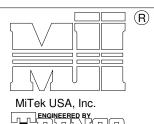
T-BRACE / I-BRACE DETAIL WITH 2X BRACE ONLY

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.

7 mi rok 7 milato							
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	
SPACING	
WEB T-BRACE	N
Nails Section Detail T-Brace Web	7

Nails	
Web	I-Brace
Nails	

	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.



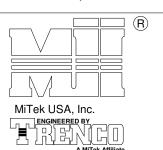
Thomas A. Albani PE No.39380 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

SCAB-BRACE DETAIL

MII-SCAB-BRACE

MiTek USA, Inc.

Page 1 of 1



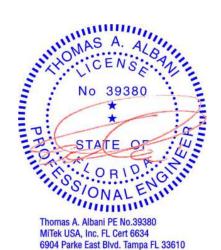
Note: Scab-Bracing to be used when continuous lateral bracing at midpoint (or T-Brace) is impractical.

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. MAXIMUM WEB AXIAL FORCE = 2500 lbs MAXIMUM WEB LENGTH = 12'-0" 2x4 MINIMUM WEB SIZE SCAB BRACE MINIMUM WEB GRADE OF #3 Nails Section Detail Scab-Brace Web

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

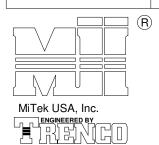


Date:

STANDARD REPAIR TO REMOVE END VERTICAL (RIBBON NOTCH VERTICAL)

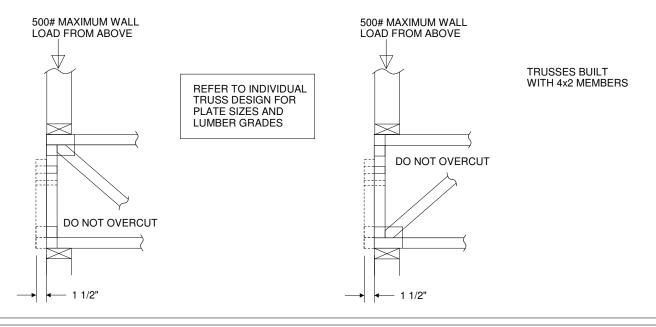
MII-REP05

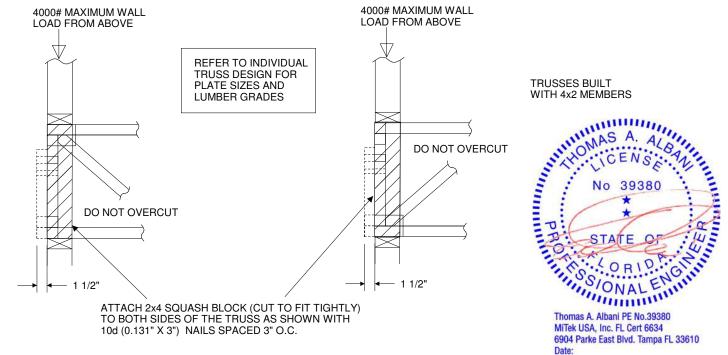
Page 1 of 1 MiTek USA, Inc.



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.

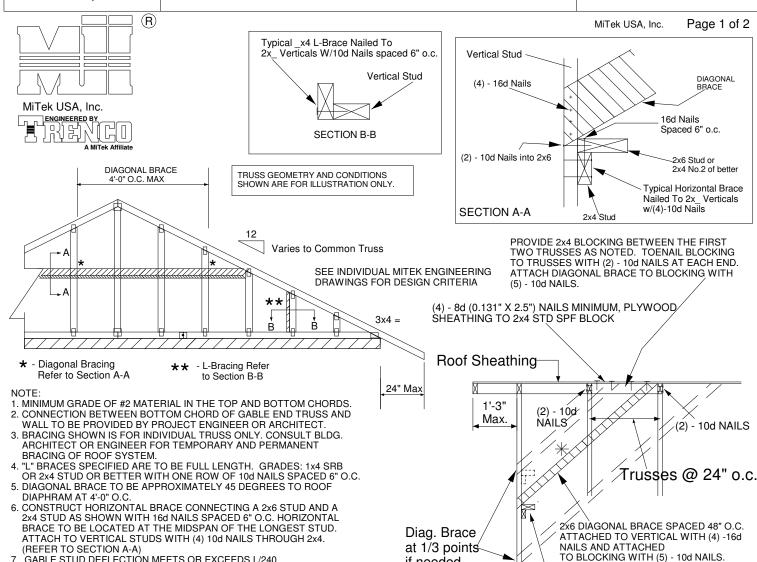
2. ALL MEMBERS MUST BE RETURNED TO THEIR ORIGINAL POSITIONS BEFORE ALL MEMBERS MUST BE RETURNED TO THEIR ORIGINAL POSITIONS BEFORE
APPLYING REPAIR AND HELD IN PLACE DURING APPLICATION OF REPAIR.
 THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE
SUCH AS TO AVOID SPLITTING OF THE WOOD.
 LUMBER MUST BE CUT CLEANLY AND ACCURATELY AND THE REMAINING WOOD MUST BE UNDAMAGED.
 THIS REPAIR IS TO BE USED FOR SINGLE PLY TRUSSES IN THE 4X_ ORIENTATION ONLY.
 CONNECTOR PLATES MUST BE FULLY IMBEDDED AND UNDISTURBED.





Standard Gable End Detail

MII-GE130-D-SP



if needed

End Wall

- 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.
- 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 1x4 Brace L-Brace		u _ · · · ·		2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS
	and Grade			Maximur	n 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 7-98, ASCE 7-02, ASCE 7-05 130 MPH ASCE 7-10 160 MPH

DURATION OF LOAD INCREASE: 1.60

STUD DESIGN IS BASED ON COMPONENTS AND CLADDING. CONNECTION OF BRACING IS BASED ON MWFRS.



HORIZONTAL BRACE

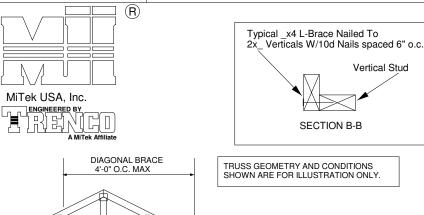
(SEE SECTION A-A)

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

Standard Gable End Detail

MII-GE130-SP

MiTek USA. Inc.



DIAGONAL BŖACE 16d Nails Spaced 6" o.c.

Page 1 of 2

2x6 Stud or

Typical Horizontal Brace Nailed To 2x_ Verticals w/(4)-10d Nails

2x4 No.2 of better

(2) - 10d NAILS

∕Trusses @ 24" o.c.

2x6 DIÀGONAL BRACE SPACED 48" O.C.

ATTACHED TO VERTICAL WITH (4) -16d

HORIZONTAL BRACE

(SEE SECTION A-A)

TO BLOCKING WITH (5) - 10d NAILS.

NAILS AND ATTACHED

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

- 10d

NÁILS

2x4 Stud

Vertical Stud

(4) - 16d Nails

(2) - 10d Nails into 2x6

SHEATHING TO 2x4 STD SPF BLOCK

SECTION A-A

Roof Sheathing

1'-3"

Max.

Diag. Brace

at 1/3 points

End Wall

if needed

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 24" Max

NOTE

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

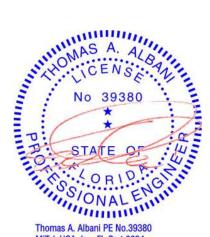
 5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF
- DIAPHRAM AT 4'-0" O.C.
- 6. CONSTRUCT HORIZONTAL BRACE CONNECTING A 2x6 STUD AND A 2x4 STUD AS SHOWN WITH 16d NAILS SPACED 6" O.C. HORIZONTAL BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST STUD. ATTACH TO VERTICAL STUDS WITH (4) 10d NAILS THROUGH 2x4. (REFER TO SECTION A-A)
- GABLE STUD DEFLECTIÓN MEETS OR EXCEEDS L/240.
- THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES
- DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR TYPE TRUSSES
- 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	SIUO WILLIOUL IA4 ZA4		L-Brace Maximum	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS		
	and Grade			Maximur	m Stud Length			
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.

MAX MEAN ROOF HEIGHT = 30 FEET CATEGORY II BUILDING EXPOSURE B or C ASCE 7-98, ASCE 7-02, ASCE 7-05 130 MPH ASCE 7-10 160 MPH **DURATION OF LOAD INCREASE: 1.60**

STUD DESIGN IS BASED ON COMPONENTS AND CLADDING. CONNECTION OF BRACING IS BASED ON MWFRS

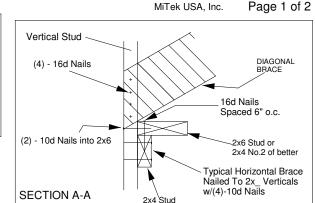


Thomas A. Albani PE No.39380 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

JANUARY 6, 2017

Standard Gable End Detail

MII-GE140-001



 $\overline{\mathsf{R}}$ MiTek USA, Inc.

ENGINEERED BY 5

DIAGONAL BRACE

4'-0" O.C. MAX

2x Verticals W/10d Nails spaced 6" o.c. Vertical Stud SECTION B-B

Typical _x4 L-Brace Nailed To

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

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 DF/SPF BLOCK

Roof Sheathing

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.
- 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")

(2) - 10d/ NAILS (2) - 10d NAILS
Trusses @ 24" o.c.
711usses @ 24 0.c.
2x6 DIAGONAL BRACE SPACED 48" O.C.
ATTACHED TO VERTICAL WITH (4) -16d NAILS AND ATTACHED
TO BLOCKING WITH (5) - 10d NAILS.
HORIZONTAL BRACE
(SEE SECTION A-A)
<u> </u>

Minimum Stud Size Species	Stud Spacing	Without Brace	1x4 L-Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS		
and Grade			Maximur	n Stud Length				
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 ASCE 7-98, ASCE 7-02, ASCE 7-05 DURATION OF LOAD INCREASE: 1.60

STUD DESIGN IS BASED ON COMPONENTS AND CLADDING CONNECTION OF BRACING IS BASED ON MWFRS.



Standard Gable End Detail

MII-GE170-D-SP



2X4 SP OR SPF No. 2

TO TRUSSES WITH (2) - 10d NAILS AT EACH END.

ATTACH DIAGONAL BRACE TO BLOCKING WITH

PROVIDE 2x4 BLOCKING BETWEEN THE FIRST TWO TRUSSES AS NOTED. TOENAIL BLOCKING

Vertical Stud

(4) - 16d Nails

(2) - 10d Nails into 2x6

(5) - 10d NAILS.

SECTION A-A

Page 1 of 2

2X6 SP OR SPF No. 2 DIAGONAL BRACE

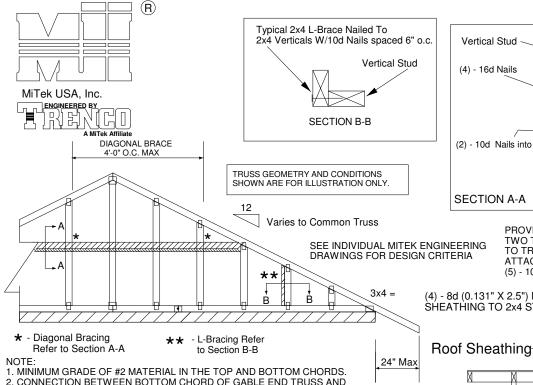
2X6 SP OR SPF No. 2

Typical Horizontal Brace

Nailed To 2x4 Verticals

w/(4)-10d Nails

16d Nails Spaced 6" o.c.



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

- 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)
 GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240.
 THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES.

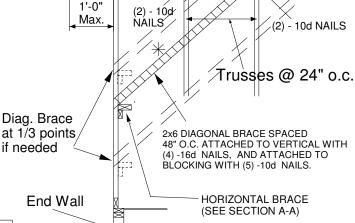
- DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR TYPE TRUSSES
- SOUTHERN PINE LUMBER DESIGN VALUES ARE THOSE EFFECTIVE 06-01-13 BY SPIB/ALSC.
- NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

Minimum Stud Size Species	Stud Spacing	Without 2x4 DIAGONAL		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 I-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.

MAX MEAN ROOF HEIGHT = 30 FEET EXPOSURE D

ASCE 7-10 170 MPH **DURATION OF LOAD INCREASE: 1.60** STUD DESIGN IS BASED ON COMPONENTS AND CLADDING. CONNECTION OF BRACING IS BASED ON MWFRS.





6904 Parke East Blvd. Tampa FL 33610 Date:

Standard Gable End Detail

MII-GE180-D-SP

MiTek USA, Inc.

Page 1 of 2

2X6 SP OR SPF No. 2 DIAGONAL BRACE

2X6 SP OR SPF No. 2

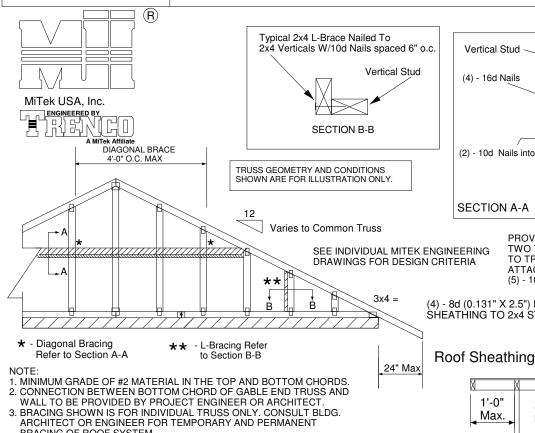
(2) - 10d NAILS

∕Trusses @ 24" o.c.

16d Nails

Spaced 6" o.c.

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

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

- 1Ó¢∕

NÁILS

(5) - 10d NAILS.

Vertical Stud

(4) - 16d Nails

(2) - 10d Nails into 2x6

1'-0"

Max.

Diag. Brace

at 1/3 points

End Wall

if needed

- 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
- 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)
- GABLE STUD DEFLECTIÓN 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
- 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	2x4 L-Brace	55465					
and Grade		Maximum Stud 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.

MAX MEAN ROOF HEIGHT = 30 FEET EXPOSURE D ASCE 7-10 180 MPH

DURATION OF LOAD INCREASE: 1.60

STUD DESIGN IS BASED ON COMPONENTS AND CLADDING. CONNECTION OF BRACING IS BASED ON MWFRS.



2x6 DIAGONAL BRACE SPACED

BLOCKING WITH (5) -10d NAILS.

48" O.C. ATTACHED TO VERTICAL WITH

(4) -16d NAILS, AND ATTACHED TO

В

MiTek USA, Inc. Page 1 of 1

MAXIMUM WIND SPEED = REFER TO NOTES D AND OR E

MAX MEAN ROOF HEIGHT = 30 FEET MAX TRUSS SPACING = 24 " O.C.

DURATION OF LOAD INCREASE: 1.60

CATEGORY II BUILDING EXPOSURE B or C

(R)

MiTek USA, Inc.



A - PIGGBACK TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING. SHALL BE CONNECTED TO EACH PURLIN

WITH (2) (0.131* X 3.5") TOE-NAILED.

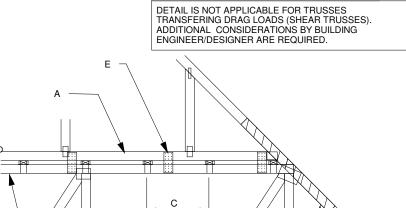
B - BASE TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.

C - PURLINS AT EACH BASE TRUSS JOINT AND A MAXIMUM 24" O.C.

