

RE: 240124-03KM - Stanley & Beverly Pope

**MiTek, Inc.**

16023 Swingley Ridge Rd.  
 Chesterfield, MO 63017  
 314.434.1200

**Site Information:**

Customer Info: Stanley & Beverly Pope Project Name: Pope Res. Model: .  
 Lot/Block: . Subdivision: .  
 Address: 649 NW Noegel Rd., .  
 City: Lake City State: Fl.

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

Name: License #:  
 Address: State:  
 City:

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

Design Code: FBC2023/TPI2014 Design Program: MiTek 20/20 8.7  
 Wind Code: ASCE 7-22 Wind Speed: 130 mph  
 Roof Load: 34.0 psf Floor Load: N/A psf

This package includes 51 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	T33807893	H01	5/8/24	23	T33807915	H10	5/8/24
2	T33807894	CJ01	5/8/24	24	T33807916	H11	5/8/24
3	T33807895	J01	5/8/24	25	T33807917	H12	5/8/24
4	T33807896	J02	5/8/24	26	T33807918	H13	5/8/24
5	T33807897	H02	5/8/24	27	T33807919	H22	5/8/24
6	T33807898	H03	5/8/24	28	T33807920	CJ04	5/8/24
7	T33807899	H04	5/8/24	29	T33807921	J11	5/8/24
8	T33807900	CJ02	5/8/24	30	T33807922	J12	5/8/24
9	T33807901	CJ03	5/8/24	31	T33807923	J13	5/8/24
10	T33807902	J03	5/8/24	32	T33807924	H23	5/8/24
11	T33807903	J04	5/8/24	33	T33807925	T01	5/8/24
12	T33807904	J05	5/8/24	34	T33807926	G01	5/8/24
13	T33807905	J06	5/8/24	35	T33807927	T02	5/8/24
14	T33807906	J07	5/8/24	36	T33807928	T03	5/8/24
15	T33807907	H05	5/8/24	37	T33807929	T04	5/8/24
16	T33807908	J08	5/8/24	38	T33807930	T05	5/8/24
17	T33807909	J09	5/8/24	39	T33807931	G02	5/8/24
18	T33807910	H06	5/8/24	40	T33807932	T06	5/8/24
19	T33807911	H07	5/8/24	41	T33807933	H14	5/8/24
20	T33807912	H08	5/8/24	42	T33807934	H15	5/8/24
21	T33807913	M01	5/8/24	43	T33807935	T07	5/8/24
22	T33807914	H09	5/8/24	44	T33807936	H16	5/8/24



The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Coastal Truss & Vinyl Siding.

Truss Design Engineer's Name: Lee, Julius  
 My license renewal date for the state of Florida is February 28, 2025.

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



Julius Lee PE No. 34869  
 MiTek Inc. DBA MiTek USA FL Cert 6634  
 16023 Swingley Ridge Rd. Chesterfield, MO 63017  
 Date:

May 8, 2024



RE: 240124-03KM - Stanley & Beverly Pope

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

**Site Information:**

Customer Info: Stanley & Beverly Pope    Project Name: Pope Res.    Model: .  
Lot/Block: .    Subdivision: .  
Address: 649 NW Noegel Rd., .  
City: Lake City    State: Fl.

No.	Seal#	Truss Name	Date
45	T33807937	T08	5/8/24
46	T33807938	H17	5/8/24
47	T33807939	H18	5/8/24
48	T33807940	H19	5/8/24
49	T33807941	H21	5/8/24
50	T33807942	T09	5/8/24
51	T33807943	H20	5/8/24

