=4.2 psf, wind BC DL=6.0 psf.

Wind Loads based on both MWFRS and C&C. Reactions based on MWFRS.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 2.00.





17-2-14 2-1-10

Design Crit: IRC2009/TPI-2007(STD) FT/RT=8%(0%)/4(1)

\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING, REFER TO BOSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WITCH (MODO TRUSS COUNCIL OF MARRICA, 6300 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS, UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED RIGHT OF THE MARLES AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGHT OF THE MARLES AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGHT OF THE MARLES AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGHT OF THE MARLES AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGHT OF THE MARLES AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGHT OF THE MARLES AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGHT OF THE MARLES AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGHT OF THE MARLES AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGHT OF THE MARLES AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGHT OF THE MARLES AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGHT OF THE MARLES AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGHT OF THE MARLES AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGHT OF THE MARLES AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGHT OF THE MARLES AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGHT OF THE MARLES AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGHT OF THE MARLES AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGHT OF THE MARLES AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGHT OF THE MARLES AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGHT OF THE MARLES AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGHT OF THE MARLES AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGHT OF THE MARLES AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGHT OF THE MARLES AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGHT OF THE MARLES AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGHT OF THE MARLES AN

ITW Building Components Group, Inc. Sacramento, CA 95828

\*\*IMPORTANT\*\*FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BUILDING COMPONENTS GROUP. INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN: ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE I.O R FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACKING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NOS (NATIONAL DESIGN SPEC, BY AFFAPA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/19/16GA (W, H/SY, ASTM AGSS GRADE 40/50 (W, K/H,S) GALV. STEEL, APPLY PLATES TO EACH FACE OF TRUSS AND. UNLESS OTHERWISE LOCATED ON THIS DESIGN. POSITION PER DRAWINGS 160A-Z, ANY INSPECTION OF PLATES FOLLOWED BY (I) SHALL BE PER ANNEX AS OF TPI1-20/20 SEC.3. A SEALO NTHIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

	OF DOOD INCOME	
10.03	04-0906 166 30	Y:2 OR/-/1/-
IG. 18	E/9/14859 3X 7	TC LL
300 ESS AVE	1 5	TC DL
	OREGON	BC DL
NTS SS	(Fg) (EG. 7, 1967) 867	BC LL
INE LY A-Z.	MAN W. CHA	TOT.LD.
HIS ENT	EXP. 12-31-13	DUR.FAC.
THE	11/20/2012	SPACING

2	OR/-/1/-	-/-/R/-	Scale = .4375"/Ft.
T	TC LL	25.0 PSF	REF R561 16471
	TC DL	7.0 PSF	DATE 11/20/12
l	BC DL	10.0 PSF	DRW CAUSR561 12325050
	BC LL	0.0 PSF	CA-ENG LVT/CWC
1	TOT.LD.	42.0 PSF	SEQN- 496352
	DUR.FAC.	1.15	FROM KB
I	SPACING	24.0"	JREF- 1URC561_Z12

PLT TYP. Wave

Trus-Way, Inc 360-750-1470 3901 NE 68th St., Vancouver WA

ALPINE

Connectors in green lumber (g) designed using NDS/TPI reduction factors.

Bottom chord checked for 10.00 psf non-concurrent bottom chord live load applied per IRC-09 section 301.5.

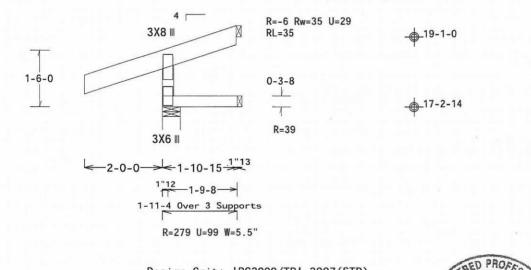
Unbalanced snow loads have not been considered.

110 mph wind, 18.72 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=4.2 psf, wind BC DL=6.0

Wind loads based on both MWFRS and C&C, Reactions based on MWFRS.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 2.00.

Fortland DEOR CODE Permit Number City of PC REVIEWED F



2-1-10

PLT TYP. Wave

Design Crit: IRC2009/TPI-2007(STD) FT/RT=8%(0%)/4(1)

10.0 \*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING.
REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218
NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300
ENTERPRISE LAME, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTION CHORD SHALL HAVE
OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERTY ATTACHED STRUCTURAL PARLES AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

Trus-Way, Inc 360-750-1470 3901 NE 68th St., Vancouver WA ALPINE ITW Building Components Group, Inc. Sacramento, CA 95828

\*\*IMPORTANT\*\*FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BUILDING COMPONENTS GROUP. INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THIS OR FABRICATHING, HAMDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NOS (MATIONAL DESIGN SPEC, BY AFRA)A AND TPI. A LPINE CONNECTOR PLATES ARE MADE OF ZOTIANTICAGE (M. 147.55/K) ASTM AGES GRADE 40760 (M. K/H.SS), GALV. STEEL. APPLY LOWMED TOR THATES MEE MANUE OF ZO/TS/TSGA (W, H/T/35/R) ASTIM ABS3 GRADE 40/F60 (W, K/H,SS) GALV. STEEL. APPLY
PLATES TO EACH FACE OF TRUSS AND. UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z.
ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX AS OF TP11-2002 SEG.3. A SEAL ON THIS
DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT
DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE
BUILDING DESIGNER PER ANS/T/PI 1 SEC. 2.

