

## 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
■ Two (2) set of calculations	views and elevations identifying the location(s)
☐ Two (2) sets of product information	as approved by the Architect and Engineer of Record must be submitted.
Drawings and calculations must be stamped and signed by an Engineer registered in Or- egon and approved by the Architect/Engineer of record for the building.	One (1) copy of your main building permit approved plans (NOTE: Approved plans do not need to be submitted if your project has a development liaison assigned.)
Contractor submittal information:	
Contact name Wes Ayers	
Address PO Box 80514	
City_Portland	State_OR Zip Code_97280
Phone_503-784-1678	yers@BeaudinConstruction.com
	ssued main building permit # 2019-106323 10634
Job Site Address 420 NE 147th Ave	
Description/Scope of work Truss Submittal - BUI	ILDINGS 100, 200, 300, 400, 500
Fees	:
Deferred submittal (DFS) fees are collected in addition building permit. DFS fees cover the cost of the addition design build element.	
The DFS fee for processing and reviewing deferred placed calculated using the value of the particular deferred po	
Minimum fee: Residential, one and two family	dwelling\$195 for DFS with valuation of less than or equal to \$222,000
This is ONE submittal (not one for each building)  Commercial and all other projections for each building)	ets\$510 for DFS with valuation of less than or equal to \$680,000
The Bureau of Development Services (BDS) fee sched www.portlandoregon.gov/bds   select the Fees tab.	dule is also available on the BDS web site at
Helpful Information	Important Telephone Numbers BDS main number503-823-7300
Bureau of Development Services	DSC automated information line 503-823-7310
1900 SW 4th Avenue, Portland, OR 97201	Building code information 503-823-1456
Submit your plans to:	BDS 24 hour inspection request line 503-823-7000
Development Services Center (DSC), First Floor,	Residential information for

For Hours Call 503-823-7310 | Select option 1

DEFERRED SUBMITTAL REQUIREMENTS AND APPLICATION

or visit www.portlandoregon.gov/bds

Information is subject to change.

one and two family dwellings......503-823-7388

City of Portland TTY ...... 503-823-6868

The Alpine truss designs listed below have been cross-checked with the truss placement plan shown below. The sole purpose of this review is to verify that the truss design loads, bearing locations, and/or truss-to-truss connections based on the location, orientation, spacing, and supported framing (if any) indicated on the truss placement plan. Conventional framing is not included in the review (member sizing and connections). All roof and/or floor truss bracing shall conform to the specifications of BCSI 1-03 by the Truss Plate Institute (TPI) and the Wood Truss Council of America (WTCA). Anchor trusses as required by code. No site inspection will be made to verify conformance. 024.20.0900.30370 024.20.0959.14297 024.20.0859.14297 024.20.0959.001430 024.20.0959.20827 024.20.0859.27230 B FG HGR 024.20.0859.33027 024.20.0859.38293 39'6" 39'6" -12'6" City of Fortiand EVIEWED FOR CODE 7 17 24 S. MAY 1 5 2020 5 19-106349-DFS-O1-CO J1 JI Permit Number J2 75 13 73 38,8% DOCUMENT SERVICES BDS A5 A5 A2 A3 A A A Ste assaad Engineering Group DATE: 5-3-2020 25 75 5 5 MAKE CORRECTIONS NOTED EPTION TAKEN DIREVISE AND RESUBMIT DREJECTED DOTHER E-SUPMIT SPECIFIED ITEM 39'6" THIS REVIEW IS ONLY FOR GENERAL CONFORMANCE WITH 39'6" 12'6" THE DESIGN CONCEPT OF THE PROJECT AND GENERAL 91'6" COMPLIANCE WITH THE INFORMATION GIVEN IN THE CON-TRACT DOCUMENTS, EXCEPT WHERE SPECIFIC 1 NS OR NOTED BY MIGROUP, THE REQUIREMENT. AND SPECIFICATIONS GOVERN, CONTRACTO 31-BLE FOR DIMENSIONS WHICH SHALL BE . NO ES CORRELATED AT THE JOB SITE, FASHI AND METHODS OF CONSTRUCTION WORK WITH THAT OF ALL OTHER TORY PERFORMANCE OF WORK

Alpino JREF 1WS671750004 Truss Components of Oregon 0919181 MG/RTT 2/5/2020 0919181-090032.PDF

Truss ID Dwg No.

A1 A2 A3 A4 A5 AGE AGR

024.20.0858.16247 024.20.0858.21973 024.20.0858.27317 024.20.0858.38173

024.20.0858.44953 024.20.0858.52127

024.20.0859.05560

<u></u> M AND, 0 RTL 





PLAN / ELEVATION GOOSEBERRY Bldg 400





Alpine, an ITW Company 8801 Folsom Blvd., Suite 107 Sacramento, CA 95826 Phone: (800)877-3678 (916)387-0116 Fax: (916)387-1110 sacseals@itwbcg.com



Permit Number

DEGEIVED MAY 0 6 2020

BDS DOCUMENT SERVICES

Site Information:

Customer: Truss Components of Oregon, Inc.

Job Number: 0919181

Job Description: Gooseberry Bldg 400

Address: 14708 NE Glisan St, Portland, OR

Job Engineering Criteria:				
Design Code: IBC 2015		IntelliVIEW Version: 18.02.01A through 19.02.02  JRef #: 1WSI71750011		
Wind Standard: ASCE 7-10	Wind Speed (mph): 120	Roof Load (psf): 25.00-12.00- 0.00- 8.00		
Building Type: Closed		Floor Load (psf): None		

This package contains general notes pages, 15 truss drawing(s) and 7 detail(s).

Item	Drawing Number	Truss
1	036.20.1552.08122	A
3	036.20.1552.08574	A2
5	036.20.1552.08090	A4
7	036.20.1644.21933	AGE
9	036.20.1552.09089	В
11	036.20.1552.08261	J1
13	036.20.1552.08543	J3
15	036.20.1552.08199	FG
17	BRCLBSUB0119	
19	GBLLETIN0118	
21	HIPFRAME0118	

Item	Drawing Number	Truss
2	036.20.1552.08168	A1
4	036.20.1552.08948	A3
6	036.20.1552.08121	A5
8	036.20.1552.09166	AGR
10	036.20.1552.09088	J
12	036.20.1552.09041	J2
14	036.20.1552.09026	HGR
16	A12015ENC101014	
18	GABRST101014	
20	HIPFR1800118	
22	HIPFRSCAB0619	·

assaad Engineering Group

ANO EXCEPTION TAKEN

SUBMIT SPECIFIED ITEM

DATE: 3-3-2020

☐ MAKE CORRECTIONS NOTED
☐ REVISE AND RESUBMIT
☐ OTHER

THIS REVIEW IS ONLY FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND GENERAL COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. EXCEPT WHERE SPECIFICALLY RESED OR NOTED BY M GROUP, THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS GOVERN. CONTRACTOR IS RESPONSIBLE FOR: DIMENSIONS WHICH SHALL BE CONFIRMED AND CORRELATED AT THE JOB SITE; FABRICATION PROCESSES AND METHODS OF CONSTRUCTION; COORDINATION OF WORK WITH THAT OF ALL OTHER TRADES AND THE SATISFACTORY PERFORMANCE OF WORK.

MOTE TRUSS & PEVISED FOR OPEN CONDITION SEE SUPPLEMENTAL CALLULATING ATTHEMENT

19-106349-DF5-01-

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### **General Notes**

### Truss Design Engineer Scope of Work, Design Assumptions and Design Responsibilities:

The design responsibilities assumed in the preparation of these design drawings are those specified in ANSI/TPI 1, Chapter 2; and the National Design Standard for Metal Plate Connected Wood Truss Construction, by the Truss Plate Institute. The truss component designs conform to the applicable provisions of ANSI/TPI 1 and NDS, the National Design Specification for Wood Construction by AWC. The truss component designs are based on the specified loading and dimension information furnished by others to the Truss Design Engineer. The Truss Design Engineer has no duty to independently verify the accuracy or completeness of the information provided by others and may rely on that information without liability. The responsibility for verification of that information remains with others neither employed nor controlled by the Truss Design Engineer. The Truss Design Engineer's seal and signature on the attached drawings, or cover page listing these drawings, indicates acceptance of professional engineering responsibility solely for the truss component designs and not for the technical information furnished by others which technical information and consequences thereof remain their sole responsibility.

The suitability and use of these drawings for any particular structure is the responsibility of the Building Designer in accordance with ANSI/TPI 1 Chapter 2. The Building Designer is responsible for determining that the dimensions and loads for each truss component match those required by the plans and by the actual use of the individual component, and for ascertaining that the loads shown on the drawings meet or exceed applicable building code requirements and any additional factors required in the particular application. Truss components using metal connector plates with integral teeth shall not be placed in environments that will cause the moisture content of the wood in which plates are embedded to exceed 19% and/or cause corrosion of connector plates and other metal fasteners.

The Truss Design Engineer shall not be responsible for items beyond the specific scope of the agreed contracted work set forth herein, including but not limited to: verifying the dimensions of the truss component, calculation of any of the truss component design loads, inspection of the truss components before or after installation, the design of temporary or permanent bracing and their attachment required in the roof and/or floor systems, the design of diaphragms or shear walls, the design of load transfer connections to and from diaphragms and shear walls, the design of load transfer to the foundation, the design of connections for truss components to their bearing supports, the design of the bearing supports, installation of the truss components, observation of the truss component installation process, review of truss assembly procedures, sequencing of the truss component installation, construction means and methods, site and/or worker safety in the installation of the truss components and/or its connections.

This document may be a high quality facsimile of the original engineering document which is a digitally signed electronic file with third party authentication. A wet or embossed seal copy of this engineering document is available upon request.

### Temporary Lateral Restraint and Bracing:

Temporary lateral restraint and diagonal bracing shall be installed according to the provisions of BCSI chapters B1, B2, B7 and/or B10 (Building Component Safety Information, by TPI and SBCA), or as specified by the Building Designer or other Registered Design Professional. The required locations for lateral restraint and/or bracing depicted on these drawings are only for the permanent lateral support of the truss members to reduce buckling lengths, and do not apply to and may not be relied upon for the temporary stability of the truss components during their installation.

