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02/23/2026



MISSOURI COA #2005000817

Site Information:	Page 1:
Customer: Kodiak – Premier Building Supply	Job Number: PM000108
Job Description: Customer - Clayton Properties Plan Name - Carolina Elevation - Modern Prairie	
Address: 1513 SE Rising Sun Dr, Lee's Summit, MO 64082	

Job Engineering Criteria:		
Building Code: IRC 2018	Design Standard: TPI 2014	IntelliVIEW Version: 25.02.00B
Loading Standard: ASCE 7-16	Design Methodology: ASD	JRef #: 1YHW96460004
Wind: Wind Speed (mph): 115	Exposure: B	Design Loading (psf): 45
Building Type: Part Enc.	Risk Category: II	
Snow: Pg (psf): NA	Pf(ASD) (psf): NA	
W2::	Risk Category: II	

This package contains general notes pages, 58 truss drawing(s) and 4 detail(s).

Item	Drawing Number	Truss
1	054.26.1301.04405	A1
3	054.26.1301.06236	A3
5	054.26.1325.45911	A5
7	054.26.1301.07095	A7
9	054.26.1301.07668	A9
11	054.26.1325.45950	A11
13	054.26.1301.04857	A13
15	054.26.1301.05556	A15
17	054.26.1301.04984	A17
19	054.26.1325.45922	B1
21	054.26.1301.04344	C5
23	054.26.1301.05352	C7
25	054.26.1301.06556	D2
27	054.26.1301.04832	E2
29	054.26.1301.04928	J13
31	054.26.1301.05978	J15
33	054.26.1325.45921	J17
35	054.26.1301.05407	J21
37	054.26.1301.06416	J23
39	054.26.1301.05435	J25
41	054.26.1301.06073	J35
43	054.26.1301.04280	J37
45	054.26.1301.06726	J40

Item	Drawing Number	Truss
2	054.26.1301.05481	A2
4	054.26.1301.04707	A4
6	054.26.1301.05193	A6
8	054.26.1301.07636	A8
10	054.26.1301.04435	A10
12	054.26.1301.05681	A12
14	054.26.1301.04901	A14
16	054.26.1301.05045	A16
18	054.26.1301.04954	A18
20	054.26.1301.07588	B2
22	054.26.1301.06514	C6
24	054.26.1301.04452	D1
26	054.26.1301.05503	E1
28	054.26.1301.05914	J6
30	054.26.1301.07245	J14
32	054.26.1301.07045	J16
34	054.26.1301.06440	J18
36	054.26.1301.06925	J22
38	054.26.1301.07493	J24
40	054.26.1301.06873	J34
42	054.26.1301.05979	J36
44	054.26.1301.05934	J39
46	054.26.1301.07125	J42

**RELEASE FOR CONSTRUCTION
 AS NOTED ON PLANS REVIEW
 DEVELOPMENT SERVICES
 LEE'S SUMMIT, MISSOURI
 03/03/2026 9:47:47**



02/23/2026



MISSOURI COA #2005000817

Site Information:	Page 2:
Customer: Kodiak – Premier Building Supply	Job Number: PM000108
Job Description: Customer - Clayton Properties Plan Name - Carolina Elevation - Modern Prairie	
Address:	

Item	Drawing Number	Truss
47	054.26.1301.06472	LAY1
49	054.26.1301.05406	LAY3
51	054.26.1301.04345	M1
53	054.26.1301.06544	M3
55	054.26.1301.06004	M5
57	054.26.1301.07060	V1
59	BRCLBSUB0119	
61	VAL180160118	

Item	Drawing Number	Truss
48	054.26.1301.06030	LAY2
50	054.26.1301.04186	LAY4
52	054.26.1301.06945	M2
54	054.26.1301.06504	M4
56	054.26.1301.04515	M6
58	054.26.1301.07399	V2
60	HIPFRAME0623	
62	160TL	

**RELEASE FOR CONSTRUCTION
 AS NOTED ON PLANS REVIEW
 DEVELOPMENT SERVICES
 LEE'S SUMMIT, MISSOURI
 03/03/2026 9:47:47**

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 www.icc-es.org.

Bearing Information:

The bearing area factor, C_b , is considered for the allowable capacity of solid sawn wood bearings supporting trusses that are located a minimum of 3" from the end of the lumber piece.

General Notes (continued)

Coated Lumber:

Coated lumber must be properly re-dried and maintained below 19% or less moisture level through all stages of construction and usage. Coated lumber has no adjustments to lumber properties. Coated lumber may be more brittle than uncoated lumber. Special handling care must be taken to prevent breakage during all handling activities. Refer to manufacturer literature, specifications, and code evaluation reports for restrictions, details, and requirements.

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.

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.

C = Coated lumber.

C-AT = AtTEK coated lumber.

C-FX = FX Lumber Guard coated lumber.

C -TE = TechWood 4400 coated lumber.

CL = Certified lumber.

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

FRT = Fire Retardant Treated lumber.

FRT-BF = Borafire Fire Retardant Treated lumber

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

FRT-DC = Dricon Fire Retardant Treated lumber.

FRT-FP = FirePRO Fire Retardant Treated lumber.

FRT-FL = FlamePRO Fire Retardant Treated lumber.

FRT-FT = FlameTech Fire Retardant Treated lumber.

FRT-ON = OnWood Fire Retardant Treated lumber.

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

FRT-PR = ProWood 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 all load cases.

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

Max Web CSI = Maximum bending and axial Combined Stress Index for Webs for 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 = maximum 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).

General Notes (continued)

Key to Terms (continued):

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.

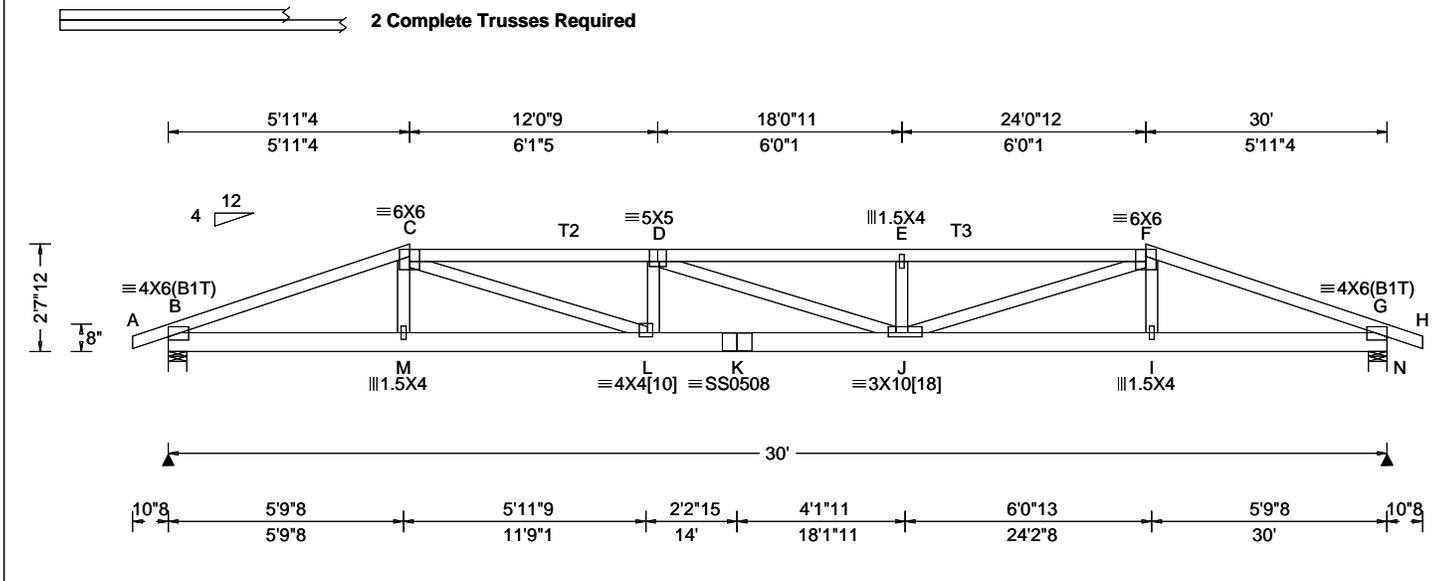
W = Width of non-hanger bearing, in inches.

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.: 155 Harlem Ave, North Building, 4th Floor, Glenview, IL 60025; www.alpineitw.com.
4. TPI: Truss Plate Institute, 2670 Crain Highway, Suite 203, Waldorf, MD 20601; www.tpinst.org.
5. SBCA: Wood Truss Council of America, 6300 Enterprise Lane, Madison, WI 53719; www.sbcacomponents.com



Loading Criteria (psf)	
TCLL:	25.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	45.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.15
Spacing:	24.0 "

Wind Criteria	
Speed:	115 mph
Risk Category:	II
Enclosure:	Part. Enc.
EXP:	B Kzt: NA
TCDL:	6.0 psf
BCDL:	6.0 psf
Mean Height:	20.09 ft
MWFRS Parallel Dist:	0 to h/2
C&C Dist a:	3.00 ft
Loc. from endwall:	not in 4.50 ft
GCpi:	0.55
Wind Duration:	1.60

Snow Criteria (Pg,Pf in PSF)	
Pg: NA	Ct: NA CAT: NA
Pf(ASD): NA	Ce: NA Lu: NA
Cs: NA	Snow Duration: NA
Building Code:	
IRC 2018	
Load Std: ASCE 7-16	
TPI Std: 2014	
Rep Fac: Varies by Ld Case	
FT/RT: 20(0)/10(0)	
Plate Type(s):	
WAVE, 18SS	

Defl/CSI Criteria	
PP Deflection in loc L/defl L/#	
VERT(LL): 0.304 E 999 285	
VERT(CL): 0.551 E 647 285	
HORZ(LL): 0.042 C - -	
HORZ(TL): 0.076 C - -	
Creep Factor:	2.0
Max TC CSI:	0.709
Max BC CSI:	0.387
Max Web CSI:	0.459
VIEW Ver:	25.02.00B.1125.14

▲ Maximum Reactions (lbs)					
Gravity			Non-Gravity		
Loc	R+ / R-	/ Rh	/ Rw	/ U	/ RL
B	2096 /-	/-	/-	/361	/-
N	2097 /-	/-	/-	/361	/-
Wind reactions based on MWFRS					
B Brg Wid = 5.5 Min Req = 1.5 (Support)					
N Brg Wid = 5.5 Min Req = 1.5 (Support)					
Bearings B & N Fcperp = 425psi.					
Members not listed have forces less than 375#					
Maximum Top Chord Forces Per Ply (lbs)					
Chords	Tens.Comp.	Chords	Tens.	Tens.	Comp.
B - C	444 -2539	E - F	745	-4162	
C - D	734 -4131	F - G	445	-2546	
D - E	744 -4159				

Lumber
Top chord: 2x4 SP #2; T2,T3 2x4 SP 2400f-2.0E;
Bot chord: 2x6 SP 2400f-2.0E;
Webs: 2x4 SP #2;

Nailnote
Nail Schedule: 0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @12.00" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads
----- (Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 71 plf at -0.88 to 71 plf at 0.00
TC: From 36 plf at 0.00 to 36 plf at 30.00
TC: From 71 plf at 30.00 to 71 plf at 30.88
BC: From 10 plf at 0.00 to 10 plf at 30.00
TC: 196 lb Conc. Load at 6.00, 8.00,10.00,12.00
14.00,16.00,18.00,20.00,22.00,24.00
BC: 74 lb Conc. Load at 6.00, 8.00,10.00,12.00
14.00,16.00,18.00,20.00,22.00,24.00

Purlins
In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:
Chord Spacing(in oc) Start(ft) End(ft)
TC 24 5.94 24.06
BC 120 0.30 29.70
Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Snow
Overhang designed for 2.00X TC LL.

Additional Notes
Top Chord overhang(s) may be field trimmed.

Maximum Bot Chord Forces Per Ply (lbs)			
Chords	Tens.Comp.	Chords	Tens. Comp.
B - M	2393 -419	K - J	4191 -756
M - L	2399 -423	J - I	2404 -424
L - K	4191 -756	I - G	2400 -419
Maximum Web Forces Per Ply (lbs)			
Webs	Tens.Comp.	Webs	Tens. Comp.
C - L	1847 -331	E - J	166 -466
L - D	166 -467	J - F	1869 -341

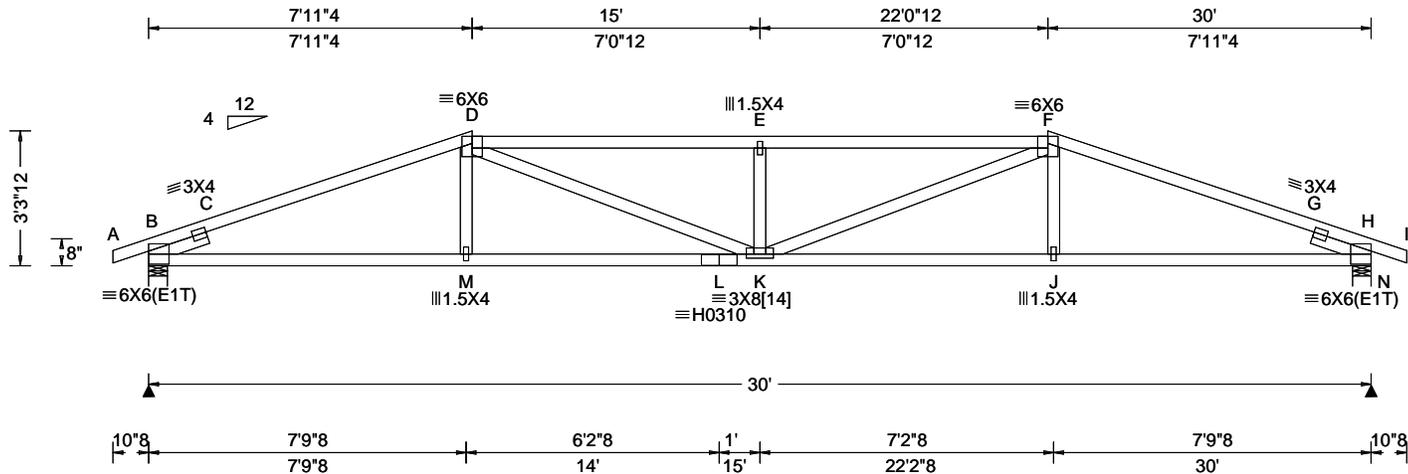
Plate Shift Table					
JT No	Plate Size	Lateral Shift	Chord Bite	JT No	Plate Size
[10]	4X4	1.50	R 1.25	[18]	3X10
					4.25 R 1.25

Wind
Wind loads and reactions based on MWFRS.
Wind loading based on both gable and hip roof types.



****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 continuous lateral restraint (CLR), installed with diagonal bracing installed on the CLR per BCSI sections B3, B7, or B10, 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. Refer to job's General Notes page for additional information.
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 trusses. A 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 these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org





Loading Criteria (psf) TCLL: 25.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Criteria Speed: 115 mph Risk Category: II Enclosure: Part. Enc. EXP: B Kzt: NA TCDL: 6.0 psf BCDL: 6.0 psf Mean Height: 20.43 ft MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.55 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf(ASD): NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IRC 2018 Load Std: ASCE 7-16 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.209 E 999 288 VERT(CL): 0.383 E 940 288 HORZ(LL): 0.048 H - - HORZ(TL): 0.087 H - - Creep Factor: 2.0 Max TC CSI: 0.508 Max BC CSI: 0.384 Max Web CSI: 0.313 VIEW Ver: 25.02.00B.1125.14	▲ Maximum Reactions (lbs) Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 1429 /- /- /753 /106 /21 N 1429 /- /- /753 /106 /- Wind reactions based on MWFRS B Brg Wid = 5.5 Min Req = 1.8 (Support) N Brg Wid = 5.5 Min Req = 1.8 (Support) Bearings B & N Fcperp = 425psi. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 796 -3144 E - F 852 -3647 C - D 634 -3073 F - G 634 -3073 D - E 852 -3647 G - H 796 -3144
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Lumber
Top chord: 2x4 SP 2400f-2.0E;
Bot chord: 2x4 SP 2400f-2.0E;
Webs: 2x4 SP #2;
Lt Slider: 2x4 SP #2; block length = 1.500'
Rt Slider: 2x4 SP #2; block length = 1.500'

Additional Notes
Top Chord overhang(s) may be field trimmed.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - M	2853 -530	K - J	2845 -537
M - L	2845 -534	J - H	2853 -533
L - K	2845 -534		

Plate Shift Table

JT No	Plate Size	Lateral Shift	Chord Bite	JT No	Plate Size	Lateral Shift	Chord Bite
[14]	3X8	S	1.25				

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
D - K	871 -278	K - F	871 -278
E - K	282 -548		

Purlins
In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	24	7.94	22.06
BC	120	0.00	30.00

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

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

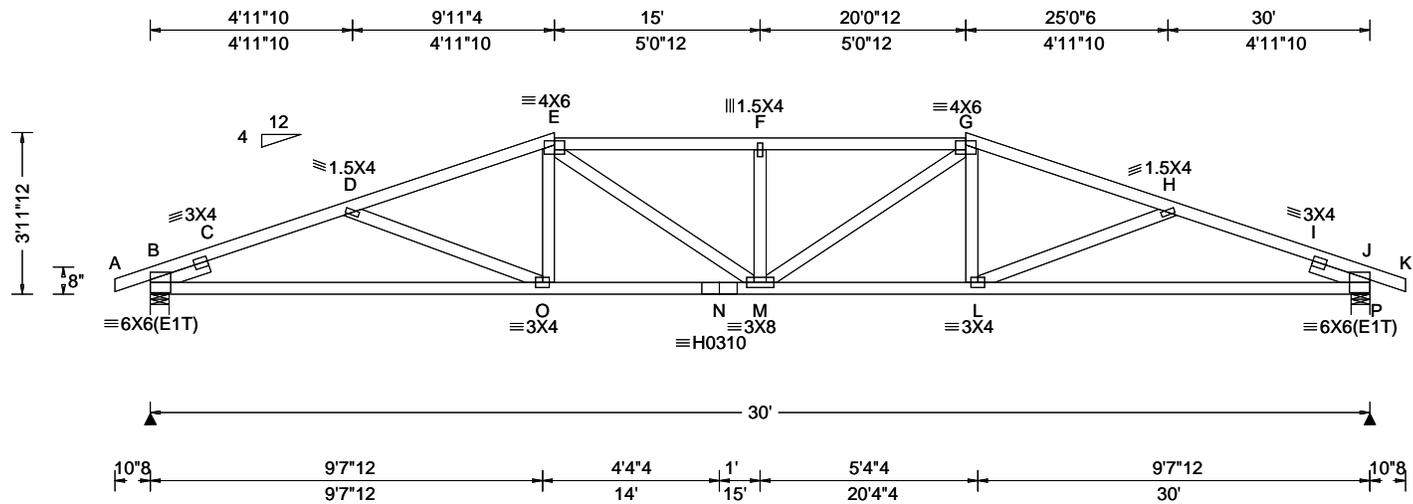
Wind
Wind loads based on MWFRS with additional C&C member design.
Wind loading based on both gable and hip roof types.

Snow
Overhang designed for 2.00X TC LL.



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For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org





Loading Criteria (psf)

TCLL: 25.00
 TCDL: 10.00
 BCLL: 0.00
 BCDL: 10.00
 Des Ld: 45.00
 NCBCLL: 10.00
 Soffit: 0.00
 Load Duration: 1.15
 Spacing: 24.0 "

Wind Criteria

Speed: 115 mph
 Risk Category: II
 Enclosure: Part. Enc.
 EXP: B Kzt: NA
 TCDL: 6.0 psf
 BCDL: 6.0 psf
 Mean Height: 20.76 ft
 MWFRS Parallel Dist: h/2 to h
 C&C Dist a: 3.00 ft
 Loc. from endwall: not in 9.00 ft
 GCpi: 0.55
 Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)

Pg: NA Ct: NA CAT: NA
 Pf(ASD): NA
 Ce: NA Lu: NA
 Cs: NA Snow Duration: NA

Building Code:
 IRC 2018
 Load Std: ASCE 7-16
 TPI Std: 2014
 Rep Fac: Yes
 FT/RT:20(0)/10(0)
 Plate Type(s):
 WAVE, HS

Defl/CSI Criteria

PP Deflection in loc L/defl L/#
 VERT(LL): 0.204 F 999 288
 VERT(CL): 0.366 F 984 288
 HORZ(LL): 0.048 J - -
 HORZ(TL): 0.085 J - -
 Creep Factor: 2.0
 Max TC CSI: 0.505
 Max BC CSI: 0.400
 Max Web CSI: 0.191

VIEW Ver: 25.02.00B.1125.14

Maximum Reactions (lbs)

Loc	Gravity			Non-Gravity		
	R+	/R-	/Rh	/Rw	/U	/RL
B	1429	-	-	1755	42	27
P	1429	-	-	1755	42	-

Wind reactions based on MWFRS
 B Brg Wid = 5.5 Min Req = 1.8 (Support)
 P Brg Wid = 5.5 Min Req = 1.8 (Support)
 Bearings B & P Fcperp = 425psi.
 Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - C	639 -3160	F - G	655 -2920
C - D	612 -3104	G - H	539 -2778
D - E	539 -2778	H - I	612 -3104
E - F	655 -2920	I - J	639 -3160

Lumber

Top chord: 2x4 SP #2;
 Bot chord: 2x4 SP 2400f-2.0E;
 Webs: 2x4 SP #2;
 Lt Slider: 2x4 SP #2; block length = 1.500'
 Rt Slider: 2x4 SP #2; block length = 1.500'

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	24	9.94	20.06
BC	120	0.00	30.00

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Loading

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

Wind

Wind loads based on MWFRS with additional C&C member design.
 Wind loading based on both gable and hip roof types.

Snow

Overhang designed for 2.00X TC LL.

Additional Notes

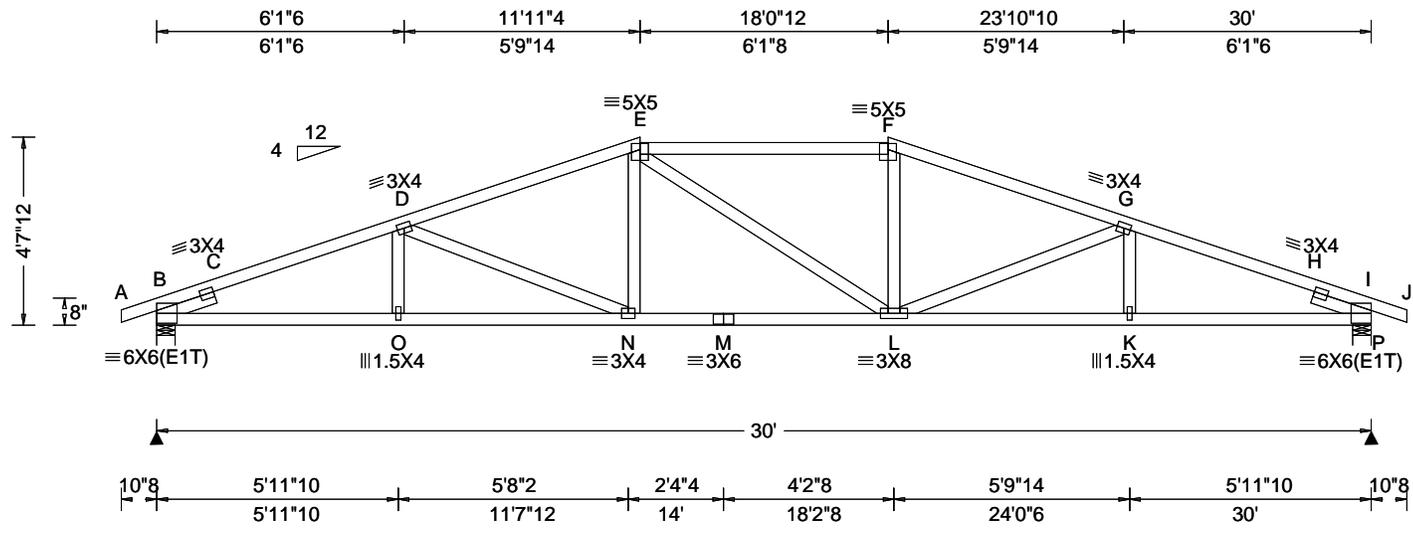
Top Chord overhang(s) may be field trimmed.



MISSOURI COA #2005000817
 02/23/2026

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 RELEASE FOR CONSTRUCTION
 AS NOTED BY PLANS REVIEW
 DEVELOPMENT SERVICES
 LEE'S SUMMIT, MISSOURI
 03/03/2026 9:47:48



Loading Criteria (psf) TCCL: 25.00 TCDL: 10.00 BCCL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Criteria Speed: 115 mph Risk Category: II Enclosure: Part. Enc. EXP: B Kzt: NA TCDL: 6.0 psf BCDL: 6.0 psf Mean Height: 21.09 ft MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.55 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf(ASD): NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IRC 2018 Load Std: ASCE 7-16 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.193 E 999 288 VERT(CL): 0.354 N 999 288 HORZ(LL): 0.066 I - - HORZ(TL): 0.120 I - - Creep Factor: 2.0 Max TC CSI: 0.599 Max BC CSI: 0.831 Max Web CSI: 0.362 VIEW Ver: 25.02.00B.1125.14	▲ Maximum Reactions (lbs) Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 1429 -/ - /758 /42 /33 P 1429 -/ - /758 /42 /- Wind reactions based on MWFRS B Brg Wid = 5.5 Min Req = 1.8 (Support) P Brg Wid = 5.5 Min Req = 1.8 (Support) Bearings B & P Fcperp = 425psi. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 476 -3138 F - G 469 -2543 C - D 478 -3072 G - H 477 -3072 D - E 469 -2552 H - I 475 -3138 E - F 474 -2348					
				Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - O 2856 -395 M - L 2345 -322 O - N 2852 -397 L - K 2852 -400 N - M 2345 -322 K - I 2856 -397 Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. D - N 84 -527 L - G 84 -534					

Lumber
 Top chord: 2x4 SP #2;
 Bot chord: 2x4 SP #2;
 Webs: 2x4 SP #2;
 Lt Slider: 2x4 SP #2; block length = 1.500'
 Rt Slider: 2x4 SP #2; block length = 1.500'

Purlins
 In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:
 Chord Spacing(in oc) Start(ft) End(ft)
 TC 24 11.94 18.06
 BC 120 0.00 30.00
 Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

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

Wind
 Wind loads based on MWFRS with additional C&C member design.
 Wind loading based on both gable and hip roof types.

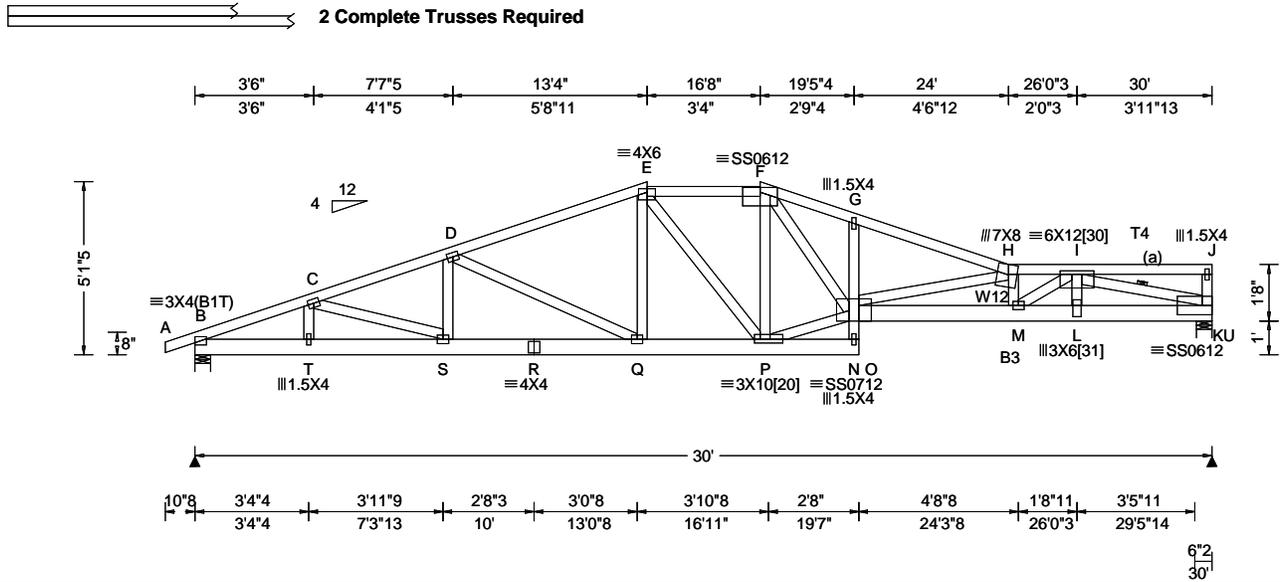
Snow
 Overhang designed for 2.00X TC LL.

Additional Notes
 Top Chord overhang(s) may be field trimmed.



