



RE: 2718981 - DETAILS

MiTek USA, Inc. 6904 Parke East Blvd. Tampa, FL 33610-4115

Site Information:

Customer Info: DETAILS Project Name: N/A Model: N/A Lot/Block: N/A Subdivision: N/A

Address: N/A, N/A

State: N/A

City: N/A

Name Address and License # of Structural Engineer of Record, If there is one, for the building. Name: License #:

Address:

13 14

City: State:

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special **Loading Conditions):**

Design Code: FBC2020/TPI2014 Design Program: MiTek 20/20 8.4

Wind Code: ASCE 7-16 Wind Speed: 130 mph Roof Load: 37.0 psf Floor Load: N/A psf

This package includes 20 individual, General Truss Details and 0 Additional Drawings. With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.



This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies

The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Builders FirstSource-Jacksonville.

Truss Design Engineer's Name: ORegan, Philip

T23399819 MII-VALLEY HIGH WIND1 4/2/21

My license renewal date for the state of Florida is February 28, 2023.

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.



Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610



RE: \$JOBNAME - \$JOBDESC

MiTek USA, Inc. 6904 Parke East Blvd. Tampa, FL 33610-4115

Site Information:

Customer Info: \$SI_CUSTOMER Project Name: \$SI_JOBNAME Model: \$SI_MODEL Lot/Block: \$SI_LOTNUM Subdivision: \$SI_SUBDIV Address: \$SI_SITEADDR

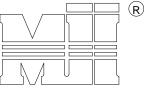
City: \$SI_SITECITY State: \$SI_SITESTATE OCTOBER 28, 2016

STANDARD REPAIR FOR ADDING A FALSE BOTTOM CHORD

MII-REP10 T23399806

MiTek USA, Inc.

Page 1 of 1



MAIN TRUSS MANUFACTURED WITHOUT FALSE BOTTOM CHORD.

MAIN TRUSS (SPACING = 24" O.C.)

MiTek USA, Inc. REFER TO THE BOTTOM CHORD BRACING SECTION OF THE INDIVIDUAL TRUSS DESIGN FOR MAXIMUM SPACING OF CONTINUOUS LATERAL BRACING WHENEVER RIGID CEILING MATERIAL IS NOT DIRECTLY ATTACHED TO THE VERTICAL STUDS @ 48" O.C.. ATTACHED BOTTOM CHORD. WITH (3) - 10d (0.131" X 3") NAILS AT EACH END OF VERTICAL (TYP.). VERTICAL STUDS TO BE 2 x 4 STUD GRADE (OR BETTER) SPF, HF, DF OR SP. (BOARD SIZÉ SPECIFIED IS MINIMUM, LARGER SIZE MAY BE USED) 2 x 4 NO. 2 (OR BETTER) SPF, HF DF OR SP FALSE BOTTOM CHORD (BOARD SIZE SPECIFIED IS MINIMUM, LARGER SIZE MAY BE USED) **FALSE BOTTOM** TRUSS SPAN

NOTES:

- 1. LOADING: TOP CHORD: (REFER TO THE MAIN TRUSS DESIGN FOR TOP CHORD LOADING). BOTTOM CHORD: LL = 0 PSF, DL = 10 PSF.
- 2. REFER TO THE MAIN TRUSS DESIGN FOR LUMBER AND PLATING REQUIREMENTS.
- 3. MAXIMUM BOTTOM CHORD PITCH = 6/12.
- 4. THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID SPLITTING OF THE WOOD.
- 5. FALSE BOTTOM CHORD ONLY DESIGNED TO CARRY VERTICAL LOAD. NO LATERAL (SHEAR) LOAD ALLOWED.
- 6. FILLER MAY EXTEND FOR FULL LENGTH OF TRUSS.

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T-BRACE / I-BRACE DETAIL WITH 2X BRACE ONLY

MII-T-BRACE 2 T23399807

MiTek USA, Inc.

Page 1 of 1



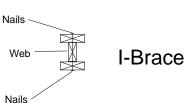
Note: T-Bracing / I-Bracing to be used when continuous lateral bracing is impractical. T-Brace / I-Brace must cover 90% of web length.

Note: This detail NOT to be used to convert T-Brace / I-Brace webs to continuous lateral braced webs.

Nailing Pattern							
T-Brace size	Nail Size	Nail Spacing					
2x4 or 2x6 or 2x8	10d (0.131" X 3")	6" o.c.					

Note: Nail along entire length of T-Brace / I-Brace (On Two-Ply's Nail to Both Plies)

	Nails
WEB	SPACING
	T-BRACE
Nails	Section Detail T-Brace Web



	Brace Size for One-Ply Truss Specified Continuous Rows of Lateral Bracing				
Web Size	1	2			
2x3 or 2x4	2x4 T-Brace	2x4 I-Brace			
2x6	2x6 T-Brace	2x6 I-Brace			
2x8	2x8 T-Brace	2x8 I-Brace			

	Brace Size for Two-Ply Truss Specified Continuous Rows of Lateral Bracing				
Web Size	1	2			
2x3 or 2x4	2x4 T-Brace	2x4 I-Brace			
2x6	2x6 T-Brace	2x6 I-Brace			
2x8	2x8 T-Brace 2x8 I-Brace				

T-Brace / I-Brace must be same species and grade (or better) as web member.

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April 2,2021

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

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information

available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



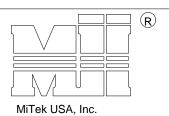
6904 Parke East Blvd. Tampa, FL 36610

SCAB-BRACE DETAIL

MII-SCAB-BRACE T23399808

MiTek USA, Inc.

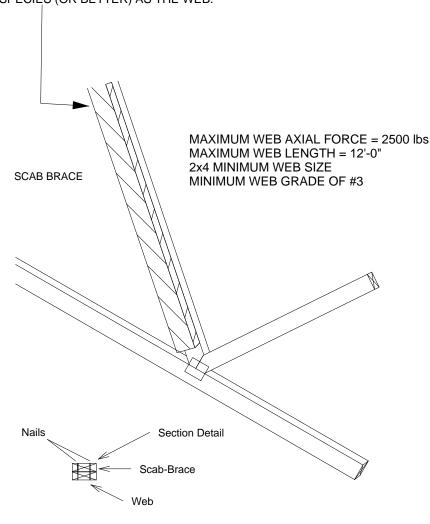
Page 1 of 1



Note: Scab-Bracing to be used when continuous lateral bracing at midpoint (or T-Brace) is impractical. Scab must cover full length of web +/- 6".

*** THIS DETAIL IS NOT APLICABLE WHEN BRACING IS *** REQUIRED AT 1/3 POINTS OR I-BRACE IS SPECIFIED.

SCAB TO ONE FACE OF WEB WITH APPLY 2x 2 ROWS OF 10d (0.131" X 3") NAILS SPACED 6" O.C. SCAB MUST BE THE SAME GRADE, SIZE AND SPECIES (OR BETTER) AS THE WEB.



Scab-Brace must be same species grade (or better) as web member.

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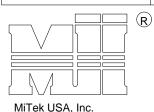
Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610



STANDARD REPAIR TO REMOVE END **VERTICAL (RIBBON NOTCH VERTICAL)**

MII-REP05 T23399809

MiTek USA, Inc. Page 1 of 1

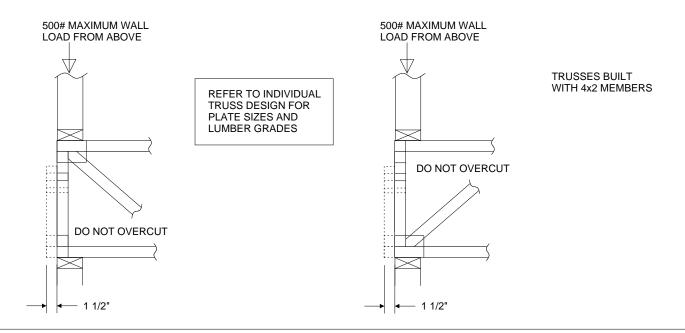


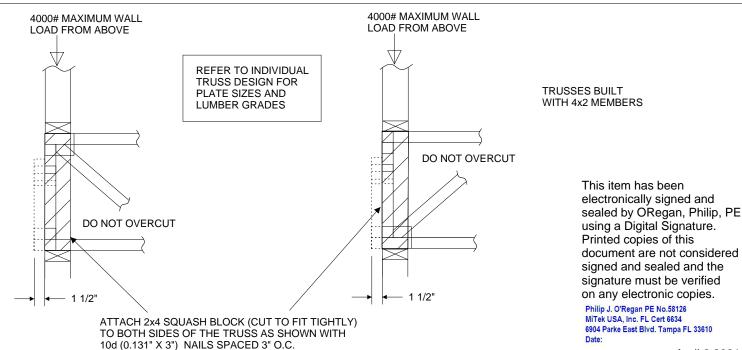
- 1. THIS IS A SPECIFIC REPAIR DETAIL TO BE USED ONLY FOR ITS ORIGINAL INTENTION. THIS REPAIR DOES NOT IMPLY THAT THE REMAINING PORTION OF THE TRUSS IS UNDAMAGED. THE ENTIRE TRUSS SHALL BE INSPECTED TO VERIFY THAT NO FURTHER REPAIRS ARE REQUIRED. WHEN THE REQUIRED REPAIRS ARE PROPERLY APPLIED, THE TRUSS WILL BE CAPABLE OF SUPPORTING THE LOADS INDICATED.
- 2. ALL MEMBERS MUST BE RETURNED TO THEIR ORIGINAL POSITIONS BEFORE
- APPLYING REPAIR AND HELD IN PLACE DURING APPLICATION OF REPAIR.

 3. THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE
- SUCH AS TO AVOID SPLITTING OF THE WOOD.

 4. LUMBER MUST BE CUT CLEANLY AND ACCURATELY AND THE REMAINING WOOD MUST BE UNDAMAGED.

 5. THIS REPAIR IS TO BE USED FOR SINGLE PLY TRUSSES IN THE 4X_ ORIENTATION ONLY.
- 6. CONNECTOR PLATES MUST BE FULLY IMBEDDED AND UNDISTURBED.





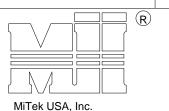


Standard Gable End Detail

MII-GE130-D-SP T23399810

Page 1 of 2

MiTek USA. Inc.



Typical _x4 L-Brace Nailed To 2x Verticals W/10d Nails spaced 6" o.c. Vertical Stud SECTION B-B

DIAGONAL BRACE 4'-0" O.C. MAX TRUSS GEOMETRY AND CONDITIONS SHOWN ARE FOR ILLUSTRATION ONLY. 12 Varies to Common Truss SEE INDIVIDUAL MITEK ENGINEERING DRAWINGS FOR DESIGN CRITERIA ** 3x4 = - Diagonal Bracing - L-Bracing Refer ** Refer to Section A-A to Section B-B

Vertical Stud DIAGONAL (4) - 16d Nails 16d Nails Spaced 6" o.c. (2) - 10d Nails into 2x6 2x6 Stud or 2x4 No.2 of better Typical Horizontal Brace Nailed To 2x_ Verticals w/(4)-10d Nails **SECTION A-A** 2x4 Stud

> PROVIDE 2x4 BLOCKING BETWEEN THE FIRST TWO TRUSSES AS NOTED. TOENAIL BLOCKING TO TRUSSES WITH (2) - 10d NAILS AT EACH END. ATTACH DIAGONAL BRACE TO BLOCKING WITH (5) - 10d NAILS.

(4) - 8d (0.131" X 2.5") NAILS MINIMUM, PLYWOOD SHEATHING TO 2x4 STD SPF BLOCK

Roof Sheathing

24" Max

if needed

End Wall

1'-3" (2) - 10d/ Max. **NAILS** (2) - 10d NAILS

2x6 DIAGONAL BRACE SPACED 48" O.C. Diag. Brace ATTACHED TO VERTICAL WITH (4) -16d at 1/3 points NAILS AND ATTACHED

TO BLOCKING WITH (5) - 10d NAILS.

HORIZONTAL BRACE (SEE SECTION A-A)

NOTE:

- 1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS. 2. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND
- WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.
- 3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY. CONSULT BLDG. ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT BRACING OF ROOF SYSTEM.
- 4. "L" BRACES SPECIFIED ARE TO BE FULL LENGTH. GRADES: 1x4 SRB OR 2x4 STUD OR BETTER WITH ONE ROW OF 10d NAILS SPACED 6" O.C. 5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF
- DIAPHRAM AT 4'-0" O.C.
- 6. CONSTRUCT HORIZONTAL BRACE CONNECTING A 2x6 STUD AND A 2x4 STUD AS SHOWN WITH 16d NAILS SPACED 6" O.C. HORIZONTAL BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST STUD. ATTACH TO VERTICAL STUDS WITH (4) 10d NAILS THROUGH 2x4. (REFER TO SECTION A-A)
- 7. GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240.
- 8. THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES
- DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR TYPE TRUSSES.
- 10. SOUTHERN PINE LUMBER DESIGN VALUES ARE THOSE EFFECTIVE 06-01-13 BY SPIB/ALSC
- NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

Minimum Stud Size Species	Stud Spacing	Without Brace	t 1x4 2x4 L-Brace L-Brace		DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS	
and Grade		Maximum Stud Length					
2x4 SP No. 3 / Stud	12" O.C.	3-9-13	4-1-1	5-9-6	7-1-3	11-5-7	
2x4 SP No. 3 / Stud	16" O.C.	3-5-4	3-6-8	5-0-2	6-10-8	10-3-13	
2x4 SP No. 3 / Stud	24" O.C.	2-9-11	2-10-11	4-1-1	5-7-6	8-5-1	

Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 I-braces attached to both edges. Fasten T and I braces to narrow edge of diagonal brace with 10d nails 8" o.c., with 3" minimum end distance. Brace must cover 90% of diagonal length.

MAX MEAN ROOF HEIGHT = 30 FEET CATEGORY II BUILDING EXPOSURE D

ASCE 7-10, ASCE 7-10 130 MPH

STUD DESIGN IS BASED ON COMPONENTS AND CLADDING.

DURANION OF COAD INCREASE LIFE AS OF READ NOT CONNECTION OF BRACTING IS BASED ON MY FIRST. 519/2020 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 properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSITP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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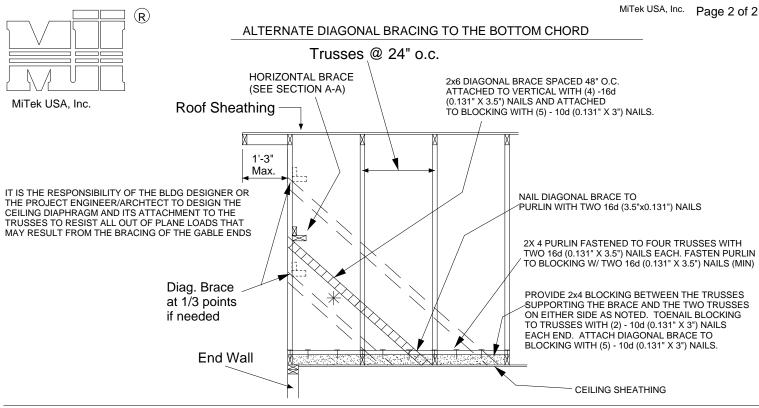
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Trusses @ 24" o.c.

Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

Standard Gable End Detail

MII-SHEET 2 T23399810



BRACING REQUIREMENTS FOR STRUCTURAL GABLE TRUSSES

STRUCTURAL GABLE TRUSSES MAY BE BRACED AS NOTED:

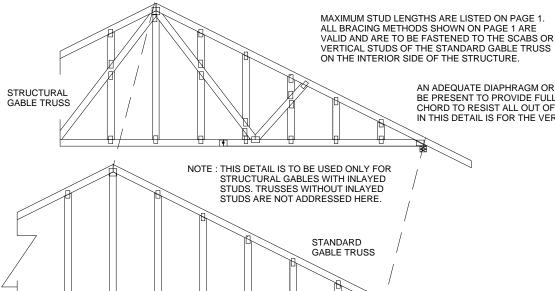
METHOD 1: ATTACH A MATCHING GABLE TRUSS TO THE INSIDE FACE OF THE STRUCTURAL GABLE AND FASTEN PER THE

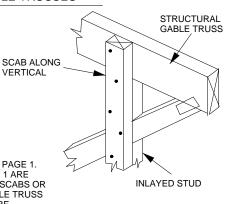
FOLLOWING NAILING SCHEDULE.

METHOD 2: ATTACH 2X_SCABS TO THE FACE OF EACH VERTICAL
MEMBER ON THE STRUCTURAL GABLE PER THE FOLLOWING
NAILING SCHEDULE. SCABS ARE TO BE OF THE SAME SIZE, GRADE AND SPECIES AS THE TRUSS VERTICALS

NAILING SCHEDULE:

EING SCHEDEL:
- FOR WIND SPEEDS 120 MPH (ASCE 7-98, 02, 05), 150 MPH (ASCE 7-10, 16) OR LESS, NAIL ALL
- MEMBERS WITH ONE ROW OF 10d (0.131" X 3") NAILS SPACED 6" O.C.
- FOR WIND SPEEDS 120-150 MPH (ASCE 7-98, 02, 05), 150-190 MPH (ASCE 7-10, 16) NAIL ALL
- MEMBERS WITH TWO ROWS OF 10d (0.131" X 3") NAILS SPACED 6" O.C. (2X 4 STUDS MINIMUM)





AN ADEQUATE DIAPHRAGM OR OTHER METHOD OF BRACING MUST BE PRESENT TO PROVIDE FULL LATERAL SUPPORT OF THE BOTTOM CHORD TO RESIST ALL OUT OF PLANE LOADS. THE BRACING SHOWN IN THIS DETAIL IS FOR THE VERTICAL/STUDS ONLY.

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April 2,2021

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Standard Gable End Detail

MII-GE130-SP

Page 1 of 2

(2) - 10d NAILS

Trusses @ 24" o.c.



24" Max



Typical _x4 L-Brace Nailed To 2x Verticals W/10d Nails spaced 6" o.c. Vertical Stud SECTION B-B

DIAGONAL BRACE TRUSS GEOMETRY AND CONDITIONS 4'-0" O.C. MAX SHOWN ARE FOR ILLUSTRATION ONLY. 12 Varies to Common Truss SEE INDIVIDUAL MITEK ENGINEERING DRAWINGS FOR DESIGN CRITERIA 3x4 =

- L-Bracing Refer

to Section B-B

Vertical Stud DIAGONAL (4) - 16d Nails 16d Nails Spaced 6" o.c. (2) - 10d Nails into 2x6 2x6 Stud or 2x4 No.2 of better Typical Horizontal Brace Nailed To 2x_ Verticals w/(4)-10d Nails **SECTION A-A** 2x4 Stud

> PROVIDE 2x4 BLOCKING BETWEEN THE FIRST TWO TRUSSES AS NOTED. TOENAIL BLOCKING TO TRUSSES WITH (2) - 10d NAILS AT EACH END. ATTACH DIAGONAL BRACE TO BLOCKING WITH (5) - 10d NAILS.

(4) - 8d (0.131" X2.5") NAILS MINIMUM, PLYWOOD SHEATHING TO 2x4 STD SPF BLOCK

Roof Sheathing

1'-3" (2) - 10d/ Max. **NAILS**

2x6 DIAGONAL BRACE SPACED 48" O.C. Diag. Brace ATTACHED TO VERTICAL WITH (4) -16d at 1/3 points NAILS AND ATTACHED

TO BLOCKING WITH (5) - 10d NAILS. if needed

HORIZONTAL BRACE **End Wall** (SEE SECTION A-A)

NOTE:

- Diagonal Bracing

Refer to Section A-A

- 1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS. 2. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND
- WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT. 3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY. CONSULT BLDG.
- ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT BRACING OF ROOF SYSTEM.
- 4. "L" BRACES SPECIFIED ARE TO BE FULL LENGTH. GRADES: 1x4 SRB
- OR 2x4 STUD OR BETTER WITH ONE ROW OF 10d NAILS SPACED 6" O.C. 5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF DIAPHRAM AT 4'-0" O.C.
- 6. CONSTRUCT HORIZONTAL BRACE CONNECTING A 2x6 STUD AND A 2x4 STUD AS SHOWN WITH 16d NAILS SPACED 6" O.C. HORIZONTAL BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST STUD. ATTACH TO VERTICAL STUDS WITH (4) 10d NAILS THROUGH 2x4. (REFER TO SECTION A-A)
- GABLE STUD DEFLECTIÓN MEETS OR EXCEEDS L/240.
- 8. THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES.
 9. DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR TYPE TRUSSES.
- 10. SOUTHERN PINE LUMBER DESIGN VALUES ARE THOSE EFFECTIVE 06-01-13 BY SPIB/ALSC.
- NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

Minimum Stud Size Species	Stud Spacing	Without Brace	1x4 2x4 L-Brace L-Brace		DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS	
and Grade			Maximur	n Stud Ler	ngth		
2x4 SP No. 3 / Stud	12" O.C.	4-0-7	4-5-6	6-3-8	8-0-15	12-1-6	
2x4 SP No. 3 / Stud	16" O.C.	3-8-0	3-10-4	5-5-6	7-4-1	11-0-1	
2x4 SP No. 3 / Stud	24" O.C.	3-0-10	3-1-12	4-5-6	6-1-5	9-1-15	

Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 I-braces attached to both edges. Fasten T and I braces to narrow edge of diagonal brace with 10d nails 8" o.c., with 3" minimum end distance. Brace must cover 90% of diagonal length.

ASCE 7-98, ASCE 7-02, ASCE 7-05 130 MPH

ASCE 7-36, ASCE 7-20 ISO MPH

STUD DESIGN IS BASED ON COMPONENTS AND CLADDING.

DURANION OF GABUNGREASE 1914.60 READ NOT CONNECTION OF BRACTINGRS BASED ON MWFRS. 5/19/2020 BEFORE USE.

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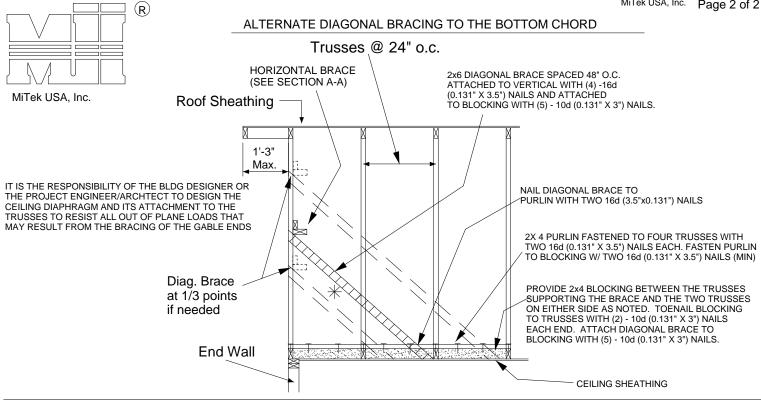
signature must be verified

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Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

MAX MEAN ROOF HEIGHT = 30 FEET CATEGORY II BUILDING EXPOSURE B or C

MiTek USA, Inc. Page 2 of 2



BRACING REQUIREMENTS FOR STRUCTURAL GABLE TRUSSES

STRUCTURAL GABLE TRUSSES MAY BE BRACED AS NOTED: METHOD 1 : ATTACH A MATCHING GABLE TRUSS TO THE INSIDE FACE OF THE STRUCTURAL GABLE AND FASTEN PER THE

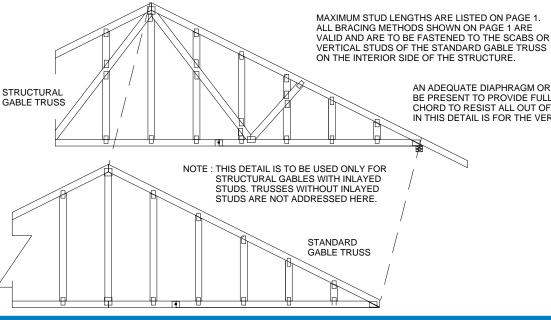
FOLLOWING NAILING SCHEDULE.

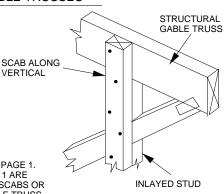
METHOD 2: ATTACH 2X _ SCABS TO THE FACE OF EACH VERTICAL MEMBER ON THE STRUCTURAL GABLE PER THE FOLLOWING NAILING SCHEDULE. SCABS ARE TO BE OF THE SAME SIZE, GRADE AND SPECIES AS THE TRUSS VERTICALS

NAILING SCHEDULE:

FOR WIND SPEEDS 120 MPH (ASCE 7-98, 02, 05), 150 MPH (ASCE 7-10, 16) OR LESS, NAIL ALL MEMBERS WITH ONE ROW OF 10d (0.131" X 3") NAILS SPACED 6" O.C.

- FOR WIND SPEEDS 120-150 MPH (ASCE 7-98, Ó2, 05), 150-190 MPH (ASCE 7-10, 16) NAIL ALL MEMBERS WITH TWO ROWS OF 10d (0.131" X 3") NAILS SPACED 6" O.C. (2X 4 STUDS MINIMUM)





AN ADEQUATE DIAPHRAGM OR OTHER METHOD OF BRACING MUST BE PRESENT TO PROVIDE FULL LATERAL SUPPORT OF THE BOTTOM CHORD TO RESIST ALL OUT OF PLANE LOADS. THE BRACING SHOWN IN THIS DETAIL IS FOR THE VERTICAL/STUDS ONLY.

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Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

April 2,2021

🗥 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

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

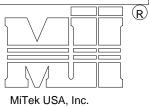
JANUARY 6, 2017

Standard Gable End Detail

MII-GE140-001 T23399812

Page 1 of 2

MiTek USA, Inc.



DIAGONAL BRACE

Typical _x4 L-Brace Nailed To 2x_ Verticals W/10d Nails spaced 6" o.c. Vertical Stud SECTION B-B

Vertical Stud DIAGONAL (4) - 16d Nails 16d Nails Spaced 6" o.c. (2) - 10d Nails into 2x6 2x6 Stud or 2x4 No.2 of better TRUSS GEOMETRY AND CONDITIONS SHOWN ARE FOR ILLUSTRATION ONLY. Typical Horizontal Brace Nailed To 2x_ Verticals w/(4)-10d Nails **SECTION A-A** 2x4 Stud

4'-0" O.C. MAX Varies to Common Truss SEE INDIVIDUAL MITEK ENGINEERING DRAWINGS FOR DESIGN CRITERIA 3x4 =Diagonal Bracing ** - L-Bracing Refer Refer to Section A-A to Section B-B

TWO TRUSSES AS NOTED. TOENAIL BLOCKING TO TRUSSES WITH (2) - 10d NAILS AT EACH END. ATTACH DIAGONAL BRACE TO BLOCKING WITH (5) - 10d NAILS. (4) - 8d (0.131" X 2.5") NAILS MINIMUM, PLYWOOD SHEATHING TO 2x4 STD DF/SPF BLOCK

PROVIDE 2x4 BLOCKING BETWEEN THE FIRST

Roof Sheathing -

- 1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS. 2. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND
- WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.

