

MiTek USA, Inc. 16023 Swingley Ridge Rd Chesterfield, MO 63017 314-434-1200

Re: 210382 Lot 49 W2

The truss drawing(s) referenced below have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Wheeler - Waverly.

Pages or sheets covered by this seal: I48868473 thru I48868476

My license renewal date for the state of Missouri is December 31, 2021.

Missouri COA: Engineering 001193



November 19,2021

Sevier, Scott

,Engineer

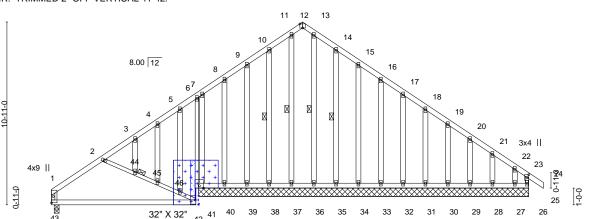
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

Job Truss Truss Type Qty Lot 49 W2 Units: 1.0 148868473 210382 E2 GABLE Eng: TH Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871

ID:bDljNJA6?5tiTk6El3KUKZyAkTB-yvvlc48?sYQ54l2gpAxfFqWa32WNhcAKfjNUBCyHfrT 3-1-12 8-9-8 15-0-0 28-6-0 29-4-8 0-10-8 3-1-12 5-7-12 6-2-8 13-6-0

REPAIR: TRIMMED 2" OFF VERTICAL 41-42.



3x4 =

INSTALL 2 X 4 SPF/DF/SP NO.2 CUT TO FIT TIGHT.

ATTACH 7/16" OSB GUSSET (7/16" RATED SHEATHING 24/16 EXP 1) TO ONE FACE OF TRUSS WITH (0.113" X 2") NAILS PER THE FOLLOWING NAIL SCHEDULE: 2 X 3'S - 2 ROWS, 2 X 4'S - 3 ROWS, 2 X 6'S AND LARGER - 4 ROWS: SPACED @ 2" O.C. INTO EACH COVERED TRUSS MEMBER. USE 2" MEMBER END DISTANCE.

28-6-0

		0-3-12	0-3-12			19-0-0			
Plate Offsets (X,Y) [12:0-2-0,Edge], [23:0-2-0,0-1-4]									
LOADING TCLL	G (psf) 25.0	SPACING- Plate Grip DOL	2-0-0 1.15	CSI. TC 0.46	DEFL. Vert(LL)	in (loc) I/defl -0.19 42-43 >552	L/d 360	PLATES MT20	GRIP 197/144
TCDL BCLL BCDL	10.0 0.0 * 10.0	Lumber DOL Rep Stress Incr Code IRC2018/TF	1.15 YES PI2014	BC 0.59 WB 0.23 Matrix-S	Horz(CT)	-0.38 42-43 >280 0.03 25 n/a 0.01 42-43 >999	240 n/a 240	Weight: 193 lb	FT = 10%

TOP CHORD

BOT CHORD

WEBS

JOINTS

LUMBER-BRACING-

8-9-8

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 *Except*

6-42: 2x3 SPF No.2

WEBS 2x3 SPF No.2

OTHERS 2x4 SPF No.2

REACTIONS. All bearings 19-8-8 except (jt=length) 43=0-3-8.

Max Horz 43=-285(LC 6) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 43, 25, 33, 38, 37, 36, 32, 31, 30, 29, 28, 27, 35, 34 except 40=-325(LC 8), 39=-154(LC 21), 26=-182(LC 9)

6x6 = 6x6 =

Max Grav All reactions 250 lb or less at joint(s) 25, 33, 39, 38, 37, 36, 32, 31, 30, 29, 28, 27, 35, 26, 34

except 43=385(LC 16), 40=716(LC 15)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-2=-420/129, 2-3=-262/144, 10-11=-173/270, 13-14=-148/252, 1-43=-289/92

BOT CHORD 42-43=-136/379

WEBS 2-44=-332/217, 44-45=-335/219, 45-46=-352/229, 42-46=-352/230

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable studs spaced at 1-4-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 43, 25, 33, 38, 37, 36, 32, 31, 30, 29, 28, 27, 35, 34 except (jt=lb) 40=325, 39=154, 26=182.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 6-0-0 oc purlins, except

10-37, 11-36, 13-35, 14-34

Rigid ceiling directly applied or 6-0-0 oc bracing, Except:

10-0-0 oc bracing: 42-43,41-42.