IS CONTINUOUS OVER INTERSECTION AT LEAST 1 FT. IN BOTH DIRECTIONS AND:

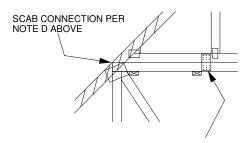
1. WIND SPEED OF 115 MPH OR LESS FOR ANY PIGGYBACK SPAN, OR 2. WIND SPEED OF 116 MPH TO 160 MPH WITH A MAXIMUM PIGGYBACK SPAN OF 12 ft.

FOR WIND SPEEDS BETWEEN 126 AND 160 MPH, ATTACH MITEK 3X8 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" EDGE DISTANCE. (MIN. 2 PAIRS OF PLATES REQ. REGARDLESS OF SPAN)

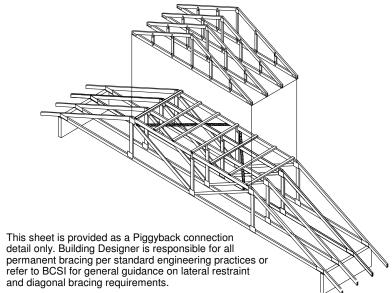


WHEN NO GAP BETWEEN PIGGYBACK AND BASE TRUSS EXISTS:

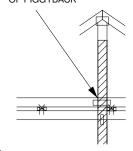
REPLACE TOE NAILING OF PIGGYBACK TRUSS TO PURLINS WITH Nail-On PLATES AS SHOWN, AND INSTALL PURLINS TO BOTTOM EDGE OF BASE TRUSS TOP CHORD AT SPECIFIED SPACING SHOWN ON BASE TRUSS MITEK DESIGN DRAWING.



FOR ALL WIND SPEEDS, ATTACH MITEK 3X6 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" 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
- 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 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.
- FOR PIGGYBACK TRUSSES CARRYING GIRDER LOADS, NUMBER OF PLYS OF PIGGYBACK TRUSS TO MATCH BASE TRUSS. CONCENTRATED LOAD MUST BE APPLIED TO BOTH
- THE PIGGYBACK AND THE BASE TRUSS DESIGN.

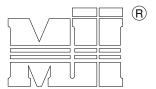


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STANDARD PIGGYBACK TRUSS CONNECTION DETAIL

MII-PIGGY-ALT 7-10





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ENGINEERED BY 別以

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 ASCE 7-10 **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. B BASE TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.

- 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.

 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

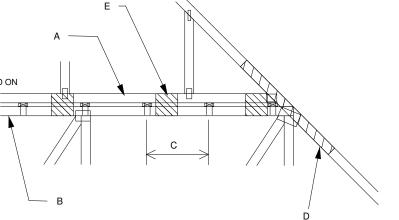
 INTERSECTION, WITH (2) ROWS OF (0.131" X 3") NAILS @ 4" O.C.

 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

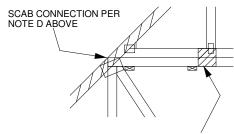
 2. WIND SPEED OF 116 MPH TO 160 MPH WITH A MAXIMUM
 PIGGYBACK SPAN OF 12 ft.

- E FOR WIND SPEED IN THE RANGE 126 MPH 160 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)

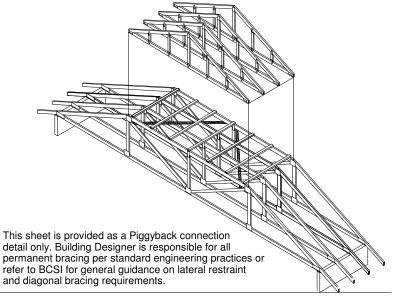


WHEN NO GAP BETWEEN PIGGYBACK AND BASE TRUSS EXISTS:

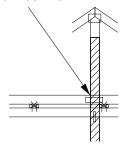
REPLACE TOE NAILING OF PIGGYBACK TRUSS TO PURLINS WITH PLYWOOD GUSSETS AS SHOWN, AND INSTALL PURLINS TO BOTTOM EDGE OF BASE TRUSS TOP CHORD AT SPECIFIED SPACING SHOWN ON BASE TRUSS MITEK DESIGN DRAWING.



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 (TÒTAL - 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.
- AS SHOWN IN DETAIL. ATTACH 2 \times _ \times 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.)
- 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
- FOR PIGGYBACK TRUSSES CARRYING GIRDER LOADS, NUMBER OF PLYS OF PIGGYBACK TRUSS TO MATCH BASE TRUSS. CONCENTRATED LOAD MUST BE APPLIED TO BOTH THE PIGGYBACK AND THE BASE TRUSS DESIGN.

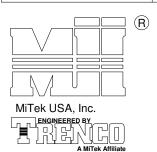


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STANDARD REPAIR DETAIL FOR BROKEN CHORDS, WEBS AND DAMAGED OR MISSING CHORD SPLICE PLATES

MII-REP01A1

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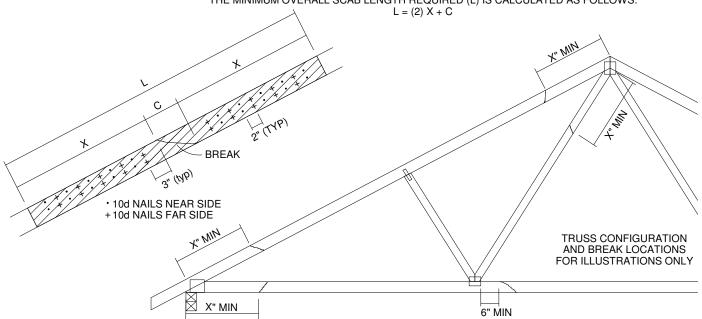


TOTAL NUMBER OF NAILS EACH SIDE		MAXIMUM FORCE (lbs) 15% LOAD DURATION								
OF BF		X INCHES	SP DF		SPF		HF			
2x4	2x6	INOTILO	2x4	2x6	2x4	2x6	2x4	2x6	2x4	2x6
20	30	24"	1706	2559	1561	2342	1320	1980	1352	2028
26	39	30"	2194	3291	2007	3011	1697	2546	1738	2608
32	48	36"	2681	4022	2454	3681	2074	3111	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:

- 1. 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. 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.
- THIS REPAIR IS LIMITED TO TRUSSES WITH NO MORE THAN THREE BROKEN MEMBERS.



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LATERAL TOE-NAIL DETAIL

MII-TOENAIL SP

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NOTES:

- 1. 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

ILLUSTRATION PURPOSES ONLY

NEAR SIDE

TOE-NAIL SINGLE SHEAR VALUES PER NDS 2001 (lb/nail) DIAM. SP DE HE SPF SPF-S .131 69.9 88.0 80.6 68.4 59.7 63.4 .135 93.5 85.6 74.2 72.6 108.8 99.6 86.4 84.5 73.8 .162 57.6 50.3 .128 74.2 67.9 58.9 51.1 .131 75.9 69.5 60.3 59.0 .148 81.4 74.5 64.6 63.2 52.5

LONG 3.5" LONG 3.25" [

SIDE VIEW (2x3)2 NÁILS **NEAR SIDE**

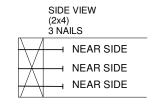
VIEWS SHOWN ARE FOR

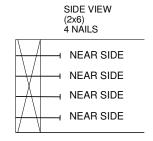
VALUES SHOWN ARE CAPACITY PER TOE-NAIL APPLICABLE DURATION OF LOAD INCREASES MAY BE APPLIED.

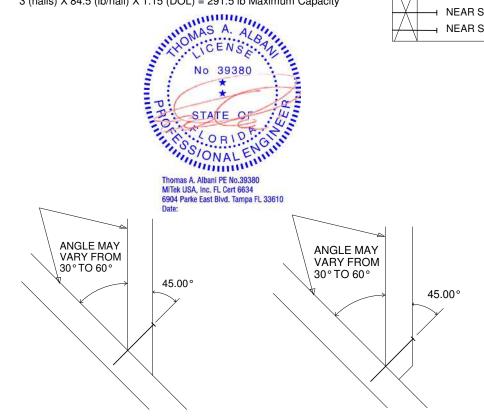
(3) - 16d (0.162" X 3.5") NAILS WITH SPF SPECIES BOTTOM CHORD

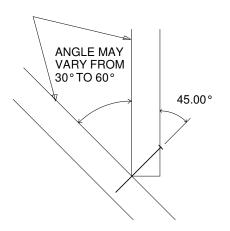
For load duration increase of 1.15:

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







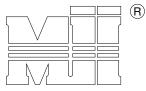


TRUSSED VALLEY SET DETAIL

MII-VALLEY HIGH WIND1

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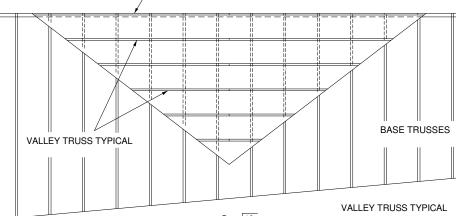
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GABLE END, COMMON TRUSS OR GIRDER TRUSS

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.
- 6. NAILING DONE PER NDS 01
- 7. VALLEY STUD SPACING NOT TO EXCEED 48" O.C.



GABLE END. COMMON TRUSS OR GIRDER TRUSS Ρ 12 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 7-10 160 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

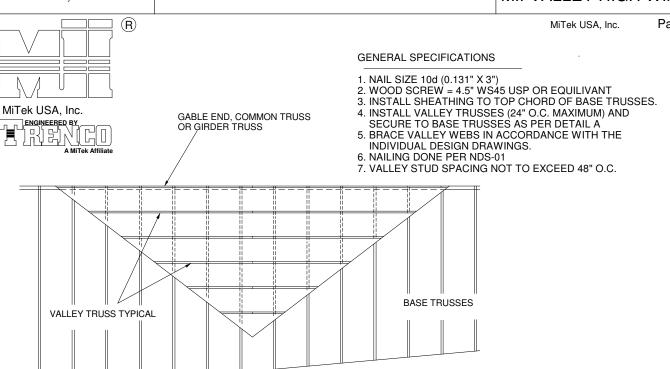


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TRUSSED VALLEY SET DETAIL

MII-VALLEY HIGH WIND2

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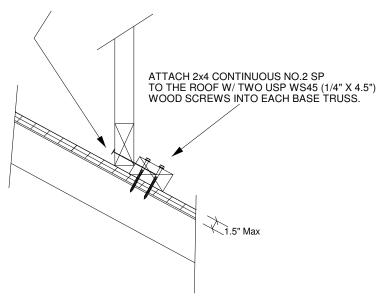


VALLEY TRUSS TYPICAL

GABLE END, COMMON TRUSS OR GIRDER TRUSS

SEE DETAIL
A BELOW (TYP.)

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



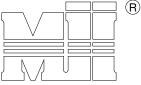
WIND DESIGN PER ASCE 7-98, ASCE 7-02, ASCE 7-05 146 MPH WIND DESIGN PER ASCE 7-10 160 MPH MAX MEAN ROOF HEIGHT = 30 FEET ROOF PITCH = MINIMUM 3/12 MAXIMUM 6/12 CATEGORY II BUILDING EXPOSURE C WIND DURATION OF LOAD INCREASE: 1.60 MAX TOP CHORD TOTAL LOAD = 50 PSF MAX SPACING = 24" O.C. (BASE AND VALLEY)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



Thomas A. Albani PE No.39380 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

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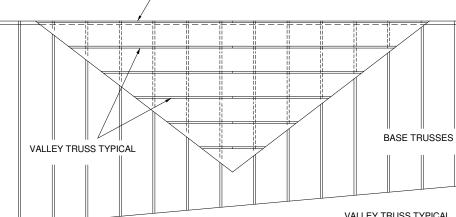


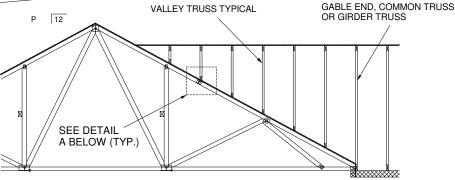


GABLE END, COMMON TRUSS OR GIRDER TRUSS

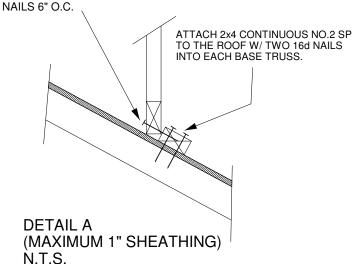
GENERAL SPECIFICATIONS

- 1. NAIL SIZE 16d (0.131" X 3.5") 2. INSTALL VALLEY 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.





SECURE VALLEY TRUSS W/ ONE ROW OF 16d



WIND DESIGN PER ASCE 7-98, ASCE 7-02, ASCE 7-05 120 MPH WIND DESIGN PER ASCE 7-10 150 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

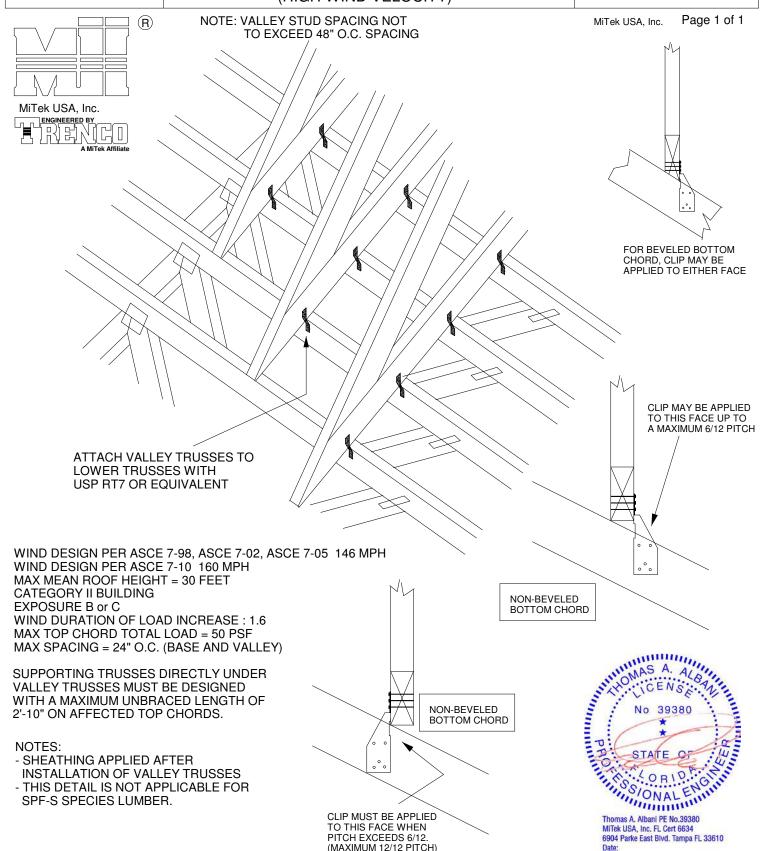
ON THE TRUSSES



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TRUSSED VALLEY SET DETAIL (HIGH WIND VELOCITY)

MII-VALLEY

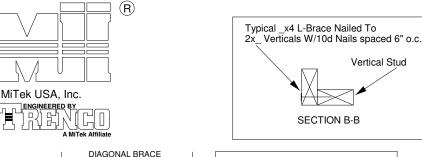


Standard Gable End Detail

MII-GE146-001

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Vertical Stud DIAGONAL BRACE (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

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 = Diagonal Bracing L-Bracing Refer ** Refer to Section A-A 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.