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1	8	C.7.	CHAP	<b>&gt;</b> /
	EX	P. 12	-31-13	3

11/20/2012

OR/-/1/	-/-/R/-	Scale = .4375"/Ft.
TC LL	25.0 PSF	REF R561 16472
TC DL	7.0 PSF	DATE 11/20/12
BC DL	10.0 PSF	DRW causr561 12325051
BC LL	0.0 PSF	CA-ENG LVT/CWC
TOT.LD.	42.0 PSF	SEQN- 637425
DUR.FAC.	1.15	FROM KTC
SPACING	24.0"	JREF- 1URC561_Z12

Connectors in green lumber (g) designed using NDS/TPI reduction factors.

Bottom chord checked for 10.00 psf non-concurrent bottom chord live load applied per IRC-09 section 301.5.

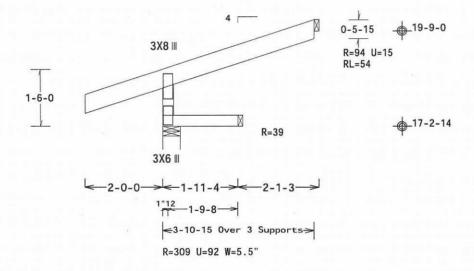
Unbalanced snow loads have not been considered.

110 mph wind, 19.06 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=4.2 psf, wind BC DL=6.0 psf.

Wind loads based on both MWFRS and C&C, Reactions based on MWFRS.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 2.00.





2-9-10

PLT TYP. Wave

Design Crit: IRC2009/TPI-2007(STD) FT/RT=8%(0%)/4(1)

\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION. HANDLING, SHIPPING, INSTALLING AND BRACING, REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LAME, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

Trus-Way, Inc. 360-750-1470
3901 NE 68th St., Vancouver WA

ALPINE

ITW Building Components Group, Inc.
Sacramento, CA 95828

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10.03	B. SANGED PROFES OT	Y:2 OR/-/
IG. 18	4859 4	TC LL
300 ESS AVE	210	TC DL
		BC DL
NTS SS	OREGON OF ORES	BC LL
INE LY A-Z,	STANSOCHAE	TOT.LD
HIS ENT	EXP. 12-31-13	DUR.FAC
THE	11/20/2012	SPACINO

1/-/-/R/-Scale = .4375"/Ft. 25.0 PSF REF R561-- 16473 7.0 PSF DATE 11/20/12 10.0 PSF DRW CAUSR561 12325052 0.0 PSF CA-ENG LVT/CWC 42.0 PSF SEQN-496355 FROM KB 1.15 24.0" JREF- 1URC561\_Z12 (124309-CUSTOMER: -- 1301 SE MILLER ST PORTLAND, OR - SJ04)

Top chord 1.5"x5.625" DF-L SS(g)
Bot chord 2x4 DF-L #1&Bet.(g)
Webs 2x4 DF-L Standard(g)

Connectors in green lumber (g) designed using NDS/TPI reduction factors.

Bottom chord checked for  $10.00~\mathrm{psf}$  non-concurrent bottom chord live load applied per IRC-09 section 301.5.

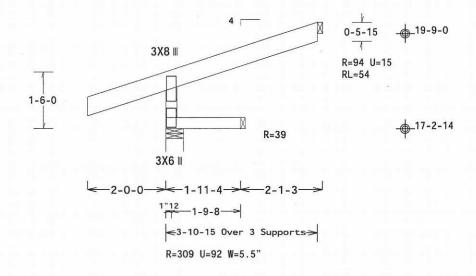
Unbalanced snow loads have not been considered.

110 mph wind, 19.06 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=4.2 psf, wind BC DL=6.0 psf.

Wind loads based on both MWFRS and C&C, Reactions based on MWFRS.

Deflection meets L/240 live and L/180 total load Creep increase factor for dead load is 2.00.





2-9-10

PLT TYP. Wave

Design Crit: IRC2009/TPI-2007(STD) FT/RT=8%(0%)/4(1)

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REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218
NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WTCA (WOOD TRUSS COUNCIL O AMERICA, 6300
ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS
OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PAWELS AND BOTTOM CHORD SHALL HAVE
A PROPERLY ATTACHED RIGID CELLING.

Trus-Way, Inc 360-750-1470
3901 NE 68th St., Vancouver WA

ALPINE

ITW Building Components Group, Inc.
Sacramento, CA 95828

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DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC, BY AFAPA) AND TFI. A LPINE CONNECTOR PLATES ARE MADO FO 20/10/16GA (W, H/SX), ASTAM AGS GRADE 40/50 (W, K/H,SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND. UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX AS OF TPI1-2002 SEC. 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABLITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNS PER ANSI/TPI 1 SEC. 2.

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2-31-13
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11/20/2012

ED PROP

,	OR/-/1/-	-/-/R/-	Scale = .4375"/Ft.
	TC LL	25.0 PSF	REF R561 16474
	TC DL	7.0 PSF	DATE 11/20/12
	BC DL	10.0 PSF	DRW causr561 12325053
	BC LL	0.0 PSF	CA-ENG LVT/CWC
	TOT.LD.	42.0 PSF	SEQN- 637427
	DUR.FAC.	1.15	FROM KTC
	SPACING	24.0"	JREF- 1URC561_Z12

Connectors in green lumber (g) designed using NDS/TPI reduction factors.

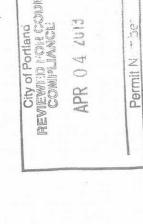
Bottom chord checked for  $10.00~\mathrm{psf}$  non-concurrent bottom chord live load applied per IRC-09 section 301.5.