1 Row at midpt

1 Brace at Jt(s): 44

Scale = 1:68.8

November 19,2021



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Lot 49 W2 Units: 1.0 148868474 210382 E3 Roof Special Eng: TH Job Reference (optional)

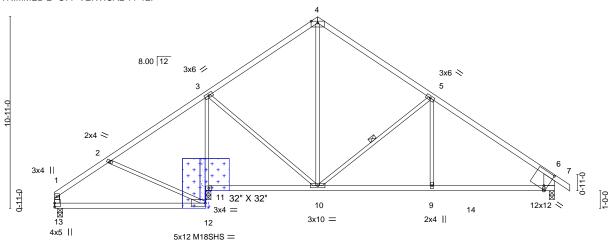
Wheeler Lumber, Waverly, KS 66871

B.430 s Aug 16 2021 MiTek Industries, Inc. Fri Nov 19 09:12:38 2021 Page 1 ID:bDIjNJA6?5tiTk6El3KUKZyAkTB-ekPqRFRcWj7K7OcXQ_v3ub6aLgfm6KMnJiKP8ZyHfsN 3-1-12 8-9-8 15-0-0 21-6-3 28-6-0 29-4-8 0-10-8 3-1-12 5-7-12 6-2-8 6-6-3 6-11-13

4x9 =

Scale = 1:65.7

REPAIR: TRIMMED 2" OFF VERTICAL 11-12.



INSTALL 2 X 4 SPF/DF/SP NO.2 CUT TO FIT TIGHT.

ATTACH 7/16" OSB GUSSET (7/16" RATED SHEATHING 24/16 EXP 1)

TO EACH FACE OF TRUSS WITH (0.131" X 2.5" MIN.) NAILS PER THÉ FOLLOWING NAIL SCHEDULE: 2 X 3'S - 2 ROWS, 2 X 4'S - 3 ROWS, 2 X 6'S AND LARGER - 4 ROWS: SPACED @ 4" O.C. NAILS TO BE DRIVEN FROM BOTH FACES. STAGGER SPACING FROM FRONT TO BACK FACE FOR A NET 2" O.C. SPACING IN EACH COVERED TRUSS MEMBER. USE 2" MEMBER END DISTANCE.

Plate Off	fsets (X,Y)	0-3-12 0-3-12 [8:0-2-7,0-9-7]	8-9-8 8-5-12	8-11-4 0-1-12	15-0-0 6-0-12		21-6-3 6-6-3		28-6 6-11		
LOADIN	VI /	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL TCDL	25.0 10.0	Plate Grip DOL Lumber DOL	1.15 1.15	TC BC	0.80 0.92	Vert(LL) Vert(CT)	-0.19 12-13 -0.37 12-13	>550 >276	360 240	MT20 M18SHS	197/144 197/144
BCLL BCDL	0.0 * 10.0	Rep Stress Incr Code IRC2018/	YES TPI2014	WB Matri	0.39 x-S	Horz(CT) Wind(LL)	-0.03 11 0.03 9-10	n/a >999	n/a 240	Weight: 110 lb	b FT = 10%

LUMBER-

2x4 SPF No.2 TOP CHORD **BOT CHORD** 2x4 SPF No.2 *Except*

3-12: 2x3 SPF No.2 WEBS 2x3 SPF No.2 *Except*

1-13: 2x4 SPF No.2, 6-8: 2x8 SP DSS

BRACING-TOP CHORD

WEBS

Structural wood sheathing directly applied or 4-1-14 oc purlins,

except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

6-0-0 oc bracing: 10-11. 1 Row at midpt

REACTIONS. (lb/size) 13=308/0-3-8, 11=1370/0-3-8, 8=929/0-3-8

Max Horz 13=-287(LC 6)