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)

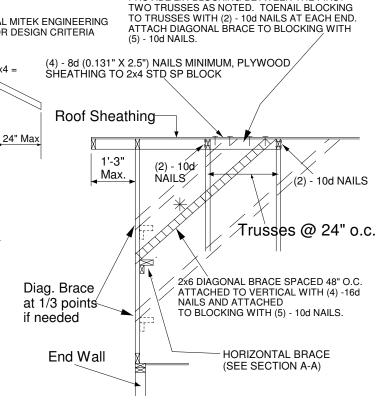
- 7. GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240.
- THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES
- 9. DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR TYPE TRUSSES.
- 10. NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

Minimum Stud Size Species	Stud Spacing	Without Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS	
and Grade		Maxin	num Stud L	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.

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 DURATION OF LOAD INCREASE : 1.60

STUD DESIGN IS BASED ON COMPONENTS AND CLADDING. CONNECTION OF BRACING IS BASED ON MWFRS.





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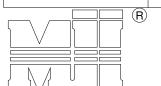
OCTOBER 5, 2016

REPLACE BROKEN OVERHANG

MII-REP13B

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ENGINEERED BY REN 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

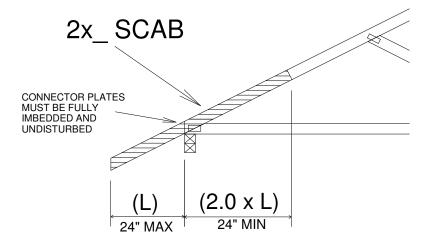
END BEARING CONDITION

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



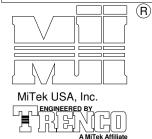
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LATERAL BRACING RECOMMENDATIONS

MII-STRGBCK

MiTek USA, Inc.

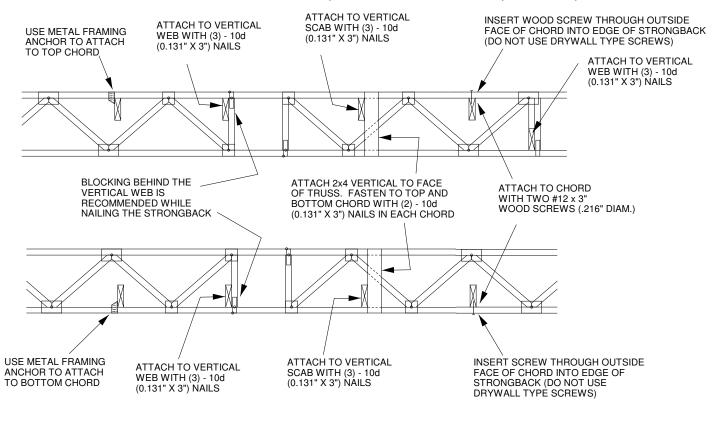
Page 1 of 1

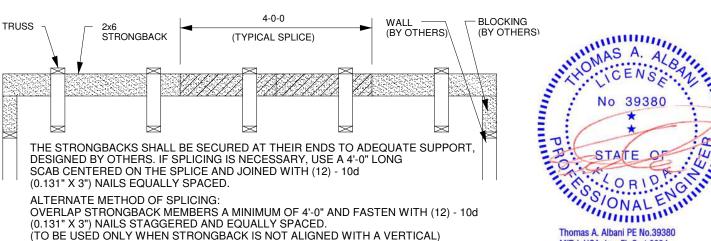


TO MINIMIZE VIBRATION COMMON TO ALL SHALLOW FRAMING SYSTEMS, 2x6 "STRONGBACK" IS RECOMMENDED, LOCATED EVERY 8 TO 10 FEET ALONG A FLOOR TRUSS.

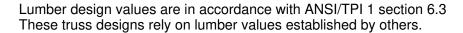
NOTE 1: 2X6 STRONGBACK ORIENTED VERTICALLY MAY BE POSITIONED DIRECTLY UNDER THE TOP CHORD OR DIRECTLY ABOVE THE BOTTOM CHORD. SECURELY FASTENED TO THE TRUSS USING ANY OF THE METHODS ILLUSTRATED BELOW.

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.





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





RE: 3267212 - PFS SOLUTIONS - SPEC HSE

MiTek USA, Inc.

16023 Swingley Ridge Rd Chesterfield, MO 63017

Site Information:

Customer Info: PFS SOLUTIONS Project Name: Spec Hse Model: Custom

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

Address: 947 SW Jaguar Drive, N/A

City: Columbia 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: FBC2020/TPI2014 Design Program: MiTek 20/20 8.5

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

This package includes 27 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	T28510296	CJ01	8/12/22	15	T28510310	T07	8/12/22
2	T28510297	CJ03	8/12/22	16	T28510311	T08	8/12/22
3	T28510298	CJ05	8/12/22	17	T28510312	T09	8/12/22
4	T28510299	EJ01	8/12/22	18	T28510313	T10	8/12/22
5	T28510300	HJ10	8/12/22	19	T28510314	T11	8/12/22
6	T28510301	PB01	8/12/22	20	T28510315	T12	8/12/22
7	T28510302	T01	8/12/22	21	T28510316	T13	8/12/22
8	T28510303	T01G	8/12/22	22	T28510317	T14	8/12/22
9	T28510304	T02	8/12/22	23	T28510318	T15	8/12/22
10	T28510305	T03	8/12/22	24	T28510319	T16	8/12/22
11	T28510306	T03G	8/12/22	25	T28510320	T17	8/12/22
12	T28510307	<u>T</u> 04	8/12/22	26	T28510321	<u>T</u> 18	8/12/22
13	T28510308	T05	8/12/22	27	T28510322	T19	8/12/22
14	T28510309	T06	8/12/22				

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature.

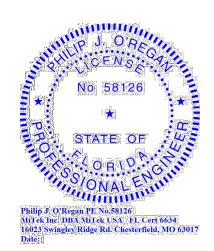
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The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Builders FirstSource-Lake City, FL.

Truss Design Engineer's Name: ORegan, Philip

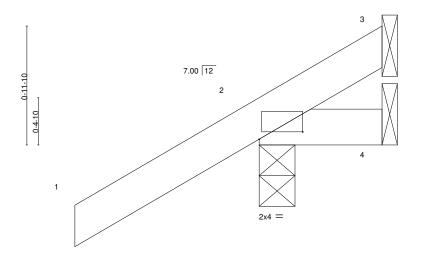
My license renewal date for the state of Florida is February 28, 2023.

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.



August 12,2022

Job Truss Truss Type Qty Ply PFS SOLUTIONS - SPEC HSE T28510296 3267212 CJ01 Jack-Open Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Jul 18 2022 MiTek Industries, Inc. Thu Aug 11 07:32:09 2022 Page 1 ID:AikhQnQaXDkp1nIRSQBZ3qyp?mU-EX588_1zegO99VqG6cWX4BkVhJifGzalXT1?rYyp_gq 1-6-0 1-6-0



1-0-0 1-0-0

Plate Of	tsets (X,Y)	[2:0-4-4,0-0-12]										
LOADIN	IG (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.16	Vert(LL)	0.00	7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.04	Vert(CT)	0.00	7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code FBC2020/TP	PI2014	Matri	x-MP	, ,					Weight: 6 lb	FT = 20%

LUMBER-

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

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 1-0-0 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=46(LC 12)

Max Uplift 3=-6(LC 1), 2=-68(LC 12), 4=-19(LC 1) Max Grav 3=7(LC 16), 2=179(LC 1), 4=20(LC 16)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 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 6 lb uplift at joint 3, 68 lb uplift at joint 2 and 19 lb uplift at joint 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.

Scale = 1:9.4

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

August 12,2022

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

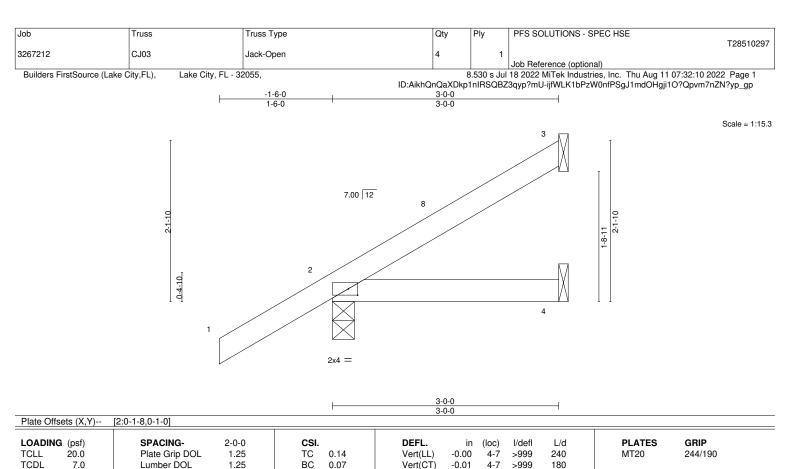
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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information

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



16023 Swingley Ridge Rd



Horz(CT)

0.00

n/a

n/a

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

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

Weight: 12 lb

FT = 20%

0.0 **BCLL** 10.0

LUMBER-TOP CHORD 2x4 SP No.2

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

YES

WB

Matrix-MP

0.00

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

Code FBC2020/TPI2014

Max Horz 2=85(LC 12)

Max Uplift 3=-39(LC 12), 2=-54(LC 12)

Rep Stress Incr

Max Grav 3=63(LC 19), 2=210(LC 1), 4=50(LC 3)

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

NOTES-

BCDL

BOT CHORD

REACTIONS.

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 2-11-4 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 39 lb uplift at joint 3 and 54 lb uplift at ioint 2.

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:

August 12,2022

16023 Swingley Ridge Rd

PFS SOLUTIONS - SPEC HSE Job Truss Truss Type Qty Ply T28510298 3267212 CJ05 4 Jack-Open Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Jul 18 2022 MiTek Industries, Inc. Thu Aug 11 07:32:11 2022 Page 1 ID:AikhQnQaXDkp1nIRSQBZ3qyp?mU-AvDuZg2DAHftPp_eD1Y?9cppD6L_kt32_nW6vRyp_go 1-6-0 Scale = 1:21.0 7.00 12 2-10-11 0-4-10 5-0-0 5-0-0

LOADING (psf) SPACING-DEFL. PLATES GRIP 2-0-0 CSI. (loc) I/defl L/d **TCLL** 20.0 Plate Grip DOL 1.25 TC 0.28 Vert(LL) 0.03 4-7 >999 240 MT20 244/190 TCDL 7.0 Lumber DOL 1.25 вс 0.24 Vert(CT) -0.05 >999 180 WB 0.00 **BCLL** 0.0 Rep Stress Incr YES Horz(CT) 0.00 3 n/a n/a

LUMBER-

BCDL

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

10.0

BRACING-

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

Weight: 19 lb

FT = 20%

REACTIONS.

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

Code FBC2020/TPI2014

Max Horz 2=125(LC 12)

Max Uplift 3=-73(LC 12), 2=-57(LC 12)

Max Grav 3=118(LC 19), 2=276(LC 1), 4=89(LC 3)

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

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 4-11-4 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.

Matrix-MP

- 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 73 lb uplift at joint 3 and 57 lb uplift at ioint 2.

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August 12,2022

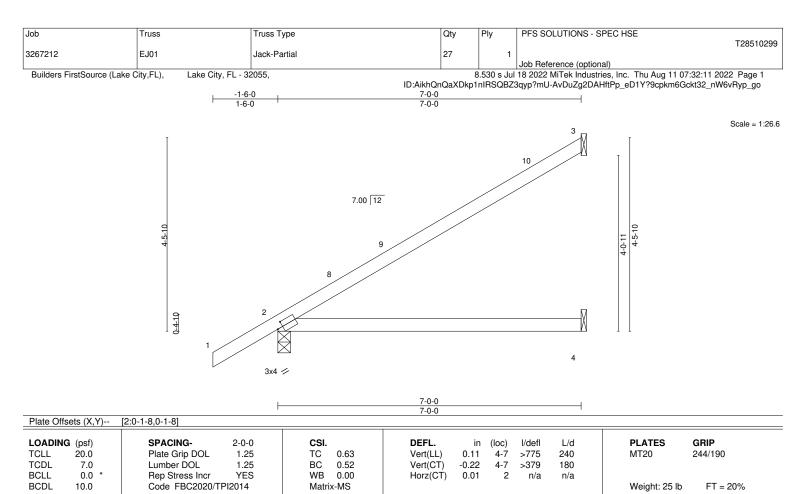


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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





LUMBER-

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

TOP CHORD BOT CHORD Structural wood sheathing directly applied or 6-0-0 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=159(LC 12)

Max Uplift 3=-94(LC 12), 2=-66(LC 12)

Max Grav 3=171(LC 19), 2=346(LC 1), 4=126(LC 3)

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

NOTES-

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 6-11-4 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 94 lb uplift at joint 3 and 66 lb uplift at joint 2.

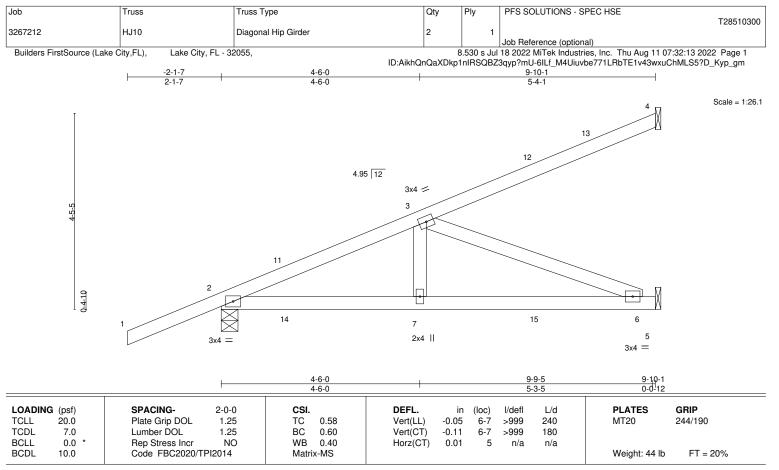
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Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

August 12,2022







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.