 3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY. CONSULT BLDG. ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT BRACING OF ROOF SYSTEM.
- "L" BRACES SPECIFIED ARE TO BE FULL LENGTH. GRADES: 1x4 SRB OR 2x4 STUD OR BETTER WITH ONE ROW OF 10d NAILS SPACED 6" O.C.
- 5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF DIAPHRAM AT 4'-0" O.C. 6. CONSTRUCT HORIZONTAL BRACE CONNECTING A 2x6 STUD AND A
- 2x4 STUD AS SHOWN WITH 16d NAILS SPACED 6" O.C. HORIZONTAL BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST STUD. ATTACH TO VERTICAL STUDS WITH (4) 10d NAILS THROUGH 2x4. (REFER TO SECTION A-A)
- GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240.
- THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES. DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR TYPE TRUSSES.
- 10. NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

	1 tool Ollowill	9			/	
0.4" 1.4		.,	<u> </u>		×	
24" Max	M					//
	1'-3" Max.	(2) - NAII	10d LS			(2) - 10d NAILS
			*/	/ /	russes	s @ 24" o.c.
at 1	g. Brace /3 points eeded		ATTAC NAILS	CHED TO V AND ATTA	/ERTICAL	ACED 48" O.C. WITH (4) -16d 0d NAILS.
	End Wall	\		_	ZONTAL E SECTION	-
	_	1 1				

Minimum Stud Size Species	Stud Spacing	Without Brace			DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS	
and Grade			Maximur	n Stud Ler	ngth		
2x4 DF/SPF Std/Stud	12" O.C.	3-10-1	3-11-7	5-7-2	7-8-2	11-6-4	
2x4 DF/SPF Std/Stud	16" O.C.	3-3-14	3-5-1	4-10-2	6-7-13	9-11-11	
2x4 DF/SPF Std/Stud	24" O.C.	2-8-9	2-9-8	3-11-7	5-5-2	8-1-12	

Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 I-braces attached to both edges. Fasten T and I braces to narrow edge of web with 10d nails 8" o.c., with 3" minimum end distance. Brace must cover 90% of diagonal length.

MAXIMUM WIND SPEED = 140 MPH MAX MEAN ROOF HEIGHT = 30 FEET CATEGORY II BUILDING EXPOSURE B or C

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Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

April 2,2021

ASCE 7-98, ASCE 7-02, ASCE 7-05

DURANON-OFIGOAD/INGREASE::pt.6:0 REAP GONNECTION IOFISBASED ON COMPONENTS AND CLADDING.

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

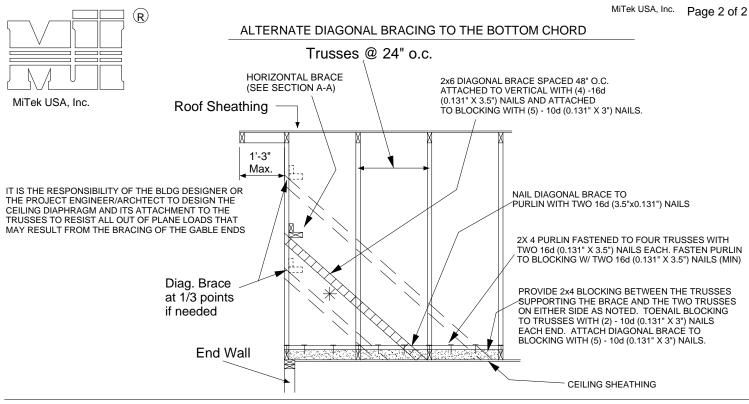
ANSITP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information

available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

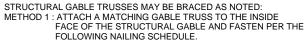


Standard Gable End Detail

MII-SHEET 2 T23399812



BRACING REQUIREMENTS FOR STRUCTURAL GABLE TRUSSES



METHOD 2 : ATTACH 2X _ SCABS TO THE FACE OF EACH VERTICAL

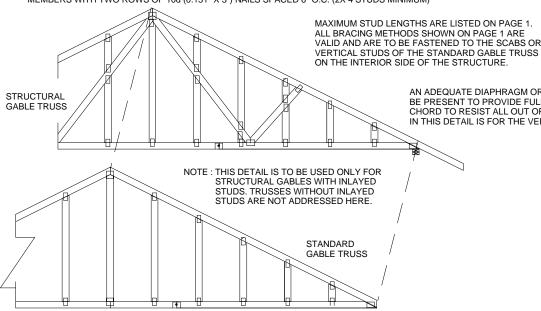
MEMBER ON THE STRUCTURAL GABLE PER THE FOLLOWING

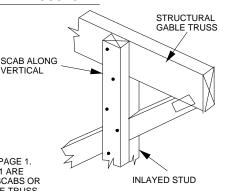
NAILING SCHEDULE. SCABS ARE TO BE OF THE SAME SIZE, GRADE AND SPECIES AS THE TRUSS VERTICALS

NAILING SCHEDULE:

FOR WIND SPEEDS 120 MPH (ASCE 7-98, 02, 05), 150 MPH (ASCE 7-10, 16) OR LESS, NAIL ALL MEMBERS WITH ONE ROW OF 10d (0.131" X 3") NAILS SPACED 6" O.C.
FOR WIND SPEEDS 120-150 MPH (ASCE 7-98, 02, 05), 150-190 MPH (ASCE 7-10, 16) NAIL ALL

MEMBERS WITH TWO ROWS OF 10d (0.131" X 3") NAÎLS SPACED 6" O.C. (2X 4 STÚDS MINIMUM)





AN ADEQUATE DIAPHRAGM OR OTHER METHOD OF BRACING MUST BE PRESENT TO PROVIDE FULL LATERAL SUPPORT OF THE BOTTOM CHORD TO RESIST ALL OUT OF PLANE LOADS. THE BRACING SHOWN IN THIS DETAIL IS FOR THE VERTICAL/STUDS ONLY.

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Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610





Standard Gable End Detail

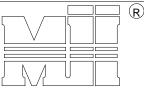
**

MII-GE170-D-SP T23399813

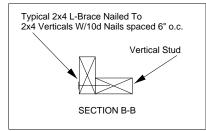




Page 1 of 2



MiTek USA, Inc.



TRUSS GEOMETRY AND CONDITIONS SHOWN ARE FOR ILLUSTRATION ONLY.

Varies to Common Truss SEE INDIVIDUAL MITEK ENGINEERING DRAWINGS FOR DESIGN CRITERIA

3x4 =

- Diagonal Bracing - L-Bracing Refer ** Refer to Section A-A to Section B-B

DIAGONAL BRACE

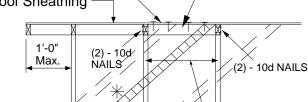
4'-0" O.C. MAX

Vertical Stud 2X6 SP OR SPF No. 2 DIAGONAL BRACE (4) - 16d Nails 16d Nails Spaced 6" o.c. (2) - 10d Nails into 2x6 2X6 SP OR SPF No. 2 Typical Horizontal Brace Nailed To 2x4 Verticals w/(4)-10d Nails SECTION A-A 2X4 SP OR SPF No. 2

PROVIDE 2x4 BLOCKING BETWEEN THE FIRST TWO TRUSSES AS NOTED. TOENAIL BLOCKING TO TRUSSES WITH (2) - 10d NAILS AT EACH END. ATTACH DIAGONAL BRACE TO BLOCKING WITH (5) - 10d NAILS.

(4) - 8d (0.131" X 2.5") NAILS MINIMUM, PLYWOOD SHEATHING TO 2x4 STD SPF BLOCK

Roof Sheathing 24" Max



Diag. Brace at 1/3 points if needed

End Wall

2x6 DIAGONAL BRACE SPACED 48" O.C. ATTACHED TO VERTICAL WITH (4) -16d NAILS, AND ATTACHED TO BLOCKING WITH (5) -10d NAILS.

∕Trusses @ 24" o.c.

HORIZONTAL BRACE (SEE SECTION A-A)

NOTE:

- 1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS. 2. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND
- WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.
- 3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY. CONSULT BLDG. ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT BRACING OF ROOF SYSTEM.
- "L" BRACES SPECIFIED ARE TO BE FULL LENGTH, SPF or SP No.3 OR BETTER WITH ONE ROW OF 10d NAILS SPACED 6" O.C. 5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF
- DIAPHRAM AT 4'-0" O.C.
- 6. CONSTRUCT HORIZONTAL BRACE CONNECTING A 2x6 AND A 2x4 AS SHOWN WITH 16d NAILS SPACED 6" O.C. HORIZONTAL BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST GABLE STUD. ATTACH TO VERTICAL GABLE STUDS WITH (4) 10d NAILS THROUGH 2x4. (REFER TO SECTION A-A)
- 7. GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240.
- THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES.
- DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR TYPE TRUSSES.
- 10. SOUTHERN PINE LUMBER DESIGN VALUES ARE THOSE EFFECTIVE 06-01-13 BY SPIB/ALSC.
- 11. NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

Minimum Stud Size Species	Stud Spacing	Without Brace	DDA		2 DIAGONAL BRACES AT 1/3 POINTS
and Grade					
2x4 SP No. 3 / Stud	12" O.C.	3-9-7	5-8-8	6-11-1	11-4-4
2x4 SP No. 3 / Stud	16" O.C.	3-4-12	4-11-15	6-9-8	10-2-3
2x4 SP No. 3 / Stud	24" O.C.	2-9-4	4-0-7	5-6-8	8-3-13
2x4 SP No. 2	12" O.C.	3-11-13	5-8-8	6-11-1	11-11-7
2x4 SP No. 2	16" O.C.	3-7-7	4-11-5	6-11-1	10-10-5
2x4 SP No. 2	24" O.C.	3-1-15	4-0-7	6-3-14	9-5-14

Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 l-braces attached to both edges. Fasten T and I braces to narrow edge of diagonal brace with 10d nails 6" o.c., with 3" minimum end distance. Brace must cover 90% of diagonal length. T or I braces must be 2x4 SPF No. 2 or SP No. 2.

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April 2,2021

MAX MEAN ROOF HEIGHT = 30 FEET EXPOSURE D

DURATION OF LOAD INCREASE: 1.60
WARNING - Verify design parameters and READ NOTE CONNECTION OF BRACING IS BASED ON MAYERS: 5/19/2020 BEFORE USE

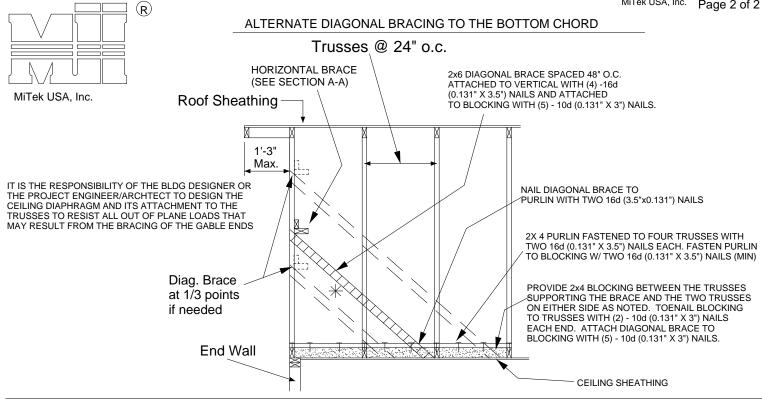
Design valid for use only with MITek® connectors. This design is based only upon parameters and roperly incorporate this design in the overall building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated 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

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TUD DESIGN IS BASED ON COMPONENTS



MiTek USA, Inc. Page 2 of 2



BRACING REQUIREMENTS FOR STRUCTURAL GABLE TRUSSES

STRUCTURAL GABLE TRUSSES MAY BE BRACED AS NOTED:

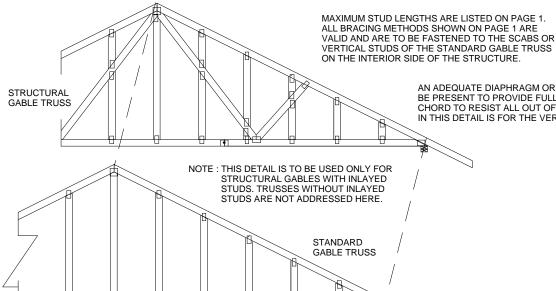
METHOD 1: ATTACH A MATCHING GABLE TRUSS TO THE INSIDE FACE OF THE STRUCTURAL GABLE AND FASTEN PER THE

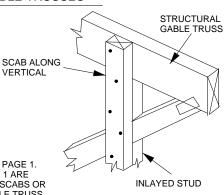
FOLLOWING NAILING SCHEDULE.

METHOD 2: ATTACH 2X_SCABS TO THE FACE OF EACH VERTICAL
MEMBER ON THE STRUCTURAL GABLE PER THE FOLLOWING
NAILING SCHEDULE. SCABS ARE TO BE OF THE SAME SIZE, GRADE AND SPECIES AS THE TRUSS VERTICALS

NAILING SCHEDULE:

EING SCHEDEL:
- FOR WIND SPEEDS 120 MPH (ASCE 7-98, 02, 05), 150 MPH (ASCE 7-10, 16) OR LESS, NAIL ALL
- MEMBERS WITH ONE ROW OF 10d (0.131" X 3") NAILS SPACED 6" O.C.
- FOR WIND SPEEDS 120-150 MPH (ASCE 7-98, 02, 05), 150-190 MPH (ASCE 7-10, 16) NAIL ALL
- MEMBERS WITH TWO ROWS OF 10d (0.131" X 3") NAILS SPACED 6" O.C. (2X 4 STUDS MINIMUM)





AN ADEQUATE DIAPHRAGM OR OTHER METHOD OF BRACING MUST BE PRESENT TO PROVIDE FULL LATERAL SUPPORT OF THE BOTTOM CHORD TO RESIST ALL OUT OF PLANE LOADS. THE BRACING SHOWN IN THIS DETAIL IS FOR THE VERTICAL/STUDS ONLY.

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April 2,2021

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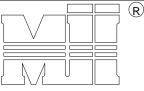


Standard Gable End Detail

MII-GE180-D-SP T23399814



Page 1 of 2



DIAGONAL BRACE

4'-0" O.C. MAX

MiTek USA, Inc.

Typical 2x4 L-Brace Nailed To 2x4 Verticals W/10d Nails spaced 6" o.c.

Vertical Stud

SECTION B-B

TRUSS GEOMETRY AND CONDITIONS SHOWN ARE FOR ILLUSTRATION ONLY.

Varies to Common Truss

Ė

**

SEE INDIVIDUAL MITEK ENGINEERING

24" Max

End Wall

DRAWINGS FOR DESIGN CRITERIA

3x4 =

Vertical Stud

(4) - 16d Nails

2X6 SP OR SPF No. 2
DIAGONAL BRACE

16d Nails
Spaced 6" o.c.

2X6 SP OR SPF No. 2
Typical Horizontal Brace
Nailed To 2x4 Verticals
w/(4)-10d Nails

SECTION A-A

2X4 SP OR SPF No. 2

PROVIDE 2x4 BLOCKING BETWEEN THE FIRST TWO TRUSSES AS NOTED. TOENAIL BLOCKING TO TRUSSES WITH (2) - 10d NAILS AT EACH END. ATTACH DIAGONAL BRACE TO BLOCKING WITH (5) - 10d NAILS.

★ - Diagonal Bracing Refer to Section A-A

★★ - L-Bracing Refer to Section B-B

NOTE:

- 1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS.
- 2. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.
- 3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY, CONSULT BLDG. ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT BRACING OF ROOF SYSTEM.
- "L" BRACES SPECIFIED ARE TO BE FULL LENGTH, SPF or SP No.3 OR BETTER WITH ONE ROW OF 10d NAILS SPACED 6" O.C.
 DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF
- 5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF DIAPHRAM AT 4'-0" O.C.
- 6. CONSTRUCT HORIZONTAL BRACE CONNECTING A 2x6 AND A 2x4 AS SHOWN WITH 16d NAILS SPACED 6" O.C. HORIZONTAL BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST GABLE STUD. ATTACH TO VERTICAL GABLE STUDS WITH (4) 10d NAILS THROUGH 2x4. (REFER TO SECTION A-A)
- 7. GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240.
- 8. THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES.
- 9. DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR TYPE TRUSSES.
- 10. SOUTHERN PINE LUMBER DESIGN VALUES ARE THOSE EFFECTIVE 06-01-13 BY SPIB/ALSC.
- 11. NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

NAILS DESIGNATED 16d ARE (0.131" X 3.5")								
Minimum Stud Size Species	Stud Spacing	Without Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS			
and Grade			Maximum St	ud Length				
2x4 SP No. 3 / Stud	12" O.C.	3-7-12	5-4-11	6-2-1	10-11-3			
2x4 SP No. 3 / Stud	16" O.C.	3-2-8	4-8-1	6-2-1	9-7-7			
2x4 SP No. 3 / Stud	24" O.C.	2-7-7	3-9-12	5-2-13	7-10-4			
2x4 SP No. 2	12" O.C.	3-10-0	5-4-11	6-2-1	11-6-1			
2x4 SP No. 2	16" O.C.	3-5-13	4-8-1	6-2-1	10-5-7			
2x4 SP No. 2	24" O.C.	3-0-8	3-9-12	6-1-1	9-1-9			

Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 I-braces attached to both edges. Fasten T and I braces to narrow edge of diagonal brace with 10d nails 6in o.c., with 3in minimum end distance. Brace must cover 90% of diagonal length. T or I braces must be 2x4 SPF No. 2 or SP No. 2.

Roof Sheathing

1'-0"

Max.

(2) - 10d

NAILS

(2) - 10d NAILS

(2) - 10d NAILS

(2) - 10d NAILS

2x6 DIAGONAL BRACE SPACED
48" O.C. ATTACHED TO VERTICAL WITH
(4) -16d NAILS, AND ATTACHED TO
BLOCKING WITH (5) -10d NAILS.

(4) - 8d (0.131" X 2.5") NAILS MINIMUM, PLYWOOD

SHEATHING TO 2x4 STD SPF BLOCK

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HORIZONTAL BRACE

(SEE SECTION A-A)

Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

April 2,2021

MAX MEAN ROOF HEIGHT = 30 FEET EXPOSURE D

ASCE 7-10, ASCE 7-16 180 MPH

DURATION ARIJE CAPY INCREASE: 13 AR READ NOTES CONNECTION OF BRACING IS BASED ON INVISES. 5/19/2020 BEFORE USE

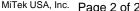
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 **MSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

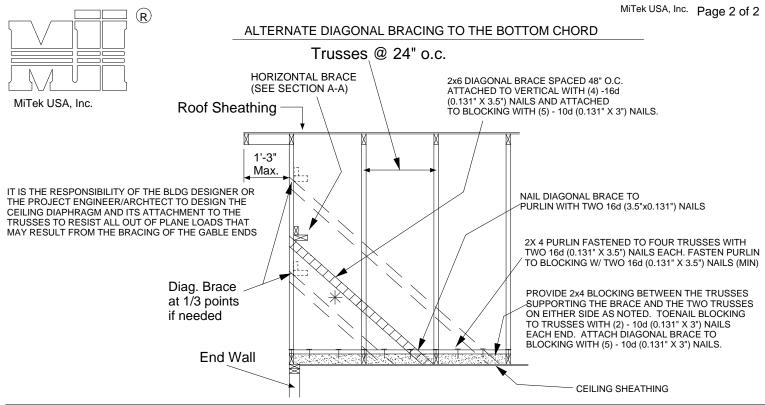


6904 Parke East Blvd Tampa, FL 36610

Standard Gable End Detail

MII-SHEET 2 T23399814





BRACING REQUIREMENTS FOR STRUCTURAL GABLE TRUSSES

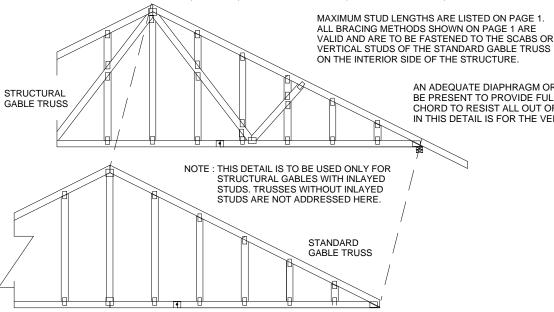
STRUCTURAL GABLE TRUSSES MAY BE BRACED AS NOTED: METHOD 1 : ATTACH A MATCHING GABLE TRUSS TO THE INSIDE FACE OF THE STRUCTURAL GABLE AND FASTEN PER THE FOLLOWING NAILING SCHEDULE.

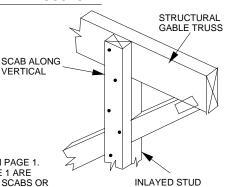
METHOD 2: ATTACH 2X _ SCABS TO THE FACE OF EACH VERTICAL MEMBER ON THE STRUCTURAL GABLE PER THE FOLLOWING NAILING SCHEDULE. SCABS ARE TO BE OF THE SAME SIZE, GRADE

AND SPECIES AS THE TRUSS VERTICALS NAILING SCHEDULE:

FOR WIND SPEEDS 120 MPH (ASCE 7-98, 02, 05), 150 MPH (ASCE 7-10, 16) OR LESS, NAIL ALL MEMBERS WITH ONE ROW OF 10d (0.131" X 3") NAILS SPACED 6" O.C. FOR WIND SPEEDS 120-150 MPH (ASCE 7-98, 02, 05), 150-190 MPH (ASCE 7-10, 16) NAIL ALL

MEMBERS WITH TWO ROWS OF 10d (0.131" X 3") NAILS SPACED 6" O.C. (2X 4 STUDS MINIMUM)





AN ADEQUATE DIAPHRAGM OR OTHER METHOD OF BRACING MUST BE PRESENT TO PROVIDE FULL LATERAL SUPPORT OF THE BOTTOM CHORD TO RESIST ALL OUT OF PLANE LOADS. THE BRACING SHOWN IN THIS DETAIL IS FOR THE VERTICAL/STUDS ONLY.

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Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

April 2,2021

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MiTek USA, Inc.

STANDARD PIGGYBACK TRUSS CONNECTION DETAIL

MII-PIGGY-7-16 T23399815

MiTek USA, Inc. Page 1 of 1

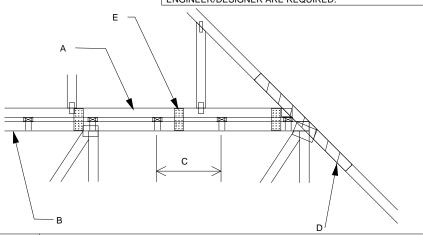
(R)

MAXIMUM WIND SPEED = REFER TO NOTES D AND OR E MAX MEAN ROOF HEIGHT = 30 FEET MAX TRUSS SPACING = 24 " O.C. CATEGORY II BUILDING EXPOSURE B or C **ENCLOSED BUILDING** LOADING = 5 PSF TCDL ASCE 7-10, ASCE 7-16 **DURATION OF LOAD INCREASE: 1.60**

DETAIL IS NOT APPLICABLE FOR TRUSSES TRANSFERING DRAG LOADS (SHEAR TRUSSES). ADDITIONAL CONSIDERATIONS BY BUILDING ENGINEER/DESIGNER ARE REQUIRED.

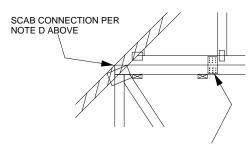
- A PIGGBACK TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.
- A PIGGBACK TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.
 SHALL BE CONNECTED TO EACH PURLIN
 WITH (2) (0.131" X 3.5") TOE-NAILED.
 B BASE TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.
 C PURLINS AT EACH BASE TRUSS JOINT AND A MAXIMUM 24" O.C.
 UNLESS SPECIFIED CLOSER ON MITEK TRUSS DESIGN DRAWING.
- UNLESS SPECIFIED CLOSER ON MITEK TRUSS DESIGN DRAWING. CONNECT TO BASE TRUSS WITH (2) (0.131" X 3.5") NAILS EACH.

 2 X __ X 4'-0" SCAB, SIZE TO MATCH TOP CHORD OF PIGGYBACK TRUSS, MIN GRADE #2, ATTACHED TO ONE FACE, CENTERED ON INTERSECTION, WITH (2) ROWS OF (0.131" X 3") NAILS @ 4" O.C. SCAB MAY BE OMITTED PROVIDED THE TOP CHORD SHEATHING IS CONTINUOUS OVER INTERSECTION AT LEAST 1 FT. IN BOTH DIRECTIONS AND:
- 1. WIND SPEED OF 115 MPH OR LESS FOR ANY PIGGYBACK SPAN, OR 2. WIND SPEED OF 116 MPH TO 180 MPH WITH A MAXIMUM
- PIGGYBACK SPAN OF 12 ft.
 FOR WIND SPEEDS BETWEEN 116 AND 180 MPH, ATTACH
 MITEK NP37 20 GA Nail-On PLATES TO EACH FACE OF TRUSSES AT 72" O.C. W/ (4) (0.131" X 1.5") NAILS PER MEMBER. STAGGER NAILS FROM OPPOSING FACES. ENSURE 0.5" NAIL EDGE DISTANCE. (MIN. 2 PAIRS OF PLATES REQ. REGARDLESS OF SPAN)

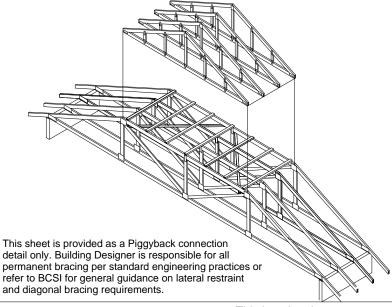


WHEN NO GAP BETWEEN PIGGYBACK AND BASE TRUSS EXISTS:

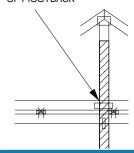
REPLACE TOE NAILING OF PIGGYBACK TRUSS TO PURLINS WITH Nail-On PLATES AS SHOWN, AND INSTALL PURLINS TO BOTTOM EDGE OF BASE TRUSS TOP CHORD AT SPECIFIED SPACING SHOWN ON BASE TRUSS MITEK DESIGN DRAWING.



FOR ALL WIND SPEEDS, ATTACH MITEK NP37 20 GA Nail-On PLATES TO EACH FACE OF TRUSSES AT 48" O.C. W/ (4) (0.131" X 1.5") PER MEMBER. STAGGER NAILS FROM OPPOSING FACES ENSURE 0.5" NAIL EDGE DISTANCE.



VERTICAL WEB TO EXTEND THROUGH BOTTOM CHORD OF PIGGYBACK



FOR LARGE CONCENTRATED LOADS APPLIED TO CAP TRUSS REQUIRING A VERTICAL WEB:

- VERTICAL WEBS OF PIGGYBACK AND BASE TRUSS MUST MATCH IN SIZE, GRADE, AND MUST LINE UP AS SHOWN IN DETAIL
- x 4'-0" SCAB TO EACH FACE OF TRUSS ASSEMBLY WITH 2 ROWS OF 10d (0.131" X 3") NAILS SPACED 4" O.C. FROM EACH FACE. (SIZE AND GRADE TO MATCH VERTICAL WEBS OF PIGGYBACK AND BASE TRUSS.) (MINIMUM 2X4)
- THIS CONNECTION IS ONLY VALID FOR A MAXIMUM CONCENTRATED LOAD OF 4000 LBS (@1.15). REVIEW BY A QUALIFIED ENGINEER IS REQUIRED FOR LOADS GREATER THAN 4000 LBS.
- 4) FOR PIGGYBACK TRUSSES CARRYING GIRDER LOADS,
 NUMBER OF PLYS OF PIGGYBACK TRUSS TO MATCH BASE TRUSS.
 5) CONCENTRATED LOAD MUST BE APPLIED TO BOTH

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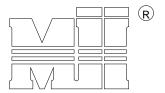


JANUARY 8, 2019

STANDARD PIGGYBACK TRUSS CONNECTION DETAIL

MII-PIGGY-ALT-7-16 T23399816

Page 1 of 1 MiTek USA, Inc.



MiTek USA, Inc.

