



Truss Layout(s) & Calcs.

Provided For
Yavapai County

Home of my Own (2024)

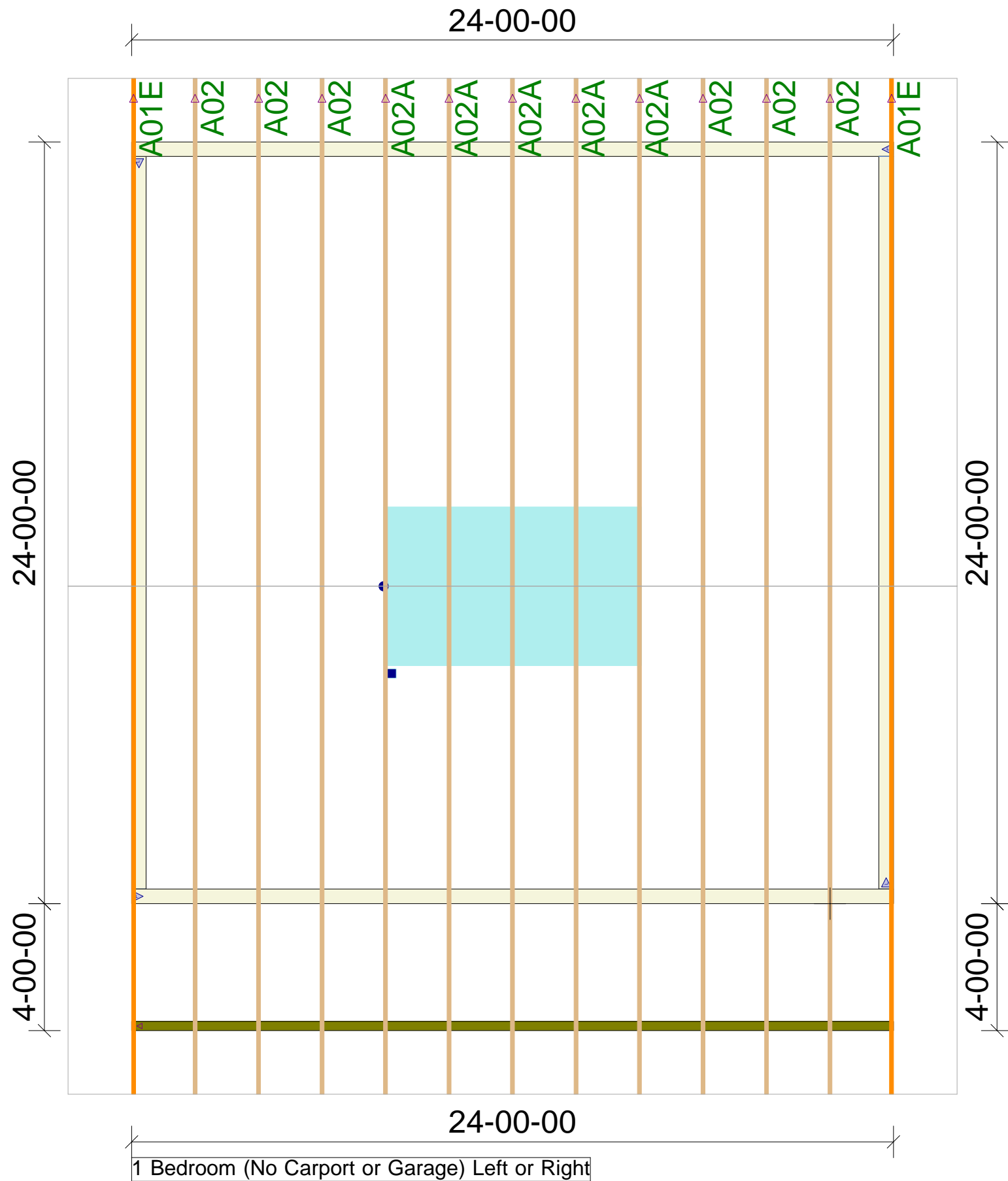
1 BDRM, carport, garage options, left and right

**REVIEWED FOR DESIGN
CRITERIA ONLY**

**SEE ATTACHED COVER SHEET FOR ALL
STAMPS. IT IS THE RESPONSIBILITY OF THE
OWNER/APPLICANT TO REVIEW AND
ACKNOWLEDGE APPLICABLE STAMPS.**

TRUSSES ALWAYS LABELLED BOTTOM LEFT END OF TRUSS, TRUSS LEFT END INDICATED ON LAYOUT WITH ◀

Reviewed for Design Criteria Only



1 Bedroom (No Carport or Garage) Left or Right



A Division of US

1493 N Tech Blvd
Gilbert AZ 85233
Phone: (480) 892-0025

Job #: 2510455-A

Customer: Prescott Home Center

Job Name: Home of my Own 2024
1 Bedroom

Subdivision: Lot:

Address: 1015 Fair Street

City, ST: Prescott, AZ

Drawn By: Anthony Gardner

Date Printed: 10/15/2025

Salesrep: Jon Cherry

Revision: #

General Notes

All trusses shall be installed in accordance with the latest edition Building Code and ANSI/TPI 1
Trusses must be handled, installed, braced, and restrained per BCSI.
Temporary and permanent bracing must be installed during erection to prevent collapse. Trusses are not stable until properly braced.
Any on-site alterations of trusses, or deviations from the layout will be deemed the sole responsibility of the contractor and framer. AZBS will assume no responsibility for any such modifications.
Notify the truss designer immediately of any conflicts between truss layout and actual field conditions.
Truss designs and placement plan are the property of AZBS and shall not be copied without written permission.
All truss to beam/ledger/wall connections to be reviewed/approved by EOR and are outside AZBS scope per TPI.
All dimensions are as follows:

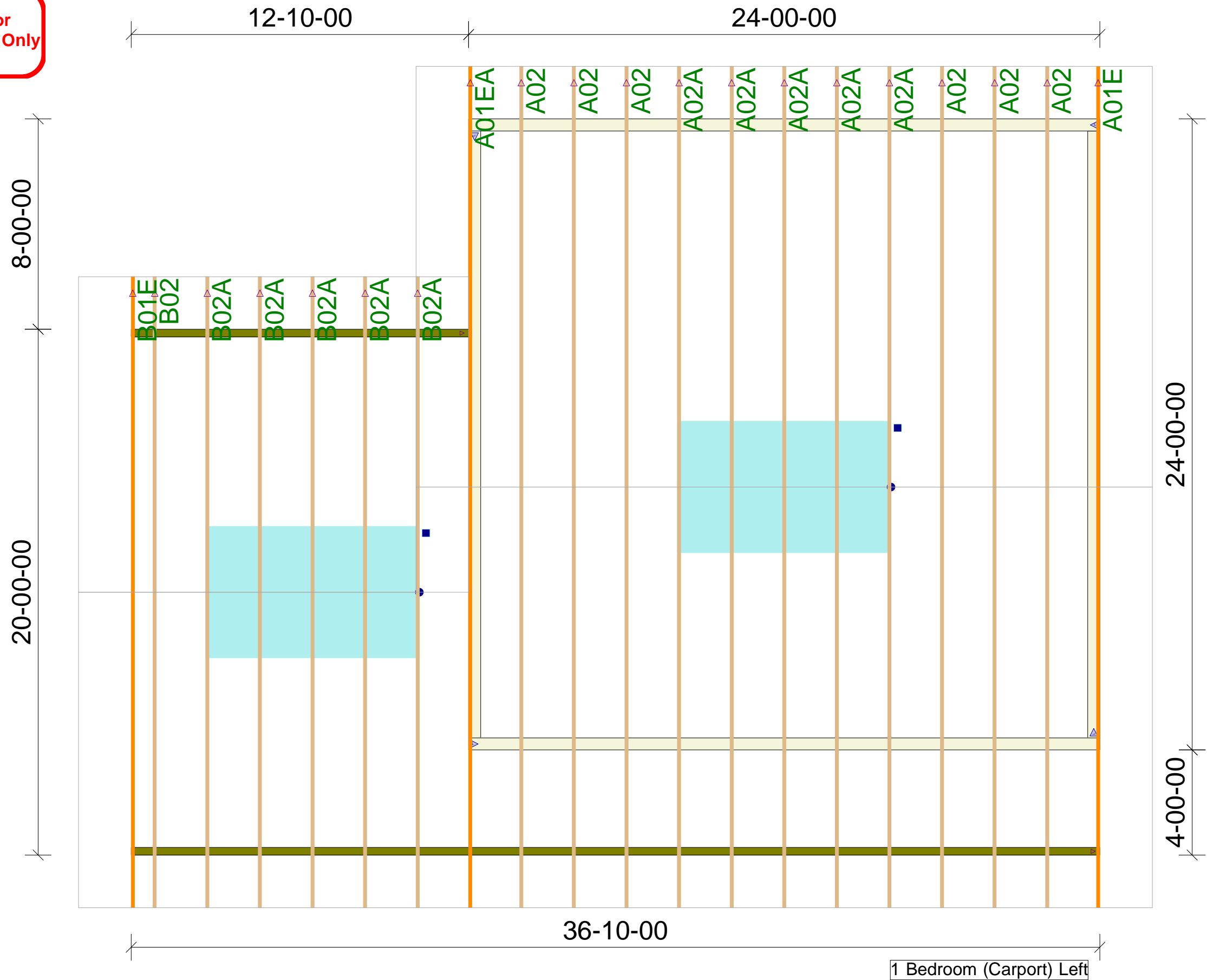
FT - IN - 16ths (3-6-9 = 3' 6 9/16")

JOB NOTES

1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

TRUSSES ALWAYS LABELLED BOTTOM LEFT END OF TRUSS, TRUSS LEFT END INDICATED ON LAYOUT WITH ◀

Reviewed for Design Criteria Only



A Division of US

1493 N Tech Blvd
Gilbert AZ 85233
Phone: (480) 892-0025

Job #: 2510455-A

Customer: Prescott Home Center

Job Name: Home of my Own 2024
1 Bedroom Carport L

Subdivision: Lot:

Address: 1015 Fair Street

City, ST: Prescott, AZ

Drawn By: Anthony Gardner

Date Printed: 10/15/2025

Salesrep: Jon Cherry

Revision: #

General Notes

All trusses shall be installed in accordance with the latest edition Building Code and ANSI/TPI 1

Trusses must be handled, installed, braced, and restrained per BCSI.

Temporary and permanent bracing must be installed during erection to prevent collapse. Trusses are not stable until properly braced.

Any on-site alterations of trusses, or deviations from the layout will be deemed the sole responsibility of the contractor and framer. AZBS will assume no responsibility for any such modifications.