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

REACTIONS. (size) 4=Mechanical, 2=0-4-9, 5=Mechanical

Max Horz 2=159(LC 26)

Max Uplift 4=-84(LC 8), 2=-184(LC 4), 5=-77(LC 8) Max Grav 4=149(LC 1), 2=527(LC 1), 5=299(LC 1)

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

TOP CHORD 2-3=-727/186 **BOT CHORD**

2-7=-260/629 6-7=-260/629 WFBS 3-7=0/283. 3-6=-674/279

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; 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.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 84 lb uplift at joint 4, 184 lb uplift at joint 2 and 77 lb uplift at joint 5.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 61 lb down and 73 lb up at 1-6-1, 61 lb down and 73 lb up at 1-6-1, 78 lb down and 42 lb up at 4-4-0, 78 lb down and 42 lb up at 4-4-0, and 106 lb down and 84 lb up at 7-1-15, and 106 lb down and 84 lb up at 7-1-15 on top chord, and 19 lb down and 44 lb up at 1-6-1, 19 lb down and 44 lb up at 1-6-1, 24 lb down at 4-4-0, 24 lb down at 4-4-0, and 46 lb down at 7-1-15, and 46 lb down 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: 1-4=-54, 5-8=-20 Concentrated Loads (lb)

Vert: 7=-5(F=-3, B=-3) 12=-73(F=-36, B=-36) 15=-59(F=-29, B=-29)

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August 12,2022

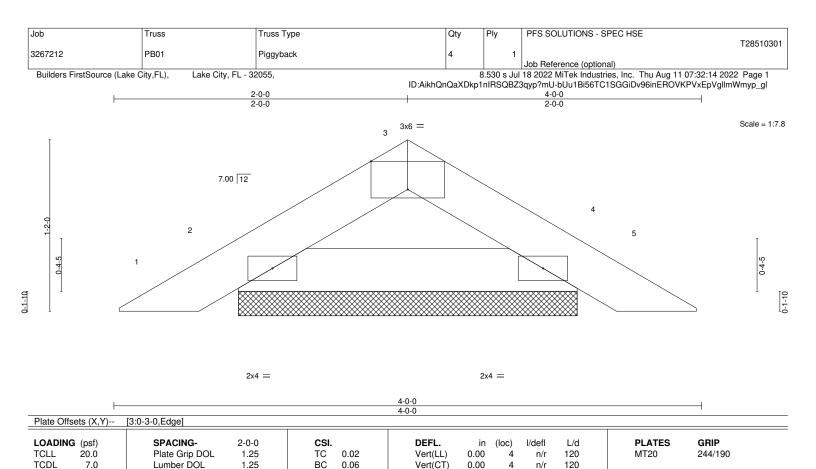
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16023 Swingley Ridge Rd



Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

0.00

n/a

n/a

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

Structural wood sheathing directly applied or 4-0-0 oc purlins.

Weight: 10 lb

FT = 20%

LUMBER-TOP CHORD BOT CHORD

REACTIONS.

BCLL

BCDL

2x4 SP No.2

0.0

10.0

2x4 SP No.2

Max Horz 2=-22(LC 10) Max Uplift 2=-30(LC 12), 4=-30(LC 13) Max Grav 2=114(LC 1), 4=114(LC 1)

(size) 2=2-3-11, 4=2-3-11

Rep Stress Incr

Code FBC2020/TPI2014

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 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 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.

WB

Matrix-P

0.00

- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

YES

- 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 30 lb uplift at joint 2 and 30 lb uplift at joint 4.
- 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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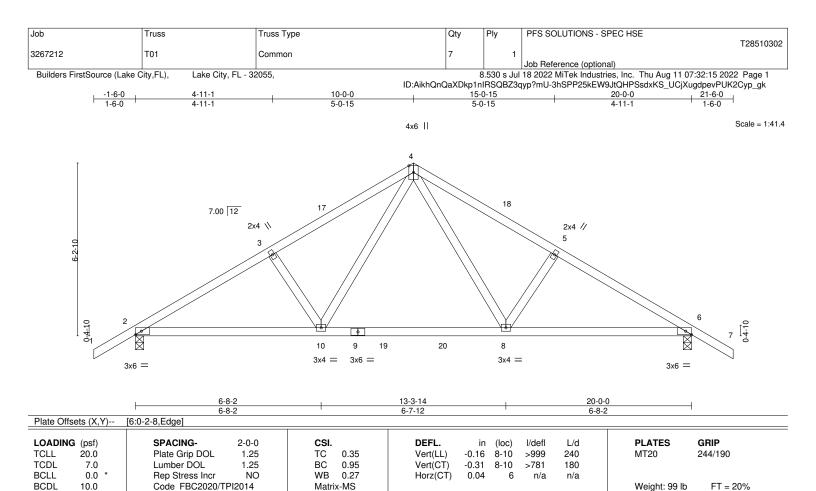


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BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS.

(size) 2=0-3-8, 6=0-3-8 Max Horz 2=-148(LC 10)

Max Uplift 2=-237(LC 12), 6=-237(LC 13) Max Grav 2=1116(LC 19), 6=1116(LC 20)

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

TOP CHORD 2-3=-1696/346. 3-4=-1588/362. 4-5=-1589/362. 5-6=-1696/346

2-10=-314/1519, 8-10=-131/992, 6-8=-216/1409 BOT CHORD

WFBS 4-8=-190/799, 5-8=-253/169, 4-10=-190/799, 3-10=-253/169

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 10-0-0, Exterior(2R) 10-0-0 to 13-0-0, Interior(1) 13-0-0 to 21-6-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate arip 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, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 237 lb uplift at joint 2 and 237 lb uplift at
- 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: 1-4=-54, 4-7=-54, 10-11=-20, 8-10=-80(F=-60), 8-14=-20

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Structural wood sheathing directly applied or 4-5-6 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:

August 12,2022

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



Job Truss Truss Type Qty Ply PFS SOLUTIONS - SPEC HSE T28510303 3267212 T01G Common Supported Gable Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Jul 18 2022 MiTek Industries, Inc. Thu Aug 11 07:32:17 2022 Page 1 ID:AikhQnQaXDkp1nIRSQBZ3qyp?mU-?3a9pj7_m7P07kRoaHfPPt3t6XRg8ZXxNizQ75yp_gi 10-0-0 10-0-0 1-6-0 Scale = 1:40.0 4x4 = 8 9 7.00 12 10 6 11 5 12 3x10 || 3x10 || 13 3 26 25 14 15 14

20-0-0 [2:0-3-8,Edge], [14:0-3-8,Edge], [19:0-3-0,0-3-0] Plate Offsets (X,Y)--

20

19

5x6 =

18

21

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	0.13	Vert(LL)	-0.01	15	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.03	Vert(CT)	-0.01	15	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	14	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-S						Weight: 114 lb	FT = 20%

LUMBER-

OTHERS

TOP CHORD 2x4 SP No 2 BOT CHORD 2x4 SP No 2 2x4 SP No 3 BRACING-

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

4x8 II

16

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

17

REACTIONS. All bearings 20-0-0.

Max Horz 2=-140(LC 10)

4x8 II

Max Uplift All uplift 100 lb or less at joint(s) 2, 14, 21, 22, 23, 24, 19, 18, 17, 16 Max Grav All reactions 250 lb or less at joint(s) 2, 14, 20, 21, 22, 23, 24, 19, 18, 17, 16

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

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-6-0 to 1-6-0, Exterior(2N) 1-6-0 to 10-0-0, Corner(3R) 10-0-0 to 13-0-0, Exterior(2N) 13-0-0 to 21-6-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate

22

23

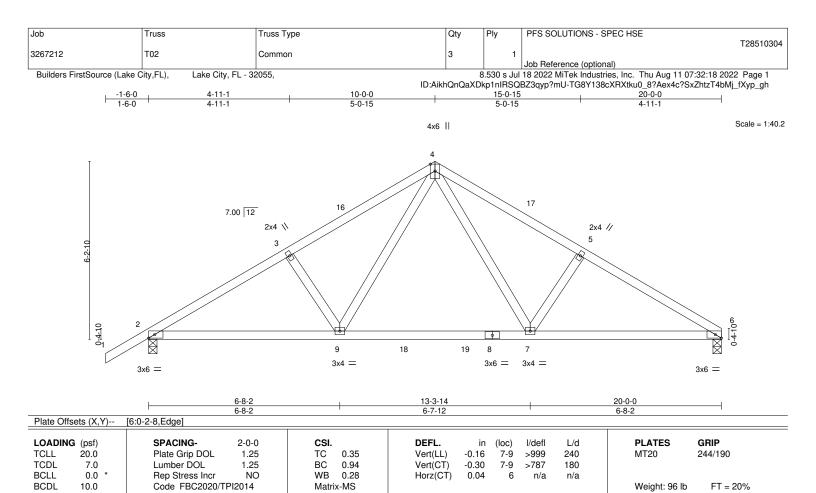
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 14, 21, 22, 23, 24, 19, 18, 17, 16.

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:

August 12,2022





BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

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

Max Horz 2=141(LC 9)

Max Uplift 6=-203(LC 13), 2=-237(LC 12) Max Grav 6=1039(LC 20), 2=1118(LC 19)

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

TOP CHORD 2-3=-1699/347, 3-4=-1591/363, 4-5=-1604/371, 5-6=-1712/355

BOT CHORD 2-9=-328/1512 7-9=-145/985 6-7=-250/1431

WFBS 4-7=-198/814, 5-7=-261/174, 4-9=-189/798, 3-9=-253/169

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 10-0-0, Exterior(2R) 10-0-0 to 13-0-0, Interior(1) 13-0-0 to 20-0-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=203, 2=237.
- 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: 1-4=-54, 4-6=-54, 9-13=-20, 7-9=-80(F=-60), 7-10=-20

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Structural wood sheathing directly applied or 4-5-3 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:

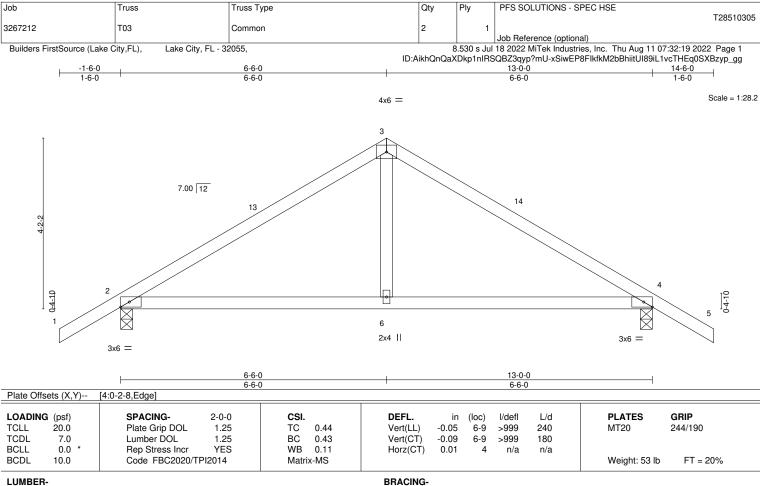
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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





TOP CHORD

BOT CHORD

LUMBER-

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

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

Max Horz 2=-103(LC 10)

Max Uplift 2=-131(LC 12), 4=-131(LC 13) Max Grav 2=562(LC 1), 4=562(LC 1)

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

TOP CHORD 2-3=-607/160, 3-4=-607/160

BOT CHORD 2-6=-45/455, 4-6=-45/455

WFBS 3-6=0/298

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl. GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 6-6-0, Exterior(2R) 6-6-0 to 9-6-0, Interior(1) 9-6-0 to 14-6-0 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=131, 4=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:

August 12,2022



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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



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

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

16023 Swingley Ridge Rd Chesterfield, MO 63017

PFS SOLUTIONS - SPEC HSE Job Truss Truss Type Qty Ply T28510306 3267212 T03G Common Supported Gable Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Jul 18 2022 MiTek Industries, Inc. Thu Aug 11 07:32:20 2022 Page 1 ID:AikhQnQaXDkp1nIRSQBZ3qyp?mU-PeGISI9t32nb_BANFQD61VhO6kSCLxpN3gC5kQyp_gf 14-6-0 1-6-0 Scale = 1:27.1 4x4 = 6 2x4 || 7 2x4 || 7.00 12 5 3x10 || 9 3x10 || 3 18 17 10 0-4-10 16 15 14 13 12 4x8 II 4x8 II 2x4 || 2x4 | 2x4 | 2x4 || 2x4 ||

	<u>'</u>		13-0-0	<u>'</u>
Plate Offsets (X,Y)	[2:0-3-8,Edge], [10:0-3-8,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 0.14	Vert(LL) -0.01 11 n/r 120	MT20 244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.04	Vert(CT) -0.01 11 n/r 120	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.03	Horz(CT) 0.00 10 n/a n/a	
BCDL 10.0	Code FBC2020/TPI2014	Matrix-S		Weight: 69 lb FT = 20%

13-0-0

LUMBER-

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

BRACING-

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

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

REACTIONS. All bearings 13-0-0.

Max Horz 2=95(LC 11)

Max Uplift All uplift 100 lb or less at joint(s) 2, 10, 15, 16, 13, 12 Max Grav All reactions 250 lb or less at joint(s) 2, 10, 14, 15, 16, 13, 12

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

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl. GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-6-0 to 1-6-0, Exterior(2N) 1-6-0 to 6-6-0, Corner(3R) 6-6-0 to 9-6-0, Exterior(2N) 9-6-0 to 14-6-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- 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, 10, 15, 16, 13, 12.

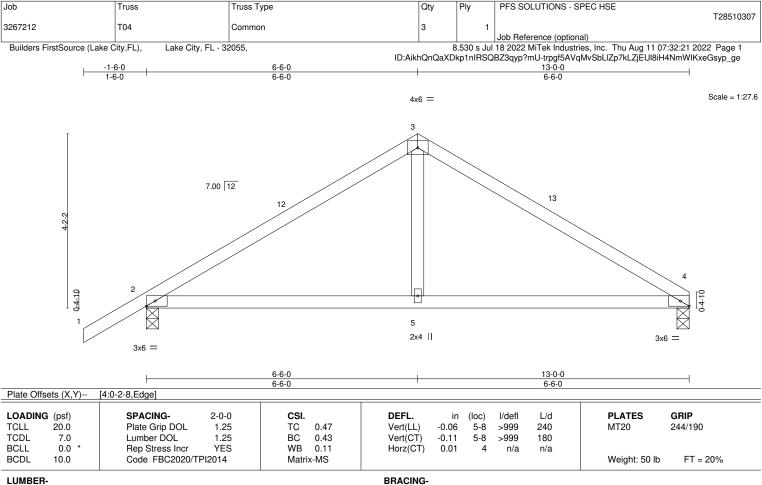
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August 12,2022







TOP CHORD

BOT CHORD

LUMBER-

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

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

Max Horz 2=96(LC 11)

Max Uplift 4=-97(LC 13), 2=-132(LC 12) Max Grav 4=476(LC 1), 2=567(LC 1)

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

TOP CHORD 2-3=-620/170. 3-4=-618/171

BOT CHORD 2-5=-68/466, 4-5=-68/466

WFBS 3-5=-2/300

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl. GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 6-6-0, Exterior(2R) 6-6-0 to 9-6-0, Interior(1) 9-6-0 to 13-0-0 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 2=132.

