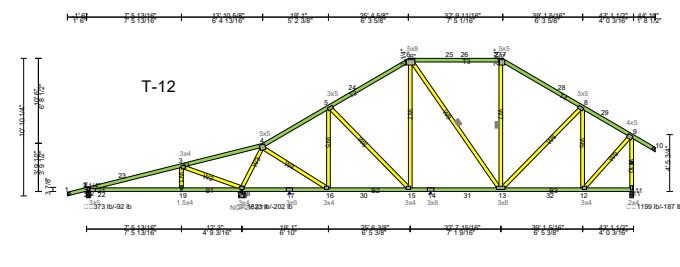
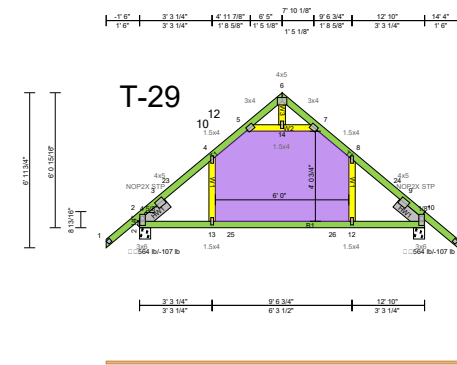
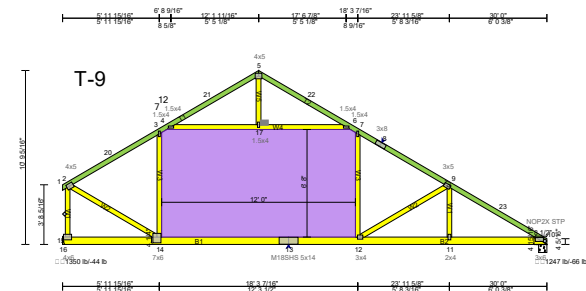


Wall Hatch Legend	
	9' 0" BEARING HEIGHT
	10' 0" BEARING HEIGHT
	10' 0" CEILING AREA
	12" STEP TRAY CEILING TOP AT 10' 0"
	22-1/2" X 28" ATTIC ACCESS



Job Name:
RENDEK RESIDENCE
Customer
ROBINSON RENOVATION& CUSTOM HOMES INC.
Site Address:
SW MAPELTON STREET
City, ST, ZIP
FORT WHITE, FL 32038

Sales Rep:	Paul Arnold	Job #:	20-442-A1
Designer:	DesignerDavid Senteno	Scale:	N.T.S.
Job Location:	Order Folder	Date:	9/16/2020
WIND LOADING	130.0 mph	Lot:	Lot
DURATION FACTOR	Roof trs load duration default	Sub:	
TC LL	Top Chord Live Load psf	Floor Area:	0 sq ft
TC DL	Top Chord Dead Load psf	Roof Area:	3793.58 sq ft
BC DL	Bottom Chord Dead Load psf		



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

RE: 20-442-A1 - RENDEK RESIDENCE

MiTek USA, Inc.

6904 Parke East Blvd.

Tampa, FL 33610-4115

Site Information:

Customer Info: ROBINSON RENOVATION& CUSTOM HOMES INC. Project Name: SW MAPELTON STREET Model: -

Lot/Block: -

Subdivision: -

Address: SW MAPELTON STREET, -

City: FORT WHITE

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: FBC2017/TPI2014

Design Program: MiTek 20/20 8.4

Wind Code: ASCE 7-10

Wind Speed: 130 mph

Roof Load: 37.0 psf

Floor Load: N/A psf

This package includes 49 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	T21322205	C-1	9/17/20	15	T21322219	T-5	9/17/20
2	T21322206	C-2	9/17/20	16	T21322220	T-6	9/17/20
3	T21322207	C-3	9/17/20	17	T21322221	T-7	9/17/20
4	T21322208	CJ2	9/17/20	18	T21322222	T-8	9/17/20
5	T21322209	CJ4	9/17/20	19	T21322223	T-9	9/17/20
6	T21322210	FG-1	9/17/20	20	T21322224	T-10	9/17/20
7	T21322211	HJ-1	9/17/20	21	T21322225	T-11	9/17/20
8	T21322212	M-1	9/17/20	22	T21322226	T-12	9/17/20
9	T21322213	M-2	9/17/20	23	T21322227	T-13	9/17/20
10	T21322214	M-3	9/17/20	24	T21322228	T-14	9/17/20
11	T21322215	T-1	9/17/20	25	T21322229	T-15	9/17/20
12	T21322216	T-2	9/17/20	26	T21322230	T-16	9/17/20
13	T21322217	T-3	9/17/20	27	T21322231	T-17	9/17/20
14	T21322218	T-4	9/17/20	28	T21322232	T-18	9/17/20



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

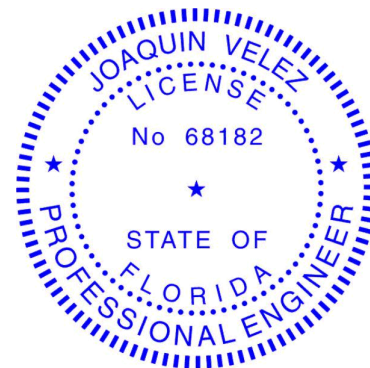
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies

The truss drawing(s) referenced above have been prepared by
MiTek USA, Inc. under my direct supervision based on the parameters
provided by Arnold Truss Mfg. LLC.

Truss Design Engineer's Name: Velez, Joaquin

My license renewal date for the state of Florida is February 28, 2021.

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.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

September 17,2020

Velez, Joaquin

1 of 2



RE: 20-442-A1 - RENDEK RESIDENCE

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

Site Information:

Customer Info: ROBINSON RENOVATION& CUSTOM HOMES INC. Project Name: SW MAPELTON STREET Model:
Lot/Block: - Subdivision: -
Address: SW MAPELTON STREET, -
City: FORT WHITE State: FL

No.	Seal#	Truss Name	Date
29	T21322233	T-19	9/17/20
30	T21322234	T-20	9/17/20
31	T21322235	T-21	9/17/20
32	T21322236	T-22	9/17/20
33	T21322237	T-23	9/17/20
34	T21322238	T-24	9/17/20
35	T21322239	T-25	9/17/20
36	T21322240	T-26	9/17/20
37	T21322241	T-27	9/17/20
38	T21322242	T-28	9/17/20
39	T21322243	T-29	9/17/20
40	T21322244	T-30	9/17/20
41	T21322245	T-31	9/17/20
42	T21322246	V1	9/17/20
43	T21322247	V2	9/17/20
44	T21322248	V3	9/17/20
45	T21322249	V4	9/17/20
46	T21322250	V5	9/17/20
47	T21322251	V6	9/17/20
48	T21322252	V7	9/17/20
49	T21322253	V8	9/17/20

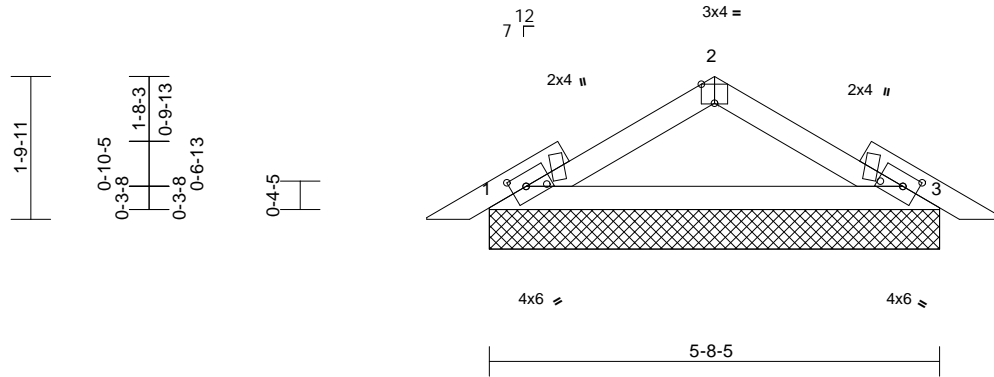
Job	Truss	Truss Type	Qty	Ply	RENDEK RESIDENCE	T21322205
20-442-A1	C-1	Piggyback	2	1	Job Reference (optional)	

Arnold Truss Mfg. LLC, Ocala, FL - 34475,

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Page: 1

-0-9-8	0-10-6	2-10-3	4-9-15	5-8-5	6-5-13
0-9-8	0-10-6	1-11-13	1-11-13	0-10-6	0-9-8



Scale = 1:29.1

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.20	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	7.0	Lumber DOL	1.25	BC	0.16	Vert(TL)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.01	3	n/a	n/a	
BCDL	10.0	Code	FBC2017/TPI2014	Matrix-AS							Weight: 22 lb FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS (lb/size) 1=211/5-8-5, 3=211/5-8-5
Max Horiz 1=30 (LC 10)
Max Uplift 1=24 (LC 12), 3=24 (LC 12)

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

TOP CHORD 1-2=-354/103
BOT CHORD 1-3=-79/298

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl.,
GCpi=0.18; MWFRS (directional) and C-C Exterior (2)
zone; cantilever left and right exposed; end vertical left
and right exposed; C-C for members and forces &
MWFRS for reactions shown; Lumber DOL=1.60 plate
grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 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
3-06-00 tall by 2-00-00 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 24 lb uplift at joint
1 and 24 lb uplift at joint 3.
- 7) This truss design requires that a minimum of 7/16"
structural wood sheathing be applied directly to the top
chord and 1/2" gypsum sheetrock be applied directly to
the bottom chord.

- 8) See Standard Industry Piggyback Truss Connection
Detail for Connection to base truss as applicable, or
consult qualified building designer.

LOAD CASE(S) Standard

This item has been electronically signed and sealed by Velez, Joaquin, 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.

Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

September 17,2020

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



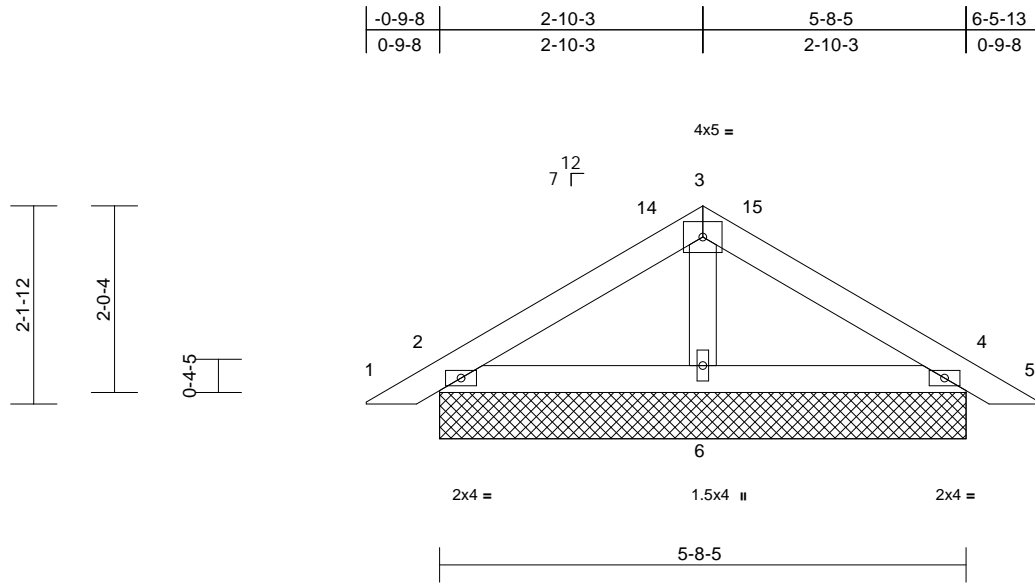
6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	RENDEK RESIDENCE	T21322206
20-442-A1	C-2	Piggyback	12	1	Job Reference (optional)	

Arnold Truss Mfg. LLC, Ocala, FL - 34475,

Run: 8.42 S Aug 25 2020 Print: 8.420 S Aug 25 2020 MiTek Industries, Inc. Wed Sep 16 14:10:07
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Page: 1



Scale = 1:24.9

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.07	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.09	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.01	0.00	11	n/a	n/a		
BCDL	10.0	Code	FBC2017/TPI2014	Matrix-AS						Weight: 23 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS

(size) 2=5-8-5, 4=5-8-5, 6=5-8-5,
7=5-8-5, 11=5-8-5
Max Horiz 2=-39 (LC 10), 7=-39 (LC 10)
Max Uplift 2=-43 (LC 12), 4=-43 (LC 12),
7=-43 (LC 12), 11=-43 (LC 12)
Max Grav 2=141 (LC 1), 4=141 (LC 1), 6=195
(LC 1), 7=141 (LC 1), 11=141 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/14, 2-14=-69/45, 3-14=-46/49,
3-15=-47/50, 4-15=-69/47, 4-5=0/14
BOT CHORD 2-6=-3/37, 4-6=-1/36
WEBS 3-6=-87/26

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl.,
GCpi=0.18; MWFRS (directional) and C-C Exterior (2)
0-4-2 to 3-4-2, Interior (1) 3-4-2 to 3-8-9, Exterior (2)
3-8-9 to 6-6-11, Interior (1) 6-6-11 to 7-0-15 zone;
cantilever left and right exposed; end vertical left and
right exposed; C-C for members and forces & MWFRS
for reactions shown; Lumber DOL=1.60 plate grip
DOL=1.60
- 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) Gable requires continuous bottom chord bearing.

- 5) Gable studs spaced at 4-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 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 43 lb uplift at joint 2, 43 lb uplift at joint 4, 43 lb uplift at joint 2 and 43 lb uplift at joint 4.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

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Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

September 17,2020

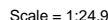
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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



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Tampa, FL 33610

Arnold Truss Mfg. LLC, Ocala, FL - 34475, Run: 8.41 E Jul 24 2020 Print: 8.410 E Jul 24 2020 MiTek Industries, Inc. Thu Sep 17 08:17:38 Page: 1
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LUMBER	
TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2
BRACING	
TOP CHORD	Structural wood sheathing directly applied, except end verticals.
BOT CHORD	Rigid ceiling directly applied.
REACTIONS	All bearings 5-2-4.
(lb) - Max Horiz	2=44 (LC 11), 7=44 (LC 11)
Max Uplift	All uplift 100 (lb) or less at joint(s) 2, 5, 7
Max Grav	All reactions 250 (lb) or less at joint (s) 2, 5, 6, 7
FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2, 2.
- 8) n/a
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl.,
GCp=0.18; MWFRS (directional) and C-C Exterior (2)
0-4-2 to 3-4-2, Interior (1) 3-4-2 to 3-8-9, Exterior (2)
3-8-9 to 5-10-14 zone; cantilever left and right exposed ;
end vertical left and right exposed; C-C for members and
forces & MWFRS for reactions shown; Lumber
DOL=1.60 plate grip DOL=1.60
- 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) Gable studs spaced at 4-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.

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Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

September 17, 2020



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 BCS1 Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



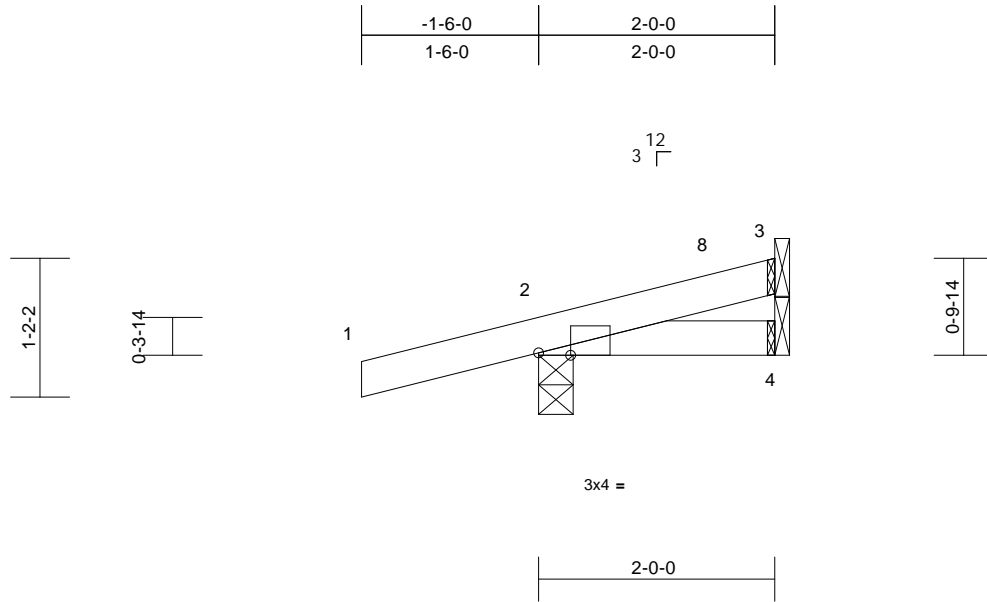
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	RENDEK RESIDENCE	T21322208
20-442-A1	CJ2	Corner Jack	4	1	Job Reference (optional)	

Arnold Truss Mfg. LLC, Ocala, FL - 34475,

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Page: 1



Scale = 1:19.5

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.12	Vert(LL)	0.00	7	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.02	Vert(CT)	0.00	7	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	FBC2017/TPI2014	Matrix-MP		Wind(LL)	0.00	7	>999	240	Weight: 8 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or
2-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc
bracing.

REACTIONS (size) 2=0-3-8, 3= Mechanical, 4=
Mechanical
Max Horiz 2=33 (LC 8)
Max Uplift 2=-89 (LC 8), 3=-3 (LC 9)
Max Grav 2=185 (LC 1), 3=28 (LC 1), 4=27
(LC 3)

FORCES (lb) - Maximum Compression/Maximum
Tension

TOP CHORD 1-2=0/20, 2-8=-48/18, 3-8=-5/7
BOT CHORD 2-4=-18/42

NOTES

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl.,
GCpi=0.18; MWFRS (directional) and C-C Exterior (2)
-1-6-0 to 1-6-0, Interior (1) 1-6-0 to 1-11-14 zone;
cantilever left and right exposed ; end vertical left and
right exposed;C-C for members and forces & MWFRS
for reactions shown; Lumber DOL=1.60 plate grip
DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 89 lb uplift at joint
2 and 3 lb uplift at joint 3.

This item has been
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signed and sealed and the
signature must be verified
on any electronic copies.
Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

September 17,2020

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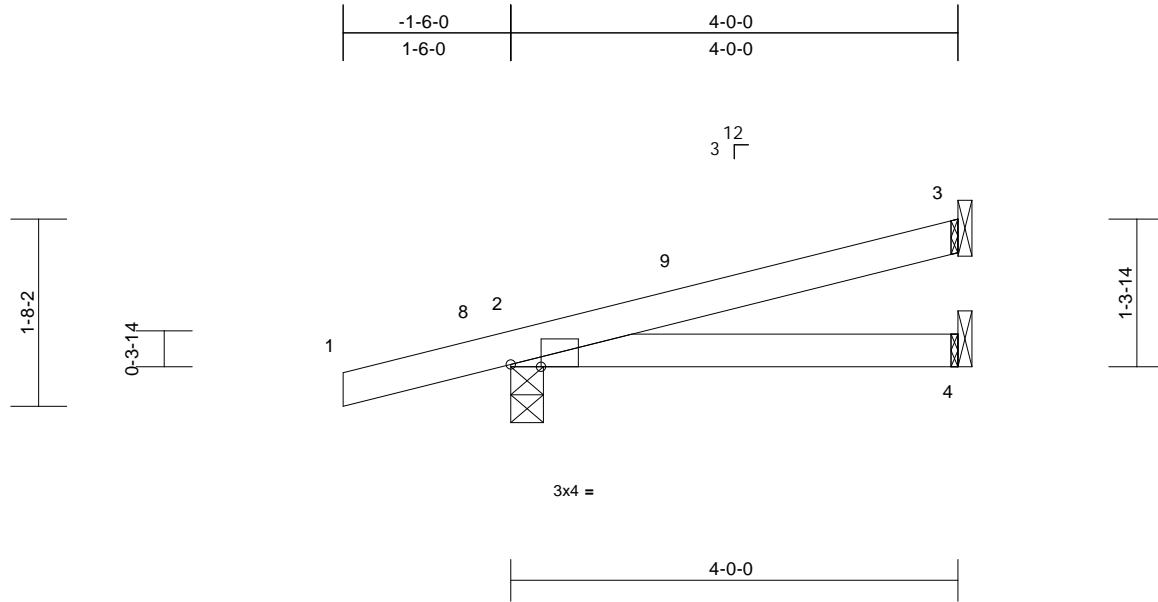
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	RENDEK RESIDENCE	T21322209
20-442-A1	CJ4	Corner Jack	4	1	Job Reference (optional)	

Arnold Truss Mfg. LLC, Ocala, FL - 34475,

Run: 8.42 S Aug 25 2020 Print: 8.420 S Aug 25 2020 MiTek Industries, Inc. Wed Sep 16 14:10:08
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Page: 1



Scale = 1:20.6

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.14	Vert(LL)	-0.01	4-7	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.12	Vert(CT)	-0.02	4-7	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	FBC2017/TPI2014	Matrix-AS		Wind(LL)	0.01	4-7	>999	240	Weight: 14 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied.

BOT CHORD Rigid ceiling directly applied.

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

Max Horiz 2=49 (LC 8)

Max Uplift 2=87 (LC 8), 3=28 (LC 8)

Max Grav 2=242 (LC 1), 3=84 (LC 1), 4=65 (LC 3)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-8=0/16, 2-8=0/20, 2-9=-77/12, 3-9=-21/17

BOT CHORD 2-4=-35/81

NOTES

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl.,
GCpi=0.18; MWFRS (directional) and C-C Exterior (2)
-1-6-0 to 1-6-0, Interior (1) 1-6-0 to 3-11-4 zone;
cantilever left and right exposed; end vertical left and
right exposed; C-C for members and forces & MWFRS
for reactions shown; Lumber DOL=1.60 plate grip
DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 28 lb uplift at joint
3 and 87 lb uplift at joint 2.

- 6) This truss design requires that a minimum of 7/16"
structural wood sheathing be applied directly to the top
chord and 1/2" gypsum sheetrock be applied directly to
the bottom chord.