Notify the truss designer immediately of any conflicts between truss layout and actual field conditions.

Truss designs and placement plan are the property of AZBS and shall not be copied without written permission.

All truss to beam/ledger/wall connections to be reviewed/approved by EOR and are outside AZBS scope per TPI.

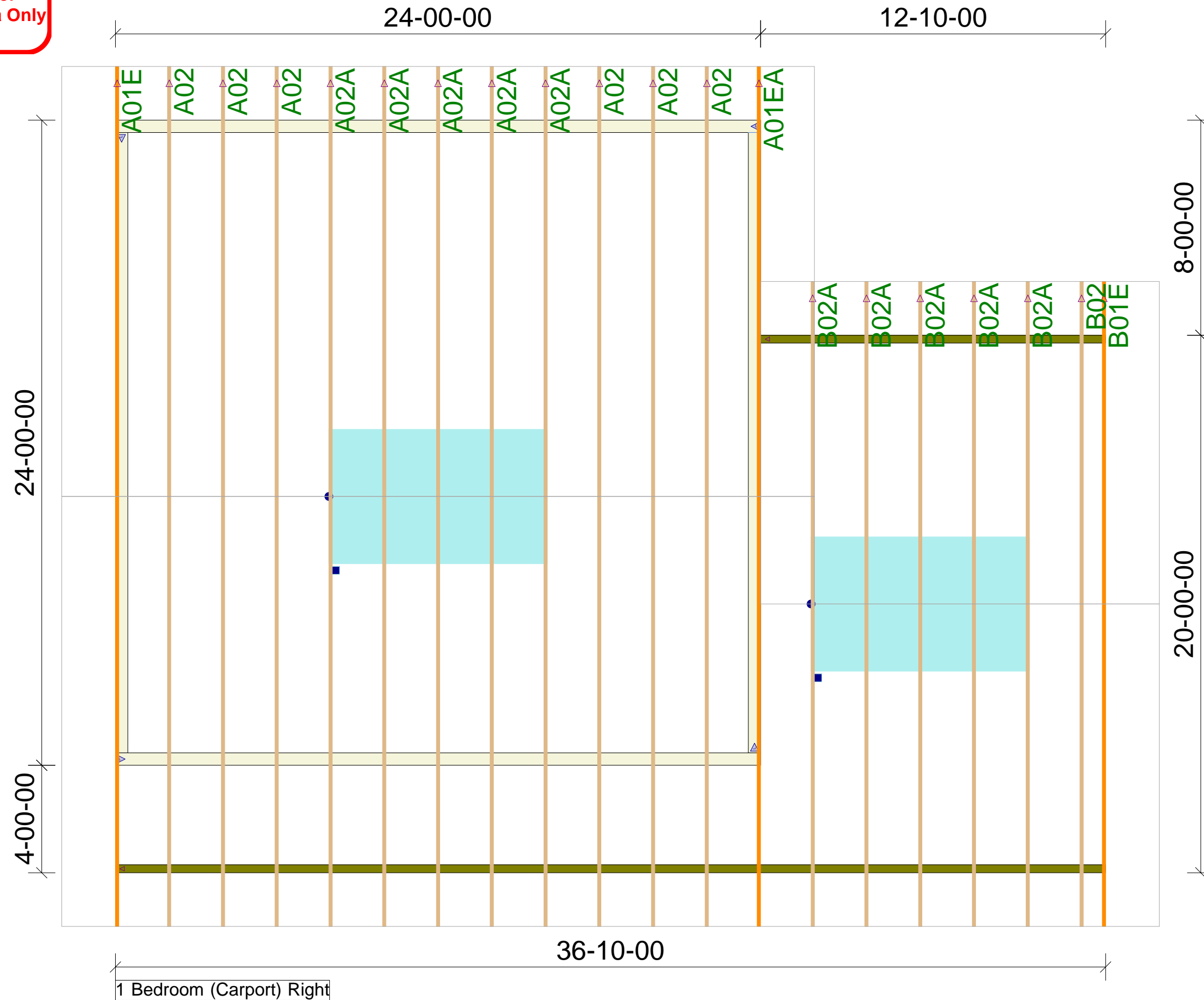
All dimensions are as follows:
FT - IN - 16ths (3-6-9 = 3' 6 9/16")

JOB NOTES

1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

TRUSSES ALWAYS LABELLED BOTTOM LEFT END OF TRUSS, TRUSS LEFT END INDICATED ON LAYOUT WITH ◀

Reviewed for Design Criteria Only



1 Bedroom (Carport) Right



A Division of US

1493 N Tech Blvd
Gilbert AZ 85233
Phone: (480) 892-0025

Job #: 2510455-A

Customer: Prescott Home Center

Job Name: Home of my Own 2024
1 Bedroom Carport R

Subdivision: Lot:

Address: 1015 Fair Street

City, ST: Prescott, AZ

Drawn By: Anthony Gardner

Date Printed: 10/15/2025

Salesrep: Jon Cherry

Revision: #

General Notes

All trusses shall be installed in accordance with the latest edition Building Code and ANSI/TPI 1

Trusses must be handled, installed, braced, and restrained per BCSI.

Temporary and permanent bracing must be installed during erection to prevent collapse. Trusses are not stable until properly braced.

Any on-site alterations of trusses, or deviations from the layout will be deemed the sole responsibility of the contractor and framer. AZBS will assume no responsibility for any such modifications.

Notify the truss designer immediately of any conflicts between truss layout and actual field conditions.

Truss designs and placement plan are the property of AZBS and shall not be copied without written permission.

All truss to beam/ledger/wall connections to be reviewed/approved by EOR and are outside AZBS scope per TPI.

All dimensions are as follows:

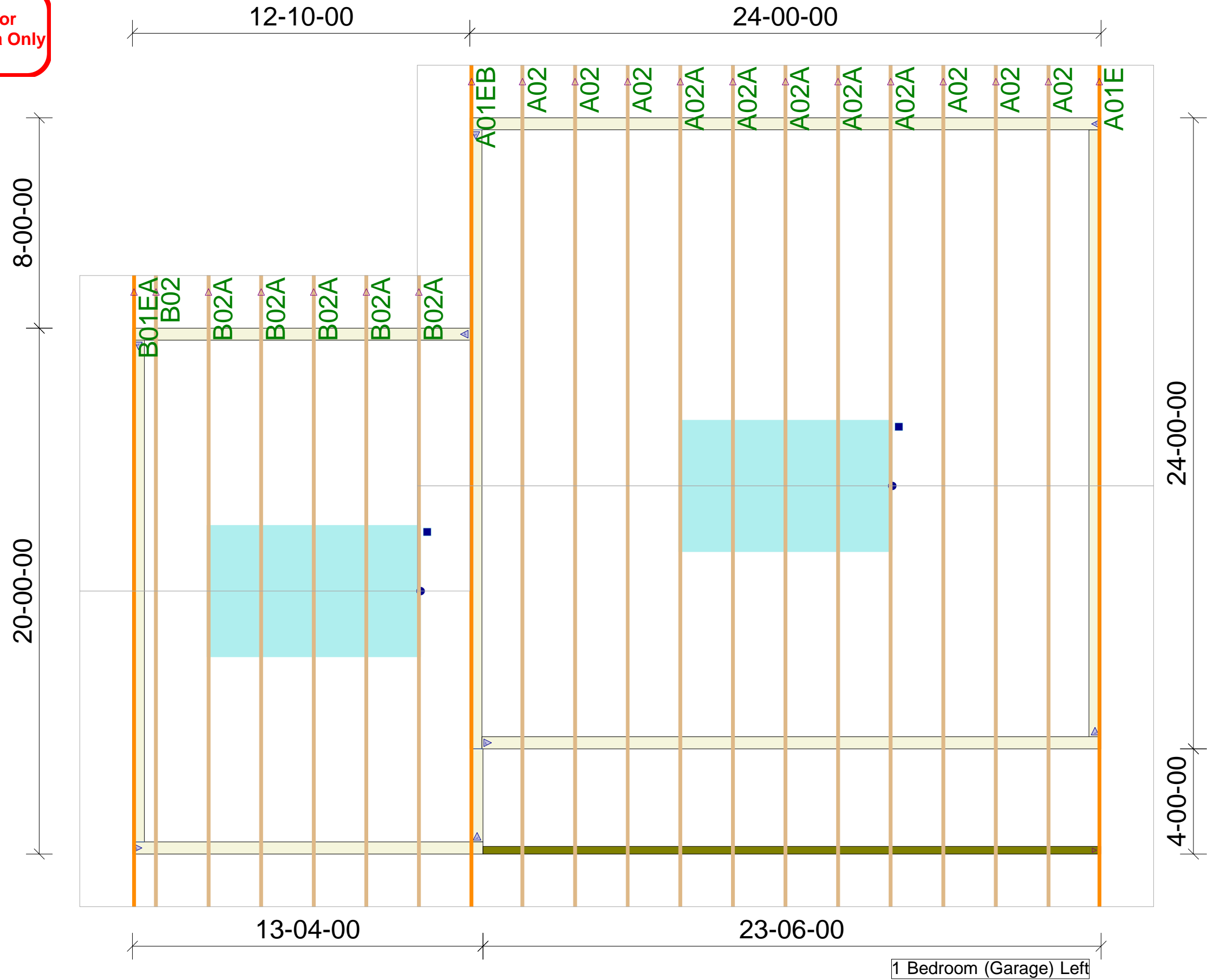
FT - IN - 16ths (3-6-9 = 3' 6 9/16")

JOB NOTES

1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

TRUSSES ALWAYS LABELLED BOTTOM LEFT END OF TRUSS, TRUSS LEFT END INDICATED ON LAYOUT WITH ◀

Reviewed for
Design Criteria Only



1 Bedroom (Garage) Left



A Division of US

1493 N Tech Blvd
Gilbert AZ 85233
Phone: (480) 892-0025

Job #: 2510455-A

Customer: Prescott Home Center

Job Name: Home of my Own 2024
1 Bedroom Garage L

Subdivision: Lot:

Address: 1015 Fair Street

City, ST: Prescott, AZ

Drawn By: Anthony Gardner

Date Printed: 10/15/2025

Salesrep: Jon Cherry

Revision: #

General Notes

All trusses shall be installed in accordance with the latest edition Building Code and ANSI/TPI 1
Trusses must be handled, installed, braced, and restrained per BCSI.
Temporary and permanent bracing must be installed during erection to prevent collapse. Trusses are not stable until properly braced.
Any on-site alterations of trusses, or deviations from the layout will be deemed the sole responsibility of the contractor and framer. AZBS will assume no responsibility for any such modifications.
Notify the truss designer immediately of any conflicts between truss layout and actual field conditions.
Truss designs and placement plan are the property of AZBS and shall not be copied without written permission.
All truss to beam/ledger/wall connections to be reviewed/approved by EOR and are outside AZBS scope per TPI.
All dimensions are as follows:

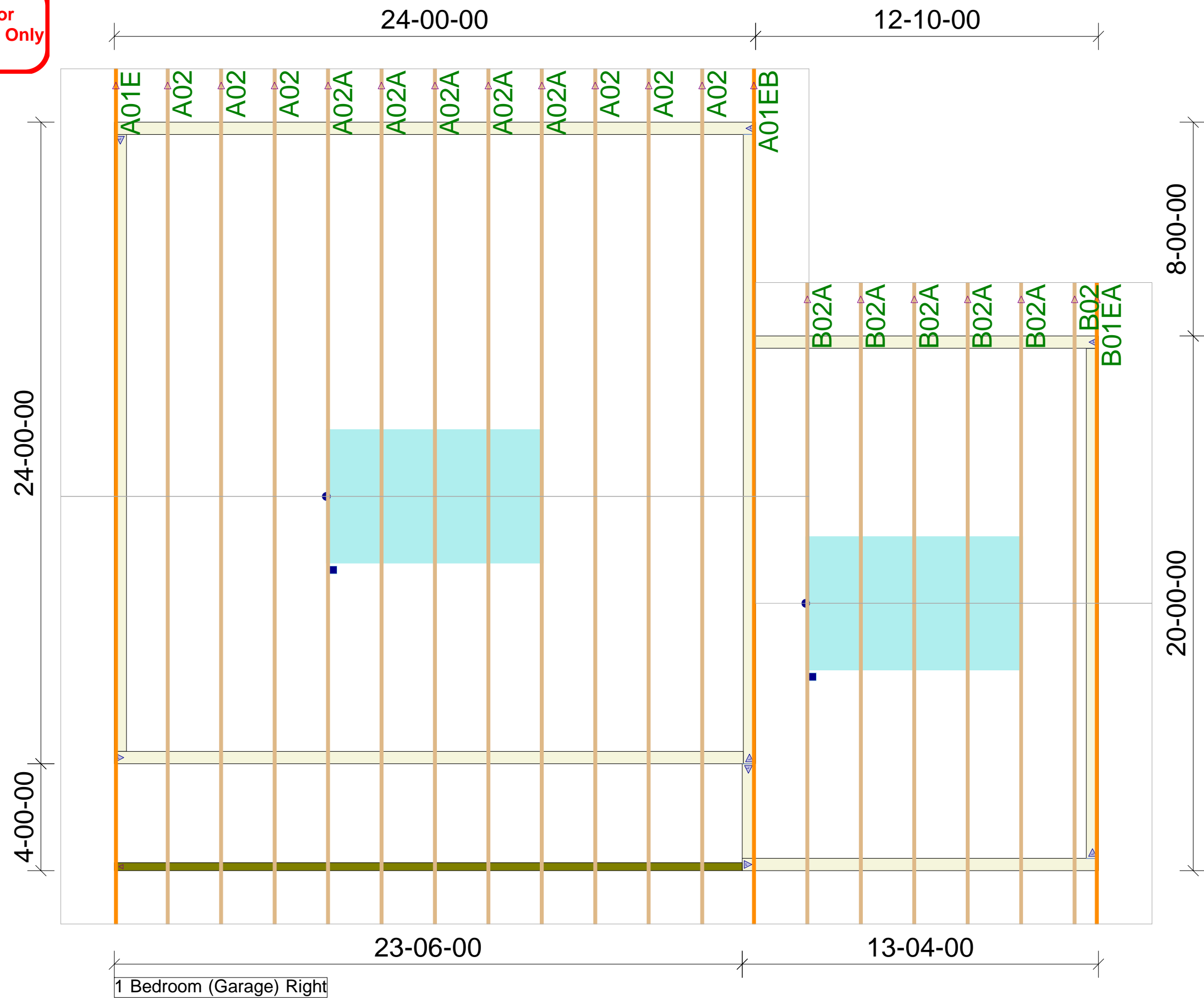
FT - IN - 16ths (3-6-9 = 3' 6 9/16")

JOB NOTES

1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

TRUSSES ALWAYS LABELLED BOTTOM LEFT END OF TRUSS, TRUSS LEFT END INDICATED ON LAYOUT WITH ◀

Reviewed for Design Criteria Only



1 Bedroom (Garage) Right



A Division of US

1493 N Tech Blvd
Gilbert AZ 85233
Phone: (480) 892-0025

Job #: 2510455-A

Customer: Prescott Home Center

Job Name: Home of my Own 2024
1 Bedroom Garage R

Subdivision: Lot:

Address: 1015 Fair Street

City, ST: Prescott, AZ

Drawn By: Anthony Gardner

Date Printed: 10/15/2025

Salesrep: Jon Cherry

Revision: #

General Notes

All trusses shall be installed in accordance with the latest edition Building Code and ANSI/TPI 1
Trusses must be handled, installed, braced, and restrained per BCSI.
Temporary and permanent bracing must be installed during erection to prevent collapse. Trusses are not stable until properly braced.
Any on-site alterations of trusses, or deviations from the layout will be deemed the sole responsibility of the contractor and framer. AZBS will assume no responsibility for any such modifications.
Notify the truss designer immediately of any conflicts between truss layout and actual field conditions.
Truss designs and placement plan are the property of AZBS and shall not be copied without written permission.
All truss to beam/ledger/wall connections to be reviewed/approved by EOR and are outside AZBS scope per TPI.
All dimensions are as follows:
FT - IN - 16ths (3-6-9 = 3' 6 9/16")

JOB NOTES

1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

Re: 2510455-A
Home of My Own Project

The truss drawing(s) referenced below have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by US LBM AZBS Gilbert Truss (Gilbert, AZ).

Pages or sheets covered by this seal: R90743841 thru R90743849

My license renewal date for the state of Arizona is December 31, 2025.

Arizona COA: 11906-0

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



EXPIRES 12/31/2025

**REVIEWED FOR DESIGN
CRITERIA ONLY**

SEE ATTACHED COVER SHEET FOR ALL
STAMPS. IT IS THE RESPONSIBILITY OF THE
OWNER/APPLICANT TO REVIEW AND
ACKNOWLEDGE APPLICABLE STAMPS.

October 15, 2025

Zhao, Xiaoming

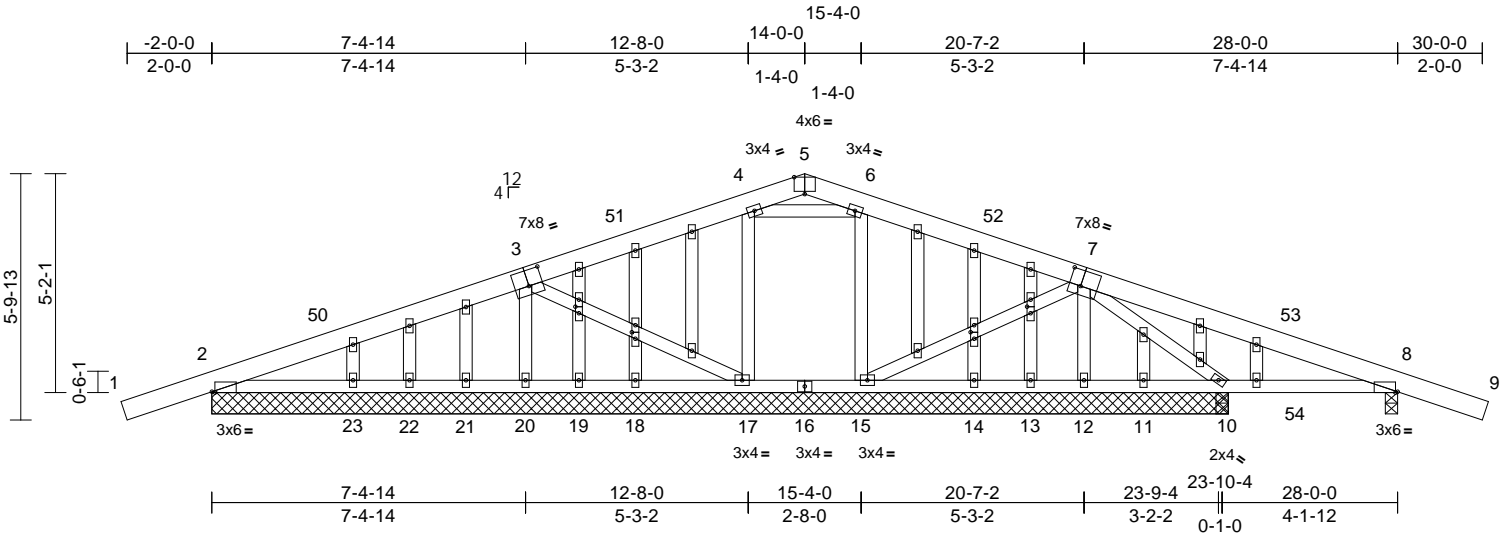
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which 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 2510455-A	Truss A01E	Truss Type Common Structural Gable	Qty 6	Ply 1	Home of My Own Project Job Reference (optional)	Reviewed for Design Criteria Only R90743841
------------------	---------------	---------------------------------------	----------	----------	----------------------------------------------------	------------------------------------------------

US LBM AZBS Gilbert Truss (Gilbert, AZ), Gilbert, AZ - 85233,

Run: 25.30 S Oct 2 2025 Print: 25.3.0 S Oct 2 2025 MiTek Industries, Inc. Tue Oct 14 11:35:18
ID:bBS9LtSgyzybYK5Fg9pRZyTWfc?PsB70Hq3NSgPqnL8w3uITxGkWrCdoi7J4zJC?F

Page: 1



Scale = 1:54.4
Plate Offsets (X, Y): [2:0-0-14,Edge], [3:0-4-0,0-4-8], [5:0-3-0,Edge], [7:0-3-4,0-4-8], [8:0-0-10,Edge], [26:0-1-14,0-1-0], [28:0-1-14,0-1-0], [36:0-1-14,0-1-0], [38:0-1-14,0-1-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	-0.02	10-46	>999	360	MT20	203/168
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.49	Vert(CT)	-0.03	10-46	>999	240		
TCDL	14.0	Rep Stress Incr	YES	WB	0.19	Horz(CT)	0.00	10	n/a	n/a		
BCLL	0.0*	Code	IRC2024/TPI2022	Matrix-MS								
BCDL	10.0											
												Weight: 156 lb FT = 20%

LUMBER
TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x4 HF/SPF No.2
WEBS 2x4 HF/SPF Stud/Std
OTHERS 2x4 HF/SPF Stud/Std

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 15-17,8-10.