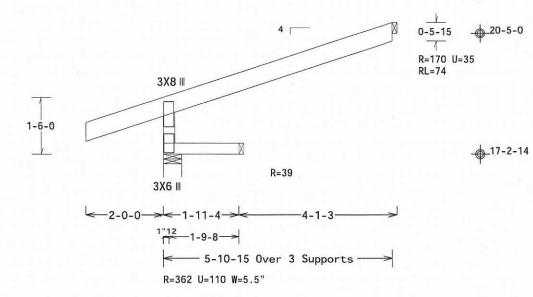
Unbalanced snow loads have not been considered.

110 mph wind, 19.39 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=4.2 psf, wind BC DL=6.0 psf.

Wind loads based on both MWFRS and C&C, Reactions based on MWFRS.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 2.00.





PLT TYP. Wave

\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING.

REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218

NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300

ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE

A PROPERLY ATTACHED RIGHO CELIMO.

Design Crit: IRC2009/TPI-2007(STD)

ALPINE

ITW Building Components Group, Inc.
Sacramento, CA 95828

Trus-Way, Inc 360-750-1470 3901 NE 68th St., Vancouver WA

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94 00 01 16 00 OTY	2 OR/-/1/-/
14659	TC LL 2
	TC DL
OREGON	BC DL 1
SE 7, 1989 QU	BC LL
GYANW. CHAP	TOT.LD. 4
EXP. 12-31-13	DUR.FAC.
11/20/2012	SPACING 2

TO BROWN

OR/-/1/-	-/-/R/-	Scale = .4375"/Ft.
TC LL	25.0 PSF	REF R561 16475
TC DL	7.0 PSF	DATE 11/20/12
BC DL	10.0 PSF	DRW CAUSR561 12325054
BC LL	0.0 PSF	CA-ENG LVT/CWC
TOT.LD.	42.0 PSF	SEQN- 496358
DUR.FAC.	1.15	FROM KB
SPACING	24.0"	JREF- 1URC561_Z12

Connectors in green lumber (g) designed using NDS/TPI reduction factors.

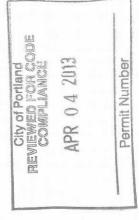
Bottom chord checked for 10.00 psf non-concurrent bottom chord live load applied per IRC-09 section 301.5.

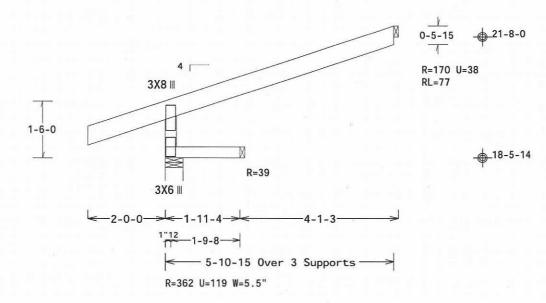
Unbalanced snow loads have not been considered.

110 mph wind, 20.64 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=4.2 psf, wind BC DL=6.0 psf.

Wind loads based on both MWFRS and C&C, Reactions based on MWFRS.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 2.00.





Design Crit: IRC2009/TPI-2007(STD)
PLT TYP. Wave FT/RT=8%(0%)/4(1)

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GROUP. INC. SMALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS
IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES,
DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NOS (NATIONAL DESIGN SPEC, BY AFAPA) AND TPI.

ALPINE
CONNECTOR PLATES ARE MADE OF 20/18/16GA (W, M/SS/K) ASTM A653 GRADE 40/50 (W, K/H, SS) GALV. STEEL, APPLY
PLATES TO EACH FACE OF TRUSS AND. UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 100A-2.

ANY INSPECTION OF PLATES FOLLOWED BY (I) SHALL BE PER ANNEX A3 OF TPI1-2002 SEC.3. A SEAL ON THIS
DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT
DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE
BUILDING DESIGNER PER RASI/TPI 1 SEC. 2.

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11/20/2012

	OR/-/1/-	-/-/R/-	Scale = $.4375$ "/Ft.
	TC LL	25.0 PSF	REF R561 16476
	TC DL	7.0 PSF	DATE 11/20/12
	BC DL	10.0 PSF	DRW CAUSR561 12325055
	BC LL	0.0 PSF	CA-ENG LVT/CWC
	TOT.LD.	42.0 PSF	SEQN- 637429
	DUR.FAC.	1.15	FROM KTC
	SPACING	24.0"	JREF- 1URC561_Z12
_			

ALPINE

Trus-Way, Inc 360-750-1470 3901 NE 68th St., Vancouver WA

ITW Building Components Group, Inc. Sacramento, CA 95828

4

Connectors in green lumber (g) designed using NDS/TPI reduction factors.

Trusses to be spaced at 0.0" OC maximum.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 2.00.

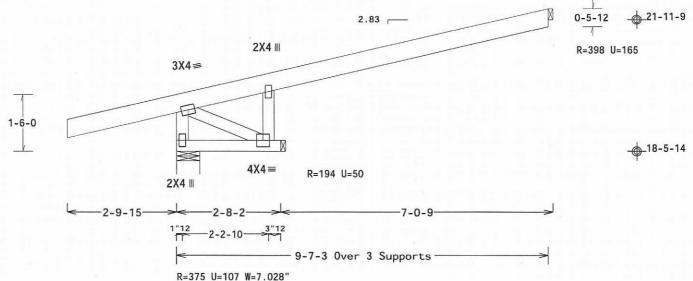
110 mph wind, 20.79 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=4.2 psf, wind BC DL=6.0

Wind loads and reactions based on MWFRS.

Hipjack supports 6-9-8 setback jacks with no webs.

Shim all supports to solid bearing.