#### Permanent Lateral Restraint and Bracing:

The required locations for lateral restraint or bracing depicted on these drawings are for the permanent lateral support of the truss members to reduce buckling lengths. Permanent lateral support shall be installed according to the provisions of BCSI chapters B3, B7 and/or B10, or as specified by the Building Designer or other Registered Design Professional. These drawings do not depict or specify installation/erection bracing, wind bracing, portal bracing or similar building stability bracing which are parts of the overall building design to be specified, designed and detailed by the Building Designer.

#### **Connector Plate Information:**

Alpine connector plates are made of ASTM A653 or ASTM A1063 galvanized steel with the following designations, gauges and grades: W=Wave, 20ga, grade 40; H=High Strength, 20ga, grade 60; S=Super Strength; 18ga, grade 60. Information on model code compliance is contained in the ICC Evaluation Service report ESR-1118, available on-line at <a href="https://www.icc-es.org">www.icc-es.org</a>.

#### Fire Retardant Treated Lumber:

Fire retardant treated lumber must be properly re-dried and maintained below 19% or less moisture level through all stages of construction and usage. Fire retardant treated lumber may be more brittle than untreated lumber. Special handling care must be taken to prevent breakage during all handling activities.

### General Notes (continued)

#### **Key to Terms:**

Information provided on drawings reflects a summary of the pertinent information required for the truss design. Detailed information on load cases, reactions, member lengths, forces and members requiring permanent lateral support may be found in calculation sheets available upon written request.

BCDL = Bottom Chord standard design Dead Load in pounds per square foot.

BCLL = Bottom Chord standard design Live Load in pounds per square foot.

CL = Certified lumber.

Des Ld = total of TCLL, TCDL, BCLL and BCDL Design Load in pounds per square foot.

FRT = Fire Retardant Treated lumber.

FRT-DB = D-Blaze Fire Retardant Treated lumber.

FRT-DC = Dricon Fire Retardant Treated lumber.

FRT-I-P = FirePRO Fire Retardant Treated lumber.

FRT-FL = FlamePRO Fire Retardant Treated lumber.

FRT-FT = FlameTech Fire Retardant Treated lumber.

FRT-PG = PYRO-GUARD Fire Retardant Treated lumber.

g = green lumber.

HORZ(LL) = maximum Horizontal panel point deflection due to Live Load, in inches.

HORZ(TL) = maximum Horizontal panel point long term deflection in inches, due to Total Load, including creep adjustment.

HPL = additional Horizontal Load added to a truss Piece in pounds per linear foot or pounds.

Ic = Incised lumber.

FJ = Finger Jointed lumber.

L## = user specified divisor for limiting span/deflection ratio for evaluation of actual L/defl value.

L/defl = ratio of Length between bearings, in inches, divided by the vertical Deflection due to creep, in inches, at the referenced panel point. Reported as 999 if greater than or equal to 999.

Loc = Location, starting location of left end of bearing or panel point (joint) location of deflection.

Max BC CSI = Maximum bending and axial Combined Stress Index for Bottom Chords for of all load cases.

Max TC CSI = Maximum bending and axial Combined Stress Index for Top Chords for of all load cases.

Max Web CSI= Maximum bending and axial Combined Stress Index for Webs for of all load cases.

NCBCLL = Non-Concurrent Bottom Chord design Live Load in pounds per square foot.

PL = additional Load applied at a user specified angle on a truss Piece in pounds per linear foot or pounds.

PLB = additional vertical load added to a Bottom chord Piece of a truss in pounds per linear foot or pounds

PLT = additional vertical load added to a Top chord Piece of a truss in pounds per linear foot or pounds.

PP = Panel Point.

R = maximum downward design Reaction, in pounds, from all specified gravity load cases, at the indicated location (Loc).

-R = r\_aximum upward design Reaction, in pounds, from all specified gravity load cases, at the identified location (Loc).

Rh = maximum horizontal design Reaction in either direction, in pounds, from all specified gravity load cases, at the indicated location (Loc).

RL = maximum horizontal design Reaction in either direction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).

Rw = maximum downward design Reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the identified location (Loc).

TCDL = Top Chord standard design Dead Load in pounds per square foot.

TCLL = Top Chord standard design Live Load in pounds per square foot.

U = maximum Upward design reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).

VERT(CL) = maximum Vertical panel point deflection in inches due to Live Load and Creep Component of Dead Load in inches.

VERT(CTL) = maximum Vertical panel point deflection ratios due to Live Load and Creep Component of Dead Load, and maximum long term Vertical panel point deflection in inches due to Total load, including creep adjustment.

VERT(LL) = maximum Vertical panel point deflection in inches due to Live Load.

VERT(TL) = maximum Vertical panel point long term deflection in inches due to Total load, including creep adjustment. W = Width of non-hanger bearing, in inches.

Refer to ASCE-7 for Wind and Seismic abbreviations.

Uppercase Acronyms not explained above are as defined in TPI 1.

## References:

- 1. AWC: American Wood Council; 222 Catoctin Circle SE, Suite 201; Leesburg, VA 20175; www.awc.org.
- 2. ICC: International Code Council; www.iccsafe.org.
- 3. Alpine, a division of ITW Building Components Group Inc.: 13723 Riverport Drive, Suite 200, Maryland Heights, MO 63043; www.alpineitw.com.
- TPI: Truss Plate Institute, 2670 Crain Highway, Suite 203, Waldorf, MD 20601; <a href="www.tpinst.org">www.tpinst.org</a>.
   SBCA: Wood Truss Council of America, 6300 Enterprise Lane, Madison, WI 53719; <a href="www.sbcindustry.com">www.sbcindustry.com</a>.

SEQN: 64584 / HIPS Ply: 1 Job Number: 0919181 Cust: R 7175 ... IRef: 1WSJ71750011 T2 DrwNo: 036.20.1552.08122 FROM: MG Qty: 2 Gooseberry Bldg 400 / JAK 02/05/2020 Truss Label: A 5'0"10 9'11"4 16'1"13 22'4"7 28'8"12 33'7"6 38'8" 4'10"10 6'2"9 6'2"9 6'4"5 4'10"10 5'0"10 5'0"10 ≡6X6 D =6X6 G 1.5X4 =3×5 WZ W3 6\*6 A \_\_\_\_O ≡3X5 = H0308 = 3X5 =4X8(B1) =4X5 =4X8(B1) 38'8" 9'7"12 6'6"1 2'6"3 3'11"15 6'4"5 9'7"12 38'8" 9'7"12 16'1"13 18'8' 22'7"15 29'0"4

Loading Criteria (psf) TCLL: 25.00 TCDL: 12.00	Wind Criteria Wind Std: ASCE 7-10 Speed: 120 mph	Snow Criteria         (Pg.Pf in PSF)           Pg: 25.0         Ct: 1.1         CAT: II           Pf: 21.2         Ce: 1.1	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.240 F 999 360
BCLL: 0.00 BCDL: 8.00 Des Ld: 45.00	Risk Category: II EXP: B Kzt: NA	Lu: - Cs: 1.00 Snow Duration: 1.15	VERT(CL): 0.474 F 971 240 HORZ(LL): 0.103 K HORZ(TL): 0.196 K
NCBCLL: 10.00 Soffit: 2.00 Load _uration: 1.15 Spacing: 24.0 "	Mean Height: 28.56 ft TCDL: 6.0 psf BCDL: 4.2 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.87 ft Loc. from endwall: Any GCpi: 0.18	Code / Misc Criteria Bldg Code: IBC 2015 TPI Std: 2014 Rep Fac: Yes FT/RT:4(0)/4(0) Plate Type(s):	Creep Factor: 2.0 Max TC CSI: 0.498 Max BC CSI: 0.889 Max Web CSI: 0.359
	Wind Duration: 1.60	WAVE, HS	VIEW Ver: 19.02.02.0109.12

#### Snow Critoria (De Déin DCE) Doff/CSI Critoria ▲ Maximum Reactions (lbs) Non-Gravity Gravity Loc R+ /R-/Rh /Rw /U В 1917 /-/930 1-1917 /-/930 Wind reactions based on MWFRS В Brg Width = 5.5 Min Reg = 3.2 Brg Width = 5.5 Min Req = 3.2 Bearings B & I are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens, Comp. B-C 638 - 3235 F-G C-D 593 - 3094 G-H

D-E

E-F

### Lumber

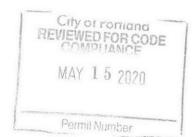
Top chord 2x6 HF #2 Bot chord 2x4 HF #2 Webs 2x4 :HF Standard + HF Stud: W3,W5, W7 2x4 HF #2;

Bottom chord checked for 10.00 psf non-concurrent live load.

Truss designed for unbalanced snow loads.

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

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





Maximum Bot Chord Forces Per Ply (lbs)

665 - 3758

665 - 3755

Chords	Tens.C	Comp.	Chords	Tens.	Comp.
B - O	2782	- 475	M-L	3764	- 449
0 - N	2765	- 355	L-K	2767	-366
N-M	3764	-449	K-1	2781	- 486

H-I

/RL

/160 /105

662 - 3727

592 - 3094

638 - 3234

/160 /-

Maximum Web Forces Per Ply (lbs)

vvebs	rens.c	omp.	vvebs	rens.	Comp.
C-0	139	- 398	F-L	130	- 697
D-N	1275	- 174	L-G	1244	- 170
E-N	111	- 694	K - H	138	- 397

02/20/2020

\*\*WARNING\*\* READ AND FOLLOW ALL NOTES ON THIS DRAWING!