REACTIONS (size)
2=24-0-0, 8=0-3-8, 10=0-3-8, 11=24-0-0, 12=24-0-0, 13=24-0-0, 14=24-0-0, 15=24-0-0, 17=24-0-0, 18=24-0-0, 19=24-0-0, 20=24-0-0, 21=24-0-0, 22=24-0-0, 23=24-0-0
Max Horiz 2=-65 (LC 12)
Max Uplift 2=-139 (LC 14), 8=-136 (LC 14), 11=-96 (LC 28), 12=-87 (LC 14), 15=-43 (LC 14), 17=-42 (LC 14), 20=-91 (LC 14), 22=-86 (LC 19)
Max Grav 2=517 (LC 19), 8=551 (LC 20), 10=295 (LC 28), 11=37 (LC 18), 12=783 (LC 20), 13=36 (LC 21), 14=90 (LC 5), 15=560 (LC 20), 17=564 (LC 19), 18=89 (LC 5), 19=41 (LC 21), 20=748 (LC 19), 21=75 (LC 3), 22=37 (LC 18), 23=242 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/92, 2-4=-232/288, 4-5=-16/64, 5-6=-12/69, 6-8=-239/296, 8-9=0/92

BOT CHORD 2-23=-236/137, 22-23=0/131, 21-22=0/131, 20-21=0/131, 19-20=0/133, 18-19=0/133, 17-18=0/133, 15-17=-32/87, 14-15=0/151, 13-14=0/151, 12-13=0/151, 11-12=0/149, 10-11=0/149, 8-10=-241/150
WEBS 3-20=-728/119, 7-12=-728/120, 7-10=-31/60, 6-15=-430/108, 4-17=-440/103, 3-17=-156/73, 7-15=-171/72, 4-6=-63/133

- NOTES**
- 1) Wind: ASCE 7-22; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=28ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -2-0-14 to 0-9-12, Zone1 0-9-12 to 14-0-0, Zone2 14-0-0 to 18-2-15, Zone1 18-2-15 to 30-0-14 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) 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.
 - 3) TCLL: ASCE 7-22; Pf=40.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; W2=0.55
 - 4) Unbalanced snow loads have been considered for this design.
 - 5) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
 - 6) All plates are 2x4 (||) MT20 unless otherwise indicated.
 - 7) Gable studs spaced at 1-4-0 oc.
 - 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 136 lb uplift at joint 8, 139 lb uplift at joint 2, 91 lb uplift at joint 20, 87 lb uplift at joint 12, 43 lb uplift at joint 15, 42 lb uplift at joint 17, 86 lb uplift at joint 22, 96 lb uplift at joint 11 and 139 lb uplift at joint 2.
- 11) Install all permanent bracing per project-specific bracing requirements, designed by others, or per industry standard details.

LOAD CASE(S) Standard



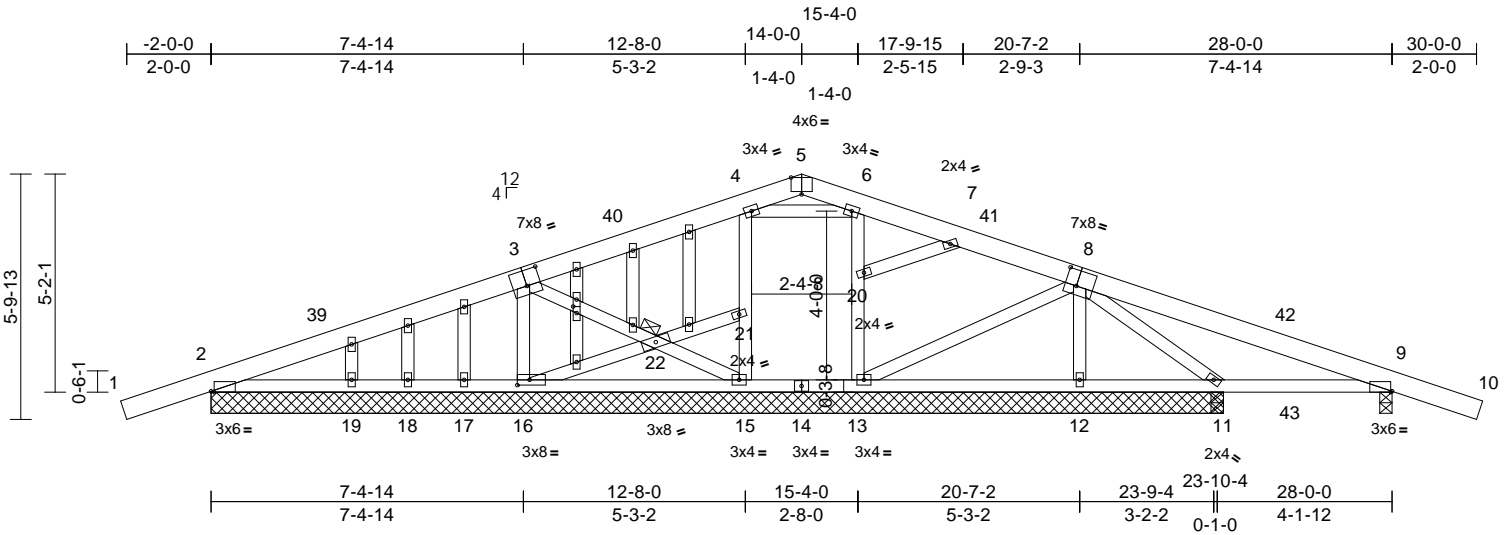
EXPIRES: 12/31/2025
October 15, 2025

Job 2510455-A	Truss A01EA	Truss Type Common Structural Gable	Qty 2	Ply 1	Home of My Own Project Job Reference (optional)	Reviewed for Design Criteria Only R90743842
------------------	----------------	---------------------------------------	----------	----------	----------------------------------------------------	------------------------------------------------

US LBM AZBS Gilbert Truss (Gilbert, AZ), Gilbert, AZ - 85233,

Run: 25.30 S Oct 2 2025 Print: 25.3.0 S Oct 2 2025 MiTek Industries, Inc. Tue Oct 14 11:35:19
ID:REVQacy4WNis2X8HVZv7?wyTWdf-RfC?PsB70Hq3NSgPqL8w3uITxBGKwRcDoi7J4zJC7f

Page: 1



Scale = 1:54.6

Plate Offsets (X, Y): [2:0-0-14,Edge], [3:0-4-0,0-4-8], [5:0-3-0,Edge], [8:0-3-4,0-4-8], [9:0-0-6,Edge], [16:0-3-8,0-1-8], [27:0-1-14,0-1-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (Roof Snow = 40.0)	40.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	-0.02	11-38	>999	360	MT20	203/168
TCDL	14.0	Lumber DOL	1.15	BC	0.52	Vert(CT)	-0.04	12-13	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.19	Horz(CT)	0.00	11	n/a	n/a		
BCDL	10.0	Code	IRC2024/TPI2022	Matrix-MS								
											Weight: 149 lb	FT = 20%

LUMBER	
TOP CHORD	2x6 SPF 1650F 1.5E
BOT CHORD	2x4 HF/SPF No.2
WEBS	2x4 HF/SPF Stud/Std
OTHERS	2x4 HF/SPF Stud/Std
BRACING	
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 13-15,9-11.
JOINTS	1 Brace at Jt(s): 22
REACTIONS (size)	
	2=24-0-0, 9=0-3-8, 11=0-3-8, 12=24-0-0, 13=24-0-0, 15=24-0-0, 16=24-0-0, 17=24-0-0, 18=24-0-0, 19=24-0-0
Max Horiz	2=-65 (LC 12)
Max Uplift	2=-139 (LC 14), 9=-136 (LC 14), 12=42 (LC 14), 13=-28 (LC 14), 15=-29 (LC 14), 16=-45 (LC 14), 17=-27 (LC 5), 18=-73 (LC 19)
Max Grav	2=517 (LC 19), 9=558 (LC 20), 11=229 (LC 28), 12=801 (LC 20), 13=587 (LC 20), 15=586 (LC 19), 16=828 (LC 19), 17=8 (LC 19), 18=50 (LC 18), 19=237 (LC 3)
FORCES (lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/92, 2-4=-232/288, 4-5=-17/62, 5-6=-12/67, 6-7=-39/100, 7-9=-245/296, 9-10=0/92
BOT CHORD	2-19=-236/137, 18-19=0/132, 17-18=0/132, 16-17=0/132, 15-16=0/132, 13-15=-32/87, 12-13=0/155, 11-12=0/153, 9-11=-241/150

WEBS	
3-16	=-728/119, 8-12=-728/119, 8-11=-31/66, 13-20=-429/107, 6-20=-424/105, 15-21=-441/104, 4-21=-440/104, 3-22=-156/73, 15-22=-155/73, 8-13=-169/70, 4-6=-62/131, 7-20=-14/8, 21-22=0/2, 16-22=0/3

- NOTES**
- 1) Wind: ASCE 7-22; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=28ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -2-0-14 to 0-9-12, Zone1 0-9-12 to 14-0-0, Zone2 14-0-0 to 18-2-15, Zone1 18-2-15 to 30-0-14 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) 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.
 - 3) TCLL: ASCE 7-22; Pf=40.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; W2=0.55
 - 4) Unbalanced snow loads have been considered for this design.
 - 5) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
 - 6) All plates are 2x4 (||) MT20 unless otherwise indicated.
 - 7) Gable studs spaced at 1-4-0 oc.
 - 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 139 lb uplift at joint 2, 45 lb uplift at joint 16, 42 lb uplift at joint 12, 136 lb uplift at joint 9, 28 lb uplift at joint 13, 29 lb uplift at joint 15, 27 lb uplift at joint 17, 73 lb uplift at joint 18 and 139 lb uplift at joint 2.
- 11) Install all permanent bracing per project-specific bracing requirements, designed by others, or per industry standard details.