PLT TYP. Wave

FT/RT=8%(0%)/4(1)\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING REFER TO BCSI (BULDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE (TRUST PLATE INSTITUTE, 218
NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300
ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PAPACTICES PRIOR TO PERFORMING THESE FUNCTIONS.
OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE

Design Crit: IRC2009/TPI-2007(STD)

Trus-Way, Inc 360-750-1470 3901 NE 68th St., Vancouver WA ALPINE ITW Building Components Group, Inc. Sacramento, CA 95828

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DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NOS (NATIONAL DESIGN SPEC, BY AFAPPA AND TPI. ALPING CONNECTOR PLATES ARE MADE OF 20/18/19/64G (W, H/SX), ASTM AGSS GRADE 40/60 (W, K/H.SS) GALV. STEEL, APPLY PLATES TO EACH FACE OF TRUSS AND. UNLESS OTHERWISE LOCATED ON THIS DESIGN. POSITION PER DRAWNINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX AS OF TPI1-20/2 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

10.03 REG EXP, 12-31-13 11/20/2012

4375"/Ft.
16478
1/20/12
61 12325058
T/CWC
37434
C561_Z12
-

Connectors in green lumber (g) designed using NDS/TPI reduction factors.

Trusses to be spaced at 0.0" OC maximum.

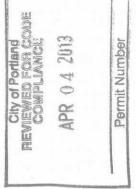
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 2.00.

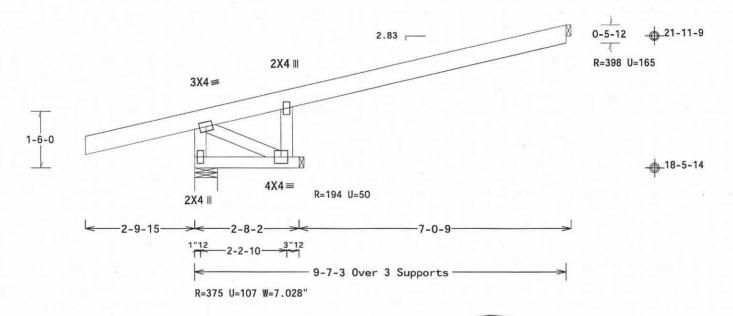
110 mph wind, 20.79 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=4.2 psf, wind BC DL=6.0

Wind loads and reactions based on MWFRS.

Hipjack supports 6-9-8 setback jacks with no webs.

Shim all supports to solid bearing.





PLT TYP. Wave

Trus-Way, Inc 360-750-1470 3901 NE 68th St., Vancouver WA

ALPINE

Design Crit: IRC2009/TPI-2007(STD) FT/RT=8%(0%)/4(1)

\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING, REFER TO BOSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WITCH (MODO TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CELLING.

ITW Building Components Group, Inc. Sacramento, CA 95828

\*\*IMPORTANT\*\*FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. 1TW BUILDING COMPONENTS GROUP, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE PICE ARBICATING, HANDLING, SHIPPING, INSTALLING & BRACHING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NOS (NATIONAL DESIGN SPEC, BY AFRAPA) AND THI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W. M/SS/K) ASTM A653 GRADE 40/60 (W. K/H.SS) GALV. STEEL, APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI1-2002 SEC. 3. A SEAL ON THIS DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING 1STHE RESPONSIBILITY OF THE BUILDING DESIGNEF PER BANKLY[P] 1 SEC. 2. BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

10.03.04 060 G WE **OREGON** EXP. 12-31-13

11/20/2012

!	OR/-/1/-	-/-/R/-	Scale = .4375"/Ft.
	TC LL	25.0 PSF	REF R561 16479
	TC DL	7.0 PSF	DATE 11/20/12
	BC DL	10.0 PSF	DRW CAUSR561 12325059
	BC LL	0.0 PSF	CA-ENG LVT/CWC
	TOT.LD.	42.0 PSF	SEQN- 637434
	DUR.FAC.	1.15	FROM KTC
	LOADING S	SEE ABOVE	JREF- 1URC561_Z12

Connectors in green lumber (g) designed using NDS/TPI reduction factors.

Trusses to be spaced at 0.0" OC maximum.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 2.00.

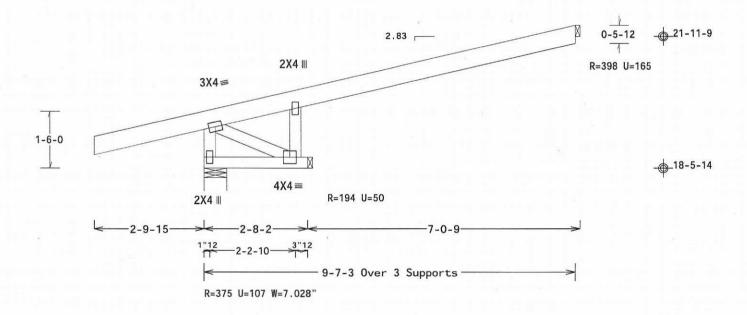
110 mph wind, 20.79 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=4.2 psf, wind BC DL=6.0 psf.

Wind loads and reactions based on MWFRS.

Hipjack supports 6-9-8 setback jacks with no webs.

Shim all supports to solid bearing.

City of Portland
REVIEWED FOR CODE
COMPLIANCE
APR 0 4 2013
Permit Number



PLT TYP. Wave

FT/RT=8%(0%)/4(1)

\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING,
REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE (TRUSS PLATE INSTITUTE, 218
NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA. 22314) AND WICA (WOOD TRUSS COUNCIL OF AMERICA, 6306
ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE ONTOTIONS. UNICS
OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE
A PROPERLY ATTACHED RIOLD CELLING.