LOAD CASE(S) Standard

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Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

September 17,2020

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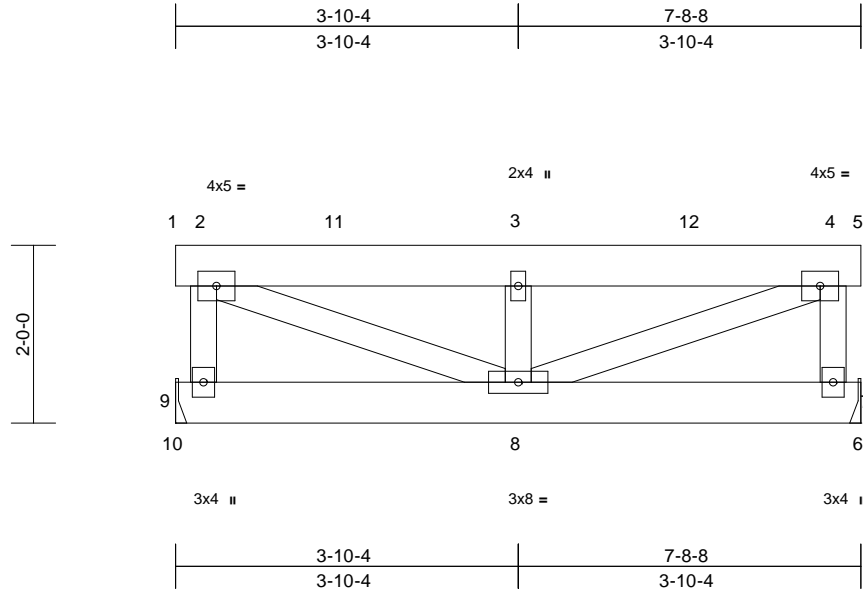
Job	Truss	Truss Type	Qty	Ply	RENDEK RESIDENCE	T21322210
20-442-A1	FG-1	Flat Girder	1	2	Job Reference (optional)	

Arnold Truss Mfg. LLC, Ocala, FL - 34475,

Run: 8.42 S Aug 25 2020 Print: 8.420 S Aug 25 2020 MiTek Industries, Inc. Wed Sep 16 14:10:08

Page: 1

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Scale = 1:25.9

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.09	Vert(LL)	-0.01	8	>999	360	MT20
TCDL	7.0	Lumber DOL	1.25	BC	0.03	Vert(CT)	-0.02	8	>999	240	244/190
BCLL	0.0*	Rep Stress Incr	NO	WB	0.18	Horz(CT)	0.00	7	n/a	n/a	
BCDL	10.0	Code	FBC2017/TPI2014	Matrix-MP		Wind(LL)	0.01	8	>999	240	Weight: 102 lb FT = 20%

LUMBER

TOP CHORD 2x6 SP M 26
BOT CHORD 2x6 SP M 26
WEBS 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 7= Mechanical, 9= Mechanical
Max Horiz 9=50 (LC 5)
Max Uplift 7=-216 (LC 5), 9=-218 (LC 4)
Max Grav 7=1169 (LC 13), 9=1184 (LC 14)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-9=-1086/227, 1-2=0/0, 2-11=-1604/274, 3-11=-1604/274, 3-12=-1604/274, 4-12=-1604/274, 4-5=0/0, 4-7=-1071/225
BOT CHORD 9-10=0/0, 8-9=-44/39, 7-8=-19/18, 6-7=0/0
WEBS 2-8=-312/1754, 3-8=-1434/313, 4-8=-312/1754

NOTES

- 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, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 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.

- Wind: ASCE 7-10; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl.,
GCpi=0.18; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed;
Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 218 lb uplift at joint 9 and 216 lb uplift at joint 7.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 616 lb down and 113 lb up at 1-9-12, and 616 lb down and 113 lb up at 3-9-12, and 616 lb down and 113 lb up at 5-9-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-2=-54, 2-4=-54, 4-5=-54, 6-10=-20
Concentrated Loads (lb)
Vert: 3=-532, 11=-532, 12=-532

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6904 Parke East Blvd. Tampa FL 33610
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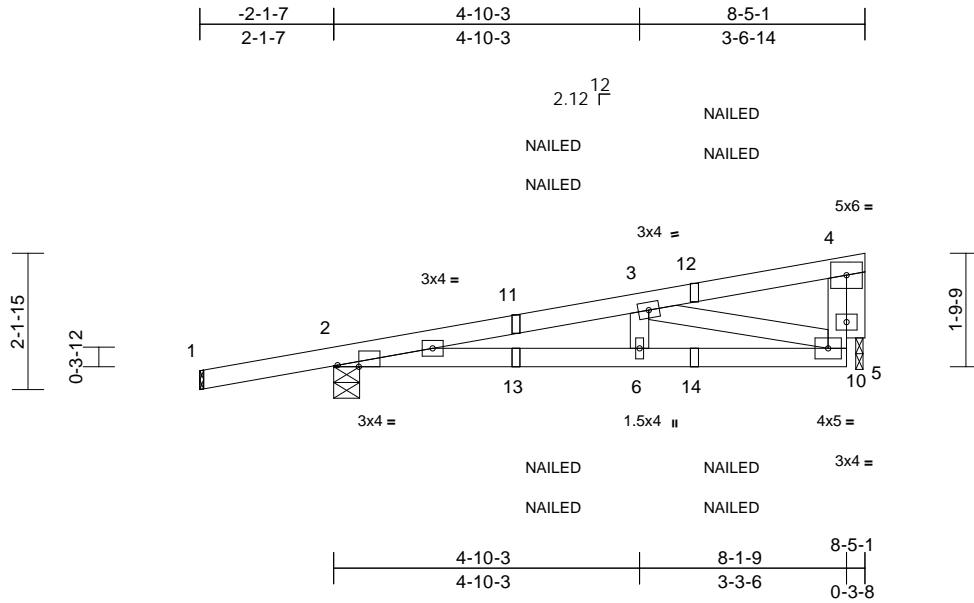
6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	RENDEK RESIDENCE	T21322211
20-442-A1	HJ-1	Diagonal Hip Girder	1	1	Job Reference (optional)	

Arnold Truss Mfg. LLC, Ocala, FL - 34475,

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Page: 1



Scale = 1:36.5

Plate Offsets (X, Y): [2:0-4-1,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.29	Vert(LL)	-0.02	6-9	>999	360	MT20
TCDL	7.0	Lumber DOL	1.25	BC	0.33	Vert(CT)	-0.05	6-9	>999	240	244/190
BCLL	0.0*	Rep Stress Incr	NO	WB	0.14	Horz(CT)	0.01	10	n/a	n/a	
BCDL	10.0	Code	FBC2017/TPI2014	Matrix-MP		Wind(LL)	0.02	6-9	>999	240	Weight: 37 lb FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size) 2=0-4-15, 10=0-1-6
Max Horiz 2=73 (LC 4)
Max Uplift 2=-168 (LC 4), 10=-48 (LC 4)
Max Grav 2=455 (LC 1), 10=305 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/20, 2-11=-853/76, 3-11=-844/79,
3-12=-117/3, 4-12=-97/8, 4-10=-13/250
BOT CHORD 2-13=-107/832, 6-13=-107/832,
6-14=-110/832, 10-14=-107/839
WEBS 3-6=0/112, 3-10=-748/93, 4-10=-320/50

NOTES

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl.,
GCpi=0.18; MWFRS (directional); cantilever left and
right exposed; end vertical left and right exposed;
Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.
- 4) Bearing at joint(s) 10 considers parallel to grain value
using ANSI/TPI 1 angle to grain formula. Building
designer should verify capacity of bearing surface.

- 5) Provide mechanical connection (by others) of truss to
bearing plate at joint(s) 10.
- 6) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 168 lb uplift at
joint 2 and 48 lb uplift at joint 10.
- 7) "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails
per NDS guidelines.
- 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 (lb/ft)
Vert: 1-4=-54, 5-7=-20
Concentrated Loads (lb)
Vert: 12=-17 (F=-9, B=-9), 13=-2 (F=-1, B=-1),
14=-35 (F=-18, B=-18)

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Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

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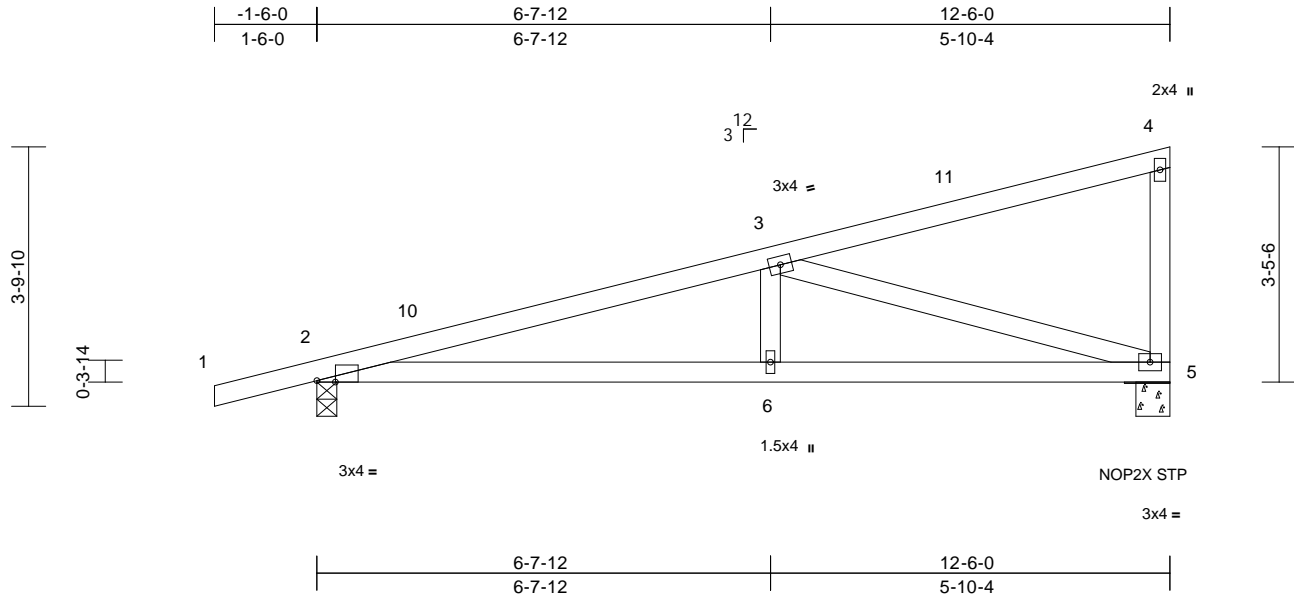
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	RENDEK RESIDENCE	T21322212
20-442-A1	M-1	Monopitch	1	1	Job Reference (optional)	

Arnold Truss Mfg. LLC, Ocala, FL - 34475,

Run: 8.42 S Aug 25 2020 Print: 8.420 S Aug 25 2020 MiTek Industries, Inc. Wed Sep 16 14:10:09
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Page: 1



Scale = 1:33.8											
Plate Offsets (X, Y): [2'-0"-3'-4", Edge]											
Loading	(psf)	Spacing	2'-0"-0"	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.25	Vert(LL)	-0.05	6-9	>999	360	GRIP
TCDL	7.0	Lumber DOL	1.25	BC	0.31	Vert(CT)	-0.11	6-9	>999	240	MT20
BCLL	0.0*	Rep Stress Incr	YES	WB	0.60	Horz(CT)	0.02	5	n/a	n/a	244/190
BCDL	10.0	Code	FBC2017/TPI2014	Matrix-AS		Wind(LL)	0.04	6-9	>999	240	Weight: 55 lb FT = 20%

LUMBER

TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.2

- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals.

BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 2=0-3-8, 5=0-6-0
Max Horiz 2=116 (LC 11)
Max Uplift 2=-125 (LC 8), 5=-71 (LC 8)
Max Grav 2=543 (LC 1), 5=452 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/20, 2-10=-1022/138, 3-10=-1020/149,
3-11=-94/41, 4-11=-64/47, 4-5=-125/103
BOT CHORD 2-6=-228/971, 5-6=-228/971
WEBS 3-6=0/268, 3-5=-980/191

NOTES

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl.,
GCpi=0.18; MWFRS (directional) and C-C Exterior (2)
-1'-6"-0" to 1'-6"-0", Interior (1) 1'-6"-0" to 12'-4"-4" zone;
cantilever left and right exposed; end vertical left and
right exposed; C-C for members and forces & MWFRS
for reactions shown; Lumber DOL=1.60 plate grip
DOL=1.60
- 2) All plates are MT20 plates unless otherwise indicated.
- 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'-0"-0" tall by 2'-0"-0" wide will fit between the bottom
chord and any other members.
- 5) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 125 lb uplift at
joint 2 and 71 lb uplift at joint 5.

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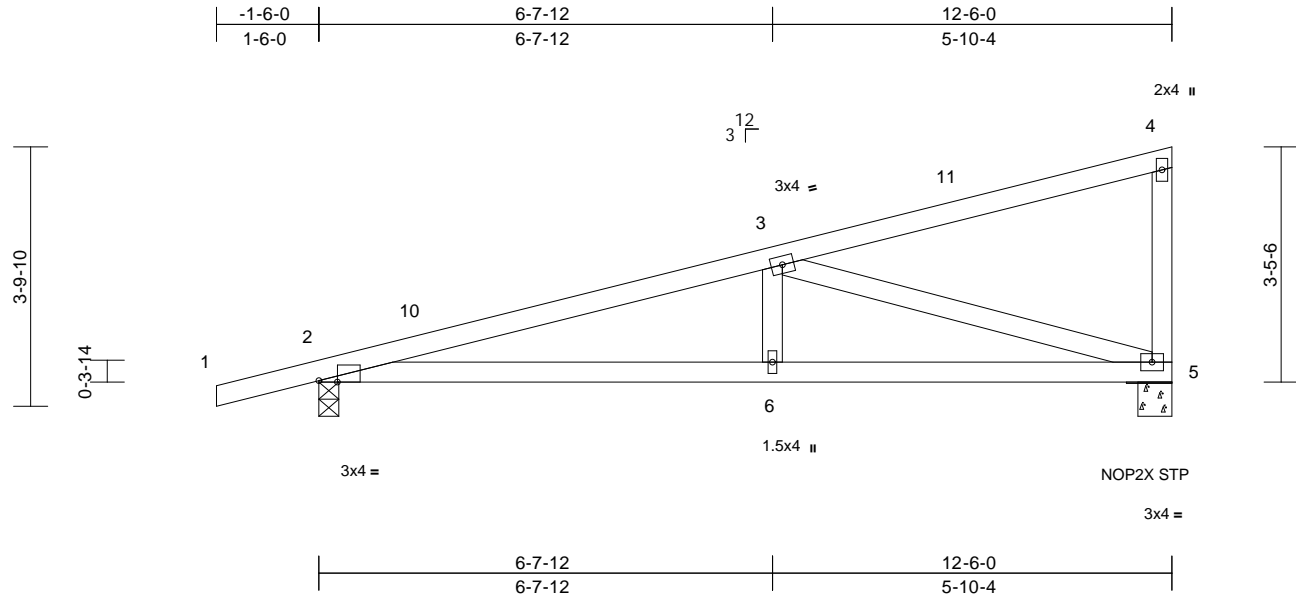
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Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	RENDEK RESIDENCE	T21322213
20-442-A1	M-2	Monopitch	2	1	Job Reference (optional)	

Arnold Truss Mfg. LLC, Ocala, FL - 34475,

Run: 8.42 S Aug 25 2020 Print: 8.420 S Aug 25 2020 MiTek Industries, Inc. Wed Sep 16 14:10:09
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Page: 1



Scale = 1:33.8

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.25	Vert(LL)	-0.05	6-9	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.31	Vert(CT)	-0.11	6-9	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.60	Horz(CT)	0.02	5	n/a	n/a		
BCDL	10.0	Code	FBC2017/TPI2014	Matrix-AS		Wind(LL)	0.04	6-9	>999	240	Weight: 55 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.2

- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals.

BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 2=0-3-8, 5=0-6-0
Max Horiz 2=116 (LC 11)
Max Uplift 2=-125 (LC 8), 5=-71 (LC 8)
Max Grav 2=543 (LC 1), 5=452 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/20, 2-10=-1022/138, 3-10=-1020/149,
3-11=-94/41, 4-11=-64/47, 4-5=-125/103
BOT CHORD 2-6=-228/971, 5-6=-228/971
WEBS 3-6=0/268, 3-5=-980/191

NOTES

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl.,
GCpi=0.18; MWFRS (directional) and C-C Exterior (2)
-1-6-0 to 1-6-0, Interior (1) 1-6-0 to 12-4-4 zone;
cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) All plates are MT20 plates unless otherwise indicated.
- 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'-06"-00" tall by 2'-00"-00" wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 125 lb uplift at joint 2 and 71 lb uplift at joint 5.

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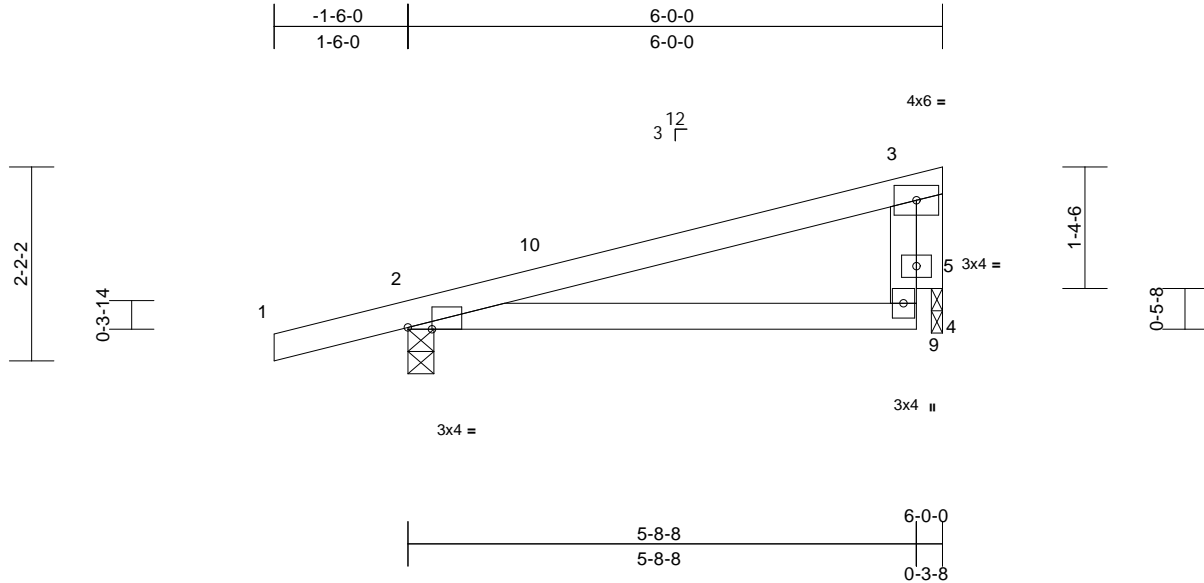
6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	RENDEK RESIDENCE	T21322214
20-442-A1	M-3	Monopitch	11	1	Job Reference (optional)	

Arnold Truss Mfg. LLC, Ocala, FL - 34475,

Run: 8.42 S Aug 25 2020 Print: 8.420 S Aug 25 2020 MiTek Industries, Inc. Wed Sep 16 14:10:09
ID:UQh54Y?3YTeNgtOgD8lkpyd21H-Mock Me

Page: 1



Scale = 1:25.9

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.24	Vert(LL)	-0.02	4-8	>999	360	MT20
TCDL	7.0	Lumber DOL	1.25	BC	0.22	Vert(CT)	-0.04	4-8	>999	240	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	9	n/a	n/a	
BCDL	10.0	Code	FBC2017/TPI2014	Matrix-AS		Wind(LL)	0.01	4-8	>999	240	Weight: 23 lb FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS

(size) 2=0-3-8, 9=0-1-8
Max Horiz 2=56 (LC 8)
Max Uplift 2=-93 (LC 8), 9=-27 (LC 8)
Max Grav 2=310 (LC 1), 9=183 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/20, 2-10=-227/15, 3-10=-227/24, 4-9=0/114, 3-9=-54/87

BOT CHORD 2-4=-46/206

WEBS 3-9=-125/0

NOTES

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl.,
GCpi=0.18; MWFRS (directional) and C-C Exterior (2)
-1-6-0 to 1-6-0, Interior (1) 1-6-0 to 5-6-12 zone;
cantilever left and right exposed; end vertical left and
right exposed; C-C for members and forces & MWFRS
for reactions shown; Lumber DOL=1.60 plate grip
DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3'-06"-00 tall by 2'-00"-00 wide will fit between the bottom
chord and any other members.
- 4) Bearing at joint(s) 9 considers parallel to grain value
using ANSI/TPI 1 angle to grain formula. Building
designer should verify capacity of bearing surface.

- 5) Provide mechanical connection (by others) of truss to
bearing plate at joint(s) 9.
- 6) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 93 lb uplift at joint
2 and 27 lb uplift at joint 9.
- 7) This truss design requires that a minimum of 7/16"
structural wood sheathing be applied directly to the top
chord and 1/2" gypsum sheetrock be applied directly to
the bottom chord.

LOAD CASE(S) Standard

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Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

September 17, 2020

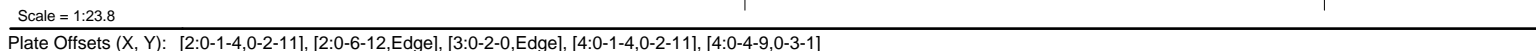
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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



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Tampa, FL 36610

Arnold Truss Mfg. LLC, Ocala, FL - 34475, Run: 8.41 S Jul 24 2020 Print: 8.410 S Jul 24 2020 MiTek Industries, Inc. Thu Sep 17 08:19:03 Page: 1
ID:?MHZPpsyGo5laVH?u8T6k2ymhul-zja0d?VQsqar5Hsh5RXhChyYGzeFI332pDkdrkycoP6



LUMBER		6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
TOP CHORD	2x4 SP No.1	
BOT CHORD	2x4 SP No.1	7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
BRACING		
TOP CHORD	Structural wood sheathing directly applied.	
BOT CHORD	Rigid ceiling directly applied.	
REACTIONS		8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 4 except (jt=lb) 2=136, 2=136.
(lb) - Max Horiz	2=33 (LC 8), 6=33 (LC 8)	9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
Max Uplift	All uplift 100 (lb) or less at joint(s) 4, 9 except 2=137 (LC 8), 6=137 (LC 8)	10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
Max Grav	All reactions 250 (lb) or less at joint (s) except 2=349 (LC 1), 4=273 (LC 1), 6=349 (LC 1), 9=273 (LC 1)	
FORCES		LOAD CASE(S) Standard
	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-612/896, 3-12=-595/907, 4-12=-613/905	
BOT CHORD	2-4=-867/598	

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

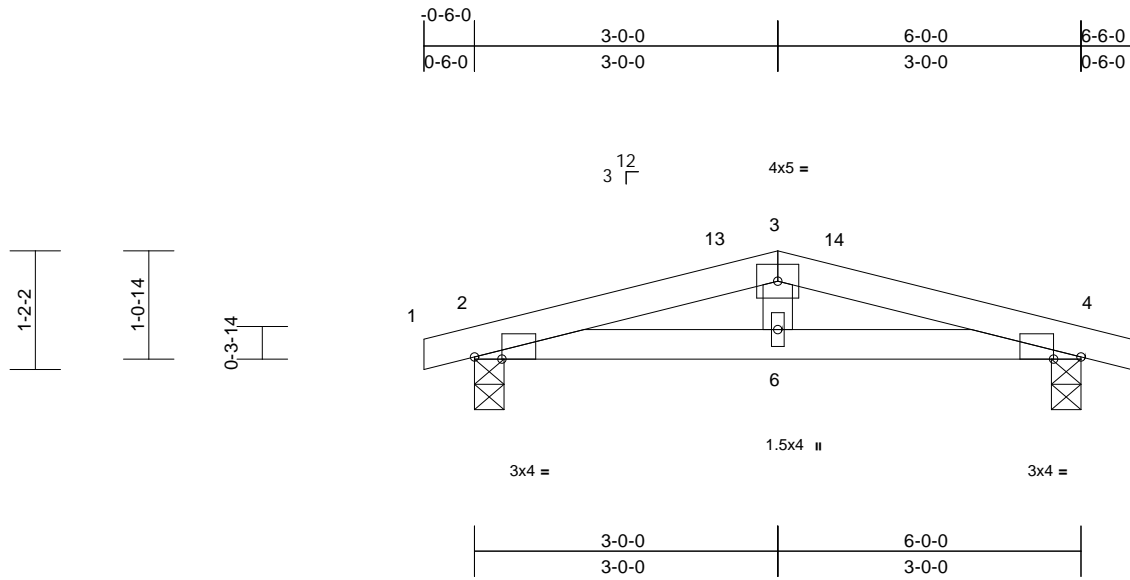
Design valid for use only with MiteTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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	RENDEK RESIDENCE	T21322216
20-442-A1	T-2	Common	2	1	Job Reference (optional)	

Arnold Truss Mfg. LLC, Ocala, FL - 34475,

Run: 8.42 S Aug 25 2020 Print: 8.420 S Aug 25 2020 MiTek Industries, Inc. Wed Sep 16 14:10:10
ID:E5Jylzb9ZET9uUkwX8Dbxymhuc-Mock Me

Page: 1



Scale = 1:22.8

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.05	Vert(LL)	-0.01	6-12	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.12	Vert(CT)	-0.01	6-12	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	FBC2017/TPI2014	Matrix-AS		Wind(LL)	0.01	6-12	>999	240	Weight: 21 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS

(size) 2=0-3-8, 4=0-3-8
Max Horiz 2=12 (LC 8)
Max Uplift 2=45 (LC 8), 4=45 (LC 9)
Max Grav 2=249 (LC 1), 4=249 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/7, 2-13=-466/209, 3-13=-450/211,
3-14=-450/211, 4-14=-466/210, 4-5=0/7
BOT CHORD 2-6=-168/444, 4-6=-168/444
WEBS 3-6=-17/117

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl.,
GCpi=0.18; MWFRS (directional) and C-C Exterior (2)
-0-6-0 to 2-6-0, Interior (1) 2-6-0 to 3-0-0, Exterior (2)
3-0-0 to 6-0-0, Interior (1) 6-0-0 to 6-6-0 zone; cantilever
left and right exposed; end vertical left and right
exposed; C-C for members and forces & MWFRS for
reactions shown; Lumber DOL=1.60 plate grip
DOL=1.60
- 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
3-0-0-0 tall by 2-0-0-0 wide will fit between the bottom
chord and any other members.