LOAD CASE(S) Standard



EXPIRES: 12/31/2025
October 15, 2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

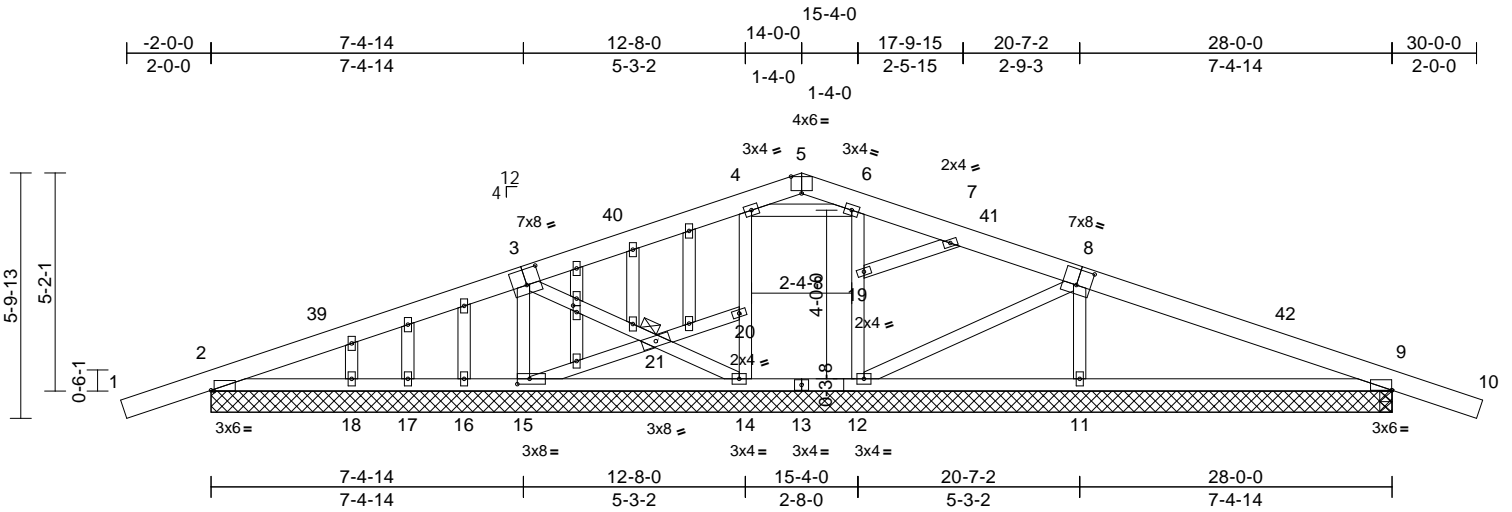
MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

Job 2510455-A	Truss A01EB	Truss Type Common Structural Gable	Qty 2	Ply 1	Home of My Own Project Job Reference (optional)	Reviewed for Design Criteria Only R90743843
------------------	----------------	---------------------------------------	----------	----------	----------------------------------------------------	------------------------------------------------

US LBM AZBS Gilbert Truss (Gilbert, AZ), Gilbert, AZ - 85233,

Run: 25.30 S Oct 2 2025 Print: 25.3.0 S Oct 2 2025 MiTek Industries, Inc. Tue Oct 14 11:35:19
ID:qVzL3fOPiPYiKtXpyGUfYTWe2-RfC?PsB70Hq3NSgPqnL8w3uITxBGKwRcDoi7J4zJC7f

Page: 1



Scale = 1:54.6

Plate Offsets (X, Y): [2:0-0-14,Edge], [3:0-4-0,0-4-8], [5:0-3-0,Edge], [8:0-4-0,0-4-8], [9:0-0-2,Edge], [15:0-3-8,0-1-8], [26:0-1-14,0-1-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (Roof Snow = 40.0)	40.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	-0.06	11-38	>999	360	MT20	208/172
TCDL	14.0	Lumber DOL	1.15	BC	0.39	Vert(CT)	-0.12	11-38	>744	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.00	11	n/a	n/a		
BCDL	10.0	Code	IRC2024/TPI2022	Matrix-MS								
											Weight: 144 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x4 HF/SPF No.2
WEBS 2x4 HF/SPF Stud/Std
OTHERS 2x4 HF/SPF Stud/Std

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 12-14.

JOINTS
1 Brace at Jt(s): 21

REACTIONS (size)
2=28-0-0, 9=0-3-8, 11=28-0-0,
12=28-0-0, 14=28-0-0, 15=28-0-0,
16=28-0-0, 17=28-0-0, 18=28-0-0
Max Horiz 2=65 (LC 13)
Max Uplift 2=-138 (LC 14), 9=-126 (LC 14),
11=-29 (LC 14), 12=-35 (LC 14),
14=28 (LC 14), 15=-44 (LC 14),
16=-25 (LC 5), 17=-73 (LC 19)
Max Grav 2=518 (LC 19), 9=625 (LC 20),
11=903 (LC 20), 12=549 (LC 20),
14=592 (LC 19), 15=831 (LC 19),
16=10 (LC 19), 17=50 (LC 18),
18=237 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/92, 2-4=-236/288, 4-5=-25/48,
5-6=-21/56, 6-7=-52/91, 7-9=-272/274,
9-10=0/92
BOT CHORD 2-18=-236/137, 17-18=0/135, 16-17=0/135,
15-16=0/135, 14-15=0/135, 12-14=-26/95,
11-12=0/200, 9-11=-235/198

WEBS
3-15=-733/115, 8-11=-746/119,
12-19=-404/111, 6-19=-401/108,
14-20=-442/105, 4-20=-441/105,
3-21=-149/78, 14-21=-148/79, 8-12=-208/64,
4-6=-58/130, 7-19=-9/9, 20-21=0/2,
15-21=0/2

- NOTES**
- 1) Wind: ASCE 7-22; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=28ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -2-0-14 to 0-9-12, Zone1 0-9-12 to 14-0-0, Zone2 14-0-0 to 18-2-15, Zone1 18-2-15 to 30-0-14 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) 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.
 - 3) TCLL: ASCE 7-22; Pf=40.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; W2=0.55
 - 4) Unbalanced snow loads have been considered for this design.
 - 5) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
 - 6) All plates are 2x4 (||) MT20 unless otherwise indicated.
 - 7) Gable studs spaced at 1-4-0 oc.
 - 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 138 lb uplift at joint 2, 44 lb uplift at joint 15, 29 lb uplift at joint 11, 35 lb uplift at joint 12, 28 lb uplift at joint 14, 25 lb uplift at joint 16, 73 lb uplift at joint 17, 126 lb uplift at joint 9 and 138 lb uplift at joint 2.

11) Install all permanent bracing per project-specific bracing requirements, designed by others, or per industry standard details.

LOAD CASE(S) Standard



EXPIRES: 12/31/2025
October 15, 2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

MiTek®

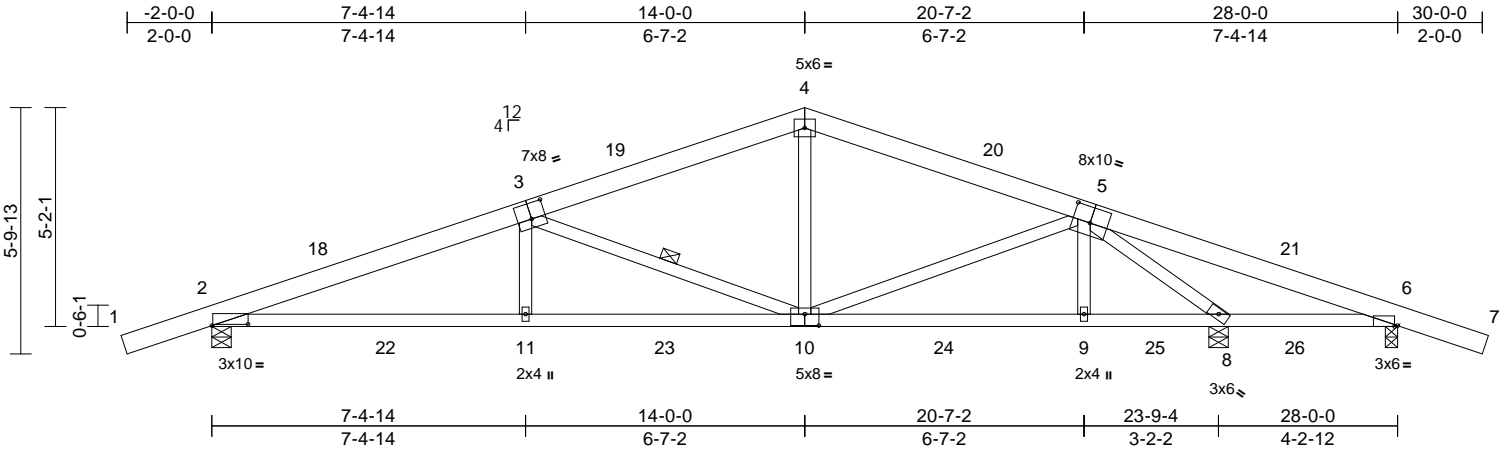
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

Job 2510455-A	Truss A02	Truss Type Common	Qty 30	Ply 1	Home of My Own Project Job Reference (optional)	Reviewed for Design Criteria Only R90743844
------------------	--------------	----------------------	-----------	----------	----------------------------------------------------	---------------------------------------------

US LBM AZBS Gilbert Truss (Gilbert, AZ), Gilbert, AZ - 85233,

Run: 25.30 S Oct 2 2025 Print: 25.3.0 S Oct 2 2025 MiTek Industries, Inc. Tue Oct 14 11:35:20
ID:Mm3UiAmreZkH959w85kbOSyTWmy-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKwRcDoi7J4zJC?#

Page: 1



Scale = 1:54.4
Plate Offsets (X, Y): [2:0-10-4,0-0-6], [3:0-4-0,0-4-8], [5:0-5-0,0-4-8], [6:0-0-14,Edge], [10:0-4-0,0-3-4]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (Roof Snow = 40.0)	40.0	Plate Grip DOL	1.15	TC	0.39	Vert(LL)	-0.12	10-11	>999	360	MT20	203/168
TCDL	14.0	Lumber DOL	1.15	BC	0.82	Vert(CT)	-0.20	10-11	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	1.00	Horz(CT)	0.06	8	n/a	n/a		
BCDL	10.0	Code	IRC2024/TPI2022	Matrix-MS								
											Weight: 123 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 2100F 1.8E
WEBS 2x4 HF/SPF Stud/Std

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-9-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 6-8.
WEBS 1 Row at midpt 3-10

REACTIONS (size) 2=0-5-8, 6=0-3-8, 8=0-5-8
Max Horiz 2=-65 (LC 12)
Max Uplift 2=-175 (LC 14), 6=-109 (LC 14), 8=-92 (LC 14)
Max Grav 2=1605 (LC 19), 6=341 (LC 18), 8=1820 (LC 20)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/92, 2-4=-3187/319, 4-6=-1664/765, 6-7=0/92
BOT CHORD 2-11=-205/2931, 9-11=-208/2928, 8-9=-116/1463, 6-8=-677/206
WEBS 3-11=0/307, 3-10=-1504/166, 4-10=0/508, 5-10=-76/582, 5-9=0/308, 5-8=-2565/269

- TCLL: ASCE 7-22; Pf=40.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; W2=0.55
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 175 lb uplift at joint 2, 92 lb uplift at joint 8 and 109 lb uplift at joint 6.
- Install all permanent bracing per project-specific bracing requirements, designed by others, or per industry standard details.

