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Alpine, an ITW Company 6750 Forum Drive, Suite 305 Orlando, FL 32821 Phone: (800)755-6001 www.alpineitw.com



Site Information:	Page 1:
Customer: W. B. Howland Company, Inc.	Job Number: 22-7038
Job Description: Culverhouse	
Address:	

Job Engineering Criteria:			
Design Code: FBC 7th Ed. 2020 Res.	IntelliVIEW Version: 21.02.00 through 21.02.01		
	JRef #: 1Xe92150011		
Wind Standard: ASCE 7-16 Wind Speed (mph): 130	Design Loading (psf): 40.00		
Building Type: Closed			

This package contains general notes pages, 60 truss drawing(s) and 5 detail(s).

Item	Drawing Number	Truss
1	088.22.1537.53060	A01
3	088.22.1536.47973	A03
5	088.22.1535.55230	A05
7	088.22.1535.50697	A07
9	088.22.1535.45787	A09
11	088.22.1535.35083	A11
13	088.22.1535.20370	A13
15	088.22.1535.09180	A15
17	088.22.1535.05163	A17
19	088.22.1535.01063	A19
21	088.22.1534.22757	A21
23	088.22.1534.18210	B02
25	088.22.1533.28137	B04
27	088.22.1533.25147	B07
29	088.22.1533.21137	B09
31	088.22.1533.18093	B11
33	088.22.1533.14977	B13
35	088.22.1533.11893	B15
37	088.22.1533.08203	B17
39	088.22.1533.02633	B19
41	088.22.1532.58570	B21
43	088.22.1532.54150	B23
45	088.22.1532.49513	B25
47	088.22.1532.44230	B27
49	088.22.1531.56127	J01
51	088.22.1531.51120	J02

Item	Drawing Number	Truss
2	088.22.1536.53787	A02
4	088.22.1536.22980	A04
6	088.22.1535.53140	A06
8	088.22.1535.48460	A08
10	088.22.1535.43690	A10
12	088.22.1535.32070	A12
14	088.22.1535.11503	A14
16	088.22.1535.07093	A16
18	088.22.1535.03357	A18
20	088.22.1534.58987	A20
22	088.22.1534.20163	B01
24	088.22.1533.29613	B03
26	088.22.1533.26753	B06
28	088.22.1533.23257	B08
30	088.22.1533.19587	B10
32	088.22.1533.16597	B12
34	088.22.1533.13460	B14
36	088.22.1533.10060	B16
38	088.22.1533.04487	B18
40	088.22.1533.00430	B20
42	088.22.1532.56373	B22
44	088.22.1532.51760	B24
46	088.22.1532.46860	B26
48	088.22.1531.58503	B28
50	088.22.1531.54420	J01HJ
52	088.22.1531.49497	J03

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Site Information:	Page 2:	
Customer: W. B. Howland Company, Inc.	Job Number: 22-7038	
Job Description: Culverhouse		
Address:		

Item	Drawing Number	Truss
53	088.22.1531.47623	J04
55	088.22.1531.43130	J07
57	088.22.1531.39573	PB01
59	088.22.1531.36700	PB03
61	A14030ENC160118	
63	PB160160118	
65	BRCLBSUB0119	

Item	Drawing Number	Truss
54	088.22.1531.44817	J06
56	088.22.1531.41430	J08
58	088.22.1531.38173	PB02
60	088.22.1531.35123	PB04
62	GBLLETIN0118	
64	A14015ENC160118	

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.

Fire Retardant Treated Lumber:

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

General Notes (continued)

Key to Terms:

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

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

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

CL = Certified lumber.

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

FRT = Fire Retardant Treated lumber.

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

FRT-DC = Dricon Fire Retardant Treated lumber.

FRT-FP = FirePRO Fire Retardant Treated lumber.

FRT-FL = FlamePRO Fire Retardant Treated lumber.

FRT-FT = FlameTech Fire Retardant Treated lumber.

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

g = green lumber.

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

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

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

Ic = Incised lumber.

FJ = Finger Jointed lumber.

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

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

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

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

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

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

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

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

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

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

PP = Panel Point.

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

-R = 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).

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.

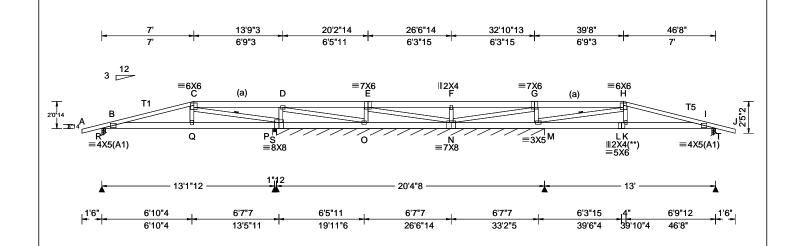
Refer to ASCE-7 for Wind and Seismic abbreviations.

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.: 514 Earth City Expressway, Suite 242, Earth City, MO 63045; 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.

SEQN: 85020 HIPS Ply: 1 Job Number: 22-7038 Cust: R 215 JRef: 1Xe92150011 FROM: DrwNo: 088.22.1537.53060 Qty: 1 Culverhouse Truss Label: A01 KD / WHK 03/29/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	DefI/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.079 Q 999 240
DCLL. 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.158 Q 989 180
DCDL. 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.015 I
Dec I d: 40 00	EXP: B Kzt: NA		HORZ(TL): 0.030 I
NCBCLL: 10.00	Mean Height: 0.00 ft TCDL: 4.2 psf	Building Code:	Creep Factor: 2.0
Soffit: 2.00	BCDL: 4.2 psi	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.633
	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI: 0.351
	C&C Dist a: 3.00 ft	Rep Fac: Varies by Ld Case	Max Web CSI: 0.758
-	Loc. from endwall: not in 6.50 ft	FT/RT:20(0)/10(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.01.1216.15

Lumber

Top chord: 2x6 SP 2400f-2.0E; T1,T5 2x4 SP #2; Bot chord: 2x6 SP 2400f-2.0E; Webs: 2x4 SP #3;

Bracing

(a) Continuous lateral restraint equally spaced on

Special Loads

(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)					
TC: From	61 plf at	-1.50 to	61 plf at	7.00	
TC: From	30 plf at	7.00 to	30 plf at	39.67	
TC: From	61 plf at	39.67 to	61 plf at	48.17	
BC: From	4 plf at	-1.50 to	4 plf at	0.00	
BC: From	20 plf at	0.00 to	20 plf at	7.00	
BC: From	10 plf at	7.00 to	10 plf at	39.52	
BC: From	20 plf at	39.52 to	20 plf at	46.67	
BC: From	4 plf at	46.67 to	4 plf at	48.17	
TC: 295 lb	Conc. Load	at 7.00	-		
TC: 179 lb	Conc. Load	at 9.06,11	.06,13.06,1	5.06	
17.06,19.06,2	21.06,23.06,	23.60,25.60	,27.60,29.6	0	
31.60,33.60,3	35.60,37.60				
BC: 314 lb	Conc. Load	lat 7.00			
BC: 125 lb	Conc. Load	lat 9.06,11	.06,13.06,1	5.06	
17.06,19.06,21.06,23.06,23.60,25.60,27.60,29.60					
31.60,33.60,3	35.60,37.60				

Plating Notes

All plates are 3X4 except as noted.

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

Wind

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

Additional Notes

WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.



= maximum reactions (ibs), or = i Ei						
Gravity			Non-Gravity			
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
R	897	/-	/-	/-	/118	/-
s	1061	/-	/-	/-	/31	/-
S*	271	/-	/-	/-	/36	/-
Т	653	/-	/-	/-	/91	/-
Wir	nd read	tions ba	sed on N	/WFRS		
R	Brg V	/id = 3.5	Min F	Req = 1.5	(Truss	s)
s s	Brg V	/id = 3.5	Min F	Req = 1.5	(Truss	s)
S	Brg V	/id = 244	Min F	Req = -	-	
Т		/id = 3.5	Min F	Req = 1.5	(Truss	s)
Bea	irings I	R, S, S, 8	& Tare	a rigid su	rface.	
Mei	mbers	not listed	have fo	orces less	than 3	375#
Ma	kimum	Top Ch	ord Fo	ces Per	Ply (lb:	s)
Cho	ords T	ens.Con	np. (Chords	Tens.	Ćomp.
В-	С	228 - 2°	139 I	- 1 - 1	121	- 1199
C-	D	576	73			

▲ Maximum Reactions (lbs), or *=PLF

Maximum Bot Chord Forces Per Ply (lbs)

Chords	ds Tens.Comp.		Chords	Tens. (Comp.
B - Q	2040	- 210	M - L	1102	- 109
Q - P	3994	- 428	L-K	1102	- 109
P - O	31	- 402	K - I	1125	- 106

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
Q-C	483 0	F-N	206 - 806
C - P	296 - 2641	G - M	224 - 914
P - D	233 - 977	M - H	157 - 1497
O - E	205 - 813		

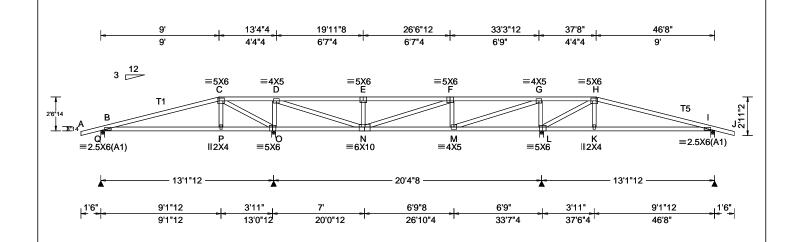
WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!

IMPORTANT FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections 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.



SEQN: 57431 HIPS Ply: 1 Job Number: 22-7038 Cust: R 215 JRef: 1Xe92150011 T10 FROM: DrwNo: 088.22.1536.53787 Qty: 1 Culverhouse Truss Label: A02 KD / WHK 03/29/2022



ſ	Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
1	TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
1		Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.085 I 999 240
1	DCLL. 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.167 B 930 180
1	DCDL. 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.026 I
1	Dec 1 4: 40 00	EXP: B Kzt: NA		HORZ(TL): 0.057 I
1	NCBCLL: 10.00	Mean Height: 15.00 ft TCDL: 4.2 psf	Building Code:	Creep Factor: 2.0
1	Soffit: 2.00	BCDL: 4.2 psi	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.581
1		MWFRS Parallel Dist: h/2 to h	TPI Std: 2014	Max BC CSI: 0.670
1		C&C Dist a: 4.67 ft	Rep Fac: Yes	Max Web CSI: 0.637
1		Loc. from endwall: not in 6.50 ft	FT/RT:20(0)/10(0)	
1		GCpi: 0.18	Plate Type(s):	
1		Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17

ı	L	uI	m	b	eı

Top chord: 2x4 SP #2; T1,T5 2x4 SP M-31;

Bot chord: 2x4 SP #2: Webs: 2x4 SP #3;

Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.

efI/CSI Criteria	▲ Maximum Reactions (lbs)	
P Deflection in loc L/defl L/#	Gravity	N
ERT(LL): 0.085 I 999 240	Loc R+ /R- /Rh /R	W
ERT(CL): 0.167 B 930 180	Q 549 /- /- /24	9
IORZ(LL): -0.026 I	O 1498 /- /- /75	7
IORZ(TL): 0.057 I	L 1506 /- /- /76	0
reep Factor: 2.0	I 548 /- /- /24	9
lax TC CSI: 0.581	Wind reactions based on MWFR	S
lax BC CSI: 0.670	Q Brg Wid = 3.5 Min Req =	1.5
	O Brg Wid = 3.5 Min Req =	1.8
lax Web CSI: 0.637	L Brg Wid = 3.5 Min Req =	1.8
	I Brg Wid = 3.5 Min Req =	1.5
	Bearings Q, O, L, & I are a rigid s	uı
IFW Ver: 21 02 00 1005 17	Mambare not listed have forces le	^-

Bearings Q, O, L, & I are a rigid surface.						
Member	Members not listed have forces less than 375#					
Maximum Top Chord Forces Per Ply (lbs)						
Chords	Tens.C	omp.	Chords	Tens.	Comp.	
B - C	192	- 439	F-G	238	- 925	
C - D	757	- 121	G - H	776	- 122	
D-E	248	- 970	H - I	205	- 433	
F-F	2/18	- 970				

Non-Gravity

/174 /-

/173

/RL

/Rw /U

/249 /63

Min Req = 1.5 (Truss)

Min Req = 1.5 (Truss)

Min Req = 1.8Min Req = 1.8

Maximum Bot Chord Forces Per Ply (lbs)					
Chords	Tens.C	comp.	Chords	Tens. (Comp.
P - O	381	- 155	M - L	158	- 656
O - N	160	- 638	L-K	376	- 167
N - M	977	- 183			

Maximum Web Forces Per Ply (lbs) Tens.Comp. Tens. Comp. Webs Webs C - O 153 - 412 214 - 1023 0 - D M - G 1649 311 - 938 - 325 D-N G-L 1673 - 339 311 -946 E - N 158 - 406 L-H 213 - 1031



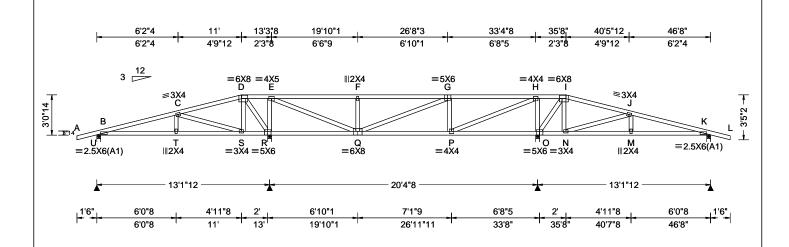
WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!

IMPORTANT FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections 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.



SEQN: 57435 HIPS Ply: 1 Job Number: 22-7038 Cust: R 215 JRef: 1Xe92150011 T12 FROM: DrwNo: 088.22.1536.47973 Qty: 1 Culverhouse Truss Label: A03 KD / WHK 03/29/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	DefI/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.038 F 999 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.082 F 999 180
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.006 K
Des Ld: 40.00	EXP: B Kzt: NA		HORZ(TL): 0.014 K
NCBCLL: 10.00	Mean Height: 15.00 ft TCDL: 4.2 psf	Building Code:	Creep Factor: 2.0
Soffit: 2.00	BCDL: 3.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.589
Load Duration: 1.25	MWFRS Parallel Dist: h/2 to h	TPI Std: 2014	Max BC CSI: 0.153
Spacing: 24.0 "	C&C Dist a: 4.67 ft	Rep Fac: Yes	Max Web CSI: 0.571
	Loc. from endwall: not in 6.50 ft	FT/RT:20(0)/10(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17

Lumber

Top chord: 2x4 SP #2; Bot chord: 2x4 SP M-31; Webs: 2x4 SP #3;

Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.

	▲ M	laximu	ım Re	actions (I	bs)		
L/#		G	ravity		No	on-Grav	∕ity
240	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ F
180	U	477	/-	/-	/215	/52	/2
-	R	1596	/-	/-	/796	/184	/-
-	0	1595	/-	/-	/794	/182	/-
	K	477	/-	/-	/218	/53	/-
	Wir	nd read	tions I	oased on I	MWFRS		
	U	Brg W	lid = 3	3.5 Min f	Req = 1.5	(Trus	3)
	R	Brg V	lid = 3	3.5 Min f	Req = 1.5	(Trus	3)
	0	Brg V	lid = 3	3.5 Min f	Req = 1.5	(Trus	3)
	K	Brg V	lid = 3	3.5 Min f	Req = 1.5	(Trus	3)
	Bea	arings l	J, R, 0	D, & K are	a rigid su	ırface.	
,	Mei	mbers	not lis	ted have fo	orces les	s than 3	375
	Mar	vimum	Ton	Chard Fa	roes Der	Dly (lb	e١

Member	's not listed nav	e forces les	is than 375#	
Maximu	m Top Chord	Forces Per	Ply (lbs)	
Chords	Tens.Comp.	Chords	Tens. Comp.	

B-C	97	- 629	G-H	200	- 606
C - D	577	- 100	H - I	922	- 157
D-E	924	- 163	I - J	576	- 94
E-F	212	- 637	J - K	101	- 626
F-G	212	- 637			

/RL

/24

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.C	comp.	Chords	Tens. (Comp.
B - T	581	- 52	P-0	235	- 824
T - S	571	- 54	O - N	174	- 533
S - R	179	- 533	N - M	568	- 59
R-Q	242	- 826	M - K	578	- 57
Q - P	646	- 148			

Maximum Web Forces Per Ply (lbs)

p.
47
98
38
66
23



03/29/2022

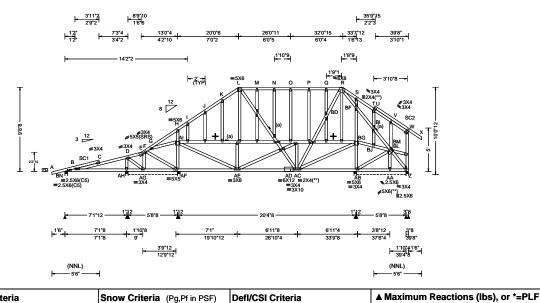
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SEQN: 84885 GABL Ply: 1 Job Number: 22-7038 Cust: R 215 JRef: 1Xe92150011 T132 FROM: DrwNo: 088.22.1536.22980 Qty: 1 Culverhouse Truss Label: A04 KD / WHK 03/29/2022



Loading Criteria (psf	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.067 C 999 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.136 C 602 180
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.034 J
Des Ld: 40.00	EXP: B Kzt: NA		HORZ(TL): 0.075 J
NCBCLL: 10.00	Mean Height: 15.00 ft TCDL: 4.2 psf	Building Code:	Creep Factor: 2.0
Soffit: 2.00	BCDL: 3.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.545
Load Duration: 1.25	MWFRS Parallel Dist: h/2 to h	TPI Std: 2014	Max BC CSI: 0.389
Spacing: 24.0 "	C&C Dist a: 3.97 ft	Rep Fac: Yes	Max Web CSI: 0.681
-	Loc. from endwall: not in 9.00 ft	FT/RT:20(0)/10(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.01.1216.15

Lumber

Top chord: 2x4 SP #2; Bot chord: 2x4 SP #2; Webs: 2x4 SP #3; Stack Chord: SC1 2x4 SP #2; Stack Chord: SC2 2x4 SP #2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

All plates are 2X4 except as noted.

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

Gable end supports 8" max rake overhang. Top chord must not be cut or notched.

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.

+ Member to be laterally braced for horizontal wind loads. bracing system to be desiged and furnished by others.

Additional Notes

See DWGS A14015ENC160118 & GBLLETIN0118 for gable wind bracing and other requirements.

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



G	Gravity		Non-Gravity					
Loc R+	/ R-	/ Rh	/ Rw	/ U	/ RL			
BN 312	/-	/-	/145	/50	/201			
AH 837	/-	/-	/441	/78	/-			
AH*144	/-	/-	/65	/28	/-			
AF 370	/-	/-	/193	/-	/-			
AB 365	/-	/-	/187	/-	/-			
AB*167	/-	/-	/78	/26	/-			
Z 300	/-	/-	/187	/47	/-			
AG	/-107							
Wind read	Wind reactions based on MWFRS							

& Z are a rigid surface.

BN Brg Wid = 3.5 Min Req = 1.5 (Truss) AH Brg Wid = 3.5 Min Req = 1.5 (Truss)

AH Brg Wid = 68.5 Min Reg = -AF Brg Wid = 3.5 Min Req = 1.5 (Truss)

AB Brg Wid = 3.5 Min Reg = 1.5 (Truss)

AB Brg Wid = 68.5 Min Req =

Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings BN, AH, AH, AF, AB, AB,

Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.Comp.		Chords	Tens. Comp.	
B-C	493	- 197	L - M	221	- 532
G-H	59	- 544	M - N	221	- 532
H - I	140	- 687	N - O	222	- 534
I-J	145	- 621	O - P	222	- 534
J - K	168	- 590	P-Q	222	- 534
K-L	201	- 564	Q - R	222	- 535

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.	
AE-AD	576 - 161	AD-AC	576 - 161	

Maximum Web Forces Per Ply (lbs)

Webs	Tens.C	comp.	Webs	Tens. (Comp.
AH- D	208	- 678	BF-BI	109	- 537
AF-AI	219	- 716	BG-AB	123	- 626
H -AI	158	- 420	BG-BJ	471	- 117
AI-AE	639	- 142	BI-BL	117	- 552
AC-BG	581	- 157	BJ-BM	470	- 116
BD-R	402	- 131	BL-BM	126	- 578
R -BF	121	- 591			

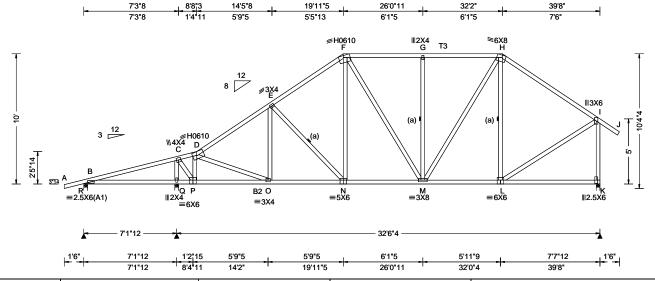
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SEQN: 84888 COMN Ply: 1 Job Number: 22-7038 Cust: R 215 JRef: 1Xe92150011 T142 FROM: DrwNo: 088.22.1535.55230 Qty: 2 Culverhouse Truss Label: A05 KD / WHK 03/29/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.053 G 999 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.102 G 999 180
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.016 E
Des Ld: 40.00	EXP: B Kzt: NA		HORZ(TL): 0.031 E
NCBCLL: 10.00	Mean Height: 15.00 ft TCDL: 4.2 psf	Building Code:	Creep Factor: 2.0
Soffit: 2.00	BCDL: 2.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.539
Load Duration: 1.25	MWFRS Parallel Dist: h to 2h	TPI Std: 2014	Max BC CSI: 0.535
Spacing: 24.0 "	C&C Dist a: 3.97 ft	Rep Fac: Yes	Max Web CSI: 0.723
-	Loc. from endwall: not in 9.00 ft	FT/RT:20(0)/10(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE, HS	VIEW Ver: 21.02.01.1216.15
Lumber			

	▲ Maximum Reactions (lbs)						
	Gravity				Non-Gravity		
)	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
)	R	319	/-	/-	/113	/67	/204
	Q	1912	/-	/-	/1004	/-	/-
	K	1595	/-	/-	/738	/-	/-
	Wii	nd rea	ctions ba	sed on	MWFRS		
	R	Brg V	Vid = 3.5	Min	Req = 1.5	(Trus	s)
	Q	Brg V	Vid = 3.5	Min	Req = 1.9	(Trus	s)
	K	Brg \	Vid = 3.5	Min	Req = 1.9	(Trus	s)
	Bea	arings	R, Q, & I	K are a	rigid surfa	ce.	
	Ме	mbers	not liste	d have f	orces less	than	375#
_	Ma	ximun	n Top Cl	nord Fo	rces Per	Ply (lk	os)
	Ch	ords ⁻	Tens.Cor	mp.	Chords	Tens.	Comp.

Top chord: 2x4 SP M-31; T3 2x4 SP #2; Bot chord: 2x4 SP #2; B2 2x4 SP M-31; Webs: 2x4 SP #3;

(a) Continuous lateral restraint equally spaced on

Loading

Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.

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.

	·		
B - C	421 - 102	F-G	45 - 1266
C - D	1 -515	G-H	45 - 1266
D - E	33 - 1689	H - I	46 - 1262
F-F	56 - 1558		

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.		Chords	Tens. Comp.		
B-Q	0	- 386	N - M	1210	0	
P - O	632	- 45	M - L	951	0	
O - N	1335	- 11				

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.	
Q-C	114 - 1700	M - H	591 0	
C - P	1443 - 31	L-I	1120 0	
P - D	46 - 1246	I-K	64 - 1539	
D - O	766 O			



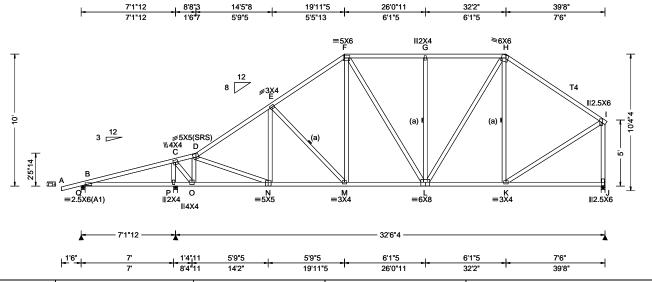
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SEQN: 57460 COMN Ply: 1 Job Number: 22-7038 Cust: R 215 JRef: 1Xe92150011 T66 FROM: DrwNo: 088.22.1535.53140 Qty: 1 Culverhouse Truss Label: A06 KD / WHK 03/29/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	T
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.047 G 999 240	
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.096 G 999 180	
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.015 K	ı
Des Ld: 40.00	EXP: B Kzt: NA		HORZ(TL): 0.030 K	ı
NCBCLL: 10.00	Mean Height: 15.00 ft TCDL: 4.2 psf	Building Code:	Creep Factor: 2.0	
Soffit: 2.00	BCDL: 4.2 psi	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.569	
Load Duration: 1.25	MWFRS Parallel Dist: h to 2h	TPI Std: 2014	Max BC CSI: 0.546	
Spacing: 24.0 "	C&C Dist a: 3.97 ft	Rep Fac: Yes	Max Web CSI: 0.594	
' "	Loc. from endwall: not in 9.00 ft	FT/RT:20(0)/10(0)		
	GCpi: 0.18	Plate Type(s):		
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17	
Lumber				_

		Gı	ravity		No	n-Grav	rity
5	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
)	Q	315	/-	/-	/97	/56	/180
		1794	/-	/-	/1031	/63	/-
	J	1323	/-	/-	/720	/27	/-
	Win	d reac	tions bas	sed on M	WFRS		
	Q	Brg W	/id = 3.5	Min R	eq = 1.5	(Truss	s)
	Р			Min R			
	J	Brg W	/id = 3.5	Min R	eq = 1.6	(Truss	i)
	Bea	rings (2, P, & J	are a rig	id surfac	ce.	
	Men	nbers ı	not listed	l have for	ces less	than 3	75#
_	Max	imum	Top Ch	ord Ford	es Per	Ply (lbs	s)
	Cho	rds T	ens.Con	ър. С	hords	Tens.	Comp.