- 5) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 45 lb uplift at joint
2 and 45 lb uplift at joint 4.
- 6) This truss design requires that a minimum of 7/16"
structural wood sheathing be applied directly to the top
chord and 1/2" gypsum sheetrock be applied directly to
the bottom chord.

LOAD CASE(S) Standard

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Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

September 17,2020

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



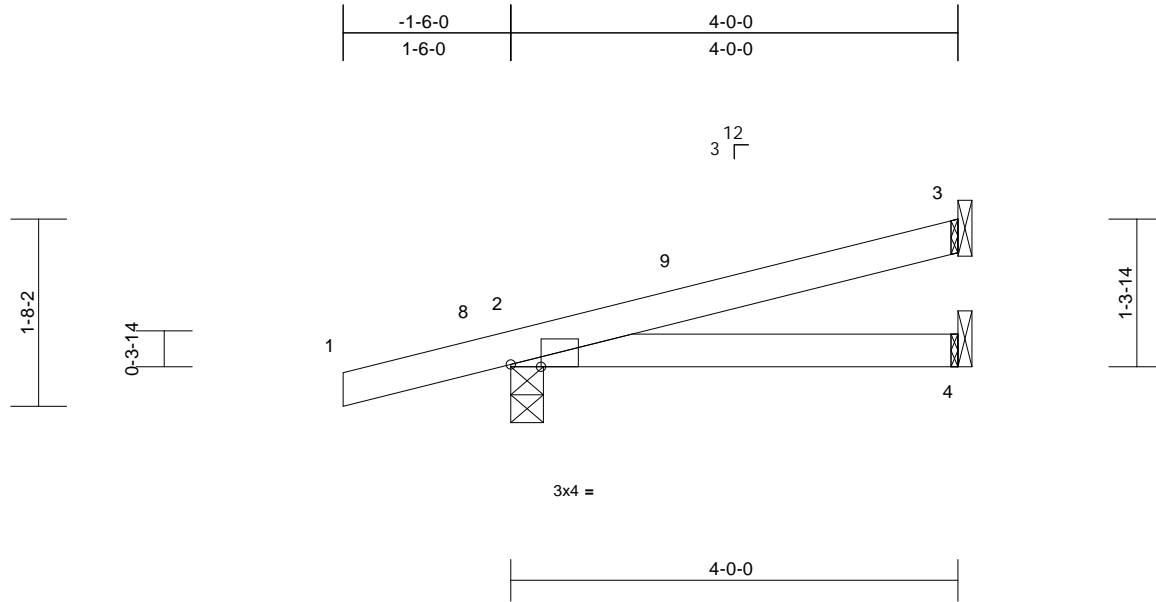
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	RENDEK RESIDENCE	T21322217
20-442-A1	T-3	Corner Jack	1	1	Job Reference (optional)	

Arnold Truss Mfg. LLC, Ocala, FL - 34475,

Run: 8.42 S Aug 25 2020 Print: 8.420 S Aug 25 2020 MiTek Industries, Inc. Wed Sep 16 14:10:10
ID:3UNqcSwsHQZs6Lf3fj6KFyd22f-Mock Me

Page: 1



Scale = 1:20.6

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.14	Vert(LL)	-0.01	4-7	>999	360	MT20
TCDL	7.0	Lumber DOL	1.25	BC	0.12	Vert(CT)	-0.02	4-7	>999	240	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a	
BCDL	10.0	Code	FBC2017/TPI2014	Matrix-AS		Wind(LL)	0.01	4-7	>999	240	Weight: 14 lb FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied.

BOT CHORD Rigid ceiling directly applied.

REACTIONS

(size) 2=0-3-8, 3= Mechanical, 4= Mechanical
Max Horiz 2=49 (LC 8)
Max Uplift 2=87 (LC 8), 3=28 (LC 8)
Max Grav 2=242 (LC 1), 3=84 (LC 1), 4=65 (LC 3)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-8=0/16, 2-8=0/20, 2-9=-77/12, 3-9=-21/17

BOT CHORD 2-4=-35/81

NOTES

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl.,
GCpi=0.18; MWFRS (directional) and C-C Exterior (2)
-1-6-0 to 1-6-0, Interior (1) 1-6-0 to 3-11-4 zone;
cantilever left and right exposed; end vertical left and
right exposed; C-C for members and forces & MWFRS
for reactions shown; Lumber DOL=1.60 plate grip
DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 28 lb uplift at joint
3 and 87 lb uplift at joint 2.

- 6) This truss design requires that a minimum of 7/16"
structural wood sheathing be applied directly to the top
chord and 1/2" gypsum sheetrock be applied directly to
the bottom chord.

LOAD CASE(S) Standard

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Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

September 17,2020

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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



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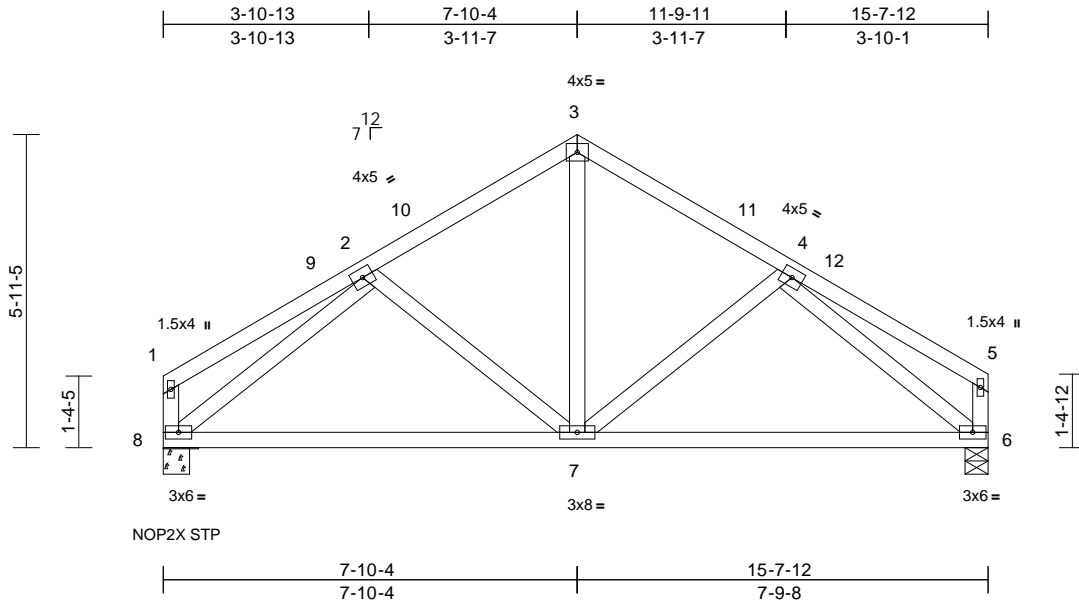
Job	Truss	Truss Type	Qty	Ply	RENDEK RESIDENCE	T21322218
20-442-A1	T-4	Common	3	1	Job Reference (optional)	

Arnold Truss Mfg. LLC, Ocala, FL - 34475,

Run: 8.42 S Aug 25 2020 Print: 8.420 S Aug 25 2020 MiTek Industries, Inc. Wed Sep 16 14:10:10

Page: 1

ID:hUKcSeP67P3DKwAj3?r9nCymhNm-Mock Me



Scale = 1:43.7

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.24	Vert(LL)	-0.06	7-8	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.38	Vert(CT)	-0.11	7-8	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code	FBC2017/TPI2014	Matrix-AS		Wind(LL)	0.01	7	>999	240	Weight: 90 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS

(size) 6=0-5-4, 8=0-6-0
Max Horiz 8=127 (LC 11)
Max Uplift 6=65 (LC 12), 8=65 (LC 12)
Max Grav 6=568 (LC 1), 8=568 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-9=-178/36, 2-9=-155/45, 2-10=-539/128,
3-10=-483/143, 3-11=-483/143,
4-11=-539/128, 4-12=-148/45, 5-12=-171/36,
1-8=-160/56, 5-6=-154/55
BOT CHORD 7-8=-116/495, 6-7=-108/481
WEBS 3-7=-35/321, 2-7=-120/114, 4-7=-114/113,
2-8=-519/140, 4-6=-524/140

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl.,
GCpi=0.18; MWFRS (directional) and C-C Exterior (2)
0-1-12 to 3-1-12, Interior (1) 3-1-12 to 7-10-4, Exterior (2)
7-10-4 to 10-10-4, Interior (1) 10-10-4 to 15-6-0 zone;
cantilever left and right exposed; end vertical left and right exposed;
C-C for members and forces & MWFRS for reactions shown;
Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are MT20 plates unless otherwise indicated.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 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 65 lb uplift at joint 8 and 65 lb uplift at joint 6.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

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Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

September 17,2020

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



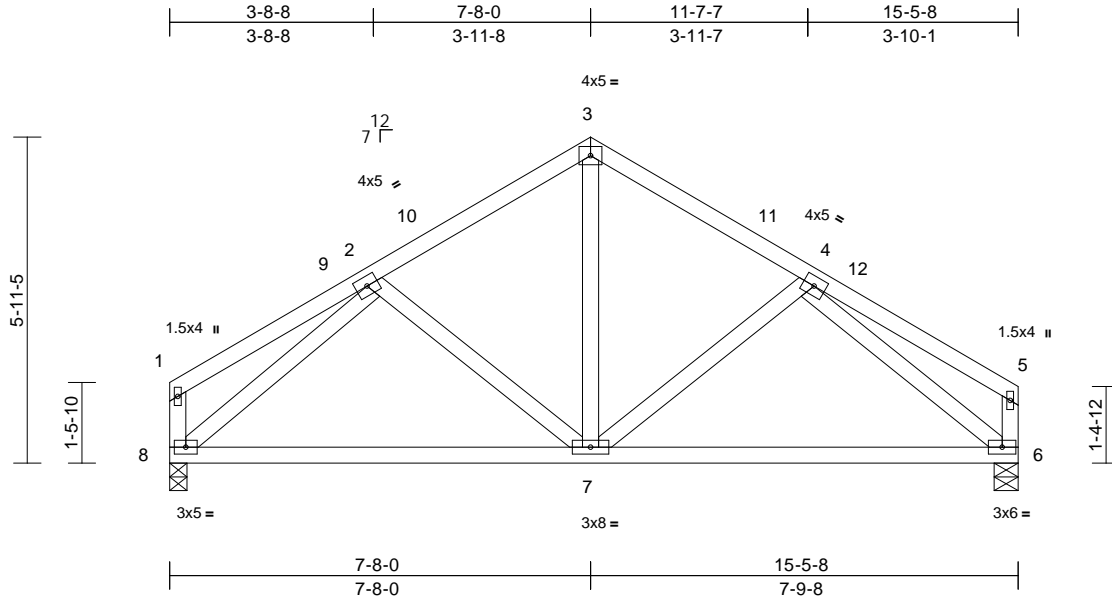
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	RENDEK RESIDENCE	T21322219
20-442-A1	T-5	Common	2	1	Job Reference (optional)	

Arnold Truss Mfg. LLC, Ocala, FL - 34475,

Run: 8.42 S Aug 25 2020 Print: 8.420 S Aug 25 2020 MiTek Industries, Inc. Wed Sep 16 14:10:10
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Page: 1



Scale = 1:42

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.23	Vert(LL)	-0.06	6-7	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.37	Vert(CT)	-0.11	6-7	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.21	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code	FBC2017/TPI2014	Matrix-AS		Wind(LL)	0.01	7	>999	240	Weight: 89 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS

(size) 6=0-5-4, 8=0-3-12
Max Horiz 8=-128 (LC 10)
Max Uplift 6=-64 (LC 12), 8=-64 (LC 12)
Max Grav 6=561 (LC 1), 8=561 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-9=-158/44, 2-9=-136/46, 2-10=-528/126,
3-10=-472/142, 3-11=-472/142,
4-11=-528/127, 4-12=-148/45, 5-12=-171/36,
1-8=-145/51, 5-6=-155/55
BOT CHORD 7-8=-111/473, 6-7=-108/473
WEBS 3-7=-33/312, 4-7=-117/113, 2-7=-104/109,
2-8=-522/142, 4-6=-513/140

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl.,
GCpi=0.18; MWFRS (directional) and C-C Exterior (2)
0-4-0 to 3-4-0, Interior (1) 3-4-0 to 7-10-4, Exterior (2)
7-10-4 to 10-10-4, Interior (1) 10-10-4 to 15-6-0 zone;
cantilever left and right exposed; end vertical left and
right exposed; C-C for members and forces & MWFRS
for reactions shown; Lumber DOL=1.60 plate grip
DOL=1.60
- 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
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.
- 5) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 64 lb uplift at joint
8 and 64 lb uplift at joint 6.
- 6) This truss design requires that a minimum of 7/16"
structural wood sheathing be applied directly to the top
chord and 1/2" gypsum sheetrock be applied directly to
the bottom chord.

LOAD CASE(S) Standard

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Joaquin Velez PE No.68182
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6904 Parke East Blvd. Tampa FL 33610
Date:

September 17,2020

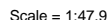
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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Arnold Truss Mfg. LLC, Ocala, FL - 34475, Run: 8.42 S Aug 25 2020 Print: 8.420 S Aug 25 2020 MiTek Industries, Inc. Wed Sep 16 14:10:11 Page: 1
ID:RuiWQQ3 rCiCdnrFZiz2EQymhXE-Mock Me



Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.48	Vert(LL)	-0.05	8-9	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.25	Vert(CT)	-0.09	8-9	>999	240	M18SHS	244/190
BCLL	0.0*	Rep Stress Incr	NO	WB	0.50	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code	FBC2017/TPI2014	Matrix-MS		Wind(LL)	0.03	8-9	>999	240	Weight: 213 lb	FT = 20%

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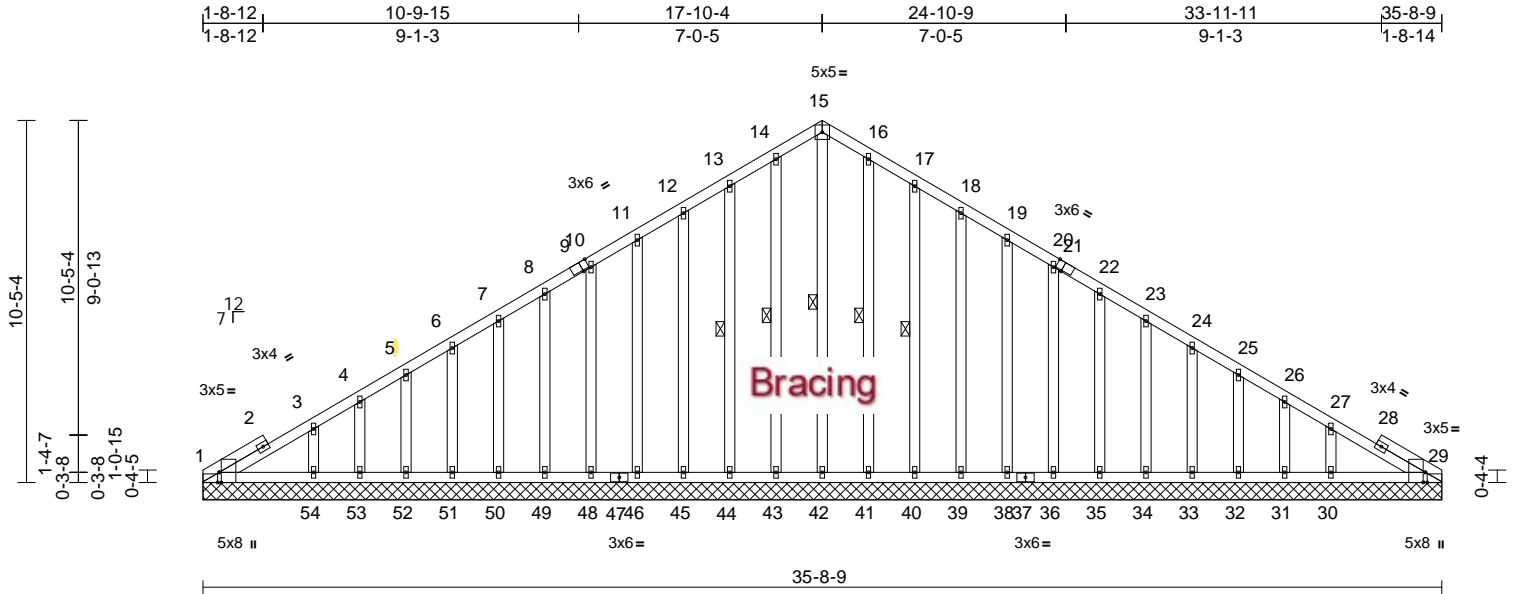
September 17,2020

Job	Truss	Truss Type	Qty	Ply	RENDEK RESIDENCE	T21322221
20-442-A1	T-7	Common Supported Gable	1	1	Job Reference (optional)	

Arnold Truss Mfg. LLC, Ocala, FL - 34475,

Run: 8.41 E Jul 24 2020 Print: 8.410 E Jul 24 2020 MiTek Industries, Inc. Thu Sep 17 08:20:06
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Page: 1



Scale = 1:66.4

Plate Offsets (X, Y): [1:0-3-8,Edge], [1:0-0-9,Edge], [9:0-2-6,Edge], [21:0-2-6,Edge], [29:0-3-8,Edge], [29:0-0-10,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	7.0	Lumber DOL	1.25	BC	0.05	Vert(TL)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.08	Horiz(TL)	0.01	29	n/a	n/a	
BCDL	10.0	Code	FBC2017/TPI2014	Matrix-AS							Weight: 305 lb FT = 20%

LUMBER

TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 15-42, 14-43, 13-44, 16-41, 17-40

REACTIONS

All bearings 35-8-9.
(lb) - Max Horiz 1=202 (LC 11), 55=202 (LC 11)
Max Uplift All uplift 100 (lb) or less at joint(s)
1, 30, 31, 32, 33, 34, 35, 36, 38, 39, 40, 44, 45, 46, 48, 49, 50, 51, 52, 53, 54, 55
Max Grav All reactions 250 (lb) or less at joint (s)
1, 29, 30, 31, 32, 33, 34, 35, 36, 38, 39, 40, 41, 42, 43, 44, 45, 46, 48, 49, 50, 51, 52, 53, 54, 55, 58

FORCES

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

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=36ft; eave=2ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Corner (3) 0-0-0 to 3-6-14, Exterior (2) 3-6-14 to 17-10-4, Corner (3) 17-10-4 to 21-5-1, Exterior (2) 21-5-1 to 35-8-9 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 44, 45, 46, 48, 49, 50, 51, 52, 53, 54, 40, 39, 38, 36, 35, 34, 33, 32, 31, 30, 1.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

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

September 17,2020

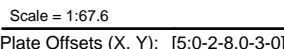
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Arnold Truss Mfg. LLC, Ocala, FL - 34475, Run: 8.42 S Aug 25 2020 Print: 8.420 S Aug 25 2020 MiTek Industries, Inc. Wed Sep 16 14:10:12 Page: 1
ID:TQv2XNj?HP5w7U0xbdvsu9ymx?z-Mock Me



LUMBER
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied,
except end verticals.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 3-10, 5-10

REACTIONS (size) 7= Mechanical, 12= Mechanical
Max Horiz 12=-263 (LC 10)
Max Uplift 7=-125 (LC 12), 12=-133 (LC 12)
Max Grav 7=1098 (LC 1), 12=1123 (LC 22)

FORCES (lb) - Maximum Compression/Maximum
Tension
TOP CHORD 1-2=0/9, 2-17=-734/156, 3-17=-673/170,
3-18=-1000/255, 4-18=-934/267,
4-19=-922/274, 5-19=-986/262,
5-6=-1663/316, 6-20=-1761/307,
7-20=-1805/293, 2-12=-1160/178
BOT CHORD 12-13=0/0, 11-12=-189/228, 11-21=-27/889,
21-22=-27/889, 10-22=-27/889,
9-10=-72/1139, 9-23=-72/1139,
23-24=-72/1139, 8-24=-72/1139,
7-8=-189/1513
WEBS 2-11=-50/907, 3-11=-554/161, 3-10=-87/137,
4-10=-128/683, 5-10=-612/198, 5-8=-42/561,
6-8=-312/171

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust)
Vasd=101mph; TCdL=4.2psf; BCDL=6.0psf; n=25ft;
B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl.,
GCpi=0.18; MWFRS (directional) and C-C Exterior (2),
4-0-0 to 7-0-0, Interior (1) 7-0-0 to 16-1-11, Exterior (2)
16-1-11 to 19-1-11, Interior (1) 19-1-11 to 34-0-0 zone;
cantilever left and right exposed ; end vertical left and
right exposed; C-C for members and forces & MWFRS
for reactions shown; Lumber DOL=1.60 plate grip
DOL=1.60
- 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
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members, with BCDL = 10.0psf.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 133 lb uplift at
joint 12 and 125 lb uplift at joint 7.
- 7) This truss design requires that a minimum of 7/16"
structural wood sheathing be applied directly to the top
chord and 1/2" gypsum sheetrock be applied directly to
the bottom chord.