LOAD CASE(S) Standard

NOTES
1) Wind: ASCE 7-22; Vult=115mph (3-second gust)
Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft;
B=45ft; L=28ft; eave=4ft; Cat. II; Exp C; Enclosed;
MWFRS (directional) and C-C Zone3 -2-0-14 to 0-9-12, Zone1 0-9-12 to 14-0-0, Zone2 14-0-0 to 18-2-15, Zone1 18-2-15 to 30-0-14 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown;
Lumber DOL=1.60 plate grip DOL=1.60



EXPIRES: 12/31/2025
October 15, 2025

Job 2510455-A	Truss A02A	Truss Type Common	Qty 25	Ply 1	Home of My Own Project Job Reference (optional)	Reviewed for Design Criteria Only R90743845
------------------	---------------	----------------------	-----------	----------	----------------------------------------------------	------------------------------------------------

US LBM AZBS Gilbert Truss (Gilbert, AZ), Gilbert, AZ - 85233,

Run: 25.30 S Oct 2 2025 Print: 25.3.0 S Oct 2 2025 MiTek Industries, Inc. Tue Oct 14 11:35:20
ID:U4wg82X?7aEoCr2DuXtc_yyTWly-RfC?PsB70Hq3NSgPqnL8w3uITxBGKWrCDoi7J4zJC?f

Page: 1

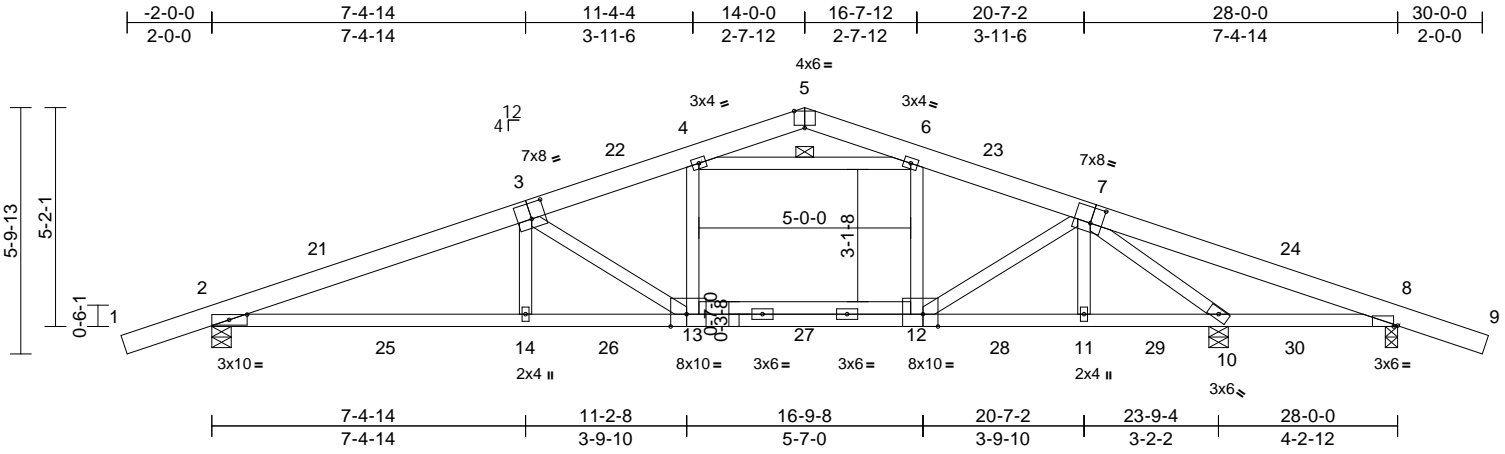


Plate Offsets (X, Y): [2:0-5-2,0-1-8], [3:0-4-0,0-4-8], [5:0-3-0,Edge], [7:0-3-4,0-4-8], [8:0-1-2,Edge], [12:0-4-4,Edge], [13:0-4-8,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (Roof Snow = 40.0)	40.0	Plate Grip DOL	1.15	TC	0.47	Vert(LL)	-0.28	13-14	>999	360	MT20	203/168
TCDL	14.0	Lumber DOL	1.15	BC	0.81	Vert(CT)	-0.44	13-14	>654	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	1.00	Horz(CT)	0.08	8	n/a	n/a		
BCDL	10.0	Code	IRC2024/TPI2022	Matrix-MS								
											Weight: 133 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 2100F 1.8E *Except*
13-12,13-12:2x4 HF/SPF No.2
WEBS 2x4 HF/SPF Stud/Std

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-5-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 8-10.
WEBS 1 Row at midpt 4-6

REACTIONS (size) 2=0-5-8, 8=0-3-8, 10=0-5-8
Max Horiz 2=-65 (LC 12)
Max Uplift 2=-95 (LC 14), 8=-136 (LC 14)
Max Grav 2=1767 (LC 19), 8=478 (LC 1), 10=1872 (LC 20)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/92, 2-4=-3686/91, 4-5=-614/67, 5-6=-735/73, 6-8=-2411/573, 8-9=0/92
BOT CHORD 2-14=0/3401, 11-14=0/3398, 10-11=0/1653, 8-10=-417/546
WEBS 7-11=-167/149, 3-14=0/289, 4-13=-4/682, 6-12=-7/193, 4-6=-1679/32, 7-10=-2583/74, 3-13=-1294/121, 7-12=0/768

- TCLL: ASCE 7-22; Pf=40.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; W2=0.55
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 150.0lb AC unit load placed on the top chord, 12-0-0 from left end, supported at two points, 5-0-0 apart.
- Uninhabitable Mechanical zone exists.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 95 lb uplift at joint 2 and 136 lb uplift at joint 8.
- Load case(s) 1 has/been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Install all permanent bracing per project-specific bracing requirements, designed by others, or per industry standard details.

LOAD CASE(S) Standard
1) Dead + 0.7 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-4=-84, 4-5=-94, 5-6=-94, 6-9=-84, 15-18=-20
Concentrated Loads (lb)
Vert: 4=-75, 6=-75

NOTES
1) Wind: ASCE 7-22; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=28ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -2-0-14 to 0-9-12, Zone1 0-9-12 to 14-0-0, Zone2 14-0-0 to 18-2-15, Zone1 18-2-15 to 30-0-14 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60



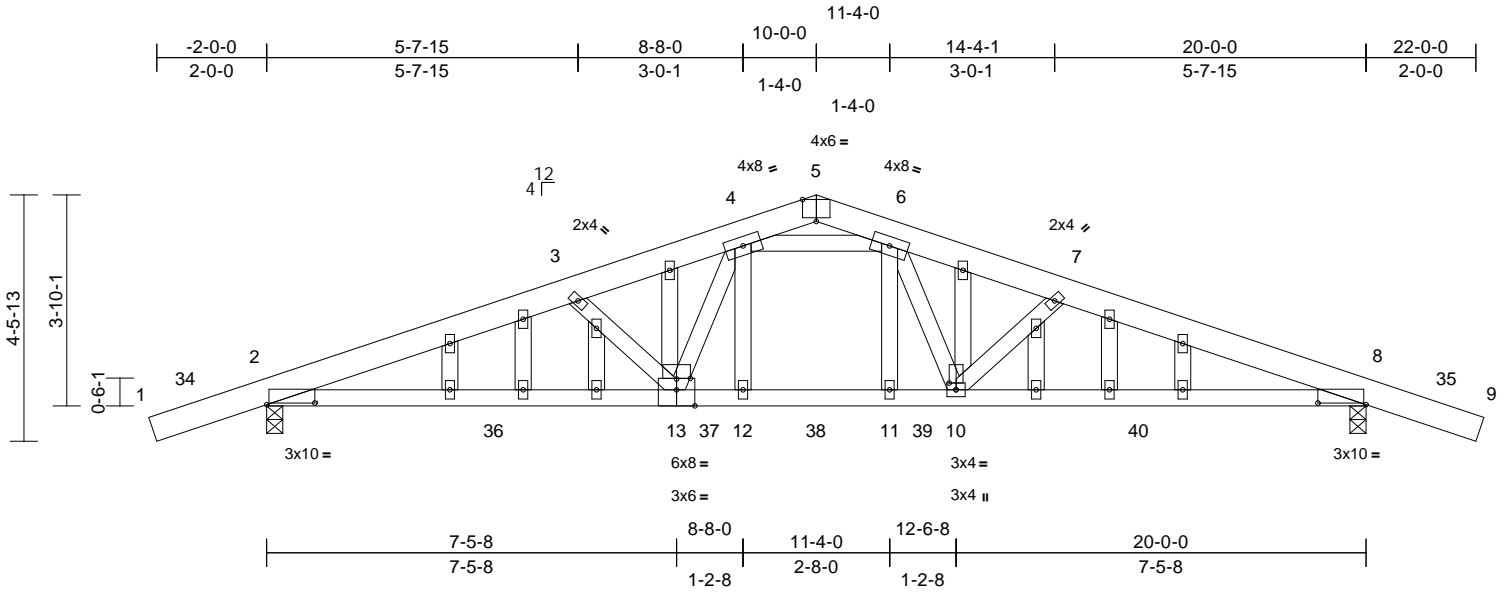
EXPIRES: 12/31/2025
October 15, 2025

Job 2510455-A	Truss B01E	Truss Type Common	Qty 2	Ply 1	Home of My Own Project Job Reference (optional)	Reviewed for Design Criteria Only R90743846
------------------	---------------	----------------------	----------	----------	----------------------------------------------------	---------------------------------------------

US LBM AZBS Gilbert Truss (Gilbert, AZ), Gilbert, AZ - 85233,

Run: 25.30 S Oct 2 2025 Print: 25.3.0 S Oct 2 2025 MiTek Industries, Inc. Tue Oct 14 11:35:20
ID:F4Dzblc?YsXbaJL1M8neQPyTWWM-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKwRCDoi7J4zJC?f

Page: 1



Scale = 1:41.9

Plate Offsets (X, Y): [2:0-10-8,0-0-6], [5:0-3-0,Edge], [8:0-10-8,0-0-6], [10:0-1-8,0-1-8], [13:0-4-0,Edge], [13:0-3-0,0-0-2]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (Roof Snow = 40.0)	40.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	-0.10	10-11	>999	360	MT20	203/168
TCDL	14.0	Lumber DOL	1.15	BC	0.96	Vert(CT)	-0.16	13-30	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.05	8	n/a	n/a		
BCDL	10.0	Code	IRC2024/TPI2022	Matrix-MS								
											Weight: 103 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SPF 1650F 1.5E
 BOT CHORD 2x4 SPF 1650F 1.5E
 WEBS 2x4 HF/SPF Stud/Std
 OTHERS 2x4 HF/SPF Stud/Std