\*\*IMPORTANT\*\* FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections 93, B7, or 910, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc., shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trussesA seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

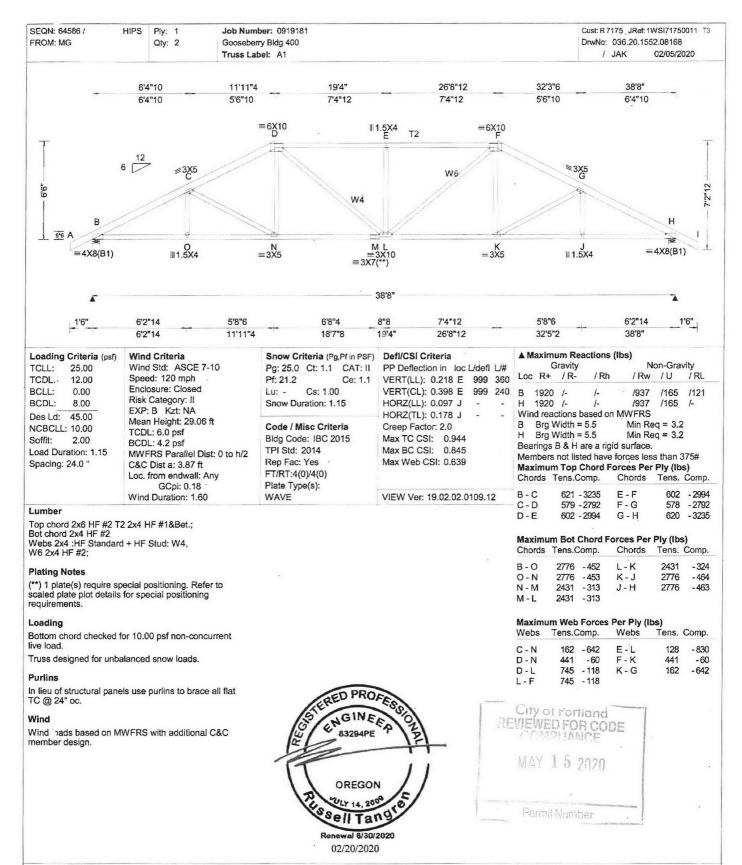
For more information see this lob's general notes page and these web sites: ALPINE: www.abjinst.org, SBCA: www.sbcindustry.com; ICC: www.

Truss Components of Oregon, Inc. P. O. Box 468 Cornelius OR 97113 (503) 357-2118 Ext



8801 Folsom Blvd., Suite 10 Sacramento, CA 95826

For more information see this job's general notes page and these web sites: ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcind



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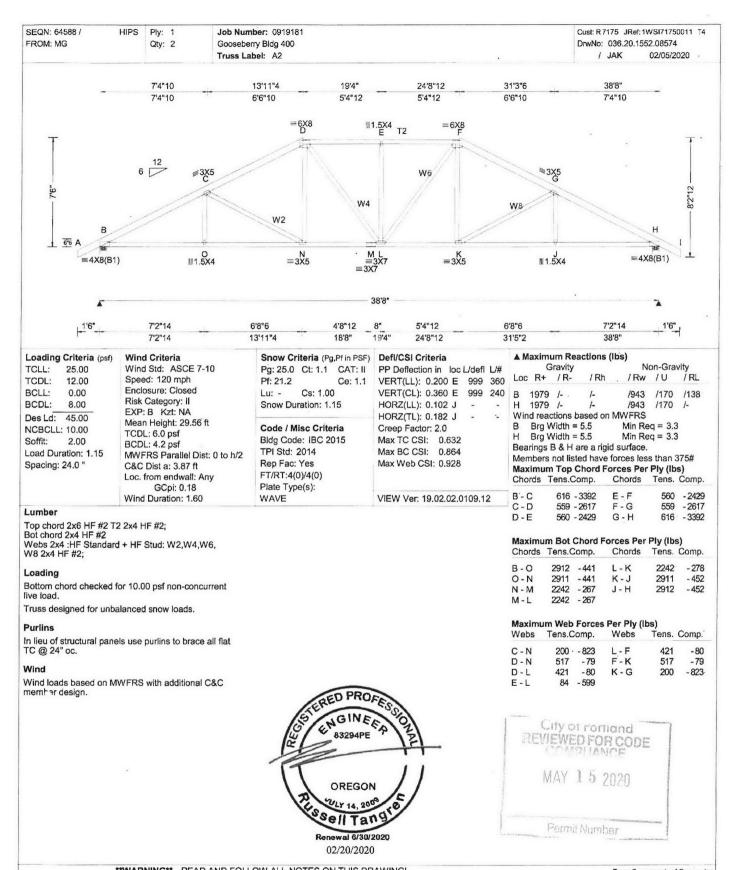
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SEQN: 64590 / HIPS Job Number: 0919181 Cust: R 7175 . IRef: 1WSI71750011 T5 Ply: 1 DrwNo: 036.20.1552.08948 Gooseberry Bldg 400 FROM: MG Qty: 2 / JAK 02/05/2020 Truss Label: A3 8'4"10 15'11"4 22'8"12 30'3"6 35'1" 38'8" 37 7'6"10 7'6"10 4'9"10 3'7" 4'9"10 6'9"8 3'7" ∥5X7 E 115X7 **T3** ₹3X5 ≢3X5 D G T4 ≅5X5 H W7 W1 66 A =3X70 Ⅲ1.5X4 =4X8(B1) 11.5X4 =4X8(B1) 38'8" 1'6" 1'6" 7'4"14 3'0"4 4'2"8 7'6"10 8'2"14 8'2"14 38'8" 15'7"12 18'8' 22'10"8 30'5"2 8'2"14 ▲ Maximum Reactions (lbs) Defl/CSI Criteria Loading Criteria (psf) Wind Criteria Snow Criteria (Pg,Pf in PSF) Non-Gravity Wind Std: ASCE 7-10 PP Deflection in loc L/defl L/# Gravity TCLL: 25.00 Pg: 25.0 Ct: 1.1 CAT: II /Rh /Rw /U /RL Loc R+ / R-Speed: 120 mph Pf: 21.2 VERT(LL): 0,202 N 999 360 TCDI . 12.00 Ce: 1.1 Enclosure: Closed BCLL: 0.00 Lu: -Cs: 1.00 VERT(CL): 0.354 N 999 240 В 2038 /-/175 /154 Risk Category: II HORZ(LL): 0.108 K 1-/946 BCDL: 8.00 Snow Duration: 1.15 2038 /175 EXP: B Kzt: NA Mean Height: 30.06 ft HORZ(TL): 0.189 K Wind reactions based on MWFRS Des Ld: 45.00 Brg Width = 5.5 Min Reg = 3.4 Code / Misc Criteria Creep Factor: 2.0 NCBCLL: 10.00 TCDL: 6.0 psf Brg Width = 5.5 Min Req = 3.4 Bidg Code: IBC 2015 Max TC CSI: 0.962 Soffit: 2.00 BCDL: 4.2 psf Bearings B & I are a rigid surface. TPI Std: 2014 Max BC CSI: 0.850 Load Duration: 1.15 MWFRS Parallel Dist: 0 to h/2 Members not listed have forces less than 375# Rep Fac: Yes Max Web CSI: 0.343 Spacing: 24.0 ' C&C Dist a: 3.87 ft Maximum Top Chord Forces Per Ply (lbs) FT/RT:4(0)/4(0) Loc. from endwall: Any Chords Tens.Comp. Chords Tens. Comp. Plate Type(s): GCpi: 0.18 B-C 574 - 3481 F-G 544 - 2639 Wind Duration: 1.60 WAVE VIEW Ver: 19.02.02.0109.12 C-D 602 - 3382 G-H 601 - 3382 Lumber 546 - 2648 - 3481 D-E 574 Top chord 2x6 HF #2 T2,T4 2x4 DF-L #1&Bet.; T3 2x4 DF-L #2; Bot chord 2x4 HF #2 E-F 553 - 2189 Maximum Bot Chord Forces Per Ply (lbs) Webs 2x4 HF #2 W1,W7 2x4 HF Standard + Chords Tens.Comp. Chords HF Stud: 2187 B-0 2980 -416 M-L - 228 L-K 0 - N 2978 -417 2977 -427 (a) Continuous lateral restraint equally spaced on K-1 N-M 2187 - 228 2979 -427 Maximum Web Forces Per Ply (lbs) Loading Tens. Comp. Webs Tens.Comp. Webs Bottom chord checked for 10.00 psf non-concurrent live load. D-N 217 -897 578 -117 Truss Jesigned for unbalanced snow loads. N-F 582 -86 L-G 218 -902 **Purlins** In lieu of structural panels use purlins to brace all flat TC @ 24" oc. Wind Wind loads based on MWFRS with additional C&C City of Fortland EVIEWED FOR CODE MAY 15 2020 OREGON Sell Tar Renewal 6/30/2020 02/20/2020

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SEQN: 64592 / HIPS Ply: 1 Job Number: 0919181 Cust: R 7175 JRef: 1WSI71750011 T6 DrwNo: 036.20.1552.08090 FROM: MG Gooseberry Bldg 400 Otv: 2 Truss Label: A4 / JAK 17'11"4 20'8"12 32'5"12 5'8"12 6'0"4 2'9"8 6'0"4 5'B"12 5'7" =5X5 =3X5 =3X7 Q ≡3X5 =3X5 =5X7(A2) =5X7(A2) 38'8 8'4"14 9'2"14 9'2"14 177"12 188 29'5"2 38'8"

Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 25.00	Wind Std: ASCE 7-10	Pg: 25.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#
TCDL: 12.00	Speed: 120 mph	Pf: 21.2 Ce: 1.1	VERT(LL): 0.234 P 999 36
BCLL: 0.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.401 P 999 24
BCDL: 8.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.100 M -
Des Ld: 45.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	EXP: B Kzt: NA Mean Height: 30.56 ft TCDL: 6.0 psf BCDL: 4.2 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.87 ft Loc. from endwall: Any GCpi: 0.18	Code / Misc Criteria Bldg Code: IBC 2015 TPI Std: 2014 Rep Fac: Yes FT/RT:4(0)/4(0) Plate Type(s):	HORZ(TL): 0.172 M - Creep Factor: 2.0 Max TC CSI: 0.753 Max BC CSI: 0.747 Max Web CSI: 0.322
	Wind Duration: 1.60	WAVE	VIEW Ver; 19.02.02.0109.12

#### ▲ Maximum Reactions (lbs) Non-Gravity Gravity Loc R+ /Rh /Rw /U /RL / R-60 2098 /-40 B /947 /180 /170 2098 /-1-/947 /180 /-Wind reactions based on MWFRS Brg Width = 5.5 Min Req = 3.5 Brg Width = 5.5 Min Req = 3.5 Bearings B & K are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B-C 611 - 3632 G-H 551 - 2572 C-D 614 - 3470 H-1 614 - 3367 D-E 615 - 3470 614 - 3367 1-1 F-F J-K 553 - 2582 611 - 3632 F-G 539 - 2160 Maximum Bot Chord Forces Per Ply (lbs)

Chords

0 - N

N - M

M-K

Webs

G-N

N-H

H-M

Tens. Comp.