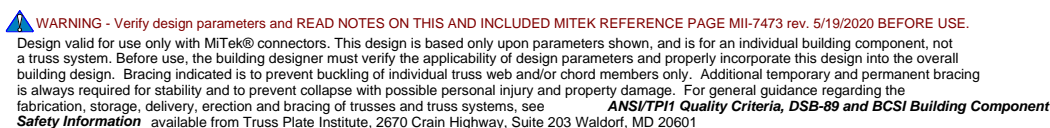
LOAD CASE(S) Standard

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

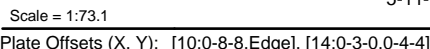
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September 17, 2020



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LUMBER		2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior (2) 4-0-0 to 7-0-0, Interior (1) 7-0-0 to 16-1-11, Exterior (2) 16-1-11 to 19-1-11, Interior (1) 19-1-11 to 34-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
TOP CHORD	2x4 SP No.1	
BOT CHORD	2x6 SP M 26	
WEBS	2x4 SP No.2	
BRACING		
TOP CHORD	Structural wood sheathing directly applied, except end verticals.	
BOT CHORD	Rigid ceiling directly applied.	
JOINTS	1 Brace at Jt(s): 17	
REACTIONS	(size) 10=0-6-0, 15= Mechanical Max Horiz 15=-261 (LC 10) Max Uplift 10=-66 (LC 12), 15=-44 (LC 12) Max Grav 10=1247 (LC 19), 15=1350 (LC 20)	3) All plates are MT20 plates unless otherwise indicated. 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
FORCES	(lb) - Maximum Compression/Maximum Tension	6) Bottom chord live load (20.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 12-14 7) Refer to girder(s) for truss to truss connections. 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 44 lb uplift at joint 15 and 66 lb uplift at joint 10.
TOP CHORD	1-2=0/9, 2-20=-1564/86, 3-20=-1463/100, 3-4=-1299/189, 4-21=-375/135, 5-21=-301/156, 5-22=-254/153, 6-22=-313/140, 6-7=-1238/195, 7-8=-1517/119, 8-9=-1629/108, 9-23=-2174/209, 10-23=-2280/196, 2-15=-1700/117	9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
BOT CHORD	15-16=0/0, 14-15=-240/216, 13-14=0/1358, 12-13=0/1358, 11-12=-104/1922, 10-11=-104/1922	10) ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE
WEBS	3-14=0/391, 7-12=0/546, 9-12=-851/218, 4-17=-1127/77, 6-17=-1127/77, 5-17=0/2, 2-14=-13/1670, 9-11=-38/449	

NOTES

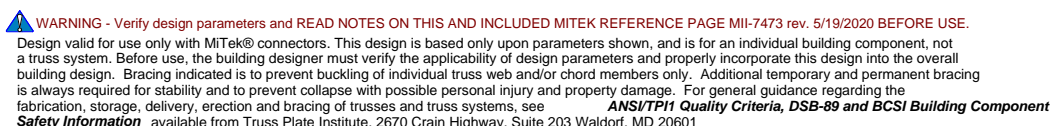
1) Unbalanced roof live loads have been considered for this design.

LOAD CASE(S) Standard

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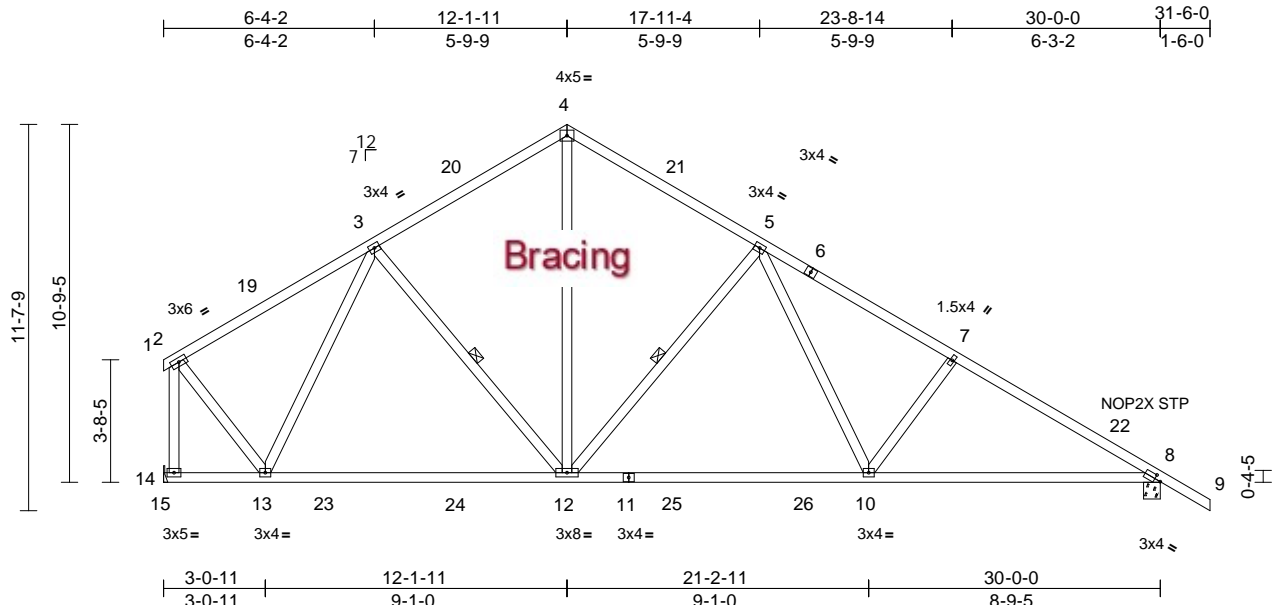
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Job	Truss	Truss Type	Qty	Ply	RENDEK RESIDENCE	T21322224
20-442-A1	T-10	Common	1	1	Job Reference (optional)	

Arnold Truss Mfg. LLC, Ocala, FL - 34475,

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Page: 1



Scale = 1:69.4

Plate Offsets (X, Y): [8:0-2-4,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.27	Vert(LL)	-0.18	10-12	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.59	Vert(CT)	-0.29	10-12	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.59	Horz(CT)	0.04	8	n/a	n/a		
BCDL	10.0	Code	FBC2017/TPI2014	Matrix-AS		Wind(LL)	-0.05	10-18	>999	240	Weight: 181 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 3-12, 5-12

REACTIONS

(size) 8=0-6-0, 14= Mechanical
Max Horiz 14=-276 (LC 10)
Max Uplift 8=-179 (LC 12), 14=-131 (LC 12)
Max Grav 8=1181 (LC 1), 14=1121 (LC 19)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/9, 2-19=-733/154, 3-19=-672/168, 3-20=-998/250, 4-20=-931/263, 4-21=-920/271, 5-21=-985/258, 5-6=-1534/295, 6-7=-1652/282, 7-22=-1752/284, 8-22=-1793/262, 8-9=0/41, 2-14=-1159/177
BOT CHORD 14-15=0/0, 13-14=-194/241, 13-23=0/898, 23-24=0/898, 12-24=0/898, 11-12=-35/1144, 11-25=-35/1144, 25-26=-35/1144, 10-26=-35/1144, 8-10=-140/1497
WEBS 2-13=-49/906, 3-13=-553/160, 3-12=-87/136, 4-12=-126/683, 5-12=-607/196, 5-10=-29/552, 7-10=-317/160

NOTES

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

- Wind: ASCE 7-10; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft;
B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl.,
GCpi=0.18; MWFRS (directional) and C-C Exterior (2)
4-0-0 to 7-0-0, Interior (1) 7-0-0 to 16-1-11, Exterior (2)
16-1-11 to 19-1-11, Interior (1) 19-1-11 to 35-6-0 zone;
cantilever left and right exposed; end vertical left and
right exposed; C-C for members and forces & MWFRS
for reactions shown; Lumber DOL=1.60 plate grip
DOL=1.60
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 131 lb uplift at
joint 14 and 179 lb uplift at joint 8.
- This truss design requires that a minimum of 7/16"
structural wood sheathing be applied directly to the top
chord and 1/2" gypsum sheetrock be applied directly to
the bottom chord.

LOAD CASE(S) Standard

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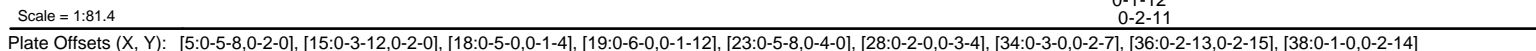
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LUMBER		BOT CHORD	30-31=0/0, 29-30=-232/281, 29-59=-207/1014, 28-59=-207/1014, 28-60=-138/864, 60-61=-138/864, 27-61=-138/864, 26-27=-126/576, 25-26=-61/185, 24-25=0/0, 22-23=-45/120, 21-22=-59/264	2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=31ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior (2) 0-3-12 to 3-5-2, Interior (1) 3-5-2 to 13-11-9, Exterior (2) 13-11-9 to 18-4-6, Interior (1) 18-4-6 to 20-2-12, Exterior (2) 20-2-12 to 24-7-9, Interior (1) 24-7-9 to 32-10-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
TOP CHORD	2x4 SP No.1			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.
BOT CHORD	2x4 SP No.1			4) Provide adequate drainage to prevent water ponding.
WEBS	2x4 SP No.2 *Except* 25-18:2x4 SP No.1	WEBS	28-33=-28/408, 5-33=-31/423, 5-42=-144/160, 34-42=-134/140, 27-34=-280/90, 27-35=-57/230, 10-35=-66/232, 18-21=-718/87, 25-39=0/49, 23-39=-75/301, 18-23=-53/412, 2-28=-270/115, 26-37=-139/94, 15-37=-130/83, 2-29=-187/141, 27-36=-13/279, 36-48=-18/334, 15-48=-28/356, 26-38=-73/464, 23-38=-140/667, 15-51=-572/70, 51-52=-638/81, 23-52=-596/75, 1-29=-127/879, 3-44=-133/91, 33-44=-119/91, 33-43=-89/87, 34-43=-90/83, 34-41=-59/148, 40-41=-59/124, 35-40=-58/121, 35-45=-61/124, 45-46=-59/130, 36-46=-110/74, 36-47=-128/53, 47-49=-145/50, 37-49=-134/49, 37-50=-131/44, 38-50=-138/48, 38-39=-453/147, 9-40=-13/14, 8-41=-43/21, 7-34=-143/83, 6-42=-34/15, 42-43=-10/7, 4-44=0/28, 11-45=-6/14, 12-46=-114/88, 13-48=-66/38, 47-48=-37/24, 15-49=-20/36, 16-51=-90/22, 50-51=-19/14, 17-52=0/67, 38-52=-27/50	5) All plates are 1.5x4 MT20 unless otherwise indicated. 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web). 7) Gable studs spaced at 1'-4"-0 oc. 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
OTHERS	2x4 SP No.2			
BRACING				
TOP CHORD	Structural wood sheathing directly applied, except end verticals.			
BOT CHORD	Rigid ceiling directly applied.			
WEBS	1 Row at midpt 27-34, 2-28			
JOINTS	1 Brace at Jt(s): 34, 35, 36, 37, 38, 51, 52			
REACTIONS	(size)			
	19=1-7-8, 21=1-7-8, 22=0-3-8, 30= Mechanical			
	Max Horiz 30=271 (LC 11)			
	Max Uplift 19=-193 (LC 12), 22=-88 (LC 12), 30=-124 (LC 12)			
	Max Grav 19=186 (LC 21), 21=486 (LC 22), 22=629 (LC 1), 30=1114 (LC 20)			
FORCES	(lb) - Maximum Compression/Maximum Tension			
TOP CHORD	1-53=-1115/211, 2-53=-1033/231, 2-54=-979/292, 3-54=-947/307, 3-4=-825/284, 4-5=-785/287, 5-6=-705/316, 6-55=-705/316, 7-55=-705/316, 7-8=-705/316, 8-56=-705/316, 9-56=-705/316, 9-10=-705/316, 10-11=-792/331, 11-12=-828/327, 12-13=-801/278, 13-57=-777/253, 14-57=-795/251, 14-15=-809/248, 15-16=-345/178, 16-17=-323/163, 17-18=-324/138, 18-58=-119/144, 19-58=-128/138, 19-20=0/44, 1-30=-1031/248, 19-21=0/0	NOTES 1) Unbalanced roof live loads have been considered for this design.		This item has been electronically signed and sealed by Velez, Joaquin, 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. Joaquin Velez PE No.68182

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Date: September 17,2020

Job	Truss	Truss Type	Qty	Ply	RENDEK RESIDENCE	T21322225
20-442-A1	T-11	Piggyback Base Structural Gable	1	1	Job Reference (optional)	

Arnold Truss Mfg. LLC, Ocala, FL - 34475,

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Page: 2

- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 10) Refer to girder(s) for truss to truss connections.
- 11) Bearing at joint(s) 19 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 124 lb uplift at joint 30, 193 lb uplift at joint 19 and 88 lb uplift at joint 22.
- 13) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

 **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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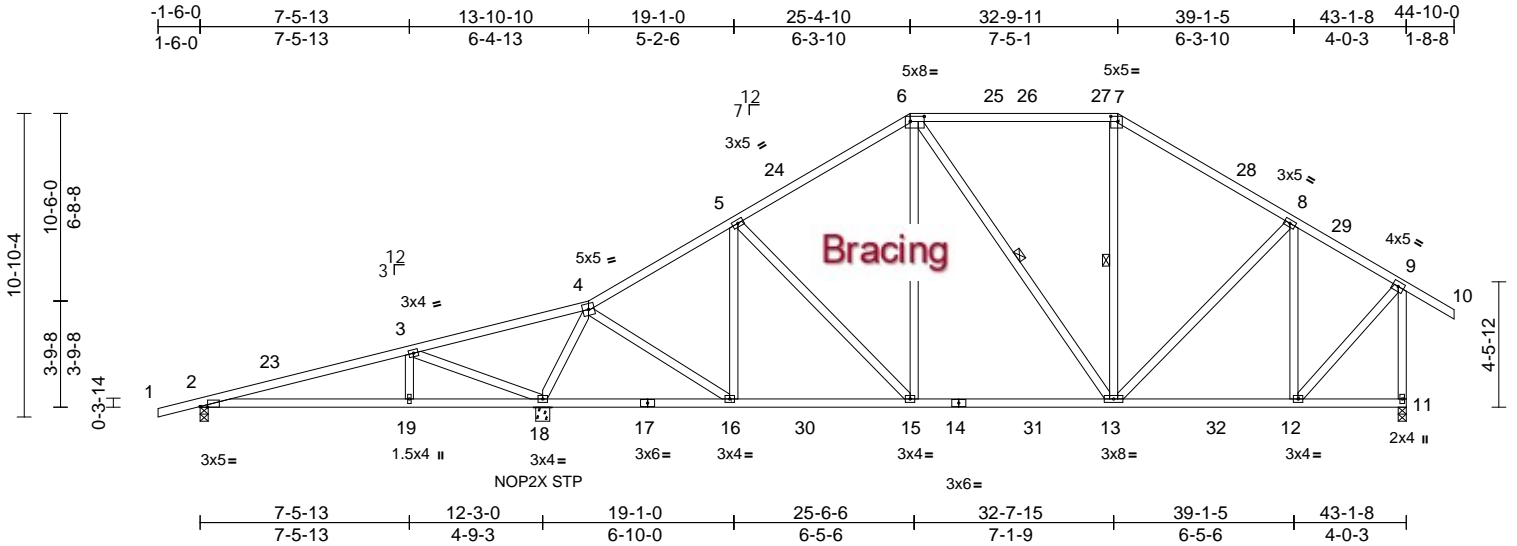
Job	Truss	Truss Type	Qty	Ply	RENDEK RESIDENCE	T21322226
20-442-A1	T-12	Piggyback Base	6	1	Job Reference (optional)	

Arnold Truss Mfg. LLC, Ocala, FL - 34475,

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Scale = 1:82.4

Plate Offsets (X, Y): [2:0-3-4,Edge], [6:0-6-0,0-2-4], [7:0-3-0,0-2-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.41	Vert(LL)	-0.08	13-15	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.35	Vert(CT)	-0.14	13-15	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.45	Horz(CT)	0.02	11	n/a	n/a		
BCDL	10.0	Code	FBC2017/TPI2014	Matrix-AS		Wind(LL)	0.04	19-22	>999	240	Weight: 270 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 6-13, 7-13

REACTIONS

(size) 2=0-3-8, 11=0-3-8, 18=0-6-0
Max Horiz 2=271 (LC 11)
Max Uplift 2=92 (LC 12), 11=187 (LC 12), 18=202 (LC 12)
Max Grav 2=373 (LC 24), 11=1199 (LC 21), 18=1823 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/20, 2-23=-253/93, 3-23=-232/104, 3-4=-176/779, 4-5=-949/234, 5-24=-995/286, 6-24=-928/304, 6-25=-778/307, 25-26=-778/307, 26-27=-778/307, 7-27=-778/307, 7-28=-883/292, 8-28=-951/274, 8-29=-690/216, 9-29=-767/201, 9-10=0/50, 9-11=-1182/300
BOT CHORD 2-19=-69/225, 18-19=-69/225, 17-18=-144/89, 16-17=-144/89, 16-30=-141/857, 15-30=-141/857, 14-15=-102/871, 14-31=-102/871, 13-31=-102/871, 13-32=-101/614, 12-32=-101/614, 11-12=-59/67
WEBS 3-19=0/251, 3-18=-953/181, 4-18=-1537/336, 4-16=-124/968, 5-16=-373/151, 5-15=-101/122, 6-15=0/268, 6-13=-152/62, 7-13=-19/206, 8-13=-20/265, 8-12=-514/154, 9-12=-114/884

NOTES

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

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=43ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior (2) -1-6-0 to 2-9-12, Interior (1) 2-9-12 to 25-4-10, Exterior (2) 25-4-10 to 29-8-6, Interior (1) 29-8-6 to 32-9-11, Exterior (2) 32-9-11 to 37-1-7, Interior (1) 37-1-7 to 44-10-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 92 lb uplift at joint 2, 202 lb uplift at joint 18 and 187 lb uplift at joint 11.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

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Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

September 17,2020

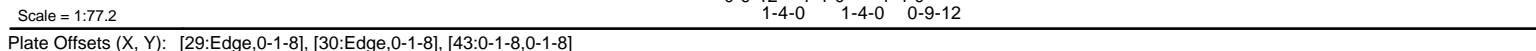
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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



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Arnold Truss Mfg. LLC, Ocala, FL - 34475, Run: 8.42 S Aug 25 2020 Print: 8.420 S Aug 25 2020 MiTek Industries, Inc. Wed Sep 16 14:10:14 Page: 1
ID:82sJLynR3IKrs1qVfDAKhzmhfL-Mock Me



LUMBER		Max Grav	30=739 (LC 17), 31=548 (LC 11), 32=168 (LC 17), 33=105 (LC 18), 34=125 (LC 17), 35=124 (LC 17), 36=110 (LC 18), 37=112 (LC 18), 38=74 (LC 18), 39=46 (LC 11), 40=271 (LC 1), 41=50 (LC 3), 42=53 (LC 3), 44=53 (LC 3), 45=53 (LC 3), 46=50 (LC 3), 47=271 (LC 1), 48=45 (LC 10), 49=73 (LC 17), 50=112 (LC 17), 51=110 (LC 17), 52=126 (LC 18), 54=126 (LC 18), 55=104 (LC 17), 56=176 (LC 18), 57=561 (LC 10), 58=443 (LC 11)	BOT CHORD	57-58=-166/134, 56-57=-166/134, 55-56=-166/134, 54-55=-166/134, 53-54=-166/134, 52-53=-166/134, 51-52=-166/134, 50-51=-166/134, 49-50=-166/134, 48-49=-166/134, 47-48=-166/134, 46-47=-164/151, 45-46=-164/151, 44-45=-164/151, 43-44=-164/151, 42-43=-164/151, 41-42=-164/151, 40-41=-164/151, 39-40=-166/134, 38-39=-166/134, 37-38=-166/134, 36-37=-166/134, 35-36=-166/134, 34-35=-166/134, 33-34=-166/134, 32-33=-166/134, 31-32=-166/134, 30-31=-166/134,
TOP CHORD	2x4 SP No.1				
BOT CHORD	2x4 SP No.1				
WEBS	2x4 SP No.2				
OTHERS	2x4 SP No.2				
BRACING					
TOP CHORD	Structural wood sheathing directly applied, except end verticals.				
BOT CHORD	Rigid ceiling directly applied.				
WEBS	1 Row at midpt 11-48, 19-39, 12-47, 18-40				
JOINTS	1 Brace at Jt(s): 59, 61, 63, 68, 70, 72				

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Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: September 17,2020

Job	Truss	Truss Type	Qty	Ply	RENDEK RESIDENCE
20-442-A1	T-13	Roof Special Supported Gable	1	1	T21322227
					Job Reference (optional)

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ID:82sJLynR3IKrs1gVfDAKhzyhmhL-Mock Me

WEBS
 15-59=-173/145, 14-60=-50/43,
 13-61=-61/92, 11-48=-86/105,
 10-49=-101/110, 9-50=-86/66, 8-51=-89/72,
 7-52=-100/61, 5-54=-94/49, 4-55=-71/42,
 3-56=-86/50, 2-57=-230/206, 16-62=-50/43,
 17-63=-61/92, 19-39=-86/105,
 20-38=-101/110, 21-37=-86/66,
 22-36=-89/72, 23-35=-99/61, 25-34=-94/48,
 26-33=-72/42, 27-32=-78/56,
 28-31=-230/188, 61-64=-49/90,
 60-61=-49/90, 59-60=-49/90, 59-62=-49/90,
 62-63=-49/90, 63-65=-49/90, 47-66=-265/6,
 64-66=-271/6, 12-64=-271/36, 40-67=-265/1,
 65-67=-271/1, 18-65=-271/36, 66-68=-43/23,
 68-69=-43/23, 69-70=-43/23, 70-71=-43/23,
 71-72=-43/23, 67-72=-43/23, 46-68=-11/0,
 45-69=0/6, 44-70=-2/0, 42-71=0/6,
 41-72=-11/0

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust)
 Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft;
 B=45ft; L=32ft; eave=2ft; Cat. II; Exp B; Encl.,
 GCpi=0.18; MWFRS (directional) and C-C Corner (3)
 0-1-12 to 3-4-9, Exterior (2) 3-4-9 to 16-1-12, Corner (3)
 16-1-12 to 19-7-8, Exterior (2) 19-7-8 to 32-2-4 zone;
 cantilever left and right exposed ; end vertical left and
 right exposed; C-C for members and forces & MWFRS
 for reactions shown; Lumber DOL=1.60 plate grip
 DOL=1.60
- 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) Provide adequate drainage to prevent water ponding.
- 5) All plates are 1.5x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Truss to be fully sheathed from one face or securely
 braced against lateral movement (i.e. diagonal web).
- 8) Gable studs spaced at 1-4-0 oc.
- 9) This truss has been designed for a 10.0 psf bottom
 chord live load nonconcurrent with any other live loads.
- 10) * This truss has been designed for a live load of 20.0psf
 on the bottom chord in all areas where a rectangle
 3-06-00 tall by 2-00-00 wide will fit between the bottom
 chord and any other members.
- 11) Provide mechanical connection (by others) of truss to
 bearing plate capable of withstanding 399 lb uplift at
 joint 58, 396 lb uplift at joint 30, 79 lb uplift at joint 48, 77
 lb uplift at joint 49, 33 lb uplift at joint 50, 37 lb uplift at
 joint 51, 44 lb uplift at joint 52, 37 lb uplift at joint 54, 21
 lb uplift at joint 55, 82 lb uplift at joint 56, 464 lb uplift at
 joint 57, 79 lb uplift at joint 39, 77 lb uplift at joint 38, 33
 lb uplift at joint 37, 37 lb uplift at joint 36, 44 lb uplift at
 joint 35, 36 lb uplift at joint 34, 21 lb uplift at joint 33, 87
 lb uplift at joint 32 and 434 lb uplift at joint 31.
- 12) This truss design requires that a minimum of 7/16"
 structural wood sheathing be applied directly to the top
 chord and 1/2" gypsum sheetrock be applied directly to
 the bottom chord.
- 13) Hanger(s) or other connection device(s) shall be
 provided sufficient to support concentrated load(s) 405
 lb down and 176 lb up at 32-2-4 on top 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 (lb/ft)
 Vert: 6-15=-54, 30-58=-20, 1-6=-54, 24-29=-54,
 15-24=-54
 Concentrated Loads (lb)
 Vert: 29=-366