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Loading Criteria (psf) TCCL: 25.00 TCCL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Criteria Speed: 115 mph Risk Category: II Enclosure: Part. Enc. EXP: B Kzt: NA TCCL: 6.0 psf BCDL: 6.0 psf Mean Height: 21.33 ft MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.55 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf(ASD): NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IRC 2018 Load Std: ASCE 7-16 TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.302 G 999 286 VERT(CL): 0.544 G 658 286 HORZ(LL): 0.061 K - - HORZ(TL): 0.109 K - - Creep Factor: 2.0 Max TC CSI: 0.566 Max BC CSI: 0.680 Max Web CSI: 0.793 VIEW Ver: 25.02.00B.1125.14	▲ Maximum Reactions (lbs) Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 1897 /- /- /- /154 /42 U 4398 /- /- /- /296 /- Wind reactions based on MWFRS B Brg Wid = 5.5 Min Req = 1.5 (Support) U Brg Wid = 5.5 Min Req = 3.1 (Support) Bearings B & U Fcperp = 425psi. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.					
				B - C 140 - 1851 F - G 246 - 3588 C - D 158 - 2117 G - H 249 - 3647 D - E 139 - 1869 H - I 398 - 6394 E - F 134 - 1908 Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - T 1719 - 106 Q - P 1738 - 104 T - S 1734 - 109 N - M 6520 - 397 S - R 1995 - 128 M - L 5901 - 348 R - Q 1995 - 128 L - K 5901 - 348 Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. F - P 74 - 955 H - M 66 - 542 F - N 2464 - 159 M - I 616 - 41 P - N 1950 - 114 I - L 1510 - 63 N - H 187 - 3167 I - K 372 - 6162					

Lumber
 Top chord: 2x4 SP #2; T4 2x4 SP 2400f-2.0E;
 Bot chord: 2x6 SP #2; B3 2x6 SP 2400f-2.0E;
 Webs: 2x4 SP #2; W12 2x4 SP 2400f-2.0E;

Bracing
 (a) Continuous lateral restraint equally spaced on member.

Nailnote
 Nail Schedule: 0.128"x3", min. nails
 Top Chord: 1 Row @ 12.00" o.c.
 Bot Chord: 1 Row @ 11.00" o.c.
 Webs : 1 Row @ 4" o.c.
 Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads
 -----(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
 TC: From 71 plf at -0.88 to 71 plf at 30.00
 BC: From 20 plf at 0.00 to 20 plf at 26.02
 BC: From 10 plf at 26.02 to 10 plf at 30.00
 BC: 3472 lb Conc. Load at 26.02
 BC: 67 lb Conc. Load at 30.00

Purlins
 In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	24	13.33	16.67
TC	24	24.00	30.00
BC	120	0.30	19.44
BC	120	19.45	30.00

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Wind
 Wind loads and reactions based on MWFRS.
 Right end vertical exposed to wind pressure.
 Deflection meets L/180.
 Wind loading based on both gable and hip roof types.

Plating Notes
 All plates are 3X4 except as noted.

Plate Shift Table

JT No	Plate Size	Lateral Shift	Chord Bite	JT No	Plate Size	Lateral Shift	Chord Bite
[20]	3X10	4.50	R 1.25	[30]	6X12	S	1.25
[31]	3X6	S	4.00				



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SEQN: 11517 / FROM: Page 2 of 2	NEJA Ply: 2 Qty: 1	Job Number: PM000108 Customer - Clayton Properties Plan Name - Carolina Elevation - Modern Prairie Truss Label: A5	Cust: R 9646 JRef: 1YHW96460004 T19 / DrwNo: 054.26.1325.45911 / BM 02/23/2026
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Snow

Overhang designed for 2.00X TC LL.

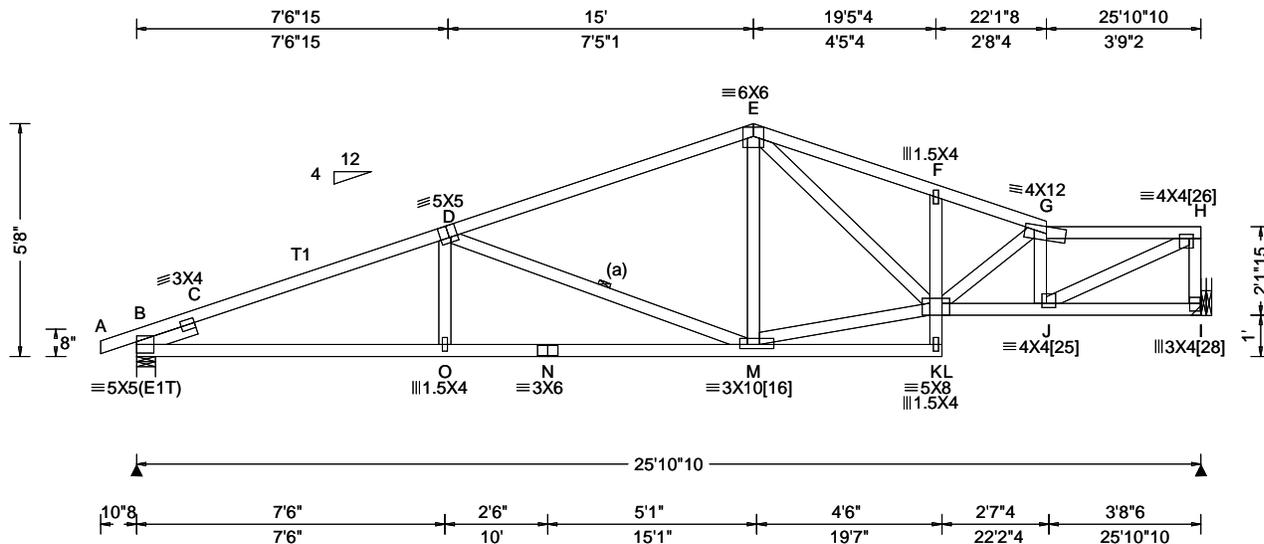
Additional Notes

Top Chord overhang(s) may be field trimmed.



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Loading Criteria (psf) TCLL: 25.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Criteria Speed: 115 mph Risk Category: II Enclosure: Part. Enc. EXP: B Kzt: NA TCDL: 6.0 psf BCDL: 6.0 psf Mean Height: 21.60 ft MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.55 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf(ASD): NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IRC 2018 Load Std: ASCE 7-16 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.121 D 999 248 VERT(CL): 0.221 D 999 248 HORZ(LL): 0.040 I - - HORZ(TL): 0.072 I - - Creep Factor: 2.0 Max TC CSI: 0.775 Max BC CSI: 0.809 Max Web CSI: 0.537 VIEW Ver: 25.02.00B.1125.14	▲ Maximum Reactions (lbs) Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 1242 /- /- /658 /- /84 I 1179 /- /- /642 /20 /- Wind reactions based on MWFRS B Brg Wid = 5.5 Min Req = 1.6 (Support) I Brg Wid = - Min Req = - Bearing B Fcperp = 425psi. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 474 -2597 E - F 398 -2222 C - D 310 -2531 F - G 360 -2256 D - E 257 -1606 G - H 325 -1977					
				Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - O 2342 -328 N - M 2336 -331 O - N 2336 -331 K - J 1979 -325 Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. D - M 154 -963 J - H 2189 -357 E - K 872 -171 G - J 229 -1026 M - K 1423 -184 H - I 232 -1136					

Lumber
 Top chord: 2x4 SP #2; T1 2x4 SP 2400f-2.0E;
 Bot chord: 2x4 SP #2;
 Webs: 2x4 SP #2;
 Lt Slider: 2x4 SP #2; block length = 1.500'

Bracing
 (a) Continuous lateral restraint equally spaced on member.

Plate Shift Table

JT	Plate	Lateral	Chord	JT	Plate	Lateral	Chord
No	Size	Shift	Bite	No	Size	Shift	Bite
[16]	3X10	4.25	R 1.25	[25]	4X4	2.75	R 1.25
[26]	4X4	1.25	R 1.25	[28]	3X4	S	2.25

Wind
 Wind loads based on MWFRS with additional C&C member design.
 Right end vertical not exposed to wind pressure.
 Wind loading based on both gable and hip roof types.

Snow
 Overhang designed for 2.00X TC LL.

Additional Notes
 Top Chord overhang(s) may be field trimmed.

Purlins
 In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	24	22.13	25.89
BC	120	0.00	19.44
BC	77	19.45	25.89

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

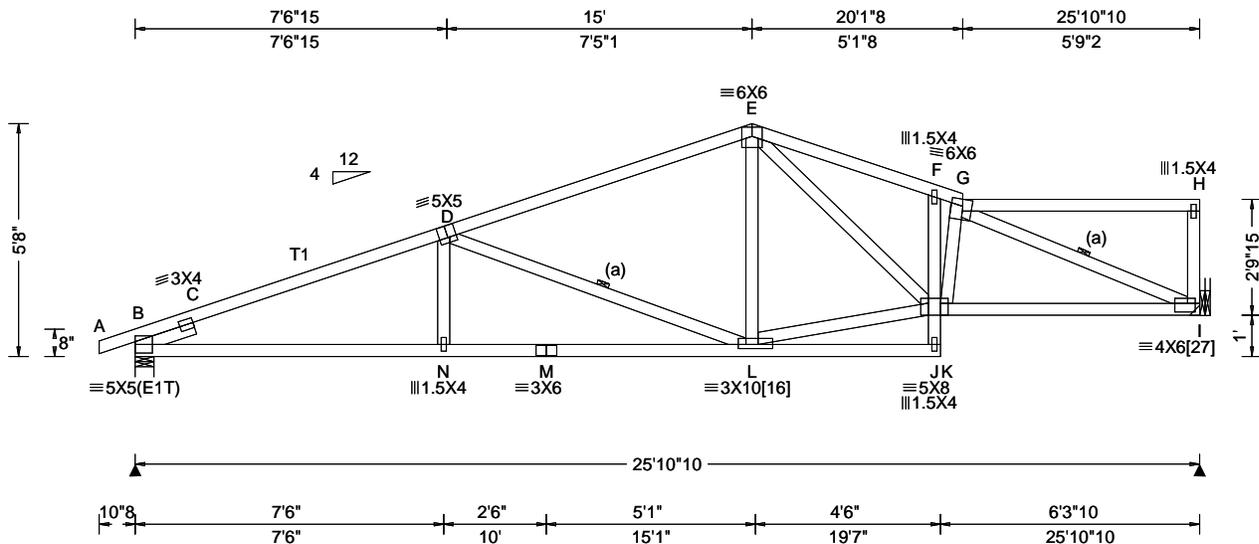
Hangers / Ties
 (J) Hanger Support Required, by others

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



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Loading Criteria (psf) TCLL: 25.00 TCCL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Criteria Speed: 115 mph Risk Category: II Enclosure: Part. Enc. EXP: B Kzt: NA TCCL: 6.0 psf BCDL: 6.0 psf Mean Height: 21.60 ft MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.55 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf(ASD): NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IRC 2018 Load Std: ASCE 7-16 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.124 D 999 248 VERT(CL): 0.227 D 999 248 HORZ(LL): 0.049 I - - HORZ(TL): 0.089 I - - Creep Factor: 2.0 Max TC CSI: 0.777 Max BC CSI: 0.808 Max Web CSI: 0.483 VIEW Ver: 25.02.00B.1125.14	▲ Maximum Reactions (lbs) Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 1242 /- /- /657 /- /94 I 1179 /- /- /641 /37 /- Wind reactions based on MWFRS B Brg Wid = 5.5 Min Req = 1.6 (Support) I Brg Wid = - Min Req = - Bearing B Fcperp = 425psi. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 478 -2597 E - F 439 -2230 C - D 323 -2532 F - G 450 -2349 D - E 272 -1606					
				Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - N 2342 -364 M - L 2336 -366 N - M 2336 -366 J - I 2187 -430 Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. D - L 152 -964 L - J 1430 -215 E - J 881 -206 G - I 466 -2367					

Lumber
 Top chord: 2x4 SP #2; T1 2x4 SP 2400f-2.0E;
 Bot chord: 2x4 SP #2;
 Webs: 2x4 SP #2;
 Lt Slider: 2x4 SP #2; block length = 1.500'

Bracing
 (a) Continuous lateral restraint equally spaced on member.

Plate Shift Table

JT No	Plate Size	Lateral Shift	Chord Bite	JT No	Plate Size	Lateral Shift	Chord Bite
[16]	3X10	4.25	R 1.25	[27]	4X6	2.25	R 2.50

Purlins
 In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	24	20.13	25.89
BC	120	0.00	19.44
BC	77	19.45	25.89

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Hangers / Ties
 (J) Hanger Support Required, by others

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

Snow
 Overhang designed for 2.00X TC LL.

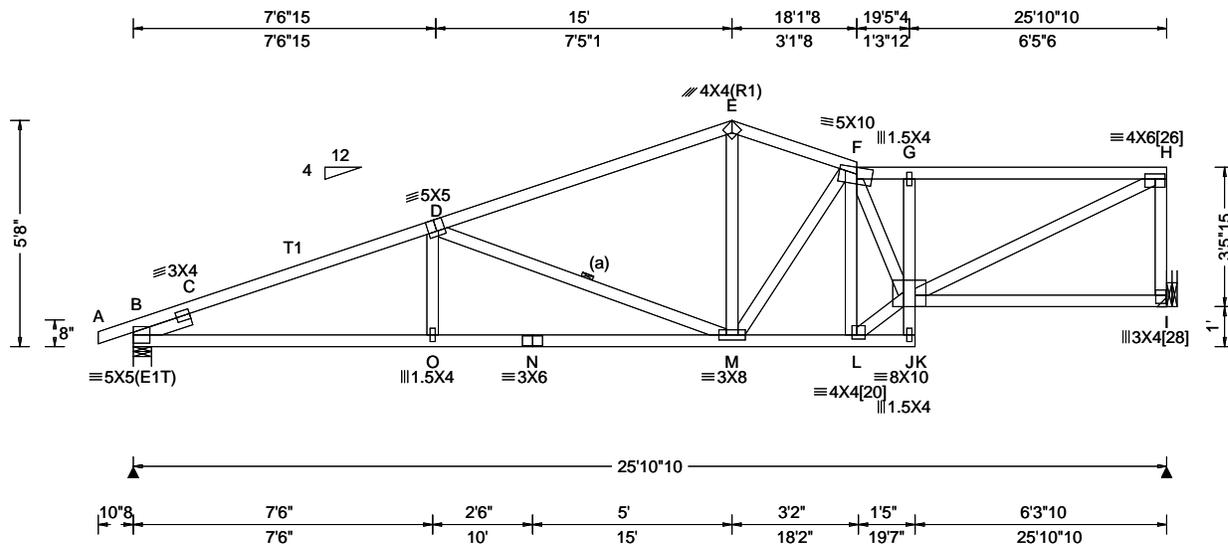
Wind
 Wind loads based on MWFRS with additional C&C member design.
 Right end vertical not exposed to wind pressure.
 Wind loading based on both gable and hip roof types.

Additional Notes
 Top Chord overhang(s) may be field trimmed.



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Loading Criteria (psf) TCLL: 25.00 TCCL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Criteria Speed: 115 mph Risk Category: II Enclosure: Part. Enc. EXP: B Kzt: NA TCCL: 6.0 psf BCDL: 6.0 psf Mean Height: 21.60 ft MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.55 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf(ASD): NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IRC 2018 Load Std: ASCE 7-16 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.123 D 999 248 VERT(CL): 0.226 D 999 248 HORZ(LL): 0.041 I - - HORZ(TL): 0.074 I - - Creep Factor: 2.0 Max TC CSI: 0.902 Max BC CSI: 0.808 Max Web CSI: 0.528 VIEW Ver: 25.02.00B.1125.14	▲ Maximum Reactions (lbs) Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 1242 - / - / - / 656 / 27 / 113 I 1179 - / - / - / 640 / 53 / - Wind reactions based on MWFRS B Brg Wid = 5.5 Min Req = 1.6 (Support) I Brg Wid = - Min Req = - Bearing B Fcperp = 425psi. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.
				B - C 486 -2599 E - F 303 -1535 C - D 345 -2534 F - G 443 -1965 D - E 295 -1602 G - H 439 -1971 Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - O 2344 -408 N - M 2338 -410 O - N 2338 -410 M - L 1503 -306 Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. D - M 152 -970 L - J 1962 -387 E - M 561 -35 G - J 301 -588 F - L 264 -1271 J - H 2150 -479 F - J 1145 -331 H - I 311 -1112

Lumber
 Top chord: 2x4 SP #2; T1 2x4 SP 2400f-2.0E;
 Bot chord: 2x4 SP #2;
 Webs: 2x4 SP #2;
 Lt Slider: 2x4 SP #2; block length = 1.500'

Bracing
 (a) Continuous lateral restraint equally spaced on member.

Plate Shift Table

JT	Plate	Lateral	Chord	JT	Plate	Lateral	Chord
No	Size	Shift	Bite	No	Size	Shift	Bite
[20]	4X4	2.50	R 1.25	[26]	4X6	S	1.50
[28]	3X4	S	2.50				

Wind
 Wind loads based on MWFRS with additional C&C member design.
 Right end vertical not exposed to wind pressure.
 Wind loading based on both gable and hip roof types.

Snow
 Overhang designed for 2.00X TC LL.

Additional Notes
 Top Chord overhang(s) may be field trimmed.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - O	2344 -408	N - M	2338 -410
O - N	2338 -410	M - L	1503 -306

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
D - M	152 -970	L - J	1962 -387
E - M	561 -35	G - J	301 -588
F - L	264 -1271	J - H	2150 -479
F - J	1145 -331	H - I	311 -1112

Purlins
 In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	24	18.13	25.89
BC	120	0.00	19.44
BC	77	19.44	25.89

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

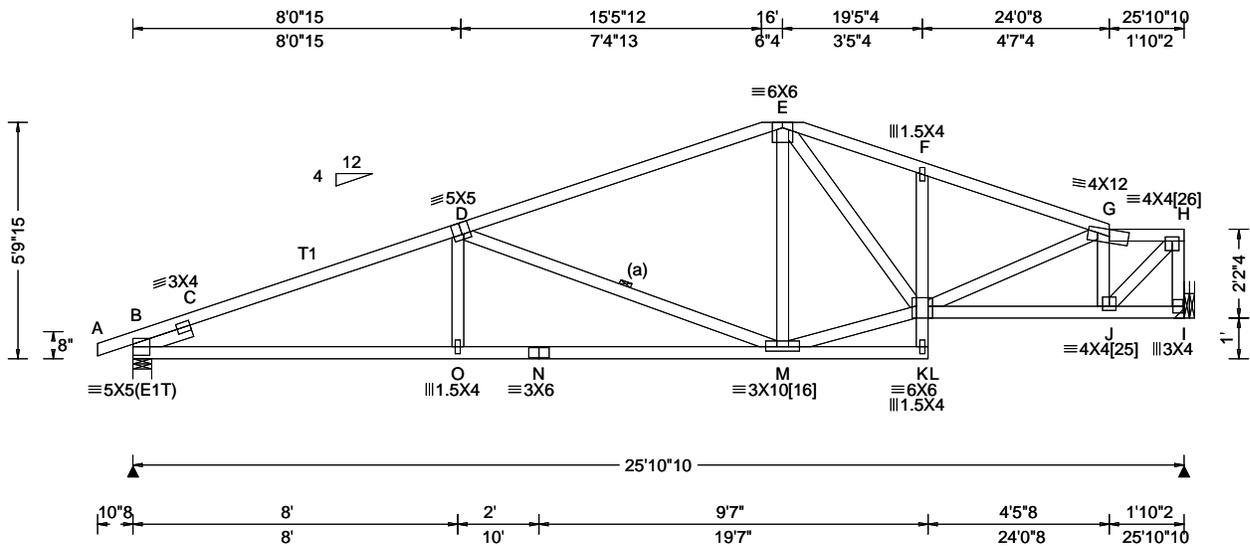
Hangers / Ties
 (J) Hanger Support Required, by others

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



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Loading Criteria (psf) TCCL: 25.00 TCCL: 10.00 BCDL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Criteria Speed: 115 mph Risk Category: II Enclosure: Part. Enc. EXP: B Kzt: NA TCCL: 6.0 psf BCDL: 6.0 psf Mean Height: 21.68 ft MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.55 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf(ASD): NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IRC 2018 Load Std: ASCE 7-16 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.112 D 999 248 VERT(CL): 0.206 D 999 248 HORZ(LL): 0.042 C - - HORZ(TL): 0.069 I - - Creep Factor: 2.0 Max TC CSI: 0.917 Max BC CSI: 0.856 Max Web CSI: 0.378 VIEW Ver: 25.02.00B.1125.14	Maximum Reactions (lbs) Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 1242 - / - / - / 647 - / 86 I 1179 - / - / - / 625 - / - Wind reactions based on MWFRS B Brg Wid = 5.5 Min Req = 1.6 (Support) I Brg Wid = - Min Req = - Bearing B Fcperp = 425psi. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 507 -2578 E - F 290 -1798 C - D 275 -2510 F - G 252 -1850 D - E 209 -1487 G - H 149 -1080
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Lumber
 Top chord: 2x4 SP #2; T1 2x4 SP 2400f-2.0E;
 Bot chord: 2x4 SP #2;
 Webs: 2x4 SP #2;
 Lt Slider: 2x4 SP #2; block length = 1.500'

Wind
 Wind loads based on MWFRS with additional C&C member design.
 Right end vertical not exposed to wind pressure.
 Wind loading based on both gable and hip roof types.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - O	2319 -294	N - M	2313 -296
O - N	2313 -296	K - J	1080 -150

Bracing
 (a) Continuous lateral restraint equally spaced on member.

Snow
 Overhang designed for 2.00X TC LL.

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
D - M	174 -1065	G - J	214 -1063
E - K	602 -107	J - H	1542 -212
M - K	1358 -134	H - I	173 -1170
K - G	665 -66		

Plate Shift Table

JT No	Plate Size	Lateral Shift	Chord Bite	JT No	Plate Size	Lateral Shift	Chord Bite
[16]	3X10	S	1.25	[25]	4X4	S	1.25
[26]	4X4	S	1.25				

Additional Notes
 Top Chord overhang(s) may be field trimmed.

Purlins
 In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	24	24.04	25.89
BC	120	0.00	19.44
BC	77	19.45	25.89



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Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Hangers / Ties
 (J) Hanger Support Required, by others

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

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SEQN: 11518 / FROM: Page 2 of 2	SPEC Ply: 2 Qty: 1	Job Number: PM000108 Customer - Clayton Properties Plan Name - Carolina Elevation - Modern Prairie Truss Label: A11	Cust: R 9646 JRef: 1YHW96460004 T23 / DrwNo: 054.26.1325.45950 / BM 02/23/2026
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Snow

Overhang designed for 2.00X TC LL.

Additional Notes

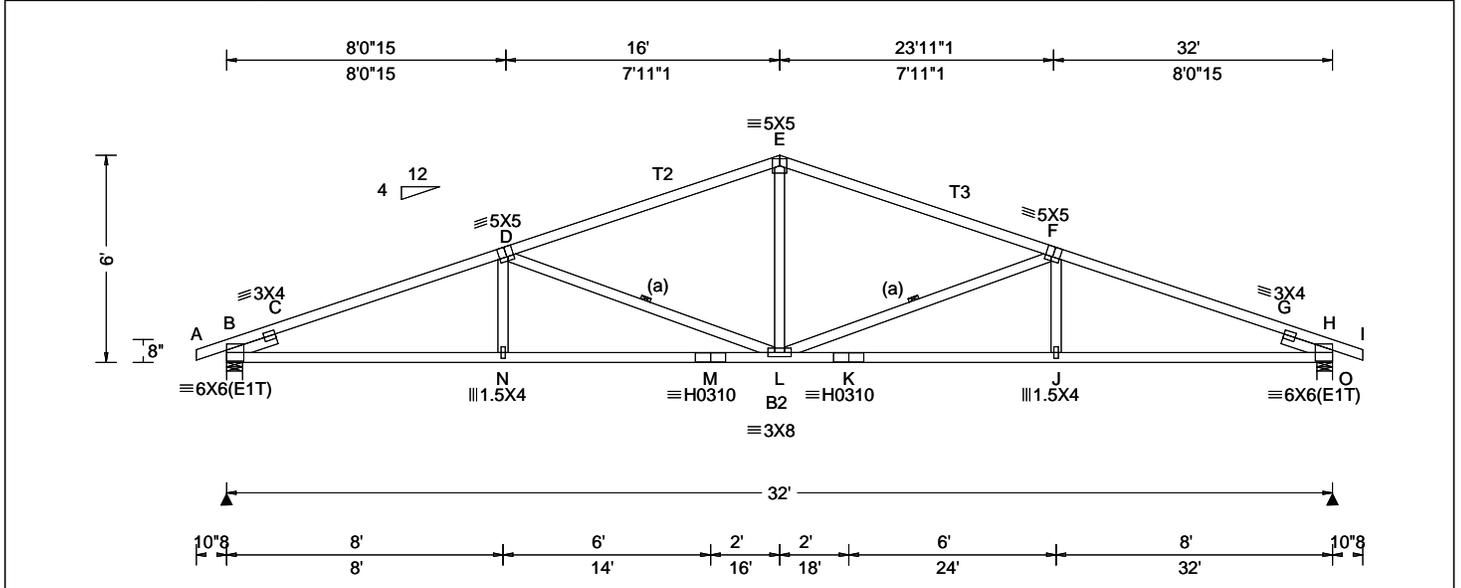
Top Chord overhang(s) may be field trimmed.



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Loading Criteria (psf) TCLL: 25.00 TC DL: 10.00 BC LL: 0.00 BC DL: 10.00 Des Ld: 45.00 NCBC LL: 10.00 Soffit: 0.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Criteria Speed: 115 mph Risk Category: II Enclosure: Part. Enc. EXP: B Kzt: NA TC DL: 6.0 psf BC DL: 6.0 psf Mean Height: 21.77 ft MWFRS Parallel Dist: h to 2h C&C Dist a: 3.20 ft Loc. from endwall: not in 9.00 ft GCpi: 0.55 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf(ASD): NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IRC 2018 Load Std: ASCE 7-16 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE, HS	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.175 L 999 307 VERT(CL): 0.323 L 999 307 HORZ(LL): 0.058 H - - HORZ(TL): 0.106 H - - Creep Factor: 2.0 Max TC CSI: 0.858 Max BC CSI: 0.878 Max Web CSI: 0.336 VIEW Ver: 25.02.00B.1125.14	▲ Maximum Reactions (lbs) Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 1520 - / - / - / 812 - / 46 O 1520 - / - / - / 812 - / - Wind reactions based on MWFRS B Brg Wid = 5.5 Min Req = 1.9 (Support) O Brg Wid = 5.5 Min Req = 1.9 (Support) Bearings B & O Fcperp = 425psi. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 586 -3347 E - F 339 -2323 C - D 391 -3274 F - G 391 -3274 D - E 339 -2323 G - H 586 -3347					
				Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - N 3036 -299 L - K 3030 -304 N - M 3030 -301 K - J 3030 -304 M - L 3030 -301 J - H 3036 -301 Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. D - L 162 -979 L - F 162 -979 E - L 865 -22					

Lumber
 Top chord: 2x4 SP 2400f-2.0E; T2,T3 2x4 SP #2;
 Bot chord: 2x4 SP 2400f-2.0E; B2 2x4 SP #2;
 Webs: 2x4 SP #2;
 Lt Slider: 2x4 SP #2; block length = 1.500'
 Rt Slider: 2x4 SP #2; block length = 1.500'

Bracing
 (a) Continuous lateral restraint equally spaced on member.

Purlins
 In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:
 Chord Spacing(in oc) Start(ft) End(ft)
 BC 120 0.00 32.00
 Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

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

Wind
 Wind loads based on MWFRS with additional C&C member design.
 Wind loading based on both gable and hip roof types.

Snow
 Overhang designed for 2.00X TC LL.

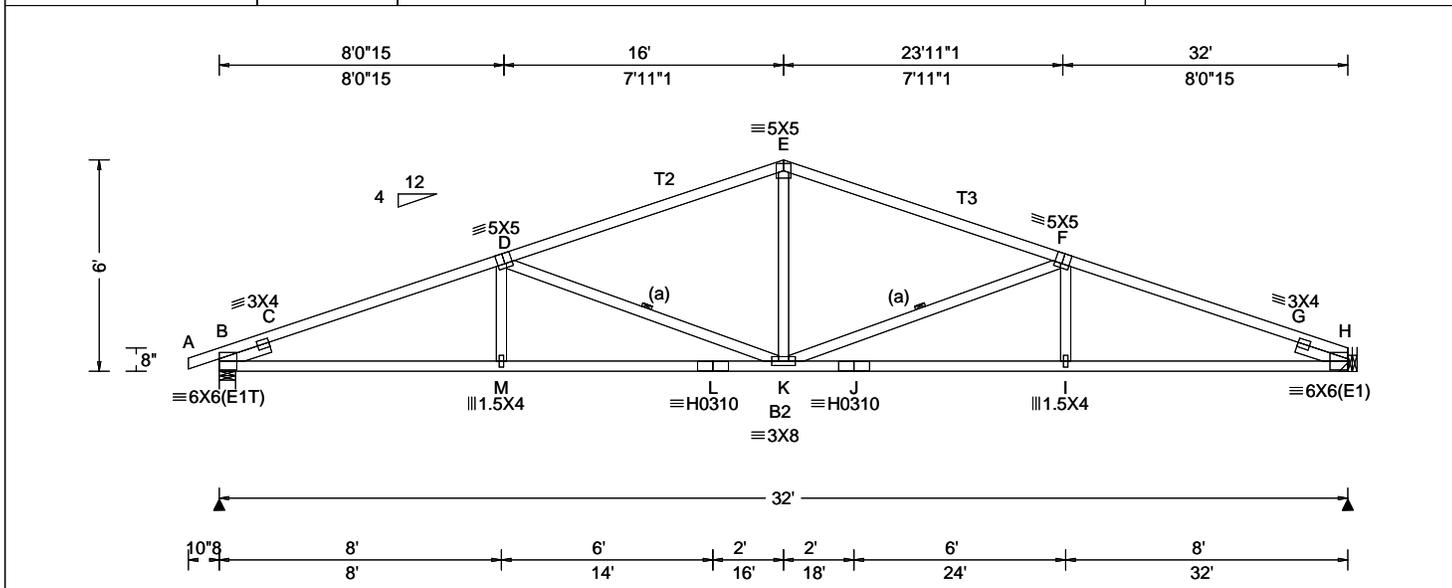
Additional Notes
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Loading Criteria (psf) TCCL: 25.00 TCCL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Criteria Speed: 115 mph Risk Category: II Enclosure: Part. Enc. EXP: B Kzt: NA TCCL: 6.0 psf BCDL: 6.0 psf Mean Height: 21.77 ft MWFRS Parallel Dist: h to 2h C&C Dist a: 3.20 ft Loc. from endwall: not in 9.00 ft GCpi: 0.55 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf(ASD): NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IRC 2018 Load Std: ASCE 7-16 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.175 K 999 307 VERT(CL): 0.323 K 999 307 HORZ(LL): 0.058 H - - HORZ(TL): 0.106 H - - Creep Factor: 2.0 Max TC CSI: 0.858 Max BC CSI: 0.878 Max Web CSI: 0.336 VIEW Ver: 25.02.00B.1125.14	▲ Maximum Reactions (lbs) Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 1520 - / - / - / 812 - / / 51 H 1457 - / - / - / 797 - / - / - Wind reactions based on MWFRS B Brg Wid = 5.5 Min Req = 1.9 (Support) H Brg Wid = - Min Req = - Bearing B Fcperp = 425psi. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.					
				B - C 586 -3347 E - F 341 -2323 C - D 392 -3274 F - G 399 -3274 D - E 339 -2323 G - H 629 -3313					

Lumber
 Top chord: 2x4 SP 2400f-2.0E; T2,T3 2x4 SP #2;
 Bot chord: 2x4 SP 2400f-2.0E; B2 2x4 SP #2;
 Webs: 2x4 SP #2;
 Lt Slider: 2x4 SP #2; block length = 1.500'
 Rt Slider: 2x4 SP #2; block length = 1.500'

Bracing
 (a) Continuous lateral restraint equally spaced on member.