▲ Maximum Reactions (lbs)

Top chord: 2x4 SP #2; T4 2x4 SP M-31; Bot chord: 2x4 SP #2; Webs: 2x4 SP #3;

Bracing

(a) Continuous lateral restraint equally spaced on

Wind

Wind loads based on MWFRS with additional C&C

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

B-C	469 - 167	F-G	364 - 1074
C - D	55 - 496	G-H	364 - 1074
D-E	298 - 1528	H-I	282 - 1096
F-F	364 - 1357		

Maximum Bot Chord Forces Per Ply (lbs)

Chords	I ens.C	Tens.Comp. Chords		Tens. Comp.		
B - P	72	- 435	M - L	1043	- 214	
O - N	605	- 139	L-K	817	- 160	
N - M	1200	- 253				

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.		
P-C	341 - 1585	L-H	482 - 152		
C - O	1380 - 265	K-I	983 - 193		
O - D	244 - 1134	J - I	294 - 1263		
D - N	650 - 127				



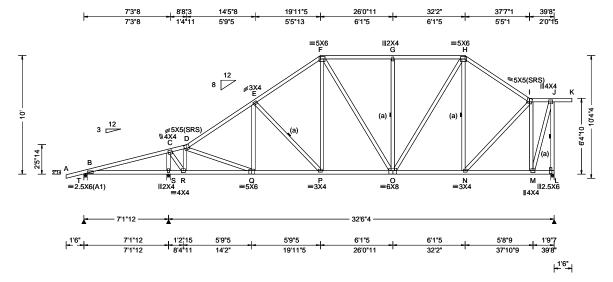
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SEQN: 57471 COMN Ply: 1 Job Number: 22-7038 Cust: R 215 JRef: 1Xe92150011 T140 FROM: DrwNo: 088.22.1535.50697 Qty: 1 Culverhouse Truss Label: A07 KD / WHK 03/29/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.054 G 999 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.109 G 999 180
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.017 E
Des Ld: 40.00	EXP: B Kzt: NA		HORZ(TL): 0.033 E
NCBCLL: 10.00	Mean Height: 15.00 ft TCDL: 4.2 psf	Building Code:	Creep Factor: 2.0
Soffit: 2.00	BCDL: 3.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.584
Load Duration: 1.25	MWFRS Parallel Dist: h to 2h	TPI Std: 2014	Max BC CSI: 0.476
Spacing: 24.0 "	C&C Dist a: 3.97 ft	Rep Fac: Yes	Max Web CSI: 0.845
'	Loc. from endwall: not in 9.00 ft	FT/RT:20(0)/10(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17
Lumber		•	•

	▲ Maximum Reactions (lbs)						
		G	ravity		No	n-Grav	/ity
5	Loc	R+	/ R-	/Rh	/ Rw	/ U	/ RL
)	Т	321	/-	/-	/102	/52	/174
	S	1792	/-	/-	/1031	/64	/-
	L	1404	/-	/-	/735	/106	/-
	Win	d reac	tions bas	sed on M\	NFRS		
	Т	Brg W	/id = 3.5	Min Re	eq = 1.5	(Truss	s)
	S	Brg W	/id = 3.5	Min Re	eq = 1.7	(Truss	s)
	L	Brg W	/id = 3.5	Min Re	eq = 1.7	(Truss	s)
	Bea	rings 1	Γ, S, & L	are a rigi	d surfac	e.	
	Mer	nbers	not listed	have for	ces less	than 3	375#
_	Max	imum	Top Ch	ord Forc	es Per	Ply (lb:	s)
	Cho	rds T	ens.Con	np. Ch	nords	Tens.	Comp.

B - C	462 - 190	F-G	349 - 1065
C - D	21 -402	G-H	349 - 1065
D-E	275 - 1490	H - I	276 - 1035
	2/17 1227		

Bracing

Top chord: 2x4 SP #2; Bot chord: 2x4 SP #2; Webs: 2x4 SP #3;

(a) Continuous lateral restraint equally spaced on

Wind

Wind loads based on MWFRS with additional C&C

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)					
	Charde		•		

Cilolus	rens.comp.		Onorda	rens. comp.		
B-S	56	- 426	P - O	1026	- 237	
R - Q	512	- 136	O - N	788	- 176	
Q - P	1169	- 273	N - M	419	- 94	

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
s-c	342 - 1566	O - H	518 - 159
C-R	1330 - 258	N - I	554 - 123
R - D	248 - 1152	I - M	303 - 1166
D - Q	717 - 151	M - J	1291 - 282
G - O	210 - 380	J - L	354 - 1394



WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!

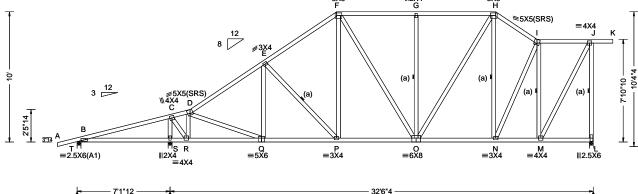
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SEQN: 57475 COMN Ply: 1 Job Number: 22-7038 Cust: R 215 JRef: 1Xe92150011 T115 FROM: DrwNo: 088.22.1535.48460 Qty: 1 Culverhouse Truss Label: A08 KD / WHK 03/29/2022





5'9"5

19'11"5

6'1"5

26'0"11

6'1"5

Loading Criteria	a (psf)	Wind Criteria	Snow Criteri	i a (Pg,	Pf in PSF)	Defl/CSI Cri	iteria	•	
TCLL: 20.00		Wind Std: ASCE 7-16	Pg: NA Ct	: NA	CAT: NA	PP Deflection	n in loc L	/defl	L/#
TCDL: 10.00		Speed: 130 mph	Pf: NA		Ce: NA	VERT(LL):	0.056 G	999	240
BCLL: 0.00		Enclosure: Closed	Lu: NA Cs	s: NA		VERT(CL):	0.114 G	999	180
BCDL: 10.00		Risk Category: II	Snow Duratio	n: NA		HORZ(LL):	0.017 E	-	-
Des Ld: 40.00	_	EXP: B Kzt: NA				HORZ(TL):	0.035 E	-	-
NCBCLL: 10.00		Mean Height: 15.00 ft	Building Code	e:		Creep Facto	r: 2.0		
Soffit: 2.00		TCDL: 4.2 psf BCDL: 3.0 psf	FBC 7th Ed. 2	2020 R	les.	Max TC CSI	: 0.587		
Load Duration: 1	1.25	MWFRS Parallel Dist: h to 2h	TPI Std: 201	14		Max BC CS	: 0.476		
Spacing: 24.0 "	-	C&C Dist a: 3.97 ft	Rep Fac: Yes	\$		Max Web C	SI: 0.507		
-,		Loc. from endwall: not in 9.00 ft	FT/RT:20(0)/1	10(0)					
		GCpi: 0.18	Plate Type(s)	:					
		Wind Duration: 1.60	WAVE			VIEW Ver: 2	1.02.00.10	05.17	,

5'9"5

14'2'

7'1"12

7'1"12

		▲ Maximum Reactions (lbs)							
	L/#		G	ravity	-	No	n-Grav	/ity	
9	240	Loc	R+	/ R-	/ Rh	/Rw	/ U	/R	
9	180	Т	319	/-	/-	/102	/49	/17	
	-	s	1794	/-	/-	/1035	/69	/-	
	-	L	1396	/-	/-	/708	/145	/-	
		Win	d read	tions bas	sed on MV	VFRS			
		Т	Brg W	/id = 3.5	Min Re	q = 1.5	(Truss	s)	
		S	Brg W	/id = 3.5	Min Re	q = 1.7	(Truss	s)	
		L	Brg W	/id = 3.5	Min Re	q = 1.6	(Truss	s)	
		Bea	rings 1	Γ, S, & L	are a rigio	surfac	e.		
		Mer	nbers	not listed	have force	es less	than 3	375#	
		Max	cimum	Top Ch	ord Force	es Per l	Ply (lb:	s)	
7	,				no. Ch				

3'5"9

35'7"9

ens. Comp. F-G B - C 340 - 1064 472 - 217 C-D 0 - 393 G-H 340 - 1064 D-E 275 - 980 261 - 1486 H - I F-F 337 - 1334 154 - 600

4'0"7

39'8

/RL

/170

Bracing

Lumber

Top chord: 2x4 SP #2;

Bot chord: 2x4 SP #2; Webs: 2x4 SP #3;

(a) Continuous lateral restraint equally spaced on

Wind

Wind loads based on MWFRS with additional C&C

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-S	45	- 436	P - O	1023	- 265
R - Q	503	- 150	O - N	777	- 201
Q-P	1166	- 300	N - M	640	- 166

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
s-c	348 - 1568	O - H	537 - 163
C - R	1331 - 260	I - M	314 - 1056
R - D	251 - 1154	M - J	1277 - 328
D-Q	723 - 165	J-L	411 - 1360
~ ~	247 202		



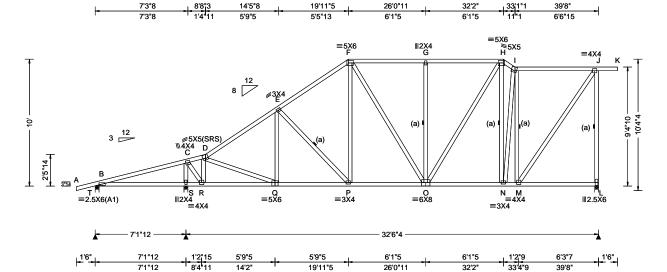
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SEQN: 57481 COMN Ply: 1 Job Number: 22-7038 Cust: R 215 JRef: 1Xe92150011 T141 FROM: DrwNo: 088.22.1535.45787 Qty: 1 Culverhouse Truss Label: A09 KD / WHK 03/29/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	DefI/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.059 G 999 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.118 G 999 180
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.018 E
Des Ld: 40.00	EXP: B Kzt: NA		HORZ(TL): 0.036 E
NCBCLL: 10.00	Mean Height: 15.00 ft TCDL: 4.2 psf	Building Code:	Creep Factor: 2.0
Soffit: 2.00	BCDL: 4.2 psi	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.589
Load Duration: 1.25	MWFRS Parallel Dist: h to 2h	TPI Std: 2014	Max BC CSI: 0.477
Spacing: 24.0 "	C&C Dist a: 3.97 ft	Rep Fac: Yes	Max Web CSI: 0.880
' "	Loc. from endwall: not in 9.00 ft	FT/RT:20(0)/10(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17
Lumber	_		_

Top chord: 2x4 SP #2; Bot chord: 2x4 SP #2; Webs: 2x4 SP #3;

Bracing

(a) Continuous lateral restraint equally spaced on

Wind

Wind loads based on MWFRS with additional C&C

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

Chords	Tens.Comp.	Tens. Comp.	
B-C	482 - 245	F-G	331 - 1062
C-D	0 - 384	G - H	331 - 1061
D-E	247 - 1481	H - I	308 - 985

Non-Gravity

/181

/RL

/166

/-

/Rw /U

/1040 /77

/102 /45

/714

Min Req = 1.5 (Truss)

Min Req = 1.7 (Truss)

Min Req = 1.6 (Truss)

▲ Maximum Reactions (lbs) Gravity

/Rh

/-

Wind reactions based on MWFRS Brg Wid = 3.5

Bearings T, S, & L are a rigid surface. Members not listed have forces less than 375# **Maximum Top Chord Forces Per Ply (lbs)**

/R

BrgWid = 3.5

Brg Wid = 3.5

Loc R+

318

1796 /-

1389

0 0	0 00-	O 11	001	1001
D - E	247 - 1481	H - I	308	- 985
E-F	327 - 1331	I - J	216	- 734

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.		Chords	Tens. (Tens. Comp.	
B-S	34	- 446	P - O	1020	- 295	
R-Q	494	- 163	O - N	772	- 228	
Q-P	1162	- 327	N - M	763	- 227	

Maximum Web Forces Per Ply (lbs)										
Webs	Tens.Comp.	Webs	Tens. C	comp.						
S-C	352 - 1570	O - H	542	- 166						
C - R	1332 - 265	I - M	337	- 924						

M - J

J-L

1290

457 - 1340

- 379

255 - 1155

728 - 180

217 - 393



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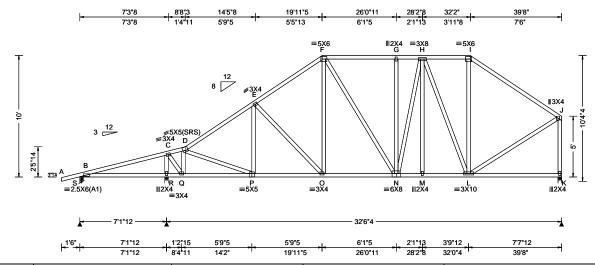
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SEQN: 57783 COMN Ply: 2 Job Number: 22-7038 Cust: R 215 JRef: 1Xe92150011 T77 FROM: Qty: 1 DrwNo: 088.22.1535.43690 Culverhouse Truss Label: A10 KD / WHK 03/29/2022





Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	DefI/CSI Criteria	
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 0.00 ft TCDL: 4.2 psf BCDL: 2.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. 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): 0.045 M 999 240 VERT(CL): 0.092 M 999 180 HORZ(LL): 0.013 L HORZ(TL): 0.026 L Creep Factor: 2.0 Max TC CSI: 0.637 Max BC CSI: 0.406 Max Web CSI: 0.644 VIEW Ver: 21.02.00.1005.17	
Lumber			_	_

	▲ M	aximu	ım Read	tions (lbs)			
		G	ravity	No	n-Grav	∕ity		
ю	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL	
30	s	265	/-6	/-	/-	/54	/-	
	R	2367	/-	/-	/-	/159	/-	
	K	2229	/-	/-	/-	/89	/-	
	Win	d read	tions ba	sed on	MWFRS			
	S	Brg W	/id = 3.5	Min	Req = 1.5	(Truss	s)	
	R	Brg W	/id = 3.5	Min	Req = 1.5	(Truss	s)	
	K	Brg V	/id = 3.5	Min	Req = 1.5	(Truss	s)	
	Bea	rings S	S, R, & ł	(are a	rigid surfa	ce.		
	Members not listed have forces less than 375#							
	Max	cimum	Top Cl	nord Fo	orces Per	Ply (lb	s)	
	Cho	rds T	ens.Cor	np.	Chords	Tens.	Ćomp.	

D-E	67 - 1086	G-H	31	- 1019
E-F	57 - 1062	H - I	24	- 773
F-G	31 - 1019	11	43	- 980

Chords

N - M

M - L

Tens. Comp.

- 24

- 24

0

692

-28

1026

1026

56 - 1084

Maximum Bot Chord Forces Per Ply (lbs)

- 48

Maximum Web Forces Per Ply (lbs)

Chords Tens.Comp.

871

841 - 37

P - 0

O - N

Nailnote

Nail Schedule:0.128"x3", min. nails Top Chord: 1 Row @12.00" o.c. Bot Chord: 1 Row @12.00" o.c. :1 Row @ 4" o.c.

Use equal spacing between rows and stagger nails

in each row to avoid splitting.

Top chord: 2x4 SP #2; Bot chord: 2x4 SP #2; Webs: 2x4 SP #3;

Special Loads

--(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25) 61 plf at -1.50 to 61 plf at TC: From 8.68 8.68 to 64 plf at 39.67 TC: From 64 plf at BC: From 4 plf at -1.50 to 4 plf at 0.00 BC: From 20 plf at 0.00 to BC: 1400 lb Conc. Load at 28.21 0.00 to 20 plf at 39.67

In lieu of rigid ceiling use purlins to brace BC @ 24" OC.

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.

Tens. Comp. Webs Tens.Comp. Webs R-C 87 - 1064 H - M 672 C - Q 941 - 42 H-L Manual and Manual Andrews Q-D 52 - 820 902 D-P 556 - 24

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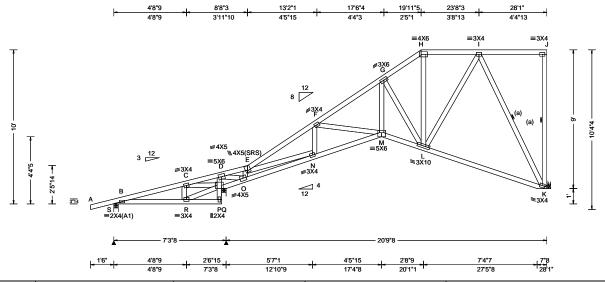
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COA #0278 ONAL



SEQN: 57767 COMN Ply: 1 Job Number: 22-7038 Cust: R 215 JRef: 1Xe92150011 T143 FROM: DrwNo: 088.22.1535.35083 Qty: 3 Culverhouse Truss Label: A11 KD / WHK 03/29/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Ī
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.068 M 999 240	١.
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.141 M 999 180	
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.054 K	
Des Ld: 40.00	EXP: B Kzt: NA Mean Height: 15.00 ft		HORZ(TL): 0.113 K	
NCBCLL: 10.00	TCDL: 4.2 psf	Building Code:	Creep Factor: 2.0	
Soffit: 2.00	BCDL: 2.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.464	
Load Duration: 1.25	MWFRS Parallel Dist: h to 2h	TPI Std: 2014	Max BC CSI: 0.679	
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.714	
-	Loc. from endwall: not in 9.00 ft	FT/RT:20(0)/10(0)		
	GCpi: 0.18	Plate Type(s):		4
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17	╝.

L	u	n	۱l	b	er

Top chord: 2x4 SP #2; Bot chord: 2x4 SP #2; Webs: 2x4 SP #3;

Bracing

(a) Continuous lateral restraint equally spaced on

Hangers / Ties

(J) Hanger Support Required, by others

Purlins

In lieu of rigid ceiling use purlins to brace BC @ 24" OC.

Wind

Wind loads based on MWFRS with additional C&C

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

Additional Notes

Shim all supports to solid bearing.

Pf in PSF)	DefI/CSI Criteria			▲ Maximum Reactions (lbs)						
CAT: NA	PP Deflection in loc L	/defl	L/#		G	ravity	-	No	on-Gra	vity
Ce: NA	VERT(LL): 0.068 M		240	Loc	: R+	/ R-	/ Rh	/Rw	/U	/ RL
	VERT(CL): 0.141 M	999	180	s	307	/-	/-	/90	/57	/171
	HORZ(LL): 0.054 K	-	-	Р	1358	/-	/-	/802	/-	/-
	HORZ(TL): 0.113 K	-	-	Κ	858	/-	/-	/494	/-	/-
	Creep Factor: 2.0			Wir	nd read	tions b	ased on M	IWFRS		
es.	Max TC CSI: 0.464			S			.5 Min R			
	Max BC CSI: 0.679			Р			.5 Min R		(Trus	s)
	Max Web CSI: 0.714				arings (are a rigid			
				Me	mbers	not list	ed have fo	rces les	s than	375#

Chords	Tens.C	Comp.	Chords	Tens.	Comp.
B-C	381	- 211	F-G	76	- 1487
C-D	1426	- 232	G-H	30	- 851
D - E	0	- 478	H-I	35	- 669
E-F	93	- 1879			

Maximum Top Chord Forces Per Ply (lbs)

/171

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.C	omp.	Chords	Tens. (Comp.
P - O	18 -	- 1429	M - L	1206	- 141
O - N	792	- 154	L-K	433	-8
N - M	1602	- 244			

Maximum Web Forces Per Ply (lbs)

vvebs	rens.Comp.	webs	rens. (Jomp.
C - P	75 - 1186	M - G	960	- 127
P - D	98 - 1054	G-L	188	- 977
D - O	1874 - 130	L-I	570	- 64
O - E	111 - 967	I - K	5	- 887
E-N	809 - 89			



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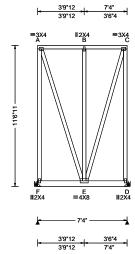
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SEQN: 84893 FLAT Ply: 2 Job Number: 22-7038 Cust: R 215 JRef: 1Xe92150011 T149 FROM: DrwNo: 088.22.1535.32070 Qty: 1 Culverhouse Truss Label: A12 KD / WHK 03/29/2022

2 Complete Trusses Required



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
Coading Criteria (pst) TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffiit: 2.00 Load Duration: 1.25 Spacing: 24.0 TCDL: 20.00 Coading: 24.0 Coading:	Wind Criteria Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.56 ft TCDL: 4.2 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: No	PP Deflection in loc L/defl L/# VERT(LL): 0.012 B 999 240 VERT(CL): 0.023 B 999 180 HORZ(LL): 0.002 A HORZ(TL): 0.003 A Creep Factor: 2.0 Max TC CSI: 0.057 Max BC CSI: 0.153 Max Web CSI: 0.568
	GCpi: 0.18 Wind Duration: 1.60	Plate Type(s): WAVE	VIEW Ver: 21.02.01.1216.15
Lumber		•	•

	▲ Maximum Reactions (lbs)								
		G	ravity		N	on-Grav	/ity		
0	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL		
0	F	1382	/-	/-	/71	/-	/-		
	D	1484	/-	/-	/79	/-	/-		
	Win	d reac	tions l	based o	n MWFRS				
	F	Brg V	Vid = -	Mi	n Req = -				
	D	Brg V	Vid = -	Mi	n Req = -				
	Mer	nbers	not lis	ted have	e forces les	s than 3	375#		
	Maximum Web Forces Per Ply (lbs)								
	Wel	bs T	ens.C	omp.	Webs	Tens.	Comp.		
	A - I	F	0	- 499	E-C	538	0		
	A -	E	501	0	C-D	0	- 536		

Top chord: 2x4 SP #2; Bot chord: 2x6 SP 2400f-2.0E; Webs: 2x4 SP #3;

Nailnote

Nail Schedule:0.128"x3", min. nails Top Chord: 1 Row @12.00" o.c. Bot Chord: 1 Row @ 4.25" 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.=1.25 / Plate Dur.Fac.=1.25) C: From 30 plf at 0.00 to 30 plf at 7.33 0.00 to 30 plf at 0.00 to 10 plf at TC: From BC: From 10 plf at BC: 858 lb Conc. Load at 1.81, 3.81, 5.81

Hangers / Ties

(J) Hanger Support Required, by others

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

Wind loads and reactions based on MWFRS. End verticals not exposed to wind pressure.

Additional Notes

Truss must be installed as shown with top chord up.



03/29/2022

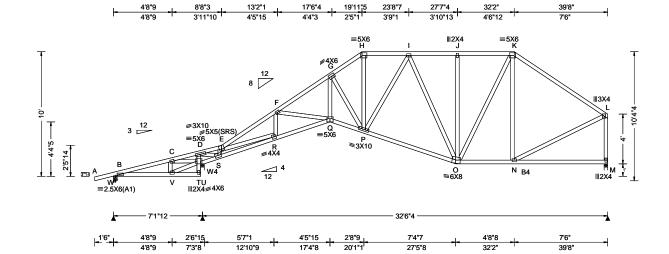
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Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A 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 6750 Forum Drive Suite 305 Orlando FL, 32821 SEQN: 57784 COMN Ply: 2 Job Number: 22-7038 Cust: R 215 JRef: 1Xe92150011 T78 FROM: Qty: 1 DrwNo: 088.22.1535.20370 Culverhouse Truss Label: A13 KD / WHK 03/29/2022





Loading Crit	teria (psf)	Wind Criteria	Snow Crit	teria (Pg	,Pf in PSF)	Defl/CSI Cr	iteria		
TCLL: 20	.00	Wind Std: ASCE 7-16	Pg: NA	Ct: NA	CAT: NA	PP Deflection	on in loc l	_/defl	L/#
TCDL: 10		Speed: 130 mph	Pf: NA		Ce: NA	VERT(LL):	0.128 Q	999	240
BCLL: 0.	.00	Enclosure: Closed	Lu: NA	Cs: NA		VERT(CL):	0.261 Q	999	180
BCDL: 10	.00	Risk Category: II	Snow Dura	ation: NA		HORZ(LL):	0.075 M	-	-
NCBCLL: 0.0	0.00 00 00 on: 1.25	MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.97 ft	Building C FBC 7th E TPI Std: : Rep Fac: I FT/RT:20(d. 2020 F 2014 No	Res.	HORZ(TL): Creep Facto Max TC CS Max BC CS Max Web C	or: 2.0 I: 0.633 I: 0.605		-
		GCpi: 0.18	Plate Type	e(s):					
		Wind Duration: 1.60	WAVE			VIEW Ver: 2	21.02.00.1	005.17	7

4'8"9

Top chord: 2x4 SP #2; Bot chord: 2x4 SP #2; B4 2x4 SP M-31; Webs: 2x4 SP #3; W4 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. :1 Row @ 4" o.c.

Use equal spacing between rows and stagger nails

in each row to avoid splitting.

Special Loads

(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)							
TC: From	61 plf at	-1.50 to	61 plf at	8.68			
TC: From	64 plf at	8.68 to	64 plf at	19.94			
TC: From	61 plf at	19.94 to	61 plf at	32.17			
TC: From	64 plf at	32.17 to	64 plf at	39.67			
BC: From	4 plf at	-1.50 to	4 plf at	0.00			
BC: From	20 plf at	0.00 to	20 plf at	7.00			
BC: From	21 plf at	7.00 to	21 plf at	27.46			
BC: From	20 plf at	27.46 to	20 plf at	39.67			
BC: 1504 lb Conc. Load at 28 21							

Plating Notes

All plates are 3X4 except as noted.

Purlins

In lieu of rigid ceiling use purlins to brace BC @ 24" OC.

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.