Max Uplift 13=-78(LC 9), 11=-235(LC 8), 8=-161(LC 9) Max Grav 13=422(LC 16), 11=1536(LC 15), 8=1062(LC 16)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-2=-398/173, 2-3=-238/264, 3-4=-686/235, 4-5=-644/200, 5-6=-1166/188,

1-13=-261/124, 6-8=-918/204

BOT CHORD 12-13=-147/342, 11-12=-29/289, 3-11=-1147/237, 9-10=-38/818, 9-14=-38/818,

8-14=-38/818

WEBS 2-12=-348/195, 3-10=0/569, 4-10=-107/265, 5-10=-604/241, 5-9=0/283

NOTES-

- 1) Unbalanced roof live loads have been considered for this design
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed: MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are MT20 plates unless otherwise indicated.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 78 lb uplift at joint 13, 235 lb uplift at joint 11 and 161 lb uplift at joint 8.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502 11 1 and R802 10 2 and referenced standard ANSI/TPI 1.



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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd Chesterfield, MO 63017

Job Truss Truss Type Qty Lot 49 W2 148868475 Units: 0.5 210382 E4 Roof Special 2 Eng: TH Job Reference (optional)
8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Nov 18 09:30:17 2021 Page 1

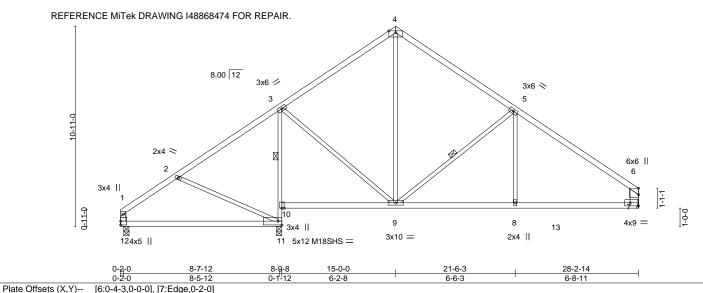
Wheeler Lumber, Waverly, KS - 66871,

ID:bDIjNJA6?5tiTk6El3KUKZyAkTB-2HePb6g1SJsZK58QHQjGf92SWCwf3HcLAq_1JYyI_hq

28-2-14 21-6-3 6-2-8 6-6-3 6-8-11

REPAIR: TRIMMED 2" OFF VERTICAL 11-12.

Scale = 1:62.8 4x9 =



LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.59	Vert(LL) -0.19 11-12 >536 360	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.81	Vert(CT) -0.39 11-12 >266 240	M18SHS 197/144
BCLL 0.0 *	Rep Stress Incr YES	WB 0.37	Horz(CT) -0.04 7 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.07 8-9 >999 240	Weight: 108 lb FT = 10%

LUMBER-

2x4 SPF No.2 TOP CHORD **BOT CHORD** 2x4 SPF No.2 *Except*

3-11: 2x3 SPF No.2 2x3 SPF No.2 *Except*

WEBS 1-12: 2x4 SPF No.2, 6-7: 2x6 SPF No.2 BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-10-9 oc purlins,

except end verticals.

BOT CHORD Rigid ceiling directly applied or 3-9-2 oc bracing. Except:

1 Row at midpt 3-10 **WEBS** 1 Row at midpt 5-9

REACTIONS. (size) 12=0-3-8, 7=Mechanical, 11=0-3-8

Max Horz 12=285(LC 5)

Max Uplift 12=-53(LC 9), 7=-123(LC 9), 11=-247(LC 8) Max Grav 12=377(LC 16), 7=954(LC 16), 11=1578(LC 15)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-330/137, 2-3=-198/319, 3-4=-649/219, 4-5=-607/183, 5-6=-1090/167,

6-7=-784/159

BOT CHORD 11-12=-151/295, 10-11=-1286/216, 3-10=-1184/248, 8-9=-56/768, 7-8=-56/768

WEBS 2-11=-358/197, 3-9=0/604, 5-9=-575/237, 5-8=0/254

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are MT20 plates unless otherwise indicated.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12 except (jt=lb) 7=123, 11=247.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 19,2021



Job Truss Truss Type Qty Lot 49 W2 148868476 Units: 0.5 210382 E5 Roof Special Eng: TH Job Reference (optional)
8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Nov 18 09:30:17 2021 Page 1 Wheeler Lumber,

Waverly, KS - 66871,

ID:bDljNJA6?5tiTk6El3KUKZyAkTB-2HePb6g1SJsZK58QHQjGf92SaCwm3HkLAq_1JYyl_hq

14-9-8 21-3-11 28-0-6 6-2-8 6-6-3 6-8-11

REPAIR: TRIMMED 2" OFF VERTICAL 11-12.