Purlins
 In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:
 Chord Spacing(in oc) Start(ft) End(ft)
 BC 120 0.00 32.00
 Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Hangers / Ties
 (J) Hanger Support Required, by others

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

Wind
 Wind loads based on MWFRS with additional C&C member design.
 Wind loading based on both gable and hip roof types.

Snow
 Overhang designed for 2.00X TC LL.

Additional Notes
 Top Chord overhang(s) may be field trimmed.



Maximum Bot Chord Forces Per Ply (lbs)

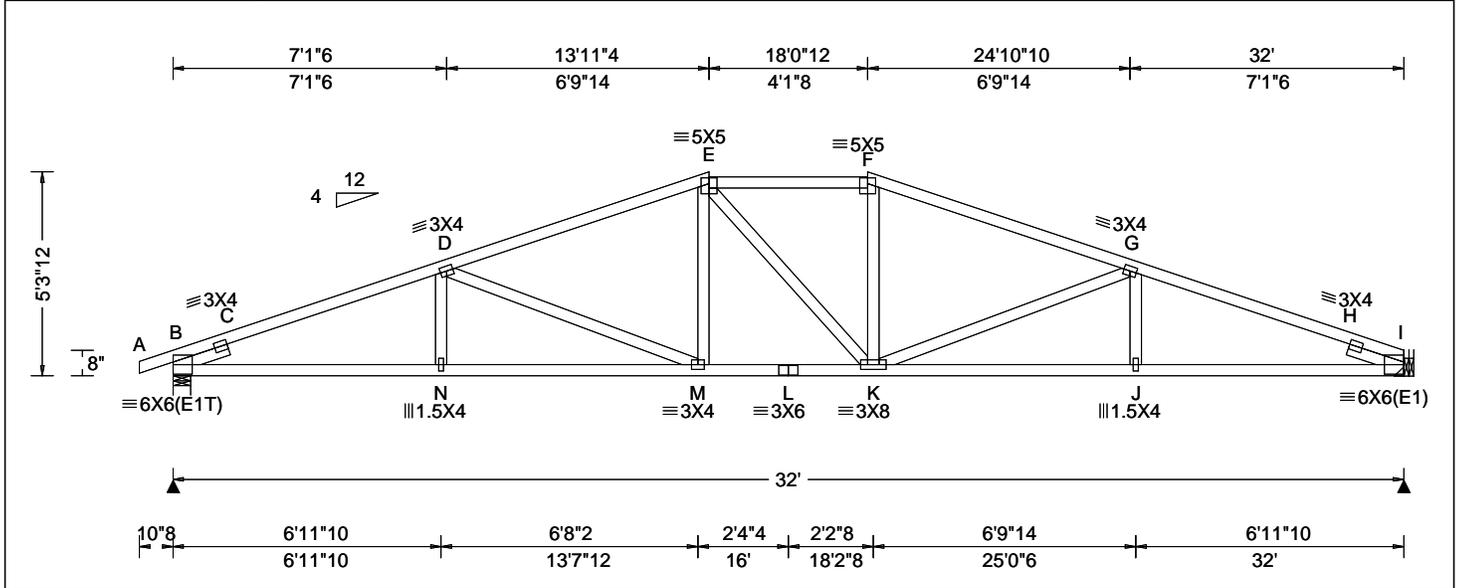
Chords	Tens.Comp.	Chords	Tens. Comp.
B - M	3036 -314	K - J	3030 -317
M - L	3030 -316	J - I	3030 -317
L - K	3030 -316	I - H	3036 -314

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
D - K	162 -979	K - F	164 -979
E - K	865 -24		

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Loading Criteria (psf) TCCL: 25.00 TC DL: 10.00 BCCL: 0.00 BC DL: 10.00 Des Ld: 45.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Criteria Speed: 115 mph Risk Category: II Enclosure: Part. Enc. EXP: B Kzt: NA TC DL: 6.0 psf BC DL: 6.0 psf Mean Height: 21.43 ft MWFRS Parallel Dist: h to 2h C&C Dist a: 3.20 ft Loc. from endwall: not in 9.00 ft GCpi: 0.55 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf(ASD): NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IRC 2018 Load Std: ASCE 7-16 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.222 M 999 307 VERT(CL): 0.407 M 942 307 HORZ(LL): 0.077 I - - HORZ(TL): 0.141 I - - Creep Factor: 2.0 Max TC CSI: 0.951 Max BC CSI: 0.945 Max Web CSI: 0.710 VIEW Ver: 25.02.00B.1125.14	▲ Maximum Reactions (lbs) <table border="1"> <tr> <th rowspan="2">Loc</th> <th colspan="3">Gravity</th> <th colspan="3">Non-Gravity</th> </tr> <tr> <th>R+</th> <th>/R-</th> <th>/Rh</th> <th>/Rw</th> <th>/U</th> <th>/RL</th> </tr> <tr> <td>B</td> <td>1520</td> <td>-</td> <td>-</td> <td>/810</td> <td>-</td> <td>/45</td> </tr> <tr> <td>I</td> <td>1457</td> <td>-</td> <td>-</td> <td>/794</td> <td>-</td> <td>-</td> </tr> </table> Wind reactions based on MWFRS B Brg Wid = 5.5 Min Req = 1.9 (Support) I Brg Wid = - Min Req = - Bearing B Fcperp = 425psi. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) <table border="1"> <tr> <th>Chords</th> <th>Tens.Comp.</th> <th>Chords</th> <th>Tens. Comp.</th> </tr> <tr> <td>B - C</td> <td>535 -3387</td> <td>F - G</td> <td>435 -2572</td> </tr> <tr> <td>C - D</td> <td>470 -3316</td> <td>G - H</td> <td>472 -3316</td> </tr> <tr> <td>D - E</td> <td>438 -2582</td> <td>H - I</td> <td>574 -3354</td> </tr> <tr> <td>E - F</td> <td>443 -2358</td> <td></td> <td></td> </tr> </table>	Loc	Gravity			Non-Gravity			R+	/R-	/Rh	/Rw	/U	/RL	B	1520	-	-	/810	-	/45	I	1457	-	-	/794	-	-	Chords	Tens.Comp.	Chords	Tens. Comp.	B - C	535 -3387	F - G	435 -2572	C - D	470 -3316	G - H	472 -3316	D - E	438 -2582	H - I	574 -3354	E - F	443 -2358		
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Lumber
 Top chord: 2x4 SP #2;
 Bot chord: 2x4 SP #2;
 Webs: 2x4 SP #2;
 Lt Slider: 2x4 SP #2; block length = 1.500'
 Rt Slider: 2x4 SP #2; block length = 1.500'

Purlins
 In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	24	13.94	18.06
BC	120	0.00	32.00

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Hangers / Ties
 (J) Hanger Support Required, by others

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

Wind
 Wind loads based on MWFRS with additional C&C member design.
 Wind loading based on both gable and hip roof types.

Snow
 Overhang designed for 2.00X TC LL.

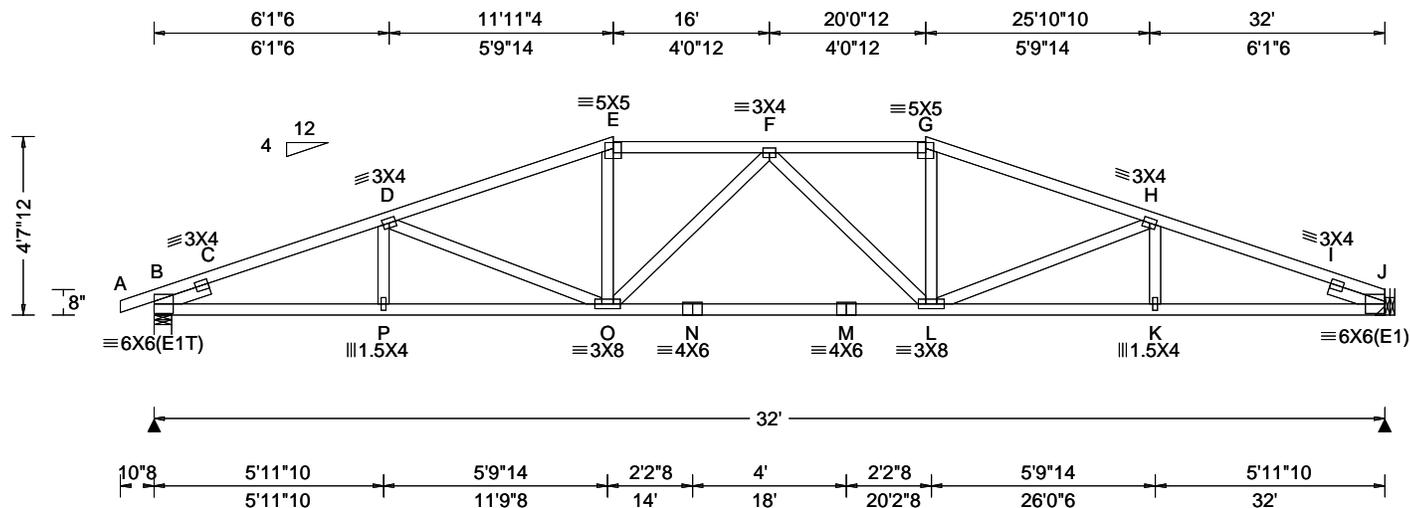
Additional Notes
 Top Chord overhang(s) may be field trimmed.



MISSOURI COA #2005000817
 02/23/2026

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Loading Criteria (psf) TCLL: 25.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Criteria Speed: 115 mph Risk Category: II Enclosure: Part. Enc. EXP: B Kzt: NA TCDL: 6.0 psf BCDL: 6.0 psf Mean Height: 21.09 ft MWFRS Parallel Dist: h to 2h C&C Dist a: 3.20 ft Loc. from endwall: not in 9.00 ft GCpi: 0.55 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf(ASD): NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IRC 2018 Load Std: ASCE 7-16 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.240 F 999 307 VERT(CL): 0.438 F 876 307 HORIZ(LL): 0.078 J - - HORIZ(TL): 0.141 J - - Creep Factor: 2.0 Max TC CSI: 0.632 Max BC CSI: 0.894 Max Web CSI: 0.347 VIEW Ver: 25.02.00B.1125.14	▲ Maximum Reactions (lbs) Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 1520 /- /- /807 /4 /39 J 1457 /- /- /791 /- /- Wind reactions based on MWFRS B Brg Wid = 5.5 Min Req = 1.9 (Support) J Brg Wid = - Min Req = - Bearing B Fcperp = 425psi. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 533 -3380 F - G 516 -2594 C - D 537 -3315 G - H 516 -2809 D - E 517 -2809 H - I 537 -3315 E - F 518 -2594 I - J 557 -3352
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Lumber
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #2;
Lt Slider: 2x4 SP #2; block length = 1.500'
Rt Slider: 2x4 SP #2; block length = 1.500'

Purlins
In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	24	11.94	20.06
BC	120	0.00	32.00

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Hangers / Ties
(J) Hanger Support Required, by others

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

Wind
Wind loads based on MWFRS with additional C&C member design.
Wind loading based on both gable and hip roof types.

Snow
Overhang designed for 2.00X TC LL.

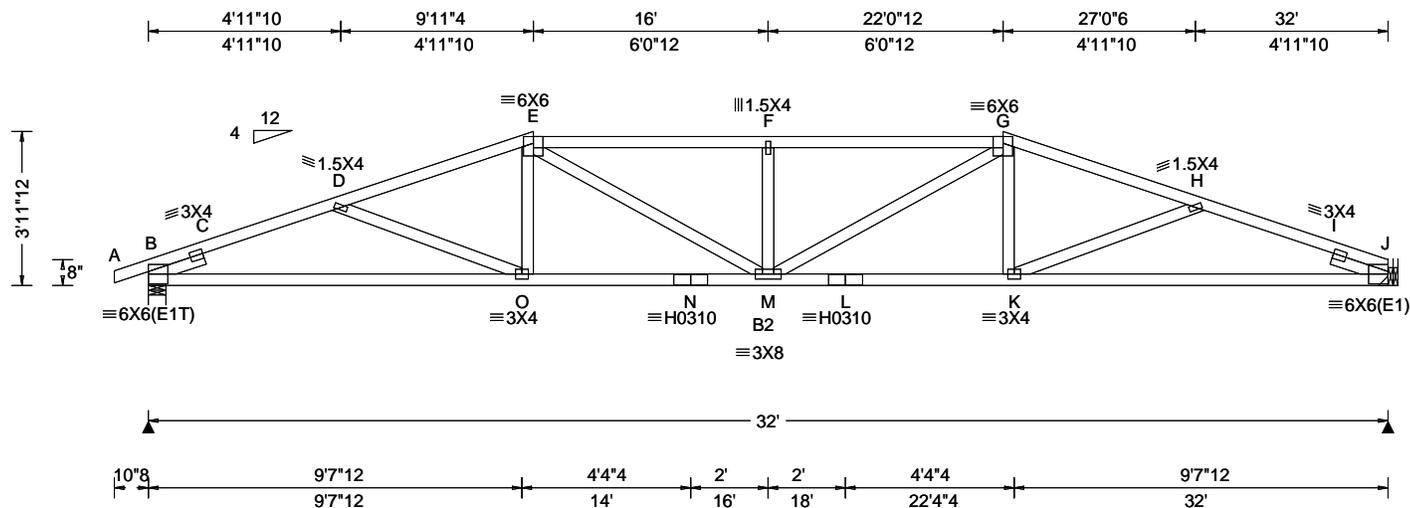
Additional Notes
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Loading Criteria (psf) TCCL: 25.00 TC DL: 10.00 BCCL: 0.00 BC DL: 10.00 Des Ld: 45.00 NCBCCL: 10.00 Soffit: 0.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Criteria Speed: 115 mph Risk Category: II Enclosure: Part. Enc. EXP: B Kzt: NA TC DL: 6.0 psf BC DL: 6.0 psf Mean Height: 20.76 ft MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.20 ft Loc. from endwall: not in 9.00 ft GCpi: 0.55 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf(ASD): NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IRC 2018 Load Std: ASCE 7-16 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.256 F 999 307 VERT(CL): 0.459 F 835 307 HORZ(LL): 0.058 J - - HORZ(TL): 0.104 J - - Creep Factor: 2.0 Max TC CSI: 0.743 Max BC CSI: 0.715 Max Web CSI: 0.206 VIEW Ver: 25.02.00B.1125.14	▲ Maximum Reactions (lbs) <table border="1"> <thead> <tr> <th rowspan="2">Loc</th> <th colspan="3">Gravity</th> <th colspan="3">Non-Gravity</th> </tr> <tr> <th>R+</th> <th>/R-</th> <th>/Rh</th> <th>/Rw</th> <th>/U</th> <th>/RL</th> </tr> </thead> <tbody> <tr> <td>B</td> <td>1520</td> <td>-</td> <td>-</td> <td>/804</td> <td>/51</td> <td>/33</td> </tr> <tr> <td>J</td> <td>1457</td> <td>-</td> <td>-</td> <td>/789</td> <td>/48</td> <td>-</td> </tr> </tbody> </table> Wind reactions based on MWFRS B Brg Wid = 5.5 Min Req = 1.9 (Support) J Brg Wid = - Min Req = - Bearing B Fcperp = 425psi. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) <table border="1"> <thead> <tr> <th>Chords</th> <th>Tens.Comp.</th> <th>Chords</th> <th>Tens. Comp.</th> </tr> </thead> <tbody> <tr> <td>B - C</td> <td>664 -3401</td> <td>F - G</td> <td>739 -3347</td> </tr> <tr> <td>C - D</td> <td>658 -3345</td> <td>G - H</td> <td>590 -3045</td> </tr> <tr> <td>D - E</td> <td>591 -3045</td> <td>H - I</td> <td>659 -3345</td> </tr> <tr> <td>E - F</td> <td>739 -3347</td> <td>I - J</td> <td>691 -3382</td> </tr> </tbody> </table>	Loc	Gravity			Non-Gravity			R+	/R-	/Rh	/Rw	/U	/RL	B	1520	-	-	/804	/51	/33	J	1457	-	-	/789	/48	-	Chords	Tens.Comp.	Chords	Tens. Comp.	B - C	664 -3401	F - G	739 -3347	C - D	658 -3345	G - H	590 -3045	D - E	591 -3045	H - I	659 -3345	E - F	739 -3347	I - J	691 -3382
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Lumber
 Top chord: 2x4 SP #2;
 Bot chord: 2x4 SP 2400f-2.0E; B2 2x4 SP #2;
 Webs: 2x4 SP #2;
 Lt Slider: 2x4 SP #2; block length = 1.500'
 Rt Slider: 2x4 SP #2; block length = 1.500'

Purlins
 In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	24	9.94	22.06
BC	120	0.00	32.00

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Hangers / Ties
 (J) Hanger Support Required, by others

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

Wind
 Wind loads based on MWFRS with additional C&C member design.
 Wind loading based on both gable and hip roof types.

Snow
 Overhang designed for 2.00X TC LL.

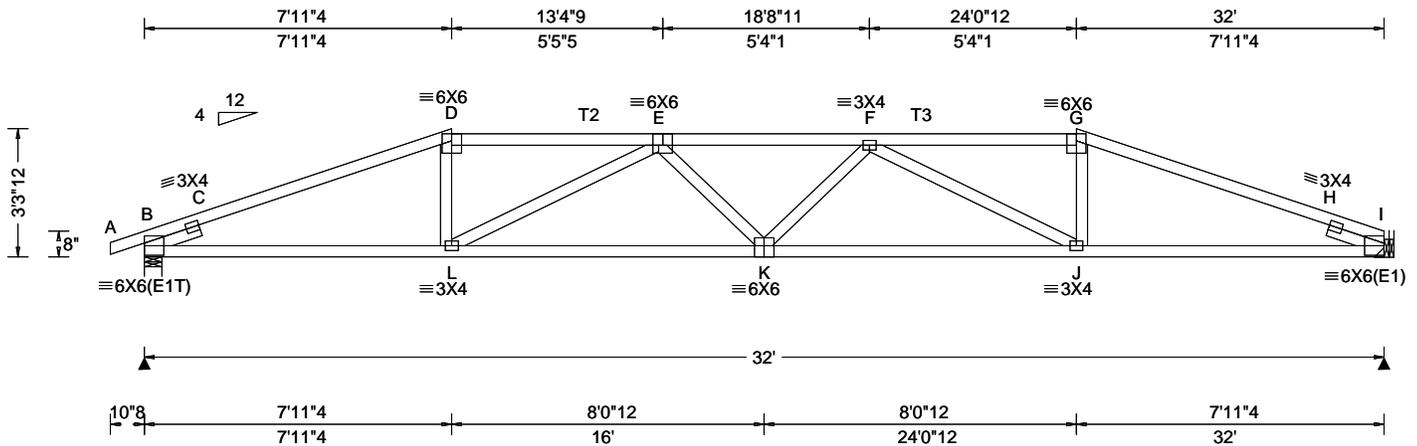
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MISSOURI COA #2005000817
 02/23/2026

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Loading Criteria (psf) TCLL: 25.00 TC DL: 10.00 BC LL: 0.00 BC DL: 10.00 Des Ld: 45.00 NCBC LL: 10.00 Soffit: 0.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Criteria Speed: 115 mph Risk Category: II Enclosure: Part. Enc. EXP: B Kzt: NA TC DL: 6.0 psf BC DL: 6.0 psf Mean Height: 20.43 ft MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.20 ft Loc. from endwall: not in 9.00 ft GCpi: 0.55 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf(ASD): NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IRC 2018 Load Std: ASCE 7-16 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.277 K 999 307 VERT(CL): 0.510 K 752 307 HORZ(LL): 0.063 I - - HORZ(TL): 0.115 I - - Creep Factor: 2.0 Max TC CSI: 0.837 Max BC CSI: 0.433 Max Web CSI: 0.677 VIEW Ver: 25.02.00B.1125.14	▲ Maximum Reactions (lbs) Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 1520 /- /- /801 /51 /27 I 1457 /- /- /789 /49 /- Wind reactions based on MWFRS B Brg Wid = 5.5 Min Req = 1.9 (Support) I Brg Wid = - Min Req = - Bearing B Fcperp = 425psi. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 824 -3382 F - G 661 -3074 C - D 661 -3311 G - H 660 -3310 D - E 661 -3075 H - I 829 -3348 E - F 859 -4012					
				Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - L 3074 -567 K - J 3944 -812 L - K 3941 -811 J - I 3074 -566 Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. D - L 605 -42 F - J 320 -991 L - E 319 -992 G - J 605 -43					

Lumber
 Top chord: 2x4 SP 2400f-2.0E; T2,T3 2x4 SP #2;
 Bot chord: 2x4 SP 2400f-2.0E;
 Webs: 2x4 SP #2;
 Lt Slider: 2x4 SP #2; block length = 1.500'
 Rt Slider: 2x4 SP #2; block length = 1.500'

Purlins
 In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	24	7.94	24.06
BC	120	0.00	32.00

 Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Hangers / Ties
 (J) Hanger Support Required, by others

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

Wind
 Wind loads based on MWFRS with additional C&C member design.
 Wind loading based on both gable and hip roof types.

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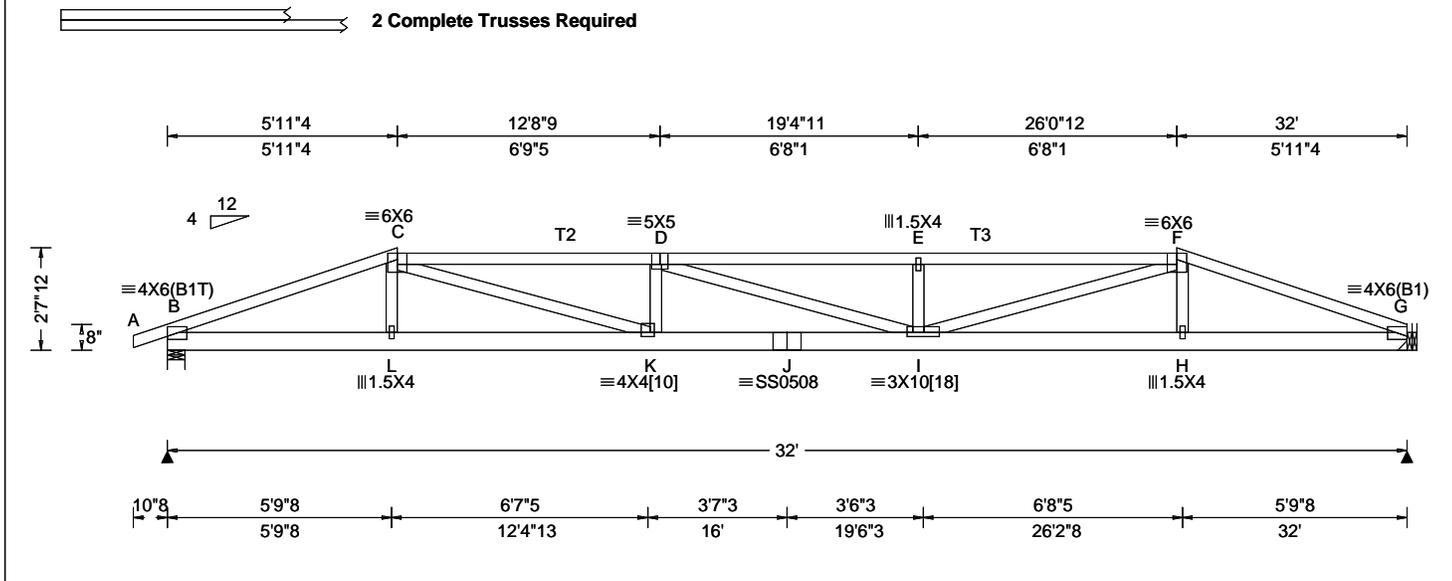
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ALPINE
 RELEASE FOR CONSTRUCTION
 AS NOTED BY STAIN REVIEW
 DEVELOPMENT SERVICES
 LEE'S SUMMIT, MISSOURI
 03/03/2026 9:47:49



Loading Criteria (psf) TCCL: 25.00 TCCL: 10.00 BCCL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCCL: 0.00 Soffit: 0.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Criteria Speed: 115 mph Risk Category: II Enclosure: Part. Enc. EXP: B Kzt: NA TCCL: 6.0 psf BCDL: 6.0 psf Mean Height: 20.09 ft MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.20 ft Loc. from endwall: not in 9.00 ft GCpi: 0.55 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf(ASD): NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IRC 2018 Load Std: ASCE 7-16 TPI Std: 2014 Loc. from endwall: not in 9.00 ft Rep Fac: Varies by Ld Case FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.390 E 977 304 VERT(CL): 0.704 E 540 304 HORZ(LL): 0.052 C - - HORZ(TL): 0.093 C - - Creep Factor: 2.0 Max TC CSI: 0.804 Max BC CSI: 0.431 Max Web CSI: 0.547 VIEW Ver: 25.02.00B.1125.14	▲ Maximum Reactions (lbs) Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 2280 - / - / - / - / 389 - / - G 2213 - / - / - / - / 373 - / - Wind reactions based on MWFRS B Brg Wid = 5.5 Min Req = 1.6 (Support) G Brg Wid = - Min Req = - Bearing B Fcperp = 425psi. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 486 -2804 E - F 852 -4795 C - D 839 -4758 F - G 491 -2830 D - E 851 -4792					
				Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - L 2646 -459 J - I 4825 -863 L - K 2651 -464 I - H 2675 -468 K - J 4825 -863 H - G 2671 -463 Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. C - K 2220 -395 E - I 183 -513 K - D 183 -516 I - F 2229 -403					

Lumber
 Top chord: 2x4 SP #2; T2,T3 2x4 SP 2400f-2.0E;
 Bot chord: 2x6 SP 2400f-2.0E;
 Webs: 2x4 SP #2;

Nailnote
 Nail Schedule: 0.128"x3", min. nails
 Top Chord: 1 Row @12.00" o.c.
 Bot Chord: 1 Row @12.00" o.c.
 Webs : 1 Row @ 4" o.c.
 Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads
 -----(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
 TC: From 71 plf at -0.88 to 71 plf at 0.00
 TC: From 36 plf at 0.00 to 36 plf at 32.00
 BC: From 10 plf at 0.00 to 10 plf at 32.00
 TC: 196 lb Conc. Load at 6.00, 8.00, 10.00, 12.00, 14.00, 16.00, 18.00, 20.00, 22.00, 24.00, 26.00
 BC: 74 lb Conc. Load at 6.00, 8.00, 10.00, 12.00, 14.00, 16.00, 18.00, 20.00, 22.00, 24.00, 26.00

Purlins
 In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	24	5.94	26.06
BC	120	0.30	31.70

 Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Snow
 Overhang designed for 2.00X TC LL.

Additional Notes
 Top Chord overhang(s) may be field trimmed.

Plate Shift Table

JT No	Plate Size	Lateral Shift	Chord	JT No	Plate Size	Lateral Shift	Chord
[10]	4X4	1.25	R [18]	[18]	3X10	4.75	R [18]

Hangers / Ties
 (J) Hanger Support Required, by others

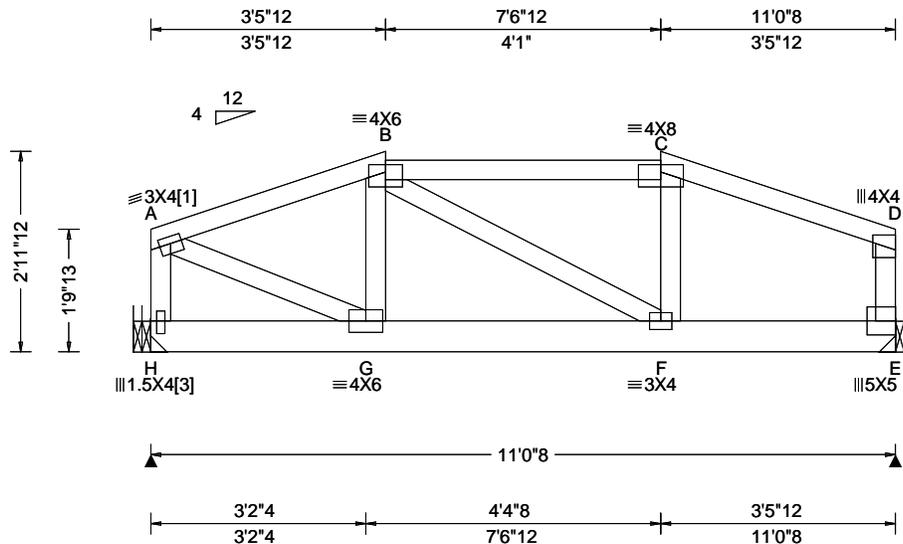
Wind
 Wind loads and reactions based on MWFRS.
 Wind loading based on both gable and hip roof types.