Design Crit: IRC2009/TPI-2007(STD)

Trus-Way, Inc. 360-750-1470
3901 NE 68th St., Vancouver WA

ALPINE

ITW Building Components Group, Inc.
Sacramento, CA 95828

\*\*IMPORTANT \*\*FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BUILDING COMPONENTS
GROUP, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN: ANY FAILURE TO BUILD THE TRUSS
IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.
DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPCC, DY AFBPA) AND TPI.

ALPINE
CONNECTION PLATES ARE MADE OF 20/18/16GA (W, M/SS/K) ASTM A6S3 GRADE 40/60 (W, K/M, SS) GALV. STEEL. APPLY
PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWNINGS 160A-Z.
ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI1-20Z SEC.3. A SEAL ON THIS
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DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE
BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

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OR/-/1/-/-/R/-	Scale = .4375"/Ft.
TC LL 25.0 PSF	REF R561 16480
TC DL , 7.0 PSF	DATE 11/20/12
BC DL 10.0 PSF	DRW CAUSR561 12325060
BC LL 0.0 PSF	CA-ENG LVT/CWC
TOT.LD. 42.0 PSF	SEQN- 637434
DUR.FAC. 1.15	FROM KTC
LOADING SEE ABOVE	JREF- 1URC561_Z12

四周

Permit Number

Wind loads and reactions based on MWFRS with additional C&C member design.

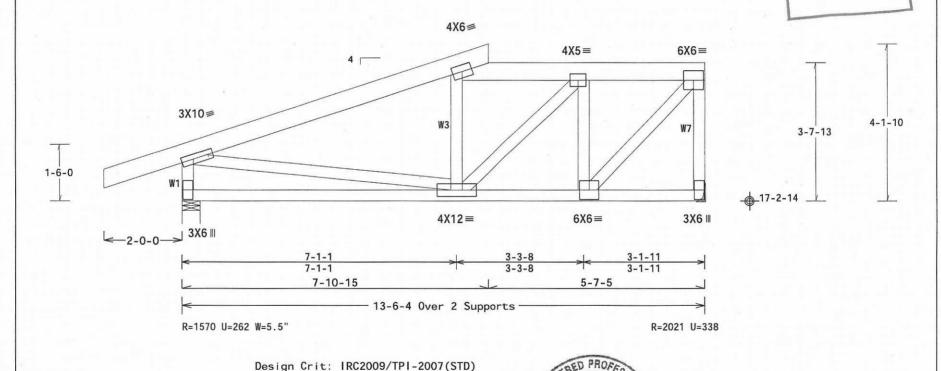
110 mph wind, 19.72 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=4.2 psf, wind BC DL=6.0 psf.

Right end vertical not exposed to wind pressure.

Bottom chord checked for 10.00 psf non-concurrent bottom chord live load applied per IRC-09 section 301.5.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 2.00.

In lieu of structural panels use purlins to brace all flat C @24"



PLT TYP. Wave

\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCS1 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPJ (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WITCA (MODOD TRUSS COUNCIL DAMERICA, 6300 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE, INDICATED 10P CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

FT/RT=8%(0%)/4(1)

\*\*IMPORTANT\*\*FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BUILDING COMPONENTS
GROUP, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS
IN CONFORMANCE WITH THIS; OR FARGICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.
DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC, BY AFAPA) AND TPI. ALPINE
CONNECTOR PLATES ARE MADE OF 20/18/16GA (W. HAVSS/K) ASTM MASS GRADE 40/50 (W. K/TA, SOLLY, STREL, APPLY
PLATES TO EACH FACE OF TRUSS AND. UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z,
ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI1-200Z SEC.3. A SEAL ON THIS
DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT
DESIGN SHOWN. THE SUITABLITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE
BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

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11/20/2012

010/ / 1/	/ / / //	July - 143/3 /1 C.
TC LL	25.0 PSF	REF R561 16481
TC DL	7.0 PSF	DATE 11/20/12
BC DL	10.0 PSF	DRW CAUSR561 12325101
BC LL	0.0 PSF	CA-ENG LVT/CWC
TOT.LD.	42.0 PSF	SEQN- 17299 REV
DUR.FAC.	1.15	FROM KTC
SPACING	24.0"	JREF- 1URC561_Z12

Scale = 4375"/Ft

OR/-/1/-/-/R/-

Trus-Way, Inc 360-750-1470 3901 NE 68th St., Vancouver WA

ALPINE

ITW Building Components Group, Inc. Sacramento, CA 95828

Connectors in green lumber (g) designed using NDS/TPI reduction factors.

Bottom chord checked for  $10.00~\mathrm{psf}$  non-concurrent bottom chord live load applied per IRC-09 section 301.5.

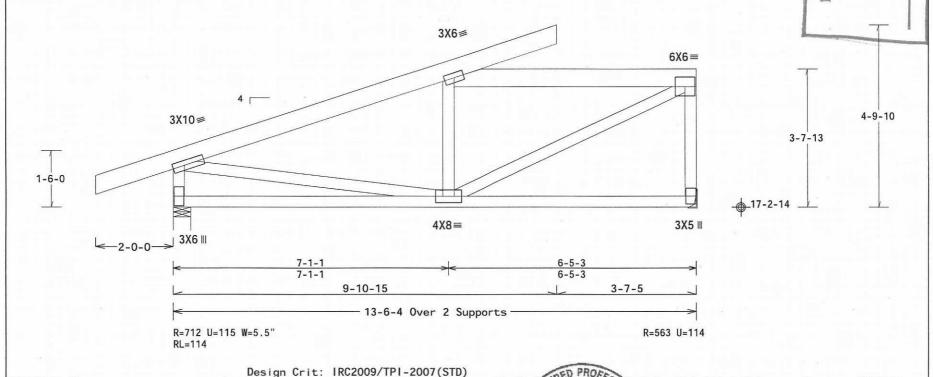
In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

110 mph wind, 20.06 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=4.2 psf, wind BC DL=6.0 psf.

