

Alpine, an ITW company 155 Harlem Ave. North Building, 4th Floor

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alpineitw.com

Site Information:

Customer: Mill Creek Truss

Job Number: JB-232208R

Job Description: Customer: CAPITAL BUILDERS LLC Address:100 NE Tudor Rd

Address: 100 NE Tudor Rd, Lee Summit, MO 64086

Job Engineering Criteria:	
Design Code: IBC 2018	IntelliVIEW Version: 23.01.02
	JRef #: 1XW093160001
Wind Standard: ASCE 7-16 Wind Speed (mph): 115	Design Loading (psf): 40.00
Building Type: Closed	

This package contains general notes pages, 8 truss drawing(s) and 2 detail(s).

Item	Drawing Number	Truss
1	362.23.1331.50283	A01
3	362.23.1331.26343	A03
5	362.23.1331.06633	B02
7	362.23.1331.02227	B04
9	BRCLBSUB0119	

Item	Drawing Number	Truss
2	362.23.1331.29623	A02
4	362.23.1331.08747	B01
6	362.23.1331.03987	B03
8	362.23.1327.42993	B05
10	DEFLCAMB1014	

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.

FRT-PR = ProWood Fire Retardant Treated lumber.

g = green lumber.

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

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

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

Ic = Incised lumber.

FJ = Finger Jointed lumber.

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

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

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

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

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

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

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

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

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

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

PP = Panel Point.

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

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

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

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

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

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

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

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

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

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

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

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

Refer to ASCE-7 for Wind and Seismic abbreviations.

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

References:

- 1. AWC: American Wood Council; 222 Catoctin Circle SE, Suite 201; Leesburg, VA 20175; www.awc.org.
- 2. ICC: International Code Council; www.iccsafe.org.
- 3. Alpine, a division of ITW Building Components Group Inc.: 155 Harlem Ave, North Building, 4th Floor, Glenview, IL 60025; www.alpineitw.com.
- 4. TPI: Truss Plate Institute, 2670 Crain Highway, Suite 203, Waldorf, MD 20601; www.tpinst.org.
- 5. SBCA: Wood Truss Council of America, 6300 Enterprise Lane, Madison, WI 53719; www. sbcacomponents.com.

SEQN: 180726 MONO Ply: 1 Job Number: JB-232208R Cust: R 9316 JRef: 1XW093160001 T9 FROM: DCH Qty: 6 Customer:CAPITAL BUILDERS LLC Address:100 NE Tudor Rd DrwNo: 362.23.1331.50283 Truss Label: A01 / DJR 12/28/2023 27'5"12 2"12 7'1"14 13'10"3 20'6"10 7'1"14 6'8"5 6'8"7 12 0.25 ≡6X12 (±+) ≡4X10 D 9"14 A<u>w1</u> 2'6"14 -(a) H ≡4X4 ≡3X4 **≡SS0612** ≡4X8 27'5"12 9'4"11 4'7"5 4'3"13 8'11"3 9'4"11 18'3"13 27'3'

Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 15.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 115 mph	Pf: 11.6 Ce: 1.0	VERT(LL): 0.347 C 946 240
BCLL: 0.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.580 C 565 240
BCDL: 10.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.066 G
Des Ld: 40.00 NCBCLL: 0.00	EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 6.0 psf	Building Code:	HORZ(TL): 0.111 G Creep Factor: 2.0
Soffit: 2.00	BCDL: 6.0 psf	IBC 2018	Max TC CSI: 0.228
l	MWFRS Parallel Dist: h/2 to h	TPI Std: 2014	Max BC CSI: 0.475
Spacing: 24.0 "	C&C Dist a: 3.00 ft Loc. from endwall: Any	Rep Fac: Varies by Ld Case FT/RT:10(0)/5(0)	Max Web CSI: 0.890
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE, 18SS	VIEW Ver: 23.01.02.0731.17

Lumber

Top chord: 2x6 DF-L 2400f-1.8E; Bot chord: 2x4 SP 2850f-2.3E; Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E; Rt Bearing Leg: 2x4 SPF 2100f-1.8E;

Bracing

(a) Continuous lateral restraint equally spaced on member

Special Loads

(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)						
TC: From	77 plf at	0.46 to	77 plf at	27.54		
PLT: From	33 plf at	0.46 to	0 plf at	4.62		
BC: From	20 plf at	0.00 to	20 plf at	27.25		

Plating Notes

(++) - This plate works for both joints covered.