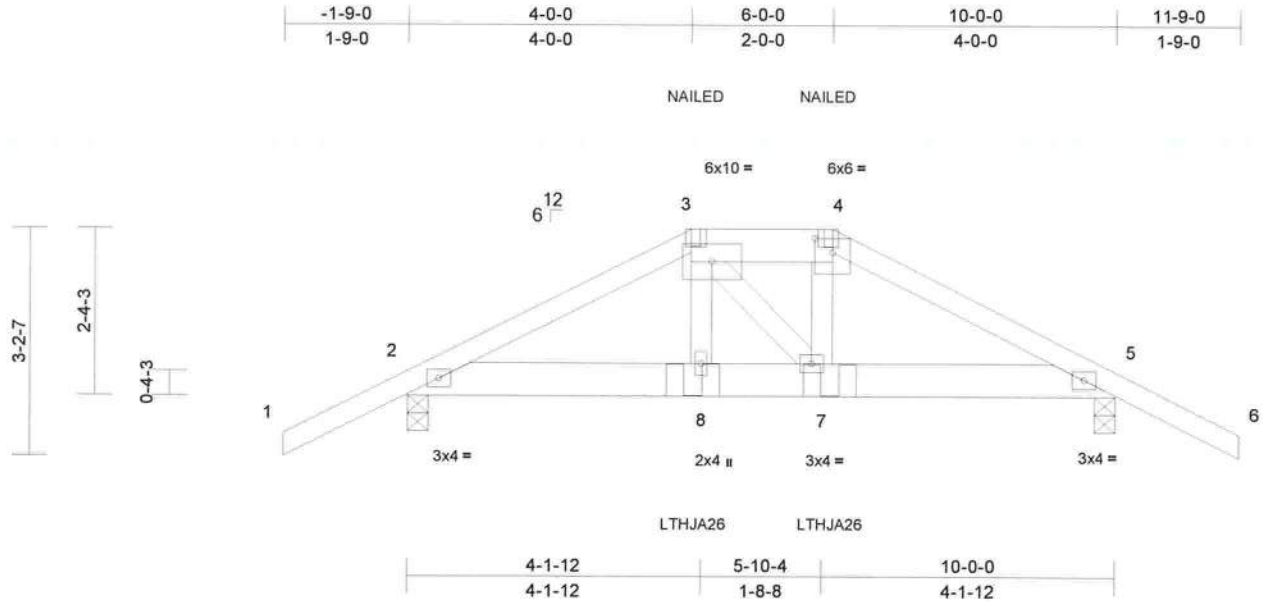


Job 240124-03KM	Truss H01	Truss Type Hip Girder	Qty 1	Ply 1	Stanley & Beverly Pope Job Reference (optional)	T33807893
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Coastal Truss & Vinyl Siding, Patterson, GA - 31577,

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Wed May 08 13:29:33  
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Page: 1



Scale = 1:32.5

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

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	0.20	Vert(LL)	-0.01	7-8	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.20	Vert(CT)	-0.02	8	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.05	Horz(CT)	0.01	5	n/a	n/a		
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 55 lb	FT = 20%

**LUMBER**

TOP CHORD 2x4 SP No.2 \*Except\* 3-4:2x6 SP No.2  
 BOT CHORD 2x6 SP No.2  
 WEBS 2x4 SP No.2

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 3-4.  
 BOT CHORD Structural wood sheathing directly applied or 10-0-0 oc bracing.

**REACTIONS**

(size) 2=0-3-8, 5=0-3-8  
 Max Horiz 2=74 (LC 7)  
 Max Uplift 2=-244 (LC 8), 5=-244 (LC 8)  
 Max Grav 2=620 (LC 13), 5=620 (LC 14)

**FORCES**

(lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=0/42, 2-3=-910/235, 3-4=-814/232, 4-5=-914/235, 5-6=0/42  
 BOT CHORD 2-8=-143/826, 7-8=-146/843, 5-7=-138/810  
 WEBS 3-8=-35/239, 3-7=-38/51, 4-7=-24/253

**NOTES**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=18ft; B=50ft; L=30ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.

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.

- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 244 lb uplift at joint 2 and 244 lb uplift at joint 5.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Use Simpson Strong-Tie LTHJA26 (LTHJA26 on 1 ply, Left Hand Hip) or equivalent at 4-0-6 from the left end to connect truss(es) to front face of bottom chord.
- Use Simpson Strong-Tie LTHJA26 (LTHJA26 on 1 ply, Right Hand Hip) or equivalent at 5-11-10 from the left end to connect truss(es) to front face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.
- "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 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, 4-6=-54, 2-5=-14  
 Concentrated Loads (lb)  
 Vert: 3=-28 (F), 4=-28 (F), 8=-147 (F), 7=-147 (F)



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 16023 Swingley Ridge Rd. Chesterfield, MO 63017  
 Date:

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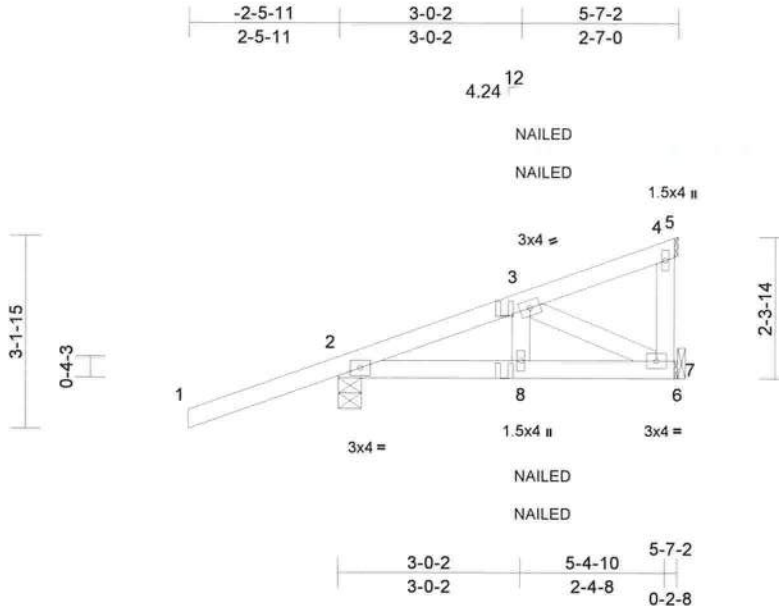
**MiTek®**  
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 Chesterfield, MO 63017  
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Job	Truss	Truss Type	Qty	Ply	Stanley & Beverly Pope	T33807894
240124-03KM	CJ01	Diagonal Hip Girder	4	1	Job Reference (optional)	