Wind loads based on both MWFRS and C&C, reactions based on MWFRS.

Right end vertical not exposed to wind pressure.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 2.00.



10.03

PLT TYP. Wave

FT/RT=8%(0%)/4(1)

\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERRISE LAME, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

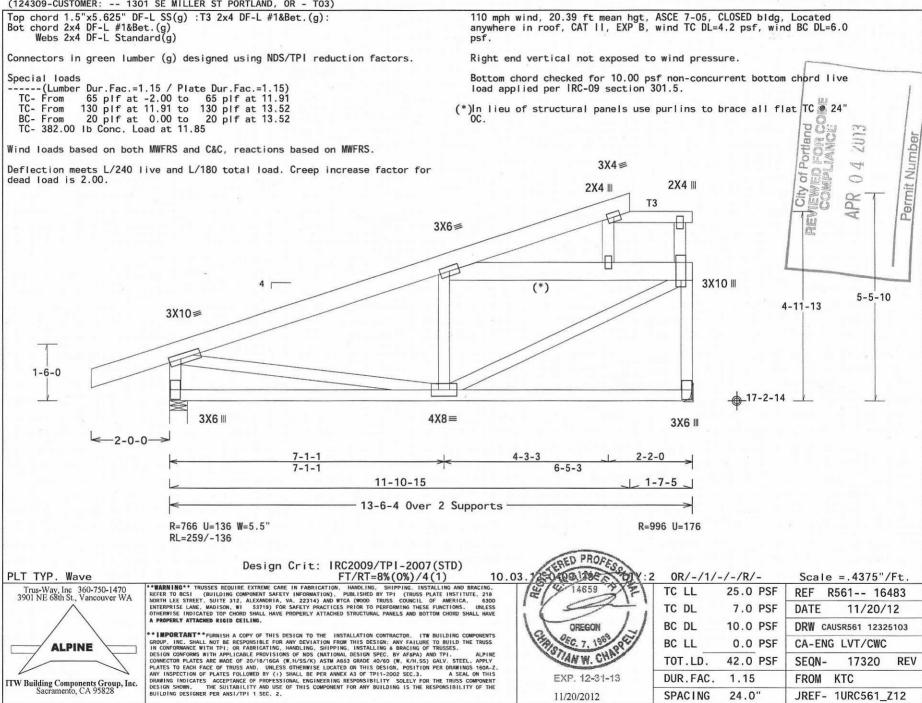
ALPINE
ITW Building Components Group, Inc.
Sacramento. CA 95828

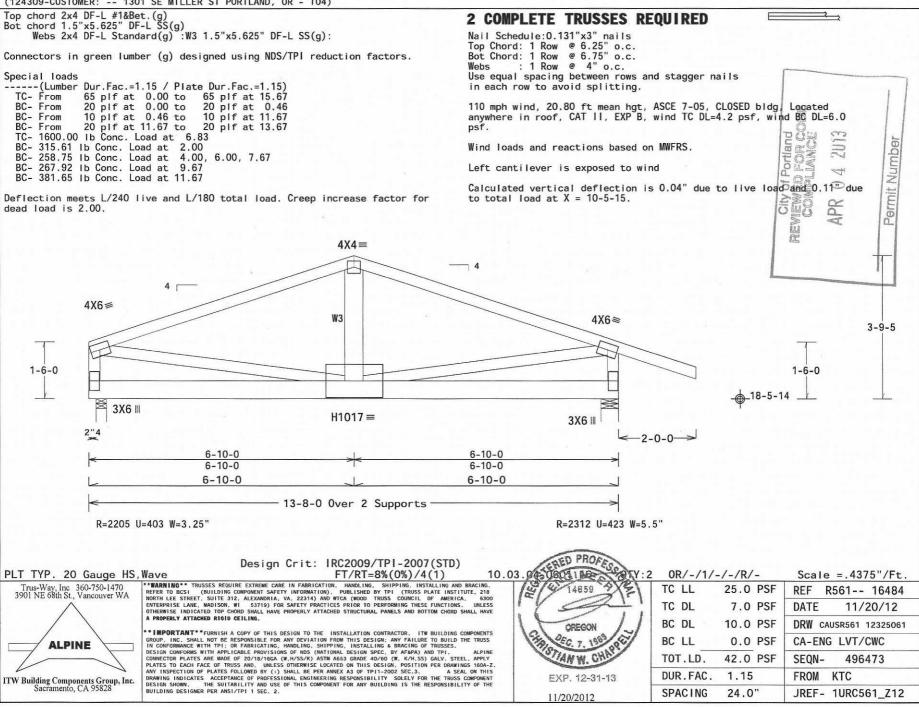
Trus-Way, Inc 360-750-1470 3901 NE 68th St., Vancouver WA

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DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC, BY AFAPA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16/AGG (W, H/SXX), ASTM AGSS GRADE 40/50 (W, K/H,SS) GALV. STEEL, APPLICABLE TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN. POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX AS OF TPI1-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SYMONN. THE SUITABLITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNS PER ANSI/TPI 1 SEC. 2.