MISSOURI COA #2005000817
 02/23/2026

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Loading Criteria (psf) TCLL: 25.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Criteria Speed: 115 mph Risk Category: II Enclosure: Part. Enc. EXP: B Kzt: NA TCDL: 6.0 psf BCDL: 6.0 psf Mean Height: 31.41 ft MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.55 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf(ASD): NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IRC 2018 Load Std: ASCE 7-16 TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/10(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.235 C 564 240 VERT(CL): 0.427 F 310 180 HORZ(LL): 0.152 D - - HORZ(TL): 0.276 D - - Creep Factor: 2.0 Max TC CSI: 0.454 Max BC CSI: 0.703 Max Web CSI: 0.411 VIEW Ver: 25.02.00B.1125.14	▲ Maximum Reactions (lbs) Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL H 925 /- /- /- /91 /45 E 925 /- /- /- /97 /- Wind reactions based on MWFRS H Brg Wid = - Min Req = - E Brg Wid = - Min Req = - Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. A - B 107 -1191 Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. G - F 1058 -100 Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. A - H 100 -935 G - B 475 0 A - G 1212 -76 B - F 94 -975
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Lumber
Top chord: 2x4 SP 2400f-2.0E;
Bot chord: 2x6 SP 2400f-2.0E;
Webs: 2x4 SP #2;

Special Loads
----(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 71 plf at 0.00 to 71 plf at 11.04
BC: From 20 plf at 0.00 to 20 plf at 11.04
TC: 140 lb Conc. Load at 1.54, 9.50
TC: 128 lb Conc. Load at 3.54, 5.50, 7.50
BC: 39 lb Conc. Load at 1.54, 9.50
BC: 33 lb Conc. Load at 3.54, 5.50, 7.50

Wind
Wind loads and reactions based on MWFRS.
Left end vertical exposed to wind pressure.
Deflection meets L/180.
Right end vertical not exposed to wind pressure.
Wind loading based on both gable and hip roof types.

Plate Shift Table

JT No	Plate Size	Lateral Shift	Chord Bite	JT No	Plate Size	Lateral Shift	Chord Bite
[1]	3X4	S	1.25	[3]	1.5X4	S	2.25

Purlins
In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:
Chord Spacing(in oc) Start(ft) End(ft)
TC 24 3.48 7.56
BC 107 0.00 11.04
Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Hangers / Ties
(J) Hanger Support Required, by others

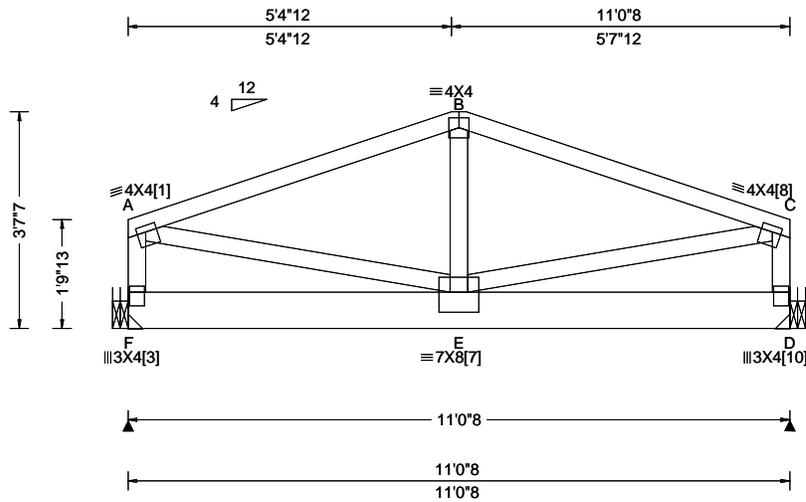
Loading
Bottom chord checked for 10.00 psf non-concurrent live load.



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2 Complete Trusses Required



Loading Criteria (psf) TCLL: 25.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Criteria Speed: 115 mph Risk Category: II Enclosure: Part. Enc. EXP: B Kzt: NA TCDL: 6.0 psf BCDL: 6.0 psf Mean Height: 31.73 ft MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.55 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf(ASD): NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IRC 2018 Load Std: ASCE 7-16 TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/10(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.040 E 999 240 VERT(CL): 0.072 E 999 180 HORZ(LL): 0.001 C - - HORZ(TL): 0.001 C - - Creep Factor: 2.0 Max TC CSI: 0.388 Max BC CSI: 0.442 Max Web CSI: 0.471 VIEW Ver: 25.02.00B.1125.14	▲ Maximum Reactions (lbs) Gravity Non-Gravity Loc R+ /R- /Rh /Rw /U /RL F 3472 /- /- /- /168 /43 D 3428 /- /- /- /159 /- Wind reactions based on MWFRS F Brg Wid = - Min Req = - D Brg Wid = - Min Req = - Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 109 -2028 B - C 111 -2028
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Lumber Top chord: 2x4 SP #2; Bot chord: 2x8 SP #1; Webs: 2x4 SP #2;	Hangers / Ties (J) Hanger Support Required, by others	Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. A - F 84 -1180 B - E 1046 0 A - E 1921 -82 C - D 87 -1180 E - C 1921 -94
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Nailnote
Nail Schedule: 0.128"x3", min. nails
Top Chord: 1 Row @ 12.00" o.c.
Bot Chord: 2 Rows @ 5.00" o.c. (Each Row)
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Wind
Wind loads and reactions based on MWFRS.
Left end vertical exposed to wind pressure.
Deflection meets L/180.
Right end vertical not exposed to wind pressure.
Wind loading based on both gable and hip roof types.

Special Loads
----- (Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 71 plf at 0.00 to 71 plf at 11.04
BC: From 20 plf at 0.00 to 20 plf at 11.04
BC: 1179 lb Conc. Load at 1.48, 3.48, 5.48, 7.48, 9.48

Plate Shift Table

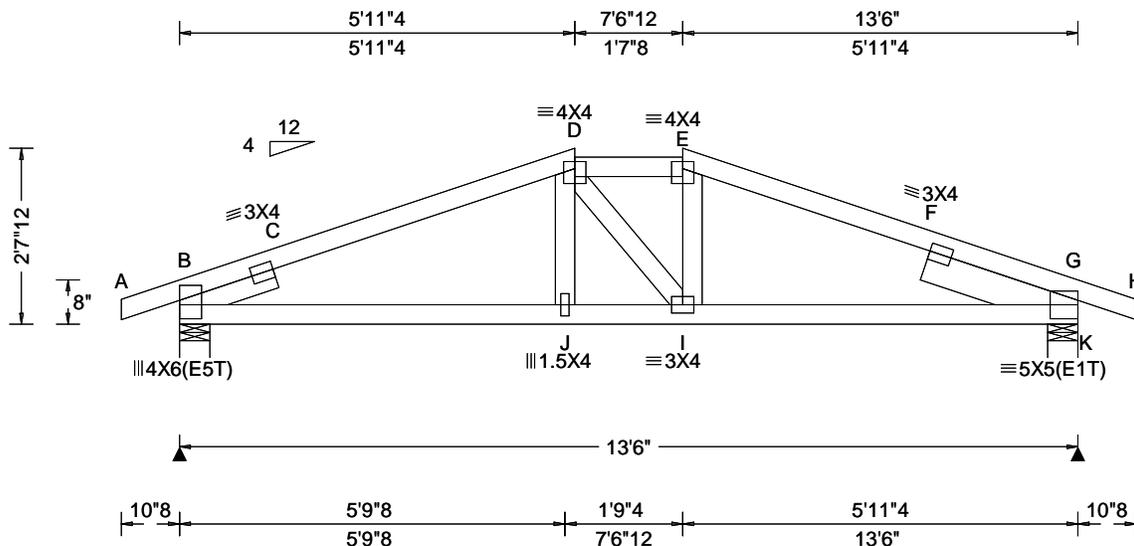
JT No	Plate Size	Lateral Shift	Chord Bite	JT No	Plate Size	Lateral Shift	Chord Bite
[1]	4X4	2.25	R 1.25	[3]	3X4	S	2.75
[7]	7X8	S	4.00	[8]	4X4	1.75	R 1.25
[10]	3X4	S	2.75				

Purlins
In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:
Chord Spacing(in oc) Start(ft) End(ft)
BC 120 0.00 11.04
Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.



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Loading Criteria (psf) TCLL: 25.00 TC DL: 10.00 BC LL: 0.00 BC DL: 10.00 Des Ld: 45.00 NCBC LL: 0.00 Soffit: 0.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Criteria Speed: 115 mph Risk Category: II Enclosure: Part. Enc. EXP: B Kzt: NA TC DL: 6.0 psf BC DL: 6.0 psf Mean Height: 29.52 ft MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.55 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf(ASD): NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IRC 2018 Load Std: ASCE 7-16 TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT: 20(0)/10(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.054 F 999 240 VERT(CL): 0.082 F 999 180 HORZ(LL): -0.015 F - - HORZ(TL): 0.022 G - - Creep Factor: 2.0 Max TC CSI: 0.284 Max BC CSI: 0.490 Max Web CSI: 0.086 VIEW Ver: 25.02.00B.1125.14	▲ Maximum Reactions (lbs) <table border="1"> <thead> <tr> <th rowspan="2">Loc</th> <th colspan="3">Gravity</th> <th colspan="3">Non-Gravity</th> </tr> <tr> <th>R+</th> <th>/R-</th> <th>/Rh</th> <th>/Rw</th> <th>/U</th> <th>/RL</th> </tr> </thead> <tbody> <tr> <td>B</td> <td>640</td> <td>-</td> <td>-</td> <td>-</td> <td>134</td> <td>-</td> </tr> <tr> <td>K</td> <td>640</td> <td>-</td> <td>-</td> <td>-</td> <td>134</td> <td>-</td> </tr> </tbody> </table>						Loc	Gravity			Non-Gravity			R+	/R-	/Rh	/Rw	/U	/RL	B	640	-	-	-	134	-	K	640	-	-	-	134	-
				Loc	Gravity			Non-Gravity																												
R+	/R-	/Rh	/Rw		/U	/RL																														
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Maximum Top Chord Forces Per Ply (lbs) <table border="1"> <thead> <tr> <th>Chords</th> <th>Tens.Comp.</th> <th>Chords</th> <th>Tens. Comp.</th> </tr> </thead> <tbody> <tr> <td>B - C</td> <td>255 - 1279</td> <td>E - F</td> <td>246 - 1254</td> </tr> <tr> <td>C - D</td> <td>248 - 1261</td> <td>F - G</td> <td>256 - 1281</td> </tr> <tr> <td>D - E</td> <td>228 - 1172</td> <td></td> <td></td> </tr> </tbody> </table>				Chords	Tens.Comp.	Chords	Tens. Comp.	B - C	255 - 1279	E - F	246 - 1254	C - D	248 - 1261	F - G	256 - 1281	D - E	228 - 1172			Maximum Bot Chord Forces Per Ply (lbs) <table border="1"> <thead> <tr> <th>Chords</th> <th>Tens.Comp.</th> <th>Chords</th> <th>Tens. Comp.</th> </tr> </thead> <tbody> <tr> <td>B - J</td> <td>1170 - 227</td> <td>I - G</td> <td>1173 - 228</td> </tr> <tr> <td>J - I</td> <td>1153 - 225</td> <td></td> <td></td> </tr> </tbody> </table>		Chords	Tens.Comp.	Chords	Tens. Comp.	B - J	1170 - 227	I - G	1173 - 228	J - I	1153 - 225					
Chords	Tens.Comp.	Chords	Tens. Comp.																																	
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B - J	1170 - 227	I - G	1173 - 228																																	
J - I	1153 - 225																																			

Lumber
 Top chord: 2x4 SP #2;
 Bot chord: 2x4 SP #2;
 Webs: 2x4 SP #2;
 Lt Slider: 2x4 SP #2; block length = 1.500'
 Rt Slider: 2x6 SP #2; block length = 2.366'

Special Loads
 -----(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
 TC: From 71 plf at -0.88 to 71 plf at 0.00
 TC: From 36 plf at 0.00 to 36 plf at 13.50
 TC: From 71 plf at 13.50 to 71 plf at 14.38
 BC: From 10 plf at 0.00 to 10 plf at 13.50
 TC: 196 lb Conc. Load at 6.00, 7.50
 BC: 74 lb Conc. Load at 6.00, 7.50

Purlins
 In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	24	5.94	7.56
BC	120	0.00	13.50

 Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Wind
 Wind loads and reactions based on MWFRS.
 Wind loading based on both gable and hip roof types.

Snow
 Overhang designed for 2.00X TC LL.

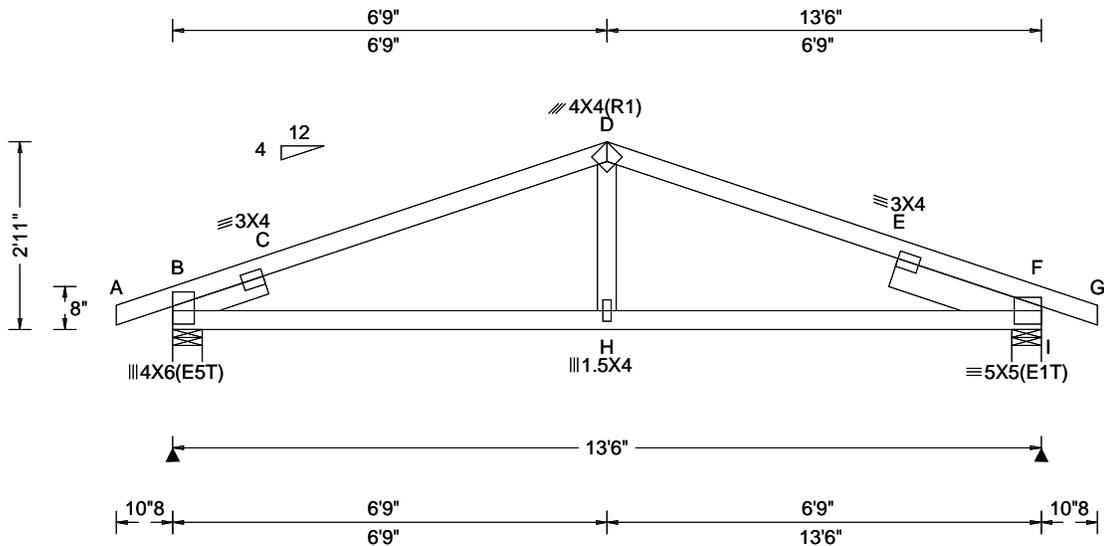
Additional Notes
 Top Chord overhang(s) may be field trimmed.



MISSOURI COA #2005000817
 02/23/2026

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Loading Criteria (psf) TCLL: 25.00 TC DL: 10.00 BC LL: 0.00 BC DL: 10.00 Des Ld: 45.00 NCBC LL: 10.00 Soffit: 0.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Criteria Speed: 115 mph Risk Category: II Enclosure: Part. Enc. EXP: B Kzt: NA TC DL: 6.0 psf BC DL: 6.0 psf Mean Height: 29.66 ft MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.55 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf(ASD): NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IRC 2018 Load Std: ASCE 7-16 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.131 E 999 240 VERT(CL): 0.198 E 816 180 HORZ(LL): -0.039 E - - HORZ(TL): 0.056 E - - Creep Factor: 2.0 Max TC CSI: 0.838 Max BC CSI: 0.578 Max Web CSI: 0.177 VIEW Ver: 25.02.00B.1125.14	▲ Maximum Reactions (lbs) Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 679 /- /- /357 /112 /17 I 679 /- /- /357 /112 /- Wind reactions based on MWFRS B Brg Wid = 5.5 Min Req = 1.5 (Support) I Brg Wid = 5.5 Min Req = 1.5 (Support) Bearings B & I Fcperp = 425psi. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 527 -1447 D - E 285 -1032 C - D 285 -1051 E - F 493 -1396					
				Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - H 954 -191 H - F 954 -191					

Lumber

Top chord: 2x4 SP #2;
 Bot chord: 2x4 SP #2;
 Webs: 2x4 SP #2;
 Lt Slider: 2x4 SP #2; block length = 1.500'
 Rt Slider: 2x6 SP #2; block length = 2.366'

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
BC	120	0.00	13.50

 Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Loading

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

Wind

Wind loads based on MWFRS with additional C&C member design.
 Wind loading based on both gable and hip roof types.

Snow

Overhang designed for 2.00X TC LL.

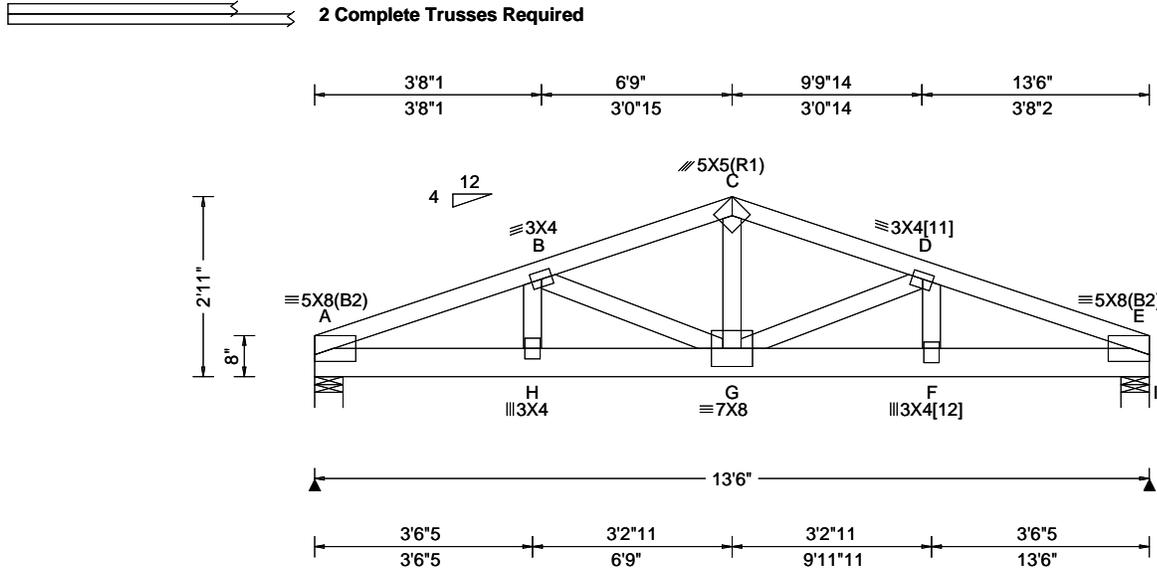
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
				Gravity			Non-Gravity			
TCLL: 25.00	Speed: 115 mph	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Loc	R+	/R-	/Rh	/Rw	/U	/RL
TCDL: 10.00	Risk Category: II	Pf(ASD): NA	VERT(LL): 0.117 G 999 240	A	5652	-	-	-	173	-
BCLL: 0.00	Enclosure: Part. Enc.	Ce: NA Lu: NA	VERT(CL): 0.212 G 748 180	I	5228	-	-	-	457	-
BCDL: 10.00	EXP: B Kzt: NA	Cs: NA Snow Duration: NA	HORZ(LL): 0.030 E - -	Wind reactions based on MWFRS						
Des Ld: 45.00	TCDL: 6.0 psf	Building Code: IRC 2018	HORZ(TL): 0.054 E - -	A Brg Wid = 5.5 Min Req = 3.9 (Support)						
NCBCLL: 0.00	BCDL: 6.0 psf	Load Std: ASCE 7-16	Creep Factor: 2.0	I Brg Wid = 5.5 Min Req = 3.6 (Support)						
Soffit: 0.00	Mean Height: 29.80 ft	TPI Std: 2014	Max TC CSI: 0.675	Bearings A & I Fcperp = 425psi.						
Load Duration: 1.15	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Varies by Ld Case	Max BC CSI: 0.738	Members not listed have forces less than 375#						
Spacing: 24.0 "	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	Max Web CSI: 0.564	Maximum Top Chord Forces Per Ply (lbs)						
	Loc. from endwall: not in 9.00 ft	Plate Type(s): WAVE	VIEW Ver: 25.02.00B.1125.14	Chords	Tens.Comp.	Chords	Tens. Comp.			
	GCpi: 0.55			A - B	187	-4806	C - D	219	-4125	
	Wind Duration: 1.60			B - C	220	-4127	D - E	397	-5034	

Lumber
 Top chord: 2x4 SP 2400f-2.0E;
 Bot chord: 2x6 SP 2400f-2.0E;
 Webs: 2x4 SP #2;

Nailnote
 Nail Schedule: 0.128"x3", min. nails
 Top Chord: 1 Row @12.00" o.c.
 Bot Chord: 2 Rows @ 4.00" o.c. (Each Row)
 Webs : 1 Row @ 4" o.c.
 Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads
 -----(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
 TC: From 71 plf at 0.00 to 71 plf at 13.50
 BC: From 20 plf at 0.00 to 20 plf at 13.50
 BC: 1457 lb Conc. Load at 1.00, 3.00, 5.00, 7.00
 BC: 1520 lb Conc. Load at 9.00
 BC: 2213 lb Conc. Load at 10.93
 BC: 88 lb Conc. Load at 13.00

Wind
 Wind loads and reactions based on MWFRS.
 Wind loading based on both gable and hip roof types.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
A - H	4485 -169	G - F	4643 -360
H - G	4444 -173	F - E	4696 -366

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
H - B	606 0	G - D	173 -792
B - G	0 -571	D - F	794 -102
C - G	2300 -85		

Plate Shift Table

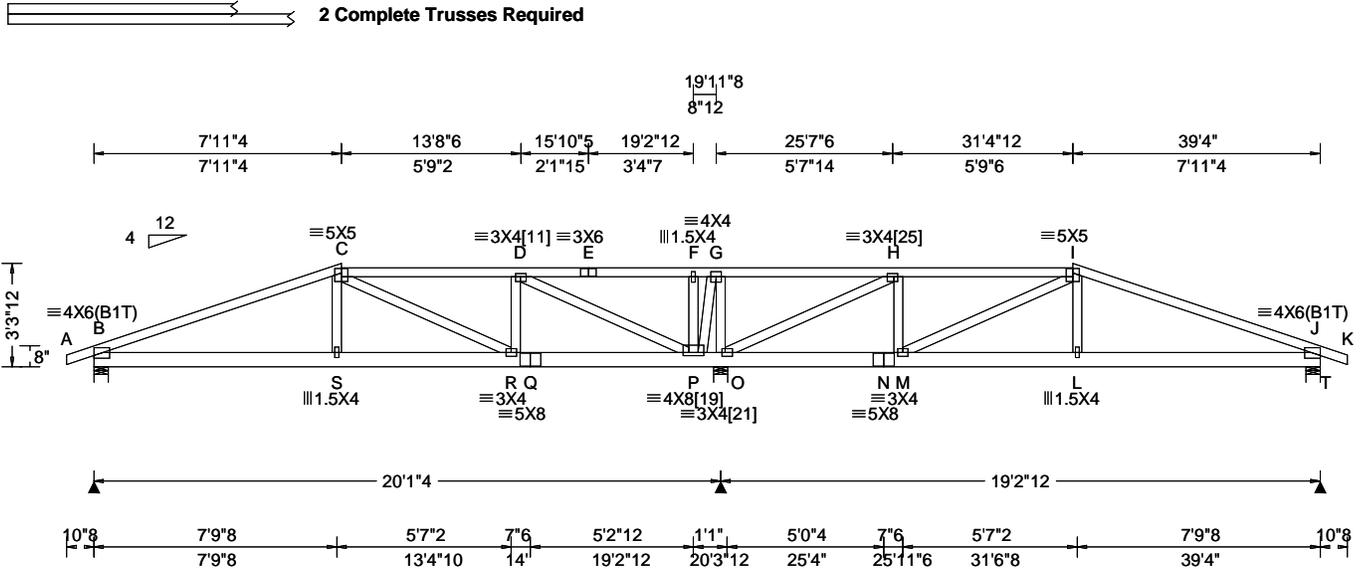
JT No	Plate Size	Lateral Shift	Chord Bite	JT No	Plate Size	Lateral Shift	Chord Bite
[11]	3X4	S	1.25	[12]	3X4	S	2.75

Purlins
 In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:
 Chord Spacing(in oc) Start(ft) End(ft)
 BC 120 0.30 13.20
 Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.



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 For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org





Loading Criteria (psf) TCLL: 25.00 TC DL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Criteria Speed: 115 mph Risk Category: II Enclosure: Part. Enc. EXP: B Kzt: NA TC DL: 6.0 psf BCDL: 6.0 psf Mean Height: 20.36 ft MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.93 ft Loc. from endwall: not in 4.50 ft GCpi: 0.55 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf(ASD): NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IRC 2018 Load Std: ASCE 7-16 TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT: 20(0)/10(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.055 S 999 240 VERT(CL): 0.098 S 999 193 HORZ(LL): 0.021 J - - HORZ(TL): 0.038 J - - Creep Factor: 2.0 Max TC CSI: 0.916 Max BC CSI: 0.858 Max Web CSI: 0.557 VIEW Ver: 25.02.00B.1125.14	▲ Maximum Reactions (lbs) <table border="1"> <thead> <tr> <th rowspan="2">Loc</th> <th colspan="3">Gravity</th> <th colspan="3">Non-Gravity</th> </tr> <tr> <th>R+</th> <th>/R-</th> <th>/Rh</th> <th>/Rw</th> <th>/U</th> <th>/RL</th> </tr> </thead> <tbody> <tr> <td>B</td> <td>945</td> <td>-</td> <td>-</td> <td>-</td> <td>/58</td> <td>-</td> </tr> <tr> <td>O</td> <td>4920</td> <td>-</td> <td>-</td> <td>-</td> <td>/250</td> <td>-</td> </tr> <tr> <td>T</td> <td>797</td> <td>-</td> <td>-</td> <td>-</td> <td>/50</td> <td>-</td> </tr> </tbody> </table> Wind reactions based on MWFRS B Brg Wid = 5.5 Min Req = 1.5 (Support) O Brg Wid = 5.5 Min Req = 3.4 (Support) T Brg Wid = 5.5 Min Req = 1.5 (Support) Bearings B, O, & T Fcperp = 425psi. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) <table border="1"> <thead> <tr> <th>Chords</th> <th>Tens.Comp.</th> <th>Chords</th> <th>Tens. Comp.</th> </tr> </thead> <tbody> <tr> <td>B - C</td> <td>53 - 1034</td> <td>F - G</td> <td>893 - 44</td> </tr> <tr> <td>C - D</td> <td>37 - 792</td> <td>G - H</td> <td>1307 - 66</td> </tr> <tr> <td>D - E</td> <td>893 - 44</td> <td>H - I</td> <td>18 - 434</td> </tr> <tr> <td>E - F</td> <td>893 - 44</td> <td>I - J</td> <td>42 - 836</td> </tr> </tbody> </table>	Loc	Gravity			Non-Gravity			R+	/R-	/Rh	/Rw	/U	/RL	B	945	-	-	-	/58	-	O	4920	-	-	-	/250	-	T	797	-	-	-	/50	-	Chords	Tens.Comp.	Chords	Tens. Comp.	B - C	53 - 1034	F - G	893 - 44	C - D	37 - 792	G - H	1307 - 66	D - E	893 - 44	H - I	18 - 434	E - F	893 - 44	I - J	42 - 836
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Lumber
 Top chord: 2x4 SP #2;
 Bot chord: 2x6 SP #2;
 Webs: 2x4 SP #2;

Nailnote
 Nail Schedule: 0.128"x3", min. nails
 Top Chord: 1 Row @ 11.25" o.c.
 Bot Chord: 1 Row @ 12.00" o.c.
 Webs : 1 Row @ 4" o.c.
 Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads
 -----(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
 TC: From 71 plf at -0.88 to 71 plf at 0.00
 TC: From 36 plf at 0.00 to 36 plf at 39.33
 TC: From 71 plf at 39.33 to 71 plf at 40.21
 BC: From 10 plf at 0.00 to 10 plf at 39.33
 TC: 268 lb Conc. Load at 8.00,10.00,12.00,14.00
 16.00,18.00,19.33,21.33,23.33,25.33,27.33,29.33
 31.33
 BC: 93 lb Conc. Load at 8.00,10.00,12.00,14.00
 16.00,18.00,19.33,21.33,23.33,25.33,27.33,29.33
 31.33

Plate Shift Table

JT No	Plate Size	Lateral Shift	Chord Bite	JT No	Plate Size	Lateral Shift	Chord Bite
[11]	3X4	2.25	R 1.25	[19]	4X8	S	1.25
[21]	3X4	2.75	R 1.50	[25]	3X4	1.50	R 1.25

Snow
 Overhang designed for 2.00X TC LL.

Purlins
 In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	24	7.94	31.40
BC	120	0.30	39.04

 Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Wind
 Wind loads and reactions based on MWFRS.
 Wind loading based on both gable and hip roof types.