Loading

Drifting snow load has been considered for only in plane loading as follows: Lu1 Lu2 Height 0.00 27.08 3.45 Location Lu1 3.45 33.20 4.16 Where: Lu1 = leeward distance, Lu2 = windward distance Pd = max applied load, W = length of applied load.

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

End verticals not exposed to wind pressure.

Deflection

Max JT VERT DEFL: LL: 0.32" DL: 0.22". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Provide for complete drainage of roof. Truss must be installed as shown with top chord up. Top Chord overhang(s) may be field trimmed.

▲ Maximum Reactions (lbs)

	G	ravity		Non-Gravity			
Loc	: R+	/ R-	/ Rh	/ Rw	/ U	/ RL	
к	1358	/-	/-	/562	/258	/152	
F	1344	/-	/-	/578	/219	/-	
Wir	nd read	tions b	ased on N	/WFRS			
Κ	Brg V	/id = 5.	5 Min F	Req = 1.5	(Supp	ort)	
F	Brg V	/id = 2.	5 Min F	Req = 1.5	(Supp	ort)	
Bea	Bearing F is a rigid surface.						
Bearing K Fcperp = 565psi.							
Members not listed have forces less than 375#							
Ma	Maximum Ton Chord Forces Per Ply (lbs)						

Chords Tens.Comp. Chords Tens. Comp.

A - B C-D 1223 - 3993 531 - 561 B - C 1487 - 4468

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
K - J	4044 - 1573	I - H	4820 - 1658
J - I	4820 - 1658	H - G	3392 - 1164

Maximum Web Forces Per Ply (lbs)

	Webs	Tens.C	Comp.	Webs	Tens.	Comp.
	К-В	1419	- 3991	H-D	808	- 94
Q233772	30	533	- 25	D - G	1175	- 3416
OF M	J. J. C.	343	- 390	F-G	1081	- 302
	C-M	11 461	- 907	E-F	1683	- 1955
	16	W				
DALUD	. `	(CVA)	L			
DAVID ,	J.	177.1	λ			

ROTHWEILER NUMBER PE-2017000361

MO COA #2005000817

MO COA #2005000817 12/28/2023

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!

IMPORTANT FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

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



SEQN: 180729 MONO Ply: 1 Job Number: JB-232208R Cust: R 9316 JRef: 1XW093160001 T7 FROM: DCH Customer:CAPITAL BUILDERS LLC Address:100 NE Tudor Rd Qty: 33 DrwNo: 362.23.1331.29623 Truss Label: A02 / DJR 12/28/2023 27'5"12 2"12 7'1"14 13'10"3 20'6"10 7'1"14 6'8"5 6'8"7 12 0.25 ≡6X12 (<u>+</u>+) ≡4X8 D 9"14 A<u>W1</u> 2'6"14 -H ≡3X4 ≡3X4 **≡SS0612** ≡4X8 27'5"12 9'4"11 4'7"5 4'3"13 8'11"3 9'4"11 18'3"13 27'3'

Loading Criteria (nsf)	Wind Criteria	Snow Criteria (Pa Pf in PSF)	Defl/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: 1.15	Wind Criteria Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 15.00 ft TCDL: 6.0 psf BCDL: 6.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: 20.0 Ct: 1.1 CAT: II Pf: 20.0(specified) Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:10(0)/5(0) Plate Type(s): WAVE. 18SS	Defl/CSI Criteria
		A I Pro a I Market	

Lumber

Top chord: 2x6 SPF 1650f-1.5E; Bot chord: 2x4 SPF 2100f-1.8E; Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E; Rt Bearing Leg: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member

Plating Notes

(++) - This plate works for both joints covered.

Loading

Drifting snow load has been considered for only in plane loading as follows: Location Lu1 Lu2 Height 0.46 0.00 27.08 3.45 3.45 37.90 4.57 Where: Lu1 = leeward distance, Lu2 = windward distance Pd = max applied load, W = length of applied load.

Wind

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

End verticals not exposed to wind pressure.

Deflection

Max JT VERT DEFL: LL: 0.27" DL: 0.26". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Provide for complete drainage of roof.

Truss must be installed as shown with top chord up. Top Chord overhang(s) may be field trimmed.

▲ Maximum Reactions (lbs) Gravity

Gravity				Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
ĸ	1148	/-	/-	/546	/-	/92
F	1108	/-	/-	/559	/-	/-
Wii	nd read	tions b	ased on N	/WFRS		
K	Brg V	/id = 5	.5 Min F	Req = 1.5	(Trus	ss)
F	Brg V	/id = 2	.5 Min F	Req = 1.5	(Sup	port)
Bearing F is a rigid surface.						
Bearing K Fcperp = 565psi.						