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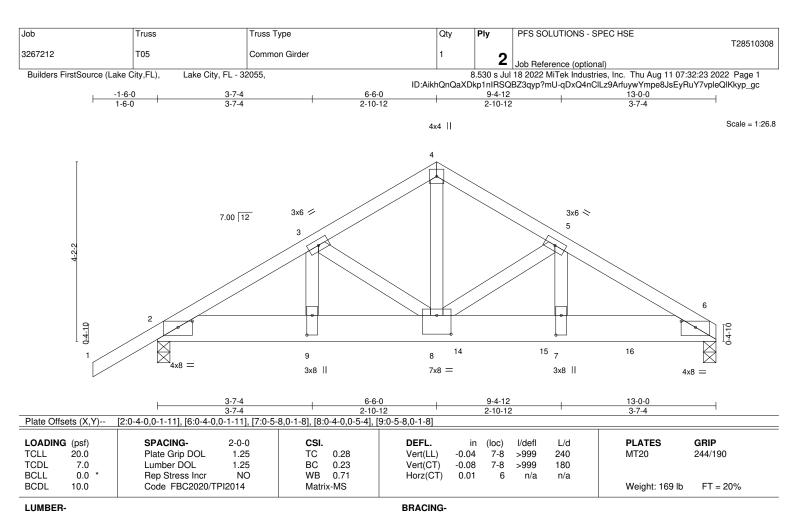
Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:



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

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

August 12,2022



TOP CHORD

BOT CHORD

LUMBER-

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

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

Max Horz 2=96(LC 7)

Max Uplift 6=-957(LC 9), 2=-649(LC 8) Max Grav 6=3667(LC 1), 2=2242(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-3744/1066, 3-4=-3936/1179, 4-5=-3934/1175, 5-6=-5812/1588 BOT CHORD 2-9=-927/3193, 8-9=-927/3193, 7-8=-1323/4991, 6-7=-1323/4991

WFBS 4-8=-1114/3740. 5-8=-1971/509. 5-7=-434/1951. 3-8=-261/333. 3-9=-346/176

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 0-4-0 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 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; 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) 6=957, 2=649.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2566 lb down and 914 lb up at 7-0-12, and 1157 lb down and 255 lb up at 9-0-12, and 1294 lb down and 252 lb up at 11-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

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, 2-6=-20

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Structural wood sheathing directly applied or 5-1-12 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:

August 12,2022

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Job	Truss	Truss Type	Qty	Ply	PFS SOLUTIONS - SPEC HSE
0007040	T05				T28510308
3267212	T05	Common Girder	1	2	Job Reference (optional)

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.530 s Jul 18 2022 MiTek Industries, Inc. Thu Aug 11 07:32:23 2022 Page 2 ID:AikhQnQaXDkp1nIRSQBZ3qyp?mU-qDxQ4nClLz9ArfuywYmpe8JsEyRuY7vpleQlKkyp_gc

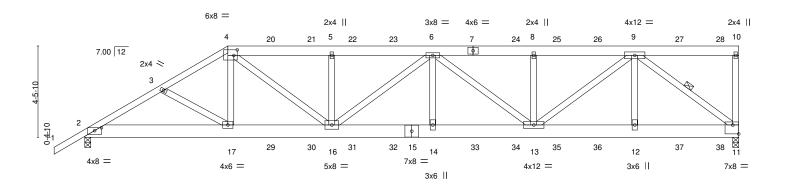
LOAD CASE(S) Standard Concentrated Loads (lb)

Vert: 14=-2566(F) 15=-1157(F) 16=-1157(F)

Job	Truss	Truss Type		Qty	Ply	PES SOLUTIONS - SPEC HSE	
						T28510)309
3267212	T06	Half Hip Girder		1	1		
						Job Reference (optional)	
Builders FirstSource (Lake C	City,FL), Lake City, FL -	32055,		8	.530 s Jul	18 2022 MiTek Industries, Inc. Thu Aug 11 07:32:25 2022 Page	Ī
			ID:AikhC	nQaXDkp	1nIRSQBZ	3qyp?mU-mc3BVSD?taPu4z2K2zoHkZO93l6?0?g6CyvsPdyp ga	
160 2104	7.0.0	10 1 1	17.0.6	21.1	1 10	26 10 15	

4-11-5

Scale = 1:56.4



1	7-0-0	12-1-	1 1	17-0)-6	21-11-10	1	26-10-15	32-0-0)
	7-0-0	5-1-	1	4-11	-5	4-11-5		4-11-5	5-1-1	1
Plate Offsets (X,Y)	[2:0-4-0,0-1-11], [4:0-2-0	,0-3-4], [11:Edg	e,0-5-4]							
LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defI	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC	0.45	Vert(LL)	-0.19 14-16	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC	0.26	Vert(CT)	-0.36 14-16	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB	0.89	Horz(CT)	0.07 11	n/a	n/a		
BCDL 10.0	Code FBC2020/T	PI2014	Matri	ix-MS	, ,				Weight: 251 lb	FT = 20%
					1				•	

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

2x6 SP No.2 *Except* TOP CHORD

1-4: 2x4 SP No 2 BOT CHORD 2x8 SP 2400F 2.0E

WEBS 2x4 SP No.3

REACTIONS. (size) 11=0-3-8, 2=0-3-8

3-10-4

Max Horz 2=165(LC 8)

Max Uplift 11=-991(LC 5), 2=-730(LC 8)

Max Grav 11=2725(LC 1), 2=2389(LC 1)

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

TOP CHORD 2-3=-4207/1337, 3-4=-4076/1340, 4-5=-4898/1690, 5-6=-4894/1688, 6-8=-4452/1554,

8-9=-4452/1554, 10-11=-381/213

BOT CHORD 2-17=-1206/3585, 16-17=-1177/3524, 14-16=-1815/5212, 13-14=-1815/5212,

12-13=-980/2789, 11-12=-980/2789

WEBS $4\text{-}17\text{=-}116/671,\ 4\text{-}16\text{=-}684/1782,\ 5\text{-}16\text{=-}616/337,\ 6\text{-}16\text{=-}443/192,\ 6\text{-}14\text{=-}5/431,}$ 6-13=-971/334, 8-13=-499/279, 9-13=-734/2126, 9-12=0/444, 9-11=-3534/1241

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; 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)
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 128 lb down and 101 lb up at 7-0-0, 125 lb down and 98 lb up at 9-0-12, 125 lb down and 98 lb up at 11-0-12, 125 lb down and 98 lb up at 13-0-12, 125 lb down and 98 lb up at 15-0-12, 125 lb down and 98 lb up at 17-0-12, 125 lb down and 98 lb up at 19-0-12, 125 lb down and 98 lb up at 21-0-12, 125 lb down and 98 lb up at 23-0-12, 125 lb down and 98 lb up at 25-0-12, 125 lb down and 98 lb up at 27-0-12, 125 lb down and 98 lb up at 29-0-12, and 128 lb down and 98 lb up at 31-0-12, and 139 lb down and 96 lb up at 31-10-4 on top chord, and 336 lb down and 126 lb up at 7-0-0, 86 lb down and 20 lb up at 9-0-12, 86 lb down and 20 lb up at 11-0-12, 86 lb down and 20 lb up at 13-0-12, 86 lb down and 20 lb up at 15-0-12, 86 lb down and 20 lb up at 19-0-12, 86 lb down and 20 lb up at 19-0-12, 86 lb down and 20 lb up at 21-0-12, 86 lb down and 20 lb up at 23-0-12, 86 lb down and 20 lb up at 25-0-12, 86 lb down and 20 lb up at 27-0-12, and 86 lb down and 20 lb up at 29-0-12, and 91 lb down and 18 lb up at 31-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

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:

August 12,2022

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 chorembers 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 sand truss systems, see

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



Structural wood sheathing directly applied or 2-8-7 oc purlins,

Rigid ceiling directly applied or 8-11-0 oc bracing.

except end verticals.

1 Row at midpt

16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	PFS SOLUTIONS - SPEC HSE
					T28510309
3267212	T06	Half Hip Girder	1	1	
					Job Reference (optional)

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.530 s Jul 18 2022 MiTek Industries, Inc. Thu Aug 11 07:32:25 2022 Page 2 ID:AikhQnQaXDkp1nIRSQBZ3qyp?mU-mc3BVSD?taPu4z2K2zoHkZO93I6?0?g6CyvsPdyp_ga

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-54, 4-10=-54, 2-11=-20

Concentrated Loads (lb)

26=-109(F) 7=-109(F) 10=-139(F) 17=-336(F) 14=-64(F) 6=-109(F) 12=-64(F) 9=-109(F) 20=-109(F) 21=-109(F) 22=-109(F) 23=-109(F) 24=-109(F) 25=-109(F) 26=-109(F) 27=-109(F) 28=-115(F) 29=-64(F) 30=-64(F) 31=-64(F) 32=-64(F) 33=-64(F) 35=-64(F) 35=-64(F) 37=-64(F) 38=-67(F)

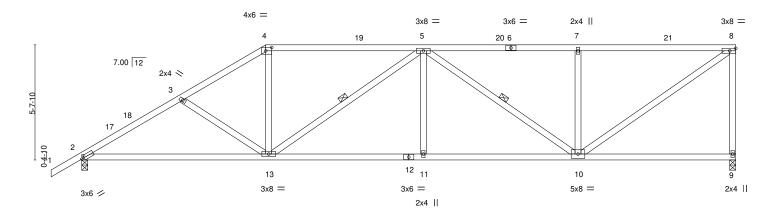
16023 Swingley Ridge Rd Chesterfield, MO 63017

Job Truss Truss Type Qty Ply PFS SOLUTIONS - SPEC HSE T28510310 3267212 T07 Half Hip Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Jul 18 2022 MiTek Industries, Inc. Thu Aug 11 07:32:26 2022 Page 1 ID:AikhQnQaXDkp1nIRSQBZ3qyp?mU-EodZioEeeuXli6dXcgKWGmxDo9K2IVFGRcfPx3yp_gZ 9-0-0 4-0-12 16-8-9 24-3-7 7-6-13 32-0-0 7-8-9

7-8-9

16-8-9

Scale = 1:56.4



		9-0-0		7-8-9	T		7-6-13			7-8-9		
Plate Offsets	s (X,Y)	[2:0-1-8,0-1-8], [4:0-3-8,0)-2-0]									
LOADING (psf)	SPACING-	2-0-0	CSI.	DE	FL.	in (loc)	I/defl	L/d	PLATES	GRIP	
TCLL 2	20.0	Plate Grip DOL	1.25	TC 0.90	Ver	t(LL)	-0.15 13-16	>999	240	MT20	244/190	
TCDL	7.0	Lumber DOL	1 25	BC 0.78	Ver	t(CT)	-0.31 13-16	>999	180			

24-3-7

except end verticals.

1 Row at midpt

BCLL 0.0 YES WB 0.67 Horz(CT) 0.07 Rep Stress Incr n/a n/a BCDL 10.0 Code FBC2020/TPI2014 Matrix-MS Weight: 177 lb FT = 20% **BRACING-**

TOP CHORD

BOT CHORD

WEBS

LUMBER-

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

2x4 SP No.3 WFBS

REACTIONS. (size) 9=0-3-8, 2=0-3-8

Max Horz 2=207(LC 12)

Max Uplift 9=-308(LC 9), 2=-306(LC 12) Max Grav 9=1177(LC 1), 2=1262(LC 1)

9-0-0

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

TOP CHORD 2-3=-1952/469, 3-4=-1740/420, 4-5=-1468/399, 5-7=-1343/348, 7-8=-1343/348,

8-9=-1109/326

BOT CHORD 2-13=-525/1651, 11-13=-466/1815, 10-11=-466/1815

 $3-13=-274/152,\ 4-13=-66/567,\ 5-13=-514/217,\ 5-11=0/282,\ 5-10=-578/229,\$ **WEBS**

7-10=-434/210, 8-10=-418/1613

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-8-6, Interior(1) 1-8-6 to 9-0-0, Exterior(2R) 9-0-0 to 13-6-5, Interior(1) 13-6-5 to 31-10-4 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=308, 2=306.

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:

August 12,2022



32-0-0

Structural wood sheathing directly applied or 3-4-15 oc purlins,

5-13, 5-10

Rigid ceiling directly applied or 8-1-12 oc bracing.

Job Truss Truss Type Qty Ply PFS SOLUTIONS - SPEC HSE T28510311 T08 3267212 qiH Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Jul 18 2022 MiTek Industries, Inc. Thu Aug 11 07:32:27 2022 Page 1 ID:AikhQnQaXDkp1nIRSQBZ3qyp?mU-i_Bxw8FGPCgcJGCj9Orlp_URyZj9UyjPgGOyTWyp_gY 19-0-0 27-0-0 32-0-0

8-0-0

Scale = 1:56.1

5-0-0

5-0-0

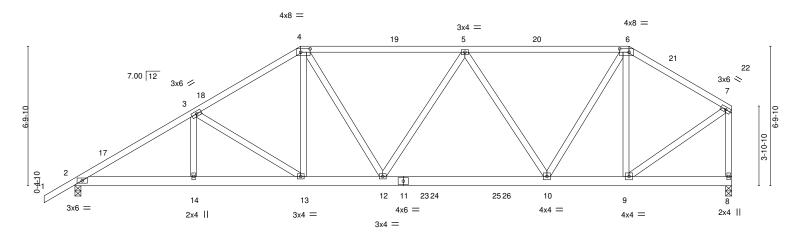


Plate Offsets (X,Y)	Plate Offsets (X,Y) [4:0-5-8,0-2-0], [6:0-5-8,0-2-0]										
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP							
TCLL 20.0	Plate Grip DOL 1.25	TC 0.74	Vert(LL) -0.11 10-12 >999 240	MT20 244/190							
TCDL 7.0	Lumber DOL 1.25	BC 0.53	Vert(CT) -0.22 10-12 >999 180								
BCLL 0.0 *	Rep Stress Incr YES	WB 0.66	Horz(CT) 0.05 8 n/a n/a								
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS		Weight: 217 lb FT = 20%							

15-0-0

4-0-0

LUMBER-

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

2x4 SP No.3 WFBS

BOT CHORD

BRACING-

8-0-0

TOP CHORD Structural wood sheathing directly applied or 3-3-3 oc purlins,

4-0-0

except end verticals.

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

8-0-0

REACTIONS.

(size) 2=0-3-8, 8=0-3-8 Max Horz 2=192(LC 12)

Max Uplift 2=-239(LC 12), 8=-142(LC 13) Max Grav 2=1405(LC 2), 8=1373(LC 2)

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

TOP CHORD 2-3=-2307/328, 3-4=-1854/278, 4-5=-1750/204, 5-6=-1423/115, 6-7=-1120/134,

7-8=-1286/157

BOT CHORD 2-14=-378/1949, 13-14=-378/1949, 12-13=-227/1555, 10-12=-199/1712, 9-10=-77/912 $3-14=0/260,\ 3-13=-561/181,\ 4-13=-101/377,\ 4-12=-9/435,\ 5-10=-599/200,\ 6-10=-31/983,$ **WEBS**

5-2-10

6-9=-547/51, 7-9=-104/1113

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-8-6, Interior(1) 1-8-6 to 11-0-0, Exterior(2R) 11-0-0 to 15-6-5, Interior(1) 15-6-5 to 27-0-0, Exterior(2R) 27-0-0 to 31-6-5, Interior(1) 31-6-5 to 31-10-4 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) 150.0lb AC unit load placed on the bottom chord, 19-0-0 from left end, supported at two points, 4-0-0 apart.
- 5) Provide adequate drainage to prevent water ponding.
- 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, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=239, 8=142.

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:

August 12,2022

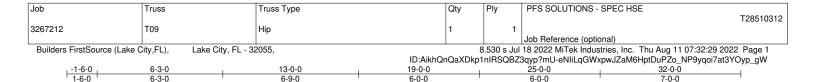
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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ANSI/TPI 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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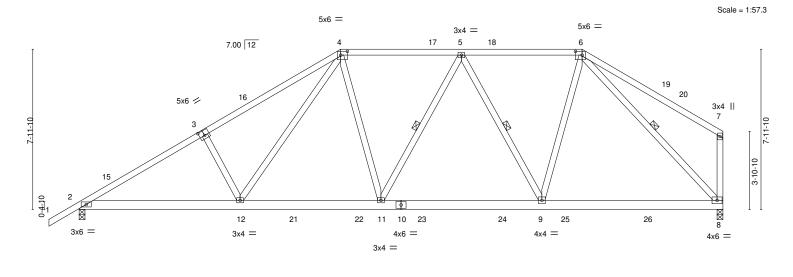


Plate Offsets (X,Y) [3:0-3-0,0-3-0], [4:0-4-0,0-2-4], [6:0-4-0,0-2-4]										
LOADING (psf) TCLL 20.0	SPACING- 2-0-0 Plate Grip DOL 1.25	CSI. TC 0.65	DEFL. in (loc) I/defl L/d Vert(LL) -0.10 11-12 >999 240	PLATES GRIP MT20 244/190						
TCDL 7.0 BCLL 0.0 * BCDL 10.0	Lumber DOL 1.25 Rep Stress Incr YES Code FBC2020/TPI2014	BC 0.56 WB 0.81 Matrix-MS	Vert(CT) -0.19 9-11 >999 180 Horz(CT) 0.05 8 n/a n/a	Weight: 215 lb FT = 20%						

BRACING-

TOP CHORD

BOT CHORD

WEBS

8-0-0

except end verticals.