Additional Notes
 Top Chord overhang(s) may be field trimmed.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - S	963 - 46	O - N	398 - 24
S - R	960 - 49	N - M	398 - 24
R - Q	761 - 43	M - L	771 - 39
Q - P	761 - 43	L - J	775 - 36
P - O	56 - 1167		

Maximum Web Forces Per Ply (lbs)

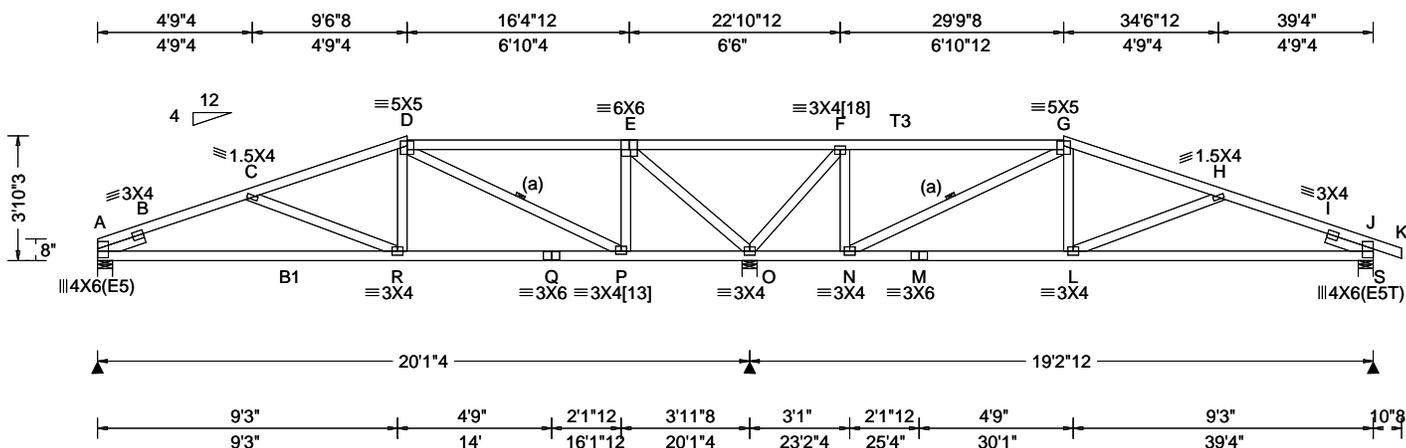
Webs	Tens.Comp.	Webs	Tens. Comp.
D - P	97 - 1792	O - H	102 - 1842
P - G	1121 - 48	M - I	24 - 417
G - O	101 - 1352		



MISSOURI COA #2005000817
 02/23/2026

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Loading Criteria (psf) TCCL: 25.00 TC DL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Criteria Speed: 115 mph Risk Category: II Enclosure: Part. Enc. EXP: B Kzt: NA TC DL: 6.0 psf BCDL: 6.0 psf Mean Height: 20.63 ft MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.93 ft Loc. from endwall: not in 9.00 ft GCpi: 0.55 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf(ASD): NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IRC 2018 Load Std: ASCE 7-16 TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/10(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.053 B 999 240 VERT(CL): 0.098 B 999 193 HORZ(LL): 0.023 J - - HORZ(TL): 0.042 J - - Creep Factor: 2.0 Max TC CSI: 0.728 Max BC CSI: 0.998 Max Web CSI: 0.740 VIEW Ver: 25.02.00B.1125.14	▲ Maximum Reactions (lbs) Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL A 835 - / - / - / 24 - / - O 2300 - / - / - / 112 - / - S 781 - / - / - / 42 - / - Wind reactions based on MWFRS A Brg Wid = 5.5 Min Req = 1.5 (Support) O Brg Wid = 5.5 Min Req = 2.9 (Support) S Brg Wid = 5.5 Min Req = 1.5 (Support) Bearings A, O, & S Fcperp = 425psi. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.					
				Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 586 -2612 F - G 389 -29 B - C 77 -1433 G - H 14 -975 C - D 28 -1161 H - I 96 -1372 E - F 1319 -86 I - J 339 -1421 Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. R - D 533 0 O - F 96 -1423 D - P 51 -1267 F - N 613 0 P - E 611 0 N - G 44 -1143 E - O 97 -1604 L - H 85 -443					

Lumber
 Top chord: 2x4 SP #2; T3 2x4 SP 2400f-2.0E;
 Bot chord: 2x4 SP #2; B1 2x4 SP 2400f-2.0E;
 Webs: 2x4 SP #2;
 Lt Slider: 2x4 SP #2; block length = 1.500'
 Rt Slider: 2x4 SP #2; block length = 1.500'

Bracing
 (a) Continuous lateral restraint equally spaced on member.

Special Loads
 ----(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
 TC: From 36 plf at 0.00 to 36 plf at 6.06
 TC: From 71 plf at 6.06 to 71 plf at 40.21
 BC: From 10 plf at 0.00 to 10 plf at 6.06
 BC: From 20 plf at 6.06 to 20 plf at 39.33
 TC: 66 lb Conc. Load at 2.06
 BC: 93 lb Conc. Load at 2.06
 BC: 157 lb Conc. Load at 4.06, 6.06

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

Wind
 Wind loads and reactions based on MWFRS.
 Wind loading based on both gable and hip roof types.

Snow
 Overhang designed for 2.00X TC LL.

Additional Notes
 Top Chord overhang(s) may be field trimmed.

Plate Shift Table

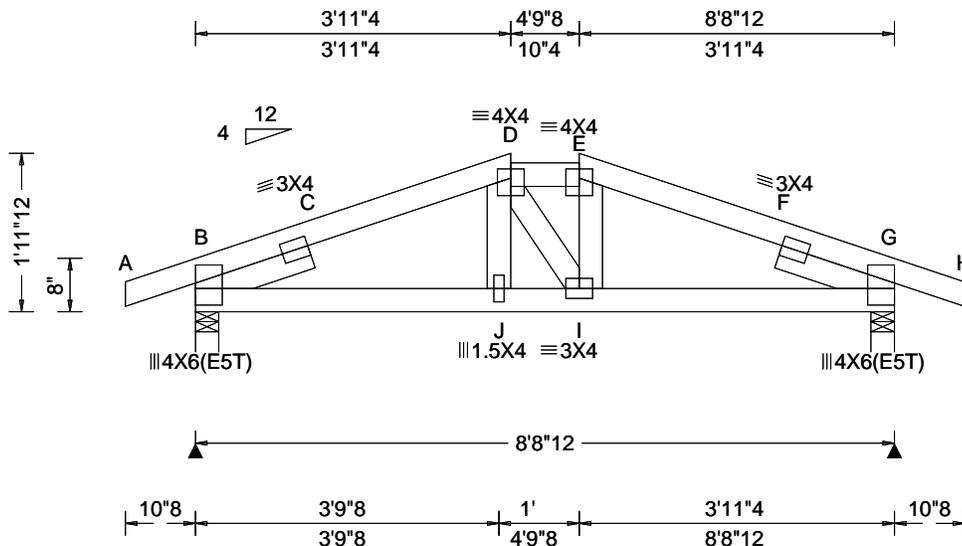
JT No	Plate Size	Lateral Shift	Chord Bite	JT No	Plate Size	Lateral Shift	Chord Bite
[13]	3X4	S	1.25	[18]	3X4	S	1.25

Purlins
 In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:
 Chord Spacing(in oc) Start(ft) End(ft)
 TC 24 9.54 29.79
 BC 84 0.00 39.33
 Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.



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Loading Criteria (psf) TCLL: 25.00 TC DL: 10.00 BC LL: 0.00 BC DL: 10.00 Des Ld: 45.00 NCBC LL: 0.00 Soffit: 0.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Criteria Speed: 115 mph Risk Category: II Enclosure: Part. Enc. EXP: B Kzt: NA TC DL: 6.0 psf BC DL: 6.0 psf Mean Height: 23.21 ft MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.55 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf(ASD): NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IRC 2018 Load Std: ASCE 7-16 TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/10(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.040 F 999 240 VERT(CL): 0.063 F 999 180 HORZ(LL): 0.015 C - - HORZ(TL): 0.024 C - - Creep Factor: 2.0 Max TC CSI: 0.561 Max BC CSI: 0.459 Max Web CSI: 0.097 VIEW Ver: 25.02.00B.1125.14	▲ Maximum Reactions (lbs) <table border="1"> <thead> <tr> <th rowspan="2">Loc</th> <th colspan="3">Gravity</th> <th colspan="3">Non-Gravity</th> </tr> <tr> <th>R+</th> <th>/R-</th> <th>/Rh</th> <th>/Rw</th> <th>/U</th> <th>/RL</th> </tr> </thead> <tbody> <tr> <td>B</td> <td>645</td> <td>-</td> <td>-</td> <td>-</td> <td>/89</td> <td>-</td> </tr> <tr> <td>G</td> <td>645</td> <td>-</td> <td>-</td> <td>-</td> <td>/89</td> <td>-</td> </tr> </tbody> </table>	Loc	Gravity			Non-Gravity			R+	/R-	/Rh	/Rw	/U	/RL	B	645	-	-	-	/89	-	G	645	-	-	-	/89	-
				Loc		Gravity			Non-Gravity																						
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Lumber
 Top chord: 2x4 SP #2;
 Bot chord: 2x4 SP #2;
 Webs: 2x4 SP #2;
 Lt Slider: 2x4 SP #2; block length = 1.500'
 Rt Slider: 2x4 SP #2; block length = 1.500'

Special Loads
 -----(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
 TC: From 71 plf at -0.88 to 71 plf at 9.61
 BC: From 10 plf at 0.00 to 10 plf at 8.73
 TC: 87 lb Conc. Load at 2.00, 6.73
 BC: 139 lb Conc. Load at 2.00, 6.73

Purlins
 In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	24	3.94	4.79
BC	105	0.00	8.73

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.
Wind
 Wind loads and reactions based on MWFRS.
 Wind loading based on both gable and hip roof types.

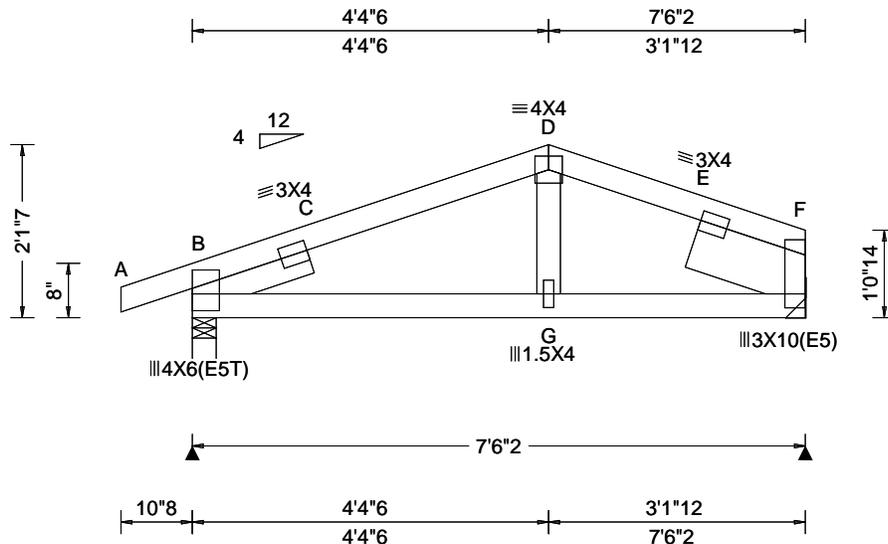
Snow
 Overhang designed for 2.00X TC LL.

Additional Notes
 Top Chord overhang(s) may be field trimmed.



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Loading Criteria (psf) TCLL: 25.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Criteria Speed: 115 mph Risk Category: II Enclosure: Part. Enc. EXP: B Kzt: NA TCDL: 6.0 psf BCDL: 6.0 psf Mean Height: 15.00 ft MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.55 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf(ASD): NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IRC 2018 Load Std: ASCE 7-16 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.034 C 999 240 VERT(CL): 0.054 C 999 180 HORZ(LL): 0.014 C - - HORZ(TL): 0.022 C - - Creep Factor: 2.0 Max TC CSI: 0.307 Max BC CSI: 0.237 Max Web CSI: 0.089 VIEW Ver: 25.02.00B.1125.14	▲ Maximum Reactions (lbs) Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 408 /- /- /200 /6 /20 F 342 /- /- /183 /5 /- Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 (Support) F Brg Wid = - Min Req = - Bearing B Fcperp = 425psi. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 264 -536 D - E 170 -430 C - D 156 -427 E - F 176 -480
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Lumber
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #2;
Lt Slider: 2x4 SP #2; block length = 1.500'
Rt Slider: 2x8 SP #1; block length = 1.500'

Purlins
In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:
Chord Spacing(in oc) Start(ft) End(ft)
BC 90 0.00 7.51
Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Wind
Wind loads based on MWFRS with additional C&C member design.
Wind loading based on both gable and hip roof types.

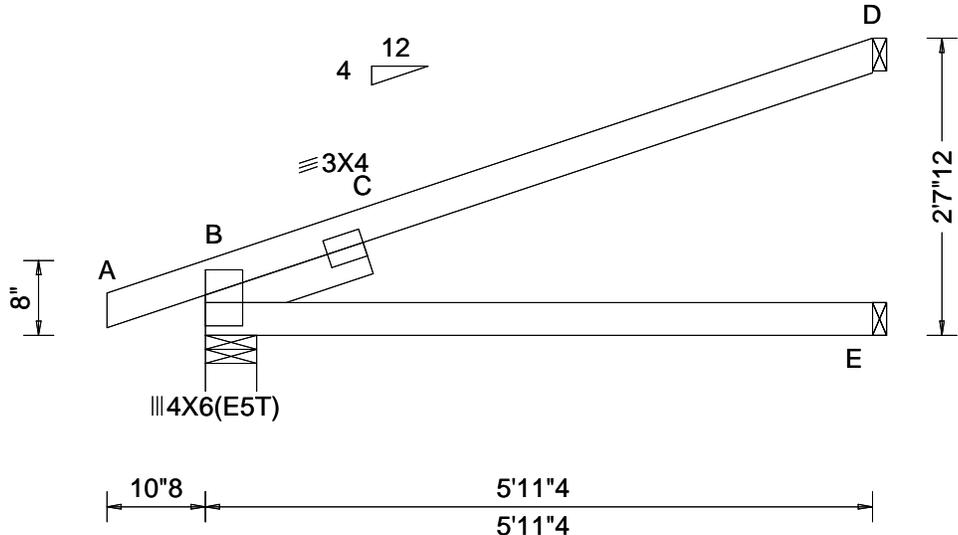
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Overhang designed for 2.00X TC LL.

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Loading Criteria (psf) TCLL: 25.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Criteria Speed: 115 mph Risk Category: II Enclosure: Part. Enc. EXP: B Kzt: NA TCDL: 6.0 psf BCDL: 6.0 psf Mean Height: 29.52 ft MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.55 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf(ASD): NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IRC 2018 Load Std: ASCE 7-16 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): 0.042 C - - HORZ(TL): 0.066 C - - Creep Factor: 2.0 Max TC CSI: 0.752 Max BC CSI: 0.425 Max Web CSI: 0.237 VIEW Ver: 25.02.00B.1125.14	▲ Maximum Reactions (lbs) Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity B 337 /- /- /162 /39 /85 E 74 /- /- /63 /- /- D 196 /- /- /91 /82 /- Wind reactions based on MWFRS B Brg Wid = 5.5 Min Req = 1.5 (Support) E Brg Wid = 1.5 Min Req = - D Brg Wid = 1.5 Min Req = - Bearing B Fcperp = 425psi. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. B - C 1027 -1151
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Lumber
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Lt Slider: 2x4 SP #2; block length = 1.500'

Purlins
In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:
Chord Spacing(in oc) Start(ft) End(ft)
BC 71 0.00 5.94
Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Wind
Wind loads based on MWFRS with additional C&C member design.
Wind loading based on both gable and hip roof types.

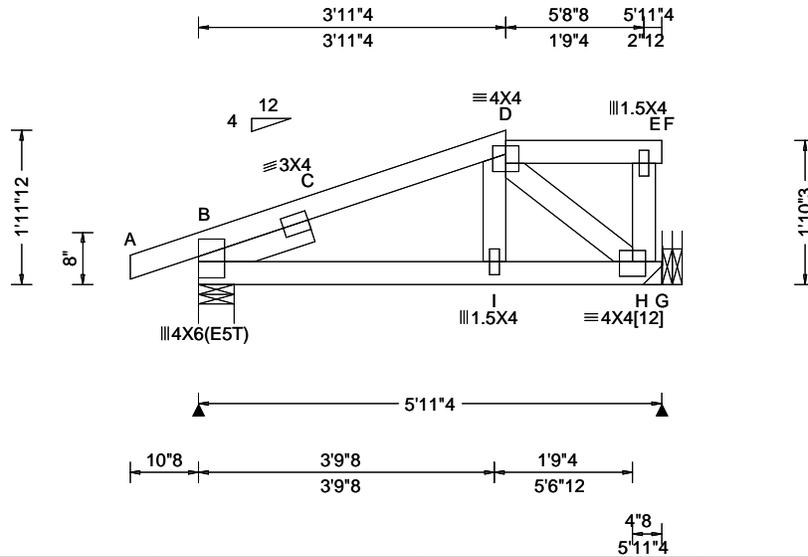
Snow
Overhang designed for 2.00X TC LL.

Additional Notes
Top Chord overhang(s) may be field trimmed.



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Loading Criteria (psf) TCLL: 25.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Criteria Speed: 115 mph Risk Category: II Enclosure: Part. Enc. EXP: B Kzt: NA TCDL: 6.0 psf BCDL: 6.0 psf Mean Height: 29.19 ft MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.55 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf(ASD): NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IRC 2018 Load Std: ASCE 7-16 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/def L/# VERT(LL): 0.029 C 999 240 VERT(CL): 0.043 C 999 180 HORZ(LL): 0.011 C - - HORZ(TL): 0.017 C - - Creep Factor: 2.0 Max TC CSI: 0.299 Max BC CSI: 0.175 Max Web CSI: 0.128 VIEW Ver: 25.02.00B.1125.14	▲ Maximum Reactions (lbs) Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 333 /- /- /162 /46 /58 G 274 /- /- /152 /52 /- Wind reactions based on MWFRS B Brg Wid = 5.5 Min Req = 1.5 (Support) G Brg Wid = - Min Req = - Bearing B Fcperp = 425psi. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. B - C 426 -570
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Lumber
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #2;
Lt Slider: 2x4 SP #2; block length = 1.500'

Additional Notes
Top Chord overhang(s) may be field trimmed.

Plate Shift Table

JT No	Plate Size	Lateral Shift	Chord Bite	JT No	Plate Size	Lateral Shift	Chord Bite
[12]	4X4	S	2.25				

Purlins
In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	24	3.94	5.94
BC	71	0.00	5.94

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Hangers / Ties
(J) Hanger Support Required, by others

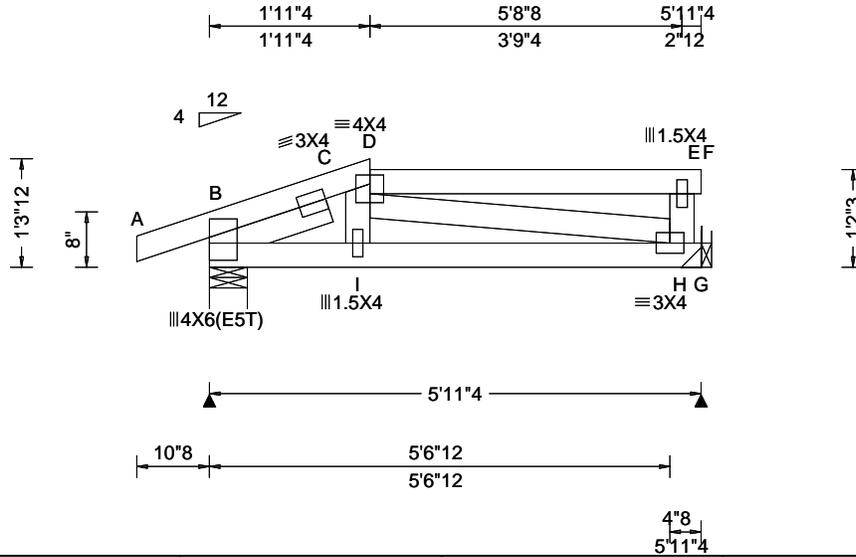
Wind
Wind loads based on MWFRS with additional C&C member design.
Right end vertical not exposed to wind pressure.
Wind loading based on both gable and hip roof types.

Snow
Overhang designed for 2.00X TC LL.



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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)																																												
TCLL: 25.00 TCCL: 10.00 BCCL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCCL: 0.00 Soffit: 0.00 Load Duration: 1.15 Spacing: 24.0 "	Speed: 115 mph Risk Category: II Enclosure: Part. Enc. EXP: B Kzt: NA TCCL: 6.0 psf BCDL: 6.0 psf Mean Height: 28.85 ft MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.55 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf(ASD): NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IRC 2018 Load Std: ASCE 7-16 TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.007 D 999 240 VERT(CL): 0.012 D 999 180 HORZ(LL): 0.002 C - - HORZ(TL): 0.003 C - - Creep Factor: 2.0 Max TC CSI: 0.182 Max BC CSI: 0.366 Max Web CSI: 0.118 VIEW Ver: 25.02.00B.1125.14	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Gravity</th> <th colspan="4">Non-Gravity</th> </tr> <tr> <th>Loc</th> <th>R+ / R-</th> <th>/ Rh</th> <th>/ Rw</th> <th>/ U</th> <th>/ RL</th> </tr> </thead> <tbody> <tr> <td>B</td> <td>348</td> <td>- / -</td> <td>- / -</td> <td>- / 82</td> <td>- / -</td> </tr> <tr> <td>G</td> <td>240</td> <td>- / -</td> <td>- / -</td> <td>- / 42</td> <td>- / -</td> </tr> </tbody> </table> <p>Wind reactions based on MWFRS B Brg Wid = 5.5 Min Req = 1.5 (Support) G Brg Wid = - Min Req = - Bearing B Fcperp = 425psi. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs)</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Chords</th> <th>Tens.Comp.</th> <th>Chords</th> <th>Tens. Comp.</th> </tr> </thead> <tbody> <tr> <td>B - C</td> <td>84 -522</td> <td>C - D</td> <td>71 -487</td> </tr> </tbody> </table> <p>Maximum Bot Chord Forces Per Ply (lbs)</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Chords</th> <th>Tens.Comp.</th> <th>Chords</th> <th>Tens. Comp.</th> </tr> </thead> <tbody> <tr> <td>B - I</td> <td>458 -68</td> <td>I - H</td> <td>434 -67</td> </tr> </tbody> </table> <p>Maximum Web Forces Per Ply (lbs)</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Webs</th> <th>Tens.Comp.</th> </tr> </thead> <tbody> <tr> <td>D - H</td> <td>64 -422</td> </tr> </tbody> </table>	Gravity		Non-Gravity				Loc	R+ / R-	/ Rh	/ Rw	/ U	/ RL	B	348	- / -	- / -	- / 82	- / -	G	240	- / -	- / -	- / 42	- / -	Chords	Tens.Comp.	Chords	Tens. Comp.	B - C	84 -522	C - D	71 -487	Chords	Tens.Comp.	Chords	Tens. Comp.	B - I	458 -68	I - H	434 -67	Webs	Tens.Comp.	D - H	64 -422
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Lumber
 Top chord: 2x4 SP #2;
 Bot chord: 2x4 SP #2;
 Webs: 2x4 SP #2;
 Lt Slider: 2x4 SP #2; block length = 1.500'

Snow
 Overhang designed for 2.00X TC LL.

Additional Notes
 Top Chord overhang(s) may be field trimmed.

Special Loads
 -----(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
 TC: From 71 plf at -0.88 to 71 plf at 1.94
 TC: From 36 plf at 1.94 to 36 plf at 5.94
 BC: From 10 plf at 0.00 to 10 plf at 5.94
 TC: 23 lb Conc. Load at 1.95
 TC: 20 lb Conc. Load at 4.00
 BC: 71 lb Conc. Load at 1.95
 BC: 68 lb Conc. Load at 4.00

Purlins
 In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	24	1.94	5.94
BC	71	0.00	5.94

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Hangers / Ties
 (J) Hanger Support Required, by others

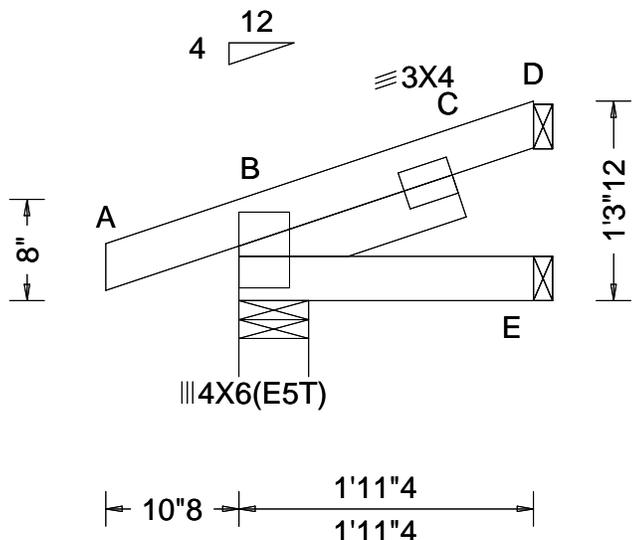
Wind
 Wind loads and reactions based on MWFRS.
 Right end vertical not exposed to wind pressure.
 Wind loading based on both gable and hip roof types.



MISSOURI COA #2005000817
 02/23/2026

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Loading Criteria (psf) TCCL: 25.00 TCCL: 10.00 BCCL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCCL: 0.00 Soffit: 0.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Criteria Speed: 115 mph Risk Category: II Enclosure: Part. Enc. EXP: B Kzt: NA TCCL: 6.0 psf BCDL: 6.0 psf Mean Height: 28.85 ft MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.55 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf(ASD): NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IRC 2018 Load Std: ASCE 7-16 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): 0.001 C - - HORZ(TL): 0.002 C - - Creep Factor: 2.0 Max TC CSI: 0.100 Max BC CSI: 0.024 Max Web CSI: 0.008 VIEW Ver: 25.02.00B.1125.14	▲ Maximum Reactions (lbs) <table border="1"> <thead> <tr> <th rowspan="2">Loc</th> <th colspan="3">Gravity</th> <th colspan="3">Non-Gravity</th> </tr> <tr> <th>R+</th> <th>/R-</th> <th>/Rh</th> <th>/Rw</th> <th>/U</th> <th>/RL</th> </tr> </thead> <tbody> <tr> <td>B</td> <td>170</td> <td>/-</td> <td>/-</td> <td>/66</td> <td>/18</td> <td>/32</td> </tr> <tr> <td>E</td> <td>20</td> <td>/-</td> <td>/-</td> <td>/19</td> <td>/-</td> <td>/-</td> </tr> <tr> <td>D</td> <td>68</td> <td>/-2</td> <td>/-</td> <td>/31</td> <td>/28</td> <td>/-</td> </tr> </tbody> </table> Wind reactions based on MWFRS B Brg Wid = 5.5 Min Req = 1.5 (Support) E Brg Wid = 1.5 Min Req = - D Brg Wid = 1.5 Min Req = - Bearing B Fcperp = 425psi. Members not listed have forces less than 375#	Loc	Gravity			Non-Gravity			R+	/R-	/Rh	/Rw	/U	/RL	B	170	/-	/-	/66	/18	/32	E	20	/-	/-	/19	/-	/-	D	68	/-2	/-	/31	/28	/-
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 In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
BC	23	0.00	1.94

 Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Wind
 Wind loads based on MWFRS with additional C&C member design.
 Wind loading based on both gable and hip roof types.

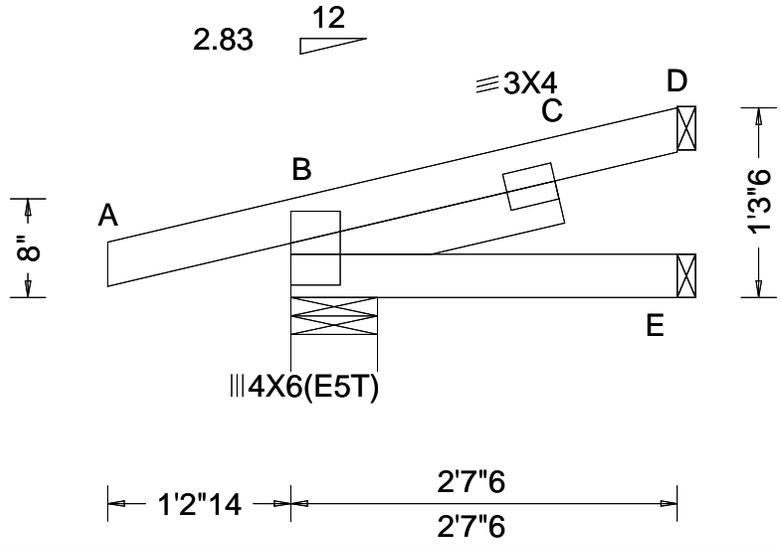
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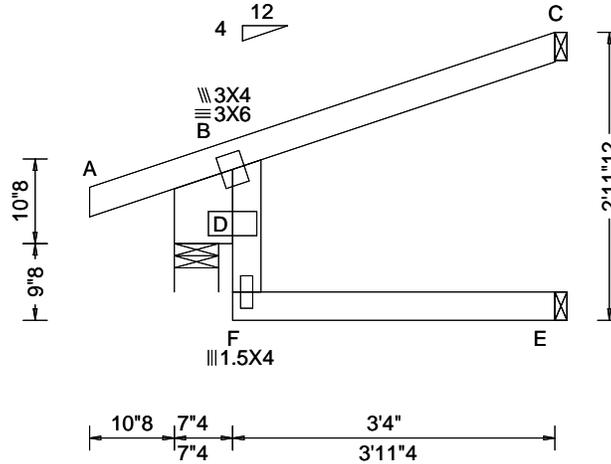


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Loading Criteria (psf) TCLL: 25.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Criteria Speed: 115 mph Risk Category: II Enclosure: Part. Enc. EXP: B Kzt: NA TCDL: 6.0 psf BCDL: 6.0 psf Mean Height: 21.76 ft MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.55 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf(ASD): NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IRC 2018 Load Std: ASCE 7-16 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.006 B 999 240 VERT(CL): 0.009 F 999 180 HORZ(LL): 0.002 B - - HORZ(TL): 0.003 B - - Creep Factor: 2.0 Max TC CSI: 0.283 Max BC CSI: 0.086 Max Web CSI: 0.010 VIEW Ver: 25.02.00B.1125.14	▲ Maximum Reactions (lbs) Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity D 261 /- /- /115 /34 /- E 33 /- /- /33 /- /10 C 128 /- /- /51 /9 /64 Wind reactions based on MWFRS D Brg Wid = 5.5 Min Req = 1.5 (Support) E Brg Wid = 1.5 Min Req = - C Brg Wid = 1.5 Min Req = - Bearing D Fcperp = 565psi. Members not listed have forces less than 375#
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Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #2;
Lt Bearing Leg: 2x8 SP #1;

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:
Chord Spacing(in oc) Start(ft) End(ft)
BC 40 0.00 3.33
Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Wind

Wind loads based on MWFRS with additional C&C member design.
Wind loading based on both gable and hip roof types.