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

Chords Tens.Comp. Chords Tens. Comp. A - B 341 - 397 C-D 359 - 3317

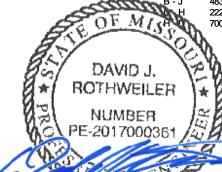
B - C 489 - 3730

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

K - J	3363 - 608	I - H	3975	- 569
J - I	3975 - 569	H - G	2798	- 397

Maximum Web Forces Per Ply (lbs)

vvebs	rens.Comp.	vvebs	rens. Comp.
K - B	515 - 3311	D-G	403 - 2812
B-J	483 0	F-G	903 -74
	222 - 720	E-F	1127 - 1451
M.	700 0		



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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: binst.org: SBCA: sbcacomponents.com: ICC: iccsafe.org: AWC: awc.org



SEQN: 180736 MONO Ply: 1 Job Number: JB-232208R Cust: R 9316 JRef: 1XW093160001 T10 FROM: DCH Customer:CAPITAL BUILDERS LLC Address:100 NE Tudor Rd Qty: 35 DrwNo: 362.23.1331.26343 Truss Label: A03 / DJR 12/28/2023 6'7"14 12'10"3 19'0"10 25'3' 25'5"12 2"12 6'7"14 6'2"5 6'2"7 6'2"6 12 0.25 ≡6X12 (±+) ≡3X10 D A_{W1} 2'6"14 -2'0"8 =3X4 H ≡3X4 =4X8 I ≡H0312 25'5"12 8'8"11 3'3"5 4'11"13 8'3"3 8'8"11 12' 16'11"13 25'3"

Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	DefI/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 15.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 115 mph	Pf: 11.6 Ce: 1.0	VERT(LL): 0.172 C 999 240
BCLL: 0.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.345 C 882 240
BCDL: 10.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.035 G
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.071 G
NCBCLL: 0.00	Mean Height: 15.00 ft TCDL: 6.0 psf	Building Code:	Creep Factor: 2.0
Soffit: 2.00	BCDL: 6.0 psf	IBC 2018	Max TC CSI: 0.119
Load Duration: 1.15	MWFRS Parallel Dist: h/2 to h	TPI Std: 2014	Max BC CSI: 0.313
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.677
	Loc. from endwall: Any	FT/RT:10(0)/5(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE, HS	VIEW Ver: 23.01.02.0731.17
Lumban		Additional Natas	

Lumber

Top chord: 2x6 DF-L 2400f-1.8E; Bot chord: 2x4 SP 2850f-2.3E; Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E; Rt Bearing Leg: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member

Plating Notes

(++) - This plate works for both joints covered.

Loading

Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height
0.46 0.00 25.08 3.41 3.41 31.45 3.94 Where: Lu1 = leeward distance, Lu2 = windward distance Pd = max applied load, W = length of applied load.

Wind

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

End verticals not exposed to wind pressure.

Deflection

Max JT VERT DEFL: LL: 0.16" DL: 0.16". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Provide for complete drainage of roof.

Truss must be installed as shown with top chord up. Top Chord overhang(s) may be field trimmed.

▲ Maximum Reactions (lbs)

	Gravity			No	n-Grav	rity
Loc	R+	/ R-	/ Rh	/Rw	/ U	/ RL
K	988	/-	/-	/522	/60	/150
F	1022	/-	/-	/538	/65	/-
Win	d reac	tions bas	sed on MV	VFRS		
K	Brg W	/id = 5.5	Min Re	q = 1.5	(Supp	ort)
F	Brg W	/id = 2.5	Min Re	q = 1.5	(Supp	ort)
Bea	Bearing F is a rigid surface.					
Bearing K Fcperp = 565psi.						
Mer	Members not listed have forces less than 375#					
Max	cimum	Top Ch	ord Force	es Per	Ply (lbs	s)

Chords Tens.Comp. Tens. Comp. Chords

A - B 512 - 558 C-D 1116 - 2805 B - C 1352 - 3100

Maximum Bot Chord Forces Per Ply (lbs)

Cilolus	rens.comp.	Cilolus	rens. Comp.
K-J	2768 - 1426	I - H	3346 - 1499
J - I	3346 - 1499	H-G	2370 - 1061

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens.	Comp.
K-B	1293 - 2755	D-G	1081	- 2407
B-J	435 - 34	F-G	833	- 302
H-M	411 - 601	E-F	1390	- 1486
D.	610 -93			