1 Row at midpt

15-0-0

7-0-0

LUMBER-

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

2x4 SP No.3 WFBS

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

Max Horz 2=209(LC 12)

Max Uplift 2=-235(LC 12), 8=-138(LC 13) Max Grav 2=1452(LC 2), 8=1451(LC 2)

8-0-0

8-0-0

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-2320/333. 3-4=-2227/374. 4-5=-1568/213. 5-6=-1300/141 **BOT CHORD** 2-12=-400/2004, 11-12=-176/1493, 9-11=-120/1508, 8-9=-46/1068 WFBS

 $3\text{-}12\text{--}360/228,\ 4\text{-}12\text{--}217/739,\ 4\text{-}11\text{--}20/384,\ 5\text{-}9\text{--}508/171,\ 6\text{-}9\text{--}14/947,}$

6-8=-1520/63

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-8-6, Interior(1) 1-8-6 to 13-0-0, Exterior(2R) 13-0-0 to 17-6-5, Interior(1) 17-6-5 to 25-0-0, Exterior(2R) 25-0-0 to 29-6-5, Interior(1) 29-6-5 to 31-10-4 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) 150.0lb AC unit load placed on the bottom chord, 19-0-0 from left end, supported at two points, 4-0-0 apart.
- 5) Provide adequate drainage to prevent water ponding.
- 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, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=235, 8=138.

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:

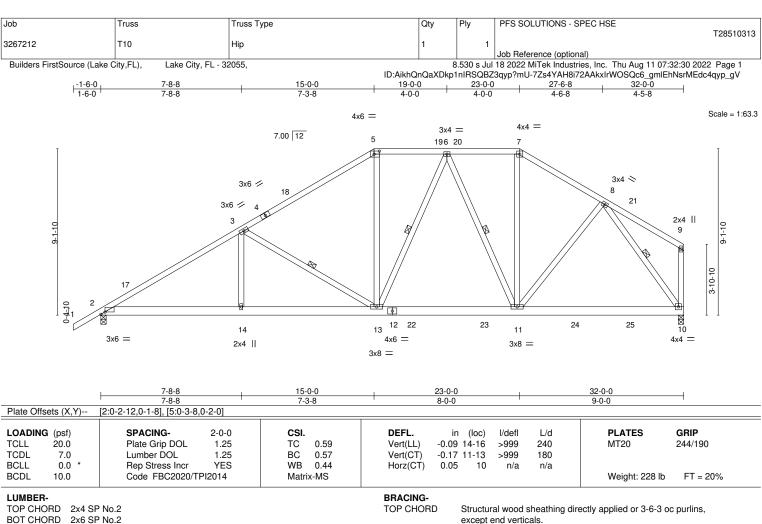


9-0-0

Structural wood sheathing directly applied or 3-1-2 oc purlins,

5-11, 5-9, 6-8

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



BOT CHORD

WEBS

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

3-13, 6-13, 6-11, 8-10

1 Row at midpt

2x6 SP No 2

2x4 SP No 3 WFBS

REACTIONS. (size) 2=0-3-8, 10=0-3-8

Max Horz 2=226(LC 12)

Max Uplift 2=-231(LC 12), 10=-134(LC 13) Max Grav 2=1445(LC 19), 10=1421(LC 2)

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

TOP CHORD 2-3=-2241/304. 3-5=-1621/200. 5-6=-1328/224. 6-7=-1117/161. 7-8=-1343/148 **BOT CHORD**

2-14=-372/1967, 13-14=-372/1967, 11-13=-93/1260, 10-11=-62/850 WFBS

3-14=0/328, 3-13=-764/290, 5-13=0/538, 6-13=-73/274, 6-11=-435/142, 7-11=-23/478,

8-11=-34/463, 8-10=-1435/101

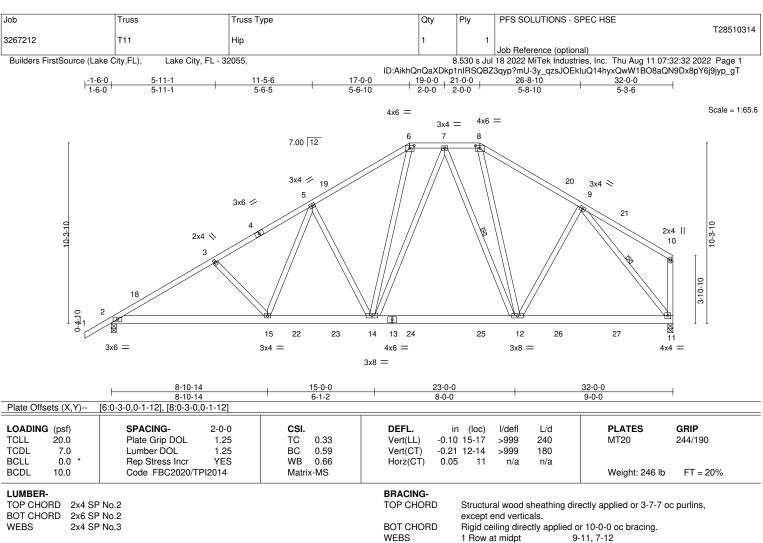
NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-8-6, Interior(1) 1-8-6 to 15-0-0, Exterior(2R) 15-0-0 to 19-6-5, Interior(1) 19-6-5 to 23-0-0, Exterior(2R) 23-0-0 to 27-7-10, Interior(1) 27-7-10 to 31-10-4 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) 150.0lb AC unit load placed on the bottom chord, 19-0-0 from left end, supported at two points, 4-0-0 apart.
- 5) Provide adequate drainage to prevent water ponding.
- 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, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=231, 10=134.

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:





REACTIONS. (size) 2=0-3-8, 11=0-3-8 Max Horz 2=244(LC 12)

Max Uplift 2=-225(LC 12), 11=-129(LC 13)

Max Grav 2=1497(LC 19), 11=1437(LC 2)

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

TOP CHORD 2-3=-2314/311, 3-5=-2150/297, 5-6=-1639/239, 6-7=-1239/246, 7-8=-1013/195,

8-9=-1358/168

 $2\text{-}15\text{=-}414/2094,\ 14\text{-}15\text{=-}247/1700,\ 12\text{-}14\text{=-}75/1136,\ 11\text{-}12\text{=-}63/953}$ BOT CHORD

 $3-15=-294/180,\ 5-15=-127/548,\ 5-14=-637/279,\ 6-14=-25/606,\ 7-14=-119/383,$ WEBS

8-12=-22/470, 9-12=-18/396, 9-11=-1508/97, 7-12=-364/129

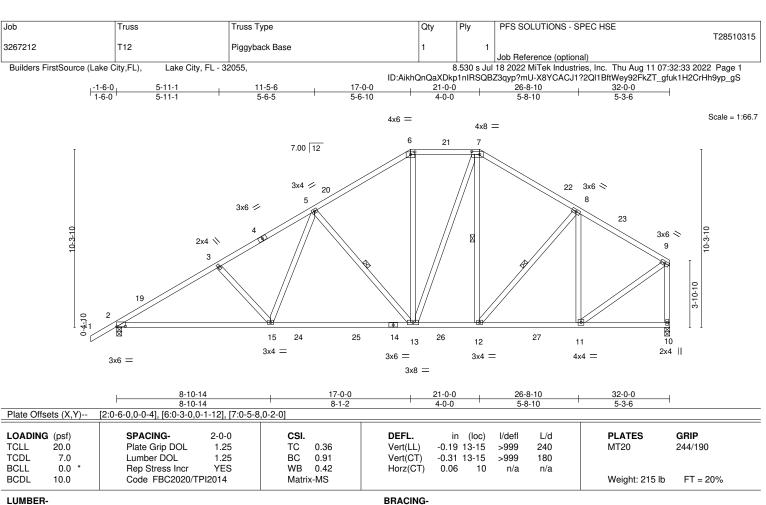
NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-8-6, Interior(1) 1-8-6 to 17-0-0, Exterior(2E) 17-0-0 to 21-0-0, Exterior(2R) 21-0-0 to 25-6-5, Interior(1) 25-6-5 to 31-10-4 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) 150.0lb AC unit load placed on the bottom chord, 19-0-0 from left end, supported at two points, 4-0-0 apart.
- 5) Provide adequate drainage to prevent water ponding.
- 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, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=225, 11=129.

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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TOP CHORD

BOT CHORD

WEBS

LUMBER-

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

2x4 SP No 3 WFBS

REACTIONS.

(size) 2=0-3-8, 10=0-3-8 Max Horz 2=244(LC 12)

Max Uplift 2=-285(LC 12), 10=-218(LC 13) Max Grav 2=1434(LC 19), 10=1326(LC 2)

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

TOP CHORD 2-3=-2182/419, 3-5=-2014/406, 5-6=-1308/313, 6-7=-1076/310, 7-8=-1193/285,

8-9=-1095/200 9-10=-1254/229

BOT CHORD 2-15=-509/1978, 13-15=-354/1557, 12-13=-140/978, 11-12=-131/906 WEBS 3-15=-302/184, 5-15=-93/623, 5-13=-695/261, 6-13=-81/459, 7-13=-127/381,

8-11=-434/130, 9-11=-157/1092

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-8-6, Interior(1) 1-8-6 to 17-0-0, Exterior(2E) 17-0-0 to 21-0-0, Exterior(2R) 21-0-0 to 25-6-5, Interior(1) 25-6-5 to 31-10-4 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, with BCDL = 10.0psf.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=285, 10=218.

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August 12,2022



Chesterfield, MO 63017

Structural wood sheathing directly applied or 3-8-0 oc purlins,

5-13, 7-12, 8-12

Rigid ceiling directly applied or 8-2-13 oc bracing.

except end verticals.

1 Row at midpt

Job	Truss	Truss Type	Qty	Ply	PFS SOLUTIONS - SPEC HSE	
					T28510316	
3267212	T13	Hip Girder	1	1		
					Job Reference (optional)	
Builders FirstSource (Lake C	ity,FL), Lake City, FL - 3	2055,		3.530 s Jul	18 2022 MiTek Industries, Inc. Thu Aug 11 07:32:36 2022 Page 1	_
		ID:Aik	hQnQaXD	kp1nIRSQ	BZ3gyp?mU-xjDLpDMvlzoKufOSBnVsgtL3kBsa5 lkkA4xlUyp gP	

21-4-7 4-8-14

26-1-6

4-8-14

Structural wood sheathing directly applied or 2-8-8 oc purlins,

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

except end verticals.

1 Row at midpt

8-10-14 oc bracing: 17-19,15-17.

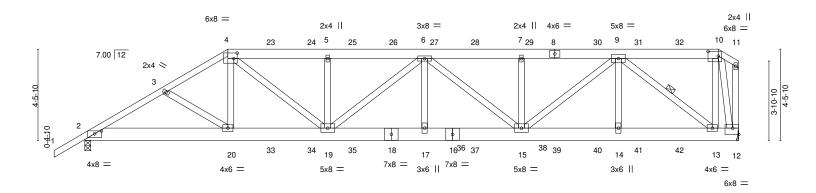
16-7-9

4-8-14

Scale = 1:56.4

32-0-0 1-0-0

31-0-0 4-10-10



	1	7-0-0	11-10-	10 ₁	16-7-9	1	21-4-/	1	26-1-6	1 31-0-0	32-0-Q
		7-0-0	4-10-1	0	4-8-14		4-8-14	1	4-8-14	4-10-10	1-0-0
Plate Offse	ets (X,Y)	[2:0-4-0,0-1-11], [4:0-2-0,	,0-3-4], [10:0-6-	0,0-2-12], [1	2:Edge,0-3-12	.]					
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (lo	c) I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.42	Vert(LL)	-0.19	17 >999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.26	Vert(CT)	-0.36 17-	9 >999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.83	Horz(CT)	0.07	12 n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MS	, ,				Weight: 259 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-TOP CHORD

2x4 SP No 2 *Except*

4-8.8-10: 2x6 SP No.2 BOT CHORD 2x8 SP 2400F 2.0E

2x4 SP No.3 **WEBS**

REACTIONS. (size) 2=0-3-8, 12=Mechanical

Max Horz 2=155(LC 27)

Max Uplift 2=-784(LC 8), 12=-894(LC 5)

Max Grav 2=2389(LC 1), 12=2586(LC 1)

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

TOP CHORD 2-3=-4202/1405, 3-4=-4071/1378, 4-5=-4859/1685, 5-6=-4855/1683, 6-7=-4583/1596,

7-9=-4583/1596, 9-10=-544/195

BOT CHORD 2-20=-1284/3581, 19-20=-1214/3520, 17-19=-1818/5220, 15-17=-1818/5220,

14-15=-1106/3146, 13-14=-1106/3146, 12-13=-166/476 $4-20 = -119/662, \ 4-19 = -677/1762, \ 5-19 = -591/323, \ 6-19 = -510/217, \ 6-17 = -8/41$

6-15=-828/327, 7-15=-483/270, 9-15=-642/1867, 9-14=-34/507, 9-13=-3387/1195,

11-10-10

4-10-10

10-13=-543/1772, 10-12=-2111/741

WEBS

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; 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) 2=784, 12=894,

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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:

August 12,2022

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



16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	PFS SOLUTIONS - SPEC HSE
22224	T10			.	T28510316
3267212	T13	Hip Girder	1	1	
					Job Reference (optional)

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.530 s Jul 18 2022 MiTek Industries, Inc. Thu Aug 11 07:32:36 2022 Page 2 ID:AikhQnQaXDkp1nIRSQBZ3qyp?mU-xjDLpDMvIzoKufOSBnVsgtL3kBsa5_lkkA4xIUyp_gP

NOTES-

- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 128 lb down and 101 lb up at 7-0-0, 125 lb down and 98 lb up at 9-0-12, 125 lb down and 98 lb up at 11-0-12, 125 lb down and 98 lb up at 13-0-12, 125 lb down and 98 lb up at 15-0-12, 125 down and 92 lb up at 19-0-12, 125 lb down and 98 lb up at 21-0-12, 125 lb down and 98 lb up at 23-0-12, 125 lb down and 98 lb up at 25-0-12, 125 lb down and 98 at 27-0-12, and 125 lb down and 98 lb up at 29-0-12, and 132 lb down and 100 lb up at 31-0-0 on top chord, and 336 lb down and 126 lb up at 7-0-0, 86 lb down and 20 lb up at 9-0-12, 86 lb down and 20 lb up at 11-0-12, 86 lb down and 20 lb up at 13-0-12, 86 lb down and 20 lb up at 15-0-12, 86 lb down and 20 lb up at 17-0-12, 86 lb down and 20 lb up at 19-0-12, 86 lb down and 20 lb up at 21-0-12, 86 lb down and 20 lb up at 25-0-12, 27-0-12, and 86 lb down and 20 lb up at 29-0-12, and 91 lb down and 18 lb up at 31-0-12 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: 1-4=-54, 4-10=-54, 10-11=-54, 2-12=-20

Concentrated Loads (lb)

Vert: 4=-109(B) 8=-109(B) 10=-115(B) 18=-64(B) 20=-336(B) 13=-67(B) 23=-109(B) 24=-109(B) 25=-109(B) 26=-109(B) 27=-109(B) 28=-109(B) 20=-109(B) 30=-109(B) 31=-109(B) 32=-109(B) 32=-64(B) 35=-64(B) 35=-64(B

Job Truss Type Qty Ply PFS SOLUTIONS - SPEC HSE T28510317 3267212 T14 qiH Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Jul 18 2022 MiTek Industries, Inc. Thu Aug 11 07:32:37 2022 Page 1 ID:AikhQnQaXDkp1nIRSQBZ3qyp?mU-Pwnj0ZMX2GwBWpzelU05D5uFWb5rqWvtzqpUqxyp_gO 13-10-12 4-10-12 24-1-4 29-0-0 32-0-0

Scale = 1:56.4

3-0-0

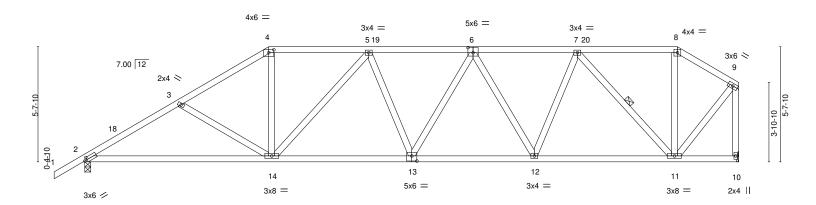
32-0-0

4-10-12

29-0-0

Structural wood sheathing directly applied or 4-0-10 oc purlins,

Rigid ceiling directly applied or 8-4-7 oc bracing.