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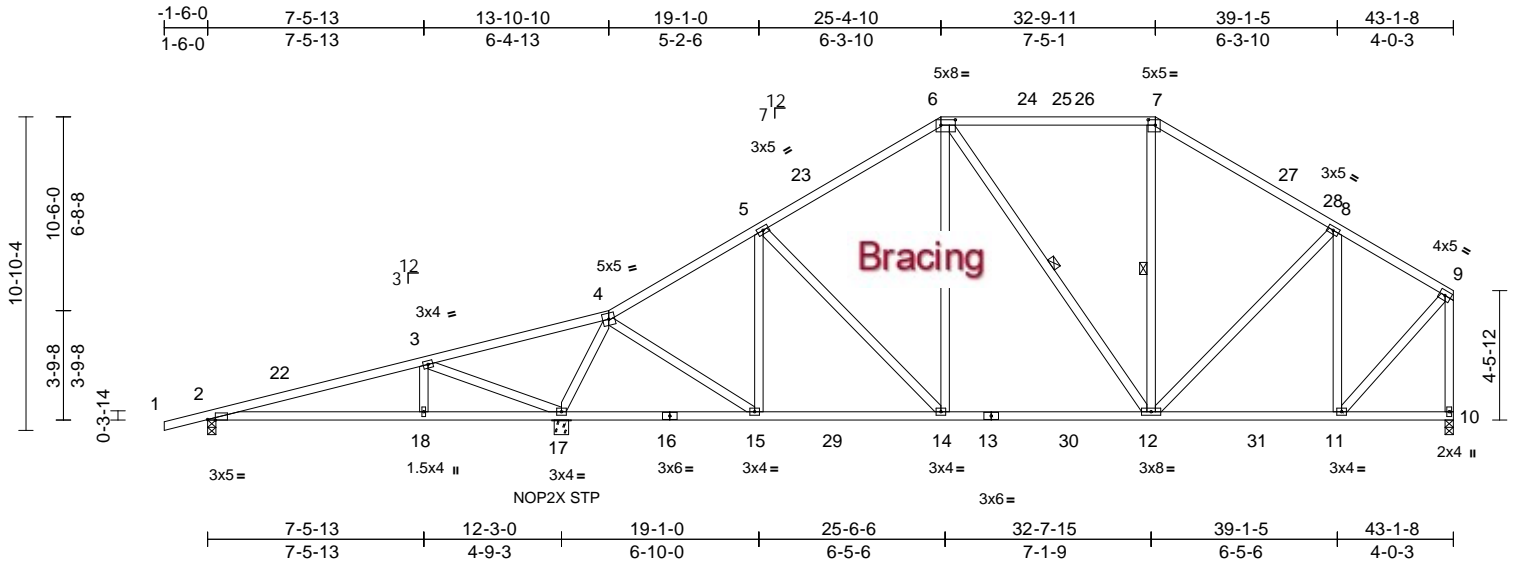
Job	Truss	Truss Type	Qty	Ply	RENDEK RESIDENCE	T21322228
20-442-A1	T-14	Piggyback Base	4	1	Job Reference (optional)	

Arnold Truss Mfg. LLC, Ocala, FL - 34475,

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Scale = 1:79.8

Plate Offsets (X, Y): [2:0-3-4,Edge], [6:0-6-0,0-2-4], [7:0-3-0,0-2-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.41	Vert(LL)	-0.08	12-14	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.35	Vert(CT)	-0.14	12-14	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.45	Horz(CT)	0.02	10	n/a	n/a		
BCDL	10.0	Code	FBC2017/TPI2014	Matrix-AS		Wind(LL)	0.04	18-21	>999	240	Weight: 267 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 6-12, 7-12

REACTIONS

(size) 2=0-3-8, 10=0-3-8, 17=0-6-0
Max Horiz 2=266 (LC 11)
Max Uplift 2=86 (LC 12), 10=123 (LC 12), 17=207 (LC 12)
Max Grav 2=373 (LC 24), 10=1108 (LC 21), 17=1826 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/20, 2-22=-253/84, 3-22=-232/95, 3-4=-206/772, 4-5=-951/225, 5-23=-998/280, 6-23=-931/298, 6-24=-782/301, 24-25=-782/301, 25-26=-782/301, 7-26=-782/301, 7-27=-888/285, 27-28=-947/267, 8-28=-957/259, 8-9=-771/200, 9-10=-1089/220
BOT CHORD 2-18=-89/225, 17-18=-89/225, 16-17=-140/81, 15-16=-140/81, 15-29=-181/851, 14-29=-181/851, 13-14=-148/864, 13-30=-148/864, 12-30=-148/864, 12-31=-147/623, 11-31=-147/623, 10-11=-52/64
WEBS 3-18=0/251, 3-17=-953/181, 4-17=-1538/345, 5-14=-98/123, 6-14=0/267, 6-12=-151/63, 7-12=-13/207, 8-12=-27/253, 8-11=-521/193, 9-11=-163/887, 5-15=-374/159, 4-15=-139/966

NOTES

- Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=43ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior (2) -1-6-0 to 2-9-12, Interior (1) 2-9-12 to 25-4-10, Exterior (2) 25-4-10 to 29-8-6, Interior (1) 29-8-6 to 32-9-11, Exterior (2) 32-9-11 to 37-1-7, Interior (1) 37-1-7 to 42-11-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 86 lb uplift at joint 2, 207 lb uplift at joint 17 and 123 lb uplift at joint 10.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

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Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

September 17,2020

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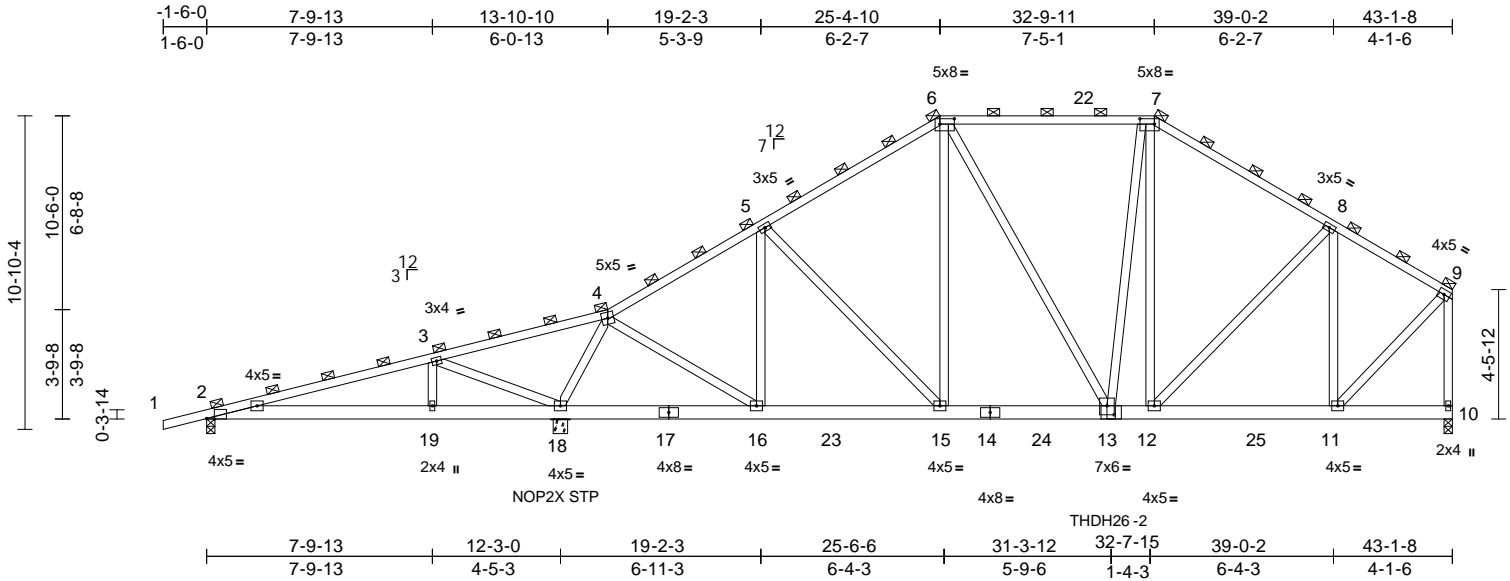
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Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	RENDEK RESIDENCE	T21322229
20-442-A1	T-15	Piggyback Base Girder	2	2	Job Reference (optional)	

Arnold Truss Mfg. LLC, Ocala, FL - 34475,

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Page: 1



Scale = 1:79.8

Plate Offsets (X, Y): [2:0-3-4,Edge], [6:0-6-0,0-2-4], [7:0-6-0,0-2-4], [13:0-3-0,0-3-12]

Loading	(psf)	Spacing	4-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.73	Vert(LL)	-0.04	13-15	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.13	Vert(CT)	-0.08	13-15	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.26	Horz(CT)	0.02	10	n/a	n/a		
BCDL	10.0	Code	FBC2017/TPI2014	Matrix-MS		Wind(LL)	0.03	13-15	>999	240	Weight: 629 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.1
BOT CHORD 2x6 SP M 26
WEBS 2x4 SP No.2

BRACING

TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end verticals
(Switched from sheeted: Spacing > 2-0-0).
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS

(size) 2=0-3-8, 10=0-3-8, 18=0-6-0
Max Horiz 2=527 (LC 7)
Max Uplift 2=199 (LC 23), 10=394 (LC 8), 18=509 (LC 8)
Max Grav 2=746 (LC 17), 10=2879 (LC 14), 18=4044 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/43, 2-3=384/227, 3-4=182/1531, 4-5=2391/417, 5-6=2601/575, 6-22=2341/608, 7-22=2341/608, 7-8=2700/603, 8-9=2041/393, 9-10=2829/432
BOT CHORD 2-19=290/400, 18-19=290/301, 17-18=263/316, 16-17=263/316, 16-23=282/2168, 15-23=282/2168, 14-15=253/2265, 14-24=253/2265, 13-24=253/2265, 12-13=238/2244, 12-25=134/1684, 11-25=134/1684, 10-11=103/100
WEBS 3-19=0/539, 3-18=1790/287, 4-18=3494/582, 4-16=163/2204, 5-16=907/263, 5-15=40/381, 6-15=13/434, 7-12=212/154, 8-12=152/868, 8-11=1454/325, 9-11=262/2364, 6-13=181/564, 7-13=110/903

NOTES

- 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: 2x6 - 2 rows staggered at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 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.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=43ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- All plates are 4x5 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 199 lb uplift at joint 2, 509 lb uplift at joint 18 and 394 lb uplift at joint 10.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Use USP THDH26-2 (With 22-16d nails into Girder & 8-16d nails into Truss) or equivalent at 31-3-12 from the left end to connect truss(es) to back face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-4=-108, 4-6=-108, 6-7=-108, 7-9=-108, 2-10=-40
Concentrated Loads (lb)
Vert: 13=-1049 (B)

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Joaquin Velez PE No.68182
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Date:
September 17,2020

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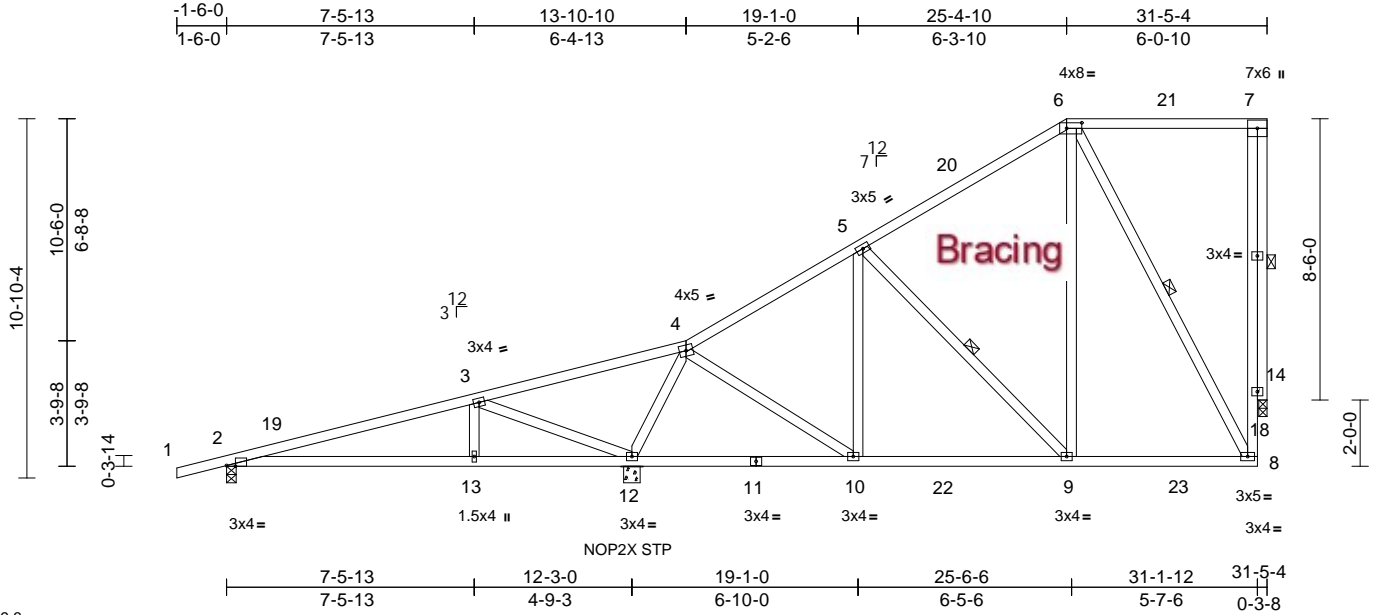
Job	Truss	Truss Type	Qty	Ply	RENDEK RESIDENCE	T21322230
20-442-A1	T-16	Piggyback Base	3	1	Job Reference (optional)	

Arnold Truss Mfg. LLC, Ocala, FL - 34475,

Run: 8.42 S Aug 25 2020 Print: 8.420 S Aug 25 2020 MiTek Industries, Inc. Wed Sep 16 14:10:16

Page: 1

ID:mwAGhBVx8KVJb1S84XeETKy3Gg-Mock Me



Scale = 1:69.6

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.39	Vert(LL)	-0.06	13-17	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.28	Vert(CT)	-0.14	13-17	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.45	Horz(CT)	-0.03	18	n/a	n/a		
BCDL	10.0	Code	FBC2017/TPI2014	Matrix-AS		Wind(LL)	0.04	13-17	>999	240	Weight: 204 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.1

BOT CHORD 2x4 SP No.1

WEBS 2x4 SP No.2

OTHERS 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals.

BOT CHORD Rigid ceiling directly applied.

WEBS 1 Row at midpt 5-9, 6-8, 7-18

REACTIONS

(size) 2=0-3-8, 12=0-6-0, 18=0-3-0

Max Horiz 2=268 (LC 12)

Max Uplift 2=-81 (LC 8), 12=-134 (LC 12), 18=-123 (LC 12)

Max Grav 2=389 (LC 1), 12=1400 (LC 1), 18=661 (LC 20)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/20, 2-19=-318/11, 3-19=-317/31, 3-4=-271/655, 4-5=-472/0, 5-20=-388/33, 6-20=-314/46, 6-21=-30/11, 7-21=-30/11, 8-18=-105/549, 7-18=-105/549

BOT CHORD 2-13=-180/287, 12-13=-180/287, 11-12=-163/9, 10-11=-163/9, 10-22=-161/417, 9-22=-161/417, 9-23=-106/300, 8-23=-106/300

WEBS 3-13=0/252, 3-12=-953/181, 4-12=-1049/209, 4-10=-73/623, 5-10=-189/122, 5-9=-213/85, 6-9=0/338, 6-8=-539/147, 7-18=-662/167

NOTES

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

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=31ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior (2) -1-6-0 to 1-7-12, Interior (1) 1-7-12 to 25-4-10, Exterior (2) 25-4-10 to 28-6-5, Interior (1) 28-6-5 to 31-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- All plates are 3x4 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Bearing at joint(s) 18 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 81 lb uplift at joint 2, 134 lb uplift at joint 12 and 123 lb uplift at joint 18.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

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Joaquin Velez PE No.68182
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Date:

September 17,2020

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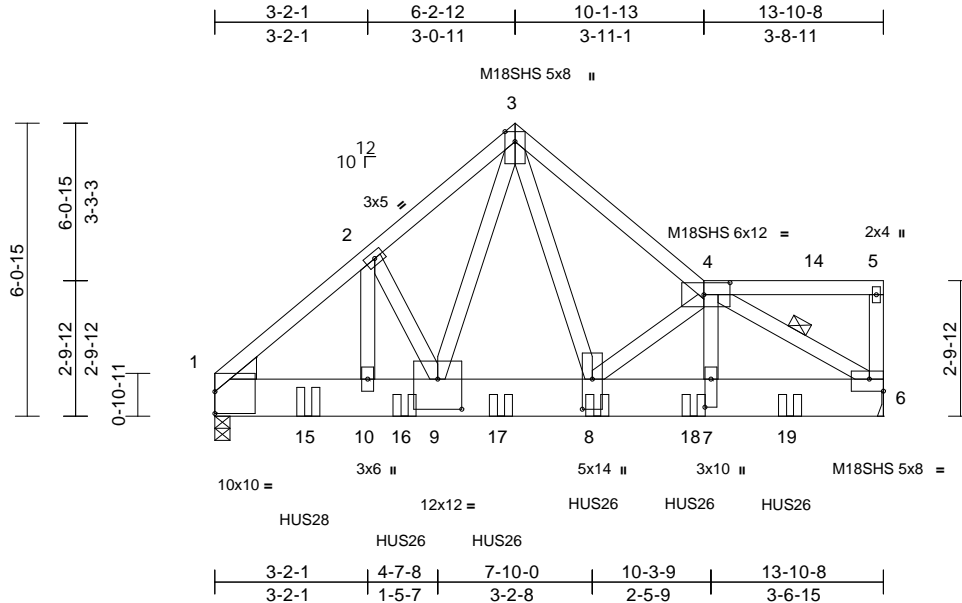
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Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	RENDEK RESIDENCE	T21322231
20-442-A1	T-17	Roof Special Girder	1	1	Job Reference (optional)	

Arnold Truss Mfg. LLC, Ocala, FL - 34475,

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Scale = 1:47.8

Plate Offsets (X, Y): [1:Edge,0-5-7], [4:0-6-8,0-3-0], [6:Edge,0-3-0], [7:0-7-0,0-1-8], [8:0-7-8,0-2-8], [9:0-6-0,0-7-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.54	Vert(LL)	-0.08	8	>999	360	MT20 244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.35	Vert(CT)	-0.15	8	>999	240	M18SHS 244/190
BCLL	0.0*	Rep Stress Incr	NO	WB	0.69	Horz(CT)	0.02	6	n/a	n/a	
BCDL	10.0	Code	FBC2017/TPI2014	Matrix-MS		Wind(LL)	0.06	8	>999	240	Weight: 120 lb FT = 20%

LUMBER

TOP CHORD 2x4 SP No.1
BOT CHORD 2x10 SP 2400F 2.0E
WEBS 2x4 SP No.2
WEDGE Left: 2x6 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-8-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

WEBS 1 Row at midpt 4-6

REACTIONS (size) 1=0-3-12, (req. 0-5-14), 6= Mechanical
Max Horiz 1=145 (LC 7)
Max Uplift 1=476 (LC 8), 6=485 (LC 8)
Max Grav 1=3730 (LC 1), 6=3784 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-4170/550, 2-3=-4055/592, 3-4=-4361/611, 4-14=-96/36, 5-14=-96/36, 5-6=-118/56
BOT CHORD 1-15=-422/3149, 10-15=-422/3149, 10-16=-422/3149, 9-16=-422/3149, 9-17=-314/2475, 8-17=-314/2475, 8-18=-533/4320, 7-18=-533/4320, 7-19=-536/4371, 6-19=-536/4371
WEBS 4-7=-76/845, 4-6=-5086/655, 2-10=-5/95, 2-9=-157/84, 3-9=-310/2224, 3-8=-399/3076, 4-8=-1386/233

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- WARNING: Required bearing size at joint(s) 1 greater than input bearing size.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 476 lb uplift at joint 1 and 485 lb uplift at joint 6.
- Use USP HUS28 (With 22-16d nails into Girder & 4-16d nails into Truss) or equivalent at 2-1-8 from the left end to connect truss(es) to front face of bottom chord.
- Use USP HUS26 (With 14-16d nails into Girder & 4-16d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 4-1-8 from the left end to 12-1-8 to connect truss(es) to front face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-3=-54, 3-4=-54, 4-5=-54, 6-11=-20
Concentrated Loads (lb)
Vert: 8=-1083 (F), 15=-1081 (F), 16=-1083 (F), 17=-1083 (F), 18=-1083 (F), 19=-1083 (F)

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Date:

September 17,2020

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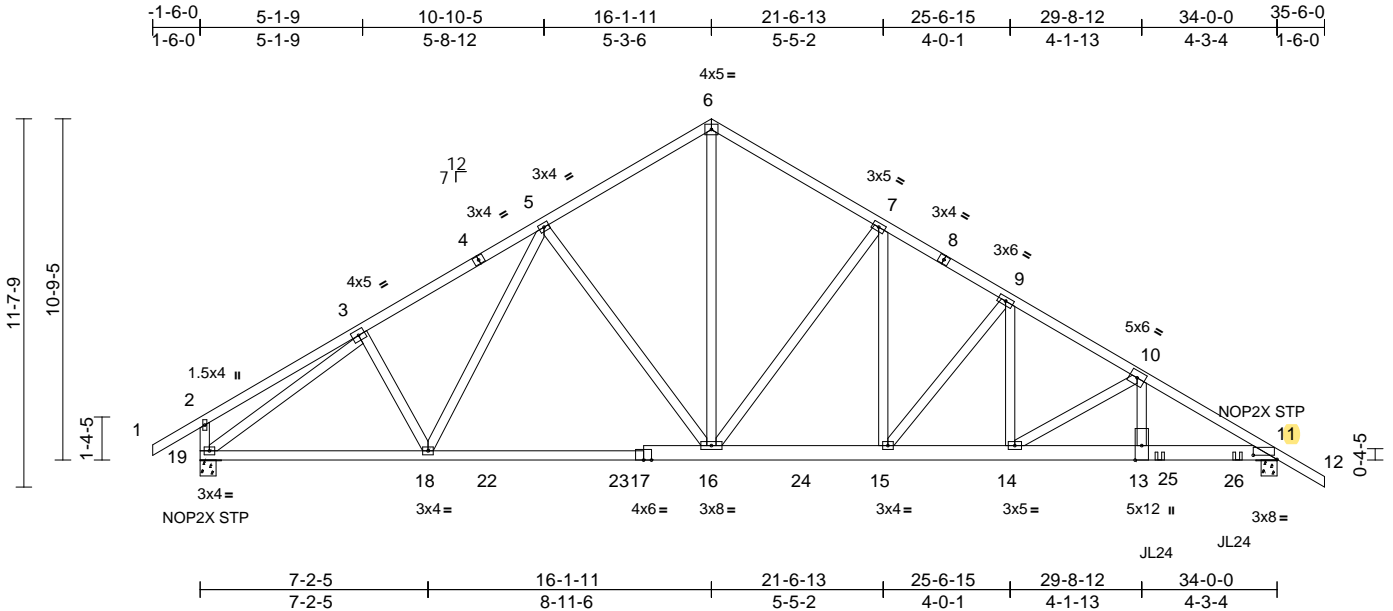
Job	Truss	Truss Type	Qty	Ply	RENDEK RESIDENCE	T21322232
20-442-A1	T-18	Common Girder	1	2	Job Reference (optional)	