MAXIMUM WIND SPEED = REFER TO NOTES D AND OR E MAX MEAN ROOF HEIGHT = 30 FEET MAX TRUSS SPACING = 24 " O.C. CATEGORY II BUILDING EXPOSURE B or C ENCLOSED BUILDING LOADING = 5 PSF TCDL MINIMUM

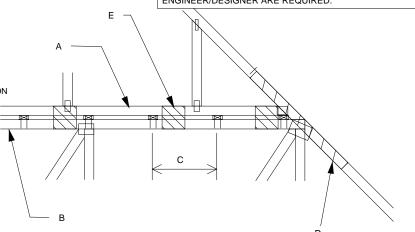
ASCE 7-10, ASCE 7-16 **DURATION OF LOAD INCREASE: 1.60**

DETAIL IS NOT APPLICABLE FOR TRUSSES TRANSFERING DRAG LOADS (SHEAR TRUSSES). ADDITIONAL CONSIDERATIONS BY BUILDING ENGINEER/DESIGNER ARE REQUIRED.

- A PIGGBACK TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING. SHALL BE CONNECTED TO EACH PURLIN
 WITH (2) 0(0.131" X 3.5") TOE-NAILED.

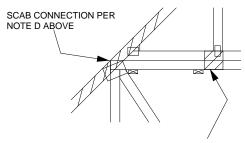
 BASE TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.
 - PURLINS AT EACH BASE TRUSS JOINT AND A MAXIMUM 24" O.C.
 UNLESS SPECIFIED CLOSER ON MITEK TRUSS DESIGN DRAWING.

- UNLESS SPECIFIED CLOSER OIN MITEX TRUSS DESIGN DRAWING.
 CONNECT TO BASE TRUSS WITH (2) (0.131" X 3.5") NAILS EACH.
 2 X _ X 4'-0" SCAB, SIZE TO MATCH TOP CHORD OF
 PIGGYBACK TRUSS, MIN GRADE #2, ATTACHED TO ONE FACE, CENTERED ON
 INTERSECTION, WITH (2) ROWS OF (0.131" X 3") NAILS @ 4" O.C.
 SCAB MAY BE OMITTED PROVIDED THE TOP CHORD SHEATHING IS CONTINUOUS OVER INTERSECTION AT LEAST 1 FT. IN BOTH DIRECTIONS AND:
- 1. WIND SPEED OF 115 MPH OR LESS FOR ANY PIGGYBACK SPAN, OR 2. WIND SPEED OF 116 MPH TO 180 MPH WITH A MAXIMUM
- PIGGYBACK SPAN OF 12 ft.
 E FOR WIND SPEED IN THE RANGE 116 MPH 180 MPH ADD 9" x 9" x 1/2" PLYWOOD (or 7/16" OSB) GUSSET EACH SIDE AT 48" O.C. OR LESS. ATTACH WITH 3 - 6d (0.113" X 2") NAILS INTO EACH CHORD FROM EACH SIDE (TOTAL - 12 NAILS)

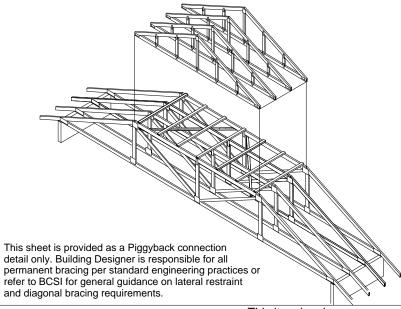


WHEN NO GAP BETWEEN PIGGYBACK AND BASE TRUSS EXISTS:

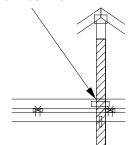
REPLACE TOE NAILING OF PIGGYBACK TRUSS TO PURLINS WITH PLYWOOD GUSSETS AS SHOWN, AND INSTALL PURLINS TO BOTTOM EDGE OF BASE TRUSS TOP CHORD AT SPECIFIED SPACING SHOWN ON BASE TRUSS MITEK DESIGN DRAWING.



7" x 7" x 1/2" PLYWOOD (or 7/16" OSB) GUSSET EACH SIDE AT 24" O.C. ATTACH WITH 3 - 6d (0.113" X 2") NAILS INTO EACH CHORD FROM EACH SIDE (TOTAL - 12 NAILS)



VERTICAL WEB TO EXTEND THROUGH **BOTTOM CHORD** OF PIGGYBACK



FOR LARGE CONCENTRATED LOADS APPLIED TO CAP TRUSS REQUIRING A VERTICAL WEB:

- 1) VERTICAL WEBS OF PIGGYBACK AND BASE TRUSS MUST MATCH IN SIZE, GRADE, AND MUST LINE UP AS SHOWN IN DETAIL
- ATTACH 2 x ___ x 4-0" SCAB TO EACH FACE OF TRUSS ASSEMBLY WITH 2 ROWS OF 10d (0.131" X 3") NAILS SPACED 4" O.C. FROM EACH FACE. (SIZE AND GRADE TO MATCH ATTACH 2 x VERTICAL WEBS OF PIGGYBACK AND BASE TRUSS.) (MINIMUM 2X4)
- THIS CONNECTION IS ONLY VALID FOR A MAXIMUM CONCENTRATED LOAD OF 4000 LBS (@1.15). REVIEW BY A QUALIFIED ENGINEER IS REQUIRED FOR LOADS
- GREATER THAN 4000 LBS.
 4) FOR PIGGYBACK TRUSSES CARRYING GIRDER LOADS, NUMBER OF PLYS OF PIGGYBACK TRUSS TO MATCH BASE TRUSS.
- 5) CONCENTRATED LOAD MUST BE APPLIED TO BOTH

IE PIGGYBACK AND THE BASE TRUSS DESIGN

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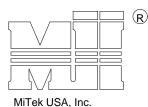


STANDARD REPAIR DETAIL FOR BROKEN CHORDS, WEBS AND DAMAGED OR MISSING CHORD SPLICE PLATES

MII-REP01A1 T23399817

MiTek USA, Inc.

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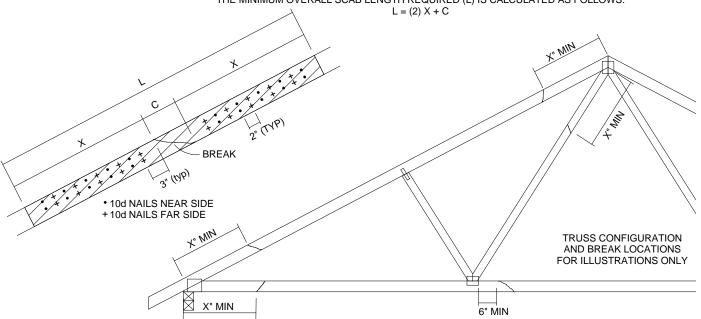


TOTAL NUMBER OF NAILS EACH SIDE OF BREAK *		MAXIMUM FORCE (lbs) 15% LOAD DURATION								
		X INCHES	SP		DF		SPF		HF	
2x4	2x6		2x4	2x6	2x4	2x6	2x4	2x6	2x4	2x6
20	30	24"	1706	2559	1561	2342	1320	1980	1352	2028
26	39	30"	2194	3291	2007	3011	1697	2546	1738	2608
32	48	36"	2681	4022	2454	3681	2074	3111	2125	3187
38	57	42"	3169	4754	2900	4350	2451	3677	2511	3767
44	66	48"	3657	5485	3346	5019	2829	4243	2898	4347

^{*} DIVIDE EQUALLY FRONT AND BACK

ATTACH 2x_ SCAB OF THE SAME SIZE AND GRADE AS THE BROKEN MEMBER TO EACH FACE OF THE TRUSS (CENTER ON BREAK OR SPLICE) WITH 10d (0.131" X 3") NAILS (TWO ROWS FOR 2x4, THREE ROWS FOR 2x6) SPACED 4" O.C. AS SHOWN. STAGGER NAIL SPACING FROM FRONT FACE AND BACK FACE FOR A NET 0-2-0 O.C. SPACING IN THE MAIN MEMBER. USE A MIN. 0-3-0 MEMBER END DISTANCE.

THE LENGTH OF THE BREAK (C) SHALL NOT EXCEED 12". (C=PLATE LENGTH FOR SPLICE REPAIRS) THE MINIMUM OVERALL SCAB LENGTH REQUIRED (L) IS CALCULATED AS FOLLOWS:



THE LOCATION OF THE BREAK MUST BE GREATER THAN OR EQUAL TO THE REQUIRED X DIMENSION FROM ANY PERIMETER BREAK OR HEEL JOINT AND A MINIMUM OF 6" FROM ANY INTERIOR JOINT (SEE SKETCH ABOVE)

DO NOT USE REPAIR FOR JOINT SPLICES

NOTES

- THIS REPAIR DETAIL IS TO BE USED ONLY FOR THE APPLICATION SHOWN. THIS REPAIR DOES
 NOT IMPLY THAT THE REMAINING PORTION OF THE TRUSS IS UNDAMAGED. THE ENTIRE TRUSS
 SHALL BE INSPECTED TO VERIFY THAT NO FURTHER REPAIRS ARE REQUIRED. WHEN THE REQUIRED
 REPAIRS ARE PROPERLY APPLIED, THE TRUSS WILL BE CAPABLE OF SUPPORTING THE LOADS INDICATED.
- 2. ALL MEMBERS MUST BE RETURNED TO THEIR ORIGINAL POSITIONS BEFORE APPLING REPAIR AND HELD IN PLACE DURING APPLICATION OF REPAIR
- THE END DISTANCE, EDGE DISTANCE AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID UNUSUAL SPLITTING OF THE WOOD. WHEN NAILING THE SCABS, THE USE OF A BACKUP WEIGHT IS RECOMMENDED TO AVOID
- LOOSENING OF THE CONNECTOR PLATES AT THE JOINTS OR SPLICES.
 THIS REPAIR IS TO BE USED FOR SINGLE PLY TRUSSES IN THE 2x_ ORIENTATION ONLY.
- 6. THIS REPAIR IS LIMITED TO TRUSSES WITH NO MORE THAN THREE BROKEN MEMBERS.

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LATERAL TOE-NAIL DETAIL

MII-TOENAIL SP T23399818

MiTek USA. Inc.

Page 1 of 1



NOTES:

- TOE-NAILS SHALL BE DRIVEN AT AN ANGLE OF 45 DEGREES WITH THE MEMBER AND MUST HAVE FULL WOOD SUPPORT. (NAIL MUST BE DRIVEN THROUGH AND EXIT AT THE BACK CORNER OF THE MEMBER END AS SHOWN.
- 2. THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID UNUSUAL SPLITTING OF THE WOOD.
- 3. ALLOWABLE VALUE SHALL BE THE LESSER VALUE OF THE TWO SPECIES FOR MEMBERS OF DIFFERENT SPECIES.

THIS DETAIL APPLICABLE TO THE THREE END DETAILS SHOWN BELOW

> VIEWS SHOWN ARE FOR ILLUSTRATION PURPOSES ONLY

> > SIDE VIEW (2x3) 2 NAILS

> > > NEAR SIDE NEAR SIDE

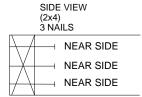
	TOE-NAIL SINGLE SHEAR VALUES PER NDS 2018 (lb/nail)											
	DIAM. SP DF HF SPF SPF-S											
9	.131	88.0	80.6	69.9	68.4	59.7						
LONG	.135	93.5	85.6	74.2	72.6	63.4						
.5" L	.162	108.8	99.6	86.4	84.5	73.8						
ω,												
ā	.128	74.2	67.9	58.9	57.6	50.3						
LONG	.131	75.9	69.5	60.3	59.0	51.1						
3.25"	.148	81.4	74.5	64.6	63.2 52.5							
3.2			•	•								

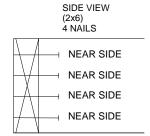
VALUES SHOWN ARE CAPACITY PER TOE-NAIL APPLICABLE DURATION OF LOAD INCREASES MAY BE APPLIED.

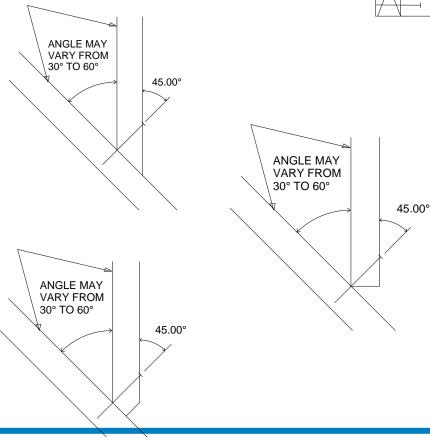
(3) - 16d (0.162" X 3.5") NAILS WITH SPF SPECIES BOTTOM CHORD

For load duration increase of 1.15:

3 (nails) X 84.5 (lb/nail) X 1.15 (DOL) = 291.5 lb Maximum Capacity







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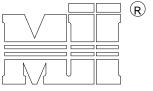


TRUSSED VALLEY SET DETAIL

MII-VALLEY HIGH WIND1 T23399819

MiTek USA, Inc.

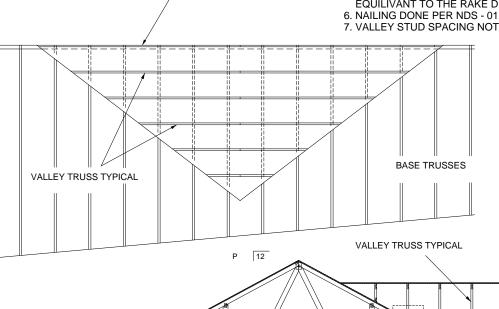
Page 1 of 1



MiTek USA, Inc.

GENERAL SPECIFICATIONS

- 1. NAIL SIZE 10d (0.131" X 3")
- 2. WOOD SCREW = 3" WS3 USP OR EQUIVALENT DO NOT USE DRYWALL OR DECKING TYPE SCREW
- 3. INSTALL VALLEY TRUSSES (24" O.C. MAXIMUM) AND SECURE PER DETAIL A
- 4. BRACE VALLEY WEBS IN ACCORDANCE WITH THE INDIVIDUAL DESIGN DRAWINGS.
- 5. BASE TRUSS SHALL BE DESIGNED WITH A PURLIN SPACING EQUILIVANT TO THE RAKE DIMENSION OF THE VALLEY TRUSS SPACING.
- 7. VALLEY STUD SPACING NOT TO EXCEED 48" O.C.



GABLE END, COMMON TRUSS

OR GIRDER TRUSS

GABLE END, COMMON TRUSS OR GIRDER TRUSS

SEE DETAIL A BELOW (TYP.)

SECURE VALLEY TRUSS W/ ONE ROW OF 10d NAILS 6" O.C. ATTACH 2x4 CONTINUOUS NO.2 SP TO THE ROOF W/ TWO USP WS3 (1/4" X 3") WOOD SCREWS INTO EACH BASE TRUSS. **DETAIL A** (NO SHEATHING) N.T.S.

WIND DESIGN PER ASCE 7-98, ASCE 7-02, ASCE 7-05 146 MPH WIND DESIGN PER ASCE 7-10, ASCE 7-16 160 MPH MAX MEAN ROOF HEIGHT = 30 FEET ROOF PITCH = MINIMUM 3/12 MAXIMUM 6/12 CATEGORY II BUILDING **EXPOSURE C** WIND DURATION OF LOAD INCREASE: 1.60 MAX TOP CHORD TOTAL LOAD = 50 PSF MAX SPACING = 24" O.C. (BASE AND VALLEY) MINIMUM REDUCED DEAD LOAD OF 6 PSF

ON THE TRUSSES

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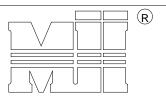
MiTek USA, Inc.

TRUSSED VALLEY SET DETAIL

MII-VALLEY HIGH WIND2 T23399820

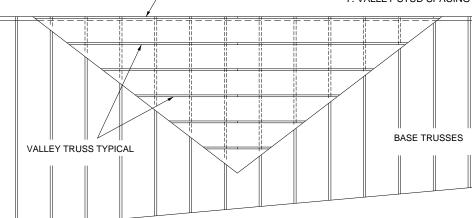
MiTek USA, Inc.

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GENERAL SPECIFICATIONS

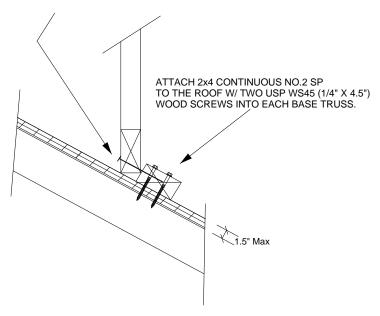
- 1. NAIL SIZE 10d (0.131" X 3")
- 2. WOOD SCREW = 4.5" WS45 USP OR EQUILIVANT
- 3. INSTALL SHEATHING TO TOP CHORD OF BASE TRUSSES.
- INSTALL SHEATING TO TOP CHORD OF BASE TRUS
 INSTALL VALLEY TRUSSES (24" O.C. MAXIMUM) AND
 SECURE TO BASE TRUSSES AS PER DETAIL A
 BRACE VALLEY WEBS IN ACCORDANCE WITH THE
- INDIVIDUAL DESIGN DRAWINGS.
- 6. NAILING DONE PER NDS-01
- 7. VALLEY STUD SPACING NOT TO EXCEED 48" O.C.



GABLE END, COMMON TRUSS OR GIRDER TRUSS

> GABLE END, COMMON TRUSS VALLEY TRUSS TYPICAL OR GIRDER TRUSS 12 SEE DETAIL A BELOW (TYP.)

SECURE VALLEY TRUSS W/ ONE ROW OF 10d NAILS 6" O.C.



WIND DESIGN PER ASCE 7-98, ASCE 7-02, ASCE 7-05 146 MPH WIND DESIGN PER ASCE 7-10, ASCE 7-16 160 MPH MAX MEAN ROOF HEIGHT = 30 FEET ROOF PITCH = MINIMUM 3/12 MAXIMUM 6/12 CATEGORY II BUILDING EXPOSURE C WIND DURATION OF LOAD INCREASE: 1.60 MAX TOP CHORD TOTAL LOAD = 50 PSF MAX SPACING = 24" O.C. (BASE AND VALLEY)
MINIMUM REDUCED DEAD LOAD OF 6 PSF ON THE TRUSSES

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Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

April 2,2021



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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

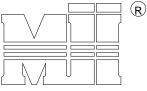


TRUSSED VALLEY SET DETAIL

MII-VALLEY SP T23399821

MiTek USA, Inc.

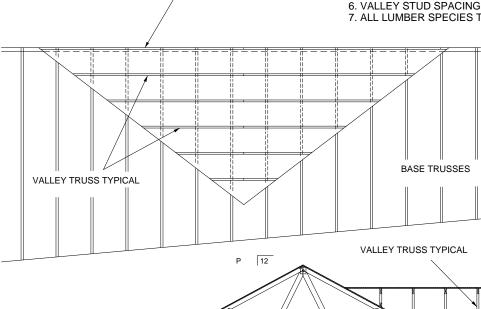
Page 1 of 1



MiTek USA, Inc.

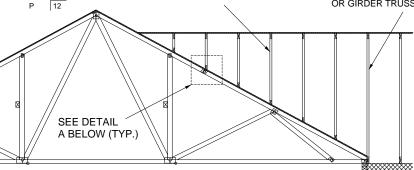
GENERAL SPECIFICATIONS

- 1. NAIL SIZE 16d (0.131" X 3.5")
- 2. INSTALL VALLÈY TRUSSES (24" O.C. MAXIMUM) AND SECURE PER DETAIL A
- 3. BRACE VALLEY WEBS IN ACCORDANCE WITH THE INDIVIDUAL DESIGN DRAWINGS.
- 4. BASE TRUSS SHALL BE DESIGNED WITH A PURLIN SPACING EQUILIVANT TO THE RAKE DIMENSION OF THE VALLEY TRUSS SPACING.
- 5. NAILING DONE PER NDS 01
- 6. VALLEY STUD SPACING NOT TO EXCEED 48" O.C.
- 7. ALL LUMBER SPECIES TO BE SP.



GABLE END, COMMON TRUSS OR GIRDER TRUSS

GABLE END, COMMON TRUSS OR GIRDER TRUSS



SECURE VALLEY TRUSS W/ ONE ROW OF 16d NAILS 6" O.C. ATTACH 2x4 CONTINUOUS NO.2 SP TO THE ROOF W/ TWO 16d NAILS INTO EACH BASE TRUSS. THE REAL PROPERTY. **DETAIL A** (MAXIMUM 1" SHEATHING) N.T.S.

WIND DESIGN PER ASCE 7-98, ASCE 7-02, ASCE 7-05 120 MPH WIND DESIGN PER ASCE 7-10, ASCE 7-16 150 MPH MAX MEAN ROOF HEIGHT = 30 FEET ROOF PITCH = MINIMUM 3/12 MAXIMUM 10/12 CATEGORY II BUILDING EXPOSURE C OR B
WIND DURATION OF LOAD INCREASE: 1.60
MAX TOP CHORD TOTAL LOAD = 60 PSF
MAX SPACING = 24" O.C. (BASE AND VALLEY)
MINIMUM REDUCED DEAD LOAD OF 4.2 PSF ON THE TRUSSES

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Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

April 2,2021

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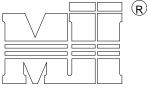


TRUSSED VALLEY SET DETAIL

MII-VALLEY SP T23399822

MiTek USA, Inc.

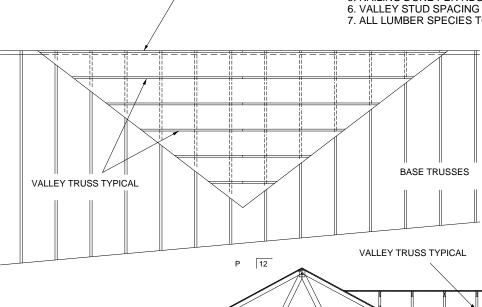
Page 1 of 1



MiTek USA, Inc.

GENERAL SPECIFICATIONS

- 1. NAIL SIZE 16d (0.131" X 3.5")
- 2. INSTALL VALLÈY TRUSSES (24" O.C. MAXIMUM) AND SECURE PER DETAIL A
- 3. BRACE VALLEY WEBS IN ACCORDANCE WITH THE INDIVIDUAL DESIGN DRAWINGS.
- 4. BASE TRUSS SHALL BE DESIGNED WITH A PURLIN SPACING EQUILIVANT TO THE RAKE DIMENSION OF THE VALLEY TRUSS SPACING.
- 5. NAILING DONE PER NDS 01
- 6. VALLEY STUD SPACING NOT TO EXCEED 48" O.C.
- 7. ALL LUMBER SPECIES TO BE SP.



GABLE END, COMMON TRUSS OR GIRDER TRUSS

GABLE END, COMMON TRUSS OR GIRDER TRUSS

SEE DETAIL A BELOW (TYP.) SECURE VALLEY TRUSS

W/ ONE ROW OF 16d NAILS 6" O.C. ATTACH 2x4 CONTINUOUS NO.2 SP TO THE ROOF W/ TWO 16d NAILS INTO EACH BASE TRUSS. THE REAL PROPERTY. **DETAIL A** (MAXIMUM 1" SHEATHING) N.T.S.

WIND DESIGN PER ASCE 7-98, ASCE 7-02, ASCE 7-05 120 MPH WIND DESIGN PER ASCE 7-10, ASCE 7-16 150 MPH MAX MEAN ROOF HEIGHT = 30 FEET ROOF PITCH = MINIMUM 3/12 MAXIMUM 10/12 CATEGORY II BUILDING EXPOSURE C OR B WIND DURATION OF LOAD INCREASE: 1.60 MAX TOP CHORD TOTAL LOAD = 60 PSF MAX SPACING = 24" O.C. (BASE AND VALLEY) MINIMUM REDUCED DEAD LOAD OF 4.2 PSF ON THE TRUSSES

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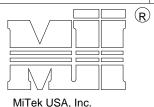
Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

Standard Gable End Detail

MII-GE146-001 T23399823



Page 1 of 2



Typical _x4 L-Brace Nailed To 2x_ Verticals W/10d Nails spaced 6" o.c. Vertical Stud SECTION B-B

DIAGONAL BRACE TRUSS GEOMETRY AND CONDITIONS 4'-0" O.C. MAX SHOWN ARE FOR ILLUSTRATION ONLY. Varies to Common Truss SEE INDIVIDUAL MITEK ENGINEERING DRAWINGS FOR DESIGN CRITERIA 3x4 =Ŕ

- L-Bracing Refer

to Section B-B

Vertical Stud DIAGONAL (4) - 16d Nails 16d Nails Spaced 6" o.c. (2) - 10d Nails into 2x6 2x6 Stud or 2x4 No.2 of better Typical Horizontal Brace Nailed To 2x_ Verticals w/(4)-10d Nails **SECTION A-A** 2x4 Stud

> PROVIDE 2x4 BLOCKING BETWEEN THE FIRST TWO TRUSSES AS NOTED. TOENAIL BLOCKING TO TRUSSES WITH (2) - 10d NAILS AT EACH END. ATTACH DIAGONAL BRACE TO BLOCKING WITH (5) - 10d NAILS.

(4) - 8d (0.131" X 2.5") NAILS MINIMUM, PLYWOOD SHEATHING TO 2x4 STD SP BLOCK

NOTE:

Diagonal Bracing

Refer to Section A-A

- 1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS.
- 2. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.
- 3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY. CONSULT BLDG. ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT BRACING OF ROOF SYSTEM.
- 4. "L" BRACES SPECIFIED ARE TO BE FULL LENGTH. GRADES: 2x4 No 3/STUD SP OR BETTER WITH ONE ROW OF 10d NAILS SPACED 6" O.C.
- 5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF DIAPHRAM AT 4'-0" O.C.
- 6. CONSTRUCT HORIZONTAL BRACE CONNECTING A 2x6 STUD AND A 2x4 STUD AS SHOWN WITH 16d NAILS SPACED 6" O.C. HORIZONTAL BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST STUD. ATTACH TO VERTICAL STUDS WITH (4) 10d NAILS THROUGH 2x4. (REFER TO SECTION A-A)
- 7. GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240.
- THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES
- DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR TYPE TRUSSES
- 10. NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

Minimum Stud Size Species	Stud Spacing	Without Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS
and Grade		Maxir	num Stud Le	ength	
2x4 SP No 3/Stud	12" O.C.	3-11-3	6-8-0	7-2-14	11-9-10
2x4 SP No 3/Stud	16" O.C.	3-6-14	5-9-5	7-1-13	10-8-11
2x4 SP No 3/Stud	24" O.C.	3-1-8	4-8-9	6-2-15	9-4-7

Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 I-braces attached to both edges. Fasten T and I braces to narrow edge of web with 10d nails 8" o.c., with 3" minimum end distance. Brace must cover 90% of diagonal length.

Roof Sheathing 24" Max 1'-3' (2) - 10d/ Max. **NÁILS** (2) - 10d NAILS Trusses @ 24" o.c. 2x6 DIAGONAL BRACE SPACED 48" O.C. Diag. Brace ATTACHED TO VERTICAL WITH (4) -16d at 1/3 points NAILS AND ATTACHED TO BLOCKING WITH (5) - 10d NAILS. if needed HORIZONTAL BRACE **End Wall** (SEE SECTION A-A)

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April 2,2021

MAXIMUM WIND SPEED = 146 MPH MAX MEAN ROOF HEIGHT = 30 FEET CATEGORY II BUILDING EXPOSURE B or C

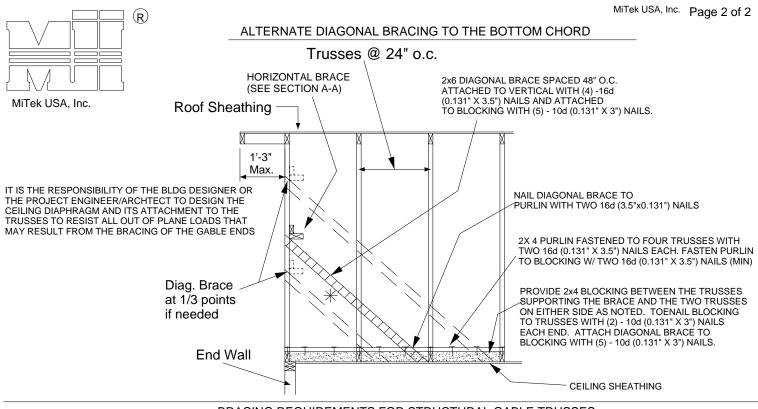
ASCE 7-98, ASCE 7-02, ASCE 7-05
STUD DESIGN IS BASED ON COMPONENTS AND CLADDING.
DURANOMONONO ON COMPONENTS AND CLADDING.
DURANOMONO ON COMPONENTS AND CLADDING.
DURANOMONO ON COMPONENTS AND CLADDING.