Snow

Overhang designed for 2.00X TC LL.

Additional Notes

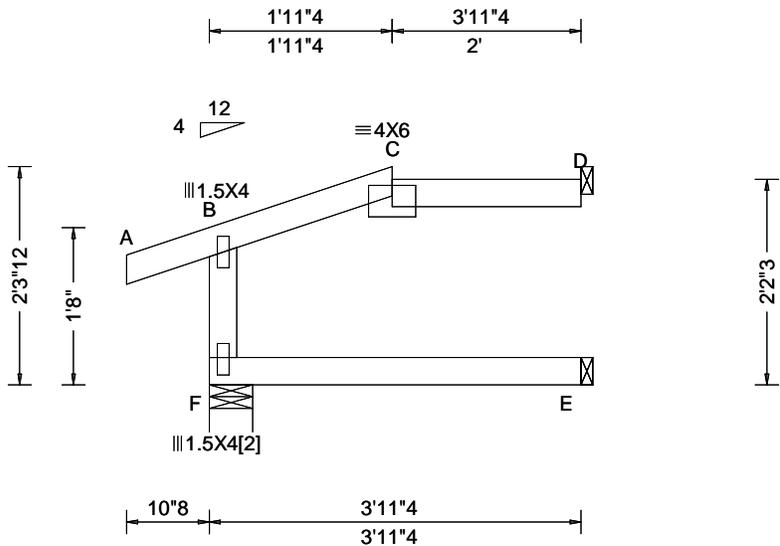
Top Chord overhang(s) may be field trimmed.



MISSOURI COA #2005000817
02/23/2026

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Loading Criteria (psf) TCLL: 25.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Criteria Speed: 115 mph Risk Category: II Enclosure: Part. Enc. EXP: B Kzt: NA TCDL: 6.0 psf BCDL: 6.0 psf Mean Height: 30.85 ft MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.55 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf(ASD): NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IRC 2018 Load Std: ASCE 7-16 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.055 C 856 240 VERT(CL): 0.078 C 602 180 HORZ(LL): -0.018 B - - HORZ(TL): 0.026 B - - Creep Factor: 2.0 Max TC CSI: 0.310 Max BC CSI: 0.123 Max Web CSI: 0.055 VIEW Ver: 25.02.00B.1125.14	▲ Maximum Reactions (lbs) Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL F 248 /- /- /116 /36 /- E 39 /- /- /39 /- /20 D 140 /- /- /57 /46 /41 Wind reactions based on MWFRS F Brg Wid = 5.5 Min Req = 1.5 (Support) E Brg Wid = 1.5 Min Req = - D Brg Wid = 1.5 Min Req = - Bearing F Fcperp = 425psi. Members not listed have forces less than 375#
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Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #2;

Plate Shift Table

JT No	Plate Size	Lateral Shift	Chord Bite	JT No	Plate Size	Lateral Shift	Chord Bite
[2]	1.5X4	S	2.25				

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	24	1.94	3.94
BC	47	0.00	3.94

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Wind

Wind loads based on MWFRS.
Left end vertical exposed to wind pressure.
Deflection meets L/180.
Wind loading based on both gable and hip roof types.

Snow

Overhang designed for 2.00X TC LL.

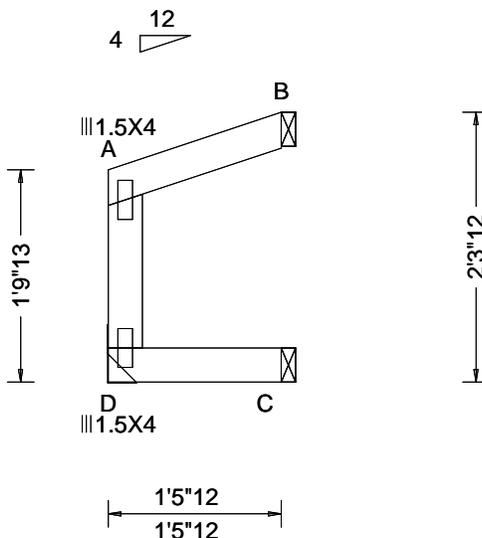
Additional Notes

Top Chord overhang(s) may be field trimmed.



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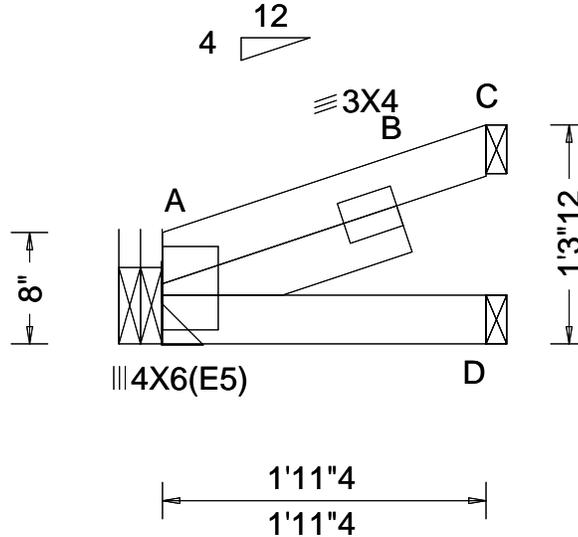


Loading Criteria (psf) TCCL: 25.00 TCCL: 10.00 BCCL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCCL: 0.00 Soffit: 0.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Criteria Speed: 115 mph Risk Category: II Enclosure: Part. Enc. EXP: B Kzt: NA TCCL: 6.0 psf BCDL: 6.0 psf Mean Height: 31.08 ft MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.55 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf(ASD): NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IRC 2018 Load Std: ASCE 7-16 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 240 VERT(CL): 0.000 A 999 180 HORZ(LL): 0.000 A - - HORZ(TL): 0.000 A - - Creep Factor: 2.0 Max TC CSI: 0.041 Max BC CSI: 0.015 Max Web CSI: 0.038 VIEW Ver: 25.02.00B.1125.14	▲ Maximum Reactions (lbs) <table border="1"> <thead> <tr> <th rowspan="2">Loc</th> <th colspan="3">Gravity</th> <th colspan="3">Non-Gravity</th> </tr> <tr> <th>R+</th> <th>/R-</th> <th>/Rh</th> <th>/Rw</th> <th>/U</th> <th>/RL</th> </tr> </thead> <tbody> <tr> <td>D</td> <td>67</td> <td>/-</td> <td>/-</td> <td>/47</td> <td>/21</td> <td>/-</td> </tr> <tr> <td>C</td> <td>15</td> <td>/-</td> <td>/-</td> <td>/15</td> <td>/-</td> <td>/23</td> </tr> <tr> <td>B</td> <td>53</td> <td>/-</td> <td>/-</td> <td>/22</td> <td>/11</td> <td>/45</td> </tr> </tbody> </table> Wind reactions based on MWFRS D Brg Wid = - Min Req = - C Brg Wid = 1.5 Min Req = - B Brg Wid = 1.5 Min Req = - Members not listed have forces less than 375#	Loc	Gravity			Non-Gravity			R+	/R-	/Rh	/Rw	/U	/RL	D	67	/-	/-	/47	/21	/-	C	15	/-	/-	/15	/-	/23	B	53	/-	/-	/22	/11	/45
				Loc		Gravity			Non-Gravity																													
R+	/R-	/Rh	/Rw		/U	/RL																																
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Lumber Top chord: 2x4 SP #2; Bot chord: 2x4 SP #2; Webs: 2x4 SP #2; Purlins In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows: <table border="1"> <thead> <tr> <th>Chord</th> <th>Spacing(in oc)</th> <th>Start(ft)</th> <th>End(ft)</th> </tr> </thead> <tbody> <tr> <td>BC</td> <td>18</td> <td>0.00</td> <td>1.48</td> </tr> </tbody> </table> Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above. Hangers / Ties (J) Hanger Support Required, by others Wind Wind loads based on MWFRS with additional C&C member design. Left end vertical exposed to wind pressure. Deflection meets L/180. Wind loading based on both gable and hip roof types.					Chord	Spacing(in oc)	Start(ft)	End(ft)	BC	18	0.00	1.48																										
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Loading Criteria (psf) TCCL: 25.00 TCCL: 10.00 BCCL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCCL: 0.00 Soffit: 0.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Criteria Speed: 115 mph Risk Category: II Enclosure: Part. Enc. EXP: B Kzt: NA TCCL: 6.0 psf BCDL: 6.0 psf Mean Height: 29.00 ft MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.55 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf(ASD): NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IRC 2018 Load Std: ASCE 7-16 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): 0.001 B - - HORZ(TL): 0.002 B - - Creep Factor: 2.0 Max TC CSI: 0.080 Max BC CSI: 0.024 Max Web CSI: 0.007 VIEW Ver: 25.02.00B.1125.14	▲ Maximum Reactions (lbs) <table border="1"> <thead> <tr> <th rowspan="2">Loc</th> <th colspan="3">Gravity</th> <th colspan="3">Non-Gravity</th> </tr> <tr> <th>R+</th> <th>/R-</th> <th>/Rh</th> <th>/Rw</th> <th>/U</th> <th>/RL</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>88</td> <td>/-</td> <td>/-</td> <td>/47</td> <td>/-</td> <td>/18</td> </tr> <tr> <td>D</td> <td>20</td> <td>/-</td> <td>/-</td> <td>/19</td> <td>/-</td> <td>/-</td> </tr> <tr> <td>C</td> <td>68</td> <td>/-</td> <td>/-</td> <td>/32</td> <td>/19</td> <td>/-</td> </tr> </tbody> </table> Wind reactions based on MWFRS A Brg Wid = - Min Req = - D Brg Wid = 1.5 Min Req = - C Brg Wid = 1.5 Min Req = - Members not listed have forces less than 375#	Loc	Gravity			Non-Gravity			R+	/R-	/Rh	/Rw	/U	/RL	A	88	/-	/-	/47	/-	/18	D	20	/-	/-	/19	/-	/-	C	68	/-	/-	/32	/19	/-
				Loc		Gravity			Non-Gravity																													
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Lumber Top chord: 2x4 SP #2; Bot chord: 2x4 SP #2; Lt Slider: 2x4 SP #2; block length = 1.500'																																						

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
BC	23	0.00	1.94

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Hangers / Ties

(J) Hanger Support Required, by others

Wind

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

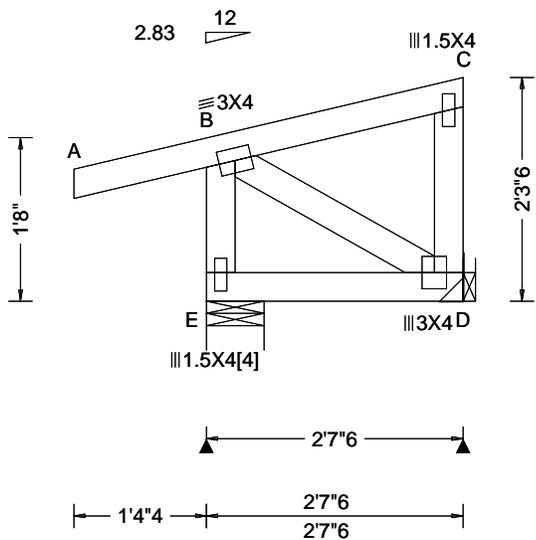
Wind loading based on both gable and hip roof types.



MISSOURI COA #2005000817
02/23/2026

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Loading Criteria (psf) TCCL: 25.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Criteria Speed: 115 mph Risk Category: II Enclosure: Part. Enc. EXP: B Kzt: NA TCDL: 6.0 psf BCDL: 6.0 psf Mean Height: 30.83 ft MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.55 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf(ASD): NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IRC 2018 Load Std: ASCE 7-16 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.000 B 999 240 VERT(CL): 0.001 B 999 180 HORZ(LL): -0.000 C - - HORZ(TL): 0.001 C - - Creep Factor: 2.0 Max TC CSI: 0.239 Max BC CSI: 0.047 Max Web CSI: 0.047 VIEW Ver: 25.02.00B.1125.14	▲ Maximum Reactions (lbs) Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL E 258 /- /- /91 /41 /72 D 118 /- /- /77 /46 /- Wind reactions based on MWFRS E Brg Wid = 7.0 Min Req = 1.5 (Support) D Brg Wid = - Min Req = - Bearing E Fcperp = 425psi. Members not listed have forces less than 375#
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Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #2;

Plate Shift Table

JT No	Plate Size	Lateral Shift	Chord Bite	JT No	Plate Size	Lateral Shift	Chord Bite
[4]	1.5X4	S	2.25				

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
BC	31	0.00	2.62

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Wind

Wind loads based on MWFRS.
Left end vertical exposed to wind pressure.
Deflection meets L/180.
Right end vertical not exposed to wind pressure.
Wind loading based on both gable and hip roof types.

Snow

Overhang designed for 2.00X TC LL.

Additional Notes

Top Chord overhang(s) may be field trimmed.

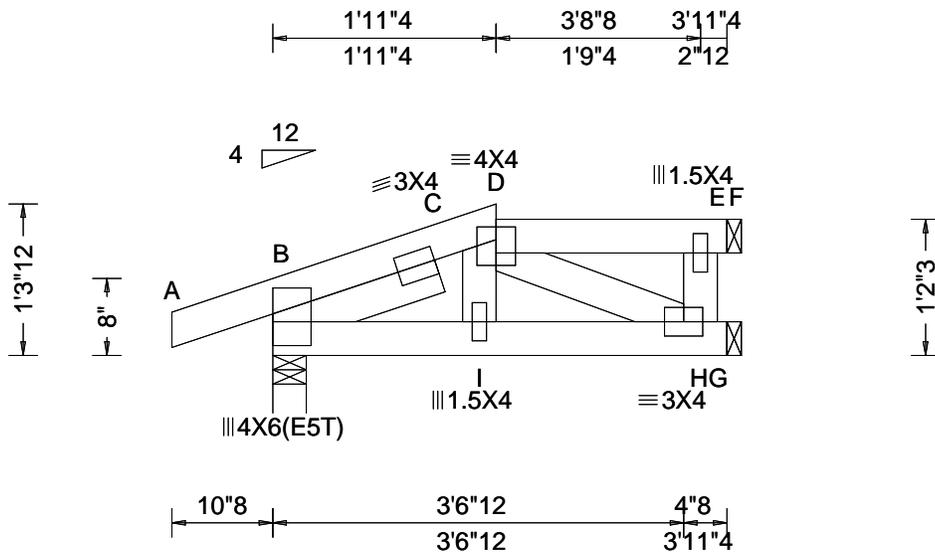


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SEQN: 10009 / FROM:	NEJA Ply: 1 Qty: 2	Job Number: PM000108 Customer - Clayton Properties Plan Name - Carolina Elevation - Modern Prairie Truss Label: J24	Cust: R 9646 JRef: 1YHW96460004 T1 / DrwNo: 054.26.1301.07493 / BM 02/23/2026
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Loading Criteria (psf) TCLL: 25.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Criteria Speed: 115 mph Risk Category: II Enclosure: Part. Enc. EXP: B Kzt: NA TCDL: 6.0 psf BCDL: 6.0 psf Mean Height: 15.00 ft MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.55 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf(ASD): NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IRC 2018 Load Std: ASCE 7-16 TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/10(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.003 C 999 240 VERT(CL): 0.005 C 999 180 HORZ(LL): 0.001 C - - HORZ(TL): 0.002 C - - Creep Factor: 2.0 Max TC CSI: 0.100 Max BC CSI: 0.119 Max Web CSI: 0.041 VIEW Ver: 25.02.00B.1125.14	▲ Maximum Reactions (lbs) Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity B 296 /- /- /- /19 /- G 139 /- /- /- /13 /- F 87 /- /- /9 /- /- Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 (Support) G Brg Wid = 1.5 Min Req = - F Brg Wid = 1.5 Min Req = - Bearing B Fcperp = 425psi. Members not listed have forces less than 375#
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Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #2;
Lt Slider: 2x4 SP #2; block length = 1.500'

Special Loads

----- (Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 71 plf at -0.88 to 71 plf at 3.94
BC: From 20 plf at 0.00 to 20 plf at 3.94
TC: 71 lb Conc. Load at 1.95
BC: 23 lb Conc. Load at 1.95

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	24	1.94	3.94
BC	47	0.00	3.94

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Wind

Wind loads and reactions based on MWFRS.
Wind loading based on both gable and hip roof types.

Snow

Overhang designed for 2.00X TC LL.

Additional Notes

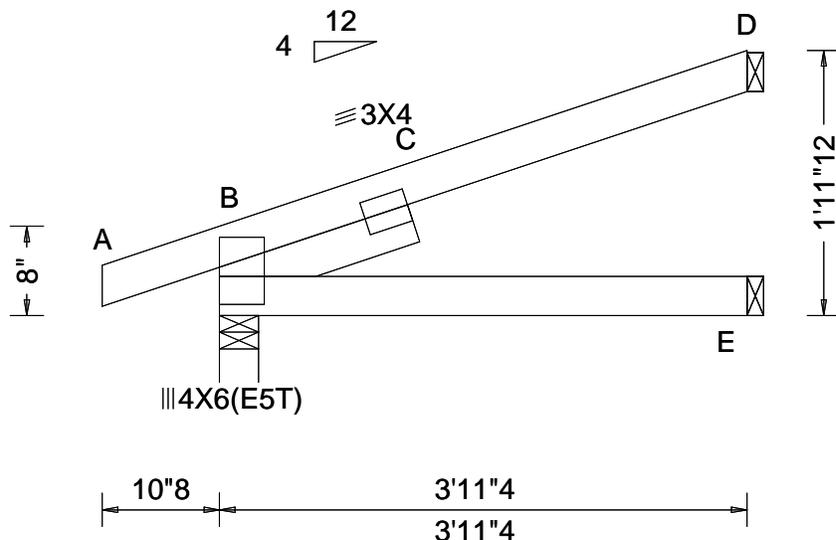
Top Chord overhang(s) may be field trimmed.



MISSOURI COA #2005000817
02/23/2026

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Loading Criteria (psf) TCLL: 25.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Criteria Speed: 115 mph Risk Category: II Enclosure: Part. Enc. EXP: B Kzt: NA TCDL: 6.0 psf BCDL: 6.0 psf Mean Height: 23.21 ft MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.55 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf(ASD): NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IRC 2018 Load Std: ASCE 7-16 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): 0.013 C - - HORZ(TL): 0.020 C - - Creep Factor: 2.0 Max TC CSI: 0.322 Max BC CSI: 0.157 Max Web CSI: 0.086 VIEW Ver: 25.02.00B.1125.14	▲ Maximum Reactions (lbs) Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity B 248 /- /- /113 /15 /50 E 47 /- /- /41 /- /- D 132 /- /- /62 /44 /- Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 (Support) E Brg Wid = 1.5 Min Req = - D Brg Wid = 1.5 Min Req = - Bearing B Fcperp = 425psi. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. B - C 357 -427
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Lumber
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Lt Slider: 2x4 SP #2; block length = 1.500'

Purlins
In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:
Chord Spacing(in oc) Start(ft) End(ft)
BC 47 0.00 3.94
Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Wind
Wind loads based on MWFRS with additional C&C member design.
Wind loading based on both gable and hip roof types.

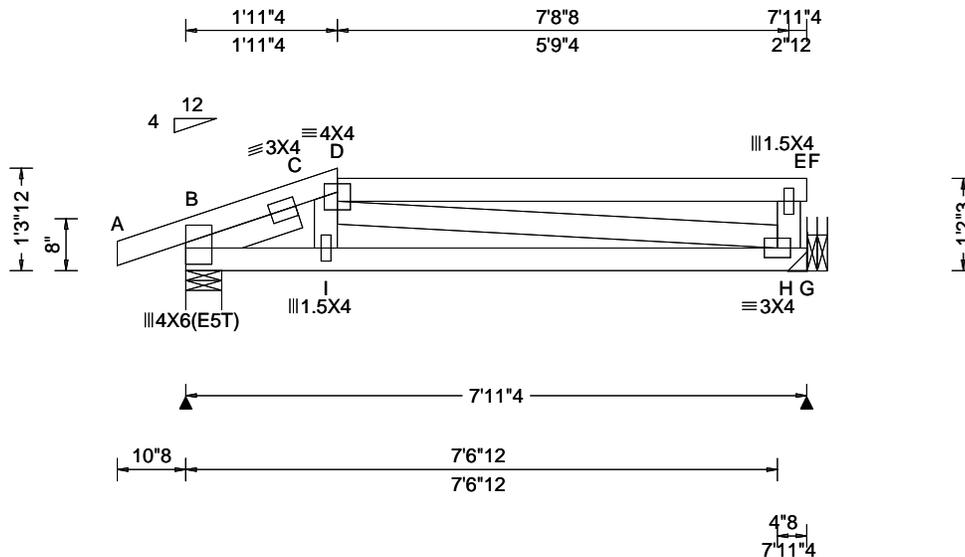
Snow
Overhang designed for 2.00X TC LL.

Additional Notes
Top Chord overhang(s) may be field trimmed.



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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 25.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.15 Spacing: 24.0 "	Speed: 115 mph Risk Category: II Enclosure: Part. Enc. EXP: B Kzt: NA TCDL: 6.0 psf BCDL: 6.0 psf Mean Height: 19.36 ft MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.55 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf(ASD): NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IRC 2018 Load Std: ASCE 7-16 TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.012 D 999 240 VERT(CL): 0.023 D 999 180 HORZ(LL): 0.004 D - - HORZ(TL): 0.008 D - - Creep Factor: 2.0 Max TC CSI: 0.934 Max BC CSI: 0.295 Max Web CSI: 0.327 VIEW Ver: 25.02.00B.1125.14	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 439 /- /- /- /66 /- G 327 /- /- /- /40 /- Wind reactions based on MWFRS B Brg Wid = 5.5 Min Req = 1.5 (Support) G Brg Wid = - Min Req = - Bearing B Fcperp = 425psi. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 59 -678 C - D 50 -642

Lumber Top chord: 2x4 SP #2; Bot chord: 2x4 SP #2; Webs: 2x4 SP #2; Lt Slider: 2x4 SP #2; block length = 1.500'	Snow Overhang designed for 2.00X TC LL. Additional Notes Top Chord overhang(s) may be field trimmed.	Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - I 605 -49 I - H 604 -54
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Special Loads -----(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15) TC: From 71 plf at -0.88 to 71 plf at 1.94 TC: From 36 plf at 1.94 to 36 plf at 7.94 BC: From 10 plf at 0.00 to 10 plf at 7.94 TC: 23 lb Conc. Load at 1.95 TC: 20 lb Conc. Load at 4.00, 6.00 BC: 71 lb Conc. Load at 1.95 BC: 68 lb Conc. Load at 4.00, 6.00	Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. D - H 42 -529
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Purlins
In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	24	1.94	7.94
BC	95	0.00	7.94

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

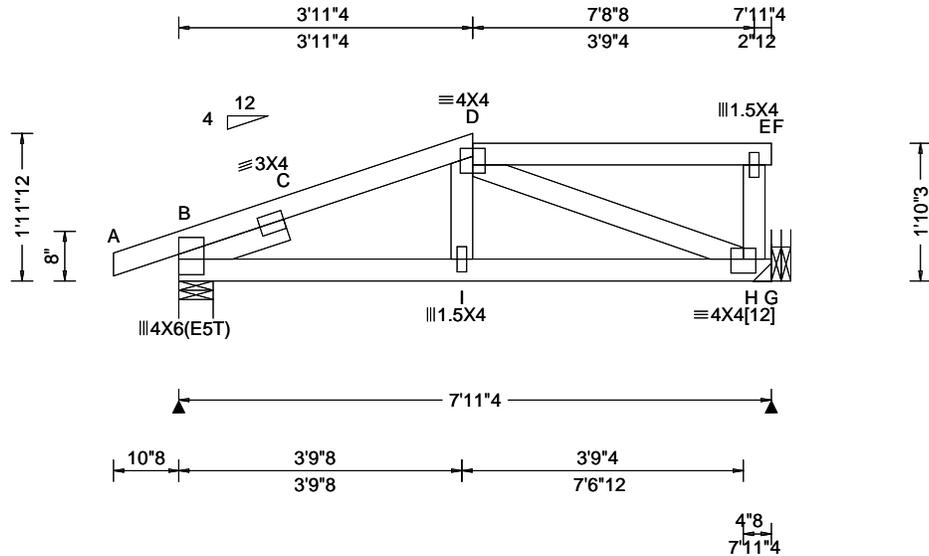
Hangers / Ties
(J) Hanger Support Required, by others

Wind
Wind loads and reactions based on MWFRS.
Right end vertical not exposed to wind pressure.
Wind loading based on both gable and hip roof types.



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Loading Criteria (psf) TCLL: 25.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Criteria Speed: 115 mph Risk Category: II Enclosure: Part. Enc. EXP: B Kzt: NA TCDL: 6.0 psf BCDL: 6.0 psf Mean Height: 19.70 ft MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.55 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf(ASD): NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IRC 2018 Load Std: ASCE 7-16 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.030 C 999 240 VERT(CL): 0.044 C 999 180 HORZ(LL): 0.011 C - - HORZ(TL): 0.017 C - - Creep Factor: 2.0 Max TC CSI: 0.319 Max BC CSI: 0.213 Max Web CSI: 0.145 VIEW Ver: 25.02.00B.1125.14	▲ Maximum Reactions (lbs) Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 423 /- /- /208 /23 /45 G 365 /- /- /198 /29 /- Wind reactions based on MWFRS B Brg Wid = 5.5 Min Req = 1.5 (Support) G Brg Wid = - Min Req = - Bearing B Fcperp = 425psi. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 286 -593 C - D 198 -505
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Lumber
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #2;
Lt Slider: 2x4 SP #2; block length = 1.500'

Additional Notes
Top Chord overhang(s) may be field trimmed.

Maximum Bot Chord Forces Per Ply (lbs)			
Chords	Tens.Comp.	Chords	Tens. Comp.
B - I	459 -220	I - H	450 -224

Plate Shift Table

JT No	Plate Size	Lateral Shift	Chord Bite	JT No	Plate Size	Lateral Shift	Chord Bite
[12]	4X4	S	2.25				

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.
D - H	233 -471

Purlins
In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	24	3.94	7.94
BC	95	0.00	7.94

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Hangers / Ties
(J) Hanger Support Required, by others

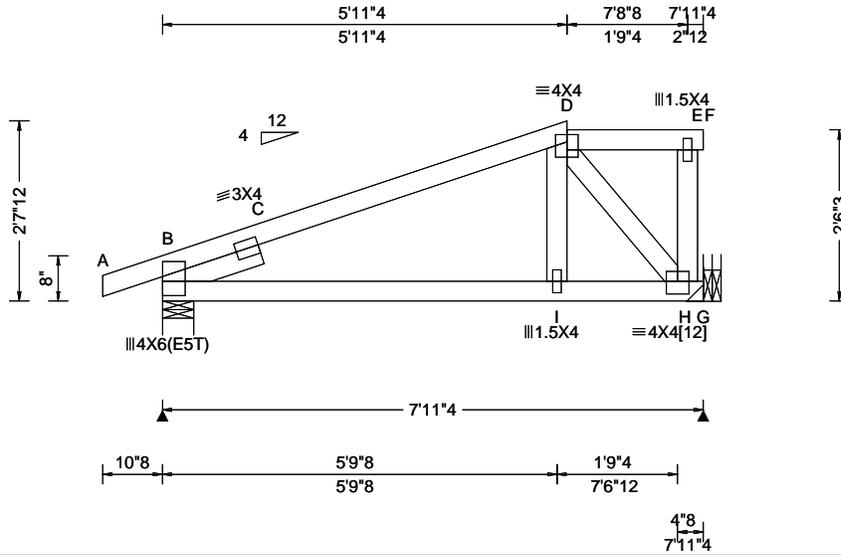
Wind
Wind loads based on MWFRS with additional C&C member design.
Right end vertical not exposed to wind pressure.
Wind loading based on both gable and hip roof types.

Snow
Overhang designed for 2.00X TC LL.



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Loading Criteria (psf) TCLL: 25.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Criteria Speed: 115 mph Risk Category: II Enclosure: Part. Enc. EXP: B Kzt: NA TCDL: 6.0 psf BCDL: 6.0 psf Mean Height: 20.03 ft MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.55 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf(ASD): NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IRC 2018 Load Std: ASCE 7-16 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.097 C 975 240 VERT(CL): 0.146 C 646 180 HORZ(LL): 0.038 C - - HORZ(TL): 0.057 C - - Creep Factor: 2.0 Max TC CSI: 0.716 Max BC CSI: 0.378 Max Web CSI: 0.213 VIEW Ver: 25.02.00B.1125.14	▲ Maximum Reactions (lbs) Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 423 /- /- /208 /19 /66 G 365 /- /- /203 /35 /- Wind reactions based on MWFRS B Brg Wid = 5.5 Min Req = 1.5 (Support) G Brg Wid = - Min Req = - Bearing B Fcperp = 425psi. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. B - C 959 - 1239
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Lumber
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #2;
Lt Slider: 2x4 SP #2; block length = 1.500'

Additional Notes
Top Chord overhang(s) may be field trimmed.