. 72 00 9 7 9 0 QTY : 2	OR/-/1/	-/-/R/-	Scale = .4375"/Ft.
4659 4	TC LL	25.0 PSF	REF R561 16482
4/ 2211	TC DL	7.0 PSF	DATE 11/20/12
OREGON	BC DL	10.0 PSF	DRW CAUSR561 12325102
19 DEC + 1987 ET	BC LL	0.0 PSF	CA-ENG LVT/CWC
OTAN W. CHRP	TOT.LD.	42.0 PSF	SEQN- 17315 REV
EXP. 12-31-13	DUR.FAC.	1.15	FROM KTC
11/20/2012	SPACING	24.0"	JREF- 1URC561_Z12

- 2





Numbe

Permit

Top chord 2x4 DF-L #1&Bet.(g) Bot chord 1.5"x5.625" DF-L SS(g) Webs 2x4 DF-L Standard(g) :W2, W4, W10, W12 2x4 DF-L #1&Bet.(g):

Connectors in green lumber (g) designed using NDS/TPI reduction factors.

Special loads

-----(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15) 32 plf at 0.00 to 32 plf at 12.21 TC- From 10 plf at 0.00 to 10 plf at 12.21 BC- From

TC- 278.54 lb Conc. Load at 0.99 TC- 308.00 lb Conc. Load at 2.99 TC- 363.00 lb Conc. Load at 4.99 TC- 2205.00 lb Conc. Load at 5.83 BC- 2021.00 lb Conc. Load at 8.00 BC- 563.00 lb Conc. Load at 10.00 BC- 996.00 lb Conc. Load at 12.00

Max JT VERT DEFL: LL: 0.19" DL: 0.27" recommended camber 1/2"

The TC of this truss shall be braced with attached spans at 24" OC in lieu of structural sheathing.

### 2 COMPLETE TRUSSES REQUIRED

Nail Schedule: 0.131"x3" nails Top Chord: 1 Row @ 3.50" o.c. Bot Chord: 1 Row @ 3.25" o.c. : 1 Row @ 4" o.c.

Use equal spacing between rows and stagger nails in each row to avoid splitting.

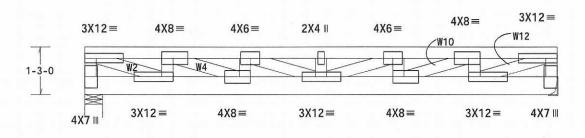
110 mph wind, 18.49 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=4.2 psf, wind BC DL=6.0

Wind loads and reactions based on MWFRS with additional C&C member design.

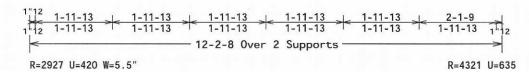
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 2.00.

Unbalanced snow loads have not been considered.

Truss must be installed as shown with top chord up.







PLT TYP. Wave

Trus-Way, Inc 360-750-1470 3901 NE 68th St., Vancouver WA

ALPINE

FT/RT=8%(0%)/4(1)\*WARNING\* \* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE (TRUSP PLATE INSTITUTE, 218
NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA. 22314) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300
ENTERPRISE LAME, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE STREET, SOUTH STATEMENT OF THE PROPERTY PRACTICES PRIOR TO PERFORMING THESE STREET, SOUTH OF THE PROPERTY PRACTICES PRIOR TO PERFORMING THESE STREET, SOUTH OF THE PROPERTY PRACTICES PRIOR TO PERFORMING THESE STREET, SOUTH OF THE PROPERTY PRACTICES PRIOR TO PERFORMING THESE STREET, SOUTH OF THE PROPERTY PRACTICES PRIOR TO PERFORMING THESE STREET, SOUTH OF THE PROPERTY PRACTICES PRIOR TO PERFORMING THESE STREET, SOUTH OF THE PROPERTY PROPERTY PRACTICES PRIOR TO PERFORM THE PROPERTY PR A PROPERLY ATTACHED RIGID CEILING.

Design Crit: IRC2009/TPI-2007(STD)

ITW Building Components Group, Inc. Sacramento, CA 95828

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EXP. 12-31-13	DUR.FAC.	16
11/20/2012	SPACING	1

SED PROSE

10.03

2	OR/-/1/-/-/R/-		Scale = .4375"/Ft.
	TC LL	25.0 PSF	REF R561 16485
	TC DL	7.0 PSF	DATE 11/20/12
	BC DL	10.0 PSF	DRW CAUSR561 12325106
	BC LL	0.0 PSF	CA-ENG LVT/CWC
	TOT.LD.	42.0 PSF	SEQN- 17326 REV
Ī	DUR.FAC.	1.15	FROM KTC
	SPACING	24.0"	JREF- 1URC561_Z12

REVIEWE

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Connectors in green lumber (q) designed using NDS/TPI reduction factors.

(a) 1x4 #3 HEM-FIR or better continuous lateral bracing to be equally spaced. Attach with (2) 8d Box or Gun nails (0.113"x2.5", min.). Bracing material to be supplied and attached at both ends to a suitable support by erection contractor.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 2.00.