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-4-11 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS

(size) 2=0-3-8, 8=0-3-8
 Max Horiz 2=47 (LC 13)
 Max Uplift 2=156 (LC 14), 8=156 (LC 14)
 Max Grav 2=1480 (LC 19), 8=1480 (LC 20)

FORCES

(lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/92, 2-3=-2575/395, 3-4=-2096/337, 4-5=-579/106, 5-6=-579/106, 6-7=-2096/337, 7-8=-2575/395, 8-9=0/92
 BOT CHORD 2-12=-283/2357, 11-12=-182/1650, 10-11=-182/1650, 8-10=-303/2357
 WEBS 3-13=-642/150, 7-10=-642/150, 4-12=-242/216, 6-11=-242/216, 6-10=-37/716, 4-13=-37/716, 4-6=-1107/247

NOTES

- 1) Wind: ASCE 7-22; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -2-0-14 to 0-9-12, Zone1 0-9-12 to 10-0-0, Zone2 10-0-0 to 14-6-6, Zone1 14-6-6 to 22-0-14 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 2) 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.
- 3) TCLL: ASCE 7-22; Pf=40.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; W2=0.55
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 6) All plates are 2x4 (||) MT20 unless otherwise indicated.
- 7) Gable studs spaced at 1-4-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 156 lb uplift at joint 2 and 156 lb uplift at joint 8.
- 11) Install all permanent bracing per project-specific bracing requirements, designed by others, or per industry standard details.

LOAD CASE(S) Standard



EXPIRES: 12/31/2025
 October 15, 2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

MiTek®

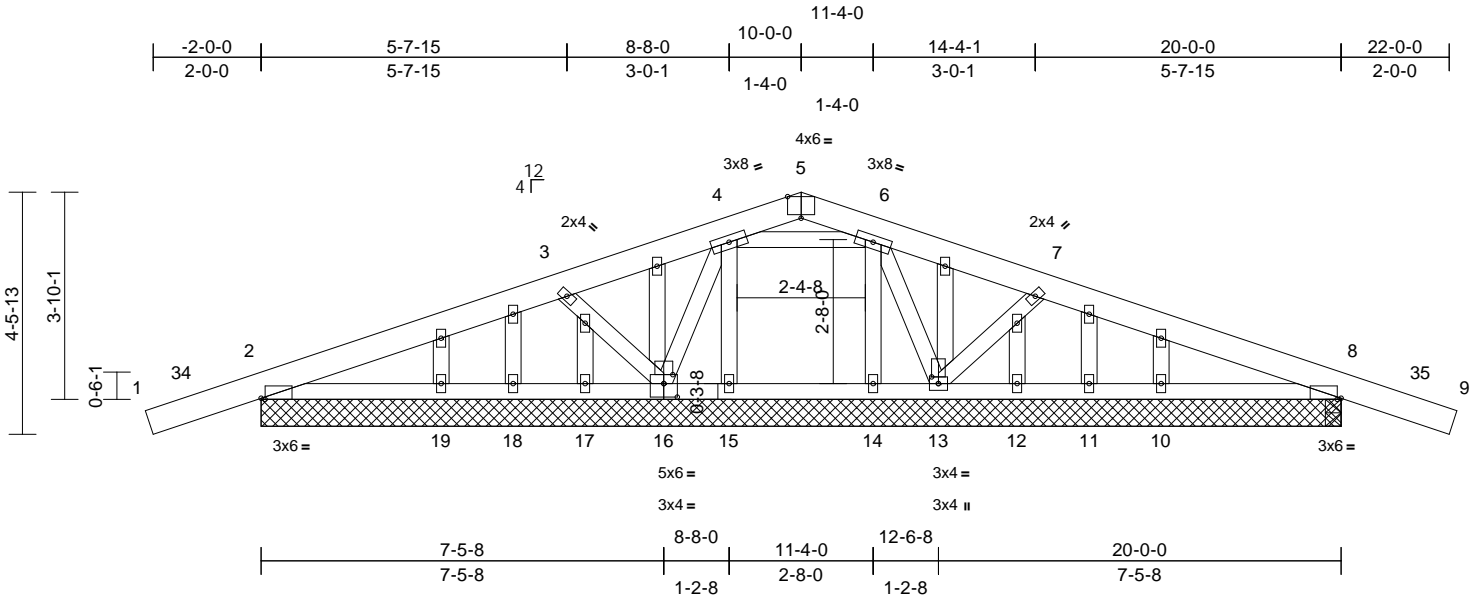
400 Sunrise Ave., Suite 270
 Roseville, CA 95661
 916.755.3571 / MiTek-US.com

Job 2510455-A	Truss B01EA	Truss Type Common Structural Gable	Qty 2	Ply 1	Home of My Own Project Job Reference (optional)	Reviewed for Design Criteria Only R90743847
------------------	----------------	---------------------------------------	----------	----------	----------------------------------------------------	---------------------------------------------

US LBM AZBS Gilbert Truss (Gilbert, AZ), Gilbert, AZ - 85233,

Run: 25.30 S Oct 2 2025 Print: 25.3.0 S Oct 2 2025 MiTek Industries, Inc. Tue Oct 14 11:35:20
ID:JydelQoQ?TQTtc?wknY9XayTWW7-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCdoi7J4zJC?f

Page: 1



Scale = 1:42.7

Plate Offsets (X, Y): [2:0-0-14,Edge], [5:0-3-0,Edge], [8:0-0-14,Edge], [13:0-1-8,0-1-8], [16:0-3-0,0-3-0], [16:0-2-0,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (Roof Snow = 40.0)	40.0	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	0.01	19-30	>999	360	MT20	203/168
TCDL	14.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	-0.01	19-30	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.00	16	n/a	n/a		
BCDL	10.0	Code	IRC2024/TPI2022	Matrix-MS								
											Weight: 103 lb	FT = 20%

LUMBER

TOP CHORD	2x6 SPF 1650F 1.5E
BOT CHORD	2x4 HF/SPF No.2
WEBS	2x4 HF/SPF Stud/Std
OTHERS	2x4 HF/SPF Stud/Std

BRACING

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 15-16,14-15,13-14.

REACTIONS (size)

2=20-0-0, 8=0-3-8, 10=20-0-0, 11=20-0-0, 12=20-0-0, 13=20-0-0, 14=20-0-0, 15=20-0-0, 16=20-0-0, 17=20-0-0, 18=20-0-0, 19=20-0-0	
Max Horiz	2=47 (LC 13)
Max Uplift	2=-138 (LC 14), 8=-138 (LC 14), 11=-31 (LC 20), 13=-87 (LC 14), 16=-87 (LC 14), 18=-31 (LC 19)
Max Grav	2=659 (LC 19), 8=659 (LC 20), 10=132 (LC 20), 11=43 (LC 18), 12=70 (LC 5), 13=668 (LC 20), 14=189 (LC 20), 15=189 (LC 19), 16=668 (LC 19), 17=70 (LC 5), 18=43 (LC 18), 19=132 (LC 19)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-2=0/92, 2-3=-337/291, 3-4=0/252, 4-5=-64/32, 5-6=-64/34, 6-7=0/252, 7-8=-337/291, 8-9=0/92
BOT CHORD	2-19=-241/242, 18-19=-2/242, 17-18=-2/242, 15-17=-102/242, 14-15=-102/96, 13-14=-102/96, 12-13=-10/242, 11-12=-10/242, 10-11=-10/242, 8-10=-241/242

WEBS

3-16=610/166, 7-13=610/166, 4-15=-142/49, 6-14=-142/51, 6-13=-247/59, 4-16=-247/58, 4-6=0/118

- NOTES**
- Wind: ASCE 7-22; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -2-0-14 to 0-9-12, Zone1 0-9-12 to 10-0-0, Zone2 10-0-0 to 14-6-6, Zone1 14-6-6 to 22-0-14 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - TCLL: ASCE 7-22; Pf=40.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; W2=0.55
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
 - All plates are 2x4 (||) MT20 unless otherwise indicated.
 - Gable studs spaced at 1-4-0 oc.
 - 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 138 lb uplift at joint 2, 87 lb uplift at joint 16, 87 lb uplift at joint 13, 31 lb uplift at joint 18, 31 lb uplift at joint 11, 138 lb uplift at joint 8 and 138 lb uplift at joint 2.

11) Install all permanent bracing per project-specific bracing requirements, designed by others, or per industry standard details.

LOAD CASE(S) Standard



EXPIRES: 12/31/2025
October 15, 2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

MiTek®

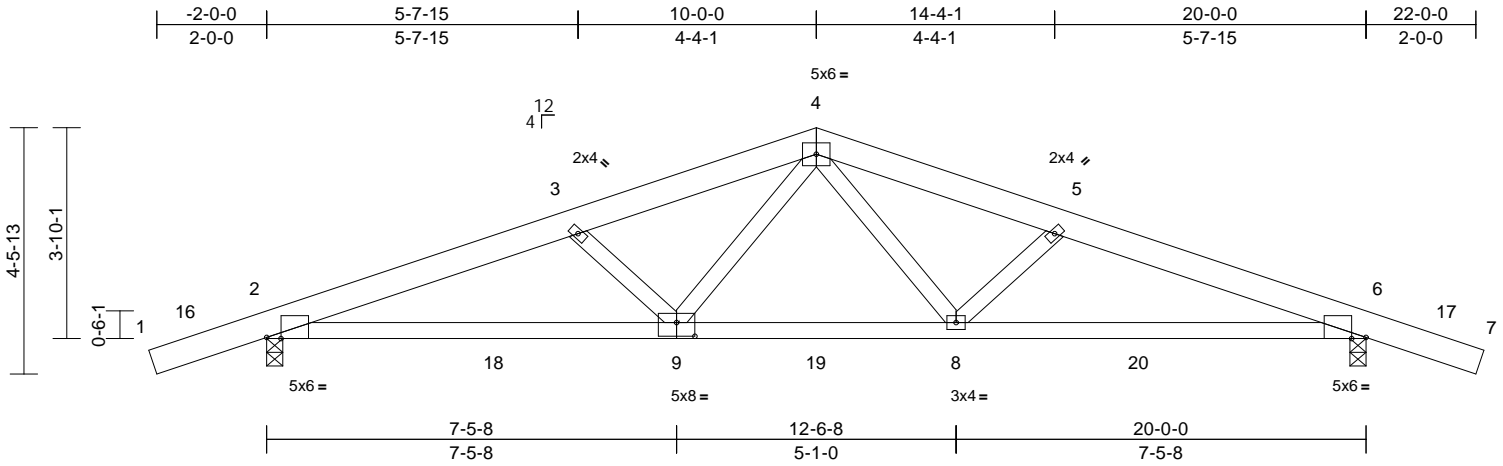
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