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Standard Gable End Detail

MII-SHEET 2 T23399823



BRACING REQUIREMENTS FOR STRUCTURAL GABLE TRUSSES

STRUCTURAL GABLE TRUSSES MAY BE BRACED AS NOTED: METHOD 1: ATTACH A MATCHING GABLE TRUSS TO THE INSIDE FACE OF THE STRUCTURAL GABLE AND FASTEN PER THE

FOLLOWING NAILING SCHEDULE.

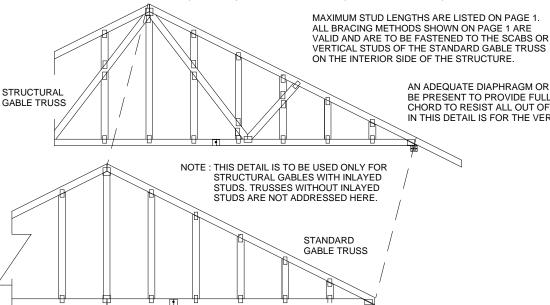
METHOD 2: ATTACH 2X SCABS TO THE FACE OF EACH VERTICAL

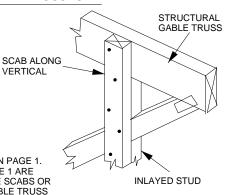
MEMBER ON THE STRUCTURAL GABLE PER THE FOLLOWING

NAILING SCHEDULE. SCABS ARE TO BE OF THE SAME SIZE, GRADE AND SPECIES AS THE TRUSS VERTICALS

FOR WIND SPEEDS 120 MPH (ASCE 7-98, 02, 05), 150 MPH (ASCE 7-10, 16) OR LESS, NAIL ALL MEMBERS WITH ONE ROW OF 10d (0.131" X 3") NAILS SPACED 6" O.C. - FOR WIND SPEEDS 120-150 MPH (ASCE 7-98, 02, 05), 150-190 MPH (ASCE 7-10, 16) NAIL ALL

MEMBERS WITH TWO ROWS OF 10d (0.131" X 3") NAILS SPACED 6" O.C. (2X 4 STUDS MINIMUM)





AN ADEQUATE DIAPHRAGM OR OTHER METHOD OF BRACING MUST BE PRESENT TO PROVIDE FULL LATERAL SUPPORT OF THE BOTTOM CHORD TO RESIST ALL OUT OF PLANE LOADS. THE BRACING SHOWN IN THIS DETAIL IS FOR THE VERTICAL/STUDS ONLY.

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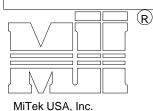
OCTOBER 5, 2016

REPLACE BROKEN OVERHANG

MII-REP13B T23399824

MiTek USA. Inc.

Page 1 of 1



TRUSS CRITERIA:

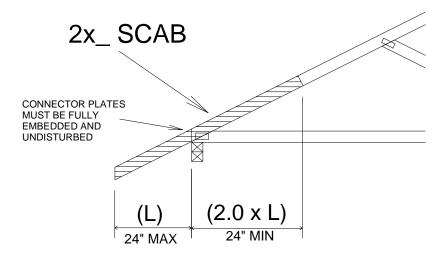
LOADING: 40-10-0-10 DURATION FACTOR: 1.15 SPACING: 24" O.C. TOP CHORD: 2x4 OR 2x6 PITCH: 4/12 - 12/12

HEEL HEIGHT: STANDARD HEEL UP TO 12" ENERGY HEEL

END BEARING CONDITION

NOTES:

- 1. ATTACH 2x_ SCAB (MINIMUM NO.2 GRADE SPF, HF, SP, DF) TO ONE FACE OF TRUSS WITH TWO ROWS OF 10d (0.131" X 3") SPACED 6" O.C.
- 2. THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID UNUSUAL SPLITTING OF THE WOOD.
- 3. WHEN NAILING THE SCABS, THE USE OF A BACKUP WEIGHT IS RECOMMENDED TO AVOID LOOSENING OF THE CONNECTOR PLATES AT THE JOINTS OR SPLICES.



IMPORTANT

This detail to be used only with trusses (spans less than 40') spaced 24" o.c. maximum and having pitches between 4/12 and 12/12 and total top chord loads not exceeding 50 psf.

Trusses not fitting these criteria should be examined individually.

REFER TO INDIVIDUAL TRUSS DESIGN FOR PLATE SIZES AND LUMBER GRADES This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

April 2,2021



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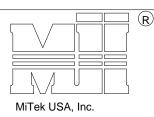
available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



6904 Parke East Blvd. Tampa, FL 36610

MiTek USA, Inc.

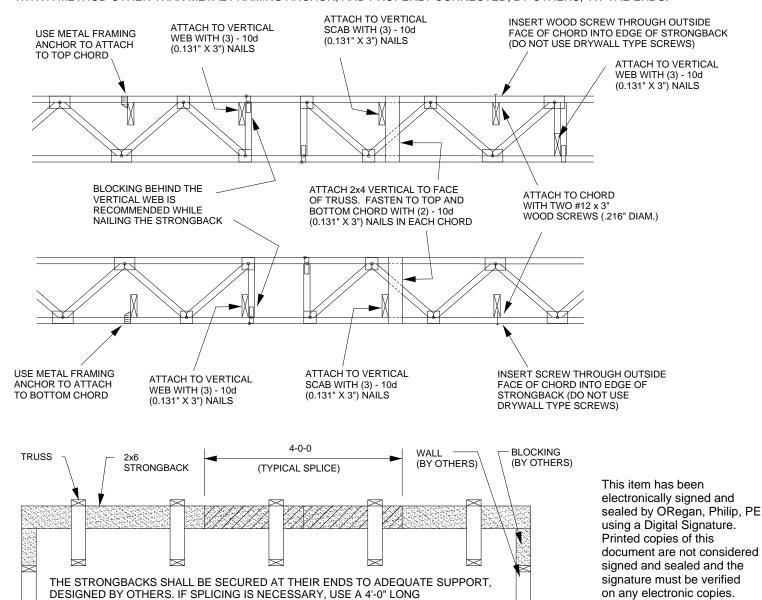
Page 1 of 1



TO MINIMIZE VIBRATION COMMON TO ALL SHALLOW FRAMING SYSTEMS, 2x6 "STRONGBACK" IS RECOMMENDED, LOCATED EVERY 8 TO 10 FEET ALONG A FLOOR TRUSS.

NOTE 1: 2X6 STRONGBACK ORIENTED VERTICALLY MAY BE POSITIONED DIRECTLY UNDER THE TOP CHORD OR DIRECTLY ABOVE THE BOTTOM CHORD. SECURELY FASTENED TO THE TRUSS USING ANY OF THE METHODS ILLUSTRATED BELOW.

NOTE 2: STRONGBACK BRACING ALSO SATISFIES THE LATERAL BRACING REQUIREMENTS FOR THE BOTTOM CHORD OF THE TRUSS WHEN IT IS PLACED ON TOP OF THE BOTTOM CHORD, IS CONTINUOUS FROM END TO END, CONNECTED WITH A METHOD OTHER THAN METAL FRAMING ANCHOR, AND PROPERLY CONNECTED, BY OTHERS, AT THE ENDS.



(0.131" X 3") NAILS EQUALLY SPACED.
ALTERNATE METHOD OF SPLICING:

OVERLAP STRONGBACK MEMBERS A MINIMUM OF 4'-0" AND FASTEN WITH (12) - 10d (0.131" X 3") NAILS STAGGERED AND EQUALLY SPACED.

(TO BE USED ONLY WHEN STRONGBACK IS NOT ALIGNED WITH A VERTICAL)

SCAB CENTERED ON THE SPLICE AND JOINED WITH (12) - 10d

April 2,2021

Philip J. O'Regan PE No.58126

MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

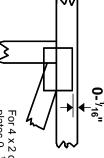


Symbols

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

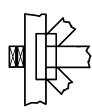
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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



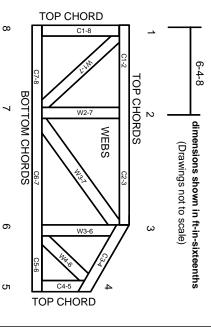
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

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.
- 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.



RE: 3796572 - JFC HOMES - COPPOCK RES.

MiTek, Inc.

Site Information:

16023 Swingley Ridge Rd.

Chesterfield, MO 63017 Customer Info: JOHN F CRAWFORD HOMES Project Name: Coppock Res. Model 1. Customer Info: JOHN F CRAWFORD HOMES Project Name: Coppock Res.

Lot/Block: N/A Subdivision: N/A

Address: TBD, TBD

City: Bradford Cty State: FL

Name Address and License # of Structural Engineer of Record, If there is one, for the building.

Name: License #:

Address:

City: State:

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special **Loading Conditions):**

Design Code: FBC2023/TPI2014 Design Program: MiTek 20/20 8.7

Wind Code: N/A Wind Speed: 130 mph Roof Load: 37.0 psf Floor Load: N/A psf

This package includes 50 individual, Truss Design Drawings and 0 Additional Drawings. With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T32355138	CJ01	12/14/23	15	T32355152	HJ08	12/14/23
2	T32355139	CJ01C	12/14/23	16	T32355153	HJ10	12/14/23
3	T32355140	CJ03	12/14/23	17	T32355154	HJ10A	12/14/23
4	T32355141	CJ03A	12/14/23	18	T32355155	HJ11	12/14/23
5	T32355142	CJ03B	12/14/23	19	T32355156	T01	12/14/23
6	T32355143	CJ03C	12/14/23	20	T32355157	T02	12/14/23
7	T32355144	CJ05	12/14/23	21	T32355158	T03	12/14/23
8	T32355145	CJ05A	12/14/23	22	T32355159	T04	12/14/23
9	T32355146	CJ05C	12/14/23	23	T32355160	T05	12/14/23
10	T32355147	CJ07C	12/14/23	24	T32355161	<u>T06</u>	12/14/23
11	T32355148	EJ01	12/14/23	25	T32355162	<u>T</u> 07	12/14/23
12	T32355149	EJ02	12/14/23	26	T32355163	<u>T</u> 08	12/14/23
13	T32355150	EJ03	12/14/23	27	T32355164	<u>T</u> 09	12/14/23
14	T32355151	EJ04	12/14/23	28	T32355165	T10	12/14/23

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature Printed copies of this document are not considered signed and sealed and the signature must be ver

The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Builders FirstSource-Lake City, FL.

Truss Design Engineer's Name: ORegan, Philip

My license renewal date for the state of Florida is February 28, 2025.

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.



MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

December 14,2023



RE: 3796572 - JFC HOMES - COPPOCK RES.

MiTek, Inc. 16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200

Site Information:

Customer Info: JOHN F CRAWFORD HOMES Project Name: Coppock Res. Model: Custom

Lot/Block: N/A Subdivision: N/A Address: TBD, TBD

City: Bradford Cty State: FL

 No.
 Seal#
 Truss Name
 Date

 29
 T32355166
 T11
 12/14/23

 30
 T32355167
 T12
 12/14/23

 31
 T32355168
 T13
 12/14/23

 32
 T32355169
 T14
 12/14/23

 33
 T32355170
 T15
 12/14/23

 34
 T32355171
 T16
 12/14/23

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 T32355172
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 36
 T32355173
 T18
 12/14/23

 37
 T32355174
 T19
 12/14/23

 38
 T32355175
 T20
 12/14/23

 39
 T32355176
 T21
 12/14/23

 40
 T32355178
 T23
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 41
 T32355178
 T23
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 42
 T32355179
 T24
 12/14/23

 43
 T32355180
 T25
 12/14/23

 44
 T32355181
 T26
 12/14/23

 47
 T32355183
 T28
 12/14/23



-1-6-0 1-6-0

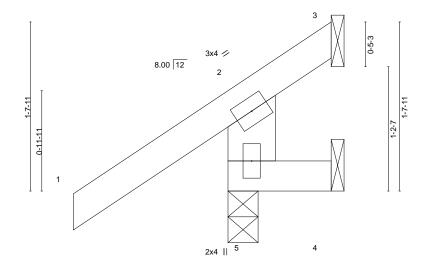
Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.730 s Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 09:51:38 2023 Page 1 ID:seNP1Zwi1gK8E4Huxq4VYny9kO1-V8lqkdKzSqwHkxOXScjBJ8hC13Ot077Jd4PfB2y9Pxp

Structural wood sheathing directly applied or 1-0-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

Scale = 1:11.2



i	1-0-0
	1-0-0

except end verticals

1-0-0

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/de	efl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.42	Vert(LL) 0.00 5 >99	99 240	MT20 244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.06	Vert(CT) 0.00 5 >99	99 180	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00 3 n	n/a n/a	
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MR			Weight: 8 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2

2x6 SP No.2 WFBS

> (size) 5=0-3-8, 3=Mechanical, 4=Mechanical Max Horz 5=61(LC 12) Max Uplift 5=-98(LC 12), 3=-43(LC 1), 4=-35(LC 1)

> Max Grav 5=228(LC 1), 3=16(LC 16), 4=13(LC 16)

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

TOP CHORD 2-5=-178/337

NOTES-

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl. GCpi=0.18; MWFRS (envelope) gable end zone and C-C zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * 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.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3, 4.

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

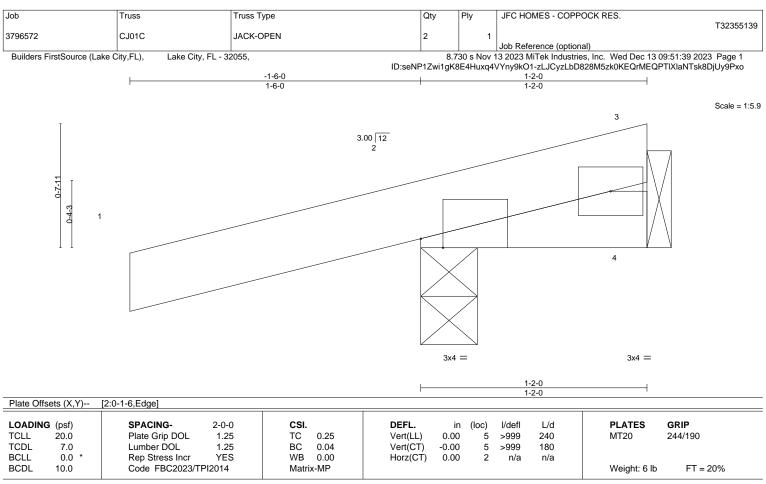
Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

December 14,2023









LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 BRACING-

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 1-2-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 4=Mechanical

Max Horz 2=39(LC 8)

Max Uplift 2=-178(LC 8), 4=-16(LC 1) Max Grav 2=176(LC 1), 4=26(LC 16)

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

NOTES-

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * 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.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 2=178.

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Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

December 14,2023



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-1-6-0 1-6-0

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

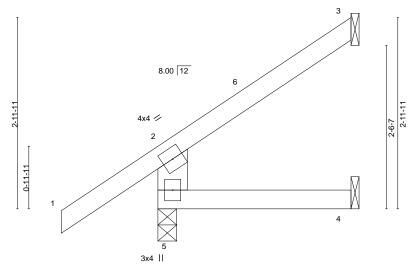
8.730 s Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 09:51:40 2023 Page 1 ID:seNP1Zwi1gK8E4Huxq4VYny9kO1-RXta9JMD_RA?_EYwa1lfOZnYXt3rU1dc5OumGxy9Pxn

Structural wood sheathing directly applied or 3-0-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals

Scale = 1:17.9



3-0-0 3-0-0

BRACING-

TOP CHORD

BOT CHORD

LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.42	Vert(LL)	0.01	4-5	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.16	Vert(CT)	-0.01	4-5	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCDL	10.0	Code FBC2023/TI	PI2014	Matri	x-MR						Weight: 14 lb	FT = 20%

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2

2x6 SP No.2 WFBS

(size) 5=0-3-8, 3=Mechanical, 4=Mechanical

Max Horz 5=125(LC 12)

Max Uplift 5=-67(LC 12), 3=-78(LC 12), 4=-10(LC 12) Max Grav 5=223(LC 1), 3=69(LC 19), 4=47(LC 3)

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

TOP CHORD 2-5=-188/293

NOTES-

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C 1-6-0 to 2-11-4 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * 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.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3, 4.

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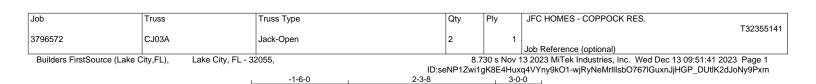
Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

December 14,2023



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1-6-0

Scale = 1:17.9 8.00 12 12 4x4 / 2x4 || 5 0-11-11 2x4 || 2x4

3-0-0

0-8-8

except end verticals.

Structural wood sheathing directly applied or 3-0-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

0-8-8

LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.42	Vert(LL)	-0.00	11	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.17	Vert(CT)	-0.00	6	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code FBC2023/TF	PI2014	Matri	x-MR	, ,					Weight: 18 lb	FT = 20%

2-3-8

2-3-8

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

6-7: 2x4 SP No.3 WFBS 2x6 SP No.2

REACTIONS.

(size) 8=0-3-8, 4=Mechanical, 5=Mechanical

Max Horz 8=125(LC 12)

Max Uplift 8=-62(LC 12), 4=-56(LC 12), 5=-28(LC 12) Max Grav 8=242(LC 1), 4=59(LC 19), 5=72(LC 3)

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

TOP CHORD 2-8=-207/279

NOTES-

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C 1-6-0 to 2-11-4 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * 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.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 4, 5.

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Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

December 14,2023



👠 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



Job	Truss	Truss Type	Qty	Ply	JFC HOMES - COPPOCK RES.
					T32355142
3796572	CJ03B	Jack-Open	1	1	
					Job Reference (optional)

Lake City, FL - 32055, Builders FirstSource (Lake City,FL),

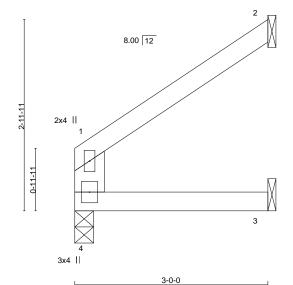
8.730 s Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 09:51:42 2023 Page 1 ID:seNP1Zwi1gK8E4Huxq4VYny9kO1-Ow_La_NTW3QjDYiJhSn7T_sxJgjByw7vYiNtKpy9Pxl

Structural wood sheathing directly applied or 3-0-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

Scale = 1:17.9



LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.21	Vert(LL)	0.01	3-4	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.23	Vert(CT)	-0.01	3-4	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.02	2	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI	12014	Matri	x-MR						Weight: 12 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

3-0-0

LUMBER-

REACTIONS.

WFBS

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2

2x6 SP No.2

(size) 4=0-3-8, 2=Mechanical, 3=Mechanical

Max Horz 4=90(LC 12)

Max Uplift 2=-87(LC 12), 3=-18(LC 12)

Max Grav 4=100(LC 1), 2=81(LC 19), 3=51(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * 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.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 3.

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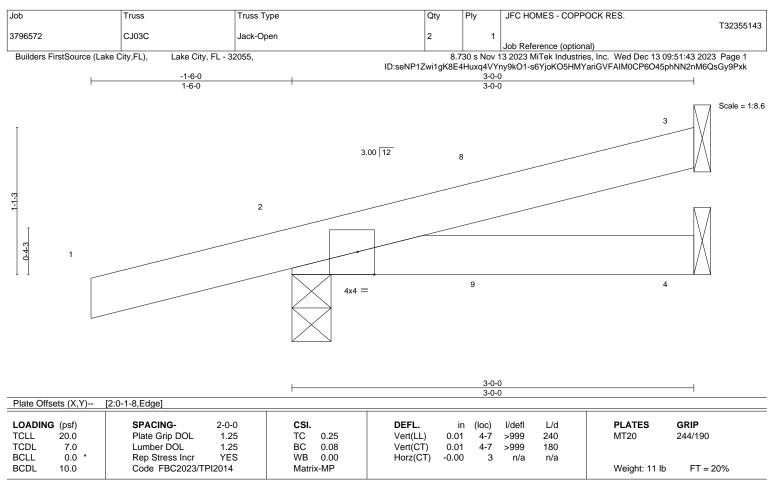
Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

December 14,2023









LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 BRACING-

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 3-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical

Max Horz 2=61(LC 8)

Max Uplift 3=-45(LC 8), 2=-192(LC 8), 4=-26(LC 9) Max Grav 3=57(LC 1), 2=210(LC 1), 4=47(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C 1-6-0 to 2-11-4 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * 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.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 2=192.

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Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

December 14,2023



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.





-1-6-0 1-6-0

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

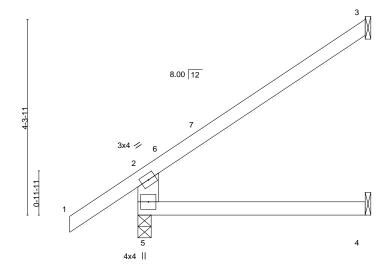
8.730 s Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 09:51:44 2023 Page 1 ID:seNP1Zwi1gK8E4Huxq4VYny9kO1-KI65?gPj2ggRSsrhptpbYPxCMULTQqdC0?s_Piy9Pxj

Structural wood sheathing directly applied or 5-0-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals

Scale = 1:25.3



LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.55	Vert(LL)	0.06	4-5	>954	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.50	Vert(CT)	-0.06	4-5	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.06	3	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI	2014	Matri	x-MR						Weight: 21 lb	FT = 20%

5-0-0

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

WFBS

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2

> 2x6 SP No.2 (size) 5=0-3-8, 3=Mechanical, 4=Mechanical

Max Horz 5=192(LC 12) Max Uplift 5=-73(LC 12), 3=-136(LC 12), 4=-16(LC 12) Max Grav 5=285(LC 1), 3=131(LC 19), 4=86(LC 3)

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

TOP CHORD 2-5=-240/324

NOTES-

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C 1-6-0 to 4-11-4 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * 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.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 4 except (jt=lb) 3=136.

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Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

December 14,2023



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.





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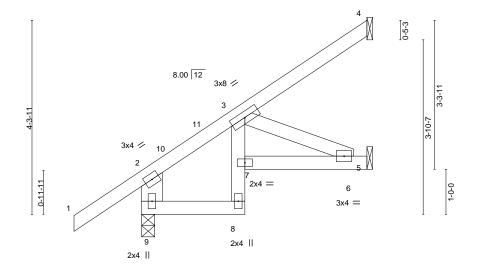
5-0-0

except end verticals.

Structural wood sheathing directly applied or 5-0-0 oc purlins,

Rigid ceiling directly applied or 9-3-4 oc bracing.

Scale = 1:25.6



LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.42	Vert(LL)	-0.01	7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.43	Vert(CT)	-0.01	6-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.13	Horz(CT)	-0.02	5	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI	2014	Matri	x-MS						Weight: 27 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

3-8: 2x4 SP No.3 WFBS

2x6 SP No.2 *Except* 3-6: 2x4 SP No.3

REACTIONS. (size) 9=0-3-8, 4=Mechanical, 5=Mechanical

Max Horz 9=192(LC 12)

Max Uplift 9=-73(LC 12), 4=-73(LC 12), 5=-79(LC 12) Max Grav 9=285(LC 1), 4=78(LC 19), 5=112(LC 19)

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

TOP CHORD 2-9=-247/300 **BOT CHORD** 6-7=-396/289 **WEBS** 3-6=-313/430

NOTES-

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C 1-6-0 to 4-11-4 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * 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.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 4, 5.

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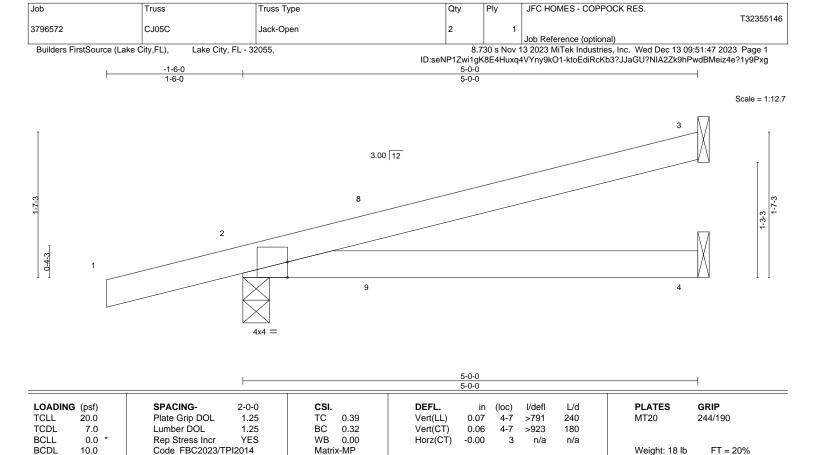
Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

December 14,2023



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BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No 2

(size) 3=Mechanical, 2=0-3-8, 4=Mechanical

Max Horz 2=86(LC 8)

Max Uplift 3=-90(LC 8), 2=-238(LC 8), 4=-50(LC 8) Max Grav 3=110(LC 1), 2=276(LC 1), 4=85(LC 3)

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

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C 1-6-0 to 4-11-4 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * 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.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 2=238.

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Structural wood sheathing directly applied or 5-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

December 14,2023

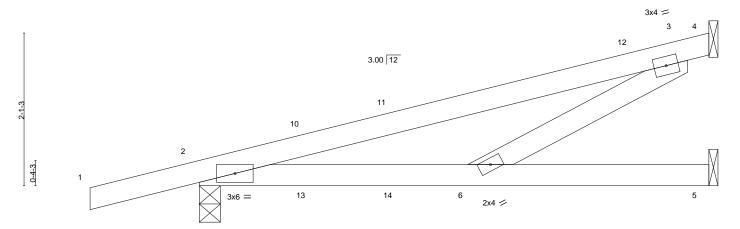


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Scale = 1:15.8



4-0-0

	<u> </u>	4-0-0					3-0-0					
LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.25	TC	0.68	Vert(LL)	0.07	6-9	>999	240	MT20	244/190	
TCDL 7.0	Lumber DOL	1.25	ВС	0.56	Vert(CT)	-0.06	6-9	>999	180			
BCLL 0.0 *	Rep Stress Incr	YES	WB	0.15	Horz(CT)	-0.00	2	n/a	n/a			
BCDL 10.0	Code FBC2023	TPI2014	Matri	x-MS						Weight: 29 lb	FT = 20%	

LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 2x4 SP No.3 WFBS

BRACING-

TOP CHORD BOT CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.

7-0-0

Rigid ceiling directly applied or 6-7-5 oc bracing.

REACTIONS. (size) 4=Mechanical, 2=0-3-8, 5=Mechanical

Max Horz 2=111(LC 8)

1-6-0

Max Uplift 4=-196(LC 8), 2=-290(LC 8), 5=-15(LC 9) Max Grav 4=237(LC 1), 2=346(LC 1), 5=48(LC 3)

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

TOP CHORD 2-3=-374/481 **BOT CHORD** 2-6=-521/318 **WEBS** 3-6=-603/368

NOTES-

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C 1-6-0 to 6-11-4 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * 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.
- 5) Refer to girder(s) for truss to truss connections
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 4=196, 2=290.