DAVID J. ROTHWEILER NUMBER

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155 Harlem Ave North Building, 4th Floor Glenview, IL 60025 SEQN: 180688 MONO Ply: 1 Job Number: JB-232208R Cust: R 9316 JRef: 1XW093160001 T16 FROM: DCH Qty: 6 Customer: CAPITAL BUILDERS LLC Address: 100 NE Tudor Rd DrwNo: 362.23.1331.08747 Truss Label: B01 / DJR 12/28/2023 13'11"3 20'1"12 27'0"8 6'2"9 0.25 =7X8 ≡6X12 (++) H ≡3X4 K ≡4X8 =4X4 =H0312

Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 15.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 115 mph	Pf: 11.6 Ce: 1.0	VERT(LL): 0.194 C 999 240
BCLL: 0.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.328 C 986 240
BCDL: 10.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): -0.023 L
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.040 L
NCBCLL: 0.00	Mean Height: 15.00 ft TCDL: 6.0 psf	Building Code:	Creep Factor: 2.0
Soffit: 2.00	BCDL: 6.0 psf	IBC 2018	Max TC CSI: 0.318
Load Duration: 1.15	MWFRS Parallel Dist: h/2 to h	TPI Std: 2014	Max BC CSI: 0.552
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Varies by Ld Case	Max Web CSI: 0.846
	Loc. from endwall: Any	FT/RT:10(0)/5(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE, HS	VIEW Ver: 23.01.02.0731.17

5'3"15

3'10"8

Lumber

Top chord: 2x6 DF-L 2400f-1.8E; T2 2x6 SPF 1650f-1.5E; Bot chord: 2x4 SP 2850f-2.3E; B2 2x4 SPF 2100f-1.8E; Webs: 2x4 SPF #1/#2; W1 2x4 SP 2850f-2.3E; W9 2x6 SPF 1650f-1.5E; Lt Bearing Leg: 2x4 SPF 2100f-1.8E;

Bracing

(a) Continuous lateral restraint equally spaced on

Special Loads

(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)						
TC: From	43 plf at	-0.29 to	43 plf at	0.77		
TC: From	77 plf at	0.77 to	77 plf at	26.29		
PLT: From	0 plf at	22.18 to	33 plf at	26.29		
BC: From	20 plf at	0.00 to	20 plf at	26.75		

Plating Notes

(++) - This plate works for both joints covered.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location Lu1 Lu2 Height Pd W
25.52 0.00 26.58 5.67 32.77 4.11 Where: Lu1 = leeward distance, Lu2 = windward distance Pd = max applied load, W = length of applied load.

Wind

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

End verticals not exposed to wind pressure.

Additional Notes

Provide for complete drainage of roof.

Truss must be installed as shown with top chord up.

▲ Maximum Reactions (lbs)

9'0"8

- 17	Idaiiiii	IIII IVE	actions (it	Jaj		
	Gravity				on-Grav	vity −
Loc	: R+	/ R-	/ Rh	/ Rw	/ U	/ RL
	1281 1335		/- /-		/201 /243	/264 /-
Wind reactions based on MWFRS						

Brg Wid = 2.5 Min Req = 1.5 (Support) Brg Wid = 5.5 Min Req = 1.7 (Truss)

Bearing M is a rigid surface.

Bearing G Fcperp = 565psi.

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

I _{А - В}	1050 - 2116	C-D	1501	- 3101
B-C	1366 - 3195	D-E	800	- 919

Maximum Bot Chord Forces Per Ply (lbs)

Cilolus	rens.comp.	Cilolus	rens. Comp.
K - J	2252 - 740	I-H	3674 - 1329
J - I	3674 - 1329	H-G	2669 - 1116

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp	
A - K	2351 - 810	J-C	393 - 563	3
A-WCZZ	658 - 1053	C - H	425 - 669	9
K B	463 - 1103	H-D	673 - 127	7
1133	1028 - 274	D - G	969 - 2776	3
100	$\sim M N_{\odot}$			

MO COA #2005000817

DAVID J.

ROTHWEILER

NUMBER

PE-201700036

MO COA #2005000817 12/28/2023

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!