Tens. Comp.

- 180

-346

-439

- 177

-873

-56

2157

2778

3124

719

220

425

02/05/2020

# HF Stud:

Lumber

(a) Continuous lateral restraint equally spaced on

Bot chord 2x4 HF #1&Bet.
Webs 2x4 HF #2 W1,W2,W8,W9 2x4 HF Standard +

#### Loading

Bottom chord checked for 10.00 psf non-concurrent

Truss designed for unbalanced snow loads.

Top chord 2x4 HF #2 T1, T5 2x6 HF #2;

#### **Purlins**

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

#### Wind

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



City of Fortland REVIEWED FOR CODE MAY 15 2020

Chords Tens.Comp.

3124 - 429

2157 - 180

Tens.Comp.

220 -872

724 - 141

424 - 56

Maximum Web Forces Per Ply (lbs)

2778 -335

B-Q

Q-P

P-0

Webs

Q-E

E-P

P-F

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8801 Folsom Blvd Suite 103 Sacramento, CA 95826

For more information see this job's general notes page and these web sites: ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org

COMN Ply: 1 SEQN: 64594 / Job Number: 0919181 Cust: R 7175 JRef: 1WSI71750011 T7 Gooseberry Bldg 400 DrwNo: 036.20.1552.08121 FROM: MG Qty: 20 02/05/2020 / JAK Truss Label: A5 13'0"13 19'4" 25'7"3 31'10"5 33'5"11 38'8 5'2"5 6'9"11 6'3"3 6'3"3 6'3"3 177 5'2"5 6'3"3 =5<u>X</u>5 ≈3X5 ₹3X5 G T2 E .5X4 H ≥5X5 56 A =6X8= 3X5 =4X8(B1) =3X5 =4X8(B1) 38'8' 9'11"4 9'4"12 9'4"12 9'11"4 38'8" 28'8"12 ▲ Maximum Reactions (Ibs) Snow Criteria (Pg,Pf in PSF) Defl/CSI Criteria Loading Criteria (psf) Wind Criteria Gravity Non-Gravity Wind Std: ASCE 7-10 Pg: 25.0 Ct: 1.1 CAT: II PP Deflection in loc L/defl L/# TCLL: 25.00 /R-/Rw /U Loc R+ Speed: 120 mph TCDL: 12.00 Pf: 21.2 VERT(LL): 0.204 M 999 360 Ce: 1 1 Enclosure: Closed VERT(CL): 0.375 M 999 240 BCLL: 0.00 Lu: -Cs: 1.00 B 1917 /-/184 /945 /182 Risk Category: II /184 /-Snow Duration: 1.15 HORZ(LL): 0.091 L 1917 /-1-/945 BCDL: 8.00 EXP: B Kzt: NA HORZ(TL): 0.167 L Wind reactions based on MWFRS Des Ld: 45.00 Mean Height: 30.91 ft Brg Width = 5.5 Min Req = 3.2 Code / Misc Criteria Creep Factor: 2.0 **NCBCLL: 10.00** TCDL: 6.0 psf Min Req = 3.2 Brg Width = 5.5 Bldg Code: IBC 2015 Max TC CSI: 0.642 Soffit: 2.00 BCDL: 4.2 psf Bearings B & J are a rigid surface. TPI Std: 2014 Max BC CSI: 0.912 Load Duration: 1.15 MWFRS Parallel Dist: 0 to h/2 Members not listed have forces less than 375# Spacing: 24.0 " Rep Fac: Yes Max Web CSI: 0.542 C&C Dist a: 3.87 ft Maximum Top Chord Forces Per Ply (lbs) FT/RT:4(0)/4(0) Loc. from endwall: Any Chords Tens.Comp. Chords Tens. Comp. Plate Type(s): GCpi: 0.18 625 - 3175 -2070 Wind Duration: 1.60 WAVE VIEW Ver: 19.02.02.0109.12 C-D 634 - 3009 G-H 635 - 2860. Lumber D-E 634 - 2860 634 -3009 Top chord 2x6 HF #2 T2,T3 2x4 HF #2; Bot cl.ord 2x4 HF #2 E-F 554 - 2070 625 -3175 Webs 2x4 HF #2 W1,W7 2x4 HF Standard + Maximum Bot Chord Forces Per Ply (lbs) HF Stud: Chords Tens.Comp. Chords Tens. Comp. 2710 -427 2280 -323 B-N M - I (a) Continuous lateral restraint equally spaced on N-M 2280 - 312 1 - .1 2710 -438 member. Maximum Web Forces Per Ply (lbs) Webs Tens. Comp. Tens.Comp. Webs Bottom chord checked for 10.00 psf non-concurrent live load. N-E -77 M-G 239 - 788 Truss designed for unbalanced snow loads. 239 -788 479 -78 E-M G-L F-M 1280 - 290 Wind Wind loads based on MWFRS with additional C&C member design. City of Fortiand REVIEWED FOR CODE MAY 1 5 2020 OREGON sellTan Permit Number

For more information see this job's general notes page and these web sites: ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry

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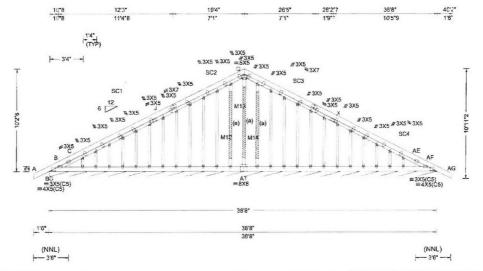
For more information see this job's beneral notes page and these web sites: ALPINE: www.abpinelty.com; TPI: www.tcinst.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe

Renewal 6/30/2020 02/20/2020

Truss Components of Oregon, Inc. P. O. Box 468 -Cornelius OR 97113 (503) 357-2118 Ext



Cust: R 7175 JRef: 1WSI71750011 T15 SEQN: 67773 GABL Ply: 1 Job Number: 0919181 Gooseberry Bldg 400 DrwNo: 036.20.1644.21933 FROM: MG Qty: 2 / RTT 02/05/2020 Truss Label: AGE Page 1 of 2



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 25.00 TCDL: 12.00 BCLL: 0.00 BCDL: 8.00	Wind Std: ASCE 7-10 Speed: 120 mph Enclosure: Closed Risk Category: II	Pg: 25.0 Ct: 1.1 CAT: II Pf: 21.2 Ce: 1.1 Lu: - Cs: 1.00 Snow Duration: 1.15	PP Deflection in loc L/defl L/# VERT(LL): 0.003 C 999 360 VERT(CL): 0.005 C 999 240 HORZ(LL): -0.001 D
Des Ld: 45.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	EXP: B Kzt: NA Mean Height: 30.91 ft TCDL: 6.0 psf BCDL: 4.2 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.87 ft Loc. from endwall: Åny GCpi: 0.18 Wind Duration: 1.60	Code / Misc Criteria Bldg Code: IBC 2015 TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:4(0)/4(0) Plate Type(s): WAVE	HORZ(TL): 0.001 E  Creep Factor: 2.0  Max TC CSI: 0.193  Max BC CSI: 0.036  Max Web CSI: 0.440  VIEW Ver: 19.02.02.0109.12

#### ▲ Maximum Reactions (lbs), or \*=PLF Non-Gravity Gravity Loc R+ / R-/Rw /U

BG\*169 1-/65 Wind reactions based on MWFRS BG Brg Width = 464 Min Req = -Bearing BG is a rigid surface. Members not listed have forces less than 375#

#### Lumber

Top chord 2x4 HF #2 Bot chord 2x6 HF #2 Webs 2x3 HF #2 M12,M13,M14 2x4 HF #2; Stack Chord: SC1 2x6 HF #2; Stack Chord: SC2 2x6 HF #2; Stack Chord: SC3 2x6 HF #2 Stack Chord: SC4 2x6 HF #2

(a) #3 or better scab reinforcement. Same size & 80% length of web member. Attach with 10d Box or Gun nails (0.128"x3",min.) @ 6" oc.

#### Plating Notes

All plates are 1.5X4 except as noted.

#### Loading

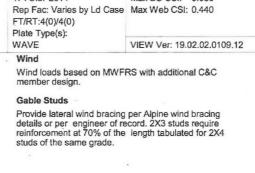
Truss designed to support 1-6-0 top chord outlookers and cladding load not to exceed 5.00 PSF one face and 24.0" span opposite face. Top chord may be notched 1.5" deep X 5.5" periodically along top edge. DO NOT OVERCUT. No knots or other lumber defects allowed within 12" of notches. Do not notch in overhang or heel panel, unless specified otherwise.

Bottom chord checked for 10.00 psf non-concurrent live load.

Truss designed for unbalanced snow loads.

In lieu of structural panels use purlins to brace TC @ 24" oc.

[1] 2/20/2020 RTT Change: Allow for a deeper notch in the top chord





Renewal 6/30/2020 02/20/2020

City of Fortiand EVIEWED FOR CODE MAY 15 2020

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SEQN: 67773 FROM: MG

GABL Ply: 1 Qty: 2

Job Number: 0919181 Gooseberry Bldg 400 Truss Label: AGE

Cust: R 7175 JRef: 1WSI71750011 T15 DrwNo: 036.20.1644.21933

/ RTT 02/05/2020

#### **Additional Notes**

Page . of 2

Stacked top chord must NOT be notched or cut in area (NNL). Attach stacked top chord (SC) to dropped top chord in notchable area using 3x4 tie-plates 24" oc. Center plate on stacked/dropped chord interface, plate length perpendicular to chord length. Splice top chord in notchable area using 3x6.