Arnold Truss Mfg. LLC, Ocala, FL - 34475,

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Scale = 1:72.7

Plate Offsets (X, Y): [11:0-9-0,0-1-9]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.41	Vert(LL)	-0.11	13-14	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.43	Vert(CT)	-0.21	13-14	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.56	Horz(CT)	0.07	11	n/a	n/a		
BCDL	10.0	Code	FBC2017/TPI2014	Matrix-MS		Wind(LL)	0.08	13-14	>999	240	Weight: 472 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.1
BOT CHORD	2x4 SP No.1 *Except* 17-11:2x6 SP DSS
WEBS	2x4 SP No.2

BRACING

TOP CHORD	Structural wood sheathing directly applied or 3-11-13 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS	(size)	11=0-6-0, 19=0-6-0
	Max Horiz	19=-244 (LC 6)
	Max Uplift	11=-734 (LC 8), 19=-271 (LC 8)
	Max Grav	11=5596 (LC 1), 19=1894 (LC 1)

FORCES

TOP CHORD	(lb) - Maximum Compression/Maximum Tension
	1-2=0/45, 2-3=-229/94, 3-4=-2458/355, 4-5=-2355/367, 5-6=-2254/387, 6-7=-2252/384, 7-8=-3435/513, 8-9=-3534/498, 9-10=-5258/685, 10-11=-9777/1215, 11-12=0/41, 12-13=-308/148
BOT CHORD	18-19=-156/2113, 18-22=-114/2132, 22-23=-114/2132, 17-23=-114/2132, 16-17=-112/2138, 16-24=-226/3011, 15-24=-226/3011, 14-15=-440/4508, 13-14=-966/8429, 13-25=-966/8429, 25-26=-966/8429, 11-26=-966/8429
WEBS	3-19=-2397/249, 3-18=0/241, 5-18=-76/144, 5-16=-340/199, 6-16=-278/1940, 7-16=-1883/332, 10-13=-503/4370, 7-15=-225/1890, 9-15=-2358/337, 9-14=-270/2477, 10-14=-4556/611

NOTES

- 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: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc, Except member 10-13 2x4 - 2 rows staggered at 0-2-0 oc.
- 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.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=34ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 271 lb uplift at joint 19 and 734 lb uplift at joint 11.
- Use USP JL24 (With 4-10d nails into Girder & 2-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-5-8 oc max. starting at 30-3-9 from the left end to 32-9-1 to connect truss(es) to back face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 3764 lb down and 497 lb up at 29-8-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-2=-54, 2-6=-54, 6-12=-54, 11-19=-20
Concentrated Loads (lb)
Vert: 13=-3764 (B), 25=-534 (B), 26=-517 (B)

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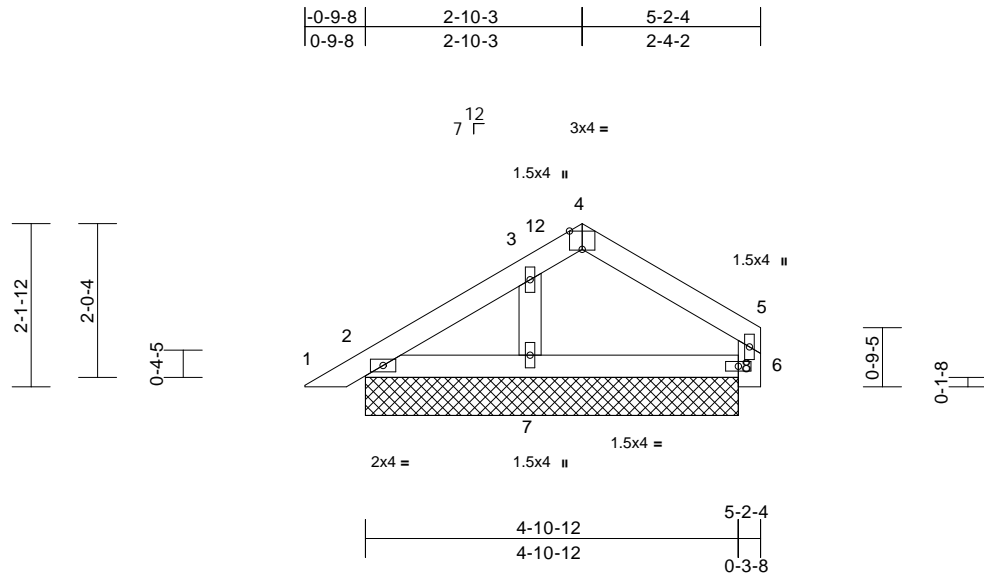
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Job	Truss	Truss Type	Qty	Ply	RENDEK RESIDENCE	T21322233
20-442-A1	T-19	Piggyback	5	1	Job Reference (optional)	

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Page: 1



Scale = 1:30.3

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.11	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	7.0	Lumber DOL	1.25	BC	0.07	Vert(CT)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	8	n/a	n/a	
BCDL	10.0	Code	FBC2017/TPI2014	Matrix-AS							Weight: 20 lb FT = 20%

LUMBER

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

BRACING

TOP CHORD	Structural wood sheathing directly applied, except end verticals.
BOT CHORD	Rigid ceiling directly applied.

REACTIONS

(size)	2=4-10-12, 6=4-10-12, 7=4-10-12, 8=4-10-12, 9=4-10-12
Max Horiz	2=51 (LC 11), 9=51 (LC 11)
Max Uplift	2=40 (LC 12), 6=20 (LC 12), 7=1 (LC 12), 9=40 (LC 12)
Max Grav	2=92 (LC 21), 6=84 (LC 18), 7=239 (LC 1), 9=92 (LC 21)

FORCES

(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/14, 2-3=-32/54, 3-12=-64/59, 4-12=-62/61, 4-5=-36/41, 6-8=0/0, 5-6=-67/56
BOT CHORD	2-7=-21/22, 6-7=-21/22
WEBS	3-7=-177/71

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior (2) 0-4-2 to 3-4-2, Interior (1) 3-4-2 to 3-8-9, Exterior (2) 3-8-9 to 5-10-14 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 40 lb uplift at joint 2, 20 lb uplift at joint 6, 1 lb uplift at joint 7 and 40 lb uplift at joint 2.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S)

Standard

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

September 17,2020

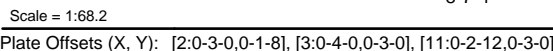
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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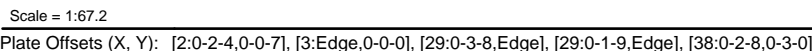
6904 Parke East Blvd.
Tampa, FL 33610

Arnold Truss Mfg. LLC, Ocala, FL - 34475, Run: 8.42 S Aug 25 2020 Print: 8.420 S Aug 25 2020 MiTek Industries, Inc. Wed Sep 16 14:10:17 Page: 1
ID: QlTY34NpaDRr8AxWXCwVVvwyms5 -Mock Me

LOAD CASE(S) Standard

September 17, 2020

Arnold Truss Mfg. LLC, Ocala, FL - 34475, Run: 8.41 E Jul 24 2020 Print: 8.410 E Jul 24 2020 MiTek Industries, Inc. Thu Sep 17 08:26:32 Page: 1
ID:qzazXEWOsBZDC8dFGzYb8vmhvB-K5CmsXx36nE8SHh vE5zvM3J0zxtS6083a?i6Cvcol5

[illegible]

- ## NOTES
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust)
 Vasd=101mph; TCFL=4.2psf; BCDL=6.0psf; h=25ft;
 B=45ft; L=34ft; eave=2ft; Cat. II; Exp B; Encl.,
 GCPI=0.18; MWFRS (directional) and C-C Corner (3)
 -1-6-0 to 1-10-13, Exterior (2) 1-10-13 to 16-1-11,
 Corner (3) 16-1-11 to 19-6-8, Exterior (2) 19-6-8 to
 34-0-0 zone; cantilever left and right exposed ; end
 vertical left and right exposed; C-C for members and
 forces & MWFRS for reactions shown; Lumber
 DOL=1.60 plate grip DOL=1.60

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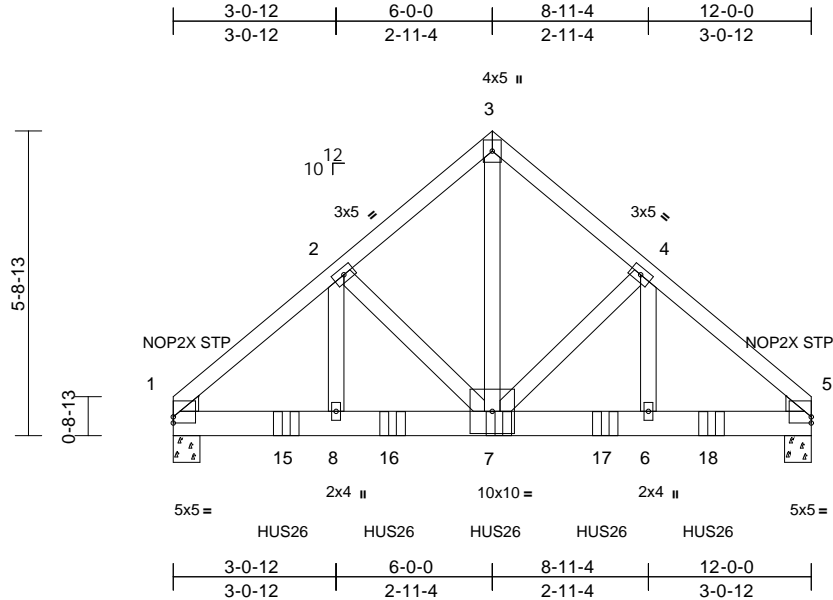
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6904 Parke East Blvd. Tampa FL 33610
Date: September 17,2020

Job	Truss	Truss Type	Qty	Ply	RENDEK RESIDENCE	T21322236
20-442-A1	T-22	Common Girder	1	2	Job Reference (optional)	

Arnold Truss Mfg. LLC, Ocala, FL - 34475,

Run: 8.42 S Aug 25 2020 Print: 8.420 S Aug 25 2020 MiTek Industries, Inc. Wed Sep 16 14:10:18
ID:RC0gWMdivYLG2ucFyOei10ymdlg-Mock Me

Page: 1



Scale = 1:43.3

Plate Offsets (X, Y): [1:Edge,0-1-6], [5:Edge,0-1-6]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.17	Vert(LL)	-0.03	7-8	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.20	Vert(CT)	-0.05	7-8	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.39	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code	FBC2017/TPI2014	Matrix-MS		Wind(LL)	0.02	7-8	>999	240	Weight: 158 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.1
BOT CHORD	2x6 SP M 26
WEBS	2x4 SP No.2
WEDGE	Left: 2x4 SP No.3 Right: 2x4 SP No.3

BRACING

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

REACTIONS

(size)	1=0-6-0, 5=0-6-0
Max Horiz	1=106 (LC 7)
Max Uplift	1=-359 (LC 8), 5=-309 (LC 8)
Max Grav	1=3142 (LC 1), 5=3363 (LC 15)

FORCES

	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=-3854/455, 2-3=-2892/369, 3-4=-2892/369, 4-5=-3979/393
BOT CHORD	1-15=-304/2933, 8-15=-304/2933, 8-16=-304/2933, 7-16=-304/2933, 7-17=-256/3000, 6-17=-256/3000, 6-18=-256/3000, 5-18=-256/3000
WEBS	2-8=-135/1199, 2-7=-968/190, 3-7=-405/3459, 4-7=-1142/124, 4-6=-49/1406

NOTES

- 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: 2x6 - 2 rows staggered at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 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.

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 359 lb uplift at joint 1 and 309 lb uplift at joint 5.
- Use USP HUS26 (With 14-16d nails into Girder & 6-16d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-1-8 from the left end to 10-1-8 to connect truss(es) to back face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-3=-54, 3-5=-54, 9-12=-20
Concentrated Loads (lb)
Vert: 7=-1078 (B), 15=-1078 (B), 16=-1078 (B), 17=-1176 (B), 18=-1176 (B)

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Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

September 17,2020

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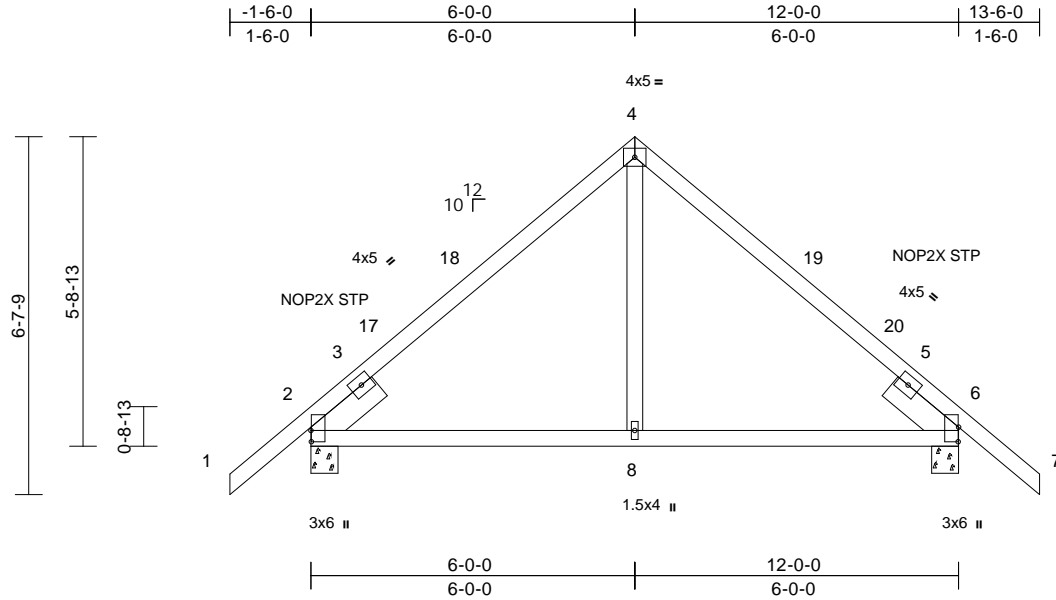
Job	Truss	Truss Type	Qty	Ply	RENDEK RESIDENCE	T21322237
20-442-A1	T-23	Common	1	1	Job Reference (optional)	

Arnold Truss Mfg. LLC, Ocala, FL - 34475,

Run: 8.42 S Aug 25 2020 Print: 8.420 S Aug 25 2020 MiTek Industries, Inc. Wed Sep 16 14:10:18

Page: 1

ID:qscu5rKiDulMayMZVppRwRyd2zcH-Mock Me



Scale = 1:42.7

Plate Offsets (X, Y): [2:0-2-8,0-0-2], [6:0-3-4,0-0-2]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.19	Vert(LL)	-0.03	8-11	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.22	Vert(CT)	-0.05	8-11	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.01	2	n/a	n/a		
BCDL	10.0	Code	FBC2017/TPI2014	Matrix-AS		Wind(LL)	0.03	8-11	>999	240	Weight: 62 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.1
BOT CHORD	2x4 SP No.1
WEBS	2x4 SP No.2
SLIDER	Left 2x6 SP No.2 -- 1-6-0, Right 2x6 SP No.2 -- 1-6-0

BRACING

TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	Rigid ceiling directly applied.

REACTIONS

(size)	2=0-6-0, 6=0-6-0
Max Horiz	2=132 (LC 11)
Max Uplift	2=-103 (LC 12), 6=-103 (LC 12)
Max Grav	2=525 (LC 1), 6=525 (LC 1)

FORCES

	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=0/52, 2-3=-297/0, 3-17=-436/91, 17-18=-364/101, 4-18=-361/117, 4-19=-361/117, 19-20=-364/101, 5-20=-436/91, 5-6=-270/0, 6-7=0/52
BOT CHORD	2-8=-55/295, 6-8=0/295
WEBS	4-8=0/252

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior (2) -1-6-0 to 1-6-0, Interior (1) 1-6-0 to 6-0-0, Exterior (2) 6-0-0 to 9-0-0, Interior (1) 9-0-0 to 13-6-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 103 lb uplift at joint 2 and 103 lb uplift at joint 6.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.

LOAD CASE(S) Standard

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MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
September 17,2020

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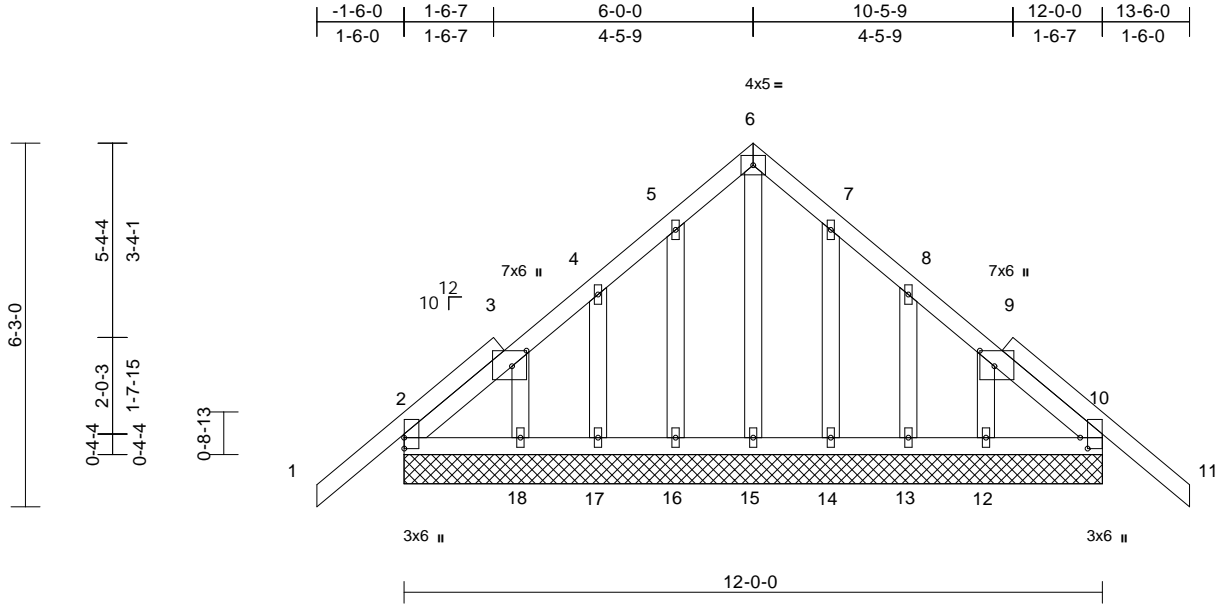
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	RENDEK RESIDENCE	T21322238
20-442-A1	T-24	Common Supported Gable	1	1	Job Reference (optional)	

Arnold Truss Mfg. LLC, Ocala, FL - 34475,

Run: 8.42 S Aug 25 2020 Print: 8.420 S Aug 25 2020 MiTek Industries, Inc. Wed Sep 16 14:10:18
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Page: 1



Scale = 1:39.6

Plate Offsets (X, Y): [2:Edge,0-0-1], [3:0-3-3,0-3-0], [9:0-3-3,0-3-0], [10:Edge,0-4-9]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.12	Vert(LL)	n/a	-	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.02	Vert(CT)	n/a	-	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	23	n/a		
BCDL	10.0	Code	FBC2017/TPI2014	Matrix-AS						Weight: 84 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.1

BOT CHORD 2x4 SP No.1

OTHERS 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied.

BOT CHORD Rigid ceiling directly applied.