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155 Harlem Ave North Building, 4th Floor Glenview, IL 60025

SEQN: 180691 MONO Ply: 1 Job Number: JB-232208R Cust: R 9316 JRef: 1XW093160001 T15 FROM: DCH Customer: CAPITAL BUILDERS LLC Address: 100 NE Tudor Rd DrwNo: 362.23.1331.06633 Qty: 14 Truss Label: B02 / DJR 12/28/2023 13'11"3 20'1"12 27'0"8 6'2"9 9'6"2 0.25 =7X8 ≡6X12 (++) H ≡3X4 _L ≡6x6 I ≡H0312 5'4"15 3'10"8 9'0"8 13'3"8

Wind Criteria	Snow Criteria (Pg,Pf in PSF)	DefI/CSI Criteria
Wind Std: ASCE 7-16	Pg: 15.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#
Speed: 115 mph	Pf: 11.6 Ce: 1.0	VERT(LL): 0.163 C 999 240
	Lu: - Cs: 1.00	VERT(CL): 0.326 C 991 240
, ,	Snow Duration: 1.15	HORZ(LL): 0.024 G
		HORZ(TL): 0.048 G
	Building Code:	Creep Factor: 2.0
	IBC 2018	Max TC CSI: 0.302
	TPI Std: 2014	Max BC CSI: 0.917
C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.846
Loc. from endwall: Any	FT/RT:10(0)/5(0)	
GCpi: 0.18	Plate Type(s):	
Wind Duration: 1.60	WAVE, HS	VIEW Ver: 23.01.02.0731.17
	Additional Notes	
	Wind Std: ASCE 7-16 Speed: 115 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 6.0 psf BCDL: 6.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18	Wind Std: ASCE 7-16 Speed: 115 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 6.0 psf BCDL: 6.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60 Pg: 15.0 Ct: 1.1 CAT: II Pf: 11.6 Ce: 1.0 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:10(0)/5(0) Plate Type(s): WAVE, HS

Lumber

Top chord: 2x6 SPF 1650f-1.5E; Bot chord: 2x4 SPF #1/#2; Webs: 2x4 SPF #1/#2; W9 2x6 SPF 1650f-1.5E; Lt Bearing Leg: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member

Plating Notes

(++) - This plate works for both joints covered.

Loading

Drifting snow load has been considered for only in plane loading as follows: Location Lu1 Lu2 Height 25.52 0.00 26.58 5.67 32.77 4.11 Where: Lu1 = leeward distance, Lu2 = windward distance Pd = max applied load, W = length of applied load.

Wind

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

End verticals not exposed to wind pressure.

Deflection

Max JT VERT DEFL: LL: 0.14" DL: 0.14". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Provide for complete drainage of roof.

Truss must be installed as shown with top chord up.

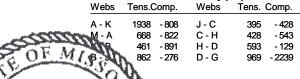
▲ Maximum Reactions (lbs) Gravity Non-Gravity Loc R+ /Rh /Rw /U /RL М 1080 /-/586 /264 1050 /-/-/565 /81 /-Wind reactions based on MWFRS Brg Wid = 2.5Min Req = 1.5 (Support) Brg Wid = 5.5 Min Req = 1.6 (Truss) Bearing M is a rigid surface. Bearing G Fcperp = 565psi.

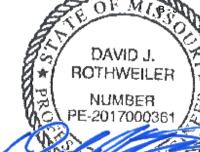
Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs)

Chords Tens.Comp. Chords Tens. Comp. A - B 1049 - 1736 C-D 1501 - 2536 B - C 1367 - 2637 D-E - 920 797

Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Tens. Comp. Chords K - J 1846 - 739 I - H 3000 - 1332

3000 - 1332 2155 - 1113 J - I H-G Maximum Web Forces Per Ply (lbs)





MO COA #2005000817

MO COA #2005000817 12/28/2023

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SEQN: 180679 MONO Ply: 1 Job Number: JB-232208R Cust: R 9316 JRef: 1XW093160001 T13 FROM: DCH Customer: CAPITAL BUILDERS LLC Address: 100 NE Tudor Rd DrwNo: 362.23.1331.03987 Qty: 19 Truss Label: B03 / DJR 12/28/2023 14'5"4 21'1"12 28'0"8 6'10"12 9'0"3 6'8"8 0.25 ≡3X10 D ≡10X12 =6X12(++) =4X8 H ≡3X4 _3X4 ≡H0312 5'3"15 4'10"8 9'0"8

Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	DefI/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 15.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 115 mph	Pf: 11.6 Ce: 1.0	VERT(LL): 0.185 C 999 240
BCLL: 0.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.370 C 906 240
BCDL: 10.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.027 G
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.054 G
NCBCLL: 0.00	Mean Height: 15.00 ft TCDL: 6.0 psf	Building Code:	Creep Factor: 2.0
Soffit: 2.00	BCDL: 6.0 psf	IBC 2018	Max TC CSI: 0.315
Load Duration: 1.15	MWFRS Parallel Dist: h/2 to h	TPI Std: 2014	Max BC CSI: 0.959
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.840
-	Loc. from endwall: Any	FT/RT:10(0)/5(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE, HS	VIEW Ver: 23.01.02.0731.17
		A 1 11/1 1 1 1 1	

Lumber

Top chord: 2x6 SPF 1650f-1.5E; Bot chord: 2x4 SPF #1/#2; Webs: 2x4 SPF #1/#2; W9 2x6 SPF 1650f-1.5E; Lt Bearing Leg: 2x4 SPF #1/#2;

3,8

Bracing

(a) Continuous lateral restraint equally spaced on member

Plating Notes

(++) - This plate works for both joints covered.