Additional Notes

Negative reaction(s) of -195# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

Chords Tens.Comp. Chords Tens. Comp. B - C - 1297 C-D 1733 I-J 24 - 1178 - 94 E-F 116 - 2252 24 - 1180 J - K F-G 108 - 2286 K-I 42 - 1104 G - H 65 - 1566

Non-Gravity

/40

/82

/161 /-

/RL

/Rw / U

Min Req = 1.5 (Truss)

Min Req = 1.5 (Truss)

Min Req = 1.5 (Truss)

Maximum Bot Chord Forces Per Ply (lbs)

▲ Maximum Reactions (lbs) Gravity

/-195

BrgWid = 3.5

Brg Wid = 3.5

Wind reactions based on MWFRS Brg Wid = 3.5

Bearings W, T, & M are a rigid surface. Members not listed have forces less than 375# **Maximum Top Chord Forces Per Ply (lbs)**

/Rh

Loc R+

2619 /-

2257

W 135

Chords	Tens.Comp.	Chords	Tens. C	omp.
B - V	18 - 591	Q-P	1946	- 88
T-S	95 - 1763	P - O	1332	- 50
S - R	619 - 38	O - N	869	- 23
R-Q	1965 - 100			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp	٠.
C-T	71 - 1172	Q - G	1260 - 5	-
V - T	15 - 546	G-P	64 - 112	4
T - D	67 - 1100	H - P	755 - 10	0
D - S	2046 - 107	O - K	653 - 2	2
S - E	73 - 1054	N - L	954 - 24	4
E-R	1293 - 57	L - M	52 - 110	7



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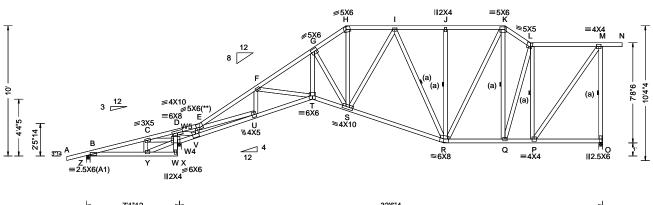
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Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A 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



SEQN: 57768 COMN Ply: 1 Job Number: 22-7038 Cust: R 215 JRef: 1Xe92150011 T148 FROM: DrwNo: 088.22.1535.11503 Qty: 1 Culverhouse Truss Label: A14 KD / WHK 03/29/2022 19'11<u>"</u>5 4'8"9 8'8"3 13'2"1 17'6"4 23'8"7 39'8" 4'8"9 3'11"10 4'5"15 4'4"3 2'5"1 3'10"13 4'6"12 5'6"9



k	7'1 " 12	*			32'6"4				-1
1'6"	4'8"9 4'8"9	2'6"15 7'3"8	5'7"1 12'10"9	 2'8"9 20'1"1	7'4"7 27'5"8	4'8"8	2'2"15 34'4"15	5'3"1 39'8"	1'6"

Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.171 T 999 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.347 T 999 180
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.099 P
Des Ld: 40.00	EXP: B Kzt: NA		HORZ(TL): 0.203 P
NCBCLL: 10.00	Mean Height: 15.00 ft TCDL: 4.2 psf	Building Code:	Creep Factor: 2.0
Soffit: 2.00	BCDL: 3.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.786
Load Duration: 1.25	MWFRS Parallel Dist: > 2h	TPI Std: 2014	Max BC CSI: 0.702
Spacing: 24.0 "	C&C Dist a: 3.97 ft	Rep Fac: Yes	Max Web CSI: 0.817
-	Loc. from endwall: not in 9.00 ft	FT/RT:20(0)/10(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17
	•	•	

Gravity Non-Gravity Loc R+ /Rh /Rw / U /RL Z 249 /-83 /168 W 1953 /1140 /90 /-/-/-/-1385 /709 /160 Wind reactions based on MWFRS Brg Wid = 3.5 Min Req = 1.5 (Truss) Brg Wid = 3.5Min Req = 2.1 (Truss) Brg Wid = 3.5Min Req = 1.6 (Truss) Bearings Z, W, & O are a rigid surface. Members not listed have forces less than 375# **Maximum Top Chord Forces Per Ply (lbs)**

▲ Maximum Reactions (lbs)

Chords Tens.Comp. Chords Tens. Comp. B - C 440 - 1559 811 - 352 C-D 2457 - 618 I-J 340 - 1121

D-E 0 -454 343 - 1126 J - K 623 - 3067 K-I 310 - 1066 F-F F-G 690 - 2903 L - M 209 - 768 G-H 502 - 1904

Chords

S-R

R - Q

Q - P

2437

1460

847

807

- 642

- 409

- 231

- 222

Maximum Bot Chord Forces Per Ply (lbs)

Chords Tens.Comp.

151

922 - 235

2656

446 - 2495

B - Y

W - V

V - U

U-T

Lumber

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

Webs: 2x4 SP #3; W4,W5 2x4 SP #2;

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

All plates are 3X4 except as noted.

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

Purlins

In lieu of rigid ceiling use purlins to brace BC @ 24" OC.

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.



- 680 Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C-Y	421 - 44	G-S	406 - 1548
C - W	327 - 1773	H-S	838 - 197
Y - W	136 - 703	S-I	391 - 54
W - D	331 - 1593	I-R	182 - 605
D - V	2926 - 574	R - K	583 - 167
V - E	339 - 1491	L-P	324 - 981
E - U	1681 - 423	P - M	1327 - 361
T - G	1663 - 404	M - O	429 - 1341

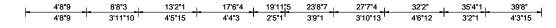
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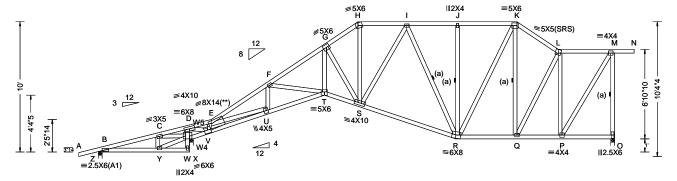
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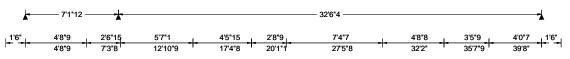
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SEQN: 57769 COMN Ply: 1 Job Number: 22-7038 Cust: R 215 JRef: 1Xe92150011 T145 FROM: DrwNo: 088.22.1535.09180 Qty: 1 Culverhouse Truss Label: A15 KD / WHK 03/29/2022







Landing Originals (0	Min d Onit onit	Consum Coltania (D. DC) DOE)	D-4/001 0-iti-
Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	DefI/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.170 T 999 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.347 T 999 180
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.100 P
Des Ld: 40.00	EXP: B Kzt: NA Mean Height: 15.00 ft		HORZ(TL): 0.204 P
NCBCLL: 10.00	TCDL: 4.2 psf	Building Code:	Creep Factor: 2.0
Soffit: 2.00	BCDL: 3.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.793
Load Duration: 1.25	MWFRS Parallel Dist: > 2h	TPI Std: 2014	Max BC CSI: 0.705
Spacing: 24.0 "	C&C Dist a: 3.97 ft	Rep Fac: Yes	Max Web CSI: 0.881
	Loc. from endwall: not in 9.00 ft	FT/RT:20(0)/10(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17
Lumber			

Non-Gravity Gravity /U Loc R+ /Rh /Rw Z 251 /55 /170 W 1950 /1137 /85 /-/-1389 /710 Wind reactions based on MWFRS Brg Wid = 3.5 Min Req = 1.5 (Truss) Brg Wid = 3.5Min Req = 2.1 (Truss) Brg Wid = 3.5Min Req = 1.6 (Truss) O Bearings Z, W, & O are a rigid surface. Members not listed have forces less than 375# **Maximum Top Chord Forces Per Ply (lbs)**

▲ Maximum Reactions (lbs)

Chords Tens.Comp. Chords Tens. Comp. B - C - 1563 798 - 328 436 C-D 2452 - 595 344 - 1122 I - J

347 - 1127 D-E 0 -484 J - K 616 - 3080 K-I 298 - 1079 F-F F-G 677 - 2910 L - M 174 - 688 G-H 498 - 1909

Chords

S-R

R - Q

2444

1463

853

734

-608

- 388

- 216

- 187

Maximum Bot Chord Forces Per Ply (lbs)

Chords Tens.Comp.

149

952 - 231

444 - 2490

B - Y

W - V

V - U

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

Top chord: 2x4 SP #2;

Bot chord: 2x4 SP #2;

All plates are 3X4 except as noted.

Webs: 2x4 SP #3; W4,W5 2x4 SP #2;

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

Purlins

In lieu of rigid ceiling use purlins to brace BC @ 24" OC.

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.



Mavimu	m Wah	Force	s Per Plv (I	he\
U - T	2668	- 652	Q - P	7

Webs	Tens.Comp.	Webs	Tens. Comp.
C-Y	417 -43	G-S	391 - 1553
C - W	326 - 1780	H-S	841 - 196
Y - W	135 - 690	S-I	393 - 45
W - D	330 - 1609	I-R	175 - 608
D - V	2954 - 569	R - K	574 - 164
V - E	333 - 1492	L-P	311 - 1043
E - U	1663 - 400	P - M	1317 - 332
T - G	1669 - 386	M - O	404 - 1354

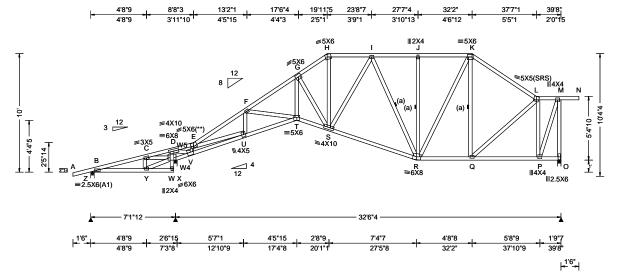
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SEQN: 57770 COMN Ply: 1 Job Number: 22-7038 Cust: R 215 JRef: 1Xe92150011 T147 FROM: DrwNo: 088.22.1535.07093 Qty: 1 Culverhouse Truss Label: A16 KD / WHK 03/29/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	DefI/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.168 T 999 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.344 T 999 180
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.100 P
Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25	EXP: B Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 3.0 psf MWFRS Parallel Dist: > 2h	Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014	HORZ(TL): 0.205 P Creep Factor: 2.0 Max TC CSI: 0.783 Max BC CSI: 0.711
Spacing: 24.0 "	C&C Dist a: 3.97 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18	Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s):	Max Web CSI: 0.818
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17
Lumber			•

	▲ N	laximu	ım Rea	ctions (lbs)			
		G	ravity		No	n-Gra	vity	
0	Loc	: R+	/ R-	/ Rh	/ Rw	/ U	/ RL	
0	z	249	/-82	/-	/53	/69	/174	
	W	1954	/-	/-	/1138	/79	/-	
	0	1395	/-	/-	/737	/101	/-	
	Wir	nd read	tions b	ased on	MWFRS			
	Z	Brg V	/id = 3.	5 Min	Req = 1.5	(Trus	s)	
	W	Brg V	/id = 3.	5 Min	Req = 2.1	(Trus:	s)	
	0	Brg V	/id = 3.	5 Min	Req = 1.6	(Trus	s)	
	Bea	arings 2	Z, W, &	O are a	rigid surfa	ice.		
	Mei	mbers	not liste	ed have f	forces less	than :	375#	
	Max	ximum	Top C	hord Fo	rces Per	Plv (lb	s)	
					Chords			

B-C	808 - 292	H-I	426	- 1563
C-D	2448 - 556	I - J	350	- 1121
D-E	6 -463	J-K	352	- 1125
E-F	599 - 3074	K-L	294	- 1132
F-G	652 - 2909	L - M	93	- 436
G-H	490 - 1909			

Bot chord: 2x4 SP #2; Webs: 2x4 SP #3; W4,W5 2x4 SP #2; (a) Continuous lateral restraint equally spaced on member. Maximum Bot Chord Forces Per Ply (lbs)

All plates are 3X4 except as noted. (**) 1 plate(s) require special positioning. Refer to

scaled plate plot details for special positioning requirements.

Purlins

Plating Notes

Top chord: 2x4 SP #2;

In lieu of rigid ceiling use purlins to brace BC @ 24" OC.

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.



Onlords	rens.comp.	Onlords	i Cilo. C	Joinp.
B - Y	152 - 771	T-S	2442	- 548
W - V	443 - 2486	S-R	1464	- 350
V - U	932 - 210	R - Q	866	- 189
U - T	2662 - 596	Q-P	502	- 110

Chords

Maximum Web Forces Per Ply (lbs)

Chords Tens Comp

Webs	Tens.Comp.	Webs	Tens. Comp.	
C-Y	420 - 44	H-S	842 - 193	
C - W	322 - 1767	S-I	391 - 35	
Y - W	139 - 700	I-R	164 - 614	
W - D	319 - 1593	R - K	544 - 158	
D - V	2926 - 549	Q-L	499 - 108	
V - E	324 - 1494	L-P	301 - 1159	
E - U	1678 - 368	P - M	1316 - 281	
T - G	1666 - 350	M - O	347 - 1391	
G-S	362 - 1551			

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SEQN: 57718 COMN Ply: 1 Job Number: 22-7038 Cust: R 215 JRef: 1Xe92150011 T83 FROM: DrwNo: 088.22.1535.05163 Qty: 1 Culverhouse Truss Label: A17 / WHK 03/29/2022 4'8"9 8'8"3 13'2"1 19'11<u>"</u>5 23'8"7 39'8" 3'11"10 4'5"15 4'4"3 2'5"1 3'9"1 3'10"13 4'6"12 ≅6X6 K ≶5X5 ∥2X4 8 12 T4 III2.5X6 3 12 Q ≡5X6 P ≥4X10 4'4"5 12 4 O ≋6X8 TU ⊪2X4*≶*6X6 =2.5X6(A1) - 7'1"12 32'6"4 ╁

2'8"9

20'1"1

7'4"7

27'5"8

4'8"8

32'2

4'5"15

17'4"8

Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	DefI/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.164 Q 999 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.337 Q 999 180
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.098 M
Des Ld: 40.00	EXP: B Kzt: NA		HORZ(TL): 0.202 M
NCBCLL: 10.00	Mean Height: 15.00 ft TCDL: 4.2 psf	Building Code:	Creep Factor: 2.0
Soffit: 2.00	BCDL: 4.2 psi	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.773
Load Duration: 1.25	MWFRS Parallel Dist: > 2h	TPI Std: 2014	Max BC CSI: 0.722
Spacing: 24.0 "	C&C Dist a: 3.97 ft	Rep Fac: Yes	Max Web CSI: 0.819
-	Loc. from endwall: not in 9.00 ft	FT/RT:20(0)/10(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17

12'10"9

2'6"15

	▲ N	naxımu	ım Kea	ctions (II	os)			
		G	ravity		No	n-Gra	vity	
,	Loc	: R+	/ R-	/ Rh	/ Rw	/ U	/ RL	
,	w	248	/-84	/-	/53	/72	/177	
	Т	1959	/-	/-	/1141	/77	/-	
	М	1303	/-	/-	/713	/20	/-	
	Wii	nd read	tions b	ased on N	/WFRS			
	W	Brg W	/id = 3.	5 Min F	Req = 1.5	(Trus	s)	
	Т	Brg W	/id = 3.	5 Min F	Req = 2.2	(Trus	s)	
	М	Brg W	/id = 3.	5 Min F	Req = 1.5	(Trus	s)	
	Bea	arings \	N, T, &	M are a	rigid surfa	ice.		
	Members not listed have forces less than 375#							
_	Ma	ximum	Top C	hord For	ces Per	Ply (lk	os)	
	Ch	ords T	ens Co	mn (Chords	Tens	Comp	

7'6"

Lumber

Top chord: 2x4 SP #2; T4 2x4 SP M-31; Bot chord: 2x4 SP #2; Webs: 2x4 SP #3; W4,W5 2x4 SP #2;

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

All plates are 3X4 except as noted.

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

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	ords Tens.Comp. Chords		Tens. Comp.		
B - V	155 - 777	Q-P	2447	- 502	
T - S	444 - 2475	P - O	1470	- 322	
S - R	925 - 193	O - N	892	- 173	
R-Q	2665 - 550				

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C-V	420 - 45	G-P	338 - 1552
C - T	318 - 1752	H - P	848 - 193
V - T	143 - 706	P - I	389 - 37
T - D	312 - 1579	I - O	157 - 625
D - S	2902 - 535	O - K	490 - 149
S-E	318 - 1498	N - L	968 - 187
E-R	1687 - 340	L - M	283 - 1236
Q - G	1667 - 321		



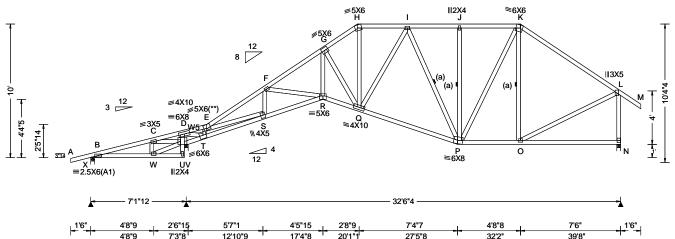
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SEQN: 57771 COMN Ply: 1 Job Number: 22-7038 Cust: R 215 JRef: 1Xe92150011 T74 FROM: DrwNo: 088.22.1535.03357 Qty: 1 Culverhouse Truss Label: A18 KD / WHK 03/29/2022 4'8"9 8'8"3 13'2"1 17'6"4 19'11<u>"</u>5 23'8"7 39'8" 4'8"9 3'11"10 4'5"15 4'4"3 2'5"1 3'9"1 3'10"13 4'6"12 7'6"



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.166 R 999 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.345 R 999 180
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.098 N
Des Ld: 40.00	EXP: B Kzt: NA Mean Height: 15.00 ft		HORZ(TL): 0.205 N
NCBCLL: 10.00	TCDL: 4.2 psf	Building Code:	Creep Factor: 2.0
Soffit: 2.00	BCDL: 2.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.878
Load Duration: 1.25	MWFRS Parallel Dist: > 2h	TPI Std: 2014	Max BC CSI: 0.731
Spacing: 24.0 "	C&C Dist a: 3.97 ft	Rep Fac: Yes	Max Web CSI: 0.830
	Loc. from endwall: not in 9.00 ft	FT/RT:20(0)/10(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17
Lumber			

▲ Maximum Reactions (lbs) Non-Gravity Gravity Loc R+ /Rh /Rw /U /RL Х 246 /-84 /49 /204 U 1974 /-/1161 /-/-1431 /-/808 Wind reactions based on MWFRS Brg Wid = 3.5 Min Req = 1.5 (Truss) Brg Wid = 3.5 Min Req = 2.2 (Truss) Brg Wid = 3.5 Min Req = 1.7 (Truss) Bearings X, U, & N are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

B - C - 1950 G - H C-D 2478 H - I 0 - 1597 - 60 D-E 2 - 476 5 - 1145 1 - J F-F 0 - 3124 .I - K 4 - 1150 - 1212 F-G 0 - 2964K - I 6

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

Top chord: 2x4 SP #2;

Bot chord: 2x4 SP #2;

All plates are 3X4 except as noted.

Webs: 2x4 SP #3; W5 2x4 SP #2;

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

Purlins

In lieu of rigid ceiling use purlins to brace BC @ 24" OC.

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.C	omp.	Chords	Tens. Co	omp.
B-W	0	- 780	R - Q	2490	0
U - T	14 -	2503	Q-P	1502	0
T-S	952	- 54	P - O	904	0
S - R	2706	0			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C-W	427 0	G-Q	55 - 1573
C - U	77 - 1787	H-Q	861 0
W - U	0 -717	Q - I	390 - 51
U - D	58 - 1611	I - P	2 - 640
D - T	2955 - 43	P - K	514 0
T - E	56 - 1515	O - L	983 0
E-S	1700 0	L-N	34 - 1364
R-G	1693 0		



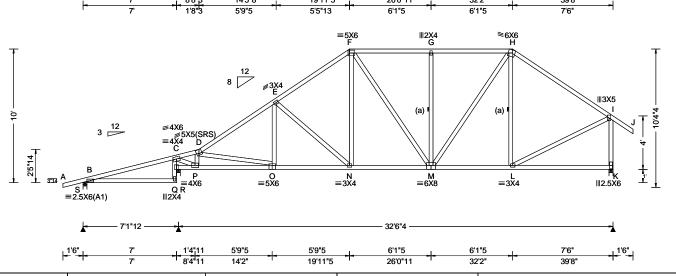
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SEQN: 57544 COMN Ply: 1 Job Number: 22-7038 Cust: R 215 JRef: 1Xe92150011 T121 FROM: Qty: 1 DrwNo: 088.22.1535.01063 Culverhouse Truss Label: A19 KD / WHK 03/29/2022 14'5"8 19'11"5 26'0"11 39'8"



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	DefI/CSI Criteria	
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00	Wind Criteria Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 3.0 psf MWFRS Parallel Dist: > 2h C&C Dist a: 3.97 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s):	PP Deflection in loc L/defl L/# VERT(LL): 0.065 N 999 240 VERT(CL): 0.134 N 999 180 HORZ(LL): 0.018 K HORZ(TL): 0.037 K Creep Factor: 2.0 Max TC CSI: 0.833 Max BC CSI: 0.542 Max Web CSI: 0.726	
Lumber	Willa Baration. 1.00	WAVE	VILVV VCI. 21.02.00.1000.17	١.

	۸N	▲ Maximum Reactions (lbs)						
		G	ravity		No	on-Gra	vity	
)	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL	
)	s	344	/-	/-	/148	/55	/201	
	Q	1704	/-	/-	/989	/69	/-	
	Κ	1444	/-	/-	/798	/37	/-	
	Wi	nd read	tions ba	ased on N	JWFRS			
	S	Brg V	Vid = 3.	5 Min F	Req = 1.5	(Trus	s)	
	Q			5 Min F				
	K	Brg V	Vid = 3.	5 Min F	Req = 1.7	' (Trus	s)	
	Bea	arings :	S, Q, &	K are a ri	igid surfa	ce.		
	Ме	mbers	not liste	ed have fo	orces less	than	375#	
_	Ma	ximun	Top C	hord For	rces Per	Ply (lb	s)	
	Ch	ords 1	ens.Co	mp. (Chords	Tens.	Comp.	

C-D F-G 402 - 1225 224 - 1464 D-E 382 - 1950 G-H 402 - 1225 E-F - 1228 405 - 1554 321

Bracing

Top chord: 2x4 SP #2;

Bot chord: 2x4 SP #2; Webs: 2x4 SP #3;

(a) Continuous lateral restraint equally spaced on

Wind

Wind loads based on MWFRS with additional C&C

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. C	omp.
P-0	1611 - 293	N - M	1206	- 217
O - N	1544 - 297	M - L	918	- 163

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
Q-C	337 - 1601	F-N	467 - 36
C - P	1907 - 340	M - H	534 - 163
P - D	204 - 870	L-I	999 - 176
E - N	109 - 453	I-K	336 - 1379



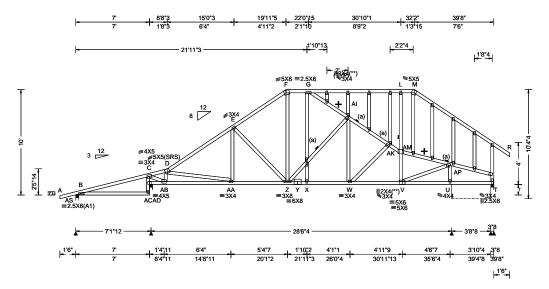
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SEQN: 57772 GABL Ply: 1 Job Number: 22-7038 Cust: R 215 JRef: 1Xe92150011 T112 FROM: DrwNo: 088.22.1534.58987 Qty: 1 Culverhouse Truss Label: A20 KD / WHK 03/29/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.077 Z 999 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.158 Z 999 180
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.053 Q
Des Ld: 40.00	EXP: B Kzt: NA		HORZ(TL): 0.109 Q
NCBCLL: 10.00	Mean Height: 15.00 ft TCDL: 4.2 psf	Building Code:	Creep Factor: 2.0
Soffit: 2.00	BCDL: 4.2 psi	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.705
Load Duration: 1.25	MWFRS Parallel Dist: > 2h	TPI Std: 2014	Max BC CSI: 0.594
Spacing: 24.0 "	C&C Dist a: 3.97 ft	Rep Fac: Yes	Max Web CSI: 0.893
' -	Loc. from endwall: not in 9.00 ft	FT/RT:20(0)/10(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17

by others.

Lumber

Top chord: 2x4 SP #2; Bot chord: 2x4 SP #2; Webs: 2x4 SP #3;

Bracing

(a) Continuous lateral restraint equally spaced on

Plating Notes

All plates are 2X4 except as noted.

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

Loading

Gable end supports 8" max rake overhang. Top chord must not be cut or notched.

Purlins

In lieu of rigid ceiling use purlins to brace BC @ 24"

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

See DWGS A14015ENC160118 & GBLLETIN0118 for gable wind bracing and other requirements.

+ Member to be laterally braced for horizontal wind loads. bracing system to be desiged and furnished



▲ Maximum Reactions (lbs), or *=PLF					
	Gravity		No	on-Gra	vity
Loc R	- /R-	/ Rh	/ Rw	/ U	/ RL
AS 344	/-	/-	/149	/55	/201
AC 153	2 /-	/-	/897	/68	/-
U* 382	/-	/-	/207	/3	/-
T 227	/-	/-	/178	/42	/-
Wind re	actions b	ased on	MWFRS		
AS Brg	Wid = 3.	5 Min	Req = 1.5	(Trus	s)
AC Brg	Wid = 3.	5 Min	Req = 1.8	(Trus	s)
U Brg	Wid = 44	1.5 Min	Req = -		
T Brg	Wid = 3.	5 Min	Req = 1.5	(Trus	s)
Bearing	s AS, AC	, U, & T	are a rigid	surfac	e.
Member	rs not liste	ed have	forces less	s than :	375#
Maximum Top Chord Forces Per Ply (lbs)					
Chords	Tens.Co	mp.	Chords	Tens.	Ćomp.
C-D	192 -	1251	E-F	359	- 1208
D-E	334 -	1625	F-G	325	- 918

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.		Chords	Tens. (Comp.
AB-AA	1382	- 258	X - W	1127	- 246
AA- Z	1263	- 247	W - V	1325	- 281
Z - Y	1127	- 246	U - T	13	- 400
V - X	1127	- 246			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
AC- C	309 - 1432	AI-AK	299 - 1308
C -AB	1696 - 305	AK-AM	329 - 1458
AB- D	192 - 761	AM- V	132 - 491
E - Z	119 - 508	AM-AP	293 - 1327
F-Z	492 - 129	V -AP	1575 - 289
G -AI	268 - 1097	AP- U	280 - 1299

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SEQN: 57546 COMN Ply: 1 Job Number: 22-7038 Cust: R 215 JRef: 1Xe92150011 T136 FROM: DrwNo: 088.22.1534.22757 Qty: 5 Culverhouse Truss Label: A21 KD / WHK 03/29/2022 15'0"3 21'0"11 25'8"12 30'8"5 35'4"12 40'4" 46'8" 6'0"8 4'8"1 4'11"9 4'8"6 4'11"4 =5<u>X</u>6 8 2 3X4 E ₹3X4 ≢4X5 =3X4 5X6 C D **≥5**X6 ≅3X4 Q ≡3X4 S ≡3X4 R ≡6X8 UΥ M ∥2X4 =2.5X6(A1) =2.5X6(A1) 4X5 112X4

28'4"8

4'11"9

26'0"4

4'11"9

VIEW Ver: 21.02.00.1005.17

30'11"13

4'4"11

35'4"8

6'4"

21'0"11

Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	DefI/CSI Criteria	•
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA	PP Deflection in loc L/defl L/# VERT(LL): 0.064 R 999 240 VERT(CL): 0.132 R 999 180 HORZ(LL): 0.017 P HORZ(TL): 0.035 P	LI W U N
NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 3.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 4.67 ft Loc. from endwall: not in 13.00 ft GCpi: 0.18	Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s):	Creep Factor: 2.0 Max TC CSI: 0.697 Max BC CSI: 0.506 Max Web CSI: 0.685	K W U N K B

WAVE

6'4"

14'8"11

▲ Maximum Reactions (lbs)									
	G	ravity		No	on-Gra	vity			
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL			
w	346	/-	/-	/150	/68	/182			
U	1527	/-	/-	/886	/-	/-			
N	1717	/-	/-	/909	/-	/-			
Κ	502	/-	/-	/245	/57	/-			
Wir	nd read	tions ba	sed on N	/WFRS					
w	Brg V	/id = 3.5	Min F	Req = 1.5	(Trus	s)			
U	Brg V	/id = 3.5	Min F	Req = 1.8	(Trus	s)			
N	Brg V	/id = 3.5	Min F	Req = 2.0	(Trus	s)			
Κ	Brg V	/id = 3.5	Min F	Req = 1.5	(Trus	s)			
Bearings W, U, N, & K are a rigid surface.									
Mei	mbers	not liste	d have fo	orces less	than	375#			

6'2"4

11'1"12

5'1"4

40'5"12

Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

C-D	173 - 1265	G-H	222	- 1491
D-E	203 - 1618	H-I	212	- 1461
E-F	219 - 1167	J - K	166	- 702
F-G	224 - 1131			

Wind

Lumber

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

Wind loading based on both gable and hip roof types.