City of Fortiana EVEWEDFORCODE MAY 1 5 2020

02/20/2020

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For more information see this job's general roles gave and these web sites. APINE: www.alpinelty.com. TPI: www.binistorus.SBCA: www.sbcindusty.com.ICC: www.iccsafe

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Cust: R7175 ; JRef: 1WSI71750011 T8 HIPS Ply: 2 Job Number: 0919181 SEON: 64599 / DrwNo: 036.20.1552.09166 Gooseherry Bldg 400 Qty: 2 FROM: MG / JAK 02/05/2020 Truss Label: AGR 2 Complete Trusses Required 23'11"4 30'8"12 38'8' 22'11"4 15'7" 7'11"4 7'11"4 1 6'9"8 7'11"4 7'7"12 7'4"4 = 5X7 =6X6 C =6X6 = 3X5 E 111.5X4 F W4 W6 7 4.6 W2 5'2" 6\*6 A = K = 4X8 114X5 =4X12(A1) N II4X5 =4X12 =H0510 =4X12(A1) 38'8' 7'9"8 3'1" 4'7"4 7'7"4 7'9"8 1'6" 7'9"8 30'10"8 38'8' 15'7" 18'8 23'3"4 7'9"8 ▲ Maximum Reactions (lbs) Snow Criteria (Pg,Pf in PSF) Defl/CSI Criteria Wind Criteria Loading Criteria (psf) Gravity Non-Gravity Wind Std: ASCE 7-10 Pg: 25.0 Ct: 1.1 CAT: II PP Deflection in loc L/defl L/# 25.00 TCLL: / RL Loc R+ /Rh /Rw /U /R-Speed: 120 mph VERT(LL): 0.347 D 999 360 TCDL. 12.00 Pf. 21 2 Ce: 1.1 Enclosure: Closed VERT(CL): 0.628 D 733 240 0 1-/627 1-Cs: 1.00 4274 /-BCLL: 0.00 Lu: -Risk Category: II EXP: B Kzt: NA 4274 /-/627. /-Snow Duration: 1.15 HORZ(LL): 0.079 C 1-1-8.00 BCDL: Wind reactions based on MWFRS HORZ(TL): 0.144 C Des Ld: 45.00 Brg Width = 5.5 Brg Width = 5.5 Mean Height: 28.06 ft Min Reg = 3.5Code / Misc Criteria Creep Factor: 2.0 NCBCLL: 0.00 Min Reg = 3.5 TCDL: 6.0 psf Bldg Code: IBC 2015 Max TC CSI: 0.560 Soffit: 2.00 Bearings O & H are a rigid surface. BCDL: 4.2 psf Max BC CSI: 0.857 TPI Std: 2014 Load Duration: 1.15 MWFRS Parallel Dist: 0 to h/2 Members not listed have forces less than 375# Max Web CSI: 0.440 Rep Fac: Varies by Ld Case Spacing: 24.0 " C&C Dist a: 3.87 ft Maximum Top Chord Forces Per Ply (lbs) FT/RT:4(0)/4(0) Loc. from endwall: Any Chords Tens.Comp. Chords Tens. Comp. Plate Type(s): GCpi: 0.18 876 - 5555 650 - 4254 F-F B-C VIFW Ver: 19.02.02.0109.12 WAVE, HS Wind Duration: 1.60 F-G 876 - 5555 880 - 5576 C-D G-H 650 - 4249 Lumber 880 - 5576 D-E Top chord 2x6 HF #2 Bot chord 2x6 HF SS Webs 2x4 :HF Standard + HF Stud: W2.W4. Maximum Bot Chord Forces Per Ply (lbs) Tens. Comp. Tens.Comp. Chords Chords W6 2x4 HF #2; 5568 -879 B-N 3748 Nailnote N - M 3721 - 567 K-J 3717 - 566 Nail Schedule:0.120"x3", min. nails 5568 -879 J-H 3743 - 569 M-L Nati Scriedule: 0.120 x3 , mini. Halis
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @ 6.25" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails Maximum Web Forces Per Ply (lbs) Tens.Comp. Webs Webs Tens. Comp. in each row to avoid splitting. 2080 K-G - 351 N-C 727 -88 716 -86 2090 -353 G-J C-M Special Loads -(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15) D: From 77 plf at -1.50 to 77 plf at 7.94 D: From 38 plf at 7.94 to 38 plf at 30.73 TC: From 77 plf at 38 plf at 77 plf at 77 plf at 4 plf at 16 plf at 30.73 to 40.17 TC: From -1.50 to 0.00 to 0.00 7.95 4 plf at 16 plf at BC: From BC: From 8 plf at 7.95 to 8 plf at 30.72 City of ronland BC: From 16 plf at 4 plf at 30.72 to 38.67 to 16 plf at 38.67 83294PE VIEWED FOR CODE BC: From BC: 975 4 plf at 975 ib Conc. Load at 7.95,30.72 348 lb Conc. Load at 10.00,12.00,14.00,16.00 18.00, 19.33, 20.67, 22.67, 24.67, 26.67, 28.67 MAY 15 2020 OREGON **Purlins** In lieu of structural panels use purlins to brace all flat TC @ 24" oc. Sell Tan Wind Renewal 6/30/2020 Wind loads and reactions based on MWFRS. 02/20/2020 Truss Components of Oregon, Inc P. O. Box 468

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\*\*IMPORTANT\*\* FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

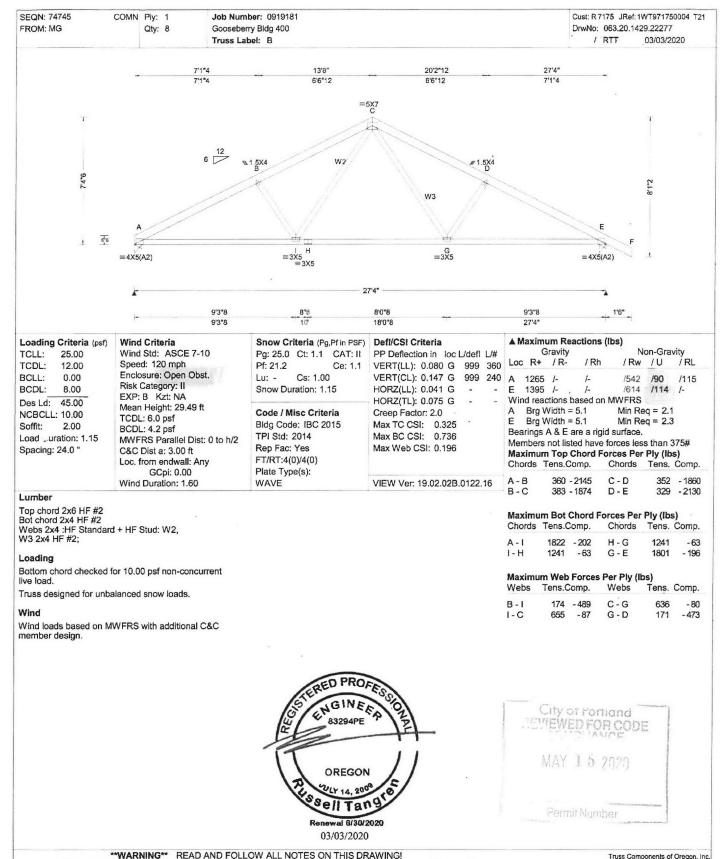
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8801 Folsom Blvd., Suite 107 Sacramento, CA 95826

For more information see this job's general notes page and these web sites: ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.com; ICC: www.ic



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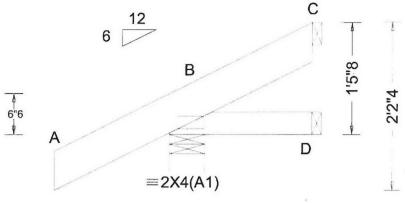
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SEQN: 64574 / Cust: R 7175 JRef: 1WSI71750011 T12 JACK Ply: 1 Job Number: 0919181 FROM: MG Qty: 8 Gooseberry Bldg 400 DrwNo: 036.20,1552.09088 / JAK 02/05/2020 Truss Label: J



1'10"3 1'6" 1'10"3

Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (Ibs) Gravity Non-Gravity		
TCLL: 25.00 TCDL: 12.00	Wind Std: ASCE 7-10 Speed: 120 mph	Pg: 25.0 Ct: 1.1 CAT: II Pf: 21.2 Ce: 1.1	PP Deflection in loc L/defl L/# VERT(LL): NA	Loc R+ /R- /Rh /Rw /U /RL		
BCLL: 0.00 BCDL: 8.00	Enclosure: Closed Risk Category: II EXP: B Kzt: NA	Lu: - Cs: 1.00 Snow Duration: 1.15	VERT(CL): NA HORZ(LL): -0.000 D HORZ(TL): 0.000 D	B 279 /- /- /154 /27 /42 D 23 /- /- /15 /- /- C 8 /- /- /15 /9 /-		
Des Ld: 45.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Mean Height: 26.54 ft TCDL: 6.0 psf BCDL: 4.2 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18	Code / Misc Criteria Bldg Code: IBC 2015 TPI Std: 2014 Rep Fac: Yes FT/RT:4(0)/4(0) Plate Type(s):	Creep Factor: 2.0 Max TC CSI: 0.091 Max BC CSI: 0.014 Max Web CSI: 0.000	Wind reactions based on MWFRS  B Brg Width = 5.5 Min Req = 1.5  D Brg Width = 1.5 Min Req = -  C Brg Width = 1.5 Min Req = -  Bearing B is a rigid surface.  Members not listed have forces less than 375#		
	Wind Duration: 1.60	WAVE	VIEW Ver: 19.02.02.0109.12			

### Lumber

Top chord 2x6 HF #2 Bot chord 2x4 HF #2

Bottom chord checked for 10.00 psf non-concurrent live load.