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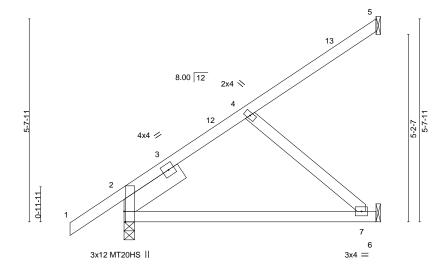
Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.730 s Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 09:51:49 2023 Page 1 ID:seNP1Zwi1gK8E4Huxq4VYny9kO1-hGv_2NTssCJjZdkfbQPmFTf6QV3354Jx9HZk4vy9Pxe

Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

Scale: 3/8"=1"



7-0-0	
7-0-0	

BRACING-

TOP CHORD

BOT CHORD

Plate Off	Sets (X,Y)	[2:0-3-8,Eage]										
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.28	Vert(LL)	-0.07	7-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.41	Vert(CT)	-0.14	7-10	>609	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.01	2	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2	2014	Matri	x-MS						Weight: 37 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No 2 BOT CHORD 2x4 SP No.2 2x4 SP No 3 WFBS

SLIDER Left 2x6 SP No.2 1-11-8

REACTIONS.

(size) 5=Mechanical, 2=0-3-8, 6=Mechanical

Max Horz 2=263(LC 12)

Max Uplift 5=-71(LC 12), 2=-86(LC 12), 6=-125(LC 12) Max Grav 5=88(LC 19), 2=346(LC 1), 6=199(LC 19)

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

TOP CHORD 2-4=-489/39 **BOT CHORD** 2-7=-253/189 **WEBS** 4-7=-251/336

NOTES-

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C 1-6-0 to 6-11-4 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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
- 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) 5, 2 except (jt=lb) 6=125.

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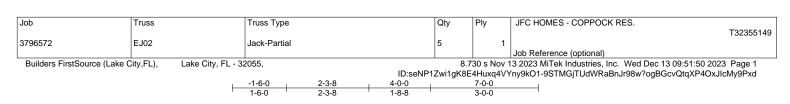
Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

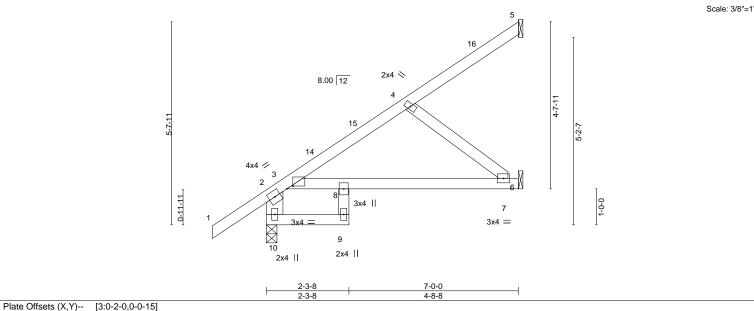
December 14,2023



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.







LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.38	Vert(LL)	0.08	7-8	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.37	Vert(CT)	-0.13	7-8	>631	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.05	6	n/a	n/a		
BCDL	10.0	Code FBC2023/TI	PI2014	Matri	x-MS	, ,					Weight: 36 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No 2

BOT CHORD 2x4 SP No.2 *Except* 8-9: 2x4 SP No.3

WEBS 2x6 SP No.2 *Except*

4-7: 2x4 SP No.3

REACTIONS.

(size) 10=0-3-8, 5=Mechanical, 6=Mechanical

Max Horz 10=249(LC 12)

Max Uplift 10=-90(LC 12), 5=-52(LC 12), 6=-141(LC 12) Max Grav 10=354(LC 1), 5=66(LC 19), 6=211(LC 19)

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

TOP CHORD 2-10=-326/299 **BOT CHORD** 7-8=-289/214 WEBS 4-7=-273/368

NOTES-

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C 1-6-0 to 6-11-4 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * 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
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 5 except (jt=lb) 6=141.

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

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

except end verticals.

6-0-0 oc bracing: 9-10.

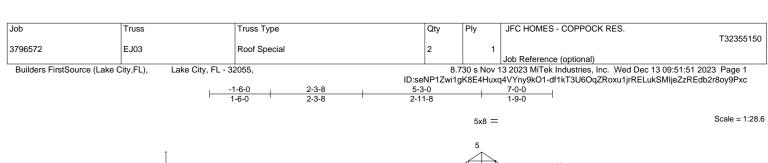
Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

December 14,2023



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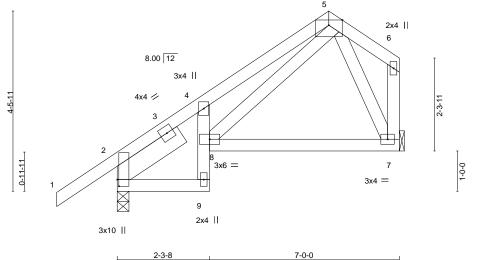


Plate Offs	sets (X,Y)	[2:0-2-0,0-0-8]											
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.31	Vert(LL)	-0.02	7-8	>999	240	MT20	244/190	
TCDL	7.0	Lumber DOL	1.25	ВС	0.53	Vert(CT)	-0.05	7-8	>999	180			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.19	Horz(CT)	0.02	7	n/a	n/a			
BCDL	10.0	Code FBC2023/T	PI2014	Matri	x-MS						Weight: 47 lb	FT = 20%	

BRACING-TOP CHORD

BOT CHORD

4-8-8

except end verticals.

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

Rigid ceiling directly applied or 10-0-0 oc bracing.

LUMBER-TOP CHORD 2x4 SP No 2

2x4 SP No.2 *Except* BOT CHORD

4-9: 2x4 SP No.3

WEBS 2x4 SP No.3

SLIDER Left 2x6 SP No.2 1-11-8

REACTIONS. (size) 2=0-3-8, 7=Mechanical

Max Horz 2=187(LC 12)

Max Uplift 2=-128(LC 12), 7=-131(LC 12) Max Grav 2=343(LC 1), 7=246(LC 19)

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

TOP CHORD 4-5=-551/573 **BOT CHORD** 4-8=-227/311 WEBS 5-8=-486/491

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C 6-10-4 to 6-10-4 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.
- 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) except (jt=lb) 2=128, 7=131.

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Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

December 14,2023



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8.00 12 3x4 🥢 0-11-11

5-0-0
5-0-0

BRACING-

TOP CHORD

BOT CHORD

LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.55	Vert(LL)	0.06	4-5	>989	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.48	Vert(CT)	-0.05	4-5	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.05	3	n/a	n/a		
BCDL	10.0	Code FBC2023/TP	12014	Matri	x-MR						Weight: 21 lb	FT = 20%

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2

2x6 SP No.2 WFBS

(size) 5=0-3-8, 3=Mechanical, 4=Mechanical

Max Horz 5=205(LC 12)

Max Uplift 5=-72(LC 12), 3=-137(LC 12), 4=-17(LC 12) Max Grav 5=285(LC 1), 3=131(LC 19), 4=86(LC 3)

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

TOP CHORD 2-5=-240/323

NOTES-

1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C 1-6-0 to 4-11-4 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

1-6-0

2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

4x4 |

- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * 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.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 4 except (jt=lb) 3=137.

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Structural wood sheathing directly applied or 5-0-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals

Scale = 1:25.3

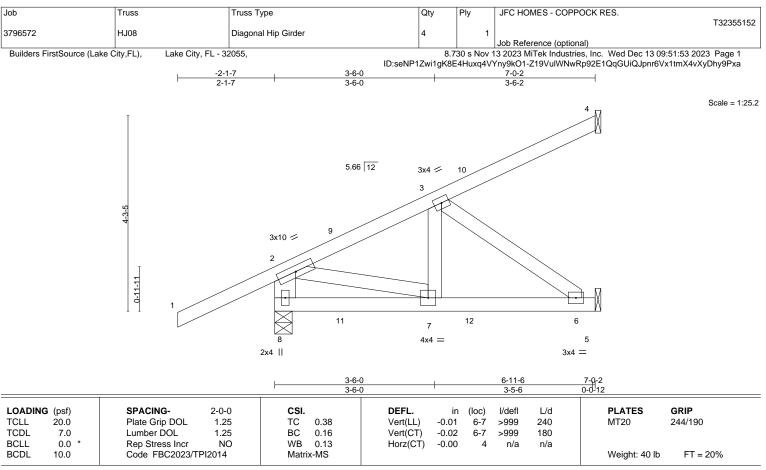
Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

December 14,2023



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LUMBER-

BRACING-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WFBS

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals

2x4 SP No.3 *Except*

BOT CHORD

2-8: 2x6 SP No.2

Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 8=0-4-9, 4=Mechanical, 5=Mechanical

Max Horz 8=192(LC 29)

Max Uplift 8=-168(LC 4), 4=-81(LC 8), 5=-111(LC 8) Max Grav 8=322(LC 38), 4=87(LC 21), 5=168(LC 35)

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

TOP CHORD 2-8=-314/157. 2-3=-328/117

BOT CHORD 7-8=-287/50

WFBS 2-7=-154/350, 3-6=-250/215

NOTES-

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * 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.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 8=168, 5=111.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 85 lb down and 120 lb up at 1-6-1, 85 lb down and 120 lb up at 1-6-1, and 114 lb down and 77 lb up at 4-4-0, and 114 lb down and 77 lb up at 4-4-0 on top chord, and 9 lb down and 62 lb up at 1-6-1, 9 lb down and 62 lb up at 1-6-1, and 29 lb down and 16 lb up at 4-4-0, and 29 lb down and 16 lb up at 4-4-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (plf)

Vert: 1-2=-54, 2-4=-54, 5-8=-20

Concentrated Loads (lb)

Vert: 9=61(F=31, B=31) 11=62(F=31, B=31) 12=6(F=3, B=3)

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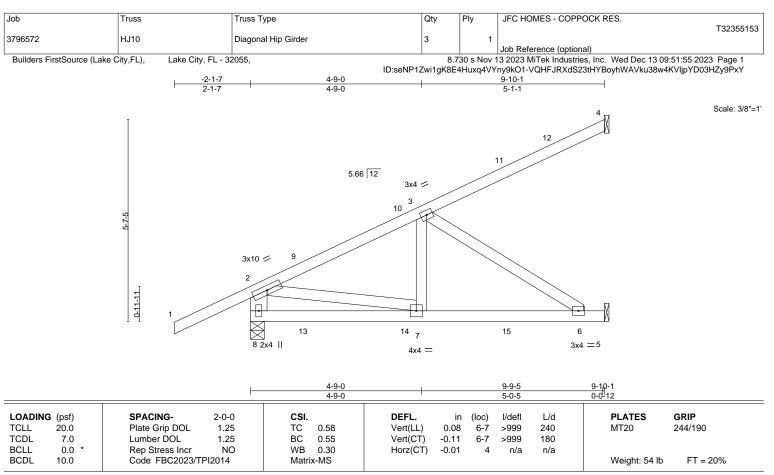
Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

December 14,2023



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE





BOT CHORD

LUMBER-

BRACING-TOP CHORD 2x4 SP No.2 TOP CHORD

BOT CHORD 2x4 SP No.2 2x4 SP No.3 *Except* WFBS

2-8: 2x6 SP No.2

REACTIONS. (size) 8=0-4-9, 4=Mechanical, 5=Mechanical

Max Horz 8=249(LC 8)

Max Uplift 8=-275(LC 4), 4=-146(LC 8), 5=-233(LC 8) Max Grav 8=471(LC 38), 4=137(LC 1), 5=316(LC 35)

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

TOP CHORD 2-8=-468/268 2-3=-620/323 BOT CHORD 7-8=-313/25. 6-7=-404/444 WFBS 2-7=-367/577, 3-6=-528/480

NOTES-

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * 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.
- 5) Refer to girder(s) for truss to truss connections
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=275, 4=146, 5=233.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 85 lb down and 120 lb up at 1-6-1, 85 lb down and 120 lb up at 1-6-1, 114 lb down and 77 lb up at 4-4-0, 114 lb down and 77 lb up at 4-4-0, and 150 lb down and 143 lb up at 7-1-15, and 150 lb down and 143 lb up at 7-1-15 on top chord, and 9 lb down and 62 lb up at 1-6-1, 9 lb down and 62 lb up at 1-6-1, 29 lb down and 16 lb up at 4-4-0, 29 lb down and 16 lb up at 4-4-0, and 52 lb down and 30 lb up at 7-1-15, and 52 lb down and 30 lb up at 7-1-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-2=-54, 2-4=-54, 5-8=-20

Vert: 9=61(F=31, B=31) 11=-62(F=-31, B=-31) 13=62(F=31, B=31) 14=6(F=3, B=3) 15=-43(F=-21, B=-21)

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

Rigid ceiling directly applied or 6-0-0 oc bracing.

except end verticals

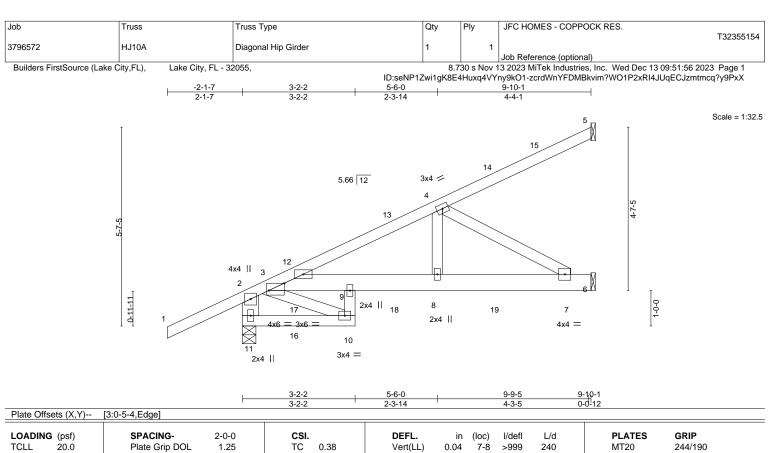
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TCDL 7.0

Lumber DOL 1.25 BC 0.27 0.0 Rep Stress Incr WB 0.27 10.0 Code FBC2023/TPI2014 Matrix-MS

Horz(CT) **BRACING-**TOP CHORD

Vert(CT)

-0.03

-0.02

7-8

6

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

Weight: 61 lb

FT = 20%

except end verticals. Rigid ceiling directly applied or 6-0-0 oc bracing.

>999

n/a

180

n/a

BOT CHORD 10-11: 2x4 SP No.2, 9-10: 2x4 SP No.3

WEBS 2x4 SP No.3 *Except*

2x4 SP No.2

2-11: 2x6 SP No.2

2x6 SP No.2 *Except*

(size) 11=0-4-9, 5=Mechanical, 6=Mechanical

Max Horz 11=249(LC 8)

Max Uplift 11=-273(LC 4), 5=-78(LC 8), 6=-304(LC 8) Max Grav 11=490(LC 38), 5=94(LC 21), 6=396(LC 35)

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

2-11=-475/262, 2-3=-352/168, 3-4=-829/472 TOP CHORD 3-9=-500/595, 8-9=-548/638, 7-8=-548/638 **BOT CHORD**

WEBS 4-8=-296/384, 4-7=-738/634

NOTES-

BCLL

BCDL

LUMBER-

TOP CHORD

BOT CHORD

REACTIONS.

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * 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.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 11=273, 6=304.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 85 lb down and 120 lb up at 1-6-1, 85 lb down and 120 lb up at 1-6-1, 99 lb down and 59 lb up at 4-4-0, 99 lb down and 59 lb up at 4-4-0, and 106 lb down and 77 lb up at 7-1-15, and 106 lb down and 77 lb up at 7-1-15 on top chord, and 9 lb down and 62 lb up at 1-6-1, 9 lb down and 62 lb up at 1-6-1, 57 lb down and 39 lb up at 4-4-0, 57 lb down and 39 lb up at 4-4-0, and 95 lb down and 100 lb up at 7-1-15, and 95 lb down and 100 lb up at 7-1-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (plf)

Vert: 1-2=-54, 2-5=-54, 10-11=-20, 6-9=-20

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December 14,2023

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Job	Truss	Truss Type	Qty	Ply	JFC HOMES - COPPOCK RES.
					T32355154
3796572	HJ10A	Diagonal Hip Girder	1	1	
					Job Reference (optional)

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.730 s Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 09:51:57 2023 Page 2 ID:seNP1Zwi1gK8E4Huxq4VYny9kO1-SoO?k7Zt_gJbWsLB36Yea9_Tqjq3zfZ6?XVAMSy9PxW

LOAD CASE(S) Standard Concentrated Loads (lb)

Vert: 12=61(F=31, B=31) 16=62(F=31, B=31) 18=-11(F=-6, B=-6) 19=-123(F=-62, B=-62)







Job Truss Truss Type Qty Ply JFC HOMES - COPPOCK RES T32355155 HJ11 Roof Special Girder 3796572 Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 09:51:58 2023 Page 1 ID:seNP1Zwi1gK8E4Huxq4VYny9kO1-w?yOxSaWlzRR80wNdp3t7MWcp77pi6kGEBFjuuy9PxV 7-11-15

2-10-2

7-11-15

except end verticals.

5-1-12

5-1-12

Scale = 1:21.4

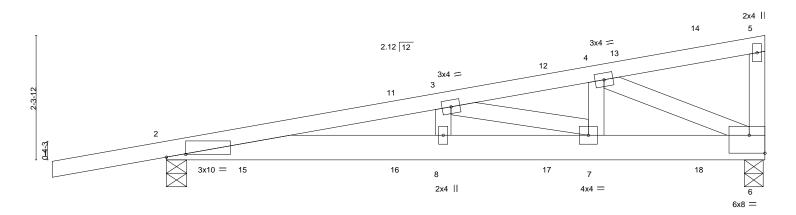
11₁1-9

3-1-10

11-1-3

Structural wood sheathing directly applied or 4-6-0 oc purlins,

Rigid ceiling directly applied or 6-4-0 oc bracing.



	<u>'</u>	5-1-12	<u>'</u>	2-10-2	3-1-4	0-0-6
Plate Offsets (X,Y)	[2:0-4-5,0-0-10], [6:Edge,0-4-0]					
LOADING (not)	SPACING- 2-0-0	CCI	DEFL. in	(100) 1/4011 1/4	PLATES GRIP	
LOADING (psf)		CSI.		(loc) I/defl L/d		
TCLL 20.0	Plate Grip DOL 1.25	TC 0.49	Vert(LL) 0.11	8-10 >999 240	MT20 244/190	
TCDL 7.0	Lumber DOL 1.25	BC 0.50	Vert(CT) -0.11	8-10 >999 180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.28	Horz(CT) -0.02	6 n/a n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS			Weight: 59 lb FT = 209	%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No 2 2x6 SP No 2

BOT CHORD WFBS 2x4 SP No.3

REACTIONS. (size) 2=0-4-9, 6=0-4-3 Max Horz 2=116(LC 25)

Max Uplift 2=-533(LC 4), 6=-685(LC 4)

Max Grav 2=616(LC 1), 6=784(LC 1)

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

TOP CHORD 2-3=-1581/1251, 3-4=-1069/874, 5-6=-287/248 **BOT CHORD** 2-8=-1288/1548, 7-8=-1288/1548, 6-7=-896/1047 WFBS 3-7=-525/411, 4-7=-221/298, 4-6=-1093/934

NOTES-

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=533, 6=685,
- 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 27 lb down and 52 lb up at 4-4-0, 27 lb down and 52 lb up at 4-4-0, 49 lb down and 101 lb up at 7-1-15, 49 lb down and 101 lb up at 7-1-15, and 172 lb down and 209 lb up at 9-11-14, and 172 lb down and 209 lb up at 9-11-14 on top chord, and 63 lb down and 22 lb up at 1-6-1, 63 lb down and 22 lb up at 1-6-1, 19 lb down and 37 lb up at 4-4-0, 19 lb down and 37 lb up at 4-4-0, 40 lb down and 68 lb up at 7-1-15, 40 lb down and 68 lb up at 7-1-15, and 59 lb down and 25 lb up at 9-11-14, and 59 lb down and 25 lb up at 9-11-14 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (plf)

Vert: 1-5=-54, 2-6=-20

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Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

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Job	Truss	Truss Type	Qty	Ply	JFC HOMES - COPPOCK RES.
					T32355155
3796572	HJ11	Roof Special Girder	1	1	
					Job Reference (optional)

Builders FirstSource (Lake City,FL),

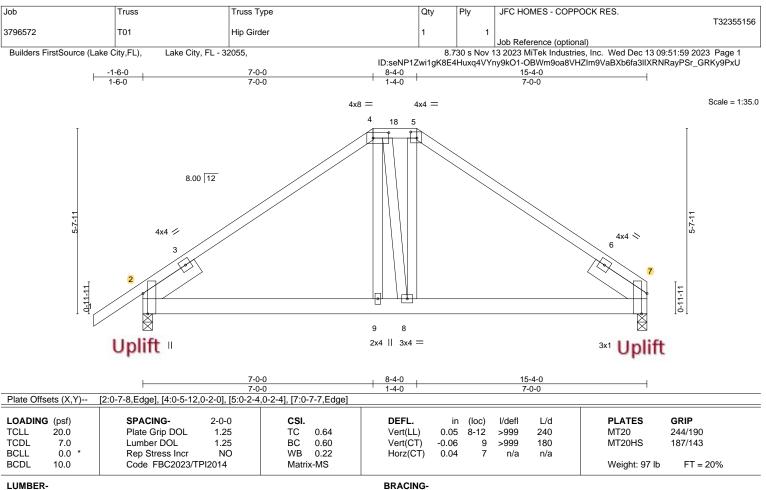
Lake City, FL - 32055,

8.730 s Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 09:51:58 2023 Page 2 ID:seNP1Zwi1gK8E4Huxq4VYny9kO1-w?yOxSaWlzRR80wNdp3t7MWcp77pi6kGEBFjuuy9PxV

LOAD CASE(S) Standard Concentrated Loads (lb)

Vert: 11=-0(F=-0, B=-0) 12=-68(F=-34, B=-34) 14=-344(F=-172, B=-172) 16=-13(F=-7, B=-7) 17=-63(F=-32, B=-32) 18=17(F=8, B=8)





BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x6 SP No.2 2x4 SP No 3 WFBS

SLIDER Left 2x6 SP No.2 1-11-8, Right 2x6 SP No.2 1-11-8

REACTIONS.

(size) 7=0-3-8, 2=0-3-8 Max Horz 2=171(LC 7) Max Uplift 7=-619(LC 9), 2=-681(LC 8) Max Grav 7=994(LC 36), 2=1087(LC 35)

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

TOP CHORD 2-4=-1287/888. 4-5=-1044/823. 5-7=-1284/884 BOT CHORD 2-9=-672/1066, 8-9=-683/1080, 7-8=-637/1029 **WEBS** 4-9=-418/527, 4-8=-303/323, 5-8=-415/575

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated.
- 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) except (jt=lb)
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 88 lb down and 72 lb up at 7-0-0, and 88 lb down and 72 lb up at 8-4-0 on top chord, and 448 lb down and 407 lb up at 7-0-0, and 448 lb down and 407 lb up at 8-3-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (plf)

Vert: 1-4=-54, 4-5=-54, 5-7=-54, 10-14=-20

Concentrated Loads (lb)

Vert: 4=-22(B) 5=-22(B) 9=-382(B) 8=-382(B)

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Structural wood sheathing directly applied or 4-2-6 oc purlins.

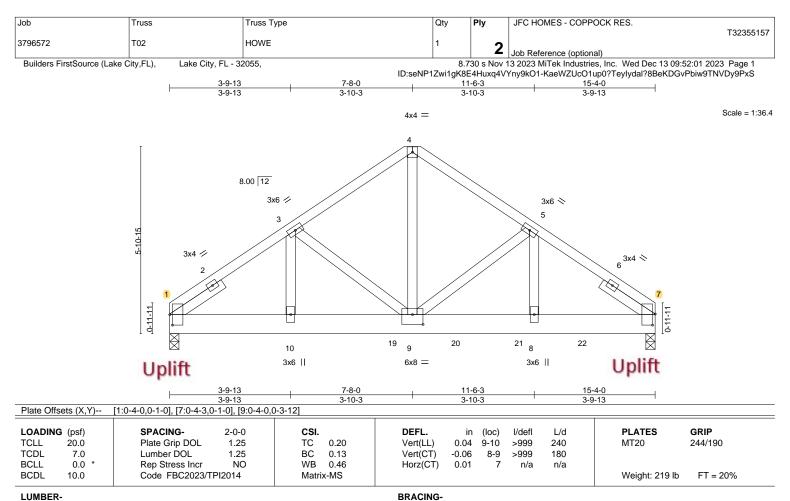
Rigid ceiling directly applied or 8-10-6 oc bracing.

Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

December 14,2023

👠 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.





BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x8 SP 2400F 2.0E 2x4 SP No 3 WFBS

SLIDER Left 2x4 SP No.3 1-11-8, Right 2x4 SP No.3 1-11-8

REACTIONS. (size) 1=0-3-8, 7=0-3-8

Max Horz 1=160(LC 5) Max Uplift 1=-971(LC 8), 7=-1719(LC 9) Max Grav 1=1813(LC 1), 7=3650(LC 1)

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

TOP CHORD 1-3=-2457/1368, 3-4=-2508/1434, 4-5=-2507/1434, 5-7=-3332/1683 BOT CHORD 1-10=-1154/1994, 9-10=-1154/1994, 8-9=-1317/2719, 7-8=-1317/2719 **WEBS** 4-9=-1402/2432, 5-8=-317/906, 3-9=-287/344, 5-9=-844/408

NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.

Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc.

Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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) except (jt=lb) 1=971, 7=1719.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1329 lb down and 1019 lb up at 7-0-12, 554 lb down and 229 lb up at 9-0-12, 554 lb down and 229 lb up at 11-0-12, and 1002 lb down and 499 lb up at 13-0-12, and 970 lb down and 361 lb up at 15-4-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others

LOAD CASE(S) Standard

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Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

December 14,2023

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



Job	Truss	Truss Type	Qty	Ply	JFC HOMES - COPPOCK RES.
2700570	T00	HOWE			T32355157
3796572	T02	HOWE	1	2	Job Reference (optional)

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.730 s Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 09:52:02 2023 Page 2 ID:seNP1Zwi1gK8E4Huxq4VYny9kO1-omCunqd0oCytddD9sf8pHChMNkZVesrr9pDx1fy9PxR

LOAD CASE(S) Standard

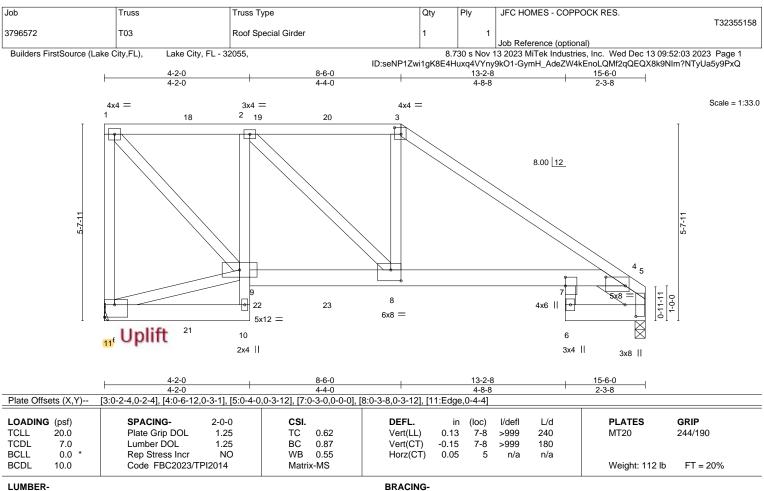
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (plf)

Vert: 11-15=-20, 1-4=-54, 4-7=-54

Concentrated Loads (lb)

Vert: 15=-891(F) 19=-1329(F) 20=-554(F) 21=-554(F) 22=-1002(F)





BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2

2x6 SP No.2 *Except* BOT CHORD 2-10,6-7: 2x4 SP No.3

WEBS 2x4 SP No.3

SLIDER Right 2x6 SP No.2 1-5-8

REACTIONS.