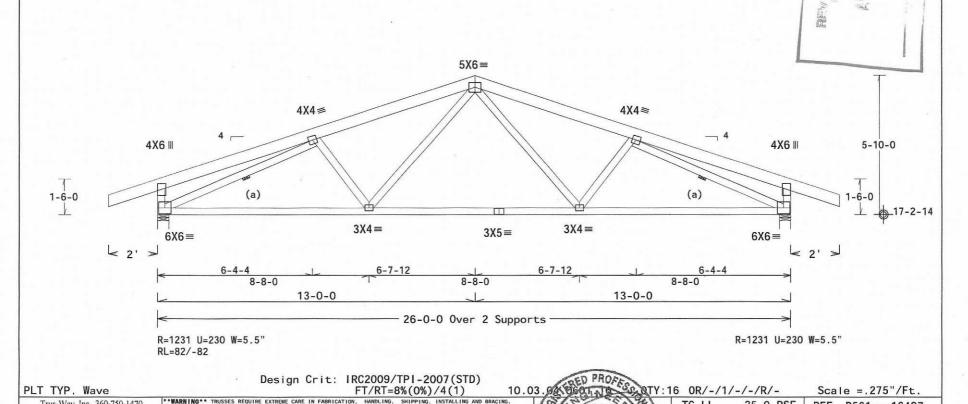
110 mph wind, 20.57 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=4.2 psf, wind BC DL=6.0

Wind loads based on both MWFRS and C&C, Reactions based on MWFRS.

Bottom chord checked for 10.00 psf non-concurrent bottom chord live load applied per IRC-09 section 301.5.

Calculated vertical deflection is 0.13" due to live load and 0.38" due to total load at X = 3-11-9.

Truss designed for unbalanced snow load based on Pg=25.00 psf, Ct=1.10, Ce=1.00, CAT II & Pf=19.25 psf.



PLT TYP. Wave

FT/RT=8%(0%)/4(1)\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING, REFER TO BOSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312. ALEXANDRIA, VA. 22314) AND WTCA (MODO TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LAME, MADISON, WI S3719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

Design Crit: IRC2009/TPI-2007(STD)

Trus-Way, Inc 360-750-1470 3901 NE 68th St., Vancouver WA ALPINE ITW Building Components Group, Inc. Sacramento, CA 95828

\*IMPORTANT\*\*FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BUILDING COMPONENTS ""IMPORTANT" "FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BUILDING COMPONENTS GROUP, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN, ANY FAILURE BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FARRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NOS (NATIONAL DESIGN SPEC, BY AFAPA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W. M/NSS/K) ASTM A653 GRADE 40/60 (W. K/N,SS) GALU. STEEL APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DEARWINGS 16GA-Z, ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI1-2002 SEC, 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE DESIGN SHOWN. THE SUITABILITY AND USE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

TY:16 OR/-/1/-/-/R/-Scale = .275"/Ft. TC LL 25.0 PSF REF R561-- 16487 TC DL 7.0 PSF DATE 11/20/12 BC DL 10.0 PSF DRW CAUSR561 12325056 BC LL 0.0 PSF CA-ENG LVT/CWC 42.0 PSF TOT.LD. SEON-637465 DUR.FAC. 1.15 FROM KTC EXP. 12-31-13 SPACING 24.0" JREF- 1URC561\_Z12 11/20/2012

\*

Connectors in green lumber (g) designed using NDS/TPI reduction factors.

Bottom chord checked for  $10.00~\rm psf$  non-concurrent bottom chord live load applied per IRC-09 section 301.5.

Truss designed for unbalanced snow load based on Pg=25.00 psf, Ct=1.10, Ce=1.00, CAT II & Pf=19.25 psf.

Truss spaced at 24.0" OC designed to support 1-0-0 top chord outlookers. Cladding load shall not exceed 3 PSF. Top chord must not be cut or notched.

110 mph wind, 20.57 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=4.2 psf, wind BC DL=6.0 psf.

Wind loads based on both MWFRS and C&C, Reactions based on MWFRS.

See DWGS A11030050109 & GBLLETIN0109 for more requirements.

Fasten rated sheathing to one face of this frame

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 2.00.

Portland Permit ō 4X4= REW 4X6 III 4X6 III 5-10-0 1-6-0 17-2-14 3X5 III 3X5 III 3X5≡ < 2' > 13-0-0 13-0-0 26-0-0 Over Continuous Support R=110 PLF U=18 PLF W=26-0-0

Note: All Plates Are 2X4 Except As Shown.

RL=3/-3 PLF

Design Crit: IRC2009/TPI-2007(STD) FT/RT=8%(0%)/4(1)

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REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218
NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA. 22314) AND WITCA (WOOD TRUSS COUNCIL OF AMERICA, 630
ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS
OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE
A PROPERLY ATTACHED RIGID CEILING.

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GROUP. INC. SMALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN: ANY FAILURE TO BUILD THE TRUSS
IN CONFORMANCE WITH THE I, OR FARRICATING, HANDLING, SHIPPING, INSTALLING & BRACHING OF TRUSSES.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC, BY AFAPA) AND TPI. ALPINE
CONNECTOR PLATES ARE MADE OF 20/18/16GA (W.H/SS/K) ASTM A6S3 GRADE 40/60 (W. K/H,SS) GALV. STEEL, APPLY
PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z,
ANY INSPECTION OF PLATES FOLLOWED BY (I) SHALL BE PER ANNEX AS OF TPI1-2002 SEC.3. A SEAL ON THIS
DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLLEY FOR TRUSS COMPONENT
DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE
BUILDING DESIGNER PER RANISTIPI 1 SEC. 2.

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11/20/2012

UR/-/1/-	·/-/R/-	Scale = .2/5"/Ft.
TC LL	25.0 PSF	REF R561 16488
TC DL	7.0 PSF	DATE 11/20/12
BC DL	10.0 PSF	DRW causr561 12325057
BC LL	0.0 PSF	CA-ENG LVT/CWC
TOT.LD.	42.0 PSF	SEQN- 637469
DUR.FAC.	1.15	FROM KTC
SPACING	24.0"	JREF- 1URC561_Z12



PLT TYP. Wave