#### Wind

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



02/20/2020

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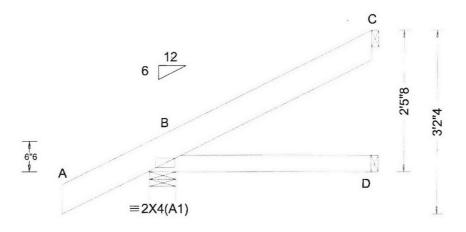
For more information see whis lob's general notes page and these web sites: ALPINE: www.bisineltw.com: TPI: www.bisineltw.com: T

For more information see this job's general notes page and these web sites: ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org

Truss Components of Oregon, Inc. P. O. Box 468 Cornelius OR 97113 (503) 357-2118 Ext



Ply: 1 Cust: R 7175 JRef: 1WSI71750011 T11 SEQN: 64576 / **JACK** Job Number: 0919181 FROM: MG Qty: 8 Gooseberry Bldg 400 DrwNo: 036.20.1552.08261 / JAK 02/05/2020 Truss Label: J1



3'10"3 - 1'6" 3'10"3

Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	A R			actions (I			
TCLL: 25.00 TCDL: 12.00	Wind Std: ASCE 7-10 Speed: 120 mph	Pg: 25.0 Ct: 1.1 CAT: II Pf: 21.2 Ce: 1.1	PP Deflection in loc L/defl L/# VERT(LL): NA	Loc	: R+	Fravity / R-	/Rh	/ Rw	on-Gra / U	/RL
BCLL: 0.00 BCDL: 8.00 Des Ld: 45.00	Enclosure: Closed Risk Category: II EXP: B Kzt: NA	Lu: - Cs: 1.00 Snow Duration: 1.15	VERT(CL): NA VERT(CL): NA HORZ(LL): 0.001 D HORZ(TL): 0.002 D	D	337 56 115	/- /- /-	-  -  -	/183 /33 /44	/26 /- /31	/70 /- /-
NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Mean Height: 27.04 ft TCDL: 6.0 psf BCDL: 4.2 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCDi: 0.18	Code / Misc Criteria Bldg Code: IBC 2015 TPI Std: 2014 Rep Fac: Yes FT/RT:4(0)/4(0) Plate Type(s):	Creep Factor: 2.0 Max TC CSI: 0.107 Max BC CSI: 0.092 Max Web CSI: 0.000	B D C Bea	Brg V Brg V Brg V aring E	Vidth = Vidth = Vidth = 3 is a rig	1.5 1.5 id surface	Min Re Min Re Min Re	q = - q = -	
	Wind Duration: 1.60	WAVE	VIEW Ver: 19.02.02.0109.12							

#### Lumber

Top chord 2x6 HF #2 Bot chord 2x4 HF #2

#### Loading

Bottom chord checked for 10.00 psf non-concurrent live load.

Wind loads based on MWFRS with additional C&C membar design.



City of Fortiand MAY 1 5 2020

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SEQN: 64578 / JACK Ply: 1 Job Number: 0919181 Cust: R7175 JRef: 1WSI71750011 T10 FROM: MG Qty: 8 Gooseberry Bldg 400 DrwNo: 036.20.1552.09041 / JAK 02/05/2020 Truss Label: J2 D  $\equiv$  2X4(A1) 5'10"3 1'6' 5'10"3 Wind Criteria Snow Criteria (Pg,Pf in PSF) Defl/CSI Criteria ▲ Maximum Reactions (lbs) Loading Criteria (psf) Gravity Non-Gravity TCLL: 25.00 Wind Std: ASCE 7-10 Pg: 25.0 Ct: 1.1 CAT: II PP Deflection in loc L/defl L/# Loc R+ /Rw /U /RL /R-Speed: 120 mph TCDL: 12.00 Pf: 21.2 Ce: 1.1 VERT(LL): NA Enclosure: Closed BCLL: 0.00 Cs: 1.00 VERT(CL): NA Lu: -/226 /28 420 /98 Risk Category: II BCDL: 8.00 Snow Duration: 1.15 HORZ(LL): 0.005 D D 87 1-/51 EXP: B Kzt: NA 200 1-1-/80 /52 Des Ld: 45.00 HORZ(TL): 0.009 D Mean Height: 27.54 ft Wind reactions based on MWFRS Code / Misc Criteria **NCBCLL: 10.00** Creep Factor: 2.0 TCDL: 6.0 psf B Brg Width = 5.5 Min Req = 1.5 Bldg Code: IBC 2015 Max TC CSI: 0.260 Soffit: 2.00 BCDL: 4.2 psf Brg Width = 1.5 Min Req = -TPI Std: 2014 Max BC CSI: 0.226 Load Duration: 1.15 MWFRS Parallel Dist: 0 to h/2 Brg Width = 1.5 Min Reg = -Rep Fac: Yes Max Web CSI: 0.000 Spacing: 24.0 " C&C Dist a: 3.00 ft Bearing B is a rigid surface.

VIEW Ver: 19.02.02.0109.12

#### Lumber

Top chord 2x6 HF #2 Bot chord 2x4 HF #2

Bottom chord checked for 10.00 psf non-concurrent

Loc. from endwall: Any

GCpi: 0.18 Wind Duration: 1.60

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



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Members not listed have forces less than 375#

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FT/RT:4(0)/4(0)

Plate Type(s):

WAVE

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Job Number: 0919181 Cust: R7175 JRef: 1WSI71750011 T13 SEQN: 64580 / EJAC Ply: 1 FROM: MG Qty: 26 Gooseberry Bldg 400 DrwNo: 036.20.1552.08543 Truss Label: J3 / JAK 02/05/2020 7'8"8 7'11"4 7'8"8 2"12 Ⅲ1.5X4 C D FF =2X4(A1)III1.5X4 7'8"8 7'8"8

			711"4	
Loading Criteria (psf) TCLL: 25.00	Wind Criteria Wind Std: ASCE 7-10	Snow Criteria (Pg,Pf in PSF) Pg: 25.0 Ct: 1.1 CAT: II	Defl/CSI Criteria PP Deflection in loc L/defl L/#	▲ Maximum Reactions (lbs)  Gravity  Non-Gravity
TCDL: 12.00 BCLL: 0.00 BCDL: 8.00 Des Ld: 45.00	Speed: 120 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA	Pf: 21.2 Ce: 1.1 Lu: - Cs: 1.00 Snow Duration: 1.15	VERT(LL): NA VERT(CL): NA HORZ(LL): 0.015 F HORZ(TL): 0.027 F	Loc R+ /R- /Rh /Rw /U /RL  B 511 /- /- /274 /33 /128  E 348 /- /- /186 /66 /-  Wind reactions based on MWFRS
NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Mean Height: 28.06 ft TCDL: 6.0 psf BCDL: 4.2 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18	Code / Misc Criteria Bldg Code: IBC 2015 TPI Std: 2014 Rep Fac: Yes FT/RT:4(0)/4(0) Plate Type(s):	Creep Factor: 2.0 Max TC CSI: 0.542 Max BC CSI: 0.434 Max Web CSI: 0.103	B Brg Width = 5.5 Min Req = 1.5 E Brg Width = 1.5 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#
Wind Duration: 1.60	WAVE	VIEW Ver: 19.02.02.0109.12		

2"12

### Lumber

Top chord 2x6 HF #2 Bot chord 2x4 HF #2 Webs 2x4 :HF Standard + HF Stud:

#### Loading

Bottom chord checked for 10.00 psf non-concurrent

#### Wind

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



City of Fortland MAY 15 7000

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Cust: R 7175 .IRef: 1WSI71750011 T14 SEQN: 64582 / HIP Ply: 1 Job Number: 0919181 FROM: MG Gooseberry Bldg 400 DrwNo: 036,20.1552.09026 Qty: 4 Truss Label: HGR / JAK 02/05/2020 5'10"4 101113 11'1"15 5'0"15 5'10"4 2-12 181.5X4 D E 4.24 III 1.5X4 =2X4(A1)11'1"15 - 2'1"7 10'9"7 Loading Criteria (psf) Wind Criteria Snow Criteria (Pg,Pf in PSF) Defl/CSI Criteria ▲ Maximum Reactions (lbs) Non-Gravity TCI I · 25.00 Wind Std: ASCE 7-10 Pg: 25.0 Ct: 1.1 CAT: II PP Deflection in loc L/defl L/# Gravity Speed: 120 mph Loc R+ /Rw /U /RL TCDL: 12.00 Pf: 21.2 VERT(LL): 0.023 H 999 360 Ce: 1.1 Enclosure: Closed BCLL: 0.00 Lu: -Cs: 1.00 VERT(CL): 0.042 H 999 240 640 183 Risk Category: II HORZ(LL): 0.006 G 1-Snow Duration: 1.15 1-BCDL: 8.00 627 /85 EXP: B Kzt: NA Wind reactions based on MWFRS HORZ(TL): 0.011 G. Des Ld: 45.00 Mean Height: 28.03 ft Brg Width = 7.8Min Req = 1.5 Code / Misc Criteria Creep Factor: 2.0 **NCBCLL: 10.00** TCDL: 6.0 psf Brg Width = -Min Reg = -Bldg Code: IBC 2015 Max TC CSI: 0.511 Soffit: 2.00 BCDL: 4.2 psf Bearing I is a rigid surface. Load Duration: 1.15 TPI Std: 2014 Max BC CSI: 0.427 MWFRS Parallel Dist: 0 to h/2 Members not listed have forces less than 375# Rep Fac: Varies by Ld Case Max Web CSI: 0.633 Spacing: 24.0 " C&C Dist a: 3.00 ft Maximum Top Chord Forces Per Ply (lbs) FT/RT:4(0)/4(0) Loc. from endwall: Any Chords Tens.Comp. Plate Type(s): GCpi: 0.18 B-C 137 - 999 Wind Duration: 1.60 WAVE VIEW Ver: 19.02.02.0109.12 Lumber Maximum Bot Chord Forces Per Ply (lbs) Top chord 2x6 HF #2 Chords Tens. Comp. Chords Tens.Comp. Bot chord 2x6 HF #2 Webs 2x4 :HF Standard + HF Stud: 941 - 127 H-G - 128 Special Loads -(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15) Maximum Web Forces Per Ply (lbs) Tens.Comp. TC: From 75 pff at 2 pff at TC: From 0.00 to 137 - 996

2 plf at 0 plf at 2 plf at BC: From -2.83 to 4 plf at 0.00 BC: From 0.00 to 11.16 2 plf at 15 lb Conc. Load at 2.72 TC: 230 lb Conc. Load at 5.55 400 lb Conc. Load at 8.38 TC: 47 lb Conc. Load at 2.72 112 lb Conc. Load at 5.55

Bottom chord checked for 10.00 psf non-concurrent live load.