(size) 11=Mechanical, 5=0-3-8

Max Horz 11=-234(LC 9) Max Uplift 11=-999(LC 4), 5=-586(LC 9)

Max Grav 11=1359(LC 32), 5=983(LC 32)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-11=-1080/788, 1-2=-895/631, 2-3=-1305/930, 3-4=-1587/1009, 4-5=-578/901

BOT CHORD $2-9 = -610/479, \, 8-9 = -639/1027, \, 7-8 = -751/1272, \, 4-7 = -667/1047, \, 5-6 = -205/316$

WEBS 1-9=-916/1300, 2-8=-457/588, 3-8=-409/620

NOTES-

1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60

- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) Provide adequate drainage to prevent water ponding.
- 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.
- 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) except (jt=lb)
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 81 lb down and 70 lb up at 0-1-12, 93 lb down and 68 lb up at 2-5-4, 78 lb down and 49 lb up at 4-5-4, and 78 lb down and 49 lb up at 6-5-4, and 68 lb down and 52 lb up at 8-6-0 on top chord, and 176 lb down and 138 lb up at 0-1-12, 169 lb down and 145 lb up at 2-5-4, 181 lb down and 161 lb up at 4-5-4, and 181 lb down and 161 lb up at 6-5-4, and 532 lb down and 493 lb up at 8-5-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (plf)

Vert: 1-3=-54, 3-4=-54, 4-13=54, 5-13=-54, 10-11=-20, 7-9=-20, 6-12=-20

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Structural wood sheathing directly applied or 3-9-5 oc purlins,

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

except end verticals.

8-11-9 oc bracing: 8-9.

7-11-0 oc bracing: 7-8

Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

December 14,2023

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE



Job	Truss	Truss Type	Qty	Ply	JFC HOMES - COPPOCK RES.
					T32355158
3796572	T03	Roof Special Girder	1	1	
					Job Reference (optional)

Builders FirstSource (Lake City,FL),

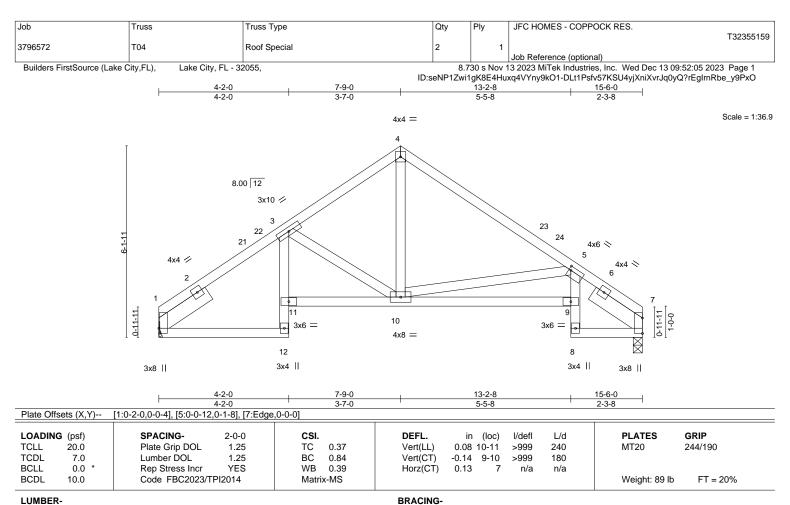
Lake City, FL - 32055,

8.730 s Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 09:52:03 2023 Page 2 ID:seNP1Zwi1gK8E4Huxq4VYny9kO1-GymH_AdeZW4kEnoLQMf2qQEQX8k9Nlm?NTyUa5y9PxQ

LOAD CASE(S) Standard Concentrated Loads (lb)

Vert: 11=-159(F) 1=-41(F) 3=-7(F) 8=-454(F) 18=-22(F) 19=-7(F) 20=-7(F) 21=-152(F) 22=-159(F) 23=-159(F)





BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No 3 WFBS

SLIDER Left 2x6 SP No.2 1-11-8, Right 2x6 SP No.2 1-11-8

REACTIONS.

(size) 1=Mechanical, 7=0-3-8

Max Horz 1=165(LC 9)

Max Uplift 1=-209(LC 12), 7=-209(LC 13) Max Grav 1=574(LC 1), 7=574(LC 1)

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

TOP CHORD 1-3=-702/396, 3-4=-651/386, 4-5=-676/359, 5-7=-691/415

BOT CHORD 1-12=-251/578, 10-11=-330/771, 9-10=-562/1058, 7-8=-255/499

WEBS 3-10=-305/244, 4-10=-205/415, 5-10=-640/473

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl. GCpi=0.18; MWFRS (envelope) gable end zone and C-C 11-11-15 to 15-6-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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
- 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) except (jt=lb) 1=209, 7=209.

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Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

7-10-6 oc bracing: 9-10.

Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

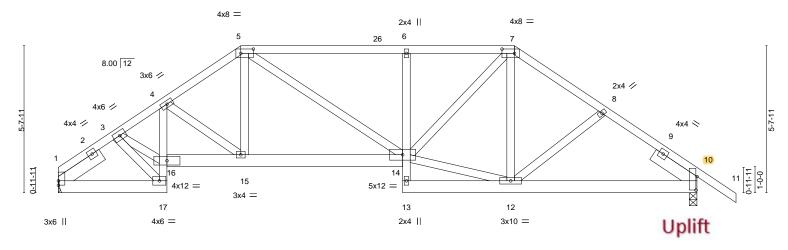
December 14,2023







Scale = 1:44.2



	4-2-0	7-0-0	13-2-8	17-6-0	24-6-0
	4-2-0	2-10-0	6-2-8	4-3-8	7-0-0
Plate Offs	sets (X,Y) [5:0-5-12,0-2	-0], [7:0-5-12,0-2-0],	[10:0-6-3,0-0-8]		

LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.52	Vert(LL)	0.09	6	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.97	Vert(CT)	-0.14	14-15	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.53	Horz(CT)	0.07	10	n/a	n/a		
BCDL	10.0	Code FBC2023/TF	PI2014	Matri	x-MS						Weight: 177 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD 2x4 SP No 2

BOT CHORD 2x4 SP No.2 *Except*

4-17,6-13: 2x4 SP No.3

WEBS 2x4 SP No.3

SLIDER Left 2x6 SP No.2 1-11-8, Right 2x6 SP No.2 1-11-8

REACTIONS. (size) 1=Mechanical, 10=0-3-8

Max Horz 1=-171(LC 4)

Max Uplift 1=-479(LC 8), 10=-694(LC 9) Max Grav 1=1022(LC 1), 10=1276(LC 1)

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

TOP CHORD 1-3=-1319/655, 3-4=-1778/892, 4-5=-1582/803, 5-6=-1687/906, 6-7=-1666/892,

7-8=-1512/901, 8-10=-1599/920 1-17=-520/977, 16-17=-415/808, 15-16=-746/1503, 14-15=-615/1294, 6-14=-328/263,

BOT CHORD 1-17=-520/977, 16-17=-415/808, 15-16=-746/1503, 14-15=-615/1294, 6-14=-328/26 10-12=-619/1258

3-17=-1058/573, 3-16=-686/1394, 4-15=-334/228, 5-15=-132/397, 5-14=-453/548, 12-14=-541/1129, 7-14=-374/631, 7-12=-244/405

NOTES-

WEBS

- Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; end vertical right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific
 to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=479, 10=694.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 93 lb down and 72 lb up at 17-6-0 on top chord, and 448 lb down and 407 lb up at 17-5-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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Structural wood sheathing directly applied or 3-10-14 oc purlins.

Rigid ceiling directly applied or 8-3-4 oc bracing.

Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

December 14,2023

Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	JFC HOMES - COPPOCK RES.
					T32355160
3796572	T05	Hip Girder	1	1	
					Job Reference (optional)

Builders FirstSource (Lake City,FL),

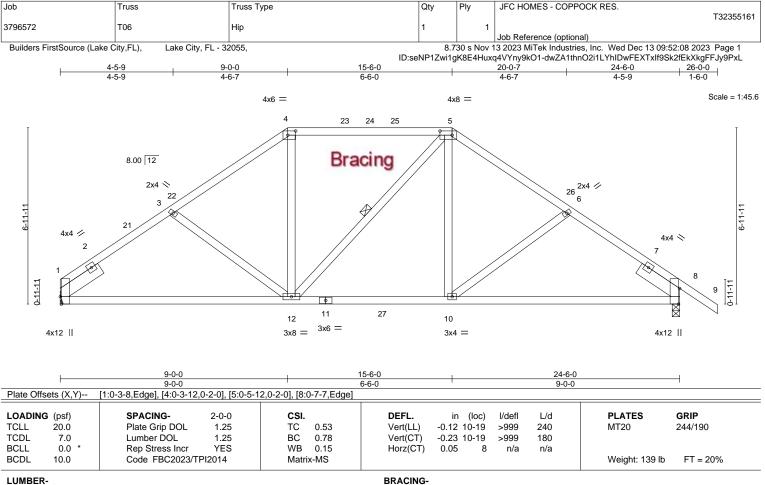
Lake City, FL - 32055,

8.730 s Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 09:52:07 2023 Page 2 ID:seNP1Zwi1gK8E4Huxq4VYny9kO1-9k?nqXh9dkaAjO66fCk?_GO76l3WJ60al4whjty9PxM

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (plf)
Vert: 1-5=-54, 5-7=-54, 7-11=-54, 17-18=-20, 14-16=-20, 13-22=-20 Concentrated Loads (lb) Vert: 7=-22(F) 12=-382(F)





BOT CHORD

WFBS

LUMBER-

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No 3 WFBS

SLIDER Left 2x6 SP No.2 1-11-8, Right 2x6 SP No.2 1-11-8

REACTIONS.

(size) 1=Mechanical, 8=0-3-8

Max Horz 1=-213(LC 8)

Max Uplift 1=-348(LC 12), 8=-401(LC 13) Max Grav 1=983(LC 2), 8=1058(LC 2)

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

TOP CHORD 1-3=-1217/482, 3-4=-1095/434, 4-5=-884/423, 5-6=-1101/426, 6-8=-1219/476

BOT CHORD 1-12=-414/1058, 10-12=-163/890, 8-10=-269/961

WEBS 4-12=-76/368, 5-10=-83/406

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C 19-8-15 to 26-0-0 zone; 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
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=348, 8=401.

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Structural wood sheathing directly applied or 4-7-8 oc purlins.

5-12

Rigid ceiling directly applied or 9-1-1 oc bracing.

1 Row at midpt

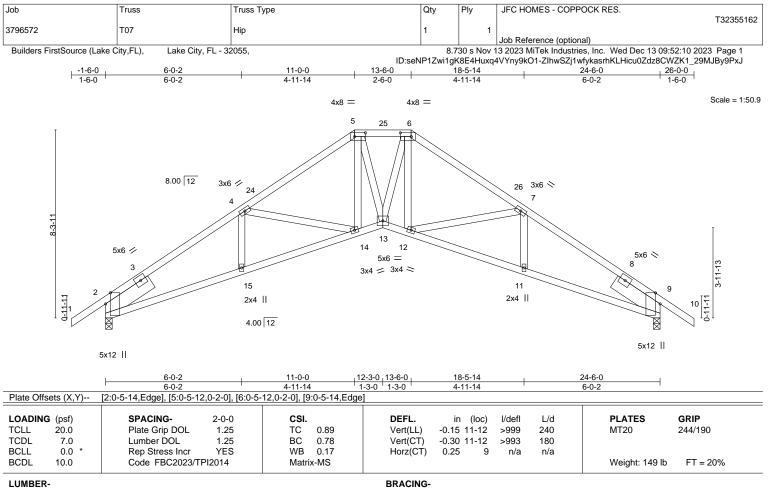
Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

December 14,2023



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BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.1 2x4 SP No 3 WFBS

SLIDER Left 2x8 SP 2400F 2.0E 2-5-8, Right 2x8 SP 2400F 2.0E 2-5-8

REACTIONS. (size) 2=0-3-8, 9=0-3-8 Max Horz 2=-266(LC 10)

Max Uplift 2=-391(LC 12), 9=-391(LC 13) Max Grav 2=988(LC 1), 9=988(LC 1)

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

TOP CHORD 2-4=-1832/746, 4-5=-1563/564, 5-6=-1364/542, 6-7=-1563/542, 7-9=-1832/609

BOT CHORD 2-15=-662/1597, 14-15=-668/1628, 13-14=-330/1301, 12-13=-272/1301, 11-12=-401/1544,

9-11=-394/1507

WEBS 4-14=-296/328, 5-14=-153/344, 5-13=-85/363, 6-13=-190/419, 6-12=-150/340,

7-12=-333/361

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C 17-8-15 to 26-0-0 zone; 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
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Bearing at joint(s) 2, 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=391, 9=391,

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Structural wood sheathing directly applied or 2-2-0 oc purlins.

Rigid ceiling directly applied or 7-8-8 oc bracing.

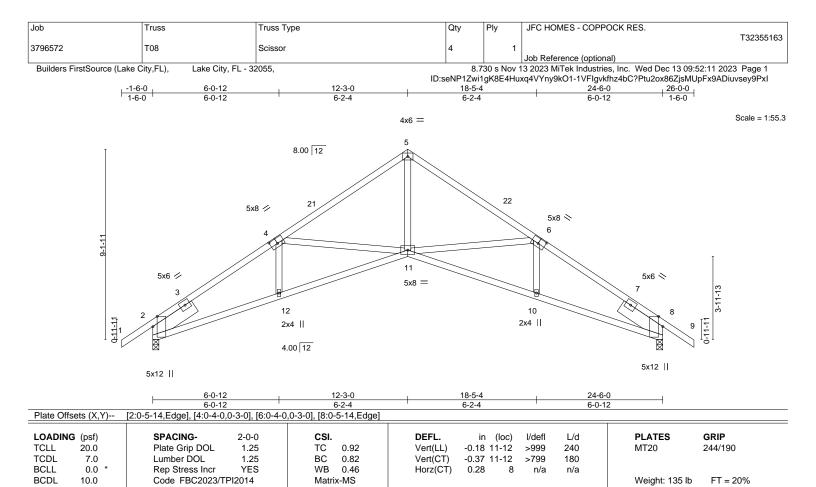
Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

December 14,2023



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BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.1 2x4 SP No 3 WFBS

SLIDER Left 2x8 SP 2400F 2.0E 2-5-8, Right 2x8 SP 2400F 2.0E 2-5-8

REACTIONS.

2=0-3-8, 8=0-3-8 Max Horz 2=-292(LC 10) Max Uplift 2=-385(LC 12), 8=-385(LC 13) Max Grav 2=988(LC 1), 8=988(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-4=-1859/759, 4-5=-1488/503, 5-6=-1488/547, 6-8=-1859/626 BOT CHORD 2-12=-698/1721, 11-12=-704/1756, 10-11=-416/1570, 8-10=-410/1534

WEBS 5-11=-376/1202, 6-11=-437/447, 4-11=-394/408

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C 16-5-15 to 26-0-0 zone; 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
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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
- 6) Bearing at joint(s) 2, 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=385, 8=385.

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Structural wood sheathing directly applied or 2-1-0 oc purlins.

Rigid ceiling directly applied or 7-5-6 oc bracing.

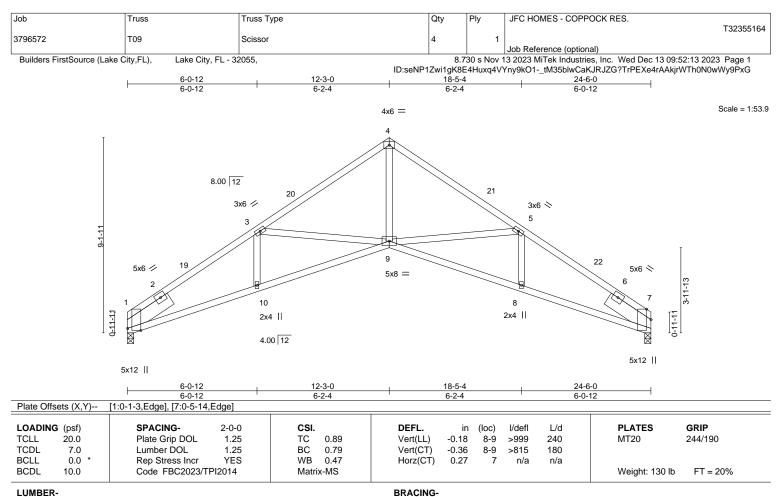
Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

December 14,2023



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BOT CHORD

LUMBER-TOP CHORD

WFBS

2x4 SP No.2 **BOT CHORD** 2x4 SP No.1 2x4 SP No 3

SLIDER Left 2x8 SP 2400F 2.0E 2-5-8, Right 2x8 SP 2400F 2.0E 2-5-8

REACTIONS.

(size) 1=0-3-8, 7=0-3-8 Max Horz 1=260(LC 9)

Max Uplift 1=-333(LC 12), 7=-333(LC 13) Max Grav 1=907(LC 1), 7=907(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-3=-1885/782, 3-4=-1499/530, 4-5=-1499/573, 5-7=-1885/683 BOT CHORD 1-10=-739/1713. 9-10=-747/1745. 8-9=-484/1593. 7-8=-476/1559

WEBS 4-9=-412/1225, 5-9=-443/442, 3-9=-406/409

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C 16-5-15 to 24-6-0 zone; 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
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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
- 6) Bearing at joint(s) 1, 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=333, 7=333.

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Structural wood sheathing directly applied or 2-2-0 oc purlins.

Rigid ceiling directly applied or 7-3-3 oc bracing.

Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

December 14,2023



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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

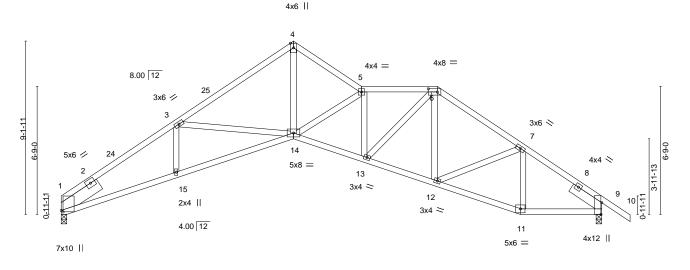
8.730 s Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 09:52:14 2023 Page 1 ID:seNP1Zwi1gK8E4Huxq4VYny9kO1-S4wRlxmYzuSA3T8SZAMemkBGYaWRSFdcvg7ZSzy9PxF

Structural wood sheathing directly applied or 2-2-0 oc purlins.

Rigid ceiling directly applied or 8-1-1 oc bracing.

15-10-0 19-10-0 24-2-8 28-6-0 6-2-4 4-0-0 4-3-8 1-6-0

Scale = 1:60.7



6-0-12 15-10-0 19-10-0 24-2-8 28-6-0 6-0-12 6-2-4 4-4-8 4-0-0 Plate Offsets (X,Y)--[1:0-0-14,0-1-3], [6:0-5-12,0-2-0], [9:0-7-7,Edge]

LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in ((loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.83	Vert(LL)	-0.20 14	4-15	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.76	Vert(CT)	-0.40 14	4-15	>845	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.67	Horz(CT)	0.25	9	n/a	n/a		
BCDL	10.0	Code FBC2023/TF	PI2014	Matr	ix-MS						Weight: 166 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 *Except* 1-4: 2x4 SP No.1

BOT CHORD 2x4 SP No.2 *Except*

1-14: 2x4 SP 2850F 2.0E or 2x4 SP M 31

WEBS 2x4 SP No.3

SLIDER Left 2x8 SP 2400F 2.0E 2-5-8, Right 2x6 SP No.2 1-11-8

REACTIONS.

(size) 1=0-3-8, 9=0-3-8 Max Horz 1=-281(LC 8)

Max Uplift 1=-375(LC 12), 9=-470(LC 13) Max Grav 1=1052(LC 1), 9=1138(LC 1)

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

TOP CHORD 1-3=-2256/870, 3-4=-1932/638, 4-5=-1897/687, 5-6=-1985/760, 6-7=-1602/620,

7-9=-1374/561

BOT CHORD $1-15 = -789/1997,\ 14-15 = -800/2035,\ 13-14 = -539/2145,\ 12-13 = -312/1366,\ 11-12 = -356/1129,$

WEBS 3-14=-351/394, 4-14=-547/1752, 5-14=-575/414, 5-13=-865/323, 6-13=-313/963,

7-12=-127/287, 7-11=-348/159

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C 24-4-4 to 30-0-0 zone; 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
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=375, 9=470.

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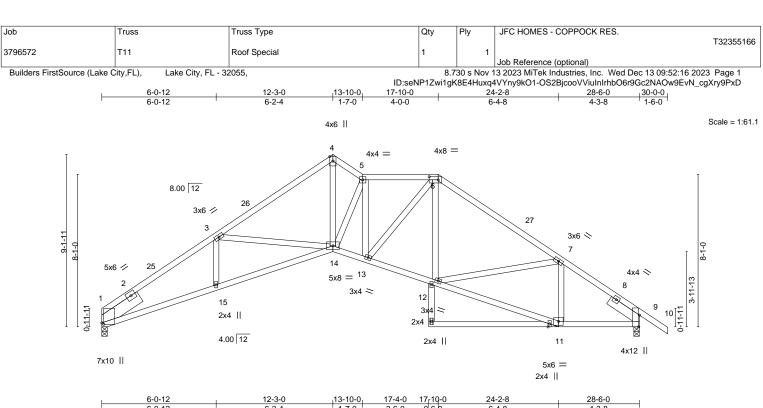
Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

December 14,2023



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE





6-4-8 6-0-12 6-2-4 1-7-0 3-6-0 [1:0-0-14,0-1-3], [6:0-5-12,0-2-0], [9:0-7-7,Edge]

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.83	Vert(LL) -0.19 14-15 >999 240	MT20 244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.86	Vert(CT) -0.39 14-15 >882 180	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.66	Horz(CT) 0.24 9 n/a n/a	
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS		Weight: 184 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD 2x4 SP No.2 *Except*

1-4: 2x4 SP No.1

BOT CHORD 2x4 SP No.2 *Except*

1-14: 2x4 SP 2850F 2.0E or 2x4 SP M 31, 11-16: 2x4 SP No.3

WEBS 2x4 SP No.3

Plate Offsets (X,Y)--

SLIDER Left 2x8 SP 2400F 2.0E 2-5-8, Right 2x6 SP No.2 1-11-8

REACTIONS. (size) 1=0-3-8, 9=0-3-8

Max Horz 1=-281(LC 8)

Max Uplift 1=-375(LC 12), 9=-470(LC 13) Max Grav 1=1052(LC 1), 9=1138(LC 1)

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

TOP CHORD $1\text{-}3\text{--}2255/869,\ 3\text{-}4\text{--}1935/635,\ 4\text{-}5\text{--}1832/679,\ 5\text{-}6\text{--}1700/659,\ 6\text{-}7\text{--}1628/592,}$

7-9=-1399/578

BOT CHORD $1 - 15 = -788/1995, \ 14 - 15 = -798/2033, \ 13 - 14 = -432/1833, \ 12 - 13 = -263/1343, \ 11 - 12 = -377/1170, \ 12 - 12 = -377/1170, \ 13 - 12 = -377/1170, \ 14 - 12 = -377/1170, \ 14 - 12 = -377/1170, \ 14 - 12 = -377/1170, \ 14 - 12 = -377/1170, \ 14 - 12 = -377/1170, \ 15 - 12 = -377/1170,$

WEBS 3-14=-342/390, 4-14=-531/1733, 5-14=-469/357, 5-13=-695/244, 6-13=-235/698,

7-12=-159/265, 7-11=-343/180

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C 22-0-15 to 30-0-0 zone; 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
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=375, 9=470.

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Structural wood sheathing directly applied or 2-2-0 oc purlins.

Rigid ceiling directly applied or 8-8-9 oc bracing.

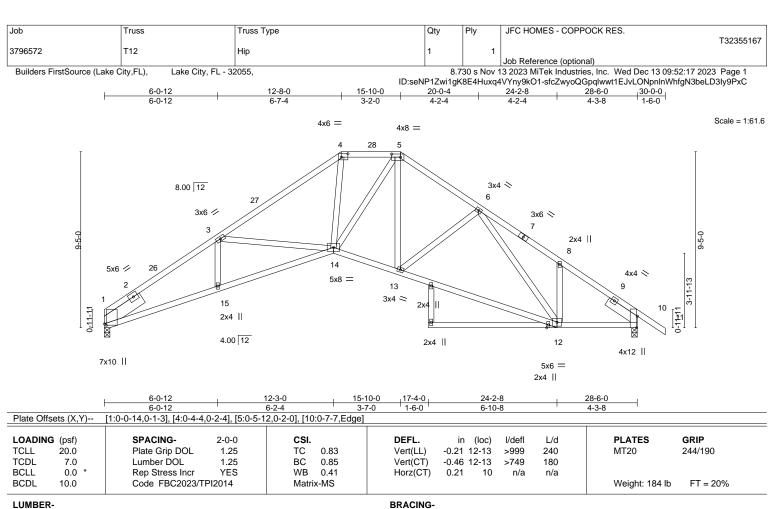
Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

December 14,2023



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BOT CHORD

LUMBER-

2x4 SP No.2 *Except* TOP CHORD 1-4: 2x4 SP No.1

BOT CHORD 2x4 SP No.2 *Except*

1-14: 2x4 SP 2850F 2.0E or 2x4 SP M 31, 12-16: 2x4 SP No.3

WEBS 2x4 SP No.3

SLIDER Left 2x8 SP 2400F 2.0E 2-5-8, Right 2x6 SP No.2 1-11-8

REACTIONS.

(size) 1=0-3-8, 10=0-3-8 Max Horz 1=-291(LC 8)

Max Uplift 1=-396(LC 12), 10=-448(LC 13) Max Grav 1=1052(LC 1), 10=1138(LC 1)

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

TOP CHORD $1\text{-}3\text{--}2263/933,\ 3\text{-}4\text{--}1913/697,\ 4\text{-}5\text{--}1469/657,\ 5\text{-}6\text{--}1506/573,\ 6\text{-}8\text{--}1318/648,}$

8-10=-1389/521

1-15=-850/1972, 14-15=-863/2009, 13-14=-260/1259, 12-13=-351/1374, 10-12=-303/1073

WEBS 3-14=-395/403, 4-14=-171/723, 5-14=-271/582, 5-13=-226/356, 6-13=-229/311,

6-12=-372/147

NOTES-

BOT CHORD

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C 20-0-4 to 30-0-0 zone; 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
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=396, 10=448.

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Structural wood sheathing directly applied or 2-2-0 oc purlins.

Rigid ceiling directly applied or 8-4-3 oc bracing.

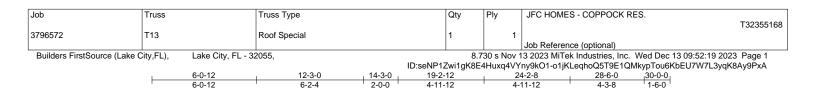
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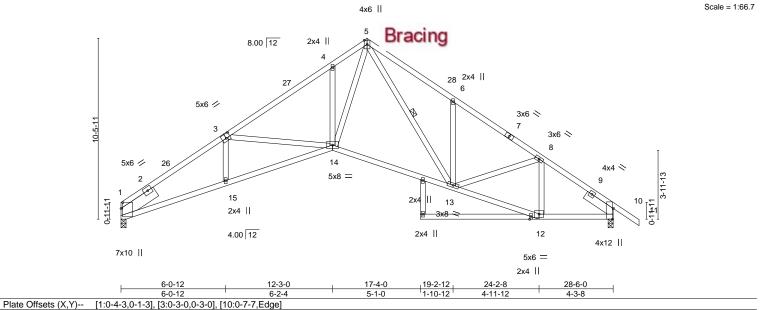
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LOADING (psf) SPACING-CSI. DEFL. in (loc) I/defI L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.25 TC 0.82 Vert(LL) -0.19 14-15 >999 240 MT20 244/190 TCDL 7.0 Lumber DOL 1.25 BC 0.77 Vert(CT) -0.38 14-15 >911 180 WB 0.59 **BCLL** 0.0 Rep Stress Incr YES Horz(CT) 0.22 10 n/a n/a BCDL 10.0 Code FBC2023/TPI2014 Matrix-MS Weight: 186 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WFBS

LUMBER-

2x4 SP No.2 *Except* TOP CHORD 1-3: 2x4 SP No.1

BOT CHORD 2x4 SP No.2 *Except*

1-14: 2x4 SP 2850F 2.0E or 2x4 SP M 31, 12-16: 2x4 SP No.3

WEBS 2x4 SP No.3

SLIDER Left 2x8 SP 2400F 2.0E 2-5-8, Right 2x6 SP No.2 1-11-8

REACTIONS.