Coastal Truss & Vinyl Siding, Patterson, GA - 31577.

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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	0.42	Vert(LL)	-0.01	8-11	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.12	Vert(CT)	-0.01	8-11	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.03	Horz(CT)	0.00	7	n/a	n/a		
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 28 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 5-7-2 oc purlins, except end verticals.  
BOT CHORD Structural wood sheathing directly applied or 10-0-0 oc bracing.

**REACTIONS** (size) 2=0-4-9, 7= Mechanical  
Max Horiz 2=108 (LC 7)  
Max Uplift 2=-200 (LC 8), 7=-36 (LC 5)  
Max Grav 2=341 (LC 1), 7=172 (LC 13)

**FORCES** (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/45, 2-3=-280/107, 3-4=-50/26,  
4-5=-1/0, 4-7=-60/32

BOT CHORD 2-8=-121/253, 7-8=-47/224, 6-7=0/0  
WEBS 3-8=-4/93, 3-7=-231/31

**NOTES**

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust)  
Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=18ft;  
B=50ft; L=30ft; eave=4ft; Cat. II; Exp C; Enclosed;  
MWFRS (directional); cantilever left and right exposed;  
end vertical left and right exposed; Lumber DOL=1.60  
plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Bearings are assumed to be: Joint 2 SP No.2 .
- 6) Refer to girder(s) for truss to truss connections.

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 200 lb uplift at joint 2 and 36 lb uplift at joint 7.
  - 8) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
  - 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- LOAD CASE(S) Standard**
- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (lb/ft)  
Vert: 1-4=-54, 4-5=-14, 6-9=-14  
Concentrated Loads (lb)  
Vert: 8=15 (F=7, B=7)



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Date:

May 8, 2024

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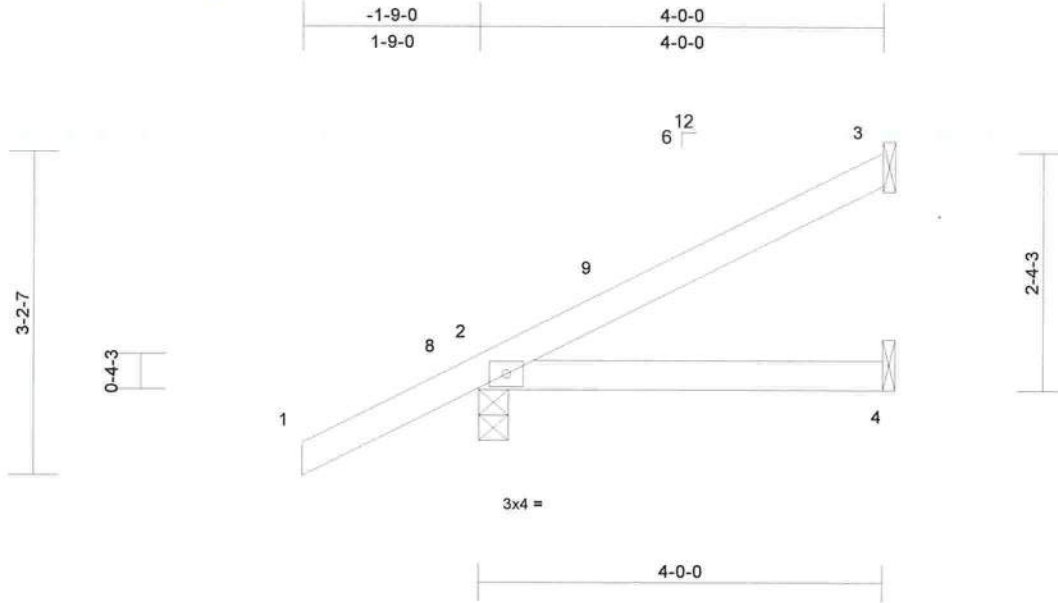


Job 240124-03KM	Truss J01	Truss Type Jack-Open	Qty 14	Ply 1	Stanley & Beverly Pope Job Reference (optional)	T33807895
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Coastal Truss & Vinyl Siding, Patterson, GA - 31577,

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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	0.34	Vert(LL)	0.01	4-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.14	Vert(CT)	-0.02	4-7	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 16 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 4-0-0 oc purlins.  
BOT CHORD Structural wood sheathing directly applied or 10-0-0 oc bracing.