174 lb Conc. Load at 8.38

#### Wind

Wind loads and reactions based on MWFRS. Right end vertical not exposed to wind pressure.



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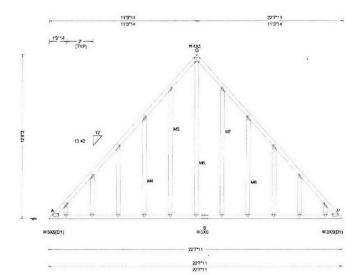


SEON: 32427 / FROM: MG

HIP\_ Ply: 1 Qty: 2 Job Number: 0919181 Gooseberry Bldg 400 Truss Label: FG

Cust: R 7175 JRef: 1WSI71750011 T9

DrwNo: 036.20.1552.08199 BFR / JAK 02/05/2020



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	DefI/CSI Criteria
TCLL: 25.00 TCDL: 12.00 BCLL: 0.00 BCDI 8.00 Des Ld: 45.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NAKzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA	Pg: 25.0 Ct: - CAT: - Pf: 21.2 Ce: - Lu: - Cs: - Snow Duration: -	PP Deflection in loc L/defl L/# VERT(LL): 0.000 360 VERT(CL): 0.000 H 999 240 HORZ(LL): 0.000
		Code / Misc Criteria Bldg Code: IBC 2015 TPI Std: 2014 Rep Fac: No FT/RT:4(0)/4(0) Plate Type(s):	HORZ(TL): 0.000 H - Creep Factor: 2.0  Max TC CSI: 0.001  Max BC CSI: 0.001  Max Web CSI: 0.005
	Wind Duration: NA	WAVE	VIEW Ver. 18.02.01A.0205.19

	_	cravity		No	on-Gra	vity
Loc	R+	/ R-	/Rh	/Rw	/ U	/ RL
A* :	2	1-	/-	1-	/-	1-
Α	Brg V	Vidth = :	271	Min Re	q = -	

#### Lumber

Top chord 2x4 HF #2 Bot chord 2x4 HF #2
Webs 2x4 :HF Standard + HF Stud:
:M4, M5, M6, M7, M8 2x4 HF #2:

#### **Plating Notes**

All plates are 1.5X4 except as noted.

### **Additional Notes**

This "Hip Frame" may be used in place of purlins on the hip plane to brace the flat top chord of hip trusses. See detail drawing HIPFRAME0118, HIPFR1800118, or HIPFRSCAB0619 for additional information. information.



02/20/2020

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For more information see this job's general notes page and these web sites: ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org

City of Fortland WEWEDFORCODE MAY 1 5 2020

> Truss Components of Oregon, Inc P. O. Box 468 CORNELIUS OR 97113 (503) 357-2118 Ext



### Gable Stud Reinforcement Detail

ASCE 7-10: 120 mph Wind Speed, 15' Mean Height, Enclosed, Exposure C, Kzt = 1.00
Dri 100 mph Wind Speed, 15' Mean Height, Partially Enclosed, Exposure C, Kzt = 1.00

Dr: 100 mph Wind Speed, 15' Mean Height, Enclosed, Exposure D, Kzt = 1,00

\*

\*

Refer to chart above for max

		2x4 Vertica	Brace	No	(1) 1x4 L	Brace *	(1) 2×4 *L	. Brace *	(2) 2×4 1L	* Brace **	(1) 2x6 'L	* Brace *	(2) 2x6 L	Brace *
ے	Spacing	Species	Grade	Braces	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B
4		CDE	#1 / #2	4' 10"	8' 2"	8' 6"	9' 8'	10' 1'	11' 6'	12' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	1.5	SPF	#3	4' 7"	7' 9"	8' 3"	9' 7"	9' 11"	11' 5'	11' 10"	14' 0"	14' 0"	14' 0"	14' 0'
D D	U	HF	Stud	4' 7'	7' 8"	8' 2"	9' 7"	9' 11"	11' 5"	11' 10"	14' 0"	14' 0"	14' D"	14' 0'
2	0		Standard	4' 7"	6' 7"	7′ 0′	8' 10"	9′ 5′	11' 5'	11' 10"	13' 10'	14' 0"	14' 0"	14' 0"
a			#1	5′ 0 <b>′</b>	8' 4"	8′ 7 <b>″</b>	9' 10"	10′ 2″	11' 8'	12' 1'	14' 0"	14' 0"	14' 0"	14' 0"
	1	SP	#2	4' 10"	8' 2"	8' 6"	9' 8'	10' 1"	11' 6'	12' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	4		#3	4' 8"	7′ 0″	7′ 5″	9' 3'	9′ 11′	11' 5"	11' 11"	14′ 0″	14' 0"	14' 0"	14' 0"
1	N	DFL	Stud	4' 8"	7' 0"	7′ 5′	9' 3'	9' 11"	11′ 5′	11' 11'	14' 0"	14' 0"	14' 0"	14' 0"
Q			Standard	4' 7"	6' 2'	6' 7"	8, 5,	8' 9"	11' 1"	11' 10"	12' 10'	13' 9"	14' 0"	14' 0'
t Li		CDE	#1 / #2	5′ 6 <b>′</b>	9' 5'	9′ 9″	11′ 1′	11' 6'	13' 2"	13′ 9″	14' D"	14' 0"	14' 0"	14' 0"
4	1-1	SPF	#3	5′ 3 <b>′</b>	9' 3'	9′ 9″	10′ 11″	11' 4"	13′ 0″	13′ 7″	14' 0"	14' 0"	14' 0"	14' 0"
2	Ū	HF	Stud	5′ 3 <b>′</b>	9' 3'	9' 7"	10' 11"	11' 4'	13' 0'	13′ 7″	14' 0"	14' 0"	14' 0"	14' 0'
à	O	1 11	Standard	5′ 3 <b>′</b>	8' 1'	B' 7"	10' 10"	11' 4'	13' 0'	13′ 7″	14′ 0″	14' 0"	14' 0"	14' 0"
1		0.0	#1	5′ 9′	9' 6'	9' 10"	11' 3"	11' 8'	13' 4"	13' 10"	14' 0"	14' 0'	14' 0"	14' 0"
/		SP	#2	5′ 6″	9'.5'	9' 9"	11' 1'	11' 6'	13′ 2′	13′ 9″	14' 0"	14' 0"	14' 0"	14' 0"
	9	D	#3	5′ 5′	8' 6"	9' 1"	11' 0"	11' 5'	13′ 1′	13' 8"	14' 0"	14' 0"	14' 0"	14' 0"
1 a	16	DFL	Stud	5′ <b>5′</b>	8' 6"	9′ 1′	11' 0"	11' 5'	13′ 1″	13′ 8″	14′ 0″	14' 0"	14' 0"	14' 0"
-			Standard	5' 3"	7' 6'	8′ 0″	10' 0"	10′ 9′	13' 0'	13' 7"	14' 0"	14' 0"	14' 0"	14' 0"
Q Q		SPF	#1 / #2.	6' 1"	10' 4'	10' 8"	12' 2"	12' 8"	13' 2"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
O	-	25L	#3	5' 9 <b>'</b>	10' 2"	10' 7"	12' 0'	12' 6"	14' 0'	14' 0"	14' 0"	14' 0'	14′ 0″	14' 0"
U	Ū	HF	Stud	5′ 9 <b>′</b>	10′ 2′	10' 7"	12' 0'	12' 6'	14' 0'	14' 0'	14' 0"	14' 0"	14' 0"	14' 0"
	Ō	111	Standard	5′ 9″	9' 4"	9' 11"	12' 0'	12' 6"	14' D'	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
X		00	#1	6' 4"	10' 6"	10' 10"	12' 4"	12' 10'	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0'
18	1	SP	#2	6' 1"	10′ 4*	10′ 8″	12' 2"	12' 8'	14' 0"	14′ 0″	14' 0"	14′ 0″	14' 0"	14' 0"
M	ù		#3	5' 11"	9′ 10′	10′ 6″	12' 1'	12' 7"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0'
12	1,0	DFL	Stud	5′ 11″	9′ 10′	10′ 6″	12' 1"	12' 7"	14' 0"	14' 0'	14' 0"	14'-0"	14' 0"	14' 0"
			Standard	5′ 9″	8' 8"	9' 3'	11' 7"	12' 5"	14' 0"	14' 0'	14' 0"	14' 0"	14′ 0″	14' 0'

11

Brace

Bracing Group Species and Gradesi Group A Spruce-Pine-Fir Hem-Fir #1 / #2 Standard Stud #3 Stud #3 Standard Douglas Fir-Larch Southern Pinewww #3 #3 Stud Stud Standard Standard Group Bi Hem-Fir #1 & Btr Douglas Fir-Larch Southern Pine\*\*\* #2 1x4 Braces shall be SRB (Stress-Rated Board)

\*\*\*For 1x4 So. Pine use only Industrial 55 or Industrial 45 Stress-Rated Boards. Group B values may be used with these grades.

Gable Truss Detail Notes Wind Load deflection criterion is L/240.

Provide uplift connections for 35 plf over continuous bearing (5 psf TC Dead Load),

Gable end supports load from 4' 0' outlookers with 2' 0' overhang, or 12' plywood overhang.

Attach "L" braces with 10d (0.128'x3.0' min) nails. \* For (1) "L" brace: space nalls at 2" o.c. In 18' end zones and 4' o.c. between zones. \*\*For (2) "L" braces: space nails at 3" b.c. In 18' end zones and 6' o.c. between zones.