	0 0 0		- 10	, , ,		LL 0 0			20 0 0		0 <u>L</u> 0 0
	9-0-0	1	7	-0-0		6-0-0		ı	7-0-0		3-0-0
s (X,Y)	2:0-1-8,0-1-8], [4:0-3-0,0-	1-12], [6:0-3	0,0-3-0], [13:0	0-3-0,0-3-0]							
(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (l	loc) I/d	defl L/d		PLATES	GRIP
20.0	Plate Grip DOL	1.25	TC	0.36	Vert(LL)	-0.15 14	-17 >9	999 240		MT20	244/190
7.0	Lumber DOL	1.25	BC	0.77	Vert(CT)	-0.31 14	-17 >9	999 180			
0.0 *	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.07	10	n/a n/a			
10.0	Code FBC2020/TF	PI2014	Matri	x-MS						Weight: 189 lb	FT = 20%
	psf) 20.0 7.0 0.0 *	s (X,Y) [2:0-1-8,0-1-8], [4:0-3-0,0-1] psf) SPACING- Plate Grip DOL Lumber DOL 0.0 * Rep Stress Incr	9-0-0 s (X,Y) [2:0-1-8,0-1-8], [4:0-3-0,0-1-12], [6:0-3-10], [6	9-0-0 7 s (X,Y) [2:0-1-8,0-1-8], [4:0-3-0,0-1-12], [6:0-3-0,0-3-0], [13:0 psf) SPACING- 2-0-0 CSI. 20.0 Plate Grip DOL 1.25 TC 7.0 Lumber DOL 1.25 BC 0.0 * Rep Stress Incr YES WB	9-0-0 7-0-0 s (X,Y) [2:0-1-8,0-1-8], [4:0-3-0,0-1-12], [6:0-3-0,0-3-0], [13:0-3-0,0-3-0] psf) SPACING- 2-0-0 CSI. 20.0 Plate Grip DOL 1.25 TC 0.36 7.0 Lumber DOL 1.25 BC 0.77 0.0 * Rep Stress Incr YES WB 0.49	9-0-0 7-0-0 s (X,Y) [2:0-1-8,0-1-8], [4:0-3-0,0-1-12], [6:0-3-0,0-3-0], [13:0-3-0,0-3-0] psf) SPACING- 2-0-0 CSI. DEFL. 20.0 Plate Grip DOL 1.25 TC 0.36 Vert(LL) 7.0 Lumber DOL 1.25 BC 0.77 Vert(CT) 0.0 * Rep Stress Incr YES WB 0.49 Horz(CT)	9-0-0 7-0-0 6-0-0 s (X,Y) [2:0-1-8,0-1-8], [4:0-3-0,0-1-12], [6:0-3-0,0-3-0], [13:0-3-0,0-3-0] psf) SPACING- 2-0-0 CSI. DEFL. in (20.0 Plate Grip DOL 1.25 TC 0.36 Vert(LL) -0.15 14 7.0 Lumber DOL 1.25 BC 0.77 Vert(CT) -0.31 14 0.0 * Rep Stress Incr YES WB 0.49 Horz(CT) 0.07	9-0-0 7-0-0 6-0-0 s (X,Y) [2:0-1-8,0-1-8], [4:0-3-0,0-1-12], [6:0-3-0,0-3-0], [13:0-3-0,0-3-0] psf) SPACING- 2-0-0 CSI. DEFL. in (loc) 1/2 20.0 Plate Grip DOL 1.25 TC 0.36 Vert(LL) -0.15 14-17 > 1/2 7.0 Lumber DOL 1.25 BC 0.77 Vert(CT) -0.31 14-17 > 1/2 0.0 * Rep Stress Incr YES WB 0.49 Horz(CT) 0.07 10	9-0-0 7-0-0 6-0-0 s (X,Y) [2:0-1-8,0-1-8], [4:0-3-0,0-1-12], [6:0-3-0,0-3-0], [13:0-3-0,0-3-0] psf) SPACING- 2-0-0 CSI. DEFL. in (loc) I/defl L/d 20.0 Plate Grip DOL 1.25 TC 0.36 Vert(LL) -0.15 14-17 >999 240 7.0 Lumber DOL 1.25 BC 0.77 Vert(CT) -0.31 14-17 >999 180 0.0 * Rep Stress Incr YES WB 0.49 Horz(CT) 0.07 10 n/a n/a	9-0-0 7-0-0 6-0-0 7-0-0 s (X,Y) [2:0-1-8,0-1-8], [4:0-3-0,0-1-12], [6:0-3-0,0-3-0], [13:0-3-0,0-3-0] psf) SPACING- 2-0-0 CSI. DEFL. in (loc) I/defl L/d 20.0 Plate Grip DOL 1.25 TC 0.36 Vert(LL) -0.15 14-17 >999 240 7.0 Lumber DOL 1.25 BC 0.77 Vert(CT) -0.31 14-17 >999 180 0.0 * Rep Stress Incr YES WB 0.49 Horz(CT) 0.07 10 n/a n/a	9-0-0 7-0-0 6-0-0 7-0-0 s (X,Y) [2:0-1-8,0-1-8], [4:0-3-0,0-1-12], [6:0-3-0,0-3-0], [13:0-3-0,0-3-0] psf) SPACING- 2-0-0 CSI. DEFL. in (loc) I/defl L/d PLATES 20.0 Plate Grip DOL 1.25 TC 0.36 Vert(LL) -0.15 14-17 >999 240 MT20 7.0 Lumber DOL 1.25 BC 0.77 Vert(CT) -0.31 14-17 >999 180 0.0 * Rep Stress Incr YES WB 0.49 Horz(CT) 0.07 10 n/a n/a

BRACING-

TOP CHORD

BOT CHORD

WEBS

22-0-0

except end verticals.

1 Row at midpt

16-0-0

LUMBER-

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

BOT CHORD

2x4 SP No.3 WFBS

REACTIONS. (size) 2=0-3-8, 10=Mechanical

Max Horz 2=174(LC 12)

Truss

Max Uplift 2=-302(LC 12), 10=-235(LC 13) Max Grav 2=1262(LC 1), 10=1177(LC 1)

9-0-0

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

TOP CHORD 2-3=-1966/470, 3-4=-1737/409, 4-5=-1458/390, 5-6=-1750/420, 6-7=-1501/356,

7-8=-615/163, 8-9=-742/160, 9-10=-1164/236

BOT CHORD 2-14=-496/1668, 13-14=-435/1738, 12-13=-428/1701, 11-12=-328/1307 **WEBS** $3-14=-289/165,\ 4-14=-96/617,\ 5-14=-494/216,\ 6-12=-415/163,\ 7-12=-110/532,$

7-11=-1052/299, 9-11=-204/954

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-8-6, Interior(1) 1-8-6 to 9-0-0, Exterior(2R) 9-0-0 to 13-6-5, Interior(1) 13-6-5 to 29-0-0, Exterior(2E) 29-0-0 to 31-10-4 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) 2=302, 10=235.

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:

August 12,2022

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Job Truss Truss Type Qty Ply PFS SOLUTIONS - SPEC HSE T28510318 3267212 T15 qiH Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Jul 18 2022 MiTek Industries, Inc. Thu Aug 11 07:32:38 2022 Page 1 ID:AikhQnQaXDkp1nIRSQBZ3qyp?mU-u6L5DvN9pa228yYqJCXKIIRJD?ROZz21CUZ2MNyp_gN 11-0-0 27-0-0 32-0-0 5-0-0 5-0-9 8-0-0

Scale = 1:56.1

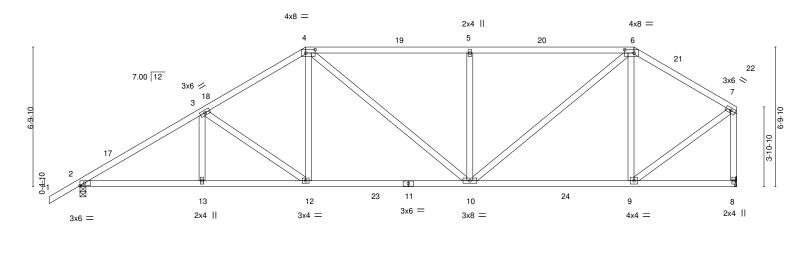


Plate Offsets (X,Y) [4:0-5-8,0-2-0], [6:0-5-8,0-2-0]										
LOADIN	G (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC 0.74	Vert(LL)	-0.16 10-12	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC 0.75	Vert(CT)	-0.29 10-12	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.49	Horz(CT)	0.06 8	n/a	n/a		
BCDL	10.0	Code FBC2020/TF	PI2014	Matrix-MS					Weight: 186 lb	FT = 20%

BRACING-TOP CHORD

BOT CHORD

8-0-0

27-0-0

8-0-0

except end verticals.

Structural wood sheathing directly applied or 3-6-5 oc purlins,

Rigid ceiling directly applied or 8-6-4 oc bracing.

LUMBER-

REACTIONS.

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

BOT CHORD 2x4 SP No.3 WFBS

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

Max Horz 2=192(LC 12)

Max Uplift 2=-299(LC 12), 8=-232(LC 13) Max Grav 2=1365(LC 2), 8=1314(LC 2)

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

TOP CHORD 2-3=-2164/438, 3-4=-1778/392, 4-5=-1625/346, 5-6=-1625/346, 6-7=-1079/207,

7-8=-1256/241

BOT CHORD 2-13=-472/1820, 12-13=-472/1820, 10-12=-322/1494, 9-10=-137/881

3-12=-497/183, 4-12=-62/555, 4-10=-175/289, 5-10=-501/245, 6-10=-251/982, **WEBS**

6-9=-425/147, 7-9=-180/1084

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-8-6, Interior(1) 1-8-6 to 11-0-0, Exterior(2R) 11-0-0 to 15-6-5, Interior(1) 15-6-5 to 27-0-0, Exterior(2R) 27-0-0 to 31-6-5, Interior(1) 31-6-5 to 31-10-4 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, 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) 2=299, 8=232.

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32-0-0

5-0-0

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



Job Truss Truss Type Qty Ply PFS SOLUTIONS - SPEC HSE T28510319 T16 3267212 qiH Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Jul 18 2022 MiTek Industries, Inc. Thu Aug 11 07:32:40 2022 Page 1 ID:AikhQnQaXDkp1nIRSQBZ3qyp?mU-qUTsebPQLBImNGiDQcaoqjWigo7S1o4Jfn28RFyp_gL

25-0-0

6-0-0

19-0-0

6-0-0

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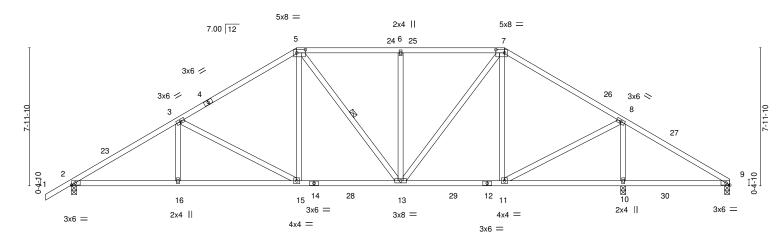


Plate Offse	ets (X,Y)	<u>[5:0-6-0,0-2-4], [7:0-6-0,0</u>)-2-4], [9:0-2-8 <u>,</u>	Edge]								
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.55	Vert(LL)	0.08 10-19	>943	240	MT20	244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.64	Vert(CT)	-0.21 15-16	>999	180			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.78	Horz(CT)	0.05 10	n/a	n/a			
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MS					Weight: 215 lb	FT = 20%	

19-0-0

6-0-0

LUMBER-**BOT CHORD**

WFBS

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

2x4 SP No.3

BRACING-

6-0-0

TOP CHORD **BOT CHORD** WFBS

Structural wood sheathing directly applied or 3-10-10 oc purlins. Rigid ceiling directly applied or 6-0-0 oc bracing.

1 Row at midpt

31-10-4

6-10-4

31-10-4

6-10-4

REACTIONS.

(size) 9=0-3-8, 2=0-3-8, 10=0-3-8

Max Horz 2=180(LC 9)

Max Uplift 9=-75(LC 8), 2=-291(LC 12), 10=-304(LC 13) Max Grav 9=96(LC 24), 2=1321(LC 2), 10=1796(LC 2)

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

TOP CHORD 2-3=-2100/428, 3-5=-1557/348, 5-6=-1251/306, 6-7=-1251/306, 7-8=-1052/246,

13-0-0

6-10-4

8-9=-72/375

 $2 - 16 = -414/1824,\ 15 - 16 = -414/1824,\ 13 - 15 = -231/1282,\ 11 - 13 = -112/827,\ 10 - 11 = -273/85,$ BOT CHORD

9-10=-273/85

WEBS 3-16=0/271, 3-15=-662/238, 5-15=-70/573, 6-13=-365/184, 7-13=-194/724,

7-11=-368/126, 8-11=-173/1207, 8-10=-1525/329

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 2-3-10, Interior(1) 2-3-10 to 13-0-0, Exterior(2R) 13-0-0 to 18-4-8, Interior(1) 18-4-8 to 25-0-0, Exterior(2R) 25-0-0 to 30-4-8, Interior(1) 30-4-8 to 38-0-0 zone; porch 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9 except (jt=lb) 2=291, 10=304.