Wind Duration: 1.60

Additional Notes

Top chord: 2x4 SP #2; Bot chord: 2x4 SP #2; Webs: 2x4 SP #3;

WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.

Maximum Bot Chord Forces Per Ply (IDS)									
Chords	Tens.Comp.		Chords	Tens. (Comp.				
T - S	1391	- 121	Q-P	1438	- 124				
S - R	1259	- 55	N - M	640	- 113				
R-Q	1164	- 36	M - K	650	- 111				

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.		
U-C	190 - 1431	H - P	94 - 564		
C - T	1681 - 158	P-I	1708 - 157		
T - D	116 - 747	I-O	209 - 1363		
E-R	129 - 515	O - N	202 - 1430		
F-R	828 - 153	N - J	169 - 870		
R-G	131 - 481				



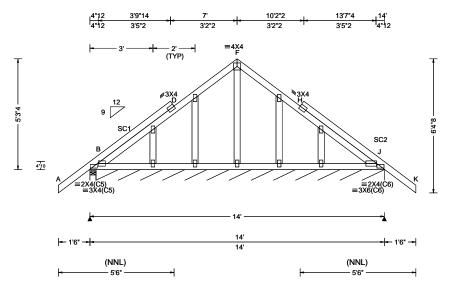
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SEQN: 57562 GABL Ply: 1 Job Number: 22-7038 Cust: R 215 JRef: 1Xe92150011 T134 Qty: 1 DrwNo: 088.22.1534.20163 FROM: Culverhouse Truss Label: B01 KD / WHK 03/29/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.002 H 999 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.005 H 999 180
BCDL: 10.00	Risk Category: II EXP: B Kzt: NA	Snow Duration: NA	HORZ(LL): 0.002 H
Des Ld: 40.00	Mean Height: 15.00 ft		HORZ(TL): 0.003 D
NCBCLL: 10.00	TCDL: 4.2 psf	Building Code:	Creep Factor: 2.0
Soffit: 2.00	BCDL: 3.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.296
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI: 0.062
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.055
	Loc. from endwall: Any	FT/RT:20(0)/10(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17

▲ Maximum Reactions (lbs), or *=PLF Gravity Non-Gravity Loc R+ /Rh /Rw /U /RL В 296 /166 /140 /45 81 Wind reactions based on MWFRS Brg Wid = 3.5 Min Req = 1.5 (Truss) В Brg Wid = 164 Min Req = -Bearings B & B are a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SP #2; Bot chord: 2x4 SP #2; Webs: 2x4 SP #3; Stack Chord: SC1 2x4 SP #2;

Stack Chord: SC2 2x4 SP #2;

Plating Notes

All plates are 2X4 except as noted.

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

Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

See DWGS A14015ENC160118 & GBLLETIN0118 for gable wind bracing and other requirements.

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



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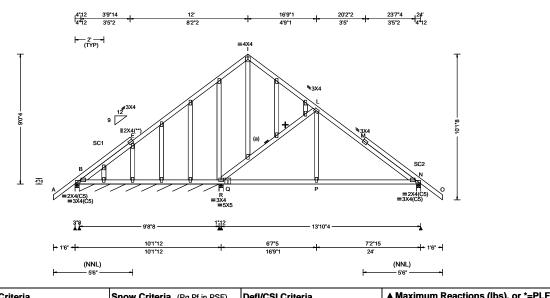
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Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A 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.

6750 Forum Drive Suite 305 Orlando FL, 32821

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

SEQN: 84900 GABL Ply: 1 Job Number: 22-7038 Cust: R 215 JRef: 1Xe92150011 T120 FROM: DrwNo: 088.22.1534.18210 Qty: 1 Culverhouse Truss Label: B02 KD / WHK 03/29/2022



Loading Cri	teria (psf)	Wind Criteria	Snow Crit	eria (Pg	Pf in PSF)	Defl/CSI Cr	iteria			
TCLL: 20	0.00	Wind Std: ASCE 7-16	Pg: NA	Ct: NA	CAT: NA	PP Deflection	on in	loc L/	defl	L/#
TCDL: 10			Pf: NA		Ce: NA	VERT(LL):	0.10	5 M	999	240
BCLL: 0.	.00		Lu: NA	Cs: NA		VERT(CL):	0.220	ОМ	740	180
BCDL: 10		Risk Category: II	Snow Dura	ation: NA		HORZ(LL):	-0.06	5 M	-	-
Des Ld: 40) //	EXP: B Kzt: NA				HORZ(TL):	0.136	6 M	-	-
NCBCLL: 10	` ^^	Mean Height: 15.00 ft TCDL: 4.2 psf	Building C	ode:		Creep Facto	or: 2.0			
Soffit: 2.	~~	BCDL: 4.2 psi	FBC 7th E	d. 2020 F	Res.	Max TC CS	l: 0	.624		
Load Duratio		MWFRS Parallel Dist: 0 to h/2	TPI Std: 2	2014		Max BC CS	I: 0	.442		
Spacing: 24.	.0 "	C&C Dist a: 3.00 ft	Rep Fac: \	⁄es		Max Web C	SI: 0	.319		
-		Loc. from endwall: Any	FT/RT:20(0)/10(0)						
		GCpi: 0.18	Plate Type	e(s):						
		Wind Duration: 1.60	WAVE			VIEW Ver: 2	21.02.	01.12 ⁴	16.15	j

Lumber

Top chord: 2x4 SP #2; Bot chord: 2x4 SP #2; Webs: 2x4 SP #3; Stack Chord: SC1 2x4 SP #2; Stack Chord: SC2 2x4 SP #2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

All plates are 2X4 except as noted.

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

Gable end supports 8" max rake overhang. Top chord must not be cut or notched.

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

Wind loading based on both gable and hip roof types.

+ Member to be laterally braced for horizontal wind loads. bracing system to be desiged and furnished by others.

Additional Notes

See DWGS A14015ENC160118 & GBLLETIN0118 for gable wind bracing and other requirements.

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

A Maximum Reactions (ibs), or "=PLF								
	Gravity Non-Gravity							
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL		
В	380	/-	/-	/184	/-	/215		
В*	55	/-	/-	/38	/14	/-		
R	584	/-	/-	/368	/75	/-		
Ν	764	/-	/-	/462	/30	/-		
Wii	nd rea	actions b	ased on N	MWFRS				
В	Brg	Wid = 3	5 Min F	Req = 1.5	(Trus	s)		
В	Brg	Wid = 1	16 Min F	Req = -				
R	Brg	Wid = 3	5 Min F	Req = 1.5	(Trus	s)		
Ν	Brg	Wid = 3	5 Min F	Req = 1.5	(Trus	s)		
Bea	arings	B, B, R	, & N are a	a rigid su	ırface.			
Members not listed have forces less than 375#								
Maximum Top Chord Forces Per Ply (lbs)								
Ch	ords	Tens.Co	omp. (Chords	Tens.	Comp.		
_								

Maximum Bot Chord Forces Per Plv (lbs)

65 - 614

Chords	Tens.Comp.		Chords	Tens. Comp.		
R-Q	517	0	P-N	515	0	
Q - P	517	0				

M - N

123

- 780

Maximum Web Forces Per Ply (lbs)

vvebs	rens.comp.			
R - I	196	- 558		

L-M

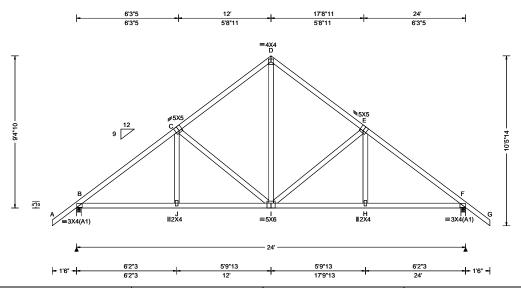


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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	DefI/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.037 I 999 240	Loc R+ /R- /Rh /Rw /U /RL
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.077 I 999 180	B 1125 /- /- /660 /101 /219
10.00 IU.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.018 F	F 1125 /- /- /660 /101 /-
Dec 1 d: 40 00	EXP: B Kzt: NA		HORZ(TL): 0.037 F	Wind reactions based on MWFRS
NCBCLL: 10.00	Mean Height: 15.00 ft	Building Code:	Creep Factor: 2.0	B Brg Wid = 3.5 Min Req = 1.5 (Truss)
Soffit: 2.00	TCDL: 4.2 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.363	F Brg Wid = 3.5 Min Req = 1.5 (Truss)
	BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI: 0.389	Bearings B & F are a rigid surface.
	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.438	Members not listed have forces less than 375#
opacing. 24.0	Loc. from endwall: Anv	FT/RT:20(0)/10(0)		Maximum Top Chord Forces Per Ply (lbs)
	GCpi: 0.18	Plate Type(s):		Chords Tens.Comp. Chords Tens. Comp.
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17	B - C 239 - 1356 D - E 261 - 955 C - D 261 - 955 E - F 239 - 1356

Lumber

Top chord: 2x4 SP #2; Bot chord: 2x4 SP #2; Webs: 2x4 SP #3;

Wind

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

Wind loading based on both gable and hip roof types.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.		Chords	Tens. Comp.		
B-J	992	-67	I-H	991	-72	
J - I	991	- 67	H - F	992	- 71	

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.		Webs	Tens. Comp.		
C - I	166	- 412	I-E	165	- 412	
D-I	642	- 167				



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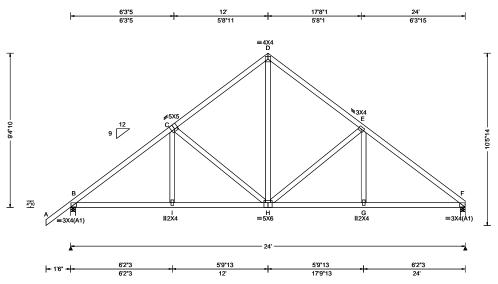
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For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

SEQN: 57573 COMN Ply: 1 Job Number: 22-7038 Cust: R 215 JRef: 1Xe92150011 T106 FROM: DrwNo: 088.22.1533.28137 Qty: 2 Culverhouse Truss Label: B04 KD / WHK 03/29/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.036 H 999 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.075 H 999 180
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.018 F
Des Ld: 40.00	EXP: B Kzt: NA		HORZ(TL): 0.038 F
NCBCLL: 10.00	Mean Height: 15.00 ft TCDL: 4.2 psf	Building Code:	Creep Factor: 2.0
Soffit: 2.00	BCDL: 3.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.405
Load Duration: 1.25	MWFRS Parallel Dist: h to 2h	TPI Std: 2014	Max BC CSI: 0.401
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.461
' "	Loc. from endwall: not in 9.00 ft	FT/RT:20(0)/10(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17
	•	•	•

▲ Maximum Reactions (lbs)						
	G	ravity		No	on-Grav	/ity
Loc	R+	/ R-	/ Rh	/Rw	/ U	/ RL
В	1129	/-	/-	/661	/-	/204
F	1016	/-	/-	/583	/-	/-
Win	d read	tions bas	sed on M	WFRS		
В	Brg V	/id = 3.5	Min R	eq = 1.5	(Truss	s)
F	Brg V	/id = 3.5	Min R	eq = 1.5	(Truss	s)
Bea	rings l	3 & Fare	a rigid s	urface.	•	•
Mer	nbers	not listed	have for	rces less	than 3	375#
Max	imum	Top Ch	ord Ford	es Per	Ply (lb	s)
Cho	rds T	ens.Con	np. C	hords	Tens.	Ćomp.
В-(С	151 - 13	362 D	- E	180	- 963
C - I	Ď	179 -9	961 E	- F	156	- 1375

Lumber

Top chord: 2x4 SP #2; Bot chord: 2x4 SP #2; Webs: 2x4 SP #3;

Wind

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

Wind loading based on both gable and hip roof types.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.		Chords	Tens. C	comp.
B - I	997	- 49	H-G	1012	- 55
I - H	996	- 50	G-F	1013	- 55

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.		Webs	Tens. (Comp.
C-H	118	- 413	H - E	125	- 433
D - H	654	_ 117			



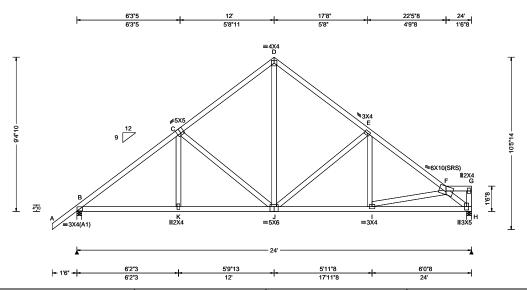
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SEQN: 57579 SPEC Ply: 1 Job Number: 22-7038 Cust: R 215 JRef: 1Xe92150011 T144 FROM: DrwNo: 088.22.1533.26753 Qty: 1 Culverhouse Truss Label: B06 KD / WHK 03/29/2022



Loading Criteria (psf) Wi	/ind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
	/ind Std: ASCE 7-16	Pa: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 10.00 Sp	peed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.038 J 999 240	Loc R+ /R- /Rh /Rw /U /RL
BCLL: 0.00 En	nclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.080 J 999 180	B 1135 /- /- /664 /- /194
	isk Category: II	Snow Duration: NA	HORZ(LL): 0.019 H	H 1010 /- /- /557 /- /-
Dec 1 4: 10 00 1 =	XP: B Kzt: NA		HORZ(TL): 0.040 H	Wind reactions based on MWFRS
NCBCLL 40 00	lean Height: 15.00 ft	Building Code:	Creep Factor: 2.0	B Brg Wid = 3.5 Min Req = 1.5 (Truss)
0.00	CDL: 4.2 psf CDL: 3.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.362	H Brg Wid = 3.5 Min Req = 1.5 (Truss)
Land Table	IWFRS Parallel Dist: h to 2h	TPI Std: 2014	Max BC CSI: 0.467	Bearings B & H are a rigid surface.
		Rep Fac: Yes	Max Web CSI: 0.468	Members not listed have forces less than 375#
' ' '		FT/RT:20(0)/10(0)		Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.
		Plate Type(s):		Chords Tens.Comp. Chords Tens. Comp.
Wi		WAVE	VIEW Ver: 21.02.00.1005.17	B-C 152 -1372 D-E 180 -970 C-D 181 -972 E-F 161 -1365
Lumbor				C-D 101 -312 L-1 101 -1303

Lumber

Top chord: 2x4 SP #2; Bot chord: 2x4 SP #2; Webs: 2x4 SP #3;

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.C	omp.	Chords	Tens. (Comp.
B-K	1005	- 79	J - I	1026	- 81
K-J	1004	- 79	I - H	1174	- 168

Maximum Web Forces Per Ply (lbs)

webs	rens.comp.	vvebs	rens. Comp.
C-J	116 - 411	J - E	119 - 441
D - J	659 - 115	F-H	218 - 1492



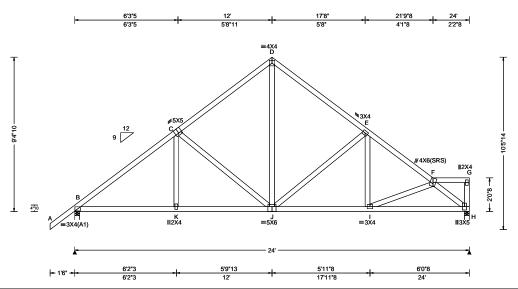
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SEQN: 57581 SPEC Ply: 1 Job Number: 22-7038 Cust: R 215 JRef: 1Xe92150011 T146 FROM: DrwNo: 088.22.1533.25147 Qty: 1 Culverhouse Truss Label: B07 KD / WHK 03/29/2022



Loading Criteria (psf) Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (Ibs)
TCLL: 20.00 Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 10.00 Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.038 J 999 240	Loc R+ /R- /Rh /Rw /U /RL
BCLL: 0.00 Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.081 J 999 180	B 1135 /- /- /665 /- /190
BCDL: 10.00 Risk Category: II	Snow Duration: NA	HORZ(LL): 0.019 H	H 1010 /- /- /547 /- /-
Des Ld: 40.00 EXP: B Kzt: NA		HORZ(TL): 0.040 H	Wind reactions based on MWFRS
NCBCLL: 10.00 Mean Height: 15.00 ft TCDL: 4.2 psf	Building Code:	Creep Factor: 2.0	B Brg Wid = 3.5 Min Req = 1.5 (Truss)
Soffit: 2.00 BCDL: 3.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.361	H Brg Wid = 3.5 Min Req = 1.5 (Truss)
Load Duration: 1.25 MWFRS Parallel Dist: h to 2h	TPI Std: 2014	Max BC CSI: 0.465	Bearings B & H are a rigid surface. Members not listed have forces less than 375#
Spacing: 24.0 " C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.463	Maximum Top Chord Forces Per Ply (lbs)
Loc. from endwall: not in 9.00	ft FT/RT:20(0)/10(0)		Chords Tens.Comp. Chords Tens. Comp.
GCpi: 0.18	Plate Type(s):		<u>'</u>
Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17	B-C 153-1372 D-E 180 -969 C-D 182 -972 E-F 167 -1345
Lumbor		·	C-D 182 -972 E-F 167 -1345

Lumber

Top chord: 2x4 SP #2; Bot chord: 2x4 SP #2; Webs: 2x4 SP #3;

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.C	omp.	Chords	Tens. (Comp.
B-K		- 92	J - I	1023	- 94
K-J		- 92	I - H	1147	- 167

Maximum Web Forces Per Ply (lbs)

webs	Tens.C	omp.	vvebs	rens.	comp.	
C-J	116	- 410	J - E	119	- 436	
D-J	655	- 115	F-H	213	- 1448	



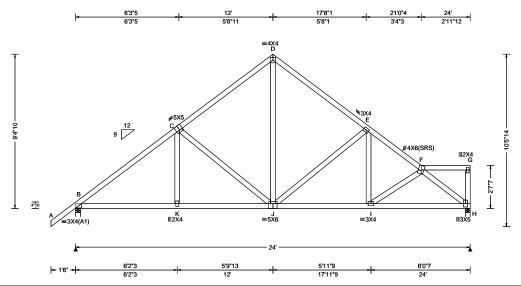
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SEQN: 57583 SPEC Ply: 1 Job Number: 22-7038 Cust: R 215 JRef: 1Xe92150011 T116 FROM: DrwNo: 088.22.1533.23257 Qty: 1 Culverhouse Truss Label: B08 KD / WHK 03/29/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 3.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0)	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.038 J 999 240 VERT(CL): 0.080 J 999 180 HORZ(LL): 0.019 H HORZ(TL): 0.040 H Creep Factor: 2.0 Max TC CSI: 0.362 Max BC CSI: 0.463 Max Web CSI: 0.459	Gravity Loc R+ /R- /Rh / B 1135 /- /- /6 H 1010 /- /- /5 Wind reactions based on MWF B Brg Wid = 3.5 Min Req: H Brg Wid = 3.5 Min Req: Bearings B & H are a rigid surfice. Members not listed have forces Maximum Top Chord Forces
	Loc. from endwall: not in 9.00 ft GCpi: 0.18	Plate Type(s):		Chords Tens.Comp. Chor
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17	B - C 155 - 1372 D - E C - D 184 - 972 E - F
Lumbor				O D 104 -312 L-1

avity Non-Gravity / R-/Rh /Rw /U /RL /666 /186 /537 /ions based on MWFRS Min Req = 1.5 (Truss) id = 3.5id = 3.5 Min Req = 1.5 (Truss) & H are a rigid surface. ot listed have forces less than 375# Top Chord Forces Per Ply (lbs) ens.Comp. Chords Tens. Comp. 155 - 1372 182 - 1323

Lumber

Top chord: 2x4 SP #2; Bot chord: 2x4 SP #2; Webs: 2x4 SP #3;

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 - K	1005 - 107	J - I	1020 - 111	
K - J	1003 - 108	I - H	1121 - 173	

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.	
C-J	115 -410	J-E	120 - 432	_
D - J	652 - 115	F-H	218 - 1408	



03/29/2022

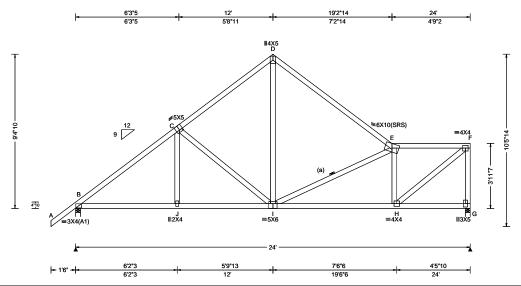
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SEQN: 57589 SPEC Ply: 1 Job Number: 22-7038 Cust: R 215 JRef: 1Xe92150011 T125 FROM: DrwNo: 088.22.1533.21137 Qty: 1 Culverhouse Truss Label: B09 KD / WHK 03/29/2022



l l		
Loading Criteria (psf) Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes TF/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.040 I 999 240 VERT(CL): 0.084 I 999 180 HORZ(LL): 0.017 C HORZ(TL): 0.035 C Creep Factor: 2.0 Max TC CSI: 0.564 Max BC CSI: 0.532 Max Web CSI: 0.523 VIEW Ver: 21.02.00.1005.17

▲ Maximum Reactions (lbs)									
	Gravity Non-Gravity								
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL			
В	1135	/-	/-	/668	/-	/183			
G	1010	/-	/-	/541	/22	/-			
Win	d read	tions bas	sed on M	IWFRS					
В	Brg W	/id = 3.5	Min R	eq = 1.5	(Truss	s)			
G	Brg V	/id = 3.5	Min R	Req = 1.5	(Truss	s)			
Bea	rings I	3 & G ar	e a rigid	surface.	•				
Men	nbers	not listed	have fo	rces less	than 3	375#			
Max	Maximum Top Chord Forces Per Ply (lbs)								
Cho	rds T	ens.Con	np. C	Chords	Tens.	Ćomp.			
В-0	С	160 - 13	368 E) - E	180	- 1010			
J С - I	D	189 - 9	976 E	- F	189	- 1067			

Top chord: 2x4 SP #2; Bot chord: 2x4 SP #2; Webs: 2x4 SP #3;

Bracing

(a) Continuous lateral restraint equally spaced on

Wind

Wind loads based on MWFRS with additional C&C

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-J	1000	- 144	I-H	1126	- 204	
J - I	999	- 145				

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.		Tens.Comp. Webs		Webs	Tens. Comp.		
C - I	111	- 391	E - H	196	- 742			
D-I	633	- 103	H - F	1373	- 241			
I-E	163	- 480	F-G	233	- 979			



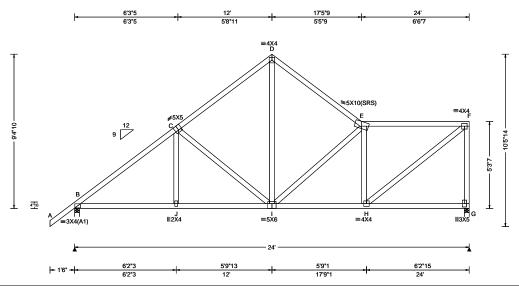
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SEQN: 57591 SPEC Ply: 1 Job Number: 22-7038 Cust: R 215 JRef: 1Xe92150011 T131 FROM: DrwNo: 088.22.1533.19587 Qty: 1 Culverhouse Truss Label: B10 KD / WHK 03/29/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)	
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Gravity Non-Gr	
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.041 I 999 240	Loc R+ /R- /Rh /Rw /U	/ RL
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.086 I 999 180	B 1135 /- /- /672 /-	/180
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.017 C	G 1010 /- /- /545 /48	/-
Des Ld: 40.00	EXP: B Kzt: NA		HORZ(TL): 0.036 C	Wind reactions based on MWFRS	
NCBCLL: 10.00	Mean Height: 15.00 ft TCDL: 4.2 psf	Building Code:	Creep Factor: 2.0	B Brg Wid = 3.5 Min Req = 1.5 (Tru	
Soffit: 2.00	BCDL: 3.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.730	G Brg Wid = 3.5 Min Req = 1.5 (Tru	ss)
Load Duration: 1.25	MWFRS Parallel Dist: h to 2h	TPI Std: 2014	Max BC CSI: 0.455	Bearings B & G are a rigid surface.	075"
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.477	Members not listed have forces less than	
	Loc. from endwall: not in 9.00 ft	FT/RT:20(0)/10(0)		Maximum Top Chord Forces Per Ply (I Chords Tens.Comp. Chords Tens	s. Comp.
	GCpi: 0.18	Plate Type(s):		Chords rens.comp. Chords rens	s. Comp.
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17	B-C 170 -1373 D-E 20	
Lumber	•	•	•	^J C - D 199 - 971 E - F 20	7 - 976

Lumber

Top chord: 2x4 SP #2; Bot chord: 2x4 SP #2; Webs: 2x4 SP #3;

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-J	1006 - 186	I-H	1014 - 219		
J - I	1005 - 186				

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.		Webs	Tens. (Comp.
C - I	118	- 416	E - H	208	- 648
D-I	678	- 155	H - F	1249	- 264
I - E	167	- 447	F-G	285	- 958



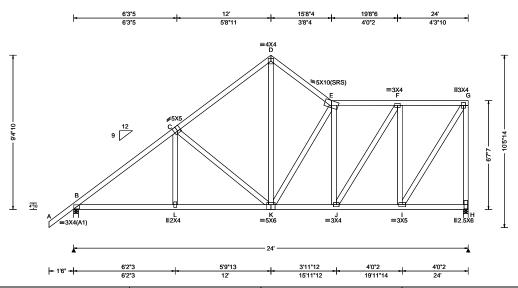
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SEQN: 57594 SPEC Ply: 1 Job Number: 22-7038 Cust: R 215 JRef: 1Xe92150011 T107 FROM: DrwNo: 088.22.1533.18093 Qty: 1 Culverhouse Truss Label: B11 KD / WHK 03/29/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Τ
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.040 K 999 240	
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.084 K 999 180	
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.017 C	
Des Ld: 40.00	EXP: B Kzt: NA		HORZ(TL): 0.035 C	
NCBCLL: 10.00	Mean Height: 15.00 ft TCDL: 4.2 psf	Building Code:	Creep Factor: 2.0	
Soffit: 2.00	BCDL: 3.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.373	
Load Duration: 1.25	MWFRS Parallel Dist: > 2h	TPI Std: 2014	Max BC CSI: 0.401	
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.762	
-	Loc. from endwall: not in 9.00 ft	FT/RT:20(0)/10(0)		
	GCpi: 0.18	Plate Type(s):		1
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17	

Lumber

Top chord: 2x4 SP #2; Bot chord: 2x4 SP #2; Webs: 2x4 SP #3;

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.