"L" bracing must be a minimum of 80% of web

Vertical Length	No Splice	
Less than 4' 0'	1X4 or 2X3	
Greater than 4' 0', but less than 11' 6'	2X4	
Greater than 11' 6"	3X4	

Refer to the Building Designer for conditions

not addressed by this detail. ENGINEE ASCE7-10-GAB12015 83294PF DATE 10/01/14 DRWG A12015ENC101014

Gable Truss

AN ITW COMPANY

13389 Lakefront Drive Earth City, MO 63045-

Diagonal brace options

vertical length may be doubled when diagonal

brace is used. Connect

diagonal brace for 335# at each end. Max web

Vertical length shown

Connect diagonal at

midpoint of vertical web.

in table above

total length is 14'.

## 

2x4 DF-L #2 or better diagonal braces single

or double cut

(as shown) at upper end.

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Alpine, a division of TIV Building Corponents Group Inc. shall not be responsible for any deviation from this drawing, any follure to build the truss in conformance with ANSI/TPI 1, or for handing, shipping, installation b bracing of trusses.

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**OREGON** 

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

Continuous Bearing

# CLR Reinforcing Member Substitution

This detail is to be used when a Continuous Lateral Restraint (CLR) is specified on a truss design but an alternative web reinforcement method is desired.

#### Notes

This detail is only applicable for changing the specified CLR shown on single ply sealed designs to T-reinforcement or 1 -reinforecement or scab reinforcement.

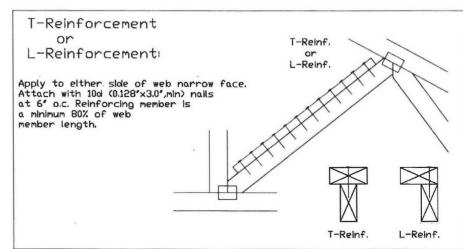
Alternative reinforcement specified in chart below may be conservative. For minimum alternative reinforcement, re-run design with appropriate reinforcement type.

Use scabs instead of L- or T- reinforcement on webs with intersecting truss joints, such as K-web joints, that may interfere with proper application along the narrow face of the web.

Web Member	Specified CLR	Alternative Rein	forecement
Size	Restraint	T- or L- Reinf.	Scab Reinf.
2x3 or 2x4	1 row	2×4	1-2×4
2x3 or 2x4	2 rows	2×6	2-2×4
2x6	1 row	2×4	1-2×6
2×6	2 rows	2×6	2-2×400
2×8 ·	1 row	2×6	1-2×8
2x8	2 rows	2×6	2-2×6(*)

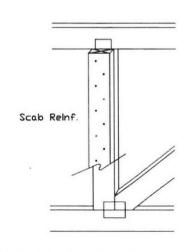
T-reinforcement, L-reinforcement, or scab reinforcement to be same species and grade or better than web member unless specified otherwise on Engineer's sealed design.

CHO Center scab on wide face of web. Apply (1) scab to each or rollian face of web.



### Scab Reinforcements

Apply scab(s) to wide face of web. No more than (1) scab per face. Attach with 10d (0.128'x3.0',min) nails at 6" o.c. Reinforcing member is a minimum 80% of web member length.







13723 Riverport Drive Maryland Heights, MO 63043 NEWARNINGHOUS READ AND FOLLOW ALL MOTES ON THIS DRAWING MICHPORTANTION FURNISH THIS DRAWING TO ALL CONTRACTORS INCLIDING THE INSTALLERS

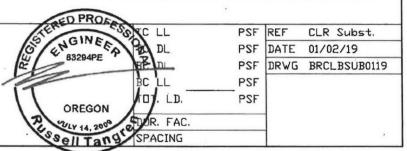
INCHESTANTINE FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.

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Refer to drawings 150A-Z for standard place positions.

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ALPINE: www.alpineitw.com; TPI: www.tpinstorg; SBCA: www.sbcindustry.org; ICD: www.ccsafe.org



Renewal 6/30/2020

## ASCE 7-10: 120 mph, 30' Mean Height, Closed, Exposure C Common Residential Gable End Wind Bracing Requirements - Stiffeners

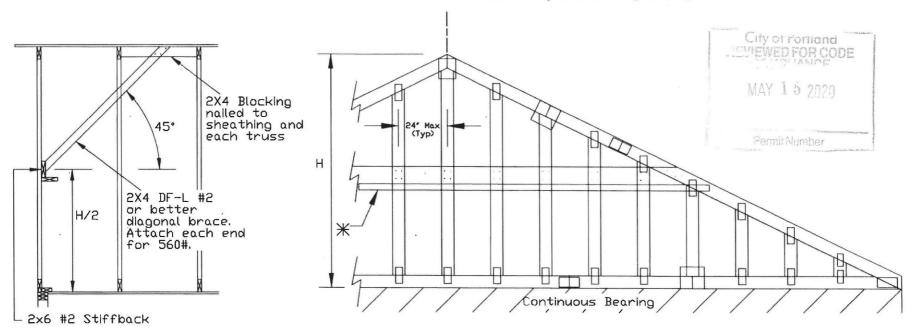
120 mph, 30ft. Mean Hgt, ASCE 7-10, Enclosed, Exp C, or 100 mph, 30ft. Mean Hgt, ASCE 7-10, Enclosed, Exp D, or 100 mph, 30ft. Mean Hgt, ASCE 7-10, Part. Enclosed, Exp C, Kzt = 1.00, Wind TC DL=5.0 psf, Wind BC DL=5.0 psf.

Lateral chord bracing requirements Top: Continuous roof sheathing Bot: Continuous ceiling diaphragm

See Engineer's sealed design referencing this detail for lumber, plates, and other information not shown on this detail.

Nails: 10d box or gun (0.128"x3", min) nails.

- H Less than 4'6" no stud bracing required
- H Greater than 4'6" to 7'6" in length provide a 2x6 stiffback at mid-height and brace stiffback to roof diaphragm every 6'0" (see detail below or refer to DRWG A12030ENC101014).
- H Greater than 7'6" to 12'0" maxi provide a 2x6 stiffback at mid-height and brace to roof diaphragm every 4'0' (see detail below or refer to DRWG A12030ENC101014).
- ★ Optional 2x L-reinforcement attached to stiffback with 10d box or gun (0.128" x 3", min.) nails @ 6" o.c.



attached to each Stud w/ (4) 10d box or gun (0.123" X 3", min.) nails.



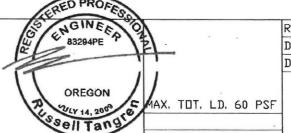
13389 Lakefront Drive Earth City, MO 63045 MENTARKINGHEM READ AND FOLLOW ALL NOTES ON THUS DRAVING MENDAPORTANTHEN FURNISH THIS DRAVING TO ALL CONTRACTORS DICLUDING THE DISTALLERS.

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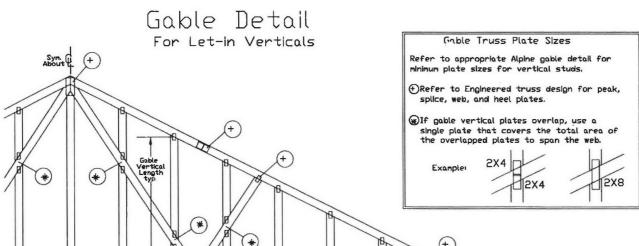


DATE 10/01/14 DRWG GABRST101014

GE WHALER

MAX. SPACING

Renewal 6/30/2020



Provide connections for uplift specified on the engineered truss design.

Attach each 'T' reinforcing member with

End Driven Nails

10d Common (0.148"x 3.",min) Nails at 4" o.c. plus

(4) nails in the top and bottom chords.

Toenalled Nails

10d Common (0.148'x3',min) Toenalls at 4' o.c. plus

(4) toenalls in the top and bottom chords.

This detail to be used with the appropriate Alpine gable detail for ASCE

ASCE 7-05 Gable Detail Drawings

A13015051014, A12015051014, A11015051014, A10015051014, A14015051014, A13030051014, A12030051014, A11030051014, A10030051014, A14030051014

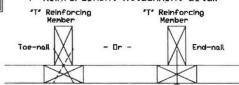
ASCE 7-10 & ASCE 7-16 Gable Detail Drawings

A11515ENC10011B, A12015ENC10011B, A14015ENC10011B, A16015ENC10011B, A18015ENC100118, A20015ENC100118, A20015END100118, A20015PED100118, A11530ENC100118, A12030ENC100118, A14030ENC100118, A16030ENC100118, A18030ENC100118, A20030ENC10011B, A20030END100118, A20030PED100118, S11515ENC100118, S12015ENC100118, S14015ENC100118, S16015ENC100118, \$18015ENC100118, \$20015ENC100118, \$20015END100118, \$20015PED100118, \$11530ENC10011B, \$12030ENC10011B, \$14030ENC10011B, \$16030ENC10011B, \$18030ENC100118, \$20030ENC100118, \$20030END100118, \$20030PED100118

See appropriate Alpine gable detail for maximum unreinforced gable vertical length.



"T' Reinforcement Attachment Detail



To convert from "L" to "T" reinforcing members, multiply "T" increase by length (based on appropriate Alpine gable detail),

Maximum allowable "T" reinforced gable vertical length is 14' from top to bottom chord.

"I" reinforcing member material must match size, specie, and grade of the "L" reinforcing member.

Web Length Increase w/ "T" Brace

"T" Reinf.	"T"
Mbr. Size	Increase
2x4	30 %
2x6	20 %

Example

ASCE 7-10 Wind Speed = 120 mph Mean Roof Height = 30 ft, Kzt = 1.00 Gable Vertical = 24°o.c. SP #3 "T" Reinforcing Member Size = 2x4 "T" Brace Increase (From Above) = 30% = 1.30 (1) 2x4 "L" Brace Length = 8' 7"

Maximum 'T' Reinforced Gable Vertical Length 1.30 x B' 7" = 11' 2"

REF

LET-IN VERT

DATE 01/02/2018 DRWG GBLLETIN0118

AN ITW COMPANY

Rigid Sheathing

Ceiling

4 Nalls

Nolls

Spaced At

4 Nall

Reinforcing Member

Gable

Truss

13723 Riverport Drive Suite 200 Maryland Heights, MO 63043

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MAX. TOT. LD. 60 PSF DUR: FAC. ANY MAX. SPACING 24.0'