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38-0-0

6-1-12

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



Job Truss Truss Type Qty Ply PFS SOLUTIONS - SPEC HSE T28510320 3267212 T17 qiH Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Jul 18 2022 MiTek Industries, Inc. Thu Aug 11 07:32:42 2022 Page 1 ID:AikhQnQaXDkp1nIRSQBZ3qyp?mU-mtbc3HQgtpYTdarcY1cGw8b0scmyVj9c75XFV8yp_gJ 19-0-0 23-0-0 38-0-0 7-8-8

4-0-0

4-0-0

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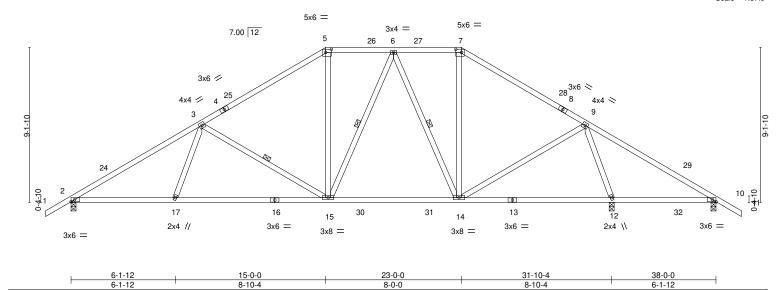


Plate Offsets (X,Y)	[5:0-4-0,0-2-4], [7:0-4-0,0-2-4], [10:0-2-8				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc)	I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.70	Vert(LL) 0.08 12-23	>950 240	MT20 244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.83	Vert(CT) -0.34 15-17	>999 180	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.74	Horz(CT) 0.06 12	n/a n/a	
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS			Weight: 218 lb FT = 20%
		1			

LUMBER-

WFBS

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

2x4 SP No.3

BRACING-

TOP CHORD **BOT CHORD** WERS

Structural wood sheathing directly applied or 3-8-4 oc purlins.

Rigid ceiling directly applied or 6-0-0 oc bracing. 1 Row at midpt 3-15, 6-15, 6-14

REACTIONS.

(size) 2=0-3-8, 12=0-3-8, 10=0-3-8

Max Horz 2=-213(LC 10)

Max Uplift 2=-289(LC 12), 12=-267(LC 13), 10=-112(LC 8) Max Grav 2=1330(LC 19), 12=1823(LC 2), 10=171(LC 24)

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

TOP CHORD 2-3=-2063/401, 3-5=-1390/324, 5-6=-1127/331, 6-7=-870/285, 7-9=-1097/271,

9-10=-71/523

BOT CHORD 2-17=-376/1839, 15-17=-387/1733, 14-15=-144/1033, 10-12=-359/104

 $3-17=0/350,\ 3-15=-692/282,\ 5-15=-68/419,\ 6-15=-92/342,\ 6-14=-470/164,\ 7-14=-55/322,\ 5-15=-68/419,\ 6-15=-92/342,\ 6-14=-470/164,\ 7-14=-55/322,\ 7-15=-55/322,\ 7-15=-55/322,\ 7-15=-55/322,\ 7-1$ WEBS

9-14=-118/815, 9-12=-1590/310

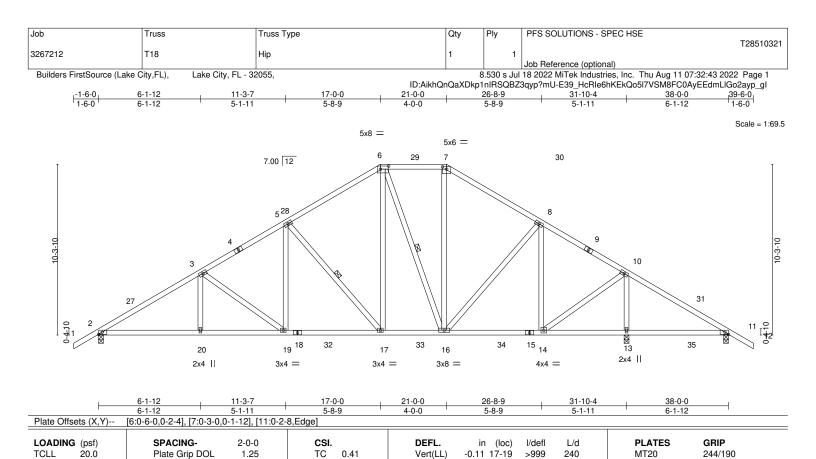
NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 2-3-10, Interior(1) 2-3-10 to 15-0-0, Exterior(2R) 15-0-0 to 20-4-8, Interior(1) 20-4-8 to 23-0-0, Exterior(2R) 23-0-0 to 28-4-8, Interior(1) 28-4-8 to 39-6-0 zone; porch 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=289, 12=267, 10=112.

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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:





Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

WERS

-0.20 17-19

13

1 Row at midpt

0.06

>999

n/a

180

n/a

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

Structural wood sheathing directly applied or 3-9-0 oc purlins.

5-17 6-16

Weight: 243 lb

FT = 20%

LUMBER-

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

REACTIONS. (size) 2=0-3-8, 13=0-3-8, 11=0-3-8

Max Horz 2=-238(LC 10)

Max Uplift 2=-282(LC 12), 13=-280(LC 13), 11=-111(LC 8) Max Grav 2=1380(LC 19), 13=1815(LC 2), 11=203(LC 24)

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

TOP CHORD 2-3=-2127/401, 3-5=-1695/361, 5-6=-1212/305, 6-7=-882/281, 7-8=-1086/276,

8-10=-901/231, 10-11=-73/457

BOT CHORD 2-20=-407/1943, 19-20=-407/1943, 17-19=-264/1543, 16-17=-101/1064, 14-16=-32/724, 13-14=-308/102, 11-13=-308/102

1.25

YES

вс

WB

Matrix-MS

0.59

0.47

Lumber DOL

Rep Stress Incr

Code FBC2020/TPI2014

WEBS 3-19=-492/176, 5-19=-65/512, 5-17=-741/250, 6-17=-159/747, 6-16=-405/136, $7\text{-}16\text{=-}80/351, \, 8\text{-}16\text{=-}101/294, \, 8\text{-}14\text{=-}534/133, \, 10\text{-}14\text{=-}165/1266, \, 10\text{-}13\text{=-}1580/294}$

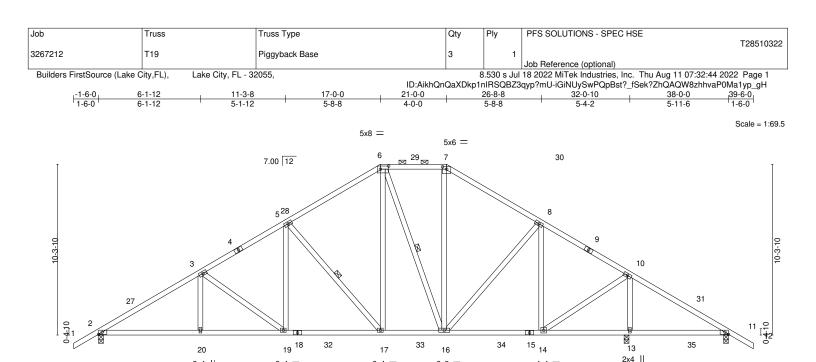
1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 2-3-10, Interior(1) 2-3-10 to 17-0-0, Exterior(2E) 17-0-0 to 21-0-0, Exterior(2R) 21-0-0 to 26-4-8, Interior(1) 26-4-8 to 39-6-0 zone; porch 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) All plates are 3x6 MT20 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, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=282, 13=280, 11=111.

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1	6-1-12	11-3-8	17-0-0	21-0-0	26-8-8	31-10-4	38-0-0	1
	6-1-12	5-1-12	5-8-8	4-0-0	5-8-8	5-1-12	6-1-12	
Plate Offsets (X,Y)	[6:0-6-0,0-2-4], [7:	:0-3-0,0-1-12], [11:0-2-	8,Edge]					

3x4 =

LOADING (psf) TCLL 20.0	SPACING- 2-0-0 Plate Grip DOL 1.25	CSI. TC 0.39	DEFL. in (loc) I/defl L/d Vert(LL) -0.11 17-19 >999 240	PLATES GRIP MT20 244/190
TCDL 7.0 BCLL 0.0 *	Lumber DOL 1.25 Rep Stress Incr YES	BC 0.60 WB 0.48	Vert(CT) -0.20 17-19 >999 180 Horz(CT) 0.06 13 n/a n/a	141120
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS	11012(01) 0.00 10 11/4 11/4	Weight: 243 lb FT = 20%

LUMBER-

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

BOT CHORD 2x4 SP No 3 WFBS

BRACING-

3x8 =

TOP CHORD Structural wood sheathing directly applied or 3-8-13 oc purlins,

except

2-0-0 oc purlins (6-0-0 max.): 6-7.

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

4x4 =

WEBS 1 Row at midpt 5-17, 6-16

REACTIONS. (size) 2=0-3-8, 13=0-3-8, 11=0-3-8

Max Horz 2=-238(LC 10)

Max Uplift 2=-283(LC 12), 13=-283(LC 13), 11=-108(LC 8) Max Grav 2=1389(LC 19), 13=1821(LC 2), 11=189(LC 24)

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

2x4 ||

3x4 =

TOP CHORD 2-3=-2144/404, 3-5=-1711/364, 5-6=-1229/307, 6-7=-900/283, 7-8=-1106/279,

8-10=-942/233, 10-11=-75/465

BOT CHORD 2-20=-409/1958, 19-20=-409/1958, 17-19=-266/1557, 16-17=-103/1079, 14-16=-38/760,

13-14=-317/102, 11-13=-317/102

WEBS $3-19=-492/176,\ 5-19=-65/512,\ 5-17=-740/250,\ 6-17=-159/748,\ 6-16=-396/135,$ 7-16=-83/363, 8-16=-101/271, 8-14=-514/131, 10-14=-168/1292, 10-13=-1589/299

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 2-3-10, Interior(1) 2-3-10 to 17-0-0, Exterior(2E) 17-0-0 to 21-0-0, Exterior(2R) 21-0-0 to 26-4-8, Interior(1) 26-4-8 to 39-6-0 zone; porch 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) All plates are 3x6 MT20 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, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 2=283, 13=283, 11=108,
- 9) 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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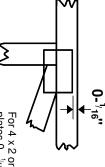


Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

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

PLATE SIZE

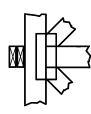
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

LATERAL BRACING LOCATION



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

BEARING



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

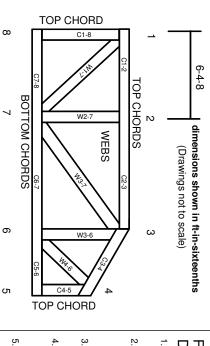
Industry Standards: National Design Specification for Metal

ANSI/TPI1:

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

DSB-89: BCSI:

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

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

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

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

General Safety Notes

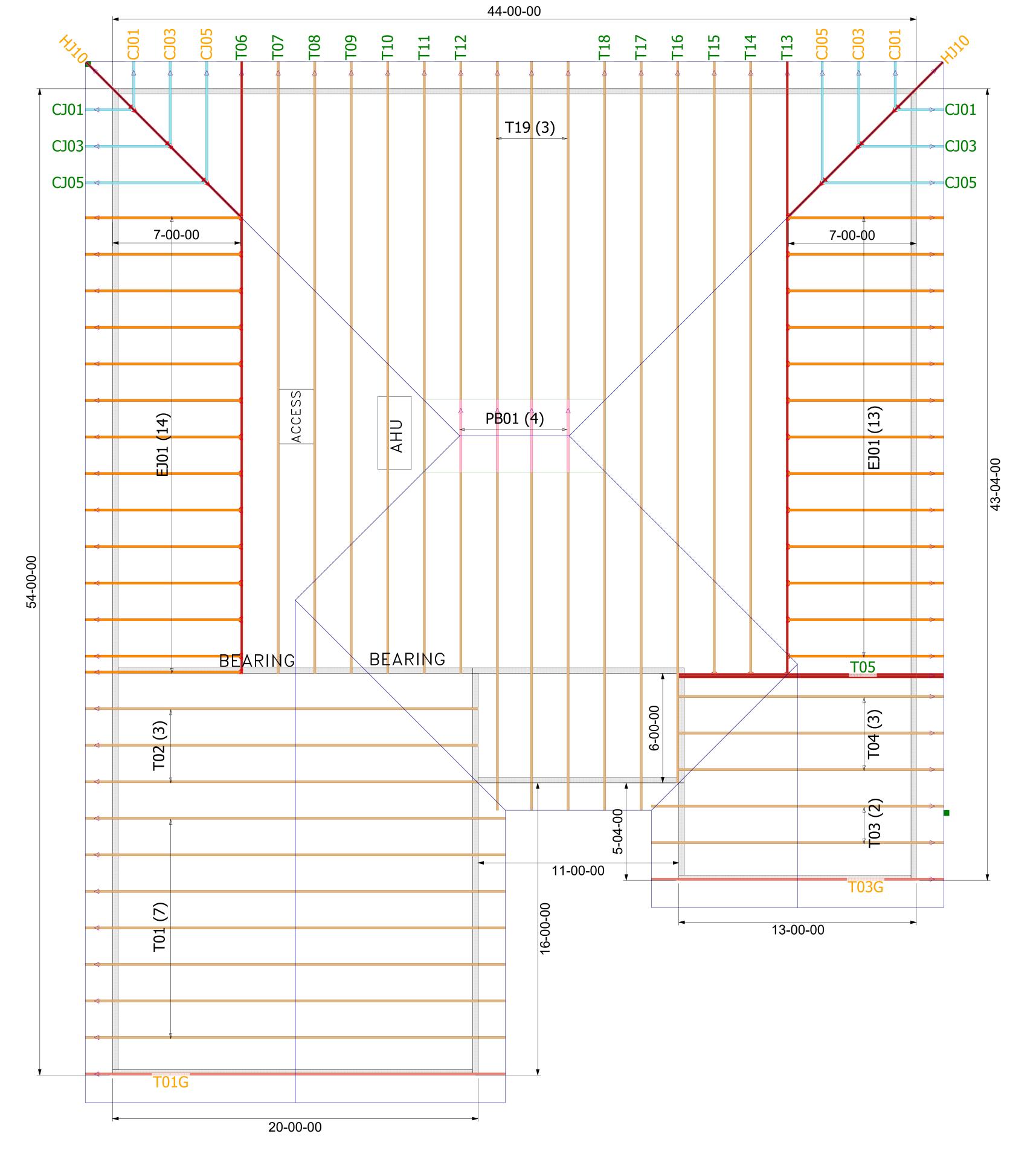
Damage or Personal Injury Failure to Follow Could Cause Property

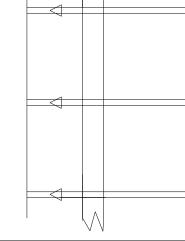
- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- 'n Truss bracing must be designed by an engineer. For bracing should be considered may require bracing, or alternative Tor I wide truss spacing, individual lateral braces themselves
- Never exceed the design loading shown and never stack materials on inadequately braced trusses
- Provide copies of this truss design to the building all other interested parties. designer, erection supervisor, property owner and
- Cut members to bear tightly against each other.
- joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1. Place plates on each face of truss at each
- 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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- 9 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 camber for dead load deflection responsibility of truss fabricator. General practice is to
- 11. 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
- 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
- approval of an engineer. Do not cut or alter truss member or plate without prior
- 17. Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable project engineer before use. environmental, health or performance risks. Consult with
- Review all portions of this design (front, back, words is not sufficient. and pictures) before use. Reviewing pictures alone
- 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.

7/12 PITCH — 18" 0/H





Notes:



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MITEK PLATE APPROVAL #'S 2197.2-2197.4, BOISE EWP PRODUCT #'S LVL FL1644-R2, BCI JOISTS FL1392-R2