L/defl	I /#		G	ravity	-	N
999	240	Loc	R+	/ R-	/ Rh	/ Rw
999	180	В	1135	/-	/-	/677
-	-	Н	1010	/-	/- pased on	/547
-	_	Win	d read	tions b	pased on	MWFRS
		В	Brg V	Vid = 3	3.5 Min	Rea = 1.

L-K

Min Reg = 1.5 (Truss) id = 3.5Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings B & H are a rigid surface. Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. 181 - 1374

Non-Gravity

158

585

- 549

- 171

/RL

/177

/Rw /U

C - D 212 - 970 D-E 221 - 906

1006 - 229

▲ Maximum Reactions (lbs)

Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Tens. Comp. Chords B - L 1007 - 228 K - J 871 - 214 J - I

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.		lebs Tens.Comp. Web		Webs	s Tens. Comp.		
C-K	116	- 421	J - F	530	-77			
D-K	697	- 173	F-I	278	- 775			
K - E	156	- 377	I-G	1026	- 295			
E-J	88	- 389	G-H	322	- 977			



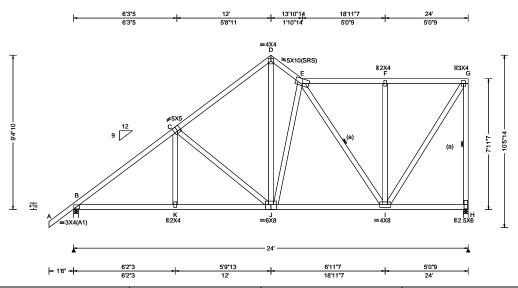
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SEQN: 57596 SPEC Ply: 1 Job Number: 22-7038 Cust: R 215 JRef: 1Xe92150011 T114 FROM: Qty: 1 DrwNo: 088.22.1533.16597 Culverhouse Truss Label: B12 KD / WHK 03/29/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	DefI/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.037 E 999 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.078 E 999 180
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.015 C
Des Ld: 40.00	EXP: B Kzt: NA		HORZ(TL): 0.033 C
NCBCLL: 10.00	Mean Height: 15.00 ft TCDL: 4.2 psf	Building Code:	Creep Factor: 2.0
Soffit: 2.00	BCDL: 3.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.449
Load Duration: 1.25	MWFRS Parallel Dist: > 2h	TPI Std: 2014	Max BC CSI: 0.430
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.519
-	Loc. from endwall: not in 9.00 ft	FT/RT:20(0)/10(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17

Lumber

Top chord: 2x4 SP #2; Bot chord: 2x4 SP #2; Webs: 2x4 SP #3;

Bracing

(a) Continuous lateral restraint equally spaced on

Wind

Wind loads based on MWFRS with additional C&C

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

Chords Tens.Comp.

Loc R+

1135 /-

1010

В

▲ Maximum Reactions (lbs) Gravity

Wind reactions based on MWFRS Brg Wid = 3.5

Bearings B & H are a rigid surface.

/Rh

/R

193 - 1372 C-D 224 - 973 183 D-E 247 - 862

Brg Wid = 3.5 Min Req = 1.5 (Truss)

Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs)

Non-Gravity

/RL

/174

/-

Tens. Comp.

/Rw /U

/683

/548

Min Reg = 1.5 (Truss)

Chords

Maximum Bot Chord Forces Per Ply (lbs)

Choras	rens.comp.	Choras	rens. c	Jomp.
	1006 - 270 1005 - 271	J - I	768	- 226

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. (Comp.
C-J D-J E-I	118 - 417 739 - 211 77 - 384	F-I I-G G-H	257 1013 361	- 392 - 334 - 973



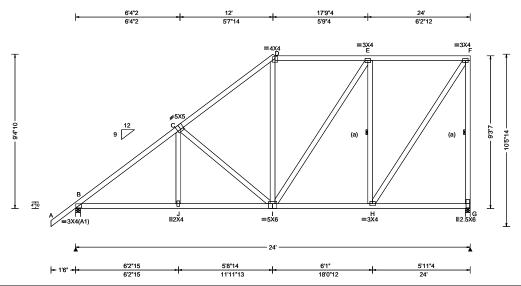
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SEQN: 57599 SPEC Ply: 1 Job Number: 22-7038 Cust: R 215 JRef: 1Xe92150011 T91 FROM: DrwNo: 088.22.1533.14977 Qty: 1 Culverhouse Truss Label: B13 KD / WHK 03/29/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Gravity Non-Gravity Loc R+ /R- /Rh /Rw /U /RL
TCDL: 10.00 BCLL: 0.00	Speed: 130 mph Enclosure: Closed	Pf: NA Ce: NA Lu: NA Cs: NA	VERT(LL): 0.033 I 999 240 VERT(CL): 0.070 I 999 180	B 1135 /- /- /691 /9 /172
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.014 C	G 1010 /- /- /549 /118 /-
Des Ld: 40.00	EXP: B Kzt: NA Mean Height: 15.00 ft	- · · · · · · · · · · · · · · · · · · ·	HORZ(TL): 0.030 C	Wind reactions based on MWFRS B Brg Wid = 3.5 Min Reg = 1.5 (Truss)
NCBCLL: 10.00 Soffit: 2.00	TCDL: 4.2 psf	Building Code: FBC 7th Ed. 2020 Res.	Creep Factor: 2.0 Max TC CSI: 0.613	G Brg Wid = 3.5 Min Req = 1.5 (Truss)
Load Duration: 1.25	BCDL: 3.0 psf MWFRS Parallel Dist: h to 2h	TPI Std: 2014	Max BC CSI: 0.391	Bearings B & G are a rigid surface. Members not listed have forces less than 375#
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.785	Maximum Top Chord Forces Per Ply (lbs)
	Loc. from endwall: not in 9.00 ft GCpi: 0.18	FT/RT:20(0)/10(0) Plate Type(s):		Chords Tens.Comp. Chords Tens.Comp.
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17	B-C 207 -1371 D-E 237 -687 C-D 244 -971 E-F 196 -528
Lumber				0-D 277 -311 L-1 130 -320

Lumber

Top chord: 2x4 SP #2; Bot chord: 2x4 SP #2; Webs: 2x4 SP #3;

Bracing

(a) Continuous lateral restraint equally spaced on

Wind

Wind loads based on MWFRS with additional C&C

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

- 528 Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B-J	1004 - 314	I-H	549 - 207
J - I	1003 - 315		

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens.	Comp.
C-I	112 -413	H-F	958	- 356
F-H	339 - 665	F-G	399	- 963



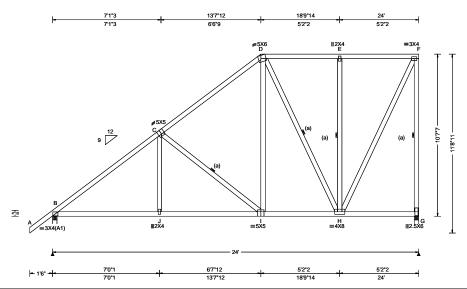
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SEQN: 57602 HIPM Ply: 1 Job Number: 22-7038 Cust: R 215 JRef: 1Xe92150011 T122 FROM: DrwNo: 088.22.1533.13460 Qty: 1 Culverhouse Truss Label: B14 KD / WHK 03/29/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	DefI/CSI Criteria	4
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffii: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 3.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. 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): 0.033 I 999 240 VERT(CL): 0.070 I 999 180 HORZ(LL): 0.015 C HORZ(TL): 0.032 C Creep Factor: 2.0 Max TC CSI: 0.522 Max BC CSI: 0.491 Max Web CSI: 0.861 VIEW Ver: 21.02.00.1005.17	
Lumbor				•

▲ Maximum Reactions (lbs)							
	Gravity Non-Gravity						
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL	
B 1	135	/-	/-	/697	/-	/193	
G 10	010	/-	/-	/567	/120	/-	
Wind	reac	tions ba	sed on	MWFRS			
в в	rg W	/id = 3.5	5 Min	Req = 1.5	(Truss	s)	
G B	rg W	/id = 3.5	5 Min	Req = 1.5	(Truss	s)	
Bearin	ngs E	3 & G ai	e a rigi	d surface.	•	•	
Memb	ers	not liste	d have	forces less	s than 3	375#	
Maxir	Maximum Top Chord Forces Per Ply (lbs)						
Chord	ls T	ens Co	mp.	Chords	Tens.	Ćomp.	
B-C		160 - 1	354	D-E	154	- 417	
C-D			880	Ē-F	153	- 417	

Lumbe

Top chord: 2x4 SP #2; Bot chord: 2x4 SP #2; Webs: 2x4 SP #3;

Bracing

(a) Continuous lateral restraint equally spaced on

Wind

Wind loads based on MWFRS with additional C&C

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.	• • · · · · · · · ·
B - J 982 - 300 I - H 593 J - I 980 - 300	- 199

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.		Webs	Tens. (Comp.
C-I	134	- 499	H-F	930	- 342
D - I	471	- 50	F-G	392	- 967
РШ	100	202			



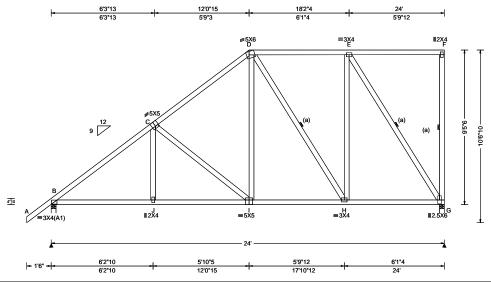
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SEQN: 57604 COMN Ply: 1 Job Number: 22-7038 Cust: R 215 JRef: 1Xe92150011 T79 FROM: DrwNo: 088.22.1533.11893 Qty: 1 Culverhouse Truss Label: B15 KD / WHK 03/29/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	DefI/CSI Criteria
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 3.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. 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): 0.031 I 999 240 VERT(CL): 0.065 I 999 180 HORZ(LL): 0.015 G HORZ(TL): 0.031 G Creep Factor: 2.0 Max TC CSI: 0.598 Max BC CSI: 0.459 Max Web CSI: 0.576 VIEW Ver: 21.02.00.1005.17

▲ M	▲ Maximum Reactions (lbs)						
	Gravity Non-Gravity						
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL	
В	1135	/-	/-	/691	/10	/172	
G	1010	/-	/-	/549	/118	/-	
Win	d read	tions ba	sed on	MWFRS			
В	Brg V	Vid = 3.5	Min	Req = 1.5	5 (Truss	s)	
G	Brg V	Vid = 3.5	Min	Req = 1.5	5 (Truss	s)	
Bea	rings l	B & G ar	e a rigi	d surface.	•	•	
Mer	nbers	not liste	d have	forces les	s than 3	375#	
Max	Maximum Top Chord Forces Per Ply (lbs)						
				Chords		•	
B - (-	208 - 1 244 -	372 966	D-E	197	- 529	

Lumbe

Top chord: 2x4 SP #2; Bot chord: 2x4 SP #2; Webs: 2x4 SP #3;

Bracing

(a) Continuous lateral restraint equally spaced on

Wind

Wind loads based on MWFRS with additional C&C

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-J	1005 - 315	I-H	679 - 235
J - I	1003 - 316	H-G	517 - 196

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.		
C-I	112 - 420) H-E	450	- 19	
D - I	427 - 38	B E-G	366	- 964	



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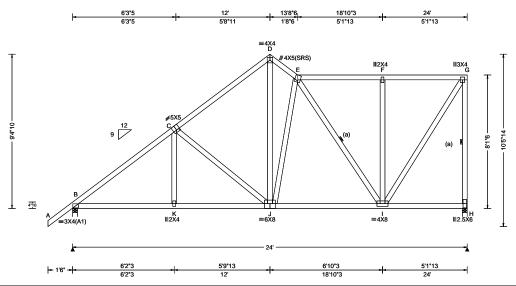
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SEQN: 57606 COMN Ply: 1 Job Number: 22-7038 Cust: R 215 JRef: 1Xe92150011 T130 FROM: DrwNo: 088.22.1533.10060 Qty: 1 Culverhouse Truss Label: B16 KD / WHK 03/29/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	DefI/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.037 E 999 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.078 E 999 180
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.015 C
Des Ld: 40.00	EXP: B Kzt: NA		HORZ(TL): 0.032 C
NCBCLL: 10.00	Mean Height: 15.00 ft TCDL: 4.2 psf	Building Code:	Creep Factor: 2.0
Soffit: 2.00	BCDL: 4.2 psi	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.470
Load Duration: 1.25	MWFRS Parallel Dist: h to 2h	TPI Std: 2014	Max BC CSI: 0.422
1	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.548
'	Loc. from endwall: not in 9.00 ft	FT/RT:20(0)/10(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17

Lumber

Top chord: 2x4 SP #2; Bot chord: 2x4 SP #2; Webs: 2x4 SP #3;

Bracing

(a) Continuous lateral restraint equally spaced on

Wind

Wind loads based on MWFRS with additional C&C

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

C-D 226 - 973 D-E 251 - 854

Chords Tens.Comp.

▲ Maximum Reactions (lbs) Gravity

Wind reactions based on MWFRS Brg Wid = 3.5

Bearings B & H are a rigid surface.

194 - 1372

/Rh

Brg Wid = 3.5 Min Req = 1.5 (Truss)

Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs)

/R

Loc R+

1135 /-

1010

В

Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

B - K 1006 - 275 J - I 758 - 227 1005 - 276 K-J

Non-Gravity

/RL

/174

/-

Tens. Comp.

- 555

186

/Rw /U

/684

/548

Min Reg = 1.5 (Truss)

Chords

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp. Webs		Tens. Comp.		
C - J	117 -416	I-G	1008	- 337	
D-J	740 - 216	G-H	365	- 971	
F-I	262 - 400				



03/29/2022

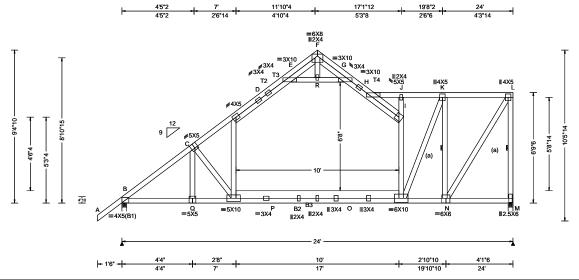
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Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A 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

SEQN: 84907 COMN Ply: 1 Job Number: 22-7038 Cust: R 215 JRef: 1Xe92150011 T133 FROM: DrwNo: 088.22.1533.08203 Qty: 1 Culverhouse Truss Label: B17 KD / WHK 03/29/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.377 P 759 240	
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.824 P 347 180	ı
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.262 D	
Des Ld: 40.00	EXP: B Kzt: NA		HORZ(TL): 0.591 D	
NCBCLL: 10.00	Mean Height: 15.00 ft TCDL: 4.2 psf	Building Code:	Creep Factor: 2.0	
Soffit: 2.00	BCDL: 3.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.708	
Load Duration: 1.25	MWFRS Parallel Dist: h to 2h	TPI Std: 2014	Max BC CSI: 0.730	ı
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.663	ı
	Loc. from endwall: not in 9.00 ft	FT/RT:20(0)/10(0)		I
	GCpi: 0.18	Plate Type(s):		1
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.01.1216.15	
	, I	L	,I	_

	-	h	

Top chord: 2x4 SP #2; T2,T3,T4 2x4 SP M-31; Bot chord: 2x4 SP #2; B2 2x4 SP M-31; B3 2x6 SP 2400f-2.0E; Webs: 2x4 SP #3;

Bracing

(a) Continuous lateral restraint equally spaced on member

Loading

Attic room loading from 7-0-0 to 17-0-0: Live Load: 40 PSF. Dead Load: 10 PSF Ceiling: 10 PSF, Kneewalls: 10 PSF

Collar-tie braced with continuous lateral bracing at 24" oc. or rigid ceiling.

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 Cri	teria (Pg	,Pf in PSF)	Defl/CSI Cri	iteria			▲ N	laximu	ım Read	ctions (I	bs)		
Pa: NA	Ct: NA	CAT: NA	PP Deflectio	n in loc	I /defl	I /#		G	ravity		N	on-Gra	vity
Pf: NA	0	Ce: NA	VERT(LL):			240	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
Lu: NA	Cs: NA		VERT(CL):			180	В	1769	/-	/-	/678	/-	/177
Snow Dur	ration: NA		HORZ(LL):	0.262 D	-	-	М	1646	<i>/</i> -	/-	/547	/74	/-
			HORZ(TL):	0.591 D	_	-	Wir	nd read	tions ba	sed on I	MWFRS		
Building C	Code:		Creep Facto	r: 2.0			В				Req = 2.		
FBC 7th E	Ed. 2020 F	Res.	Max TC CSI	: 0.708	3		М	Brg V	Vid = 3.5	Min F	Req = 1.9	9 (Trus	s)
TPI Std:			Max BC CSI)		Bea	arings I	B & M a	re a rigid	l surface.		
							Mei	mbers	not liste	d have fo	orces les	s than	375#
Rep Fac:			Max Web CS	51: 0.003	•		Max	ximum	Top C	hord Fo	rces Per	Plv (lk	os)
FT/RT:20	(0)/10(0)								ens.Co		Chords		Com
Plate Type	e(s):						_			<u> </u>			
ı								_	427 2	E40	_ ^	400	400

Maximum Bot Chord Forces Per Ply (lbs)

Choras	rens.comp.		noras rens.comp. Chor		Choras	oras Tens. Com		
B-Q Q-P		- 245 - 245	O - N N - O	991 2097	- 167 - 711			

Maximum Web Forces Per Ply (lbs)

rens.comp.	vvebs	rens. Comp.
105 - 635	0 - K	1516 -85
973 - 21	K - N	271 - 1612
295 - 2225	N - L	1740 - 292
295 - 2225	L - M	324 - 1596
	105 - 635 973 - 21 295 - 2225	105 - 635 O - K 973 - 21 K - N 295 - 2225 N - L



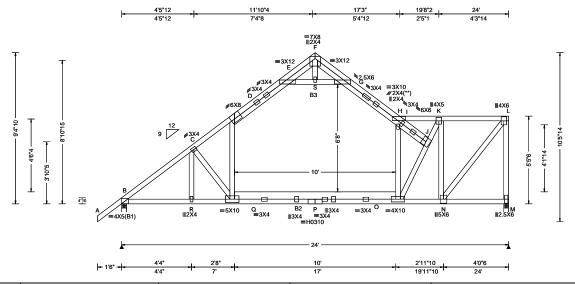
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SEQN: 84910 COMN Ply: 1 Job Number: 22-7038 Cust: R 215 JRef: 1Xe92150011 T135 FROM: DrwNo: 088.22.1533.04487 Qty: 1 Culverhouse Truss Label: B18 KD / WHK 03/29/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Gravity
	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.353 E 810 240	Loc R+ /R- /Rh /
DCLL. 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.721 Q 397 180	B 1759 /- /- /6
10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.222 D	M 1623 /- /- /5
Des Ld: 40.00	EXP: B Kzt: NA		HORZ(TL): 0.496 D	Wind reactions based on MWF
NCBCLL: 10.00	Mean Height: 15.00 ft TCDL: 4.2 psf	Building Code:	Creep Factor: 2.0	B Brg Wid = 3.5 Min Req =
0.00	BCDL: 3.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.632	M Brg Wid = 3.5 Min Req
l	MWFRS Parallel Dist: h to 2h	TPI Std: 2014	Max BC CSI: 0.562	Bearings B & M are a rigid surf
I	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.830	Members not listed have forces
'		FT/RT:20(0)/10(0)		Maximum Top Chord Forces Chords Tens.Comp. Chord
	GCpi: 0.18	Plate Type(s):		Chords rens.comp. Chord
	Wind Duration: 1.60	WAVE, HS	VIEW Ver: 21.02.01.1216.15	D-E 409 - 4001 E-F F-F 3178 - 292 F-G
	-	·	·	:F-F 31/0 -/9/ F-U

Top chord: 2x4 SP M-31; Bot chord: 2x4 SP M-31; B2 2x6 SP 2400f-2.0E; B3 2x4 SP #2;

Webs: 2x4 SP #3;

Plating Notes

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

Loading

Attic room loading from 7-0-0 to 17-0-0: Live Load: 40 PSF. Dead Load: 10 PSF Ceiling: 10 PSF, Kneewalls: 10 PSF

Collar-tie braced with continuous lateral bracing at 24" oc. or rigid ceiling.

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.

NA	PP Deflection	onin loc	L/defl	L/#	
4	VERT(LL):	0.353 E	810	240	Lo
	VERT(CL):	0.721 Q	397	180	В
	HORZ(LL):	0.222 D	-	-	М
	HORZ(TL):	0.496 D	-	-	Wi
	Creep Facto				В

0	Loc	R+	/ R-	/Rh	/ Rw	/ U	/ RL
0	B 1	759	/-	/-	/672	/-	/180
	M 1	623	/-	/-	/545	/49	/-
	Wind	reac	tions bas	sed on	MWFRS		
	ВЕ	Brg W	/id = 3.5	Min	Req = 1.	5 (Truss	s)
	М Е	3rg W	/id = 3.5	Min	Req = 1	5 (Truss	s)
	Beari	ngs E	3 & M are	e a rigi	d surface		
	Meml	oers	not listed	l have	forces les	s than 3	375#
	Maxi	mum	Top Ch	ord Fo	orces Pei	Ply (lb	s)
	Chord	ds T	ens.Con	٦p.	Chords	Tens.	Comp.
	D-E		409 - 40	001	E-F	267	- 2649
	E-F		3178 - 2	292	F-G	3058	- 225
	G-H		538 - 38	396	F-G	226	- 2506
	H - I		4400	198	H - K	199	- 1894
	п-1		4123 -4	190	11 - IX	199	- 100-
	1- J		4123 -4 1896 -19		I-H	3099	- 378

Non-Gravity

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.		Chords	Tens. (Comp.
B - R	1849	- 204	O - N	1225	- 173
R - O	1848	- 204			

Maximum Web Forces Per Ply (lbs)

192 - 2218

webs	Tens.Comp.	webs	Tens. Comp	١.
C-Q	98 - 533	O - J	894 -9	3
Q-D	1008 - 25	J - K	1511 -5	1
E-S	301 - 2468	K - N	223 - 151	5
F-S	384 - 44	N - L	1849 - 26	0
S - G	301 - 2468	L - M	282 - 157	5
O - I	380 - 78			



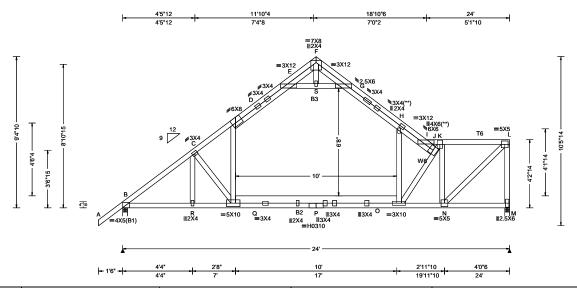
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SEQN: 84913 COMN Ply: 1 Job Number: 22-7038 Cust: R 215 JRef: 1Xe92150011 T110 FROM: DrwNo: 088.22.1533.02633 Qty: 1 Culverhouse Truss Label: B19 KD / WHK 03/29/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (Ibs	s)
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Gravity	Non-Gravity
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.364 E 785 240	Loc R+ /R- /Rh	/Rw /U /RL
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.716 Q 399 180	B 1796 /- /-	/669 /- /183
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.209 D	M 1689 /- /-	/542 /25 /-
Des Ld: 40.00	EXP: B Kzt: NA		HORZ(TL): 0.473 D	Wind reactions based on M\	WFRS
NCBCLL: 10.00	Mean Height: 15.00 ft	Building Code:	Creep Factor: 2.0	B Brg Wid = 3.5 Min Re	eq = 1.5 (Truss)
Soffit: 2.00	TCDL: 4.2 psf BCDL: 3.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.667	M Brg Wid = 3.5 Min Re	. , ,
1.77	MWFRS Parallel Dist: h to 2h	TPI Std: 2014	Max BC CSI: 0.548	Bearings B & M are a rigid s	
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.832	Members not listed have for	
Opacing. 2 1.0	Loc. from endwall: not in 9.00 ft	FT/RT:20(0)/10(0)		Maximum Top Chord Forc	
		Plate Type(s):		Chords Tens.Comp. Ch	nords Tens. Comp
	GCpi: 0.18	Flate Type(s).		D-E 387 - 4269 E	- F 253 - 281
	Wind Duration: 1.60	WAVE, HS	VIEW Ver: 21.02.01.1216.15		-r ∠ɔɔ -∠oı -G 3088 -23

ı	umbo	

Top chord: 2x4 SP M-31; T6 2x4 SP #2; Bot chord: 2x4 SP M-31; B2 2x6 SP 2400f-2.0E; B3 2x4 SP #2; Webs: 2x4 SP #3; W6 2x4 SP #2;

Plating Notes

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

Loading

Attic room loading from 7-0-0 to 17-0-0: Live Load: 40 PSF. Dead Load: 10 PSF Ceiling: 10 PSF, Kneewalls: 10 PSF

Collar-tie braced with continuous lateral bracing at 24" oc. or rigid ceiling.