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.
D - H	184 -412

Plate Shift Table

JT No	Plate Size	Lateral Shift	Chord Bite	JT No	Plate Size	Lateral Shift	Chord Bite
[12]	4X4	S	2.25				

Purlins
In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	24	5.94	7.94
BC	95	0.00	7.94

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Hangers / Ties
(J) Hanger Support Required, by others

Wind
Wind loads based on MWFRS with additional C&C member design.
Right end vertical not exposed to wind pressure.
Wind loading based on both gable and hip roof types.

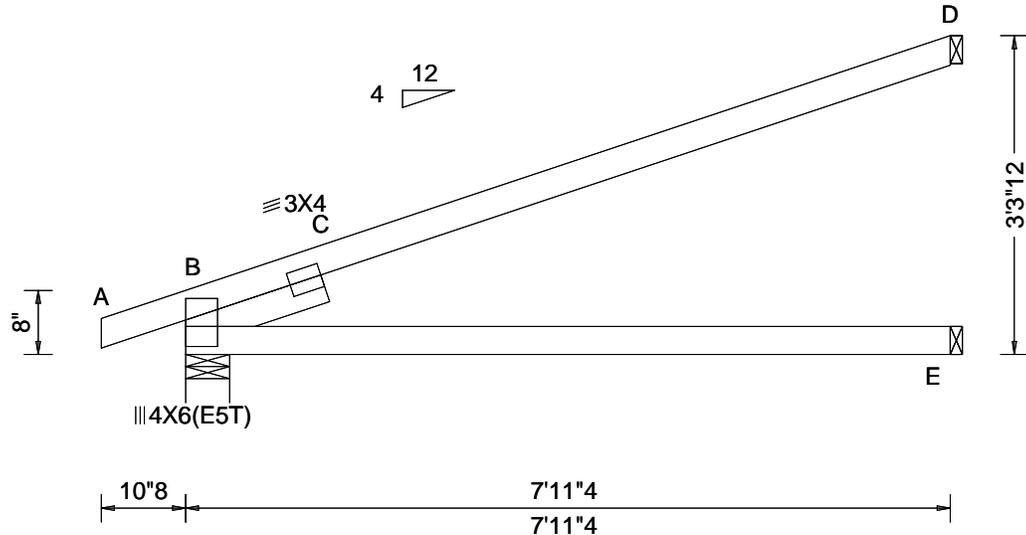
Snow
Overhang designed for 2.00X TC LL.



MISSOURI COA #2005000817
02/23/2026

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Loading Criteria (psf) TCLL: 25.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Criteria Speed: 115 mph Risk Category: II Enclosure: Part. Enc. EXP: B Kzt: NA TCDL: 6.0 psf BCDL: 6.0 psf Mean Height: 15.00 ft MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.55 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf(ASD): NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IRC 2018 Load Std: ASCE 7-16 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): 0.072 C - - HORZ(TL): 0.116 C - - Creep Factor: 2.0 Max TC CSI: 0.669 Max BC CSI: 0.535 Max Web CSI: 0.299 VIEW Ver: 25.02.00B.1125.14	▲ Maximum Reactions (lbs) Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 427 /- /- /207 /- /73 E 93 /- /- /81 /- /- D 268 /- /- /127 /56 /- Wind reactions based on MWFRS B Brg Wid = 5.5 Min Req = 1.5 (Support) E Brg Wid = 1.5 Min Req = - D Brg Wid = 1.5 Min Req = - Bearing B Fcperp = 425psi. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. B - C 1373 - 1524
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Lumber
Top chord: 2x4 SP 2400f-2.0E;
Bot chord: 2x4 SP #2;
Lt Slider: 2x4 SP #2; block length = 1.500'

Purlins
In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:
Chord Spacing(in oc) Start(ft) End(ft)
BC 95 0.00 7.94
Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

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

Wind
Wind loads based on MWFRS with additional C&C member design.
Wind loading based on both gable and hip roof types.

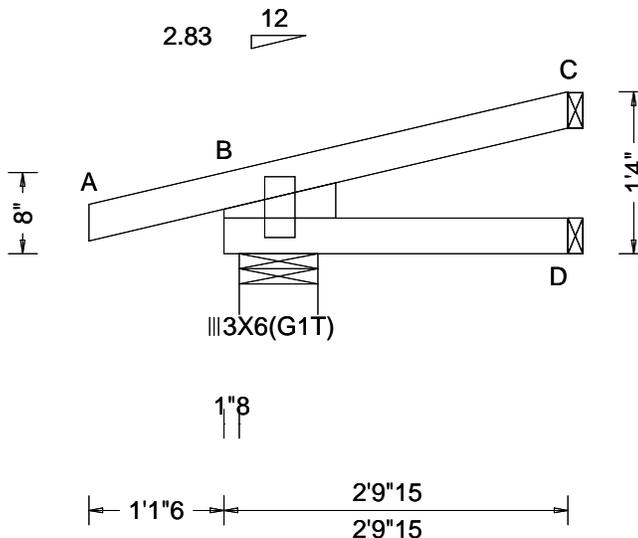
Snow
Overhang designed for 2.00X TC LL.

Additional Notes
Top Chord overhang(s) may be field trimmed.



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Loading Criteria (psf) TCLL: 25.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Criteria Speed: 115 mph Risk Category: II Enclosure: Part. Enc. EXP: B Kzt: NA TCDL: 6.0 psf BCDL: 6.0 psf Mean Height: 19.39 ft MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.55 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf(ASD): NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IRC 2018 Load Std: ASCE 7-16 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): -0.001 C - - HORZ(TL): 0.002 C - - Creep Factor: 2.0 Max TC CSI: 0.073 Max BC CSI: 0.067 Max Web CSI: 0.000 VIEW Ver: 25.02.00B.1125.14	▲ Maximum Reactions (lbs) Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 222 /- /- /91 /22 /26 D 33 /- /- /28 /- /- C 96 /- /- /41 /25 /- Wind reactions based on MWFRS B Brg Wid = 7.8 Min Req = 1.5 (Support) D Brg Wid = 1.5 Min Req = - C Brg Wid = 1.5 Min Req = - Bearing B Fcperp = 425psi. Members not listed have forces less than 375#
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Lumber
Top chord: 2x4 SP 2400f-2.0E;
Bot chord: 2x4 SP #2;
Lt Stub Wedge: 2x4 SP #2;

Purlins
In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:
Chord Spacing(in oc) Start(ft) End(ft)
BC 34 0.00 2.83
Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Wind
Wind loads based on MWFRS.
Left cantilever is exposed to wind
Wind loading based on both gable and hip roof types.

Snow
Overhang designed for 2.00X TC LL.

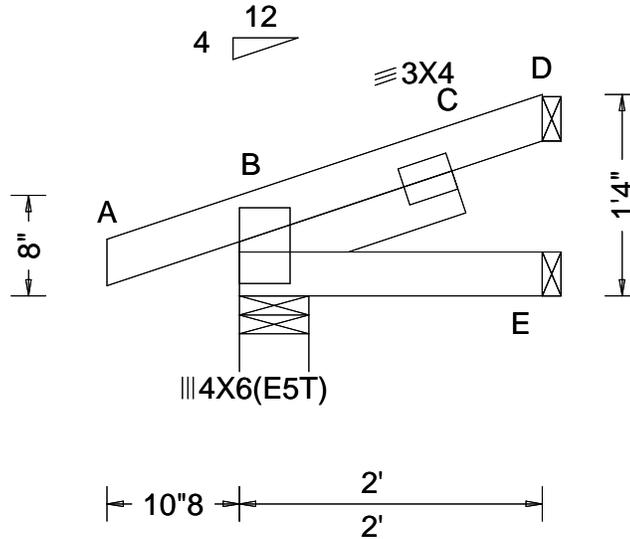
Additional Notes
Top Chord overhang(s) may be field trimmed.



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02/23/2026

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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 25.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.15 Spacing: 24.0 "	Speed: 115 mph Risk Category: II Enclosure: Part. Enc. EXP: B Kzt: NA TCDL: 6.0 psf BCDL: 6.0 psf Mean Height: 19.38 ft MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.55 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf(ASD): NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IRC 2018 Load Std: ASCE 7-16 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): 0.001 C - - HORZ(TL): 0.002 C - - Creep Factor: 2.0 Max TC CSI: 0.100 Max BC CSI: 0.026 Max Web CSI: 0.008 VIEW Ver: 25.02.00B.1125.14	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 170 /- /- /67 /5 /25 D 70 /0 /- /32 /21 /- E 21 /- /- /20 /- /- Wind reactions based on MWFRS B Brg Wid = 5.5 Min Req = 1.5 (Support) D Brg Wid = 1.5 Min Req = - E Brg Wid = 1.5 Min Req = - Bearing B Fcperp = 425psi. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Lt Slider: 2x4 SP #2; block length = 1.50'

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
BC	24	0.00	2.00

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Wind

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

Wind loading based on both gable and hip roof types.

Snow

Overhang designed for 2.00X TC LL.

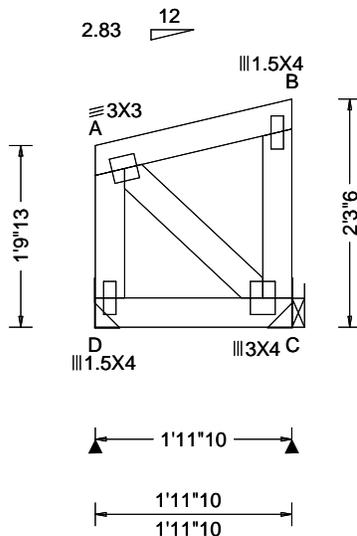
Additional Notes

Top Chord overhang(s) may be field trimmed.



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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 25.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.15 Spacing: 24.0 "	Speed: 115 mph Risk Category: II Enclosure: Part. Enc. EXP: B Kzt: NA TCDL: 6.0 psf BCDL: 6.0 psf Mean Height: 31.06 ft MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.55 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf(ASD): NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IRC 2018 Load Std: ASCE 7-16 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 B 999 240 VERT(CL): 0.000 B 999 180 HORZ(LL): -0.000 A - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.070 Max BC CSI: 0.026 Max Web CSI: 0.028 VIEW Ver: 25.02.00B.1125.14	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL D 89 /- /- /46 /3 /65 C 89 /- /- /75 /52 /- Wind reactions based on MWFRS D Brg Wid = - Min Req = - C Brg Wid = - Min Req = - Members not listed have forces less than 375#

Lumber
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #2;

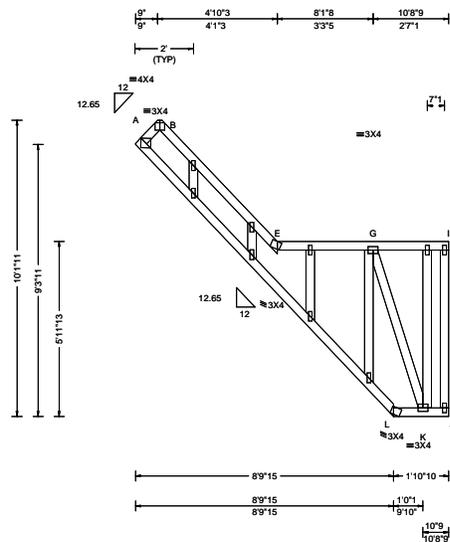
Purlins
In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:
Chord Spacing(in oc) Start(ft) End(ft)
BC 24 0.00 1.97
Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Wind
Wind loads based on MWFRS.
Left end vertical exposed to wind pressure.
Deflection meets L/180.
Right end vertical not exposed to wind pressure.
Wind loading based on both gable and hip roof types.



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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 25.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.15 Spacing: 24.0 "	Speed: 115 mph Risk Category: II Enclosure: Part. Enc. EXP: B Kzt: NA TCDL: 6.0 psf BCDL: 6.0 psf Mean Height: 0.00 ft MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: NA GCpi: 0.55 Wind Duration: 0.00	Pg: NA Ct: NA CAT: NA Pf(ASD): NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IRC 2018 Load Std: ASCE 7-16 TPI Std: 2014 Rep Fac: No FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 - - 240 VERT(CL): 0.050 C 999 180 HORZ(LL): 0.000 - - - HORZ(TL): 0.051 P - - - Creep Factor: 2.0 Max TC CSI: 0.045 Max BC CSI: 0.057 Max Web CSI: 0.020 VIEW Ver: 25.02.00B.1125.14

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #2;

Plating Notes

All plates are 1.5X4 except as noted.

Additional Notes

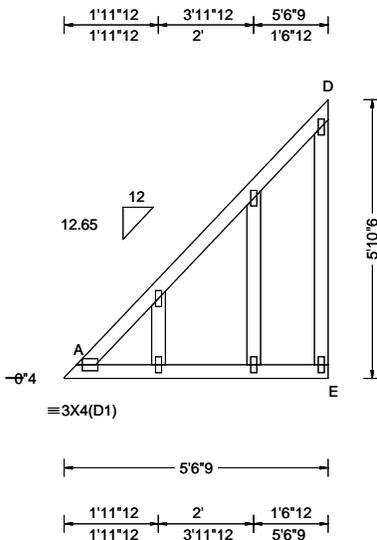
This "Hip Frame" may be used in place of purlins on the hip plane to brace the flat top chord of hip trusses. See detail drawing HIPFRAME0623, HIPFR18000623, or HIPFRSCAB0623 for additional information.



MISSOURI COA #2005000817
02/23/2026

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ALPINE
RELEASE FOR CONSTRUCTION
AS NOTED BY ENGINEERS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
03/03/2026 9:47:51



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 25.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.15 Spacing: 24.0 "	Speed: 115 mph Risk Category: II Enclosure: Part. Enc. EXP: B Kzt: NA TCDL: 6.0 psf BCDL: 6.0 psf Mean Height: 0.00 ft MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: NA GCpi: 0.55 Wind Duration: 0.00	Pg: NA Ct: NA CAT: NA Pf(ASD): NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IRC 2018 Load Std: ASCE 7-16 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 - - 240 VERT(CL): 0.000 A 999 180 HORZ(LL): 0.000 - - - HORZ(TL): 0.000 A - - - Creep Factor: 2.0 Max TC CSI: 0.000 Max BC CSI: 0.000 Max Web CSI: 0.001 VIEW Ver: 25.02.00B.1125.14

Lumber

Top chord: 2x4 SP 2400f-2.0E;
Bot chord: 2x4 SP 2400f-2.0E;
Webs: 2x4 SP #2;

Plating Notes

All plates are 1.5X4 except as noted.

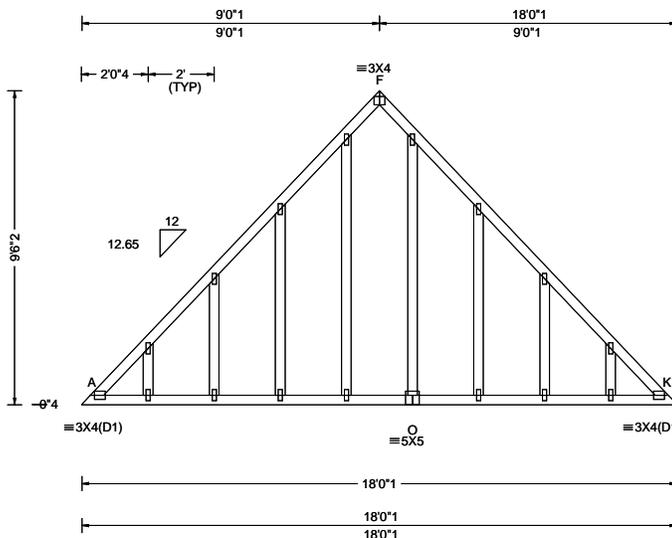
Additional Notes

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Loading Criteria (psf) TCLL: 25.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Criteria Speed: 115 mph Risk Category: II Enclosure: Part. Enc. EXP: B Kzt: NA TCDL: 6.0 psf BCDL: 6.0 psf Mean Height: 0.00 ft MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: NA GCpi: 0.55 Wind Duration: 0.00	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf(ASD): NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IRC 2018 Load Std: ASCE 7-16 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.000 - - 240 VERT(CL): 0.000 F 999 180 HORZ(LL): 0.000 - - - HORZ(TL): 0.000 B - - - Creep Factor: 2.0 Max TC CSI: 0.001 Max BC CSI: 0.001 Max Web CSI: 0.002 VIEW Ver: 25.02.00B.1125.14
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Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #2;

Plating Notes

All plates are 1.5X4 except as noted.

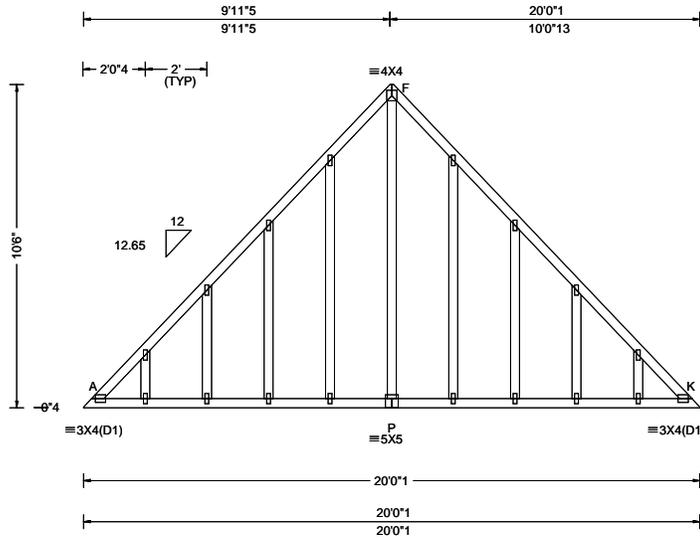
Additional Notes

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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 25.00 TCCL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.15 Spacing: 24.0 "	Speed: 115 mph Risk Category: II Enclosure: Part. Enc. EXP: B Kzt: NA TCCL: 6.0 psf BCDL: 6.0 psf Mean Height: 0.00 ft MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: NA GCpi: 0.55 Wind Duration: 0.00	Pg: NA Ct: NA CAT: NA Pf(ASD): NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IRC 2018 Load Std: ASCE 7-16 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 - - 240 VERT(CL): 0.000 E 999 189 HORZ(LL): 0.000 - - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.001 Max BC CSI: 0.001 Max Web CSI: 0.003 VIEW Ver: 25.02.00B.1125.14

Lumber

Top chord: 2x4 SP #2;
 Bot chord: 2x4 SP #2;
 Webs: 2x4 SP #2;

Plating Notes

All plates are 1.5X4 except as noted.

Additional Notes

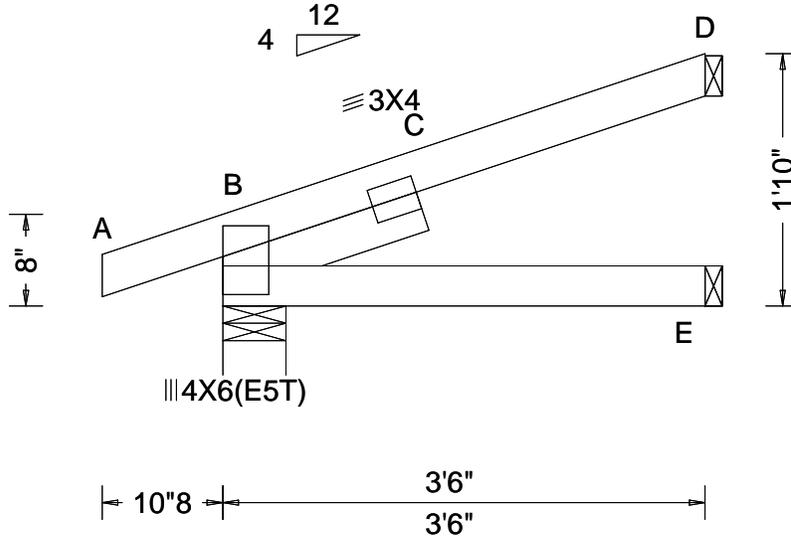
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Loading Criteria (psf) TCCL: 25.00 TCCL: 10.00 BCCL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCCL: 0.00 Soffit: 0.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Criteria Speed: 115 mph Risk Category: II Enclosure: Part. Enc. EXP: B Kzt: NA TCCL: 6.0 psf BCDL: 6.0 psf Mean Height: 15.00 ft MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.55 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf(ASD): NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IRC 2018 Load Std: ASCE 7-16 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): 0.009 C - - HORZ(TL): 0.014 C - - Creep Factor: 2.0 Max TC CSI: 0.259 Max BC CSI: 0.117 Max Web CSI: 0.056 VIEW Ver: 25.02.00B.1125.14	▲ Maximum Reactions (lbs) <table border="1"> <thead> <tr> <th rowspan="2">Loc</th> <th colspan="3">Gravity</th> <th colspan="3">Non-Gravity</th> </tr> <tr> <th>R+</th> <th>/R-</th> <th>/Rh</th> <th>/Rw</th> <th>/U</th> <th>/RL</th> </tr> </thead> <tbody> <tr> <td>B</td> <td>229</td> <td>-</td> <td>-</td> <td>/101</td> <td>-</td> <td>/34</td> </tr> <tr> <td>D</td> <td>118</td> <td>-</td> <td>-</td> <td>/55</td> <td>/26</td> <td>-</td> </tr> <tr> <td>E</td> <td>41</td> <td>-</td> <td>-</td> <td>/36</td> <td>-</td> <td>-</td> </tr> </tbody> </table> Wind reactions based on MWFRS B Brg Wid = 5.5 Min Req = 1.5 (Support) D Brg Wid = 1.5 Min Req = - E Brg Wid = 1.5 Min Req = - Bearing B Fcperp = 425psi. Members not listed have forces less than 375#	Loc	Gravity			Non-Gravity			R+	/R-	/Rh	/Rw	/U	/RL	B	229	-	-	/101	-	/34	D	118	-	-	/55	/26	-	E	41	-	-	/36	-	-
				Loc		Gravity			Non-Gravity																													
R+	/R-	/Rh	/Rw		/U	/RL																																
B	229	-	-	/101	-	/34																																
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E	41	-	-	/36	-	-																																
Lumber Top chord: 2x4 SP #2; Bot chord: 2x4 SP #2; Lt Slider: 2x4 SP #2; block length = 1.500'																																						

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
BC	42	0.00	3.50

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Wind

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

Wind loading based on both gable and hip roof types.

Snow

Overhang designed for 2.00X TC LL.

Additional Notes

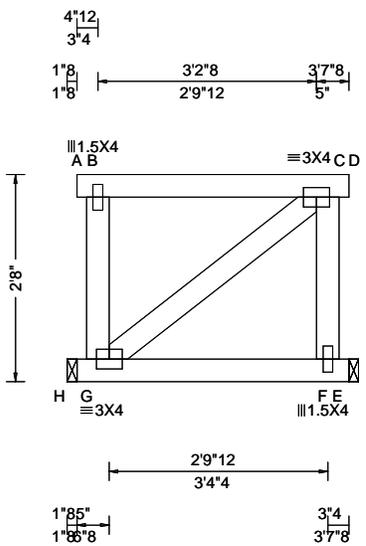
Top Chord overhang(s) may be field trimmed.



MISSOURI COA #2005000817
02/23/2026

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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)																													
TCCL: 25.00 TCCL: 10.00 BCCL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCCL: 0.00 Soffit: 0.00 Load Duration: 1.15 Spacing: 24.0 "	Speed: 115 mph Risk Category: II Enclosure: Part. Enc. EXP: B Kzt: NA TCCL: 6.0 psf BCDL: 6.0 psf Mean Height: 15.00 ft MWFRS Parallel Dist: h/2 to h C&C Dist a: NA Loc. from endwall: Any GCpi: 0.55 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf(ASD): NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IRC 2018 Load Std: ASCE 7-16 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.001 B 999 240 VERT(CL): 0.003 B 999 180 HORZ(LL): 0.000 A - - HORZ(TL): 0.001 A - - Creep Factor: 2.0 Max TC CSI: 0.198 Max BC CSI: 0.098 Max Web CSI: 0.058 VIEW Ver: 25.02.00B.1125.14	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2"></th> <th colspan="3">Gravity</th> <th colspan="3">Non-Gravity</th> </tr> <tr> <th>Loc</th> <th>R+</th> <th>/ R-</th> <th>/ Rh</th> <th>/ Rw</th> <th>/ U</th> <th>/ RL</th> </tr> </thead> <tbody> <tr> <td>H</td> <td>157</td> <td>/-</td> <td>/-</td> <td>/84</td> <td>/5</td> <td>/51</td> </tr> <tr> <td>E</td> <td>157</td> <td>/-</td> <td>/-</td> <td>/101</td> <td>/20</td> <td>/-</td> </tr> </tbody> </table> Wind reactions based on MWFRS H Brg Wid = 1.5 Min Req = - E Brg Wid = 1.5 Min Req = - Members not listed have forces less than 375#			Gravity			Non-Gravity			Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL	H	157	/-	/-	/84	/5	/51	E	157	/-	/-	/101	/20	/-
		Gravity			Non-Gravity																												
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL																											
H	157	/-	/-	/84	/5	/51																											
E	157	/-	/-	/101	/20	/-																											

Lumber
 Top chord: 2x4 SP #2;
 Bot chord: 2x4 SP #2;
 Webs: 2x4 SP #2;

Purlins
 In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
BC	42	0.00	3.50

 Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

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

Snow
 Snow loading based on an unobstructed roof.
 Complete drainage required.

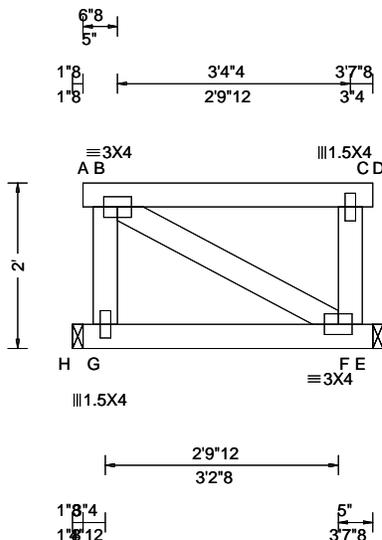
Additional Notes
 Truss must be installed as shown with top chord up.



MISSOURI COA #2005000817
 02/23/2026

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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)																																
TCCL: 25.00 TCCL: 10.00 BCCL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCCL: 0.00 Soffit: 0.00 Load Duration: 1.15 Spacing: 24.0 "	Speed: 115 mph Risk Category: II Enclosure: Part. Enc. EXP: B Kzt: NA TCCL: 6.0 psf BCDL: 6.0 psf Mean Height: 15.00 ft MWFRS Parallel Dist: 0 to h/2 C&C Dist a: NA Loc. from endwall: Any GCpi: 0.55 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf(ASD): NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IRC 2018 Load Std: ASCE 7-16 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.001 C 999 240 VERT(CL): 0.002 C 999 180 HORZ(LL): -0.000 C - - HORZ(TL): 0.000 C - - Creep Factor: 2.0 Max TC CSI: 0.199 Max BC CSI: 0.099 Max Web CSI: 0.040 VIEW Ver: 25.02.00B.1125.14	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2"></th> <th colspan="3">Gravity</th> <th colspan="3">Non-Gravity</th> </tr> <tr> <th>Loc</th> <th>R+</th> <th>/ R-</th> <th>/ Rh</th> <th>/ Rw</th> <th>/ U</th> <th>/ RL</th> <th></th> </tr> </thead> <tbody> <tr> <td>H</td> <td>157</td> <td>/-</td> <td>/-</td> <td>/84</td> <td>/5</td> <td>/35</td> <td></td> </tr> <tr> <td>E</td> <td>157</td> <td>/-</td> <td>/-</td> <td>/92</td> <td>/12</td> <td>/-</td> <td></td> </tr> </tbody> </table> <p>Wind reactions based on MWFRS H Brg Wid = 1.5 Min Req = - E Brg Wid = 1.5 Min Req = - Members not listed have forces less than 375#</p>			Gravity			Non-Gravity			Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL		H	157	/-	/-	/84	/5	/35		E	157	/-	/-	/92	/12	/-	
		Gravity			Non-Gravity																															
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL																														
H	157	/-	/-	/84	/5	/35																														
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Lumber
 Top chord: 2x4 SP #2;
 Bot chord: 2x4 SP #2;
 Webs: 2x4 SP #2;

Purlins
 In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
BC	42	0.00	3.50

 Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

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

Snow
 Snow loading based on an unobstructed roof.
 Complete drainage required.

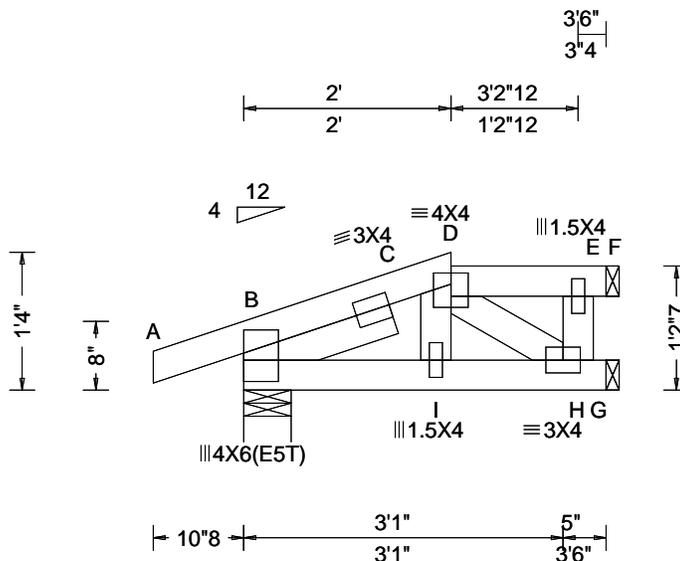
Additional Notes
 Truss must be installed as shown with top chord up.