Loading

Drifting snow load has been considered for only in plane loading as follows: Location Lu1 Lu2 Height 26.52 0.00 27.58 5.64 5.64 33.62 4.22 Where: Lu1 = leeward distance, Lu2 = windward distance Pd = max applied load, W = length of applied load.

Wind

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

End verticals not exposed to wind pressure.

Deflection

Max JT VERT DEFL: LL: 0.16" DL: 0.17". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Provide for complete drainage of roof.

Truss must be installed as shown with top chord up.

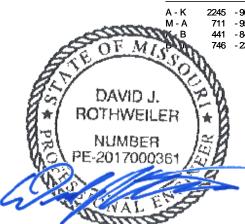
▲ Maximum Reactions (lbs) Gravity Non-Gravity Loc R+ /Rh /Rw /U /RL М 1120 /-/605 /264 1090 /-/-/585 /81 /-Wind reactions based on MWFRS Brg Wid = 2.5Min Req = 1.5 (Support) Brg Wid = 5.5 Min Req = 1.7 (Truss) Bearing M is a rigid surface. Bearing G Fcperp = 565psi. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 1175 - 2117 C-D 1522 - 2654 B - C 1447 - 2903 D-E 790 - 900

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

K-J	2219 - 863	1 - H	3188 - 1375	
J - I	3188 - 1375	H-G	2242 - 1126	

Maximum Web Forces Per Ply (lbs)

AA GD2	16115.0	onip.	AA CD2	16115.	Comp.
A - K	2245	- 903	C - H	444	- 624
M - A	711	- 953	H-D	646	- 140
B	441	- 846	D - G	972	- 2334
AL DON	746	- 230			



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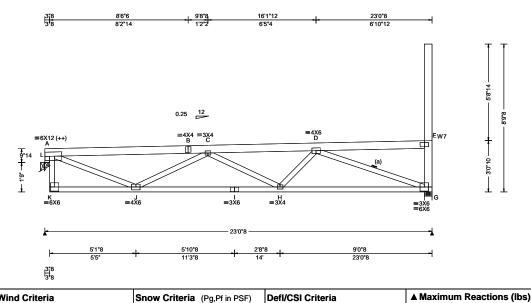
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SEQN: 180694 MONO Ply: 1 Job Number: JB-232208R Cust: R 9316 JRef: 1XW093160001 T11 Qty: 20 FROM: DCH Customer: CAPITAL BUILDERS LLC Address: 100 NE Tudor Rd DrwNo: 362.23.1331.02227 Truss Label: B04 / DJR 12/28/2023



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 15.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 115 mph	Pf: 11.6 Ce: 1.0	VERT(LL): 0.102 C 999 240
BCLL: 0.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.204 C 999 240
BCDL: 10.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.026 G
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.052 G
NCBCLL: 0.00	Mean Height: 15.00 ft TCDL: 6.0 psf	Building Code:	Creep Factor: 2.0
Soffit: 2.00	BCDL: 6.0 psf	IBC 2018	Max TC CSI: 0.329
Load Duration: 1.15	MWFRS Parallel Dist: h/2 to h	TPI Std: 2014	Max BC CSI: 0.751
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.672
' "	Loc. from endwall: Any	FT/RT:10(0)/5(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE	VIEW Ver: 23.01.02.0731.17

Lumber

Top chord: 2x6 SPF 1650f-1.5E; Bot chord: 2x4 SPF #1/#2; Webs: 2x4 SPF #1/#2; W7 2x6 DF-L 2400f-1.8E; Lt Bearing Leg: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member

Plating Notes

(++) - This plate works for both joints covered.

Loading

Drifting snow load has been considered for only in plane loading as follows: Location Lu1 Lu2 Height 21.52 0.00 22.58 5.75 29.14 3.65 Where: Lu1 = leeward distance, Lu2 = windward distance Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C

End verticals not exposed to wind pressure.

Additional Notes

Provide for complete drainage of roof.

Truss must be installed as shown with top chord up.