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 Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. 387 - 4269 3356 3088 - 237 - 281 G - H 2824 F-G - 379 223 - 2501 420 - 5119 H - I 3093 - 231 H - I 137 - 2593 I - J 2703 - 146 B - C 156 - 2455 150 - 2439 C-D 183 - 2293 168 - 1567

Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

B - R 1891 - 168 O - N1682 - 182 R-Q 1891 - 169

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.		
C-Q	104 - 494	O - H	1039 - 64		
Q - D	1020 - 25	J - K	1777 0		
E-S	294 - 2572	K - N	183 - 1567		
S - F	399 - 43	N - L	2184 - 232		
S - G	294 - 2572	M - L	241 - 1637		



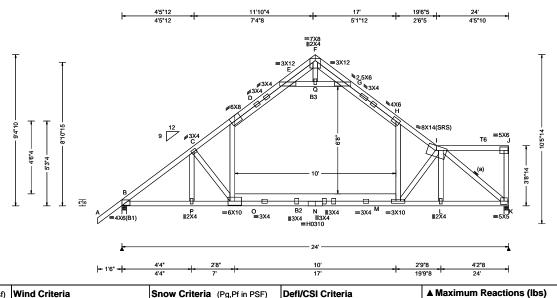
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SEQN: 84930 COMN Ply: 1 Job Number: 22-7038 Cust: R 215 JRef: 1Xe92150011 T118 FROM: DrwNo: 088.22.1533.00430 Qty: 1 Culverhouse Truss Label: B20 KD / WHK 03/29/2022



Loading C	criteria (psf)	Wind Criteria	Snow Cri	teria (Pg	Pf in PSF)	Defl/CSI Criter	ia		
TCLL:	20.00	Wind Std: ASCE 7-16	Pg: NA	Ct: NA	CAT: NA	PP Deflection is	n loc L	/defl	L/#
TCDL:	10.00	Speed: 130 mph	Pf: NA		Ce: NA	VERT(LL): 0.3	388 N	736	240
BCLL:	0.00	Enclosure: Closed	Lu: NA	Cs: NA		VERT(CL): 0.	764 G	374	180
BCDL:	10.00	Risk Category: II	Snow Dur	ation: NA		HORZ(LL): -0.	181 H	-	-
Des Ld:	40.00	EXP: B Kzt: NA				HORZ(TL): 0.4	129 H	-	-
NCBCLL:	10.00	Mean Height: 15.00 ft TCDL: 4.2 psf	Building C	ode:		Creep Factor: 2	2.0		
Soffit:	2.00	BCDL: 4.2 psi	FBC 7th E	d. 2020 F	Res.	Max TC CSI:	0.837		
Load Dura	tion: 1.25	MWFRS Parallel Dist: h to 2h	TPI Std:	2014		Max BC CSI:	0.554		
Spacing: 2		C&C Dist a: 3.00 ft	Rep Fac: `	Yes		Max Web CSI:	0.560		
-		Loc. from endwall: not in 9.00 ft	FT/RT:20((0)/10(0)					
		GCpi: 0.18	Plate Type	e(s):					
		Wind Duration: 1.60	WAVE, H	3		VIEW Ver: 21.0	2.01.12	16.15	j

Top chord: 2x4 SP M-31; T6 2x4 SP #2; Bot chord: 2x4 SP M-31; B2 2x6 SP 2400f-2.0E; B3 2x4 SP #2; Webs: 2x4 SP #3;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Attic room loading from 7-0-0 to 17-0-0: Live Load: 40 PSF. Dead Load: 10 PSF Ceiling: 10 PSF, Kneewalls: 10 PSF

Collar-tie braced with continuous lateral bracing at 24" oc. or rigid ceiling.

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.

Defl/CSI Criteria							
PP Deflection in loc L/defl L/# VERT(LL): 0.388 N 736 240	Loc						
VERT(CL): 0.764 G 374 180	B 1						
HORZ(LL): -0.181 H HORZ(TL): 0.429 H	K 1 Wind						
Creep Factor: 2.0 Max TC CSI: 0.837 Max BC CSI: 0.554 Max Web CSI: 0.560	B I K I Bear Mem Maxi						
VIEW Vor. 21 02 01 1216 15	Chor						

		Gı	ravity		N	on-Grav	/ity
,	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
)	B 1	797	/-	/-	/668	/-	/184
	K 10	691	/-	/-	/541	/17	/-
	Wind	react	tions ba	sed or	MWFRS		
	в в	rg W	id = 3.5	5 Mir	Req = 1.	5 (Truss	s)
	K B	rg W	id = 3.5	5 Mir	Req = 1.	5 (Truss	s)
	Bearin	ngs E	3 & K ar	e a rigi	id surface.		
	Memb	ers r	not liste	d have	forces les	s than 3	75#
	Maxir	num	Top C	hord F	orces Per	Ply (lbs	s)
	Chord	ls T	ens.Co	mp.	Chords	Tens.	Comp.
	D-E		458 - 5	097	E-F	293	- 3292
	E-F			344	F-G	3905	- 324
	G-H		477 - 2	196	F-G	269	- 3090
	B-C		154 - 2	440	H-I	203	- 2384
	C - D		187 - 2	344			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.	
B - P	1878 - 154	M - L	1996 - 193	
P - O	1879 - 155	L-K	2002 - 192	

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C-0	129 - 410	Q-G	324 - 2922
O - D	1071 - 29	M - I	150 - 638
E - Q	324 - 2922	H - M	1129 - 65
F-Q	443 - 47	I-K	238 - 2514



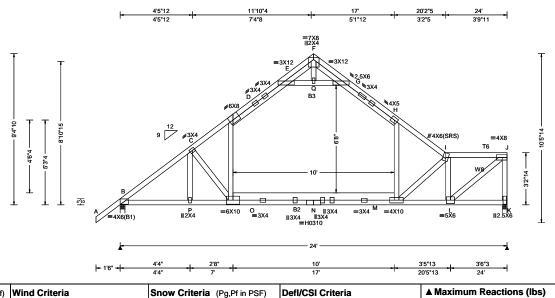
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SEQN: 84924 COMN Ply: 1 Job Number: 22-7038 Cust: R 215 JRef: 1Xe92150011 T128 FROM: DrwNo: 088.22.1532.58570 Qty: 1 Culverhouse Truss Label: B21 KD / WHK 03/29/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	l
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.401 N 714 240	l
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.803 G 356 180	l
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.194 H	l
Des Ld: 40.00	EXP: B Kzt: NA		HORZ(TL): 0.462 H	
NCBCLL: 10.00	Mean Height: 15.00 ft TCDL: 4.2 psf	Building Code:	Creep Factor: 2.0	
Soffit: 2.00	BCDL: 3.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.864	
Load Duration: 1.25	MWFRS Parallel Dist: h/2 to h	TPI Std: 2014	Max BC CSI: 0.562	
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.554	
	Loc. from endwall: not in 9.00 ft	FT/RT:20(0)/10(0)		
	GCpi: 0.18	Plate Type(s):		1
	Wind Duration: 1.60	WAVE, HS	VIEW Ver: 21.02.01.1216.15	

Lumber

Top chord: 2x4 SP M-31; T6 2x4 SP #2; Bot chord: 2x4 SP M-31; B2 2x6 SP 2400f-2.0E; B3 2x4 SP #2;

Webs: 2x4 SP #3; W8 2x4 SP #2;

Loading

Attic room loading from 7-0-0 to 17-0-0: Live Load: 40 PSF. Dead Load: 10 PSF Ceiling: 10 PSF, Kneewalls: 10 PSF

Purlins

Collar-tie braced with continuous lateral bracing at 24" oc. or rigid ceiling.

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.

Loc R+ В Wind reactions based on MWFRS

Brg Wid = 3.5 Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings B & K are a rigid surface. Members not listed have forces less than 375#

/Rh

Non-Gravity

/RL

/185

/-/98

/Rw /U

/667

/539

Min Reg = 1.5 (Truss)

Gravity

1797 /-

1691

Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

D-E	455 - 5188	E-F	291	- 3344
E-F	4146 - 344	F-G	4013	- 333
G - H	457 - 2153	F-G	277	- 3178
B - C	152 - 2438	H - I	182	- 2344
C - D	184 - 2350	l - J	170	- 1885

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.	
B - P	1876 - 140	M - L	2033 - 185	
P - O	1878 - 141			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C-0	136 - 404	M - I	127 - 556
O - D	1077 - 30	H - M	1007 - 31
E-Q	324 - 2961	I-L	152 - 1501
F-Q	447 - 46	L-J	2453 - 219
Q-G	324 - 2961	J-K	210 - 1653



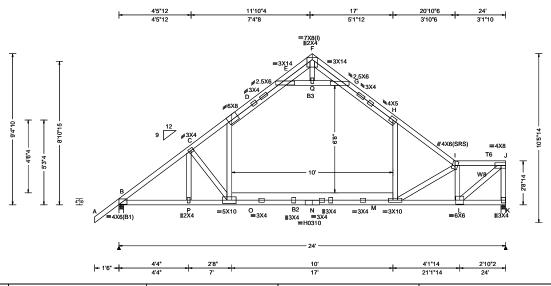
WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!

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SEQN: 84933 COMN Ply: 1 Job Number: 22-7038 Cust: R 215 JRef: 1Xe92150011 T126 FROM: DrwNo: 088.22.1532.56373 Qty: 1 Culverhouse Truss Label: B22 KD / WHK 03/29/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	L
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	١.
	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.423 N 676 240	[
DCLL. 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.839 G 341 180	ı
10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.203 H	ı
Doc I d: 10 00	EXP: B Kzt: NA		HORZ(TL): 0.481 H	١
NCBCLL: 10.00	Mean Height: 15.00 ft TCDL: 4.2 psf	Building Code:	Creep Factor: 2.0	
Soffit: 2.00	BCDL: 3.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.931	Ľ
	MWFRS Parallel Dist: h/2 to h	TPI Std: 2014	Max BC CSI: 0.574	Ľ
	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.598	Ľ
	Loc. from endwall: not in 9.00 ft	FT/RT:20(0)/10(0)		ľ
	GCpi: 0.18	Plate Type(s):		1
	Wind Duration: 1.60	WAVE, HS	VIEW Ver: 21.02.01.1216.15] [

Lumber

Top chord: 2x4 SP M-31; T6 2x4 SP #2; Bot chord: 2x4 SP M-31; B2 2x6 SP 2400f-2.0E; B3 2x4 SP #2;

Webs: 2x4 SP #3; W8 2x4 SP #2;

Plating Notes

(I) - plates so marked were sized using 0% Fabrication Tolerance, 0 degrees Rotational Tolerance, and/or zero Positioning Tolerance.

Loading

Attic room loading from 7-0-0 to 17-0-0: Live Load: 40 PSF. Dead Load: 10 PSF Ceiling: 10 PSF, Kneewalls: 10 PSF

Collar-tie braced with continuous lateral bracing at 24" oc. or rigid ceiling.

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.

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/ RL
/186
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375#
s)
s) Comp.
•
Ćomp.
Comp. - 3533
Comp. - 3533 - 348

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.C	Comp.	Chords	Tens.	Comp.
B - P P - O	2051 2053	-	M - L	2211	- 179

Maximum Web Forces Per Ply (lbs)

vvebs	i ens.Comp.	vvebs	rens. Comp.
C-0	143 - 434	M - I	119 - 508
O - D	1078 - 30	H - M	939 - 7
E-Q	327 - 3241	I-L	149 - 1670
F-Q	487 - 47	L-J	2647 - 210
Q - G	327 - 3241	J - K	191 - 1765



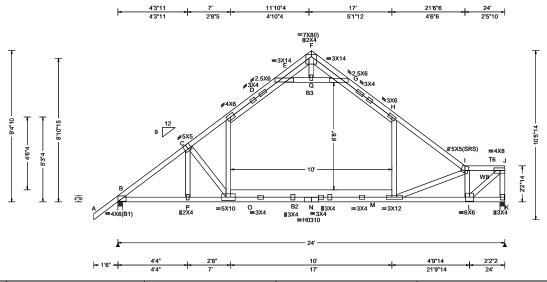
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SEQN: 84938 COMN Ply: 1 Job Number: 22-7038 Cust: R 215 JRef: 1Xe92150011 T129 FROM: DrwNo: 088.22.1532.54150 Qty: 1 Culverhouse Truss Label: B23 KD / WHK 03/29/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	DefI/CSI Criteria	T
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Criteria Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.435 N 658 240 VERT(CL): 0.872 G 328 180 HORZ(LL): -0.218 H HORZ(TL): 0.517 H Creep Factor: 2.0 Max TC CSI: 0.958 Max BC CSI: 0.574 Max Web CSI: 0.604 VIEW Ver: 21.02.01.1216.15	1

Lumber

Top chord: 2x4 SP M-31; T6 2x4 SP #2; Bot chord: 2x4 SP M-31; B2 2x6 SP 2400f-2.0E; B3 2x4 SP #2; Webs: 2x4 SP #3; W8 2x4 SP #2;

Plating Notes

(I) - plates so marked were sized using 0% Fabrication Tolerance, 0 degrees Rotational Tolerance, and/or zero Positioning Tolerance.

Loading

Attic room loading from 7-0-0 to 17-0-0: Live Load: 40 PSF. Dead Load: 10 PSF Ceiling: 10 PSF, Kneewalls: 10 PSF

Collar-tie braced with continuous lateral bracing at 24" oc. or rigid ceiling.

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.

Maximu	m Top Chord I Tens.Comp.	Forces Per	Ply (lbs)	
Chords	Tens.Comp.	Chords	Tens. C	omp.
D-E E-F	470 - 5558 4528 - 359	E-F F-G	298 - 4563	3602

/Rh

Brg Wid = 3.5 Min Req = 1.5 (Truss)

Members not listed have forces less than 375#

▲ Maximum Reactions (lbs) Gravity

Wind reactions based on MWFRS Brg Wid = 3.5

Bearings B & K are a rigid surface.

Loc R+

1935 /-

1800

В

- 3602 - 364 G - H 304 - 3646 383 - 2225 B - C 148 - 2656 H - I 156 - 2520 C-D 180 - 2570 154 - 2002

Non-Gravity

/100 /189

/RL

/Rw /U

/665

/544 /93

Min Reg = 1.6 (Truss)

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Co	omp.
B - P	2050 - 112	M - L	2259	- 175
P - O	2052 - 113			

Maximum Web Forces Per Ply (lbs)

vvebs	i ens.Comp.	vvebs	rens. Comp.
C-0	149 - 456	M - I	120 - 520
O - D	1099 - 31	H - M	883 0
E-Q	330 - 3285	I-L	150 - 1731
F-Q	492 - 47	L-J	2678 - 204
Q - G	330 - 3285	J - K	170 - 1774



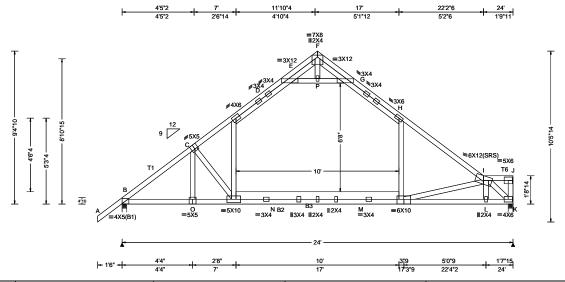
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SEQN: 57804 COMN Ply: 1 Job Number: 22-7038 Cust: R 215 JRef: 1Xe92150011 T124 FROM: DrwNo: 088.22.1532.51760 Qty: 1 Culverhouse Truss Label: B24 KD / WHK 03/29/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	DefI/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.421 P 679 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.866 G 330 180
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.229 H
Des Ld: 40.00	EXP: B Kzt: NA Mean Height: 15.00 ft		HORZ(TL): 0.540 H
NCBCLL: 10.00	TCDL: 4.2 psf	Building Code:	Creep Factor: 2.0
Soffit: 2.00	BCDL: 3.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.870
Load Duration: 1.25	MWFRS Parallel Dist: h/2 to h	TPI Std: 2014	Max BC CSI: 0.817
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.522
	Loc. from endwall: not in 4.50 ft	FT/RT:20(0)/10(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17

Lumber

Top chord: 2x4 SP M-31; T1,T6 2x4 SP #2; Bot chord: 2x4 SP #2; B2 2x4 SP M-31; B3 2x6 SP 2400f-2.0E;

Webs: 2x4 SP #3;

Loading

Attic room loading from 7-0-0 to 17-0-0: Live Load: 40 PSF. Dead Load: 10 PSF Ceiling: 10 PSF, Kneewalls: 10 PSF

Purlins

Collar-tie braced with continuous lateral bracing at 24" oc. or rigid ceiling.

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.

١.	PP Dellection	on in id	JC L	_/aeii	⊔#
	VERT(LL):	0.421	Р	679	240
	VERT(CL):	0.866	G	330	180
	HORZ(LL):			_	-

D-E 489 - 5289 E-F 4270 - 375 F-G 4319 - 385 G - H 426 - 1926 F-G 321 - 3447 B - C 147 - 2378 150 - 2253 C-D 181 - 2292

Brg Wid = 3.5 Min Req = 1.9 (Truss)

Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs)

Non-Gravity

/101

Tens. Comp.

/RL

/193

/Rw /U

/664

/553 /91

Min Reg = 2.1 (Truss)

Chords

Maximum Bot Chord Forces Per Ply (lbs)

▲ Maximum Reactions (lbs) Gravity

Wind reactions based on MWFRS Brg Wid = 3.5

Bearings B & K are a rigid surface.

/Rh

Loc R+

1761 /-

Chords Tens.Comp.

1628

Chords	Tens.Comp.		Chords	Tens. Comp.	
B-O	1827	- 99	M - L	2103	- 177
O - N	1829	- 99	L-K	2111	- 175

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C-N	157 - 442	P-G	338 - 3002
N - D	1089 - 31	M - I	128 - 562
E-P	338 - 3002	H - M	847 0
F-P	451 - 48	I-K	223 - 2687



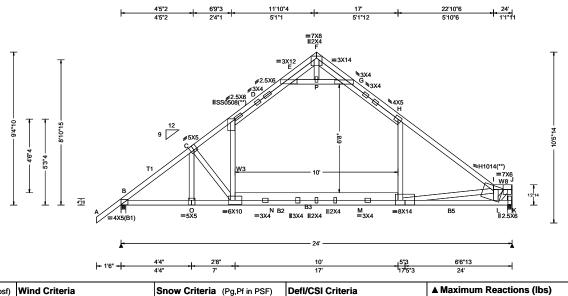
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SEQN: 57675 COMN Ply: 1 Job Number: 22-7038 Cust: R 215 JRef: 1Xe92150011 FROM: DrwNo: 088.22.1532.49513 Qty: 1 Culverhouse Truss Label: B25 KD / WHK 03/29/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	•
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA	PP Deflection in loc L/defl L/# VERT(LL): 0.430 G 665 240 VERT(CL): 0.918 H 311 180 HORZ(LL): -0.258 H -	
Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	EXP: B Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.18	Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s):	HORZ(TL): 0.598 H Creep Factor: 2.0 Max TC CSI: 0.824 Max BC CSI: 0.703 Max Web CSI: 0.571	W B K B W
	Wind Duration: 1.60	WAVE, 18SS, HS	VIEW Ver: 21.02.00.1005.17	Þ

Top chord: 2x4 SP M-31; T1 2x4 SP #2; Bot chord: 2x4 SP #2; B2,B5 2x4 SP M-31; B3 2x6 SP 2400f-2.0E; Webs: 2x4 SP #3; W3 2x4 SP M-31; W8 2x4 SP #2;

Plating Notes

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

Loading

Attic room loading from 7-0-0 to 17-0-0: Live Load: 40 PSF. Dead Load: 10 PSF Ceiling: 10 PSF, Kneewalls: 10 PSF

Collar-tie braced with continuous lateral bracing at 24" oc. or rigid ceiling.

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.

NA	PP Deflection in Toc I	_/defi	∟/#		G
۱A	VERT(LL): 0.430 G	665	240	Loc	R+
	VERT(CL): 0.918 H	311	180		1761
	HORZ(LL): -0.258 H	-	-	κ	1628
	HORZ(TL): 0.598 H	_	-	Win	d read
	Creep Factor: 2.0			В	Brg V
	Max TC CSI: 0.824			K	Brg V

)	B 176		/-	/664	/102	/197
		8 /-	/-	/562	/89	/-
	Wind re	actions	based of	n MWFRS		
				in $Req = 2$.		
	K Brg	Wid = 3	3.5 M	in Req = 1.	5 (Truss	s)
	Bearing	sB&K	are a rig	gid surface.		
	Membei	s not lis	sted hav	e forces les	s than 3	375#
	Maximu	ım Top	Chord	Forces Per	Ply (lb	s)
	Chords	Tens.0	Comp.	Chords	Tens.	Comp.
	D-E	468	- 4988	E-F	296	- 3212
	E-F	3983	- 363	F-G	4115	- 387
	G - H	281	- 1739	F-G	326	- 3328
	B-C	1/6	- 2368	H - I	142	- 2244
	D-U	140	- 2300	11-1	144	2277
	C-D		- 2329	I - J	144	- 1699

/Rh

Non-Gravity

/RL

/Rw /U

Gravity

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.		Chords	Tens. Comp.		
B - O	1817	- 86	M - L	2247	- 200	
O - N	1821	-86				

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
N - D	1095 - 33	H - M	797 0
E-P	335 - 2893	I-L	193 - 1846
F-P	437 - 48	L-J	2530 - 212
P-G	335 - 2892	J - K	118 - 1651
M - I	162 - 725		



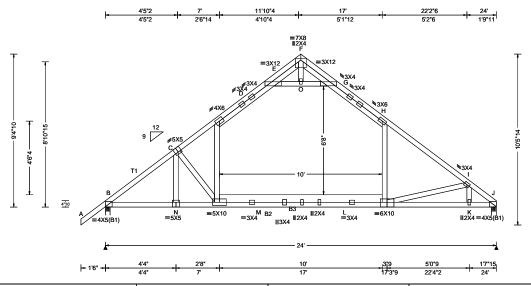
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SEQN: 57686 COMN Ply: 1 Job Number: 22-7038 Cust: R 215 JRef: 1Xe92150011 T137 FROM: DrwNo: 088.22.1532.46860 Qty: 1 Culverhouse Truss Label: B26 KD / WHK 03/29/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	DefI/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.401 O 708 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.804 G 353 180
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.210 H
Des Ld: 40.00	EXP: B Kzt: NA		HORZ(TL): 0.497 H
NCBCLL: 10.00	Mean Height: 15.00 ft TCDL: 4.2 psf	Building Code:	Creep Factor: 2.0
Soffit: 2.00	BCDL: 3.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.834
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI: 0.769
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.463
	Loc. from endwall: Any	FT/RT:20(0)/10(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17

Lumber

Top chord: 2x4 SP M-31; T1 2x4 SP #2; Bot chord: 2x4 SP #2; B2 2x4 SP M-31; B3 2x6 SP 2400f-2.0E; Webs: 2x4 SP #3;

Loading

Attic room loading from 7-0-0 to 17-0-0: Live Load: 40 PSF. Dead Load: 10 PSF Ceiling: 10 PSF, Kneewalls: 10 PSF

Purlins

Collar-tie braced with continuous lateral bracing at 24" oc. or rigid ceiling.

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

Wind loading based on both gable and hip roof types.

	▲ Maxir	num Rea	ctions ((lbs)		
		Gravity		No	on-Grav	vity
0	Loc R+	- / R-	/ Rh	/ Rw	/ U	/ RL
0	B 175	1 /-	/-	/661	/102	/204
	J 163	8 /-	/-	/583	/87	/-
	Wind re	actions b	ased on	MWFRS		
	B Brg	Wid = 3	.5 Min	Req = 2.7	1 (Truss	s)
				Req = 1.9	(Trus	s)
	Bearing	s B & J a	re a rigio	d surface.		
	Membei	rs not list	ed have	forces less	s than 3	375#
				orces Per		•
	Chords	Tens.Co	omp.	Chords	Tens.	Comp.
	D-E	710 -	5145	F-F	451	- 3301
	Ē-F	-			4265	
	G-H	513 -	1927	F-G	469	- 3416
	B-C	238 -	2367	H - I	240	- 2238
	C - D	272 -	2245	11	286	- 2472

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.C	omp.	Chords	Tens. (Comp.
B - N	1819	- 138	L-K		- 232
N - M	1820	- 139	K-J		- 230

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C - M	151 - 483	0 - G	474 - 2959
D - M	1082 - 53	L-I	173 - 490
E - O	474 - 2960	H-L	831 0
F-0	445 - 67		



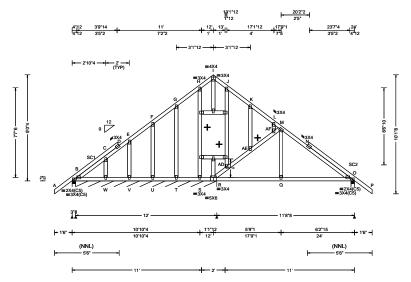
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SEQN: 84941 GABL Ply: 1 Job Number: 22-7038 Cust: R 215 JRef: 1Xe92150011 T117 FROM: Qty: 1 DrwNo: 088.22.1532.44230 Culverhouse Truss Label: B27 KD / WHK 03/29/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.042 N 999 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.087 N 999 180
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.023 N
Des Ld: 40.00	EXP: B Kzt: NA		HORZ(TL): 0.048 N
NCBCLL: 10.00	Mean Height: 15.00 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 4.2 psf BCDL: 3.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.418
	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI: 0.312
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.481
- - - - - - - - - -	Loc. from endwall: Any	FT/RT:20(0)/10(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.01.1216.15
Lumber			

ımber	M - N	60 - 467	N - O	66	- 606
m should 2v4 CD #2v	141 14	00 -01	IN - O	00	000

Top chord: 2x4 SP #2; Bot chord: 2x4 SP #2; Webs: 2x4 SP #3; Stack Chord: SC1 2x4 SP #2; Stack Chord: SC2 2x4 SP #2;

Plating Notes

All plates are 2X4 except as noted.