Scale = 1:62.8 4x9 =

Structural wood sheathing directly applied or 4-11-0 oc purlins,

Rigid ceiling directly applied or 3-9-3 oc bracing. Except:

3-10

5-9

except end verticals.

1 Row at midpt

1 Row at midpt

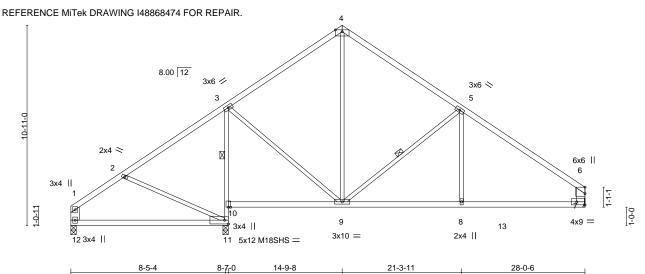


Plate Offsets (X,Y)--[6:0-4-3,0-0-0], [7:Edge,0-2-0] **PLATES GRIP** LOADING (psf) SPACING-CSI DEFL. in (loc) I/defl L/d 197/144 TCLL 25.0 Plate Grip DOL 1.15 TC 0.59 Vert(LL) -0.16 11-12 >611 360 MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.80 Vert(CT) -0.33 11-12 >303 240 M18SHS 197/144 **BCLL** 0.0 Rep Stress Incr YES WB 0.36 Horz(CT) -0.04 n/a n/a Code IRC2018/TPI2014 **BCDL** 10.0 Wind(LL) >999 240 Weight: 108 lb FT = 10% Matrix-S 0.05 8-9

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

REACTIONS.

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 *Except*

3-11: 2x3 SPF No.2 WEBS 2x3 SPF No.2 *Except* 1-12,6-7: 2x6 SPF No.2

(size) 12=0-3-8, 7=Mechanical, 11=0-3-8

Max Horz 12=229(LC 5) Max Uplift 12=-16(LC 4), 7=-21(LC 9), 11=-62(LC 8) Max Grav 12=339(LC 14), 7=940(LC 14), 11=1564(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-2=-271/92, 2-3=-145/311, 3-4=-628/124, 4-5=-594/103, 5-6=-1073/57, 6-7=-770/61

BOT CHORD 11-12=-123/253, 10-11=-1288/64, 3-10=-1185/97, 8-9=0/760, 7-8=0/760

2-11=-340/112, 3-9=0/617, 5-9=-562/129, 5-8=0/255 **WEBS**

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are MT20 plates unless otherwise indicated.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7, 11.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 19,2021

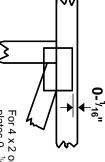


Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated.
Dimensions are in ft-in-sixteenths.
Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- ¹/16" from outside edge of truss.

This symbol indicates the required direction of slots in connector plates.

* Plate location details available in MiTek 20/20 software or upon request.

PLATE SIZE

4 × 4

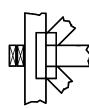
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING



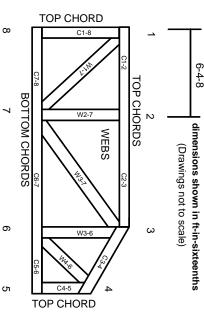
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only

Industry Standards:

National Design Specification for Metal Plate Connected Wood Truss Construction. Design Standard for Bracing.
Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

ANSI/TPI1: DSB-89:

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988 ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.

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- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other.

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- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

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Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber

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- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- 15. Connections not shown are the responsibility of others.
- Do not cut or alter truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- 20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.