Job 2510455-A	Truss B02	Truss Type Common	Qty 4	Ply 1	Home of My Own Project Job Reference (optional)	Reviewed for Design Criteria Only R90743848
------------------	--------------	----------------------	----------	----------	----------------------------------------------------	---------------------------------------------

US LBM AZBS Gilbert Truss (Gilbert, AZ), Gilbert, AZ - 85233,

Run: 25.30 S Oct 2 2025 Print: 25.3.0 S Oct 2 2025 MiTek Industries, Inc. Tue Oct 14 11:35:20
ID:za?uWvMnlWsAVcAdx?sruyTWd8-RfC?PsB70Hq3NSgPqnL8w3uITXbGKwRCDoi7J4zJC?f

Page: 1



Scale = 1:41.9

Plate Offsets (X, Y): [2:0-3-2,Edge], [6:0-3-2,Edge], [9:0-4-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (Roof Snow = 40.0)	40.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	-0.08	8-9	>999	360	MT20	203/168
TCDL	14.0	Lumber DOL	1.15	BC	1.00	Vert(CT)	-0.15	8-15	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.05	6	n/a	n/a		
BCDL	10.0	Code	IRC2024/TPI2022	Matrix-MS								
											Weight: 84 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SPF 1650F 1.5E
 BOT CHORD 2x4 SPF 2100F 1.8E *Except* 9-6:2x4 SPF 1650F 1.5E
 WEBS 2x4 HF/SPF Stud/Std

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-4-11 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 1-4-12 oc bracing.

REACTIONS

(size) 2=0-3-8, 6=0-3-8
 Max Horiz 2=-47 (LC 12)
 Max Uplift 2=-156 (LC 14), 6=-156 (LC 14)
 Max Grav 2=1480 (LC 19), 6=1480 (LC 20)

FORCES

(lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/92, 2-3=-2586/406, 3-4=-2109/344,
 4-5=-2107/343, 5-6=-2583/405, 6-7=0/92
 BOT CHORD 2-8=-295/2370, 6-8=-313/2366
 WEBS 4-9=-63/699, 4-8=-62/697, 3-9=-641/172,
 5-8=-638/171

NOTES

- 1) Wind: ASCE 7-22; Vult=115mph (3-second gust)
 Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft;
 B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed;
 MWFRS (directional) and C-C Zone3 -2-0-14 to 0-9-12,
 Zone1 0-9-12 to 10-0-0, Zone2 10-0-0 to 14-6-6, Zone1
 14-6-6 to 22-0-14 zone; cantilever left and right
 exposed; end vertical left and right exposed; C-C for
 members and forces & MWFRS for reactions shown;
 Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-22; Pf=40.0 psf (Lum DOL = 1.15 Plate
 DOL = 1.15); Rough Cat C; Partially Exp.; Ce=1.0;
 Cs=1.00; Ct=1.10; W2=0.55
- 3) Unbalanced snow loads have been considered for this
 design.

- 4) This truss has been designed for greater of min roof live
 load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on
 overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom
 chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf
 on the bottom chord in all areas where a rectangle
 3-06-00 tall by 2-00-00 wide will fit between the bottom
 chord and any other members.
- 7) Provide mechanical connection (by others) of truss to
 bearing plate capable of withstanding 156 lb uplift at joint
 2 and 156 lb uplift at joint 6.
- 8) Install all permanent bracing per project-specific bracing
 requirements, designed by others, or per industry
 standard details.

LOAD CASE(S) Standard



EXPIRES: 12/31/2025
 October 15, 2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

MiTek®

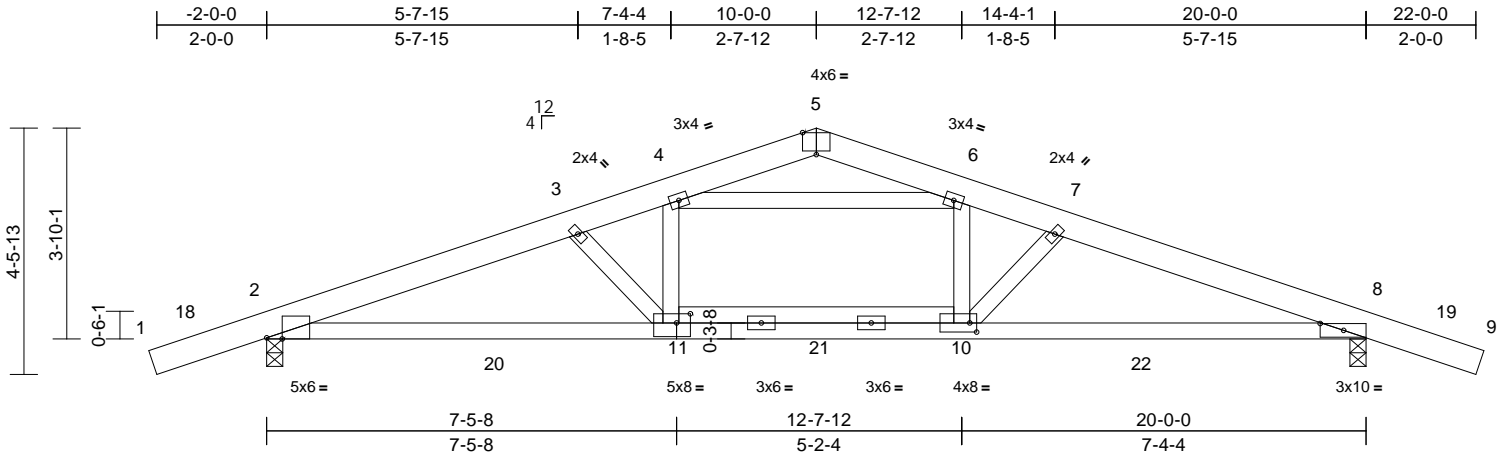
400 Sunrise Ave., Suite 270
 Roseville, CA 95661
 916.755.3571 / MiTek-US.com

Job 2510455-A	Truss B02A	Truss Type Common	Qty 20	Ply 1	Home of My Own Project Job Reference (optional)	Reviewed for Design Criteria Only R90743849
------------------	---------------	----------------------	-----------	----------	----------------------------------------------------	---------------------------------------------

US LBM AZBS Gilbert Truss (Gilbert, AZ), Gilbert, AZ - 85233,

Run: 25.30 S Oct 2 2025 Print: 25.3.0 S Oct 2 2025 MiTek Industries, Inc. Tue Oct 14 11:35:20
ID:DTGixU6kb37bPulUwx5sDTyTWat-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCdoi7J4zJC?f

Page: 1



Scale = 1:41.9
Plate Offsets (X, Y): [2:0-3-6,Edge], [5:0-3-0,Edge], [8:0-5-2,0-1-8], [10:0-1-8,0-2-0], [11:0-3-0,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.15	TC	0.32	Vert(LL)	-0.16	11-14	>999	360	MT20	203/168
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.81	Vert(CT)	-0.26	11-14	>922	240		
TCDL	14.0	Rep Stress Incr	YES	WB	0.92	Horz(CT)	0.06	8	n/a	n/a		
BCLL	0.0*	Code	IRC2024/TPI2022	Matrix-MS								
BCDL	10.0											
											Weight: 91 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 2100F 1.8E *Except* 11-10:2x4 HF/SPF No.2
WEBS 2x4 HF/SPF Stud/Std

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=0-3-8, 8=0-3-8
Max Horiz 2=47 (LC 13)
Max Uplift 2=55 (LC 14), 8=55 (LC 14)
Max Grav 2=1582 (LC 19), 8=1582 (LC 20)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/92, 2-3=-2975/93, 3-4=-2385/25, 4-5=-708/91, 5-6=-757/93, 6-7=-2386/31, 7-8=-2843/92, 8-9=0/92
BOT CHORD 2-10=-1/2736, 8-10=-19/2610
WEBS 4-11=-22/720, 6-10=-38/508, 3-11=-824/154, 7-10=-636/158, 4-6=-1510/0

- This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 150.0lb AC unit load placed on the top chord, 8-0-0 from left end, supported at two points, 5-0-0 apart.
- Uninhabitable Mechanical zone exists .
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 55 lb uplift at joint 2 and 55 lb uplift at joint 8.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Install all permanent bracing per project-specific bracing requirements, designed by others, or per industry standard details.

LOAD CASE(S) Standard
1) Dead + 0.7 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-4=-84, 4-5=-94, 5-6=-94, 6-9=-84, 12-15=-20
Concentrated Loads (lb)
Vert: 4=-75, 6=-75

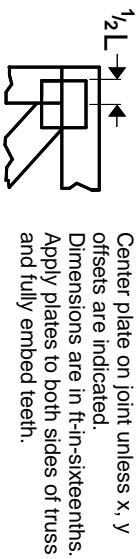
- NOTES**
- Wind: ASCE 7-22; Vult=115mph (3-second gust)
Vasd=91mph; TCdL=6.0psf; BCdL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 2-0-14 to 0-9-12, Zone1 0-9-12 to 10-0-0, Zone2 10-0-0 to 14-6-3, Zone1 14-6-3 to 22-0-14 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-22; Pf=40.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; W2=0.55
 - Unbalanced snow loads have been considered for this design.



EXPIRES: 12/31/2025
October 15, 2025

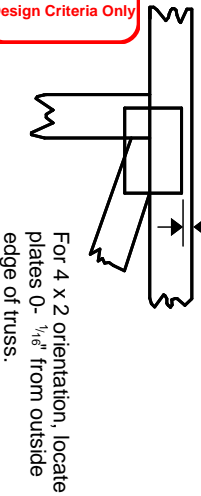
Symbols

PLATE LOCATION AND ORIENTATION

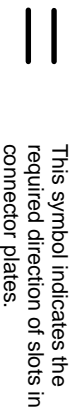


Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.

Reviewed for Design Criteria Only



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.

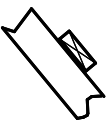
* Plate location details available in MITtek software or upon request.

PLATE SIZE

4 X 4

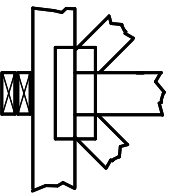
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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/letter where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TFP1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-22: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



1 TOP CHORDS
2 Joints ID
3 Joint ID
4