Loading

Gable end supports 8" max rake overhang. Top chord must not be cut or notched.

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

Wind loading based on both gable and hip roof types.

Additional Notes

See DWGS A14015ENC160118 & GBLLETIN0118 for gable wind bracing and other requirements.

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

+ Member to be laterally braced for horizontal wind loads. bracing system to be desiged and furnished by others.

	۸N	/laxim	um Rea	ctions (I	bs), or *=	:PLF		
		G	avity		No	on-Gra	vity	
10	Loc	: R+	/ R-	/ Rh	/ Rw	/ U	/ RL	
30	В	344	/-	/-	/163	/6	/215	
-	B*	104	/-	/-	/66	/16	/-	
-	0	655	/-	/-	/401	/32	/-	
	Wii	nd read	ctions b	ased on N	MWFRS			
	В	Brg V	Vid = 3.	.5 Min F	Req = 1.5	(Trus	s)	
	В	Brg V	Vid = 14	43 Min F	Req = -			
	0	Brg V	Vid = 3.	.5 Min F	Req = 1.5	(Trus	s)	
	Bea	arings	B, B, &	O are a r	igid surfa	ce.		
	Ме	mbers	not liste	ed have fo	orces less	s than	375#	
	Ma	ximun	n Top C	hord Fo	rces Per	Ply (lk	os)	
	Ch	ords ⁻	rens.Co	omp. (Chords	Tens.	Ćomp.	

M - N	60 - 467	N - O	66	- 606
Maximum	Bot Chord	Forces Per	Ply (lbs)	

Tens. Comp. Chords Tens.Comp. Chords R-Q 413 0-0 411 0

Maximum Web Forces Per Ply (lbs)

vvebs	rens.co	mp.	vvebs	rens. C	omp
R -AD AD-AE	175 - 172 -		AE-AF AF- M		- 429 - 479



03/29/2022

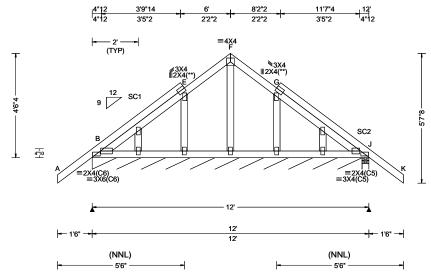
WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!

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SEQN: 57688 GABL Ply: 1 Job Number: 22-7038 Cust: R 215 JRef: 1Xe92150011 T109 FROM: Qty: 1 DrwNo: 088.22.1531.58503 Culverhouse Truss Label: B28 KD / WHK 03/29/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res.	PP Deflection in loc L/defl L/# VERT(LL): 0.002 B 999 240 VERT(CL): 0.003 B 999 180 HORZ(LL): 0.001 G HORZ(TL): 0.001 G Creep Factor: 2.0 Max TC CSI: 0.296
	BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	Max BC CSI: 0.065 Max Web CSI: 0.048 VIEW Ver: 21.02.00.1005.17

▲ M	axim	um Rea	ctions (I	os), or *=	:PLF	
	G	avity		No	on-Gra	vity
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
В*	80	/-	/-	/48	/6	/11
J	295	/-	/-	/188	/30	/-
Win	d read	ctions b	ased on N	/WFRS		
В	Brg V	Vid = 14	40 Min F	Req = -		
J	Brg V	Vid = 3.	5 Min F	Req = 1.5	(Trus	s)
Bea	rings	B&Ja	re a rigid s	surface.	-	•
Mer	nbers	not liste	ed have fo	orces less	s than	375#

Lumber

Top chord: 2x4 SP #2; Bot chord: 2x4 SP #2; Webs: 2x4 SP #3; Stack Chord: SC1 2x4 SP #2;

Stack Chord: SC2 2x4 SP #2;

Plating Notes

All plates are 2X4 except as noted.

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

Purlins

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

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

Wind loading based on both gable and hip roof types.

Additional Notes

See DWGS A14015ENC160118 & GBLLETIN0118 for gable wind bracing and other requirements.

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



03/29/2022

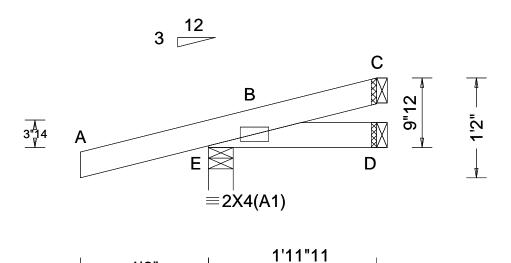
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SEQN: 57868 JACK Ply: 1 Job Number: 22-7038 Cust: R 215 JRef: 1Xe92150011 T11 FROM: DrwNo: 088.22.1531.56127 Qty: 4 Culverhouse Truss Label: J01 KD / WHK 03/29/2022



1'11"11

Loading Criteria (psf) Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. 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): 0.000 B HORZ(TL): 0.000 B Creep Factor: 2.0 Max TC CSI: 0.168 Max BC CSI: 0.028 Max Web CSI: 0.000 VIEW Ver: 21.02.00.1005.17

- 1'6" -

▲ Max	imum R	eactions (I	bs)		
	Gravity	,	No	on-Gra	vity
Loc F	R+ /R-	/ Rh	/ Rw	/ U	/ RL
E 23	31 /-	/-	/120	/59	/22
D 23	31 /- 3 /-	/-	/13	/4	/-
C 21	/-	/-	/13	/7	/-
Wind I	eactions	based on I	MWFRS		
E Bi	rg Wid =	3.5 Min I	Req = 1.5	(Trus	s)
D B	rg Wid =	1.5 Min I	Req = -		-
C B	rg Wid =	1.5 Min I	Req = -		
Bearin	gEisa	rigid surface	e.		
Memb	ers not li	sted have f	orces les	s than	375#

Lumber

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

Wind loads based on MWFRS with additional C&C

Wind loading based on both gable and hip roof types.

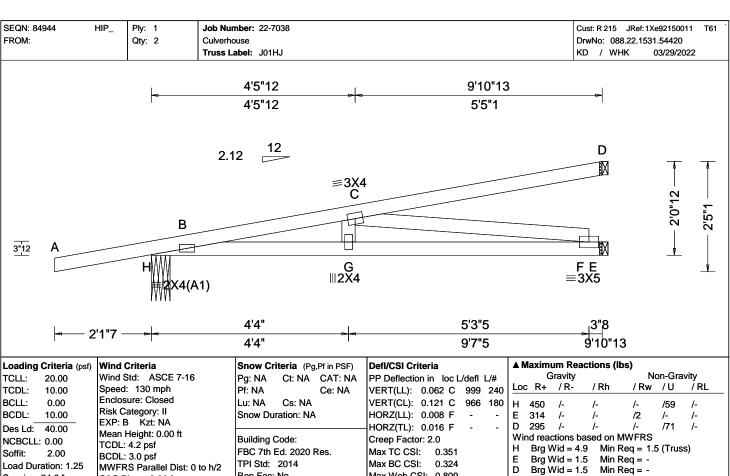


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Lumber

Spacing: 24.0 "

Top chord: 2x4 SP M-31; Bot chord: 2x4 SP M-31; Webs: 2x4 SP #3;

Loading

Hipjack supports 7-0-0 setback jacks with no webs.

C&C Dist a: 3.00 ft

Wind Duration: 1.60

Loc. from endwall: NA

GCpi: 0.18

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

Max BC CSI: 0.324 Max Web CSI: 0.809

VIEW Ver: 21.02.01.1216.15

Chords Tens.Comp. B - C 150 - 1409

Bearing H is a rigid surface.

Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Tens. Comp. Chords

Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

B - G 1385 - 149 G-F 1373 - 158

Maximum Web Forces Per Ply (lbs)

Tens.Comp. Webs C-F 160 - 1390



03/29/2022

Rep Fac: No

Plate Type(s):

WAVE

FT/RT:20(0)/10(0)

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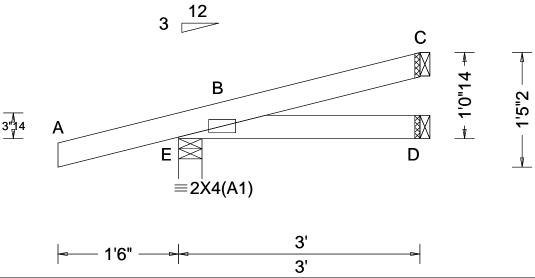
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For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

SEQN: 57864 JACK Ply: 1 Job Number: 22-7038 Cust: R 215 JRef: 1Xe92150011 T14 FROM: DrwNo: 088.22.1531.51120 Qty: 4 Culverhouse Truss Label: J02 KD / WHK 03/29/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	DefI/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): NA
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): NA
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.000 B
Des Ld: 40.00	EXP: B Kzt: NA		HORZ(TL): 0.001 B
NCBCLL: 10.00	Mean Height: 15.00 ft TCDL: 4.2 psf	Building Code:	Creep Factor: 2.0
Soffit: 2.00	BCDL: 3.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.148
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI: 0.058
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.000
	Loc. from endwall: not in 4.50 ft	FT/RT:20(0)/10(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17
Lumber			

▲ Maximum Reactions (lbs) Gravity Non-Gravity Loc R+ /Rh /Rw /U /RL 255 /132 /28 D 46 /-/25 59 /26 /15 Wind reactions based on MWFRS Brg Wid = 3.5 Min Req = 1.5 (Truss) Brg Wid = 1.5 Min Req = -Brg Wid = 1.5 Min Req = -Bearing E is a rigid surface. Members not listed have forces less than 375#

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

Wind loads based on MWFRS with additional C&C

Wind loading based on both gable and hip roof types.



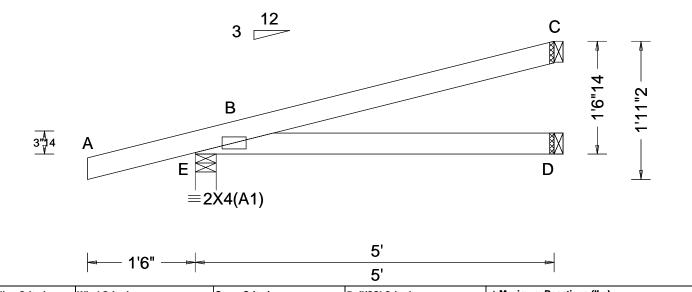
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SEQN: 57837 **JACK** Ply: 1 Job Number: 22-7038 Cust: R 215 JRef: 1Xe92150011 T18 FROM: DrwNo: 088.22.1531.49497 Qty: 4 Culverhouse Truss Label: J03 KD / WHK 03/29/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (It	os)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.18	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. 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): 0.005 B HORZ(TL): 0.009 B Creep Factor: 2.0 Max TC CSI: 0.278 Max BC CSI: 0.212 Max Web CSI: 0.000 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh E 323 /- /- D 86 /- /- C 121 /- /- Wind reactions based on M E Brg Wid = 3.5 Min R D Brg Wid = 1.5 Min R C Brg Wid = 1.5 Min R Bearing E is a rigid surface Members not listed have for	Req = 1.5 (Truss) Req = - Req = - e.

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

Wind loads based on MWFRS with additional C&C

Wind loading based on both gable and hip roof types.



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SEQN: 57776 **EJAC** Ply: 1 Job Number: 22-7038 Cust: R 215 JRef: 1Xe92150011 T21 FROM: DrwNo: 088.22.1531.47623 Qty: 18 Culverhouse Truss Label: J04 KD / WHK 03/29/2022 C ū В 3"14 D \equiv 2X4(A1) - 1'6" -Loading Criteria (psf) Wind Criteria Snow Criteria (Pa Pf in PSF) Defl/CSI Criteria ▲ Maximum Reactions (lbs) Gravity Non-Gravity

Loading Criteria (psi)	wind Criteria	Show Criteria (Pg,Pf in PSF)	Defi/CSi Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): NA
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): NA
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.015 B
Des Ld: 40.00	EXP: B Kzt: NA Mean Height: 15.00 ft		HORZ(TL): 0.029 B
NCBCLL: 10.00	TCDL: 4.2 psf	Building Code:	Creep Factor: 2.0
Soffit: 2.00	BCDL: 3.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.654
Load Duration: 1.25	MWFRS Parallel Dist: h/2 to h	TPI Std: 2014	Max BC CSI: 0.477
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.000
	Loc. from endwall: not in 4.50 ft	FT/RT:20(0)/10(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17
Lumber			

Loc R+ /Rh /Rw /U /RL 398 /205 /49 125 /-/68 179 /70 Wind reactions based on MWFRS Brg Wid = 3.5 Min Req = 1.5 (Truss) Brg Wid = 1.5 Min Req = -Brg Wid = 1.5 Min Req = -Bearing E is a rigid surface. Members not listed have forces less than 375#

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

Wind loads based on MWFRS with additional C&C

Wind loading based on both gable and hip roof types.



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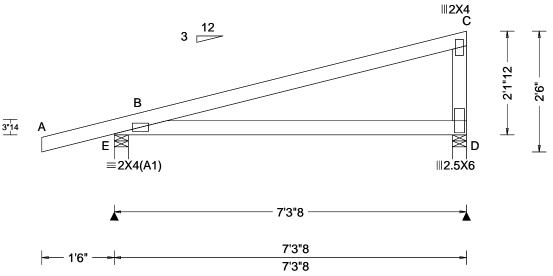
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SEQN: 57777 MONO Ply: 1 Job Number: 22-7038 Cust: R 215 JRef: 1Xe92150011 T59 FROM: DrwNo: 088.22.1531.44817 Qty: 13 Culverhouse Truss Label: J06 KD / WHK 03/29/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): NA
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): NA
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.015 B
Des Ld: 40.00	EXP: B Kzt: NA Mean Height: 15.00 ft		HORZ(TL): 0.030 B
NCBCLL: 10.00	TCDL: 4.2 psf	Building Code:	Creep Factor: 2.0
Soffit: 2.00	BCDL: 3.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.649
Load Duration: 1.25	MWFRS Parallel Dist: h to 2h	TPI Std: 2014	Max BC CSI: 0.480
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.230
	Loc. from endwall: not in 9.00 ft	FT/RT:20(0)/10(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17

▲ Maximum Reactions (lbs) Gravity Non-Gravity Loc R+ /Rh /Rw /U /RL 409 /211 276 /145 /-Wind reactions based on MWFRS Brg Wid = 3.5 Min Req = 1.5 (Truss) Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings E & D are a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SP #2; Bot chord: 2x4 SP #2; Webs: 2x4 SP #3;

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.



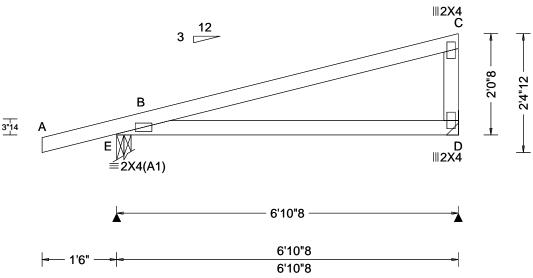
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SEQN: 57788 MONO Ply: 1 Job Number: 22-7038 Cust: R 215 JRef: 1Xe92150011 T50 FROM: DrwNo: 088.22.1531.43130 Qty: 4 Culverhouse Truss Label: J07 KD / WHK 03/29/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): NA
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): NA
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.013 B
Des Ld: 40.00	EXP: B Kzt: NA Mean Height: 15.00 ft		HORZ(TL): 0.025 B
NCBCLL: 10.00	TCDL: 4.2 psf	Building Code:	Creep Factor: 2.0
Soffit: 2.00	BCDL: 3.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.565
Load Duration: 1.25	MWFRS Parallel Dist: h to 2h	TPI Std: 2014	Max BC CSI: 0.420
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.190
	Loc. from endwall: not in 9.00 ft	FT/RT:20(0)/10(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17

▲ Maximum Reactions (lbs) Gravity Non-Gravity Loc R+ /Rh /Rw /U /RL 393 /203 258 /136 /-/19 Wind reactions based on MWFRS Brg Wid = 3.5Min Reg = 1.5 (Truss) Brg Wid = -Min Req = -Bearing E is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SP #2; Bot chord: 2x4 SP #2; Webs: 2x4 SP #3;

Hangers / Ties

(J) Hanger Support Required, by others

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.



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SEQN: 57818 HIPM Ply: 1 Job Number: 22-7038 Cust: R 215 JRef: 1Xe92150011 T111 FROM: DrwNo: 088.22.1531.41430 Qty: 1 Culverhouse Truss Label: J08 KD / WHK 03/29/2022 7'4" 13'3"8 7'4" 5'11"8 ∥2X4 D 3 12 ≡3X4 C 3'10"12 3"14 F ∥2X4 ≡2X4(A1) **≡4X4** 13'3"8 7'2"4 6'1"4 - 1'6" -7'2"4 13'3"8

Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	DefI/CSI Criteria	•
TCLL: 20.00	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. 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): 0.043 F 999 240 VERT(CL): 0.084 F 999 180 HORZ(LL): 0.012 E HORZ(TL): 0.023 E Creep Factor: 2.0 Max TC CSI: 0.495 Max BC CSI: 0.611 Max Web CSI: 0.840 VIEW Ver: 21.02.00.1005.17	GE W GE B W M C B
Lumber				_

▲ Maxim	um Rea	ctions (II	os)		
(avity		No	on-Gra	vity
Loc R+	/ R-	/ Rh	/Rw	/ U	/ RL
G 645	/-	/-	/332	/69	/84
E 525	/-	/-	/261	/64	/-
Wind read	ctions b	ased on N	/WFRS		
G Brg V	Vid = 3.	5 Min F	Req = 1.5	(Trus	s)
E Brg \	Vid = 3.	5 Min F	Req = 1.5	(Trus	s)
Bearings	G&Ea	re a rigid	surface.		
Members	not liste	ed have fo	rces les	s than	375#
Maximun	n Top C	hord For	ces Per	Ply (lk	s)
Chords				, , .	-,
B-C	263 -	1174			

Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. 1103 - 334 1093 - 336

Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. C-E 348 - 1132

Wind

Top chord: 2x4 SP #2;

Bot chord: 2x4 SP #2; Webs: 2x4 SP #3;

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.



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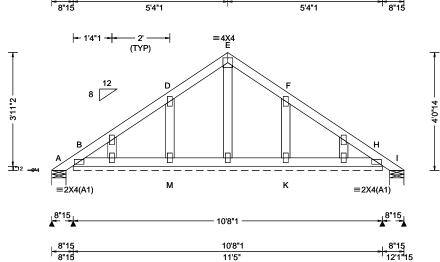
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SEQN: 57822 GABL Ply: 1 Job Number: 22-7038 Cust: R 215 JRef: 1Xe92150011 T108 FROM: DrwNo: 088.22.1531.39573 Qty: 2 Culverhouse Truss Label: PB01 KD / WHK 03/29/2022

11'5"

6'0"15



L/# 240
240
-
400
180
-
-
7

▲ Ma			actions (I			
	G	ravity		N	on-Gra	ivity
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/RL
Α	19	/-	/-	/55	/41	/78
В*	71	/-	/-	/52	/1	/-
1	19	/-	/-	/15	/1	/-
Win	d read	ctions b	ased on I	MWFRS		
Α	Brg V	Vid = 5	.9 Min I	Req = 1.5	(Trus	ss)
В	Brg V	Vid = 1	28 Min I	Req = -		
1	Brg V	Vid = 5	.9 Min I	Req = 1.5	5 (Trus	s)
Bea	rings .	A, B, &	I are a rig	gid surfac	e.	
Men	nbers	not list	ed have f	orces les	s than	375#

Lumber

Top chord: 2x4 SP #2; Bot chord: 2x4 SP #2; Webs: 2x4 SP #3;

Plating Notes

All plates are 2X4 except as noted.

Loading

Gable end supports 8" max rake overhang. Top chord must not be cut or notched.

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

Wind loading based on both gable and hip roof types.

Additional Notes

See DWGS A14030ENC160118 & GBLLETIN0118 for gable wind bracing and other requirements.

Refer to DWG PB160160118 for piggyback details.



WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!

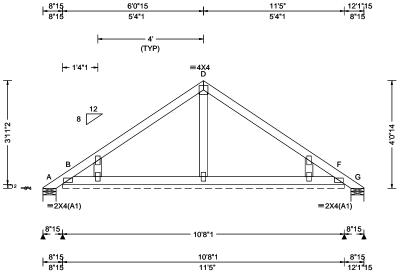
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For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

SEQN: 57780 COMN Ply: 1 Job Number: 22-7038 Cust: R 215 JRef: 1Xe92150011 T102 FROM: DrwNo: 088.22.1531.38173 Qty: 12 Culverhouse Truss Label: PB02 KD / WHK 03/29/2022



▲ Maximum Reactions (lbs), or *=PLF									
	G	ravity	-	Non-Gravity					
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL			
Α	30	/-	/-	/58	/38	/78			
В*	69	/-	/-	/51	/1	/-			
G	30	/-	/-	/22	/3	/-			
Wir	nd read	ctions b	ased on N	MWFRS					
Α	Brg V	Vid = 5.	9 Min F	Req = 1.5	(Trus	s)			
В	Brg V	Vid = 12	28 Min F	Reg = -	•	•			
			9 Min F		(Trus	s)			
Bearings A, B, & G are a rigid surface.									
Mei	Members not listed have forces less than 375#								

Lumber

Top chord: 2x4 SP #2; Bot chord: 2x4 SP #2; Webs: 2x4 SP #3;

Plating Notes

All plates are 2X4 except as noted.

Loading

Gable end supports 8" max rake overhang. Top chord must not be cut or notched.

In lieu of rigid ceiling use purlins to brace BC @ 24" OC.

Wind

Wind loads based on MWFRS with additional C&C

Wind loading based on both gable and hip roof types.

Additional Notes

See DWGS A14030ENC160118 & GBLLETIN0118 for gable wind bracing and other requirements.

Refer to DWG PB160160118 for piggyback details.



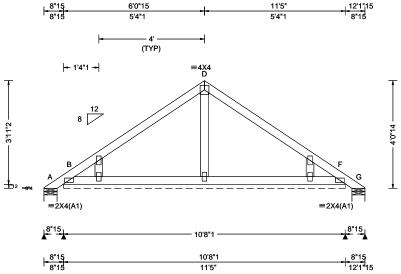
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SEQN: 57820 COMN Ply: 1 Job Number: 22-7038 Cust: R 215 JRef: 1Xe92150011 T75 FROM: DrwNo: 088.22.1531.36700 Qty: 2 Culverhouse Truss Label: PB03 KD / WHK 03/29/2022



	▲ Maximum Reactions (lbs), or *=PLF									
		G	avity		Non-Gravity					
	Loc	R+	/ R-	/ Rh	/ Rw	/U	/ RL			
	Α	30	/-	/-	/59	/38	/78			
	В*	69	/-	/-	/51	/0	/-			
	G	30	/-	/-	/22	/3	/-			
	Wir	d read	ctions b	ased on N	/WFRS					
	Α	Brg V	Vid = 5.	9 Min F	Req = 1.5	(Trus	ss)			
	В	Brg V	Vid = 12	28 Min F	. = eq	•	•			
	G Brg Wid = 5.9 Min Reg = 1.5 (Truss)									
	Bearings A, B, & G are a rigid surface.									
	Members not listed have forces less than 375#									
_										

Lumber

Top chord: 2x4 SP #2; Bot chord: 2x4 SP #2; Webs: 2x4 SP #3;

Plating Notes

All plates are 2X4 except as noted.

Loading

Gable end supports 8" max rake overhang. Top chord must not be cut or notched.

Wind loads based on MWFRS.

Wind loading based on both gable and hip roof types.

Additional Notes

See DWGS A14030ENC160118 & GBLLETIN0118 for gable wind bracing and other requirements.

Refer to DWG PB160160118 for piggyback details.



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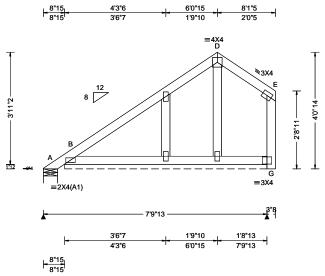
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SEQN: 57824 COMN Ply: 1 Job Number: 22-7038 Cust: R 215 JRef: 1Xe92150011 T105 FROM: DrwNo: 088.22.1531.35123 Qty: 3 Culverhouse Truss Label: PB04 KD / WHK 03/29/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.001 B 999 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.001 B 999 180
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.001 B
Des Ld: 40.00 NCBCLL: 10.00	EXP: B Kzt: NA Mean Height: 21.05 ft TCDL: 4.2 psf	Building Code:	HORZ(TL): 0.001 B Creep Factor: 2.0
Soffit: 2.00	BCDL: 2.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.091
Load Duration: 1.25	MWFRS Parallel Dist: h to 2h	TPI Std: 2014	Max BC CSI: 0.035
Spacing: 24.0 "	C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft	Rep Fac: Yes FT/RT:20(0)/10(0)	Max Web CSI: 0.039
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17

▲ Maximum Reactions (lbs), or *=PLF									
(3ravity		No	on-Gra	vity				
Loc R+	/ R-	/ Rh	/ Rw	/ U	/ RL				
Α -	/-37	/-	/53	/60	/71				
B* 81	/-	/-	/63	/8	/-				
Wind rea	ctions b	ased on N	/WFRS						
A Brg \	Nid = 5.	9 Min F	Req = 1.5	(Trus	s)				
B Brg \	Nid = 84	1.9 Min F	Req = -	-	•				
Bearings A & B are a rigid surface.									
Members	not liste	ed have fo	orces les	s than	375#				

Lumber

Top chord: 2x4 SP #2; Bot chord: 2x4 SP #2; Webs: 2x4 SP #3;

Plating Notes

All plates are 2X4 except as noted.

Loading

Gable end supports 8" max rake overhang. Top chord must not be cut or notched.

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

See DWGS A14030ENC160118 & GBLLETIN0118 for gable wind bracing and other requirements.

Refer to DWG PB160160118 for piggyback details.