Gravity Non-Gravity Loc R+ /Rh /Rw /U /RL 920 /511 /266 890 /-/488 /80 /-Wind reactions based on MWFRS Brg Wid = 2.5 Min Req = 1.5 (Support) Brg Wid = 5.5 Min Req = 1.5 (Truss) Bearing L is a rigid surface. Bearing G Fcperp = 565psi. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs)

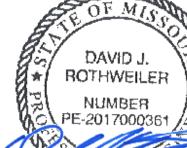
Chords Tens.Comp. Chords Tens. Comp. A - B 960 - 1487 C-D 1399 - 2050 B - C 960 - 1476 D-E 832 - 1012

Maximum Bot Chord Forces Per Ply (lbs)

Chorus	rens.comp.	Chorus	rens. Comp.
 J - I I - H	2254 - 1148 2254 - 1148	H-G	1788 - 1044

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
A - J L - A	1458 - 580 1202 - 1443 651 - 885	C-H H-D D-G	383 - 240 398 - 96 958 - 1835
A.M.	001 -000	D-0	300 - 1000



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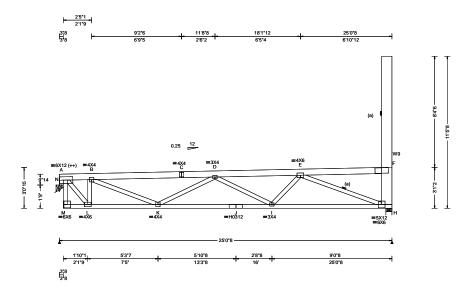
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SEQN: 180698 MONO Ply: 1 Job Number: JB-232208R Cust: R 9316 JRef: 1XW093160001 T14 FROM: DCH Qty: 15 Customer: CAPITAL BUILDERS LLC Address: 100 NE Tudor Rd DrwNo: 362.23.1327.42993 Truss Label: B05 / DJR 12/28/2023



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	ĺ
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 15.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	ĺ
TCDL: 10.00	Speed: 115 mph	Pf: 11.6 Ce: 1.0	VERT(LL): 0.126 D 999 240	١.
BCLL: 0.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.254 D 999 240	
BCDL: 10.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.020 H	
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.040 H	
NCBCLL: 0.00	Mean Height: 15.00 ft TCDL: 6.0 psf	Building Code:	Creep Factor: 2.0	
Soffit: 2.00	BCDL: 6.0 psf	IBC 2018	Max TC CSI: 0.246	
Load Duration: 1.15	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: 0.622	
	Loc. from endwall: Any	FT/RT:10(0)/5(0)		İ
	GCpi: 0.18	Plate Type(s):		ĺ
	Wind Duration: 1.60	WAVE HS	VIEW Ver: 23.01.02.0731.17	ľ

Lumber

Top chord: 2x6 SPF 1650f-1.5E; Bot chord: 2x4 SPF #1/#2; Webs: 2x4 SPF #1/#2; W9 2x10 DF-L 1950f-1.7E; Lt Bearing Leg: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member

Plating Notes

(++) - This plate works for both joints covered.

Loading

Drifting snow load has been considered for only in plane loading as follows: Location Lu1 Lu2 Height 23.21 0.00 24.27 8.38 30.72 3.85 Where: Lu1 = leeward distance, Lu2 = windward distance Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C

End verticals not exposed to wind pressure.

Additional Notes

Provide for complete drainage of roof.

Truss must be installed as shown with top chord up.

Gravity Non-Gravity Loc R+ /Rh /Rw /U /RL Ν 999 /586 /102 /383 /-/546 952 /114 Wind reactions based on MWFRS Min Req = 1.5 (Support) Brg Wid = 2.5 Brg Wid = 5.5 Min Req = 1.5 (Truss) Bearing N is a rigid surface. Bearing H Fcperp = 565psi. Members not listed have forces less than 375#

▲ Maximum Reactions (lbs)

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

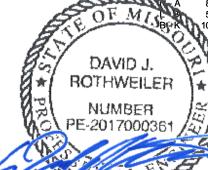
A - B 925 - 956 D-E 1878 - 2285 B - C 1458 - 2093 E-F 1397 - 1754 C-D 1459 - 2085

Maximum Bot Chord Forces Per Ply (lbs)

L-K 1091 -483 J-I 2615 -144	JIIOIUS	s ren	orus rens.comp. chorus	
	K (- J			2615 - 1446 1973 - 1391

Maximum Web Forces Per Ply (lbs)

	webs	rens.c	omp.	webs	rens.	comp.	
	A - L	1433	- 690	K-D	588	- 608	
223	N-A	842	- 763	D-I	507	- 385	
415	March 1	575	- 1044	I - E	480	- 178	
-(.)	B(-KV)	1092	- 495	E - H	1154	- 2020	
	KO,	<i>\</i>					



MO COA #2005000817

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WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING.