(size) 1=0-3-8, 10=0-3-8 Max Horz 1=-324(LC 8)

Max Uplift 1=-388(LC 12), 10=-441(LC 13) Max Grav 1=1052(LC 1), 10=1138(LC 1)

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

TOP CHORD $1\text{-}3\text{--}2256/927, \, 3\text{-}4\text{--}1945/712, \, 4\text{-}5\text{--}1949/906, \, 5\text{-}6\text{--}1666/780, \, 6\text{-}8\text{--}1623/591, \, 3\text{--}1606/780, \, 6\text{--}1606/780, \, 6\text{$

8-10=-1376/519

1-15=-866/2082, 14-15=-876/2122, 13-14=-255/1236, 12-13=-327/1134, 10-12=-312/1069

WEBS 3-14=-316/364, 4-14=-369/335, 5-14=-733/1683, 5-13=-563/604, 6-13=-374/359,

8-13=-61/325, 8-12=-350/141

NOTES-

BOT CHORD

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C 18-5-15 to 30-0-0 zone; 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
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.
- 6) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=388, 10=441.

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Structural wood sheathing directly applied or 2-2-0 oc purlins.

5-13

Rigid ceiling directly applied or 8-3-10 oc bracing.

1 Row at midpt

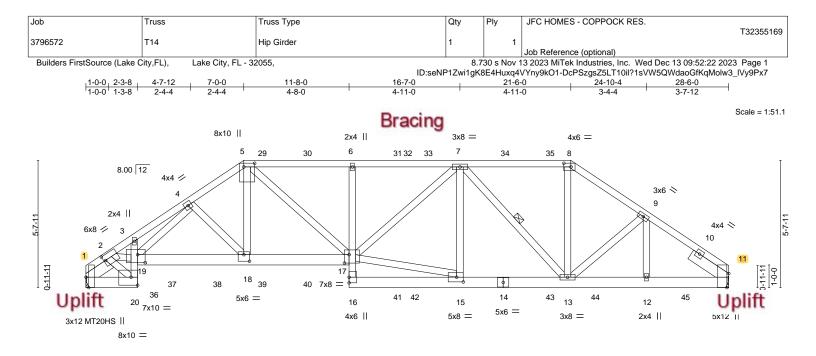
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2-3-8	7-0-0	11-8-0	16-7-0	21-6-0	24-10-4	28-6-0
2-3-8	4-8-8	4-8-0	4-11-0	4-11-0	3-4-4	3-7-12

Plate Offsets (X,Y)-- [1:0-5-8,Edge], [2:0-0-15,0-2-12], [5:0-2-0,0-5-12], [8:0-3-12,0-2-0], [11:0-7-7,Edge], [15:0-3-8,0-2-8], [17:0-2-8,0-4-8], [18:0-3-0,0-3-8], [19:0-4-0,0-4-4], [20:Edge,0-4-4]

LOADIN TCLL	G (psf) 20.0	SPACING- Plate Grip DOL	2-0-0 1.25	CSI.	0.82	DEFL. Vert(LL)	in 0.29	(loc)	l/defl >999	L/d 240	PLATES MT20	GRIP 244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.67	Vert(CT)	-0.34	6	>999	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.81	Horz(CT)	0.17	11	n/a	n/a		
BCDL	10.0	Code FBC2023/TF	PI2014	Matri	x-MS						Weight: 209 lb	FT = 20%

BOT CHORD

WEBS

LUMBERTOP CHORD 2x4 SP No 2

TOP CHORD

TOP CHORD 2x4 SP No.2 BOT CHORD 2x6 SP M 26 *Except*

BOT CHORD 2x6 SP M 26 *Except*

3-20: 2x4 SP 2850F 2.0E or 2x4 SP M 31, 6-16: 2x4 SP No.2

WEBS 2x4 SP No.3 *Except*

2-19,15-17: 2x4 SP No.2

SLIDER Left 2x6 SP No.2 1-3-5, Right 2x6 SP No.2 1-11-8

REACTIONS. (size) 1=Mechanical, 11=Mechanical

Max Horz 1=-150(LC 27)

Max Uplift 1=-1523(LC 8), 11=-1625(LC 9) Max Grav 1=2418(LC 1), 11=2415(LC 1)

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

TOP CHORD 1-2=-917/590, 2-3=-5133/3348, 3-4=-5310/3504, 4-5=-3815/2580, 5-6=-3961/2763,

6-7=-3942/2751, 7-8=-2544/1847, 8-9=-3040/2123, 9-11=-3139/2155 BOT CHORD 1-20=-1271/1890, 19-20=-1215/1841, 18-19=-2341/3521, 17-18=-2076/3165,

6-17=-315/273, 15-16=-320/483, 13-15=-2187/3291, 12-13=-1677/2530,

11-12=-1677/2530

WEBS 2-20=-1791/1192, 2-19=-2378/3596, 4-19=-873/1354, 4-18=-586/429, 5-18=-796/1250, 5-17=-913/1120, 15-17=-1907/2869, 7-17=-626/892, 7-13=-1163/864, 8-13=-974/1415

NOTES-

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific
 to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated.
- 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) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=1523, 11=1625.

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Structural wood sheathing directly applied or 1-10-6 oc purlins.

7-13

Rigid ceiling directly applied or 6-4-6 oc bracing.

1 Row at midpt

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December 14,2023

Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	JFC HOMES - COPPOCK RES.
					T32355169
3796572	T14	Hip Girder	1	1	
					Job Reference (optional)

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.730 s Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 09:52:22 2023 Page 2 ID:seNP1Zwi1gK8E4Huxq4VYny9kO1-DcPSzgsZ5LT10il?1sVW5QWdaoGfKqMolw3_IVy9Px7

NOTES-

- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 78 lb down and 50 lb up at 7-9-10, 78 lb down and 49 lb up at 9-9-10, 93 lb down and 68 lb up at 11-9-10, 93 lb down and 66 lb up at 13-9-10, 93 lb down and 66 lb up at 14-6-12, 93 lb down and 68 lb up at 16-6-12, and 93 lb down and 68 lb up at 18-6-12, and 93 lb down and 68 lb up at 18-6-12, and 93 lb down and 68 lb up at 18-6-12, and 93 lb down and 68 lb up at 18-6-12, and 93 lb down and 68 lb up at 18-6-12, and 93 lb down and 68 lb up at 18-6-12, and 93 lb down and 68 lb up at 18-6-12, and 93 lb down and 68 lb up at 18-6-12, and 93 lb down and 68 lb up at 18-6-12, and 93 lb down and 68 lb up at 18-6-12, and 93 lb down and 68 lb up at 18-6-12, and 93 lb down and 68 lb up at 18-6-12, and 93 lb down and 93 lb up at 18-6-12, and 93 lb down and 68 lb up at 20-6-12 on top chord, and 225 lb down and 151 lb up at 1-9-10, 225 lb down and 151 lb up at 3-9-10, 225 lb down and 151 lb up at 5-9-10, 181 lb down and 161 lb up at 7-9-10, 181 lb down and 161 lb up at 9-9-10, 169 lb down and 145 lb up at 11-9-12, 169 lb down and 145 lb up at 13-9-10, 169 lb down and 145 lb up at 14-6-12, 169 lb down and 145 lb up at 16-6-12, 169 lb down and 145 lb up at 18-6-12, 169 lb down and 145 lb up at 20-6-12, 226 lb down and 199 lb up at 22-6-12, and 226 lb down and 199 lb up at 24-6-12, and 226 lb down and 199 lb up at 26-6-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

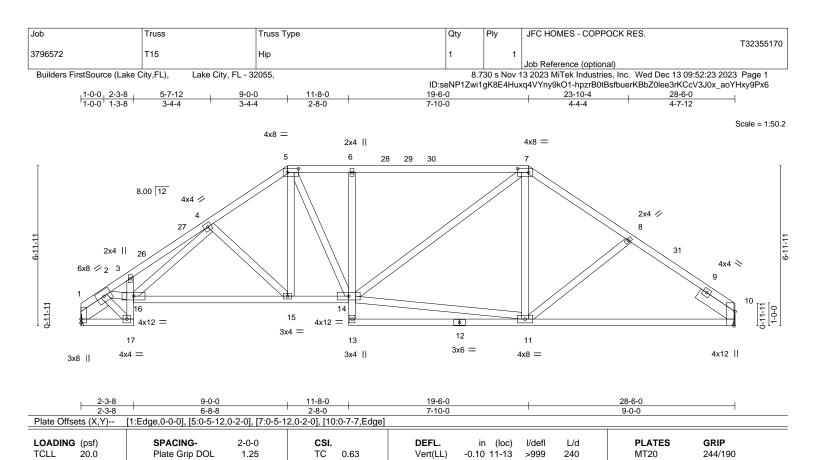
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (plf)

Vert: 1-5=-54, 5-8=-54, 8-11=-54, 20-21=-20, 17-19=-20, 16-25=-20

Concentrated Loads (lb)

Vert: 17=-152(B) 6=-22(B) 14=-152(B) 15=-152(B) 7=-22(B) 12=-225(B) 29=-7(B) 30=-7(B) 31=-22(B) 33=-22(B) 34=-22(B) 35=-22(B) 36=-225(B) 37=-225(B) 38=-225(B) 39=-159(B) 40=-159(B) 41=-152(B) 42=-152(B) 43=-152(B) 44=-225(B) 45=-225(B)





Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

-0.23 11-13

10

0.12

>999

n/a

180

n/a

Rigid ceiling directly applied or 7-6-6 oc bracing.

Structural wood sheathing directly applied or 3-8-12 oc purlins.

Weight: 186 lb

FT = 20%

LUMBER-

TCDL

BCLL

BCDL

2x4 SP No.2

TOP CHORD

BOT CHORD 2x4 SP No.2 *Except* 3-17,6-13: 2x4 SP No.3

WEBS 2x4 SP No.3

7.0

0.0

10.0

SLIDER Left 2x6 SP No.2 1-3-15, Right 2x6 SP No.2 1-11-8

REACTIONS.

(size) 1=Mechanical, 10=Mechanical

Lumber DOL

Rep Stress Incr

Code FBC2023/TPI2014

Max Horz 1=-192(LC 8)

Max Uplift 1=-411(LC 12), 10=-411(LC 13) Max Grav 1=1055(LC 1), 10=1055(LC 1)

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

TOP CHORD $2\text{-}3\text{--}2141/940,\ 3\text{-}4\text{--}2305/1086,\ 4\text{-}5\text{--}1455/622,\ 5\text{-}6\text{--}1312/601,\ 6\text{-}7\text{--}1320/605,}$

1.25

YES

BC

WB

Matrix-MS

0.70

0.66

7-8=-1246/532, 8-10=-1385/572 1-17=-413/764, 16-17=-431/848, 15-16=-616/1411, 14-15=-415/1162, 6-14=-382/299,

10-11=-373/1078

2-17=-1013/526, 2-16=-822/1722, 4-16=-415/763, 4-15=-392/311, 5-15=-182/421, 5-14=-307/408, 11-14=-250/891, 7-14=-298/457, 7-11=-46/277

NOTES-

WEBS

BOT CHORD

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C 23-11-11 to 28-6-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=411, 10=411.

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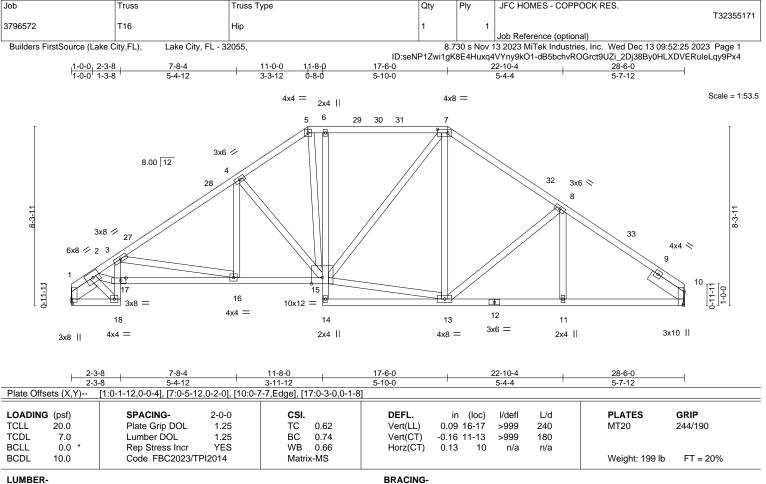
Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

December 14,2023



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BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 *Except*

3-18,6-14: 2x4 SP No.3

WEBS 2x4 SP No.3

SLIDER Left 2x6 SP No.2 1-3-15, Right 2x6 SP No.2 1-11-8

REACTIONS. (size) 1=Mechanical, 10=Mechanical

Max Horz 1=-235(LC 10)

Max Uplift 1=-404(LC 12), 10=-404(LC 13) Max Grav 1=1055(LC 1), 10=1055(LC 1)

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

TOP CHORD 1-2=-279/149, 2-3=-2119/951, 3-4=-1614/633, 4-5=-1242/560, 5-6=-1052/531,

6-7=-1054/533, 7-8=-1171/510, 8-10=-1393/543

BOT CHORD 1-18=-416/786, 17-18=-404/823, 3-17=-89/262, 16-17=-1056/1989, 15-16=-511/1275,

6-15=-291/262, 11-13=-341/1088, 10-11=-341/1088

WEBS 2-18=-980/493, 2-17=-889/1734, 3-16=-824/555, 4-16=-85/333, 4-15=-519/340, 5-15=-311/661, 13-15=-213/871, 7-15=-215/308, 7-13=-119/268, 8-13=-331/280

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C 21-8-15 to 28-6-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=404, 10=404.

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Structural wood sheathing directly applied or 3-8-2 oc purlins.

Rigid ceiling directly applied or 5-9-2 oc bracing.

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8.730 s Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 09:52:27 2023 Page 1 ID:seNP1Zwi1gK8E4Huxq4VYny9kO1-ZaCL1Nwivt5K7TeyqP5hoUDUepxa?6FXvCnlQiy9Px2

7-8-4

Rigid ceiling directly applied or 5-9-7 oc bracing.

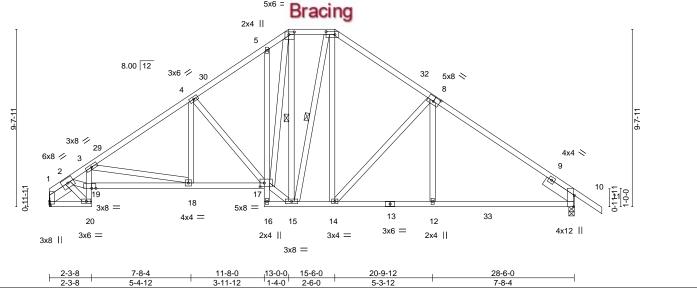
1 Row at midpt

Structural wood sheathing directly applied or 2-2-0 oc purlins.

6-15 7-15

1-0-0 2-3-8 20-9-12 28-6-0 15-6-0 5-4-12 3-11-12 1-4-0 2-6-0 7-8-4

Scale = 1:62.6



5-3-12

Plate Offsets (X,Y)--[1:0-1-12,0-0-4], [6:0-3-8,0-1-12], [7:0-5-12,0-2-0], [8:0-4-0,0-3-0], [10:0-7-7,Edge], [17:0-2-12,0-2-8], [19:0-2-12,0-0-0] LOADING (psf) SPACING-2-0-0 CSI. DEFL. L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.25 TC 0.80 Vert(LL) -0.10 17-18 >999 240 MT20 244/190 TCDL 7.0 Lumber DOL 1.25 BC 0.82 Vert(CT) -0.19 18-19 >999 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.71 Horz(CT) 0.15 10 n/a n/a BCDL 10.0 Code FBC2023/TPI2014 Matrix-MS Weight: 220 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WFBS

15-6-0

2-6-0

LUMBER-TOP CHORD 2x4 SP No.2

2x4 SP No.2 *Except* **BOT CHORD**

3-20,5-16: 2x4 SP No.3

WEBS 2x4 SP No.3

SLIDER Left 2x6 SP No.2 1-3-15, Right 2x6 SP No.2 1-11-8

REACTIONS. (size) 1=Mechanical, 10=0-3-8

Max Horz 1=-298(LC 8)

Max Uplift 1=-394(LC 12), 10=-447(LC 13) Max Grav 1=1168(LC 19), 10=1274(LC 20)

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

TOP CHORD 1-2=-323/145, 2-3=-2521/937, 3-4=-1765/619, 4-5=-1320/546, 5-6=-1267/630,

5-4-12

6-7=-873/469, 7-8=-1118/496, 8-10=-1482/509

BOT CHORD 1-20=-418/1028, 19-20=-407/1096, 3-19=-91/379, 18-19=-1047/2563, 17-18=-509/1598,

14-15=-167/943, 12-14=-269/1165, 10-12=-270/1160

WEBS 2-20=-1300/496, 2-19=-883/2257, 3-18=-983/547, 4-18=-86/421, 4-17=-650/356,

15-17=-201/1106, 6-17=-507/1296, 6-15=-644/240, 7-14=-212/508, 8-14=-564/362,

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C 19-8-15 to 30-0-0 zone; 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
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

11-8-0

3-11-12

- 4) Provide adequate drainage to prevent water ponding.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=394, 10=447.

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14-3-0

2-7-0

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6-11-12

4-8-4

11-8-0

4-8-4

8.730 s Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 09:52:29 2023 Page 1 ID:seNP1Zwi1gK8E4Huxq4VYny9kO1-WyK6S3yyRVL2MmnLxq79tvJpedcUS_YqMWGsUby9Px0 20-9-12 28-6-0 30-0-0

Structural wood sheathing directly applied or 2-2-0 oc purlins.

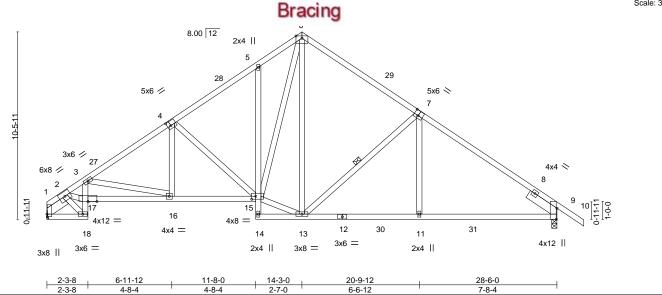
Rigid ceiling directly applied or 5-10-7 oc bracing.

1 Row at midpt

1-6-0

7-8-4

Scale: 3/16"=1"



6-6-12

LOADING (psf) SPACING-2-0-0 CSI. DEFL. in (loc) I/def L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.25 TC 0.83 Vert(LL) -0.12 11-13 >999 240 MT20 244/190 TCDL 7.0 Lumber DOL 1.25 BC 0.85 Vert(CT) -0.22 11-13 >999 180 WB **BCLL** 0.0 Rep Stress Incr YES 0.85 Horz(CT) 0.14 n/a n/a BCDL 10.0 Code FBC2023/TPI2014 Matrix-MS Weight: 197 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WFBS

LUMBER-

Plate Offsets (X,Y)--

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 *Except*

3-18,5-14: 2x4 SP No.3

WEBS 2x4 SP No.3

SLIDER Left 2x6 SP No.2 1-3-15, Right 2x6 SP No.2 1-11-8

REACTIONS. (size) 1=Mechanical, 9=0-3-8

Max Horz 1=-324(LC 8)

Max Uplift 1=-389(LC 12), 9=-441(LC 13) Max Grav 1=1208(LC 19), 9=1327(LC 20)

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

TOP CHORD 1-2=-317/129, 2-3=-2606/931, 3-4=-1919/642, 4-5=-1404/547, 5-6=-1390/653,

6-7=-1138/497, 7-9=-1571/515

BOT CHORD 1-18=-436/1082, 17-18=-439/1153, 3-17=-110/396, 16-17=-1018/2610, 15-16=-569/1776,

11-13=-277/1247, 9-11=-277/1247

WEBS 2-18=-1371/537, 2-17=-882/2322, 3-16=-868/463, 4-16=-80/412, 4-15=-661/358,

13-15=-137/1029, 6-15=-509/1117, 6-13=-250/323, 7-13=-628/396, 7-11=0/352

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C 18-5-15 to 30-0-0 zone; 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

[1:0-1-12,0-0-4], [4:0-2-4,0-3-0], [7:0-3-0,0-3-4], [9:0-7-7,Edge], [15:0-2-12,0-2-0]

- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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) except (jt=lb) 1=389, 9=441,

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December 14,2023



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20-9-12

6-6-12

28-6-0

7-8-4

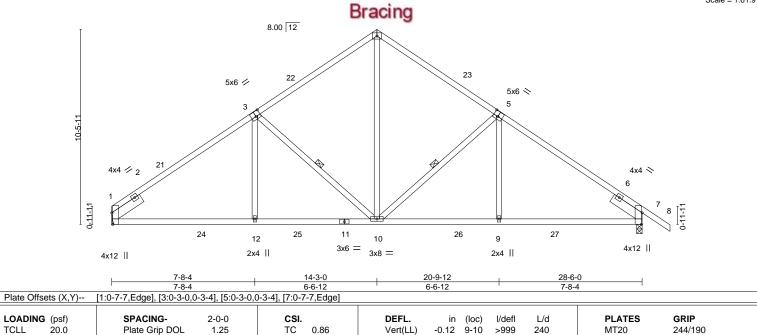
14-3-0

6-6-12

Scale = 1:61.9

30-0-0

1-6-0



Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

WFBS

-0.21

0.08

9-10

1 Row at midpt

>999

n/a

180

n/a

Rigid ceiling directly applied or 8-3-13 oc bracing.

Structural wood sheathing directly applied or 2-2-0 oc purlins.

5-10 3-10

Weight: 162 lb

FT = 20%

LUMBER-

TCLL

TCDL

BCLL

BCDL

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No 3 WFBS

7.0

0.0

10.0

SLIDER Left 2x6 SP No.2 1-11-8, Right 2x6 SP No.2 1-11-8

Lumber DOL

Rep Stress Incr

Code FBC2023/TPI2014

REACTIONS.

(size) 1=Mechanical, 7=0-3-8

Max Horz 1=-324(LC 8)

Max Uplift 1=-389(LC 12), 7=-441(LC 13) Max Grav 1=1266(LC 19), 7=1347(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-3=-1608/531, 3-4=-1173/503, 4-5=-1174/497, 5-7=-1601/515 BOT CHORD 1-12=-461/1478 10-12=-461/1478 9-10=-276/1271 7-9=-276/1270 **WEBS** 4-10=-333/895, 5-10=-618/396, 5-9=0/342, 3-10=-627/401, 3-12=0/343

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C 18-5-15 to 30-0-0 zone; 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
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

1.25

YES

вс

WB

Matrix-MS

0.87

0.66

- 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) except (jt=lb) 1=389, 7=441.

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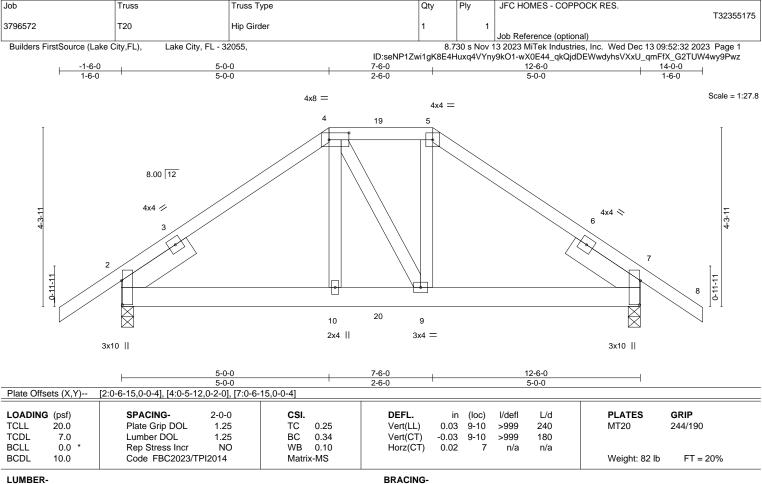
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BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x6 SP No.2 2x4 SP No 3 WFBS

SLIDER Left 2x6 SP No.2 1-11-8, Right 2x6 SP No.2 1-11-8

REACTIONS.

(size) 2=0-3-8, 7=0-3-8 Max Horz 2=-139(LC 27) Max Uplift 2=-539(LC 8), 7=-539(LC 9) Max Grav 2=807(LC 35), 7=807(LC 36)

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

TOP CHORD 2-4=-871/661, 4-5=-706/604, 5-7=-874/663 BOT CHORD 2-10=-483/747, 9-10=-488/756, 7-9=-449/711

WEBS 4-10=-149/262, 5-9=-141/257

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 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 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) except (jt=lb) 2=539, 7=539.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 132 lb down and 140 lb up at 5-0-0, and 132 lb down and 126 lb up at 6-3-0, and 132 lb down and 140 lb up at 7-6-0 on top chord, and 199 lb down and 160 lb up at 5-0-0, and 53 lb down and 31 lb up at 6-3-0, and 199 lb down and 160 lb up at 7-5-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (plf)

Vert: 1-4=-54, 4-5=-54, 5-8=-54, 11-15=-20

Vert: 4=-53(B) 5=-53(B) 10=-121(B) 9=-121(B) 19=-53(B) 20=-30(B)

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Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

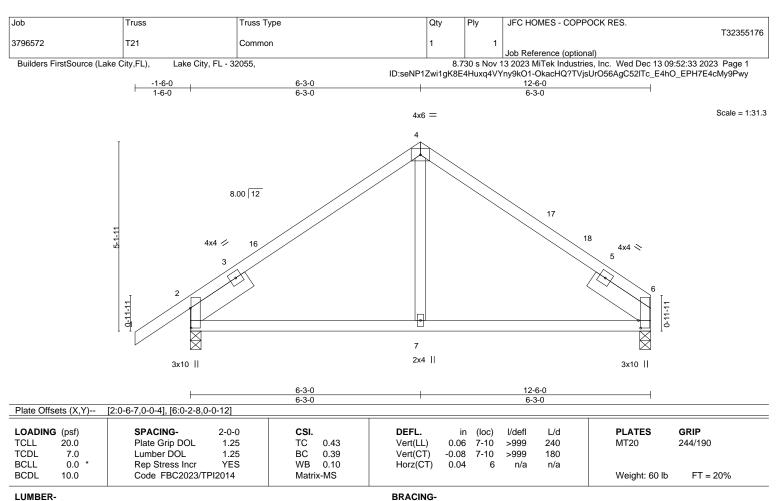
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BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No 3 WFBS

SLIDER Left 2x6 SP No.2 1-11-8, Right 2x6 SP No.2 1-11-8

REACTIONS.

(size) 6=0-3-8, 2=0-3-8 Max Horz 2=154(LC 11) Max Uplift 6=-167(LC 13), 2=-222(LC 12)

Max Grav 6=458(LC 1), 2=548(LC 1)

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

TOP CHORD 2-4=-471/314, 4-6=-446/332 **BOT CHORD** 2-7=-113/342. 6-7=-113/342

WEBS 4-7=-55/256

NOTES-

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C 10-5-15 to 12-6-0 zone; 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
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=167, 2=222.