03/29/2022

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Gable Stud Reinforcement Detail

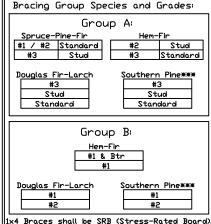
ASCE 7-16: 140 mph Wind Speed, 30' Mean Height, Enclosed, Exposure C, Kzt = 1.00

Dr: 120 mph Wind Speed, 30' Mean Height, Partially Enclosed, Exposure C, Kzt = 1.00

Dr: 120 mph Wind Speed, 30' Mean Height, Enclosed, Exposure D, Kzt = 1.00

Or: 100 mph wind speed, 30' Mean Height, Partially Enclosed, Exposure D, Kzt = 1.00

		2×4	Brace	No	(1) 1×4 *L	Brace *	(1) 2×4 *L	." Brace *	(2) 2×4 *L	Brace **	(1) 2×6 L	. Brace *	(2) 2×6 *L	Brace **
	Spacing	Vertica Species	Grade	Braces	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B
t 1			#1 / #2	4′ 1″	6′ 11″	7′ 2″	8′ 2 ″	8′ 6″	9′ 9″	10′ 2″	12' 10"	13′ 4″	14′ 0″	14′ 0″
	1.7	SPF	#3	3′ 10″	6′ 2″	6′ 7″	8′ 1″	8′ 5 ″	9′ 8″	10′ 0″	12′ 8″	13′ 2″	14′ 0″	14′ 0″
<u>ا</u> گ	ب	HF	Stud	3′ 10″	6′ 2″	6′ 6 ″	8′ 1″	8′ 5 ″	9′ 8″	10′ 0″	12′ 8″	13′ 2″	14′ 0″	14′ 0″
>	ō		Standard	3′ 10″	5′ 3″	5′ 7 ″	7′ 0″	7′ 6″	9′ 6″	10′ 0″	11′ 0″	11′ 10″	14′ 0″	14′ 0″
ا به ا			#1	4′ 2″	7′ 0″	7′ 3″	8′ 3″	8′ 7″	9′ 10″	10′ 3″	13′ 0 ″	13′ 6″	14′ 0″	14′ 0″
	*	SP	#2	4′ 1″	6′ 11″	7′ 2″	8′ 2 ″	8′ 6″	9′ 9″	10′ 2″	12′ 10″	13′ 4″	14′ 0″	14′ 0″
	4	L	#3	4′ 0″	5′ 7″	5′ 11″	7′ 5 ″	7′ 11″	9′ 8″	10′ 1″	11′ 7″	12′ 5″	14′ 0″	14′ 0″
ا _ک	α	IDF L	Stud	4′ 0″	5′ 7 ″	5′ 11″	7′ 5″	7′ 11″	9′ 8″	10′ 1″	11′ 7″	12′ 5″	14′ 0″	14′ 0″
			Standard	3′ 9″	4′ 11″	5′ 13 ″	6′ 6″	7′ 0″	8′ 10 ″	9′ 6″	10′ 3″	11′ 0″	13′ 11″	14′ 0″
1.9		SPF HF	#1 / #2	4′ 8″	7′ 11″	8′ 3 ″	9′ 4″	9′ 9″	11′ 2″	11′ 7″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
1+			#3	4′ 5″	7′ 6″	8′ 3″	9′ 3″	9′ 7″	11′ 0″	11′ 6″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
	סיכ		Stud	4′ 5 ″	7′ 6″	8′ 0 ″	9′ 3″	9′ 7″	11′ 0″	11′ 6″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
امَ	Ō		Standard	4′ 5 ″	6′ 5 ″	6′ 10″	8′ 7 ″	9′ 2″	11′ 0″	11′ 6″	13′ 6″	14′ 0″	14′ 0″	14′ 0″
~			#1	4′ 10″	8′ 0 ″	8′ 4″	9′ 6″	9′ 10″	11′ 3″	11′ 9″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
/	*	SP	#2	4′ 8″	7′ 11″	8′ 3″	9′ 4″	9′ 9″	11′ 2″	11′ 7″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
		l	#3	4′ 7″	6′ 10″	7′ 3″	9′ 1″	9′ 8″	11′ 1″	11′ 6″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
lω	16	IDFL	Stud	4′ 7″	6′ 10″	7′ 3″	9′ 1″	9′ 8″	11′ 1″	11′ 6″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
			Standard	4′ 5 ″	6′ 0″	6′ 5 ″	8′ 0 ″	8′ 7″	10′ 10″	11′ 6″	12′ 7″	13′ 15″	14′ 0″	14′ 0″
		CDE	#1 / #2	5′ 2 ″	8′ 9 ″	9′ 1″	10′ 4″	10′ 9″	11′ 2″	12′ 9″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
て	-	SPF	#3	4′ 10″	8′ 7″	8′ 11 ″	10′ 2″	10′ 7″	12′ 2″	12′ 8″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
0	U	HF	Stud	4′ 10″	8′ 7 ″	8′ 11 ″	10′ 2″	10′ 7″	12′ 2″	12′ 8″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
	Ō		Standard	4′ 10″	7′ 5″	7′ 11″	9′ 11″	10′ 7″	12′ 2″	12′ 8″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
$ \times $			#1	5′ 4″	8′ 10 ″	9′ 2″	10′ 5 ″	10′ 10″	12′ 5″	12′ 11″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
	*	SP	#2	5′ 2 ″	8′ 9″	9′ 1″	10′ 4″	10′ 9″	12′ 3″	12′ 9″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
M	ù	L	#3	5′ 0 ″	7′ 10″	8′ 4″	10′ 3″	10′ 8″	12′ 2″	12′ 8″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
	10	IDFL	Stud	5′ 0 ″	7′ 10″	8′ 4″	10′ 3″	10′ 8″	12′ 2″	12′ 8″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
			Standard	4′ 10″	6′ 11″	7′ 4″	9′ 3″	9′ 10″	12′ 2″	12′ 8″	14′ 0″	14′ 0″	14′ 0″	14′ 0″



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

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

Provide uplift connections for 100 plf over continuous bearing (5 psf TC Dead Load).

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

Attach "L" braces with 10d (0.128"x3.0" min) nails. ★ For (1) "L" brace: space nails at 2" o.c. in 18" end zones and 4" o.c. between zones. ₩₩For (2) "L" braces: space nails at 3" o.c. in 18" end zones and 6" o.c. between zones.

"L" bracing must be a minimum of 80% of web member length.

Gable Vertical Plate	Sizes						
Vertical Length	No Splice						
Less than 4' 0"	2X4						
Greater than 4' 0", but less than 11' 6"	3X4						
Greater than 11' 6"	4X4						
+ Refer to common truss design for							

Refer to the Building Designer for conditions not addressed by this detail.

Gable Truss Diagonal brace option: vertical length may be doubled when diagonal brace is used. Connect diagonal brace for 525# at each end. Max web total length is 14'. 2x6 DF-L #2 or better diagonal brace; single Vertical length shown or double cut in table above. (as shown) at upper end. Connect diagonal at midpoint of vertical web.

Symm C "L" Brace End Zones, typ. Continuous Bearing Refer to chart shove for max gable ventical length.

VARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING ****IMPORTANT*** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

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Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITV Building Components Group Inc. shall not be responsible for any deviation for this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation 8 bracing of trusses.

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

COA #0 278 03/29/2022

|DATE 01/26/2018 DRWG A14030ENC160118

ASCE7-16-GAB14030

MAX. SPACING 24.0"

514 Earth City Expressway Suite 242 Earth City, MO 63045

MAX, TOT, LD, 60 PSF

Gable Detail For Let-in Verticals Gable Truss Plate Sizes Refer to appropriate Alpine gable detail for minimum plate sizes for vertical studs. (+) Refer to Engineered truss design for peak, splice, web, and heel plates. *If gable vertical plates overlap, use a single plate that covers the total area of the overlapped plates to span the web. Gable Example: Length typ. (*)

Provide connections for uplift specified on the engineered truss design.

Attach each "T" reinforcing member with

End Driven Nails:

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

(4) nails in the top and bottom chords.

10d Common (0.148"x3".min) Toenails at 4" o.c. plus

(4) toenails in the top and bottom chords.

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

ASCE 7-05 Gable Detail Drawings

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

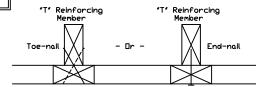
ASCE 7-10 & ASCE 7-16 Gable Detail Drawings

A11515ENC100118, A12015ENC100118, A14015ENC100118, A16015ENC100118, A18015ENC100118, A20015ENC100118, A20015END100118, A20015PED100118, A11530ENC100118, A12030ENC100118, A14030ENC100118, A16030ENC100118, A18030ENC100118, A20030ENC100118, A20030END100118, A20030PED100118, S11515ENC100118, S12015ENC100118, S14015ENC100118, S16015ENC100118, \$18015ENC100118, \$20015ENC100118, \$20015END100118, \$20015PED100418,

S11530ENC100118, S12030ENC100118, S14030ENC100118, \$16030[NC1001]8, \$1,000 \$18030ENC100118, \$20030ENC100118, \$20030EN0100118, \$20030PED100118

See appropriate Alpine gable detail for maximum dayeinforces galle ver

"T" Reinforcement Attachment Detail



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

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

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

Web Length Increase w/ "T" Brace

"T" Reinf.	"T"				
Mbr. Size	Increase				
2×4	30 %				
2x6	20 %				

Example:

ASCE 7-10 Wind Speed = 120 mph Mean Roof Height = 30 ft, Kzt = 1.00 Gable Vertical = 24"o.c. SP #3

"T" Reinforcing Member Size = 2x4

"T" Brace Increase (From Above) = 30% = 1.30

(1) 2x4 "L" Brace Length = 8' 7"

Maximum "T" Reinforced Gable Vertical Length $1.30 \times 8' \ 7'' = 11' \ 2''$

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Refer to drawings 160A-Z for standard plate positions.

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

REF LET-IN VERT DATE 01/02/2018 DRWG GBLLETIN0118

MAX, TOT, LD, 60 PSF DUR. FAC. ANY MAX. SPACING 24.0"

Rigid Sheathing

Ceiling

4 Nails

Nails

Spaced At

4 Nails

Reinforcing Member

Gable

Truss

514 Earth City Expressway Suite 242 Earth City, MO 63045

Piggyback Detail - ASCE 7-16: 160 mph, 30' Mean Height, Enclosed, Exposure C, Kzt=1.00

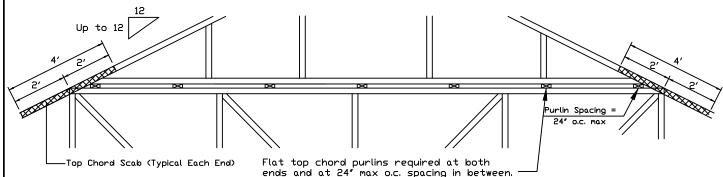
160 mph Wind, 30.00 ft Mean Hgt, ASCE 7-16, Enclosed Bldg. located anywhere in roof, Exp C, Wind DL= 5.0 psf (min), Kzt=1.0. Dr 140 mph wind, 30.00 ft Mean Hgt, ASCE 7-16, Enclosed Bldg. located anywhere in roof, Exp D, wind DL= 5.0 psf (min), Kzt=1.0.

Note: Top chords of trusses supporting piggyback cap trusses must be adequately braced by sheathing or purlins. The building Engineer of Record shall provide diagonal bracing or any other suitable anchorage to permanently restrain purlins, and lateral bracing for out of plane loads over gable ends.

Maximum truss spacing is 24' o.c. detail is not applicable if cap supports additional loads such as cupola, steeple, chimney or drag strut loads.

** Refer to Engineer's sealed truss design drawing for piggyback and base truss specifications.

Detail A: Purlin Spacing = 24" o.c. or less



Piggyback cap truss slant nailed to all top chord purlin bracing with (2) 16d box nails (0.135"x3.5") and secure top chord with 2x4 #3 grade scab (1 side only at each end) attached with 2 rows of 10d box nails (0.128"x3") at 4" o.c.

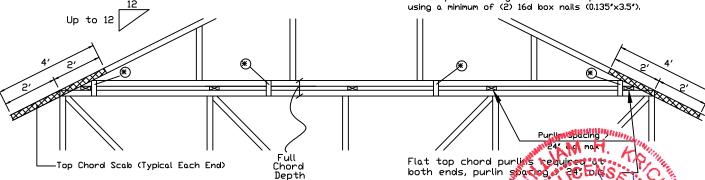
Attach purlin bracing to the flat top chord using (2) 16d box nails (0.135"x3.5").

The top chord #3 grade 2x4 scab may be replaced with either of the following: (1) 3X8 Trulox plate attached with (8) 0.120"x1.375" nalls, (4) into cap TC & (4) into base truss TC or (1) 28PB wave piggyback plate plated to the piggyback truss TC and attached to the base truss TC with (4) 0.120"x1.375" nails. Note: Nailing thru holes of wave plate is acceptable.

Detail B: Purlin Spacing > 24" o.c.

Piggyback cap truss slant nailed to all top chord purlin bracing with (2) 16d box nails (0.135"x3.5") and secure top chord with 2x4 #3 grade scab (1 side only at each end) attached with 2 rows of 10d box nails (0.128"x3") at 4" o.c.

Attach purlin bracing to the flat top chord



Note: If purlins or sheathing are not specified on the flat top of the sage truss, purlins must be installed at 24" o.c. max. and use Detail A.

* In addition, provide connection with one of the following methods:

Use 3X8 Trulox plates for 2x4 chord member, and 3X10 Trulox plates for 2x6 and larger chord members. Attach to each face @ 8' o.c. with (4) 0.120"x1.375" nails into cap bottom chord and (4) in base truss top chord. Trulox plates may be staggered 4' o.c. front to back faces.

APA Rated Gusset

8'x8'x7'16' (min) APA rated sheathing gussets (each face). Attach @ 8' o.c. with (8) 6d common (0.13'x2') nalls per gusset, (4) in cap bottom chord and (4) in base truss top chord. Gussets may be staggered 4' o.c. front to back faces.

2x4 Vertical Scabs

2x4 SPF #2, full chord depth scabs (each face). Attach @ 8' o.c. with (6) 10d box nails (0.128"x3") per scab, (3) in cap bottom chord and (3) in base truss top chord. Scabs may be staggered o.c. front to back faces.

28PB Wave Piggyback Plate

Dine 28PB wave piggyback plate to each face 8 8' o.c. Attach teeth to piggyback at time of fabrication. Attach to supporting truss with (4) 0.120'x1.375' nails per face per ply.
Piggyback plates may be staggered 4' o.c. front

to back faces.

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IREF **PIGGYBACK** 01/02/2018 DATE

DRWG PB160160118

24.0"

514 Earth City Expressway Suite 242 Earth City, MO 63045

SPACING

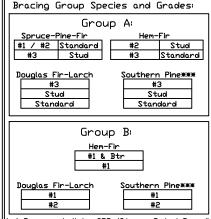
Gable Stud Reinforcement Detail

ASCE 7-16: 140 mph Wind Speed, 15' Mean Height, Enclosed, Exposure C, Kzt = 1.00

Dr: 120 mph Wind Speed, 15' Mean Height, Partially Enclosed, Exposure C, Kzt = 1.00

Dr: 120 mph Wind Speed, 15' Mean Height, Enclosed, Exposure D, Kzt = 1.00 Or: 100 mph Wind Speed, 15' Mean Height, Partially Enclosed, Exposure D, Kzt = 1.00

l	Bri 100 mpri wind Speed, 13 medri neight, Fartidaty Enclosed, Exposure B, KZt - 1.00								,					
		2x4 Yertica	Brace	No	(1) 1×4 "L	Brace *	(1) 2×4 *L	" Brace *	(2) 2×4 *L	" Brace **	(1) 2×6 *L	" Brace *	(2) 2×6 L	"Brace **
	Spacing	Species	Grade	Braces	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B
다			#1 / #2	4′ 3″	7′ 3″	7′ 7 ″	8′ 7 ″	8′ 11″	10′ 3″	10′ 8 ″	13′ 6″	14' 0"	14' 0"	14′ 0″
		SPF	#3	4′ 1″	6′ 7 ″	7′ 1″	8′ 6 ″	8′ 10 ″	10′ 1″	10′ 6″	13′ 4″	13′ 10″	14′ 0″	14′ 0″
Đ	ļΨ	HF	Stud	4′ 1″	6′ 7″	7′ 0 ″	8′ 6 ″	8′ 10 ″	10′ 1″	10′ 6″	13′ 4″	13′ 10 ″	14′ 0″	14′ 0″
) 			Standard	4′ 1″	5′ 8 ″	6′ 0 ″	7′ 7″	8′ 1 ″	10′ 1″	10′ 6″	11′ 10″	12′ 8 ″	14′ 0″	14′ 0″
به			#1	4′ 6″	7′ 4″	7′ 8 ″	8′ 8 ″	9′ 0″	10′ 4″	10′ 9 ″	13′ 8″	14′ 0″	14' 0"	14′ 0″
$ \perp $	🔌	ISP	#2	4′ 3″	7′ 3″	7′ 7″	8′ 7 ″	8′ 11″	10′ 3″	10′ 8″	13′ 6″	14′ 0″	14′ 0″	14′ 0″
	4	l	#3	4′ 2 ″	6′ 0 ″	6′ 4″	7′ 11″	8′ 6 ″	10′ 2″	10′ 7″	12′ 5″	13′ 4″	14′ 0″	14′ 0″
	$ \alpha $	IDFL	Stud	4′ 2″	6′ 0″	6′ 4″	7′ 11″	8′ 6″	10′ 2″	10′ 7″	12′ 5″	13′ 4″	14′ 0″	14′ 0″
č			Standard	4′ 0″	5′ 3″	5′ 7 ″	7′ 0″	7′ 6″	9′ 6″	10′ 2″	11′ 0″	11′ 10″	14′ 0″	14′ 0″
<u> .U</u>		CDE	#1 / #2	4′ 11″	8′ 4″	8′ 8 ″	9′ 10″	10′ 3″	11′ 8″	12′ 2″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
+>	-	SPF	#3	4′ 8 ″	8′ 1″	8′ 8 ″	9′ 8″	10′ 1″	11′ 7″	12′ 1″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
`_	Ų	HF	Stud	4′ 8″	8′ 1″	8′ 6 ″	9′ 8″	10′ 1″	11′ 7″	12′ 1″	14′ 0″	14′ 0″	14' 0"	14′ 0″
à	Ιō	1 11	Standard	4′ 8″	6′ 11″	7′ 5 ′	9′ 3 ″	9′ 11″	11′ 7″	12′ 1″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
\mathbb{I}			#1	5′ 1 ″	8′ 5 ″	8′ 9 ″	9′ 11″	10′ 4″	11′ 10″	12′ 4″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
/		l SP	#2	4′ 11″	8′ 4″	8′ 8 ″	9′ 10″	10′ 3″	11′ 8″	12′ 2″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
	9	n = 1	#3	4′ 9″	7′ 4″	7′ 9″	9′ 9″	10′ 2″	11′ 8″	12′ 1″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
IJΨ	<u> </u>	IDFL	Stud	4′ 9″	7′ 4″	7′ 9″	9′ 9″	10′ 2″	11′ 8″	12′ 1″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
			Standard	4′ 8″	6′ 5″	6′ 10 ″	8′ 7 ″	9′ 2 ′	11′ 7″	12′ 1″	13′ 6 ″	14′ 0″	14′ 0″	14′ 0″
		SPF	#1 / #2	5′ 5″	9′ 2″	9′ 6″	10′ 10″	11′ 3″	11′ 8″	13′ 5″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
ල	l . .	I .	#3	5′ 1′	9′ 0″	9′ 4″	10′ 8″	11′ 1″	12′ 9″	13′ 3″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
0	Ų	HF	Stud	5′ 1 ′	9′ 0″	9′ 4″	10′ 8″	11′ 1″	12′ 9″	13′ 3″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
	Ιō	1 11	Standard	5′ 1 ″	8′ 0″	8′ 6″	10′ 8″	11′ 1″	12′ 9″	13′ 3″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
×	~		#1	5′ 8″	9′ 3″	9′ 8″	10′ 11″	11′ 4″	13′ 0″	13′ 6″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
ll a		SP	#2	5′ 5″	9′ 2″	9′ 6″	10′ 10″	11′ 3″	12′ 11″	13′ 5″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
MΩ	l à		#3	5′ 3″	8′ 5″	9′ 0″	10′ 9″	11′ 2″	12′ 10″	13′ 4″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
	; ;	DFL	Stud	5′ 3 ″	8′ 5 ″	9′ 0″	10′ 9 ″	11′ 2″	12′ 10 ″	13′ 4″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
			Standard	5′ 1 ″	7′ 5″	7′ 11 ″	9′ 11 ″	10′ 7″	12′ 9″	13′ 3″	14′ 0″	14′ 0″	14′ 0″	14′ 0″



1x4 Braces shall be SRB (Stress-Rated Board) **For 1x4 So. Pine use only Industrial 55 or Industrial 45 Stress-Rated Boards, Group B values may be used with these grades.

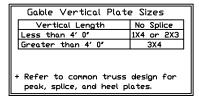
Gable Truss Detail Notes: Wind Load deflection criterion is 1/240.

Provide uplift connections for 55 plf over continuous bearing (5 psf TC Dead Load).

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

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

"L" bracing must be a minimum of 80% of web member length.



Refer to the Building Designer for conditions not addressed by this detail.

Gable Truss Diagonal brace option: vertical length may be doubled when diagonal brace is used. Connect diagonal brace for 450# at each end. Max web total length is 14'. 2x4 DF-L #2 or better diagonal brace; single Vertical length shown or double cut in table above. (as shown) at upper end. Connect diagonal at midpoint of vertical web.

Symm C "L" Brace End Zones, typ. Continuous Bearing Refer to chart shove for max gable ventical length.

VARNINGI READ AND FOLLOW ALL NOTES ON THIS DRAVINGI
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3/29/2022

ASCE7-16-GAB14015 DATE 01/26/2018 DRWG A14015ENC160118

MAX, TOT, LD, 60 PSF

MAX. SPACING 24.0"

514 Earth City Expressway Suite 242 Earth City, MO 63045

CLR Reinforcing Member Substitution

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

Notes:

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

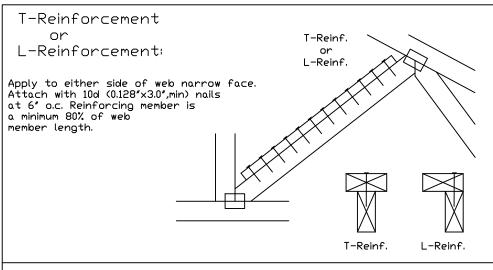
Alternative reinforcement specified in chart below may be conservative. For minimum alternative reinforcement, re-run design with appropriate reinforcement type.

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

Web Member	Specified CLR	Alternative Reir	
Size	Restraint	T- or L- Reinf.	
2x3 or 2x4	1 row	2×4	1-2×4
2x3 or 2x4	2 rows	2×6	2-2×4
2×6	1 row	2×4	1-2×6
2×6	2 rows	2×6	2-2×4(米)
2×8	1 row	2×6	1-2×8
2×8	2 rows	2×6	2-2×6(*)

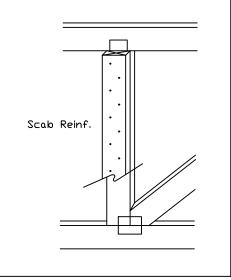
T-reinforcement, L-reinforcement, or scab reinforcement to be same species and grade or better than web member unless specified otherwise on Engineer's sealed design.

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



Scab Reinforcement:

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



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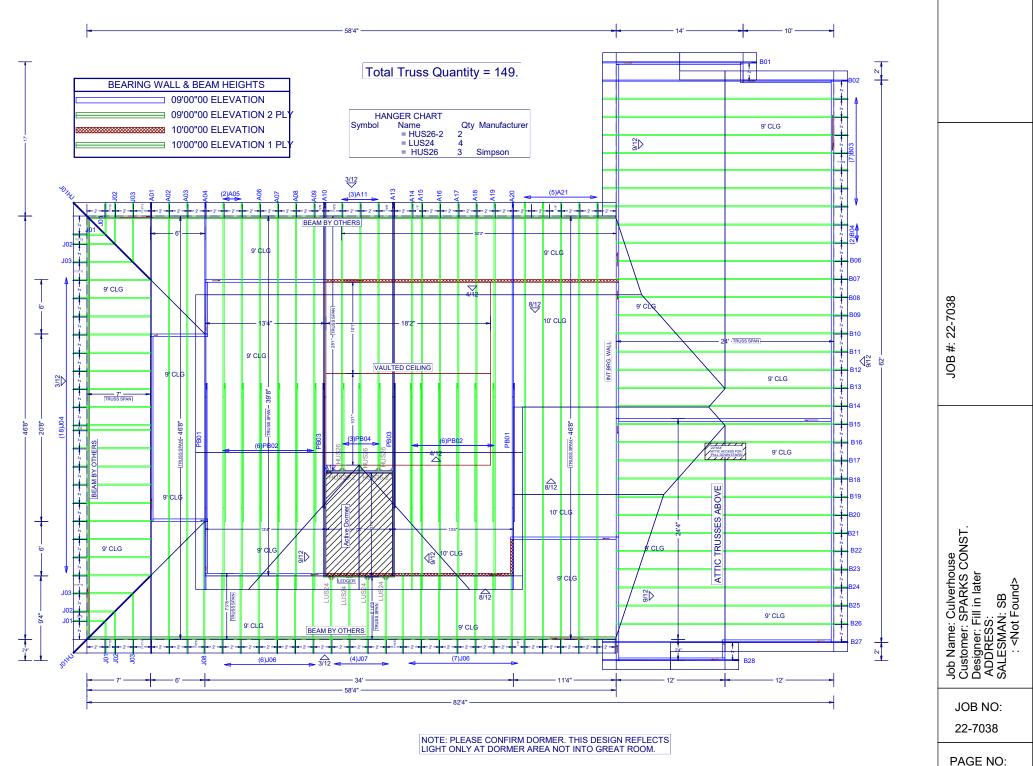
∓€ LL		REF	
TC DL		DATE	
BC DL	PSF	DRWG	BRC
BC LL	PSF		
TOT. LD.	PSF		
		1	
DUR. FAC.			

SPACING

Subst. 2/19 LBSUB0119



514 Earth City Expressway Suite 242 Earth City, MO 63045



1 OF 1