MISSOURI COA #2005000817
 02/23/2026

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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 25.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.15 Spacing: 24.0 "	Speed: 115 mph Risk Category: II Enclosure: Part. Enc. EXP: B Kzt: NA TCDL: 6.0 psf BCDL: 6.0 psf Mean Height: 19.38 ft MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.55 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf(ASD): NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IRC 2018 Load Std: ASCE 7-16 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.003 C 999 240 VERT(CL): 0.004 C 999 180 HORZ(LL): 0.001 C - - HORZ(TL): 0.001 C - - Creep Factor: 2.0 Max TC CSI: 0.100 Max BC CSI: 0.063 Max Web CSI: 0.022 VIEW Ver: 25.02.00B.1125.14	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 229 /- /- /- /27 /- G 89 /- /- /- /8 /- F 70 /- /- /- /0 /- Wind reactions based on MWFRS B Brg Wid = 5.5 Min Req = 1.5 (Support) G Brg Wid = 1.5 Min Req = - F Brg Wid = 1.5 Min Req = - Bearing B Fcperp = 425psi. Members not listed have forces less than 375#

Lumber
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #2;
Lt Slider: 2x4 SP #2; block length = 1.500'

Purlins
In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:
Chord Spacing(in oc) Start(ft) End(ft)
TC 24 2.00 3.50
BC 42 0.00 3.50
Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Wind
Wind loads and reactions based on MWFRS.
Wind loading based on both gable and hip roof types.

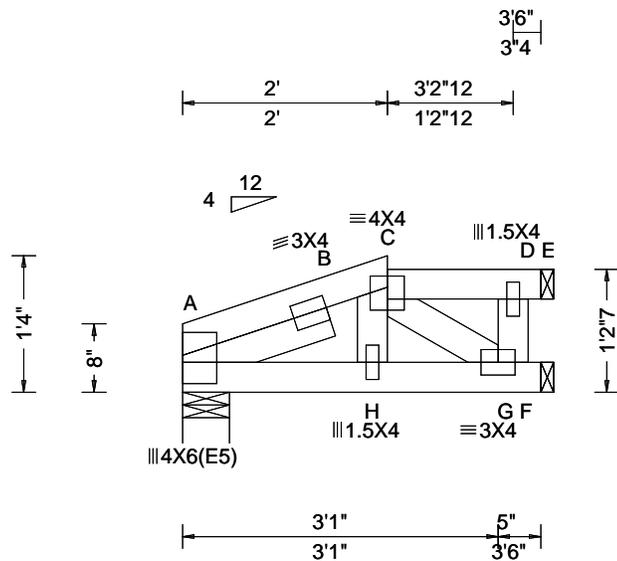
Snow
Overhang designed for 2.00X TC LL.

Additional Notes
Top Chord overhang(s) may be field trimmed.



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Loading Criteria (psf) TCLL: 25.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Criteria Speed: 115 mph Risk Category: II Enclosure: Part. Enc. EXP: B Kzt: NA TCDL: 6.0 psf BCDL: 6.0 psf Mean Height: 19.52 ft MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.55 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf(ASD): NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IRC 2018 Load Std: ASCE 7-16 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.003 B 999 240 VERT(CL): 0.004 B 999 180 HORZ(LL): 0.001 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.066 Max BC CSI: 0.063 Max Web CSI: 0.022 VIEW Ver: 25.02.00B.1125.14	▲ Maximum Reactions (lbs) Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL A 159 /- /- /- /10 /- F 89 /- /- /- /9 /- E 70 /- /- /- /1 /- Wind reactions based on MWFRS A Brg Wid = 5.5 Min Req = 1.5 (Support) F Brg Wid = 1.5 Min Req = - E Brg Wid = 1.5 Min Req = - Bearing A Fcperp = 425psi. Members not listed have forces less than 375#
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Lumber
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #2;
Lt Slider: 2x4 SP #2; block length = 1.500'

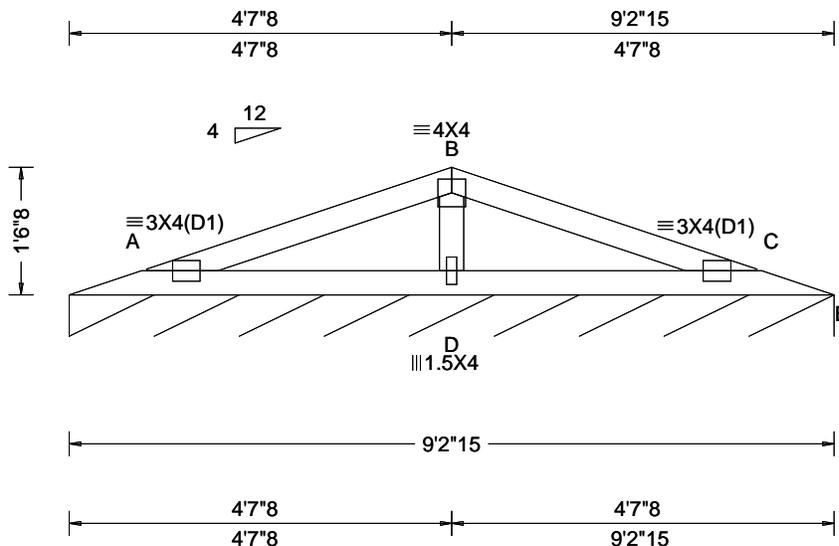
Purlins
In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:
Chord Spacing(in oc) Start(ft) End(ft)
TC 24 2.00 3.50
BC 42 0.00 3.50
Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Wind
Wind loads and reactions based on MWFRS.
Wind loading based on both gable and hip roof types.



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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF																				
TCLL: 25.00 TC DL: 10.00 BC LL: 0.00 BC DL: 10.00 Des Ld: 45.00 NC BC LL: 0.00 Soffit: 0.00 Load Duration: 1.15 Spacing: 24.0 "	Speed: 115 mph Risk Category: II Enclosure: Part. Enc. EXP: B Kzt: NA TC DL: 6.0 psf BC DL: 6.0 psf Mean Height: 30.31 ft MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.55 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf(ASD): NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IRC 2018 Load Std: ASCE 7-16 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.018 C 999 240 VERT(CL): 0.032 C 999 180 HORZ(LL): -0.005 C - - HORZ(TL): 0.009 C - - Creep Factor: 2.0 Max TC CSI: 0.276 Max BC CSI: 0.975 Max Web CSI: 0.049 VIEW Ver: 25.02.00B.1125.14	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Gravity</th> <th colspan="4">Non-Gravity</th> </tr> <tr> <th>Loc</th> <th>R+</th> <th>/R-</th> <th>/Rh</th> <th>/Rw</th> <th>/U</th> <th>/RL</th> </tr> </thead> <tbody> <tr> <td>E*</td> <td>91</td> <td>/-</td> <td>/-</td> <td>/44</td> <td>/9</td> <td>/1</td> </tr> </tbody> </table> <p>Wind reactions based on MWFRS E Brg Wid = 110 Min Req = - Bearing A Fcperp = 425psi. Members not listed have forces less than 375# Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. B - D 208 -413</p>	Gravity		Non-Gravity				Loc	R+	/R-	/Rh	/Rw	/U	/RL	E*	91	/-	/-	/44	/9	/1
Gravity		Non-Gravity																						
Loc	R+	/R-	/Rh	/Rw	/U	/RL																		
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Lumber

Top chord: 2x4 SP #2;
 Bot chord: 2x4 SP #2;
 Webs: 2x4 SP #2;

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
BC	111	0.00	9.25

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Wind

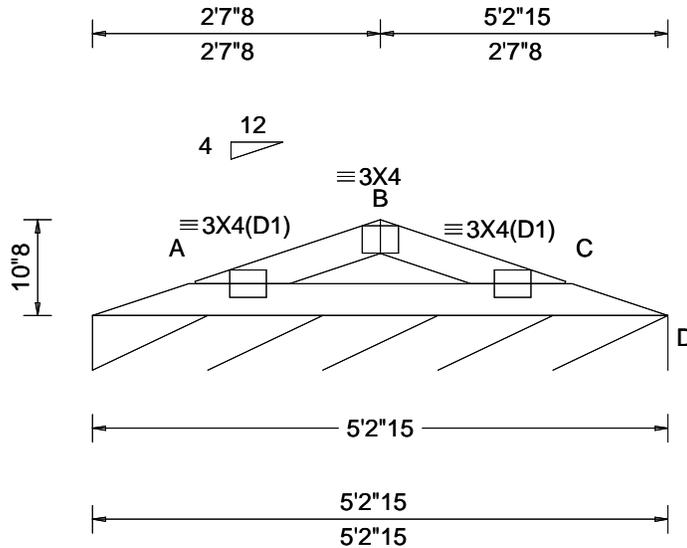
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 Wind loading based on both gable and hip roof types.



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ALPINE

RELEASE FOR CONSTRUCTION
 AS NOTED BY PLANS REVIEW
 DEVELOPMENT SERVICES
 LEE'S SUMMIT, MISSOURI
 03/03/2026 9:47:52



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 25.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 45.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.15 Spacing: 24.0 "	Speed: 115 mph Risk Category: II Enclosure: Part. Enc. EXP: B Kzt: NA TCDL: 6.0 psf BCDL: 6.0 psf Mean Height: 30.65 ft MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.55 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf(ASD): NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IRC 2018 Load Std: ASCE 7-16 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.015 C 999 240 VERT(CL): 0.028 C 999 180 HORZ(LL): -0.005 A - - HORZ(TL): 0.008 A - - Creep Factor: 2.0 Max TC CSI: 0.160 Max BC CSI: 0.227 Max Web CSI: 0.000 VIEW Ver: 25.02.00B.1125.14	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL D* 91 /- /- /39 /4 /1 Wind reactions based on MWFRS D Brg Wid = 63.0 Min Req = - Bearing A Fcperp = 425psi. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 218 -439 B - C 216 -439 Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. A - C 442 -193

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
BC	63	0.00	5.25

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Wind

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

Wind loading based on both gable and hip roof types.



MISSOURI COA #2005000817
02/23/2026

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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 trusses. A 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 these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org



CLR Reinforcing Member Substitution

This detail is to be used for ANSI/TPI 1-2014 standards and older when a Continuous Lateral Restraint (CLR) is specified on a truss design and 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 L-reinforcement 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.

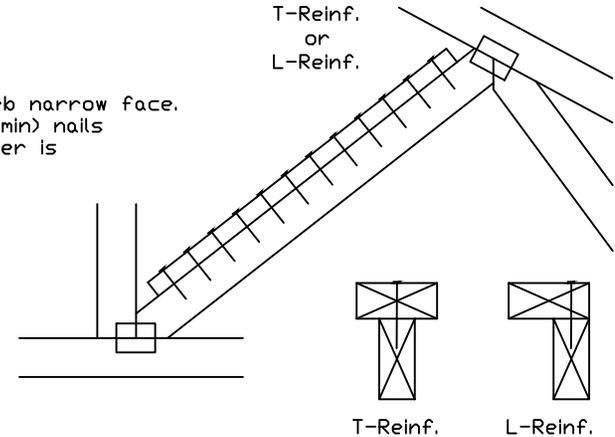
Web Member Size	Specified CLR Restraint	Alternative Reinforcement T- or L- Reinf.	Scab Reinf.
2x3 or 2x4	1 row	2x4	1-2x4
2x3 or 2x4	2 rows	2x6	2-2x4
2x6	1 row	2x4	1-2x6
2x6	2 rows	2x6	2-2x4(*)
2x8	1 row	2x6	1-2x8
2x8	2 rows	2x6	2-2x6(*)

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.

(*) Center scab on wide face of web. Apply (1) scab to each face of web.

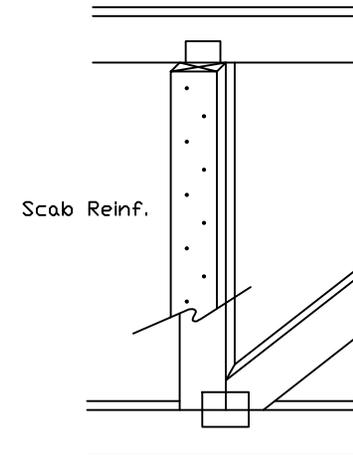
T-Reinforcement or L-Reinforcement:

Apply to either side of web narrow face. Attach with 10d (0.131"x3.0",min) nails at 6" o.c. Reinforcing member is a minimum 80% of web member length.



Scab Reinforcement:

Apply scab(s) to wide face of web. No more than (1) scab per face. Attach with 10d (0.131"x3.0",min) nails at 6" o.c. Reinforcing member is a minimum 80% of web member length.



Rev: 01/23/26



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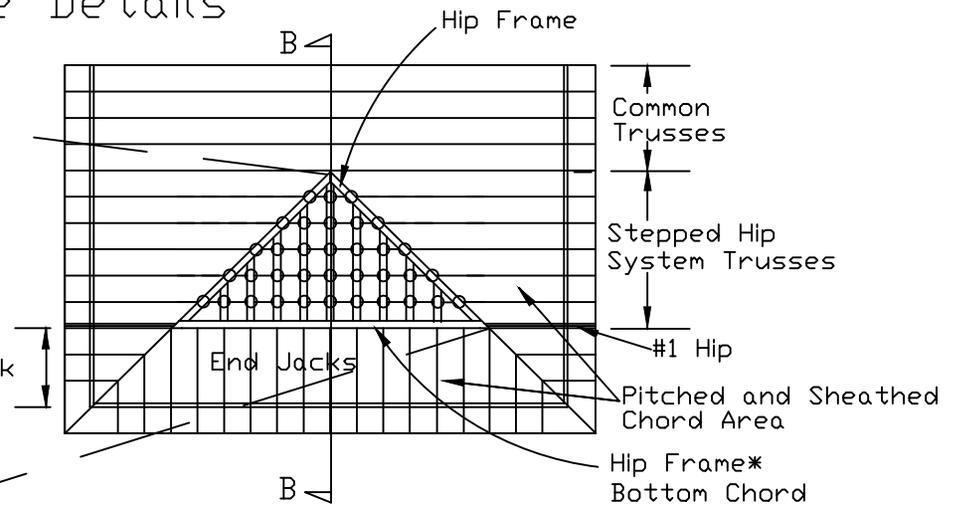
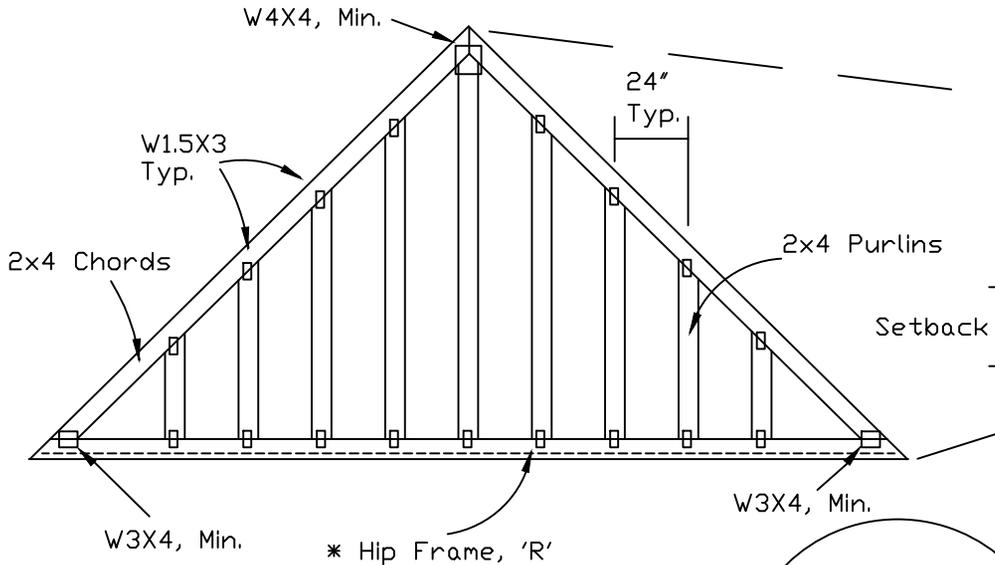
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TC LL	PSF	REF CLR Subst.
TC DL	PSF	DATE 01/02/19
BC DL	PSF	DRWG BRCLBSUB0119
BC LL	PSF	
TOT. LD.	PSF	
02 DB/R025 AC.		
SPACING		

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* Hip Frame Details



o- Attach hip frame to flat chords of stepped hips at all overlapping points with 2-10d (0.148"x3") common nails. Bottom chord of hip frame to be attached to #1 hip with 10d common (0.148"x3") nails @ 6" o.c. maximum spacing.

Hip frame stops at plumb cut of jacks to maintain pitch continuity.

* Hip frame lumber is SPF, So. Pine, HF, or DFL Standard, Stud grade, or better.

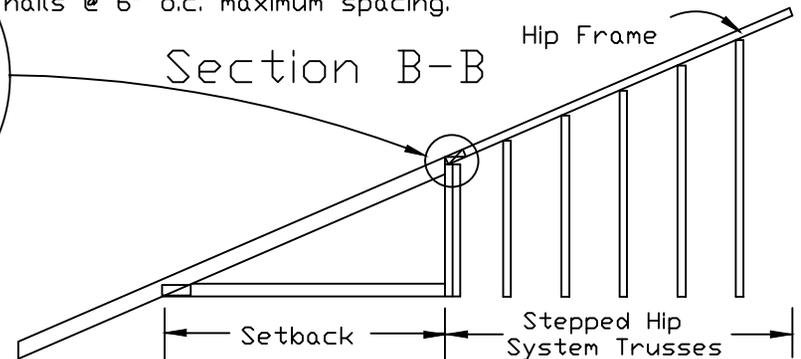
See Engineer's sealed design for setback, lumber, plating, loading, and duration factor required.

'R' Hip frame chords may be trimmed up to 2" to fit. purlins must be intact and properly attached.

Use this detail for:

- ASCE 7-22, 140 mph, 30' M.H., Enclosed, Exp C, or
- ASCE 7-22, 120 mph, 30' M.H., Enclosed, Exp D, or
- ASCE 7-10 & ASCE 7-16, 140 mph, 30' M.H., Enclosed, Exp C, or
- ASCE 7-10 & ASCE 7-16, 120 mph, 30' M.H., Enclosed, Exp D, or
- ASCE 7-05, 110 mph, 30' M.H., Enclosed, Cat II, Exp C, Residential, Wind TC DL=4.2 psf, Kzt=1.00

Section B-B



Hip Frame - provided by truss manufacturer. Hip frame is designed to provide bracing for flat top chords of hip frame system where indicated. Structural panels must be properly attached directly to hip frame purlins.

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ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org

BRADLEY
E. MORRIS
NUMBER
PE-2002019611

MISSOURI COA #2005000817

02/23/2026

REF HIP FRAME
DATE 06/23/2023
DRWG HIPFRAME0623

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Valley Detail - ASCE 7-16: 180 mph, 30' Mean Height, Partially Enclosed, Exp. C, Kzt=1.00

Top Chord 2x4 SP #2N, SPF #1/#2, DF-L #2 or better.
 Bot Chord 2x4 SP #2N or SPF #1/#2 or better.
 Webs 2x4 SP #3, SPF #1/#2, DF-L #2 or better.

** Attach each valley to every supporting truss with:
 535# connection or with (1) Simpson H2.5A or equivalent connector for
 ASCE 7-16 180 mph. 30' Mean Height, Part. Enc. Building, Exp. C, Wind TC DL=5 psf, Kzt = 1.00
 Or
 ASCE 7-16 160 mph. 30' Mean Height, Part. Enc. Building, Exp. D, Wind TC DL=5 psf, Kzt = 1.00

Bottom chord may be square or pitched cut as shown.

Valleys short enough to be cut as solid triangular members from a single 2x6, or larger as required, shall be permitted in lieu of fabricating from separate 2x4 members.

All plates shown are Alpine Wave Plates.

Unless specified otherwise on engineer's sealed design, for vertical valley webs taller than 7-9" apply 2x4 "T" reinforcement, 80% length of web, same species and grade or better, attached with 10d box (0.128" x 3.0") nails at 6" o.c. In lieu of "T" reinforcement, 2x4 Continuous Lateral Restraint applied at mid-length of web is permitted with diagonal bracing as shown in DRWG BRCLBANC1014.

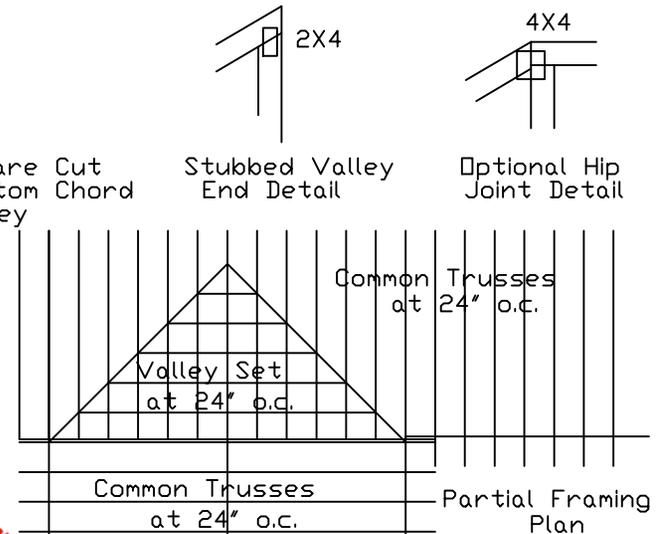
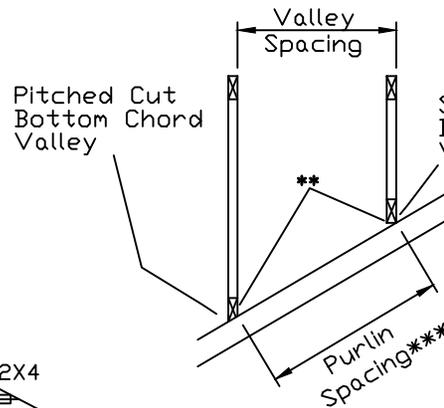
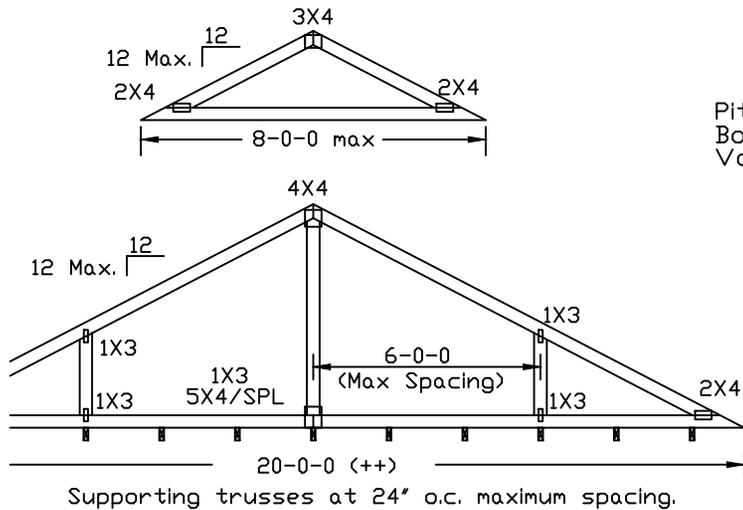
Top chord of truss beneath valley set must be braced with: properly attached, rated sheathing applied prior to valley truss installation.

Or
 Purlins at 24" o.c. or as otherwise specified on engineer's sealed design

Or
 By valley trusses used in lieu of purlin spacing as specified on Engineer's sealed design.

*** Note that the purlin spacing for bracing the top chord of the truss beneath the valley is measured along the slope of the top chord.

++ Larger spans may be built as long as the vertical height does not exceed 14'-0".



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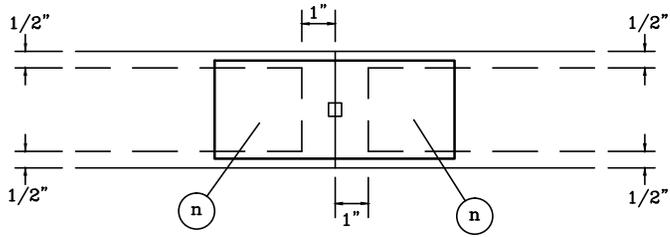


TC LL	30	30	40PSF	REF	VALLEY DETAIL
TC DL	20	15	7PSF	DATE	01/26/2018
BC DL	10	10	10 PSF	DRWG	VAL180160118
BC LL	0	0	0PSF		
TOT. LD.	60	55	57PSF		
SPACING			24.0"		

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TRULOX INFORMATION DETAIL

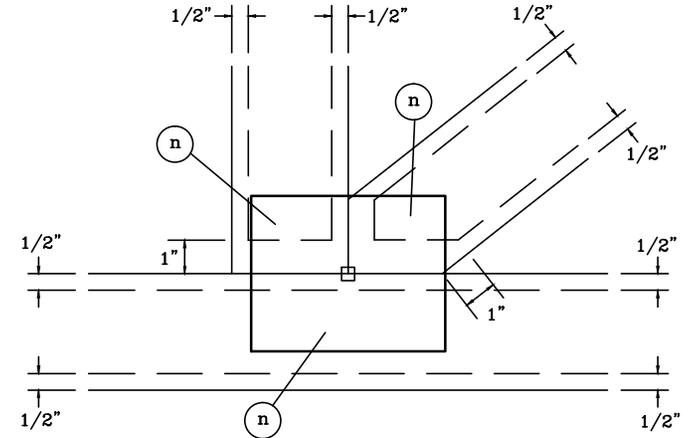
TYPICAL OFF PANEL SPLICE



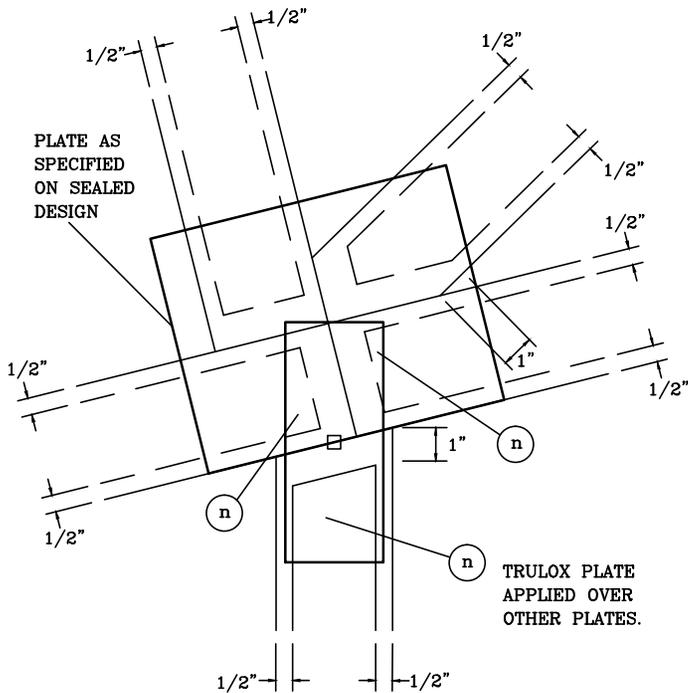
DO NOT APPLY NAILS WITHIN 1/2" OF LUMBER EDGES OR 1" OF LUMBER ENDS ON EACH FACE, AS SHOWN BY DASHED LINES.

NAILS MUST NOT SPLIT LUMBER.

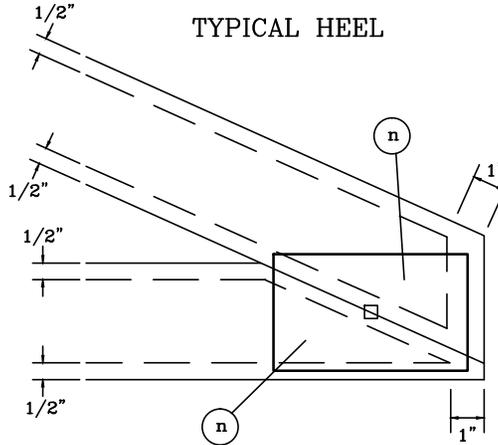
TYPICAL PANEL POINT WITHOUT SPLICE



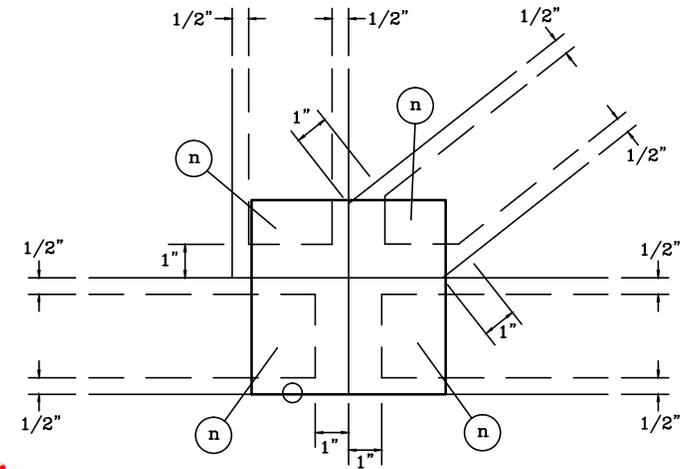
TYPICAL FILLER



TYPICAL HEEL



TYPICAL PANEL POINT SPLICE

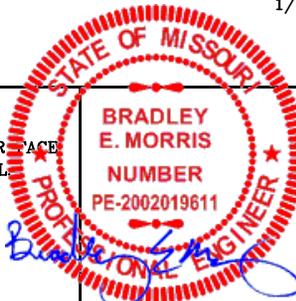


NOTES:

- (n) IS THE REQUIRED NUMBER OF 0.120" X 1.375" NAILS, OR EQUAL, PER FACE PER PLY AS SPECIFIED ON THE SEALED DESIGN REFERENCING THIS DETAIL.
- LOCATES PLATE CORNER OR FLUSH EDGE.
- LOCATES PLATE CENTER.



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MISSOURI COA #2005000817

02/23/2026

TRULOX PLATING

160

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