REACTIONS

(size)	
2=12-0-0, 10=12-0-0, 12=12-0-0, 13=12-0-0, 14=12-0-0, 15=12-0-0, 16=12-0-0, 17=12-0-0, 18=12-0-0, 19=12-0-0, 23=12-0-0	
Max Horiz	2=124 (LC 11), 19=124 (LC 11)
Max Uplift	2=51 (LC 12), 10=51 (LC 12), 12=26 (LC 8), 13=44 (LC 12), 14=27 (LC 12), 16=27 (LC 12), 17=44 (LC 12), 18=29 (LC 9), 19=51 (LC 12), 23=51 (LC 12)
Max Grav	2=181 (LC 21), 10=181 (LC 22), 12=113 (LC 18), 13=102 (LC 18), 14=106 (LC 18), 15=97 (LC 1), 16=110 (LC 17), 17=102 (LC 21), 18=121 (LC 17), 19=181 (LC 21), 23=181 (LC 22)

FORCES

(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/52, 2-3=-77/75, 3-4=-59/54, 4-5=-77/66, 5-6=-115/113, 6-7=-114/113, 7-8=-77/66, 8-9=-31/30, 9-10=-56/56, 10-11=0/52
BOT CHORD	2-18=-72/140, 17-18=-72/140, 16-17=-72/140, 15-16=-72/140, 14-15=-72/140, 13-14=-72/140, 12-13=-72/140, 10-12=-72/140
WEBS	6-15=-89/69, 5-16=-83/63, 4-17=-91/79, 3-18=-124/78, 7-14=-80/63, 8-13=-94/81, 9-12=-127/79

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Corner (3) -1-6-0 to 1-6-0, Exterior (2) 1-6-0 to 6-0-0, Corner (3) 6-0-0 to 9-0-0, Exterior (2) 9-0-0 to 13-6-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Solid blocking is required on both sides of the truss at joint(s), 2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 51 lb uplift at joint 2, 51 lb uplift at joint 10, 27 lb uplift at joint 16, 44 lb uplift at joint 17, 29 lb uplift at joint 18, 27 lb uplift at joint 14, 44 lb uplift at joint 13, 26 lb uplift at joint 12, 51 lb uplift at joint 2 and 51 lb uplift at joint 10.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

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MiTek USA, Inc. FL Cert 6634
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Date:
September 17,2020

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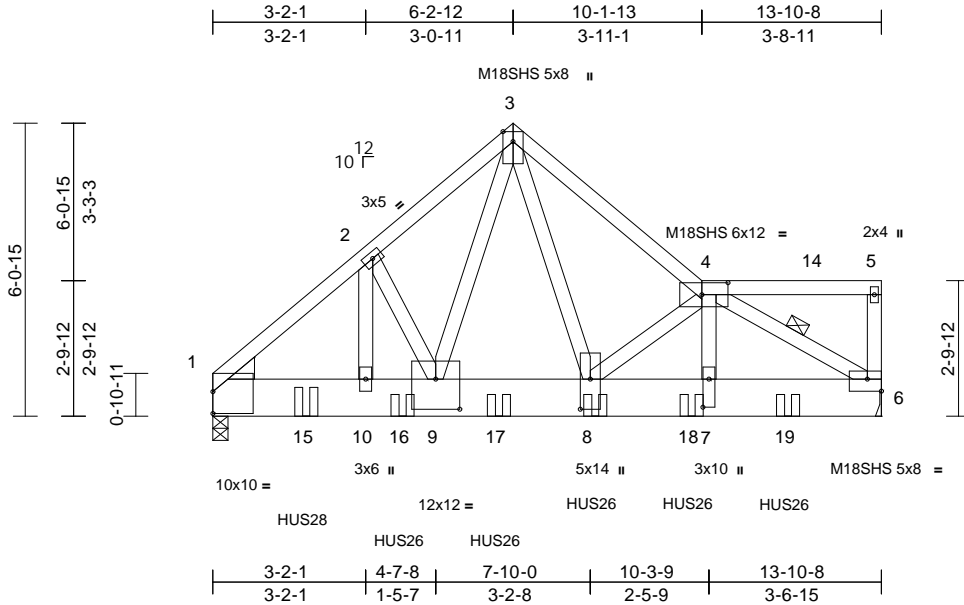
6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	RENDEK RESIDENCE	T21322239
20-442-A1	T-25	Roof Special Girder	1	1	Job Reference (optional)	

Arnold Truss Mfg. LLC, Ocala, FL - 34475,

Run: 8.42 S Aug 25 2020 Print: 8.420 S Aug 25 2020 MiTek Industries, Inc. Wed Sep 16 14:10:19
ID:0SeBBUXkAQkwviMC6sBoCDyd2hB-Mock Me

Page: 1



Scale = 1:47.8

Plate Offsets (X, Y): [1:Edge,0-5-7], [4:0-6-8,0-3-0], [6:Edge,0-3-0], [7:0-7-0,0-1-8], [8:0-7-8,0-2-8], [9:0-6-0,0-7-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.54	Vert(LL)	-0.08	8	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.35	Vert(CT)	-0.15	8	>999	240	M18SHS	244/190
BCLL	0.0*	Rep Stress Incr	NO	WB	0.69	Horz(CT)	0.02	6	n/a	n/a		
BCDL	10.0	Code	FBC2017/TPI2014	Matrix-MS		Wind(LL)	0.06	8	>999	240	Weight: 120 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.1
BOT CHORD 2x10 SP 2400F 2.0E
WEBS 2x4 SP No.2
WEDGE Left: 2x6 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-8-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

WEBS 1 Row at midpt 4-6

REACTIONS (size) 1=0-3-12, (req. 0-5-14), 6= Mechanical
Max Horiz 1=145 (LC 7)
Max Uplift 1=476 (LC 8), 6=485 (LC 8)
Max Grav 1=3730 (LC 1), 6=3784 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-4170/550, 2-3=-4055/592,
3-4=-4361/611, 4-14=-96/36, 5-14=-96/36,
5-6=-118/56

BOT CHORD 1-15=-422/3149, 10-15=-422/3149,
10-16=-422/3149, 9-16=-422/3149,
9-17=-314/2475, 8-17=-314/2475,
8-18=-533/4320, 7-18=-533/4320,
7-19=-536/4371, 6-19=-536/4371
WEBS 4-7=-76/845, 4-6=-5086/655, 2-10=-5/95,
2-9=-157/84, 3-9=-310/2224, 3-8=-399/3076,
4-8=-1386/233

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl.,
GCpi=0.18; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed;
Lumber DOL=1.60 plate grip DOL=1.60

- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- WARNING: Required bearing size at joint(s) 1 greater than input bearing size.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 476 lb uplift at joint 1 and 485 lb uplift at joint 6.
- Use USP HUS28 (With 22-16d nails into Girder & 4-16d nails into Truss) or equivalent at 2-1-8 from the left end to connect truss(es) to front face of bottom chord.
- Use USP HUS26 (With 14-16d nails into Girder & 4-16d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 4-1-8 from the left end to 12-1-8 to connect truss(es) to front face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-3=-54, 3-4=-54, 4-5=-54, 6-11=-20
Concentrated Loads (lb)
Vert: 8=-1083 (F), 15=-1081 (F), 16=-1083 (F),
17=-1083 (F), 18=-1083 (F), 19=-1083 (F)

SUPPLEMENTARY BEARING PLATES, SPECIAL ANCHORAGE, OR OTHER MEANS TO ALLOW FOR THE MINIMUM REQUIRED SUPPORT WIDTH (SUCH AS COLUMN CAPS, BEARING BLOCKS, ETC.) ARE THE RESPONSIBILITY OF THE TRUSS MANUFACTURER OR THE BUILDING DESIGNER.

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Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

September 17,2020

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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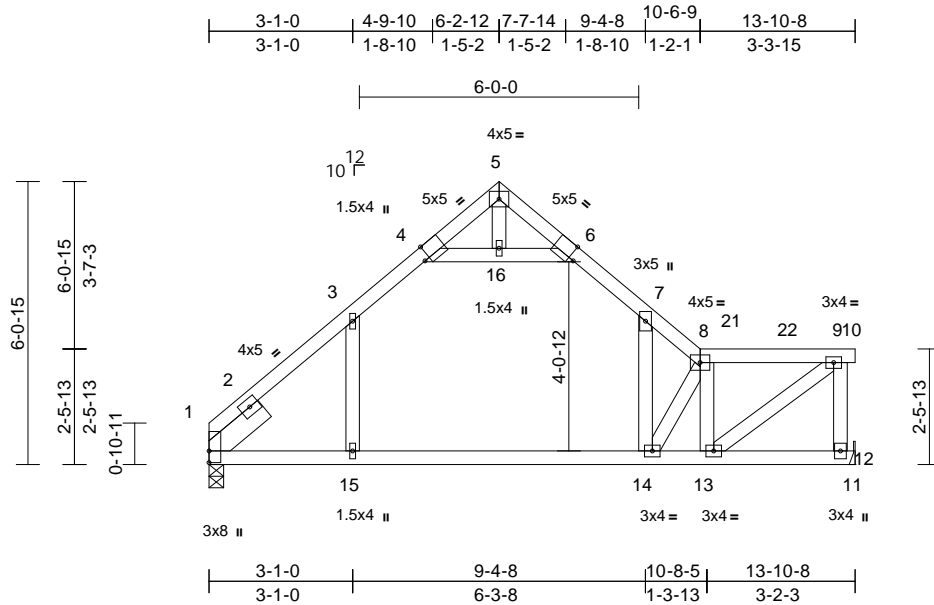
Job	Truss	Truss Type	Qty	Ply	RENDEK RESIDENCE	T21322240
20-442-A1	T-26	Attic	1	1	Job Reference (optional)	

Arnold Truss Mfg. LLC, Ocala, FL - 34475,

Run: 8.42 S Aug 25 2020 Print: 8.420 S Aug 25 2020 MiTek Industries, Inc. Wed Sep 16 14:10:19

Page: 1

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Scale = 1:49.5

Plate Offsets (X, Y): [1:Edge,0-0-0], [4:0-1-7,Edge], [6:0-1-7,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.51	Vert(LL)	-0.11	14-15	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.49	Vert(CT)	-0.20	14-15	>817	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.16	Horz(CT)	-0.01	1	n/a	n/a		
BCDL	10.0	Code	FBC2017/TPI2014	Matrix-AS		Wind(LL)	0.05	14-15	>999	240	Weight: 79 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.1
 BOT CHORD 2x4 SP No.1
 WEBS 2x4 SP No.2
 SLIDER Left 2x6 SP No.2 -- 1-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals.
 BOT CHORD Rigid ceiling directly applied.

REACTIONS

(size) 1=0-3-12, 12= Mechanical
 Max Horiz 1=146 (LC 11)
 Max Uplift 1=36 (LC 12), 12=48 (LC 12)
 Max Grav 1=580 (LC 18), 12=582 (LC 18)

FORCES

(lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=-160/67, 2-3=-777/87, 3-4=-494/141, 4-5=-17/103, 5-6=0/124, 6-7=-468/126, 7-8=-846/112, 8-21=-617/113, 21-22=-617/113, 9-22=-617/113, 9-10=0/0, 9-12=-526/135
 BOT CHORD 1-15=-124/529, 14-15=-100/529, 13-14=-127/654, 12-13=-30/44, 11-12=0/0
 WEBS 3-15=0/347, 7-14=0/554, 8-14=-411/122, 8-13=-546/78, 9-13=-115/737, 4-16=-627/160, 6-16=-627/160, 5-16=-2/13

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior (2) 0-2-4 to 3-3-4, Interior (1) 3-3-4 to 6-5-0, Exterior (2) 6-5-0 to 9-6-12, Interior (1) 9-6-12 to 14-0-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bottom chord live load (20.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 14-15
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint 1 and 48 lb uplift at joint 12.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.

LOAD CASE(S) Standard

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

September 17,2020

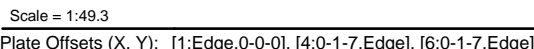
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LUMBER	
TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2
SLIDER	Left 2x6 SP No.2 -- 1-6-0
BRACING	
TOP CHORD	Structural wood sheathing directly applied, except end verticals.
BOT CHORD	Rigid ceiling directly applied.
REACTIONS	(size) 1=0-3-12, 10= Mechanical
	Max Horiz 1=127 (LC 11)
	Max Uplift 1=38 (LC 12), 10=-41 (LC 12)
	Max Grav 1=585 (LC 18), 10=560 (LC 19)
FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=-146/110, 2-3=-806/89, 3-4=-506/141, 4-5=0/127, 5-6=-1/149, 6-7=-481/132, 7-8=-795/87, 8-9=-953/151, 9-10=-498/92
BOT CHORD	1-13=-64/544, 12-13=-37/544, 11-12=-172/1040, 10-11=-14/67
WEBS	3-13=0/370, 7-12=0/365, 8-12=-615/159, 8-11=-554/96, 9-11=-161/1034, 4-14=-667/168, 6-14=-667/168, 5-14=-3/151

- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 6) Bottom chord live load (20.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 12-13
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 38 lb uplift at joint 1 and 41 lb uplift at joint 10.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE

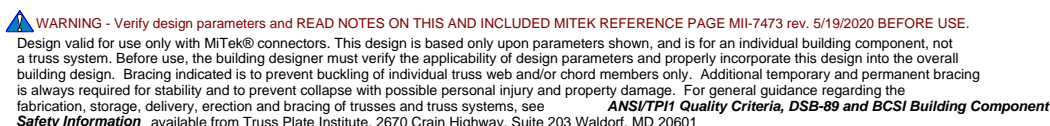
LOAD CASE(S) Standard

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust)
 Vasd=101mph; TCDF=4.2psf; BCDF=6.0psf; h=25ft;
 B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl.,
 GCp=0.18; MWFRS (directional) and C-C Exterior (2
 0-2-4 to 3-3-4, Interior (1) 3-3-4 to 6-5-0, Exterior (2)
 6-5-0 to 9-6-12, Interior (1) 9-6-12 to 13-11-0 zone;
 cantilever left and right exposed ; end vertical left and
 right exposed; C-C for members and forces & MWFRS
 for reactions shown; Lumber DOL=1.60 plate grip
 DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.

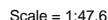
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6904 Parke East Blvd. Tampa FL 33610
Date:

September 17, 2020



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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.35	Vert(LL)	-0.09	10-11	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.47	Vert(CT)	-0.17	10-11	>909	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.02	1	n/a	n/a		
BCDL	10.0	Code	FBC2017/TPI2014	Matrix-MS		Wind(LL)	-0.05	10	>999	240	Weight: 66 lb	FT = 20%

FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=-151/59, 2-3=-703/81, 3-4=-439/137, 4-5=-16/97, 5-6=-12/101, 6-7=-434/136, 7-8=-638/81, 8-9=-188/66
BOT CHORD	1-11=-37/467, 10-11=0/467, 9-10=0/467
WEBS	7-10=0/321, 3-11=0/327, 4-12=536/163, 6-12=536/163, 5-12=3/11

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust)
 Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft;
 B=45ft; L=24ft; eave=4ft. Cat. II; Exp B; Encl.,
 GCpi=0.18; MWFRS (directional) and C-C Exterior (2)
 0-2-4 to 3-3-4, Interior (1) 3-3-4 to 6-5-0, Exterior (2)
 6-5-0 to 9-6-12, Interior (1) 9-6-12 to 12-10-0 zone;
 cantilever left and right exposed ; end vertical left and
 right exposed; C-C for members and forces & MWFRS
 for reactions shown; Lumber DOL=1.60 plate grip
 DOL=1.60
- 3) All plates are MT20 plates unless otherwise indicated.

- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 6) Bottom chord live load (20.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 10-11
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 34 lb uplift at joint 1 and 35 lb uplift at joint 9.
- 8) ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE

LOAD CASE(S) Standard

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6904 Parke East Blvd. Tampa FL 33610
Date:

September 17, 2020



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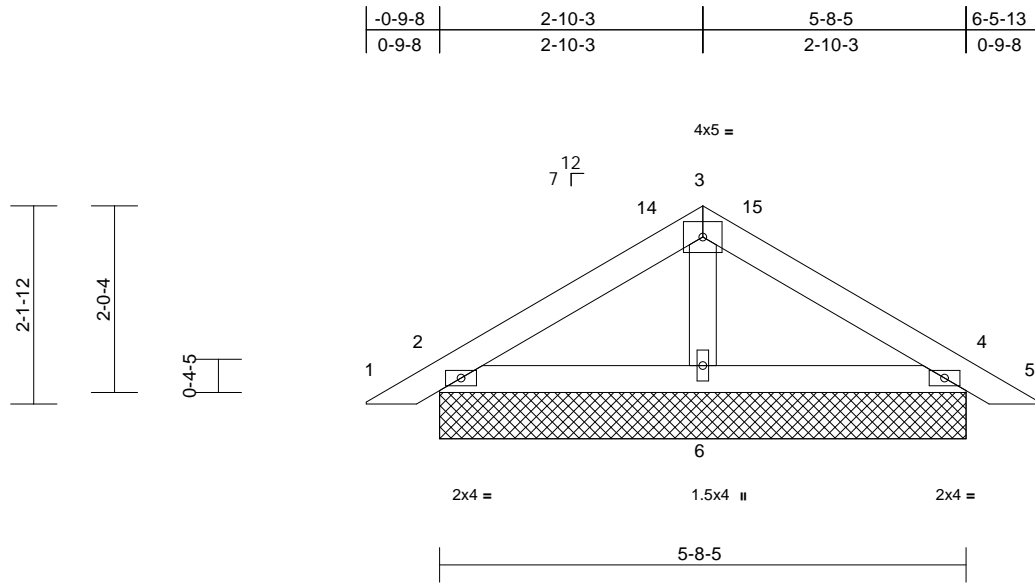
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Job	Truss	Truss Type	Qty	Ply	RENDEK RESIDENCE	T21322243
20-442-A1	T-29	Piggyback	1	1	Job Reference (optional)	

Arnold Truss Mfg. LLC, Ocala, FL - 34475,

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Page: 1



Scale = 1:24.9

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.07	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.09	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.01	0.00	11	n/a	n/a		
BCDL	10.0	Code	FBC2017/TPI2014	Matrix-AS						Weight: 23 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS

(size) 2=5-8-5, 4=5-8-5, 6=5-8-5,
7=5-8-5, 11=5-8-5
Max Horiz 2=-39 (LC 10), 7=-39 (LC 10)
Max Uplift 2=-43 (LC 12), 4=-43 (LC 12),
7=-43 (LC 12), 11=-43 (LC 12)
Max Grav 2=141 (LC 1), 4=141 (LC 1), 6=195
(LC 1), 7=141 (LC 1), 11=141 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/14, 2-14=-69/45, 3-14=-46/49,
3-15=-47/50, 4-15=-69/47, 4-5=0/14
BOT CHORD 2-6=-3/37, 4-6=-1/36
WEBS 3-6=-87/26

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl.,
GCpi=0.18; MWFRS (directional) and C-C Exterior (2)
0-4-2 to 3-4-2, Interior (1) 3-4-2 to 3-8-9, Exterior (2)
3-8-9 to 6-6-11, Interior (1) 6-6-11 to 7-0-15 zone;
cantilever left and right exposed; end vertical left and
right exposed; C-C for members and forces & MWFRS
for reactions shown; Lumber DOL=1.60 plate grip
DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.

- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 43 lb uplift at joint 2, 43 lb uplift at joint 4, 43 lb uplift at joint 2 and 43 lb uplift at joint 4.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

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6904 Parke East Blvd. Tampa FL 33610
Date:

September 17,2020

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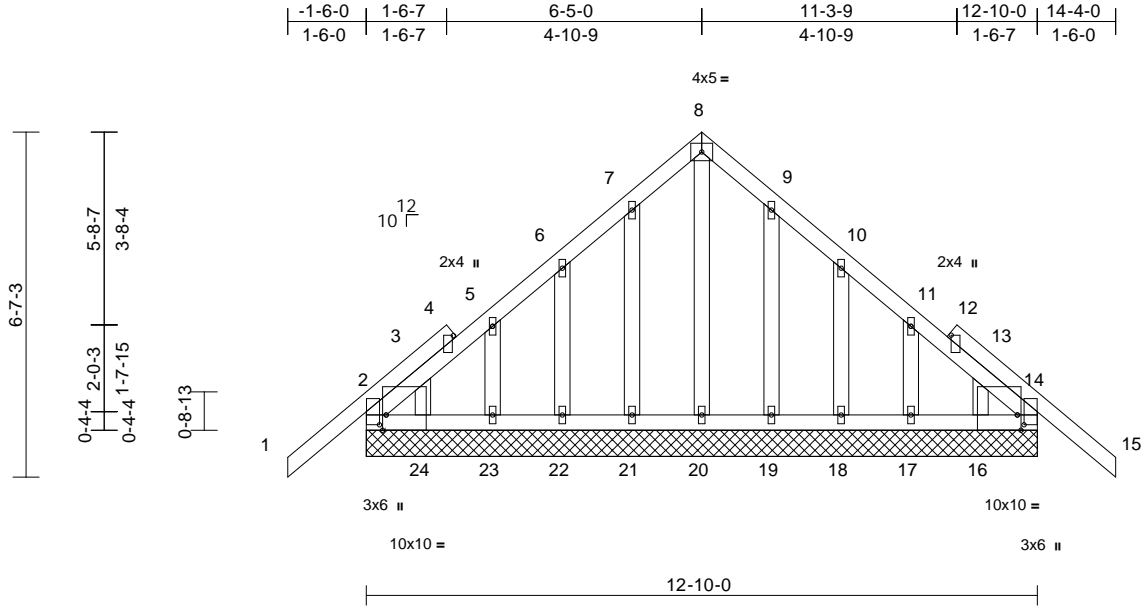
Job	Truss	Truss Type	Qty	Ply	RENDEK RESIDENCE	T21322244
20-442-A1	T-30	Common Supported Gable	1	1	Job Reference (optional)	

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Scale = 1:44.1

Plate Offsets (X, Y): [2:Edge,0-4-9], [5:0-2-1,0-9-4], [11:0-2-1,0-9-4], [14:Edge,0-4-9], [16:0-0-13,Edge], [24:0-0-13,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.11	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	7.0	Lumber DOL	1.25	BC	0.02	Vert(CT)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	25	n/a	n/a	
BCDL	10.0	Code	FBC2017/TPI2014	Matrix-AS							
										Weight: 92 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS

All bearings 12-10-0.
(lb) - Max Horiz 2=132 (LC 11), 29=132 (LC 11)
Max Uplift All uplift 100 (lb) or less at joint(s)
2, 14, 16, 17, 18, 19, 21, 22, 23,
24, 25, 29
Max Grav All reactions 250 (lb) or less at joint
(s) 2, 14, 16, 17, 18, 19, 20, 21, 22,
23, 24, 25, 29

FORCES

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

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft;
B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Encl.,
GCpi=0.18; MWFRS (directional) and C-C Corner (3)
-1-6-0 to 1-6-0, Exterior (2) 1-6-0 to 6-5-0, Corner (3)
6-5-0 to 9-5-0, Exterior (2) 9-5-0 to 14-4-0 zone;
cantilever left and right exposed; end vertical left and
right exposed; C-C for members and forces & MWFRS
for reactions shown; Lumber DOL=1.60 plate grip
DOL=1.60
- Truss designed for wind loads in the plane of the truss
only. For studs exposed to wind (normal to the face),
see Standard Industry Gable End Details as applicable,
or consult qualified building designer as per ANSI/TPI 1.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 1-4-0 oc.

- This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.
- Solid blocking is required on both sides of the truss at
joint(s), 2.
- Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 100 lb uplift at
joint(s) 14, 2, 19, 18, 17, 16, 21, 22, 23, 24, 14, 2.
- Beveled plate or shim required to provide full bearing
surface with truss chord at joint(s) 14, 25.
- This truss design requires that a minimum of 7/16"
structural wood sheathing be applied directly to the top
chord and 1/2" gypsum sheetrock be applied directly to
the bottom chord.

LOAD CASE(S)

Standard

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6904 Parke East Blvd. Tampa FL 33610
Date:

September 17,2020

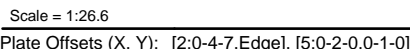
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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Arnold Truss Mfg. LLC, Ocala, FL - 34475, Run: 8.41 E Jul 24 2020 Print: 8.410 E Jul 24 2020 MiTek Industries, Inc. Thu Sep 17 08:29:43 Page: 1
ID:tt\$4v8BkJxqlmtvkoQbRbycoFB-ErFzvrFt8Tl2Itenibr0m8eTvPy4miV1F omUJeycoF6



LUMBER		6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 182 lb uplift at joint 2 and 56 lb uplift at joint 9.
TOP CHORD	2x4 SP No.1	LOAD CASE(S) Standard
BOT CHORD	2x6 SP No.2	
WEBS	2x4 SP No.2	

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

Max Horiz 2=74 (LC 4)
Max Uplift 2=-182 (LC 4), 9=-56 (LC 4)

TOP CHORD 2-3=-635/83
BOT CHORD 2-6=-109/619, 6-9=-109/619
WEBS 3-9=-607/105, 4-9=-269/56

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust)
Vasd=101mph; TC=4.2psf; BCDL=6.0psf; h=25ft;
B=45ft; L=24ft; eadL=4ft; Cat. II; Exp B; Encl.,
GCpi=0.18; MWFRS (directional); cantilever left and
right exposed ; end vertical left and right exposed;
Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.
- 4) Bearing at joint(s) 9 considers parallel to grain value
using ANSI/TPI 1 angle to grain formula. Building
designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to
bearing plate at joint(s) 9.