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Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

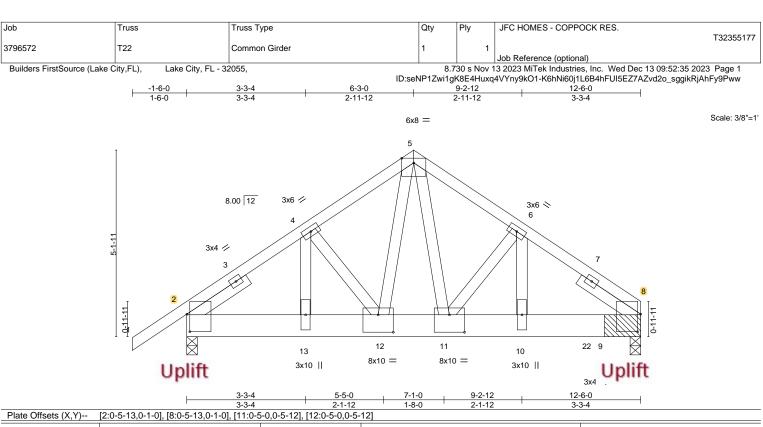
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LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.55	Vert(LL)	0.07	10-11	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.27	Vert(CT)	-0.09	10-11	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	1.00	Horz(CT)	0.01	8	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matri	x-MS						Weight: 101 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBERTOP CHORD 2x4 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E

WEBS 2x4 SP No.3

SLIDER Left 2x4 SP No.3 1-11-8, Right 2x4 SP No.3 1-11-8

REACTIONS. (size)

(size) 8=(0-3-8 + bearing block) (req. 0-4-2), 2=0-3-8

Max Horz 2=154(LC 7)

Max Uplift 8=-1769(LC 9), 2=-1080(LC 8) Max Grav 8=3504(LC 1), 2=1966(LC 1)

Max Grav 8=3504(LC 1), 2=1966(LC 1)

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

TOP CHORD 2-4=-2427/1363, 4-5=-2764/1623, 5-6=-3229/1889, 6-8=-3940/2114

BOT CHORD 2-13=-1132/1961, 12-13=-1132/1961, 11-12=-1208/2189, 10-11=-1670/3207,

8-10=-1670/3207

WEBS 4-13=-651/413, 4-12=-484/596, 5-12=-340/511, 5-11=-1567/2618, 6-11=-885/401,

6-10=-412/1067

NOTES-

- 1) 2x8 SP 2400F 2.0E bearing block 12" long at jt. 8 attached to front face with 4 rows of 10d (0.131"x3") nails spaced 3" o.c. 16 Total fasteners. Bearing is assumed to be SP No.2.
- 2) Unbalanced roof live loads have been considered for this design.
- 3) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) except (jt=lb) 8=1769, 2=1080.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2395 lb down and 1645 lb up at 7-0-12, and 1035 lb down and 431 lb up at 9-0-12, and 1035 lb down and 424 lb up at 11-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

 Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (plf)

Vert: 1-5=-54, 5-8=-54, 14-18=-20

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Structural wood sheathing directly applied or 2-6-12 oc purlins.

Rigid ceiling directly applied or 8-11-14 oc bracing.

Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

December 14,2023

Continued on page 2

👠 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



Job	Truss	Truss Type	Qty	Ply	JFC HOMES - COPPOCK RES.
					T32355177
3796572	T22	Common Girder	1	1	
					Job Reference (optional)

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.730 s Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 09:52:35 2023 Page 2 ID:seNP1Zwi1gK8E4Huxq4VYny9kO1-K6hNi60j1L6B4hFUI5EZ7AZvd2o_sggikRjAhFy9Pww

LOAD CASE(S) Standard Concentrated Loads (lb)

Vert: 11=-2395(F) 10=-1035(F) 22=-1035(F)









Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.730 s Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 09:52:36 2023 Page 1 ID:seNP1Zwi1gK8E4Huxq4VYny9kO1-oJFlwS1LoeE2irqhsolofN541R3KbKbsz5SkDhy9Pwv

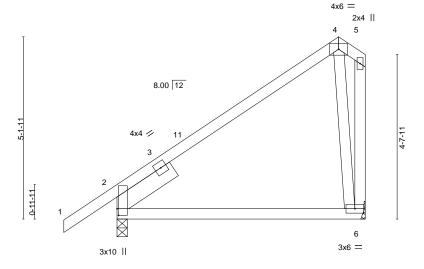
Structural wood sheathing directly applied or 6-0-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

0-9-0

Scale = 1:32.5



7-0-0 7-0-0

BRACING-

TOP CHORD

BOT CHORD

Plate Offsets (X,Y) [2:0-2-4,0-0-8]									
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP					
TCLL 20.0	Plate Grip DOL 1.25	TC 0.57	Vert(LL) 0.12 6-9 >692 240	MT20 244/190					
TCDL 7.0	Lumber DOL 1.25	BC 0.58	Vert(CT) -0.14 6-9 >572 180						
BCLL 0.0 *	Rep Stress Incr YES	WB 0.19	Horz(CT) -0.06 2 n/a n/a						
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS		Weight: 44 lb FT = 20%					

LUMBER-

TOP CHORD 2x4 SP No 2 **BOT CHORD** 2x4 SP No.2 2x4 SP No 3

WFBS SLIDER Left 2x6 SP No.2 1-11-8

REACTIONS. (size) 2=0-3-8, 6=Mechanical

Max Horz 2=239(LC 12)

Max Uplift 2=-102(LC 12), 6=-179(LC 12) Max Grav 2=343(LC 1), 6=268(LC 19)

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

TOP CHORD 2-4=-337/41, 5-6=-264/200

WFBS 4-6=-414/566

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C 6-10-4 to 6-10-4 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.
- 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) except (jt=lb) 2=102, 6=179.

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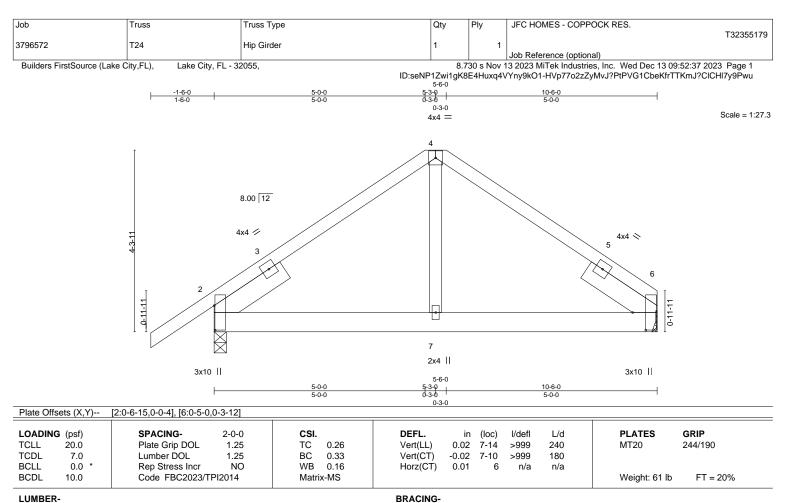
Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

December 14,2023



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BOT CHORD

LUMBER-

WFBS

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x6 SP No.2 2x4 SP No 3

SLIDER Left 2x6 SP No.2 1-11-8, Right 2x6 SP No.2 1-11-8

REACTIONS.

(size) 6=Mechanical, 2=0-3-8

Max Horz 2=130(LC 28)

Max Uplift 6=-389(LC 9), 2=-445(LC 8) Max Grav 6=602(LC 36), 2=689(LC 35)

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

TOP CHORD 2-4=-728/549, 4-6=-722/544 **BOT CHORD** 2-7=-386/586, 6-7=-386/586

WEBS 4-7=-244/408

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.
- 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) except (jt=lb) 6=389, 2=445.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 243 lb down and 305 lb up at 5-3-0 on top chord, and 199 lb down and 160 lb up at 5-0-0, and 199 lb down and 160 lb up at 5-5-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (plf)

Vert: 1-4=-54, 4-6=-54, 8-12=-20

Concentrated Loads (lb)

Vert: 7=-242(F) 4=-107(F)

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Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

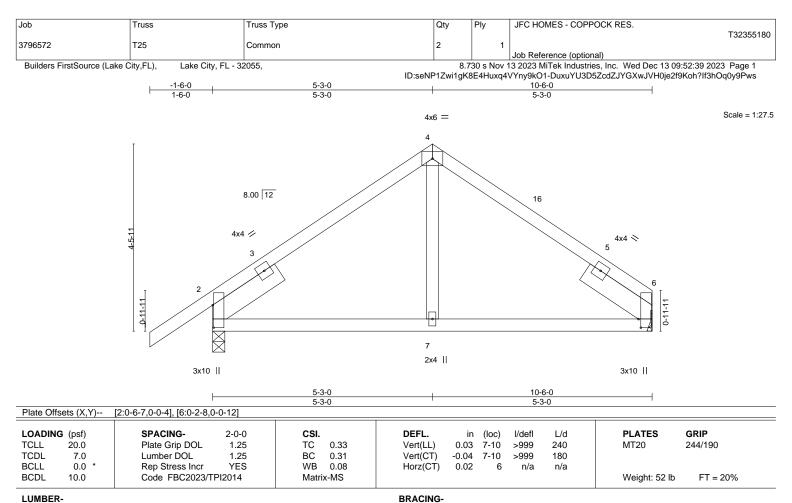
Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

December 14,2023



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BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No 3 WFBS

SLIDER Left 2x6 SP No.2 1-11-8, Right 2x6 SP No.2 1-11-8

REACTIONS.

6=Mechanical, 2=0-3-8 Max Horz 2=133(LC 9)

Max Uplift 6=-139(LC 13), 2=-195(LC 12) Max Grav 6=383(LC 1), 2=475(LC 1)

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

TOP CHORD 2-4=-358/303, 4-6=-351/311 BOT CHORD 2-7=-104/276, 6-7=-104/276

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C 9-5-15 to 10-6-0 zone; 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
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.
- 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) except (jt=lb) 6=139, 2=195.

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Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

December 14,2023



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



Job Truss Truss Type Qty Plv JFC HOMES - COPPOCK RES T32355181 T26 3796572 Roof Special Girder 3 Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 09:52:41 2023 Page 1 $ID:seNP1Zwi1gK8E4Huxq4VYny9kO1-9G3ez95UcBsLocieeLLzMRoubSp_GQ2b7NAVvuy9Pwq$

4-4-12

8-8-8

3-5-9

Scale: 3/8"=1"

17-6-0

4-4-12

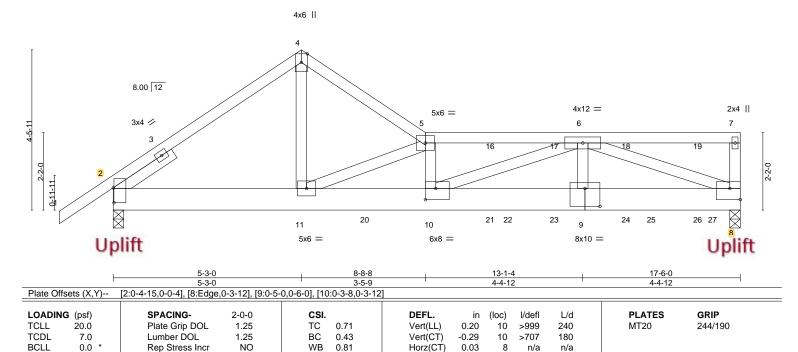
Weight: 352 lb

Structural wood sheathing directly applied or 5-1-14 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

FT = 20%



BRACING-

TOP CHORD

BOT CHORD

LUMBER-

10.0

BCDL

TOP CHORD 2x4 SP No.2 BOT CHORD 2x8 SP 2400F 2.0E WEBS 2x4 SP No.3

WEBS 2x4 SP No.3 SLIDER Left 2x4 SP No.3 1-11-8

REACTIONS. (size) 8=0-3-8, 2=0-3-8 Max Horz 2=152(LC 8)

Max Uplift 8=-2905(LC 9), 2=-1915(LC 8)

Max Grav 8=6470(LC 1), 2=3887(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-4=-5695/2892. 4-5=-5609/2844. 5-6=-14645/7152. 6-7=-324/153

Code FBC2023/TPI2014

BOT CHORD 2-4=-5695/2892, 4-5=-5609/2844, 5-6=-14645/7152, 6-7=-324/153 BOT CHORD 2-11=-2344/4661, 10-11=-7095/14506, 9-10=-5435/11696, 8-9=-5479/11810

WEBS 4-11=-3057/6021, 5-11=-10991/5344, 5-10=-847/1712, 6-10=-1851/3181, 6-9=-1224/3198,

6-8=-12389/5744

NOTES-

1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-7-0 oc.

Bottom chords connected as follows: 2x8 - 3 rows staggered at 0-5-0 oc.

Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

Matrix-MS

- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 6) Provide adequate drainage to prevent water ponding.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * 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.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=2905, 2=1915.
- o=2905, 2=193.

 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 73 lb down and 54 lb up at 10-6-12, 60 lb down and 66 lb up at 12-4-4, and 60 lb down and 66 lb up at 14-4-4, and 60 lb down and 66 lb up at 16-4-4 on top chord, and 2398 lb down and 1543 lb up at 7-0-12, 1035 lb down and 431 lb up at 9-0-12, 853 lb down and 424 lb up at 11-0-12, 165 lb down and 84 lb up at 14-4-4, 1124 lb down and 409 lb up at 15-0-12, and 165 lb down and 84 lb up at 16-4-4, and 1186 lb down and 404 lb up at 16-9-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

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Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

December 14,2023

Continued on page 2

LOAD CASE(S) Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



Job	Truss	Truss Type	Qty	Ply	JFC HOMES - COPPOCK RES.
					T32355181
3796572	T26	Roof Special Girder	1	2	
				J	Job Reference (optional)

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.730 s Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 09:52:41 2023 Page 2 ID:seNP1Zwi1gK8E4Huxq4VYny9kO1-9G3ez95UcBsLocieeLLzMRoubSp_GQ2b7NAVvuy9Pwq

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-4=-54, 4-5=-54, 5-7=-54, 8-12=-20

Concentrated Loads (lb)

Vert: 10=-1035(B) 9=-1032(B) 16=-18(F) 17=-20(F) 18=-20(F) 19=-20(F) 20=-2398(B) 21=-853(F) 22=-1035(B) 23=-165(F) 24=-165(F) 25=-1032(B) 26=-165(F)





Job Truss Truss Type Qty Ply JFC HOMES - COPPOCK RES T32355182 3796572 T27 Common Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.730 s Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 09:52:42 2023 Page 1 ID:seNP1Zwi1gK8E4Huxq4VYny9kO1-dSc0AV66NU_CQmHrC3sCveL8BsAL?2mkL1v2RLy9Pwp 7-0-0

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

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

1-9-0

Scale = 1:29.9

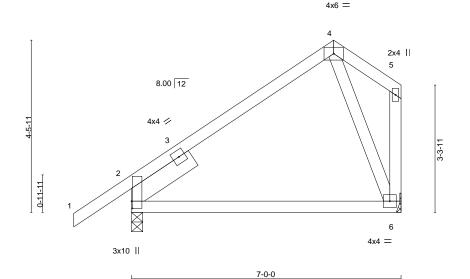


Plate Offsets (X,Y)--[2:0-2-4,0-0-4] LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) I/defI L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.25 TC 0.40 Vert(LL) 0.07 6-9 >999 240 MT20 244/190 TCDL 7.0 Lumber DOL 1.25 BC 0.35 Vert(CT) -0.12 6-9 >662 180 WB 0.08 **BCLL** 0.0 Rep Stress Incr YES Horz(CT) 0.03 n/a n/a BCDL 10.0 Code FBC2023/TPI2014 Matrix-MS Weight: 41 lb FT = 20%

7-0-0

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No 3 WFBS

SLIDER Left 2x6 SP No.2 1-11-8

REACTIONS. (size) 2=0-3-8, 6=Mechanical

Max Horz 2=187(LC 12)

Max Uplift 2=-128(LC 12), 6=-131(LC 12) Max Grav 2=343(LC 1), 6=246(LC 19)

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

TOP CHORD 2-4=-358/101 WFBS 4-6=-203/258

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C 6-10-4 to 6-10-4 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.
- 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) except (jt=lb) 2=128, 6=131.

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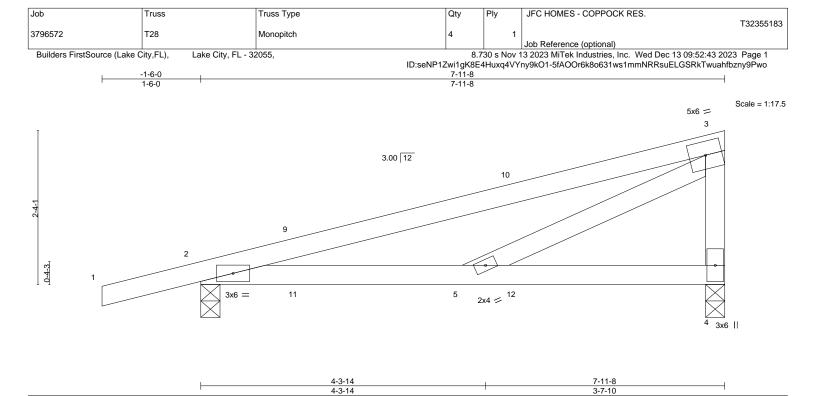
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December 14,2023



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DEFL.

Vert(LL)

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

in (loc)

5-8

5-8

0.08

0.07

-0.00

I/defI

>999

>999

except end verticals.

n/a

L/d

240

180

n/a

Rigid ceiling directly applied or 5-7-7 oc bracing.

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

PLATES

Weight: 35 lb

MT20

GRIP

244/190

FT = 20%

LUMBER-TOP CHORD

REACTIONS.

TCLL

TCDL

BCLL

BCDL

LOADING (psf)

2x4 SP No.2

BOT CHORD 2x4 SP No.2 2x4 SP No.3 **WEBS**

20.0

7.0

0.0

10.0

(size) 4=0-3-8, 2=0-3-8

Max Horz 2=122(LC 8)

Max Uplift 4=-235(LC 8), 2=-314(LC 8) Max Grav 4=281(LC 1), 2=378(LC 1)

SPACING-

Plate Grip DOL

Rep Stress Incr

Code FBC2023/TPI2014

Lumber DOL

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

TOP CHORD 2-3=-486/634, 3-4=-263/499 **BOT CHORD** 2-5=-701/426

WEBS 3-5=-671/416

NOTES-

1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C 7-9-12 to 7-9-12 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

CSI.

TC

вс

WB

Matrix-MS

0.75

0.62

0.21

- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

2-0-0

1.25

1.25

YES

- 4) * 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=235, 2=314.

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December 14,2023

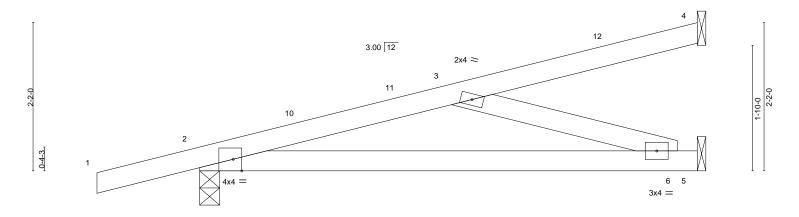


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Scale = 1:16.8



	7-5-4									
Plate Offsets (X,Y) [2:0-1-8,Edge]										
									Ξ	
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl L/d	PLATES (GRIP		
TCLL 20.0	Plate Grip DOL	1.25	TC 0.40	Vert(LL)	-0.07 6-9	>999 240	MT20 2	244/190		
TODI 7.0	L DOI	4.05	DO 044) / ((OT)	0.4.4	000 400				

TCDL 7.0 Lumber DOL 1.25 0.44 Vert(CT) -0.146-9 >609 180 BCLL 0.0 WB 0.18 Rep Stress Incr YES Horz(CT) 0.00 5 n/a n/a BCDL 10.0 Code FBC2023/TPI2014 Matrix-MS Weight: 29 lb FT = 20% BRACING-

TOP CHORD

BOT CHORD

LUMBER-

WFBS

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No 2

2x4 SP No.3

REACTIONS. 4=Mechanical, 2=0-3-8, 5=Mechanical (size)

Max Horz 2=115(LC 8)

Max Uplift 4=-68(LC 8), 2=-212(LC 8), 5=-64(LC 12) Max Grav 4=74(LC 1), 2=356(LC 1), 5=185(LC 3)

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

TOP CHORD 2-3=-477/473 **BOT CHORD** 2-6=-572/463 WFBS 3-6=-482/596

NOTES-

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C 1-6-0 to 7-2-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * 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.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5 except (jt=lb) 2=212

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Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 7-9-9 oc bracing.

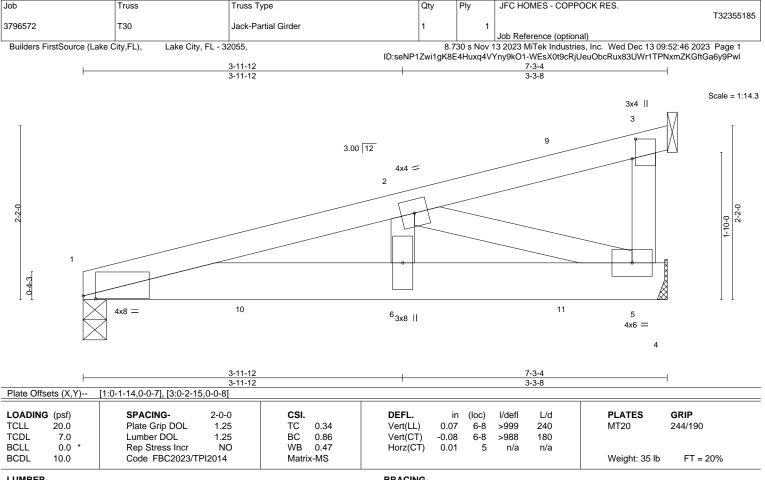
Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

December 14,2023



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LUMBER-

WFBS

TOP CHORD 2x4 SP No 2 BOT CHORD 2x6 SP No 2 2x4 SP No.3 BRACING-

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 3-11-1 oc purlins.

Rigid ceiling directly applied or 6-8-8 oc bracing.

REACTIONS. (size) 1=0-3-8, 5=Mechanical, 3=Mechanical

Max Horz 1=87(LC 4)

Max Uplift 1=-473(LC 4), 5=-404(LC 4), 3=-54(LC 4) Max Grav 1=840(LC 1), 5=873(LC 1), 3=72(LC 1)

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

TOP CHORD 1-2=-1913/978

BOT CHORD 1-6=-1011/1856, 5-6=-1011/1856 WFBS 2-6=-397/843, 2-5=-1949/1061

NOTES-

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * 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.
- Refer to girder(s) for truss to truss connections.
- 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) 3 except (jt=lb) 1=473. 5=404.
- 8) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 542 lb down and 409 lb up at 2-0-12, and 363 lb down and 159 lb up at 4-0-12, and 363 lb down and 159 lb up at 6-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (plf)

Vert: 1-3=-54. 1-4=-20 Concentrated Loads (lb)

Vert: 6=-363(B) 10=-537(B) 11=-363(B)

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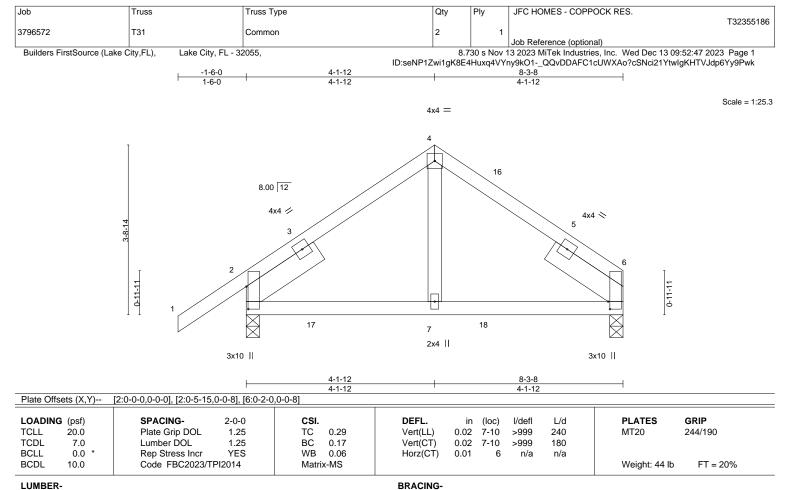
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BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No 3 WFBS

SLIDER Left 2x6 SP No.2 1-11-8, Right 2x6 SP No.2 1-11-8

REACTIONS.

(size) 6=0-3-8, 2=0-3-8 Max Horz 2=109(LC 9) Max Uplift 6=-108(LC 13), 2=-165(LC 12) Max Grav 6=299(LC 1), 2=395(LC 1)

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

TOP CHORD 2-4=-236/424, 4-6=-236/406

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C 4-1-12 to 8-3-8 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=108, 2=165.

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Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

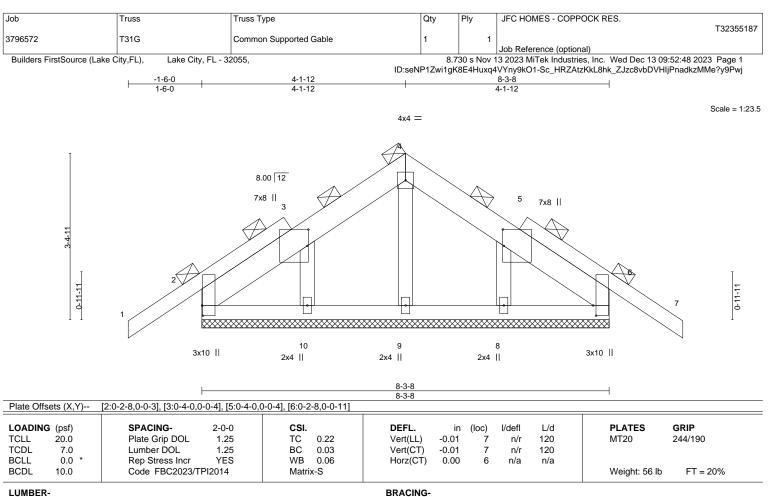
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BOT CHORD

2-0-0 oc purlins (6-0-0 max.).

Rigid ceiling directly applied or 10-0-0 oc bracing.

LUMBER-

2x6 SP No.2 *Except* TOP CHORD 1-3,5-7: 2x4 SP No.2

BOT CHORD 2x4 SP No.2 **OTHERS** 2x4 SP No.3

REACTIONS. All bearings 8-3-8.

(lb) -Max Horz 2=-106(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 2, 8 except 6=-109(LC 13), 10=-107(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 2, 6, 9, 10, 8

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * 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.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8 except (jt=lb)
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 6.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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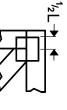


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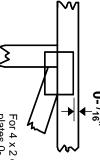


Symbols

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- $\frac{1}{16}$ from outside edge of truss.

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

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

PLATE SIZE

4 × 4

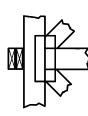
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

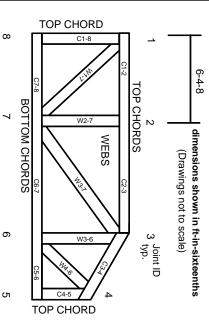
Industry Standards:

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, Restraining & Bracing of Metal Plate Connected Wood Trusses.

ANSI/TPI1: DSB-22:

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-1988, ESR-2362, ESR-2685, ESR-3282 ESR-4722, ESL-1388

Design General Notes

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. 1/2/2023

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.
- 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.
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- The design does not take into account any dynamic or other loads other than those expressly stated.