IMPORTANT FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

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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 lists in 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: aware org.



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-reinforcement or scab reinforcement.

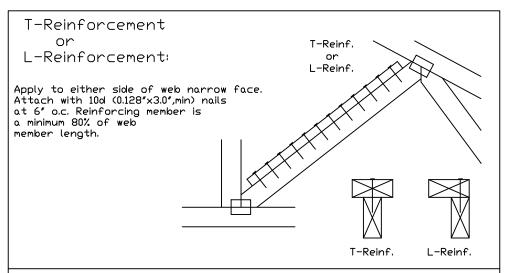
Alternative reinforcement specified in chart below may be conservative. For minimum alternative reinforcement, re-run design with appropriate reinforcement type.

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

Web Member	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(*/)

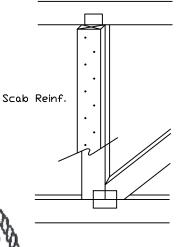
T-reinforcement, L-reinforcement, or scab reinforcement to be same species and grade or better than web member unless specified otherwise on Engineer's sealed design.

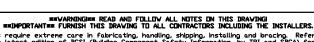
(**) Center scab on wide face of web. Apply (1) scab to each face of web.



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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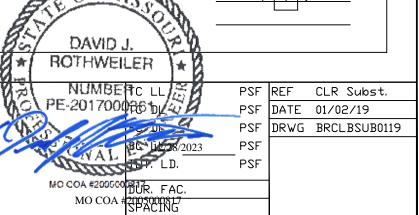
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155 Harlem Ave North Building, 4th Floor Glenview, IL 60025



Camber may be built into trusses to compensate for the vertical deflection that results from the application of loads. Providing camber has the following advantages:

- Helps to ensure level ceilings and floors after dead loads are applied.
- Facilitates drainage to avoid ponding on flat or low slope roofs.
- Compensates for different deflection characteristics between adjacent trusses.
- Improves appearance of garage door headers and other long spans that can appear to "sag."
- Avoids "dips" in roof ridgelines at the transition from the gable to adjacent clear span trusses.

In accordance with ANSI/TPI 1 the Building Designer, through the Construction Documents, shall provide the location, direction, and magnitude of all loads attributable to ponding that may occur due to the design of the roof drainage system. The Building Designer shall also specify any dead load, live load, and in-service creep deflection criteria for flat or low-slope roofs subject to ponding loads.

The amount of camber is dependent on the truss type, span, loading, application, etceteras.

More restrictive limits for allowable deflection and slenderness ratio (L/D) may be required to help control vibration.

The following tables are provided as guidelines for limiting deflection and estimating camber. Conditions or codes may exist that require exceeding these recommendations, or past experience may warrant using more stringent limitations.

Commentary: Deflection and Camber

L = Span of Truss (inches)

D = Depth of Truss at Deflection Point (inches)

Recommended Truss Deflection Limits

<u>Truss Type</u>	<u>L/D</u>	<u>Deflection Limits</u>		
		<u>Live Load</u>	<u>Total Load</u>	
Pitched Roof Trusses	24	L/240 (vertical)	L/180 (vertical)	
Floor of Room-In-Attic Trusses	24	L/360 (vertical)	L/240 (vertical)	
Flat or Shallow Pitched Roof Trusses	24	L/360 (vertical)	L/240 (vertical)	
Residential Floor Trusses	24	L/360 (vertical)	L/240 (vertical)	
Commercial Floor Trusses	20	L/480 (vertical)	L/240 (vertical)	
Scissors Trusses	24	0.75" (horizontal)	1.25" (horizontal)	

Truss Type Recommended Camber

Pitched Trusses 1.00 x Deflection from Actual Dead Load

Sloping Parallel 1.5 x Vertical Deflection from

Chord Trusses Actual Dead Load

(0.25 x Deflection from Live Load) + Floor Trusses

Actual Dead Load

Flat Roof Trusses (0.25 x Deflection from Live Load) +

(15) Design Dead Load Deflection)

Note: The actual seas load may be **C**ensiderably less than the design dead load.

> DAVID J. ROTHWEILER

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

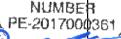
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IREF DEFLEC/CAMB DATE 10/01/14

DRWG DEFLCAMB1014

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