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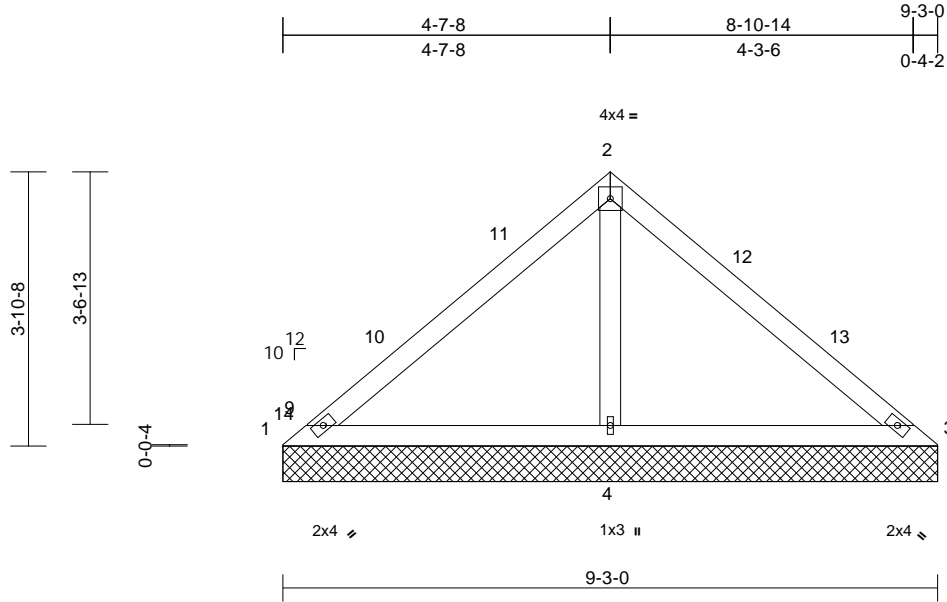
Job	Truss	Truss Type	Qty	Ply	RENDEK RESIDENCE	T21322246
20-442-A1	V1	Valley	1	1	Job Reference (optional)	

Arnold Truss Mfg. LLC, Ocala, FL - 34475,

Run: 8.42 S Aug 25 2020 Print: 8.420 S Aug 25 2020 MiTek Industries, Inc. Wed Sep 16 14:10:20

Page: 1

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Scale = 1:32.6

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.18	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.17	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.10	Horiz(TL)	0.00	3	n/a		
BCDL	10.0	Code	FBC2017/TPI2014	Matrix-AS						Weight: 35 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS

(size) 1=9-3-0, 3=9-3-0, 4=9-3-0
Max Horiz 1=76 (LC 11)
Max Uplift 1=21 (LC 22), 3=15 (LC 21),
4=103 (LC 12)
Max Grav 1=58 (LC 21), 3=76 (LC 22), 4=597
(LC 1)

FORCES

(lb) - Maximum Compression/Maximum
Tension
TOP CHORD 1-9=-66/49, 1-9=-64/52, 1-10=-75/166,
10-11=-65/173, 2-11=-61/239, 2-12=-63/239,
12-13=-65/174, 3-13=-75/166
BOT CHORD 1-14=-69/63, 1-14=-66/65, 1-4=-193/123,
3-4=-193/123
WEBS 2-4=-448/201

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl.,
GCpi=0.18; MWFRS (directional) and C-C Exterior (2)
0-4-13 to 3-4-13, Interior (1) 3-4-13 to 4-7-13, Exterior
(2) 4-7-13 to 7-7-13, Interior (1) 7-7-13 to 9-3-5 zone;
cantilever left and right exposed; end vertical left and
right exposed; C-C for members and forces & MWFRS
for reactions shown; Lumber DOL=1.60 plate grip
DOL=1.60
- Truss designed for wind loads in the plane of the truss
only. For studs exposed to wind (normal to the face),
see Standard Industry Gable End Details as applicable,
or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.

- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.
- Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 21 lb uplift at joint
1, 15 lb uplift at joint 3 and 103 lb uplift at joint 4.
- This truss design requires that a minimum of 7/16"
structural wood sheathing be applied directly to the top
chord and 1/2" gypsum sheetrock be applied directly to
the bottom chord.

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September 17,2020

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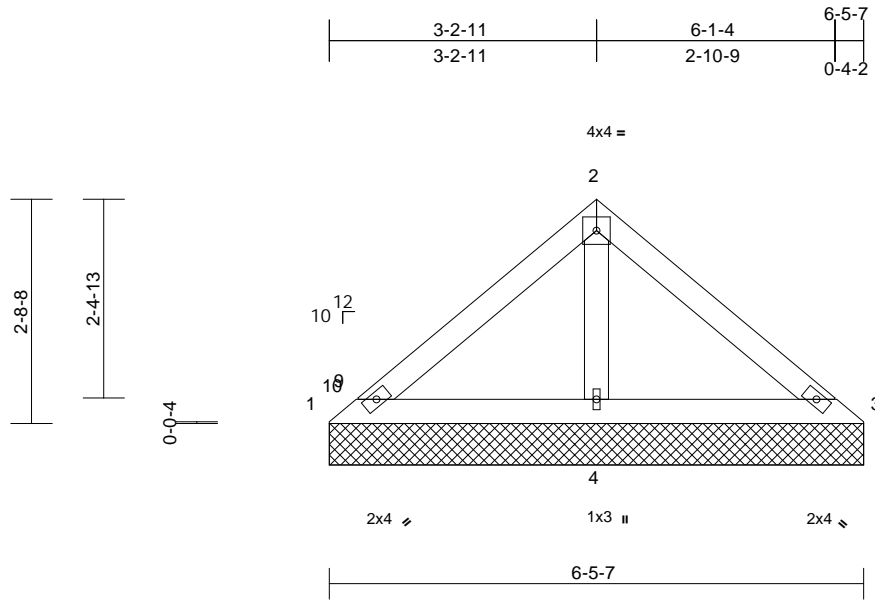
Job	Truss	Truss Type	Qty	Ply	RENDEK RESIDENCE	T21322247
20-442-A1	V2	Valley	1	1	Job Reference (optional)	

Arnold Truss Mfg. LLC, Ocala, FL - 34475,

Run: 8.42 S Aug 25 2020 Print: 8.420 S Aug 25 2020 MiTek Industries, Inc. Wed Sep 16 14:10:21

Page: 1

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Scale = 1:27.8

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.10	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.11	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.04	Horiz(TL)	0.00	3	n/a		
BCDL	10.0	Code	FBC2017/TPI2014	Matrix-AS						Weight: 24 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS

(size) 1=6-5-7, 3=6-5-7, 4=6-5-7
Max Horiz 1=51 (LC 11)
Max Uplift 1=6 (LC 22), 4=65 (LC 12)
Max Grav 1=45 (LC 21), 3=64 (LC 22), 4=388 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-9=-42/26, 1-9=-33/29, 1-2=-48/139,
2-3=-48/139

BOT CHORD 1-10=-41/47, 1-10=-39/48, 1-4=-132/99,
3-4=-132/99

WEBS 2-4=-263/124

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl.,
GCpi=0.18; MWFRS (directional) and C-C Exterior (2)
zone; cantilever left and right exposed; end vertical left
and right exposed; C-C for members and forces &
MWFRS for reactions shown; Lumber DOL=1.60 plate
grip DOL=1.60
- 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) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 4-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.

- 7) * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 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 6 lb uplift at joint 1
and 65 lb uplift at joint 4.
- 9) This truss design requires that a minimum of 7/16"
structural wood sheathing be applied directly to the top
chord and 1/2" gypsum sheetrock be applied directly to
the bottom chord.

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September 17,2020

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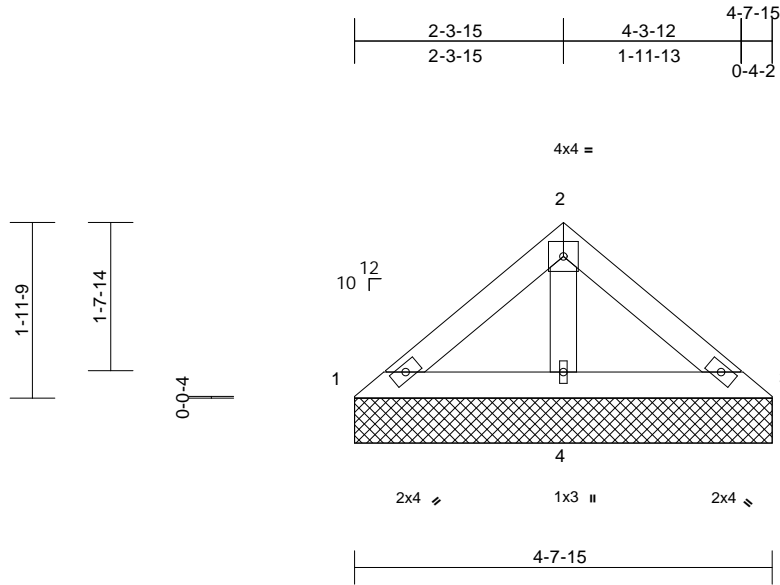
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Job	Truss	Truss Type	Qty	Ply	RENDEK RESIDENCE	T21322248
20-442-A1	V3	Valley	1	1	Job Reference (optional)	

Arnold Truss Mfg. LLC, Ocala, FL - 34475,

Run: 8.42 S Aug 25 2020 Print: 8.420 S Aug 25 2020 MiTek Industries, Inc. Wed Sep 16 14:10:21
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Page: 1



Scale = 1:25.7

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.04	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.06	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	3	n/a		
BCDL	10.0	Code	FBC2017/TPI2014	Matrix-AS						Weight: 17 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS

(size) 1=4-7-15, 3=4-7-15, 4=4-7-15
Max Horiz 1=37 (LC 10)
Max Uplift 1=2 (LC 12), 3=2 (LC 12), 4=36 (LC 12)
Max Grav 1=56 (LC 21), 3=56 (LC 22), 4=254 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-50/77, 2-3=-16/75
BOT CHORD 1-4=-74/59, 3-4=-74/59
WEBS 2-4=-153/63

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl.,
GCpi=0.18; MWFRS (directional) and C-C Exterior (2)
zone; cantilever left and right exposed; end vertical left
and right exposed; C-C for members and forces &
MWFRS for reactions shown; Lumber DOL=1.60 plate
grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2 lb uplift at joint 1, 2 lb uplift at joint 3 and 36 lb uplift at joint 4.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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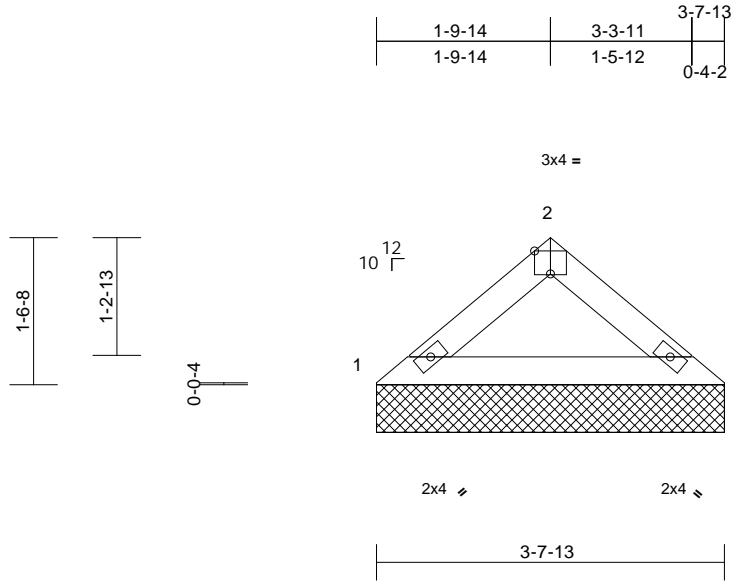
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Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	RENDEK RESIDENCE	T21322249
20-442-A1	V4	Valley	1	1	Job Reference (optional)	

Arnold Truss Mfg. LLC, Ocala, FL - 34475,

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Page: 1



Scale = 1:24.2

Plate Offsets (X, Y): [2:0-2-0,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	7.0	Lumber DOL	1.25	BC	0.07	Vert(TL)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a	
BCDL	10.0	Code	FBC2017/TPI2014	Matrix-MP							Weight: 11 lb FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-7-13 oc purlins.

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

REACTIONS

(size) 1=3-7-13, 3=3-7-13

Max Horiz 1=-29 (LC 10)

Max Uplift 1=-15 (LC 12), 3=-15 (LC 12)

Max Grav 1=135 (LC 1), 3=135 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-179/51, 2-3=-100/40

BOT CHORD 1-3=-30/136

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl.,
GCpi=0.18; MWFRS (directional) and C-C Exterior (2)
zone; cantilever left and right exposed; end vertical left
and right exposed; C-C for members and forces &
MWFRS for reactions shown; Lumber DOL=1.60 plate
grip DOL=1.60
- 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) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 4-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 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 15 lb uplift at joint 1 and 15 lb uplift at joint 3.

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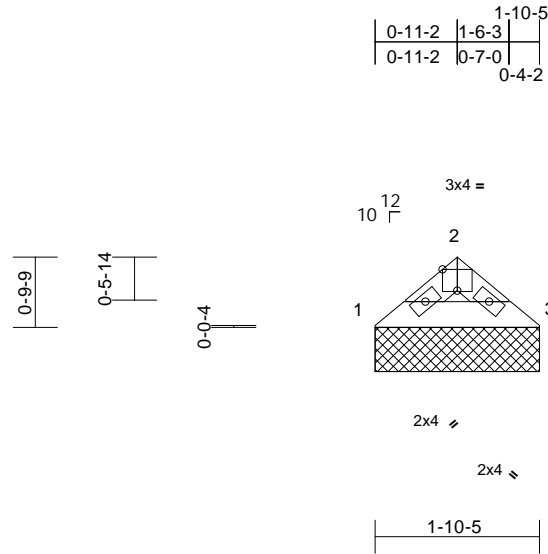
Job	Truss	Truss Type	Qty	Ply	RENDEK RESIDENCE	T21322250
20-442-A1	V5	Valley	1	1	Job Reference (optional)	

Arnold Truss Mfg. LLC, Ocala, FL - 34475,

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Page: 1

ID:AepZ7nHj0Xkr1RG24Qr6vymhaq-Mock Me



Scale = 1:26.1

Plate Offsets (X, Y): [2:0-2-0,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.01	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	7.0	Lumber DOL	1.25	BC	0.03	Vert(TL)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a	
BCDL	10.0	Code	FBC2017/TPI2014	Matrix-MP							Weight: 5 lb FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 1-10-5 oc purlins.

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

REACTIONS

(size) 1=1-10-5, 3=1-10-5

Max Horiz 1=13 (LC 11)

Max Uplift 1=8 (LC 12), 3=8 (LC 12)

Max Grav 1=69 (LC 1), 3=69 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-79/23, 2-3=-49/19

BOT CHORD 1-3=-9/59

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 8 lb uplift at joint 1 and 8 lb uplift at joint 3.

LOAD CASE(S) Standard

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Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

September 17,2020

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



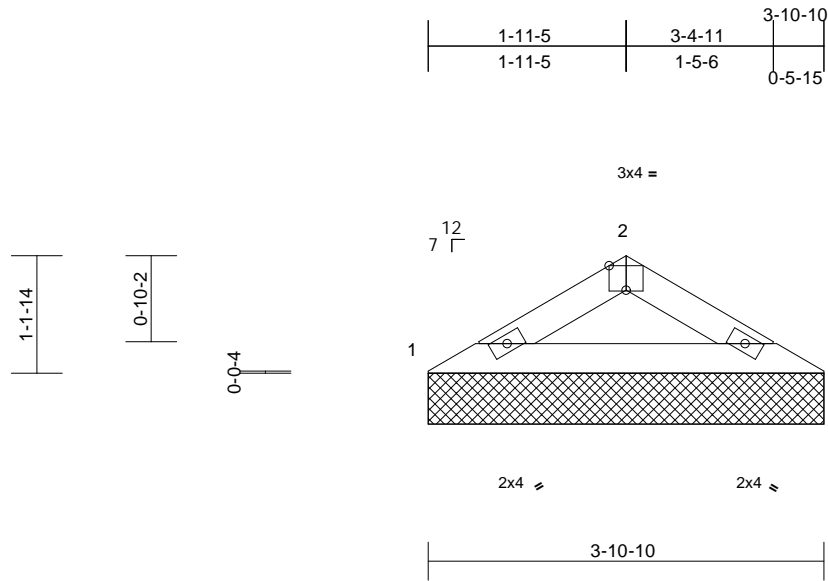
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	RENDEK RESIDENCE	T21322251
20-442-A1	V6	Valley	1	1	Job Reference (optional)	

Arnold Truss Mfg. LLC, Ocala, FL - 34475,

Run: 8.42 S Aug 25 2020 Print: 8.420 S Aug 25 2020 MiTek Industries, Inc. Wed Sep 16 14:10:21
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Page: 1



Scale = 1:22.6

Plate Offsets (X, Y): [2:0-2-0,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.10	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	7.0	Lumber DOL	1.25	BC	0.08	Vert(TL)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a	
BCDL	10.0	Code	FBC2017/TPI2014	Matrix-MP							Weight: 11 lb FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2

BRACING

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

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

REACTIONS

(size) 1=3-10-10, 3=3-10-10

Max Horiz 1=-20 (LC 10)

Max Uplift 1=-16 (LC 12), 3=-16 (LC 12)

Max Grav 1=144 (LC 1), 3=144 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-229/68, 2-3=-145/53

BOT CHORD 1-3=-49/191

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl.,
GCpi=0.18; MWFRS (directional) and C-C Exterior (2)
zone; cantilever left and right exposed; end vertical left
and right exposed; C-C for members and forces &
MWFRS for reactions shown; Lumber DOL=1.60 plate
grip DOL=1.60
- 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) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 4-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 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 16 lb uplift at joint 1 and 16 lb uplift at joint 3.

LOAD CASE(S) Standard

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Date:

September 17,2020

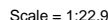
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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



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Arnold Truss Mfg. LLC, Ocala, FL - 34475, Run: 8.42 S Aug 25 2020 Print: 8.420 S Aug 25 2020 MiTek Industries, Inc. Wed Sep 16 14:10:21 Page: 1
ID:TiNyO3rHvGvvYqJq6LFpGyd1IO-Mock Me



6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-0"-0" tall by 2'-0"-0" wide will fit between the bottom chord and any other members.

- LOAD CASE(S) Standard

September 17, 2020

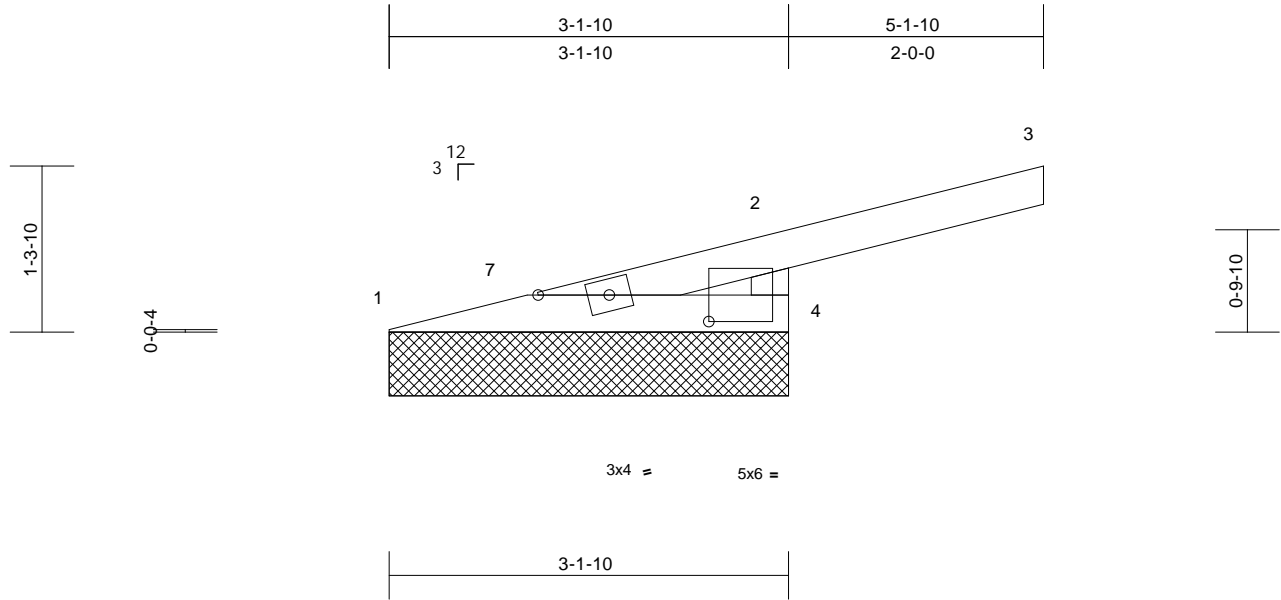
Job	Truss	Truss Type	Qty	Ply	RENDEK RESIDENCE	T21322253
20-442-A1	V8	Valley	1	1	Job Reference (optional)	

Arnold Truss Mfg. LLC, Ocala, FL - 34475,

Run: 8.42 S Aug 25 2020 Print: 8.420 S Aug 25 2020 MiTek Industries, Inc. Wed Sep 16 14:10:22

Page: 1

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Scale = 1:18.1

Plate Offsets (X, Y): [4:1-4-1,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.26	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	7.0	Lumber DOL	1.25	BC	0.09	Vert(CT)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a	
BCDL	10.0	Code	FBC2017/TPI2014	Matrix-MP							Weight: 11 lb FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-2-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size) 1=3-1-10, 4=3-1-10
Max Horiz 1=39 (LC 9)
Max Uplift 4=122 (LC 12)
Max Grav 1=70 (LC 3), 4=268 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-7=-155/0, 1-7=-152/0, 1-2=-75/46,
2-3=-28/0, 2-4=-306/324

BOT CHORD 1-4=-9/134

NOTES

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl.,
GCpi=0.18; MWFRS (directional) and C-C Exterior (2)
0-1-0 to 3-0-14, Interior (1) 3-0-14 to 5-2-10 zone;
cantilever left and right exposed; end vertical left and
right exposed; C-C for members and forces & MWFRS
for reactions shown; Lumber DOL=1.60 plate grip
DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss
only. For studs exposed to wind (normal to the face),
see Standard Industry Gable End Details as applicable,
or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable requires continuous bottom chord bearing.
- 4) Gable studs spaced at 4-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.

- 6) * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.
- 7) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 122 lb uplift at
joint 4.

LOAD CASE(S) Standard

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Date:

September 17,2020

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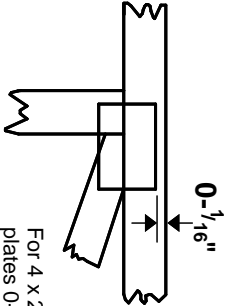
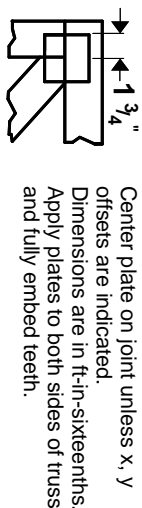
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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



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Symbols

PLATE LOCATION AND ORIENTATION



For 4 x 2 orientation, locate plates 0- $\frac{1}{16}$ " from outside edge of truss.

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

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

PLATE SIZE

4 X 4

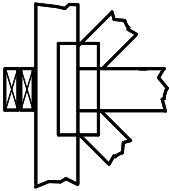
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

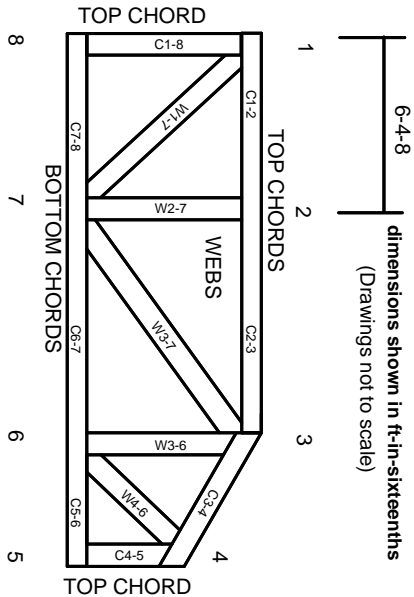
BEARING



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

Industry Standards:
ANSI/TP1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

Lumber design values are in accordance with ANSI/TP1 section 6.3 These truss designs rely on lumber values established by others.

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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TP1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.