**REACTIONS** (size) 2=0-3-8, 3= Mechanical, 4= Mechanical  
Max Horiz 2=122 (LC 12)  
Max Uplift 2=-128 (LC 12), 3=-47 (LC 12)  
Max Grav 2=249 (LC 1), 3=86 (LC 17), 4=58 (LC 3)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/42, 2-3=-242/61  
BOT CHORD 2-4=-52/177

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 47 lb uplift at joint 3 and 128 lb uplift at joint 2.  
**LOAD CASE(S)** Standard

- NOTES**
- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust)  
Vasd=101mph; TC DL=4.2psf; BC DL=4.2psf; h=18ft;  
B=50ft; L=30ft; eave=4ft; Cat. II; Exp C; Enclosed;  
MWFRS (directional) and C-C Zone3 -1-9-0 to 1-3-0,  
Zone1 1-3-0 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) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
  - 5) Bearings are assumed to be: , Joint 2 SP No.2 .
  - 6) Refer to girder(s) for truss to truss connections.



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Date:

May 8, 2024

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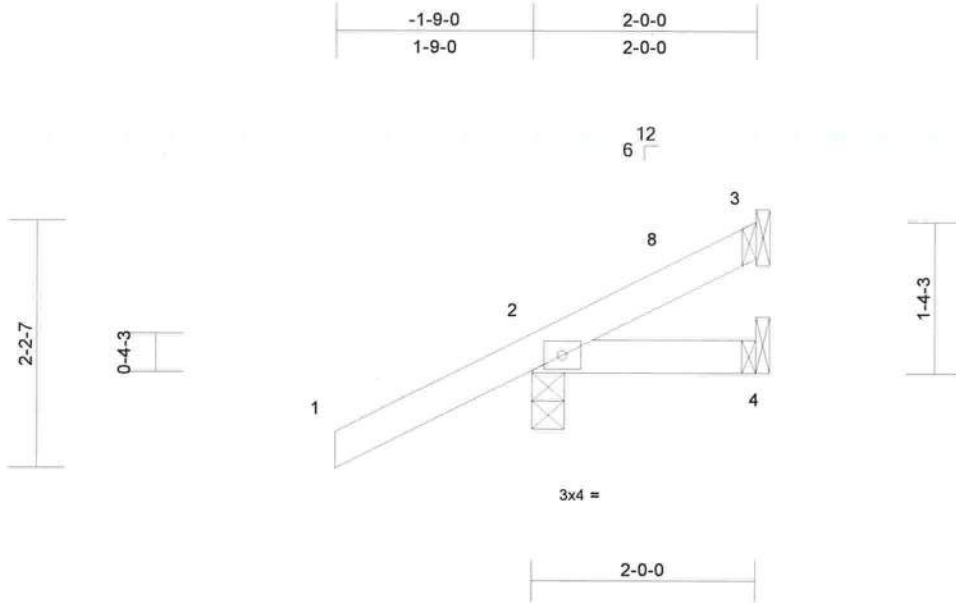
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Chesterfield, MO 63017  
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Stanley & Beverly Pope	T33807896
240124-03KM	J02	Jack-Open	17	1	Job Reference (optional)	

Coastal Truss & Vinyl Siding, Patterson, GA - 31577,

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Wed May 08 13:29:37  
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Scale = 1:20.6

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	0.34	Vert(LL)	0.00	4-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.08	Vert(CT)	0.00	4-7	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 9 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 Structural wood sheathing directly applied or 10-0-0 oc bracing.

**REACTIONS** (size) 2=0-3-8, 3= Mechanical, 4= Mechanical  
 Max Horiz 2=86 (LC 12)  
 Max Uplift 2=-141 (LC 12), 3=-12 (LC 9)  
 Max Grav 2=204 (LC 1), 3=28 (LC 17), 4=24 (LC 3)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=0/42, 2-3=-206/64  
 BOT CHORD 2-4=-72/196

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 141 lb uplift at joint 2 and 12 lb uplift at joint 3.  
**LOAD CASE(S)** Standard

- NOTES**
- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust)  
 Vasd=101mph; TC DL=4.2psf; BC DL=4.2psf; h=18ft; B=50ft; L=30ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -1-9-0 to 1-3-0, Zone1 1-3-0 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) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
  - 5) Bearings are assumed to be: , Joint 2 SP No.2 .
  - 6) Refer to girder(s) for truss to truss connections.



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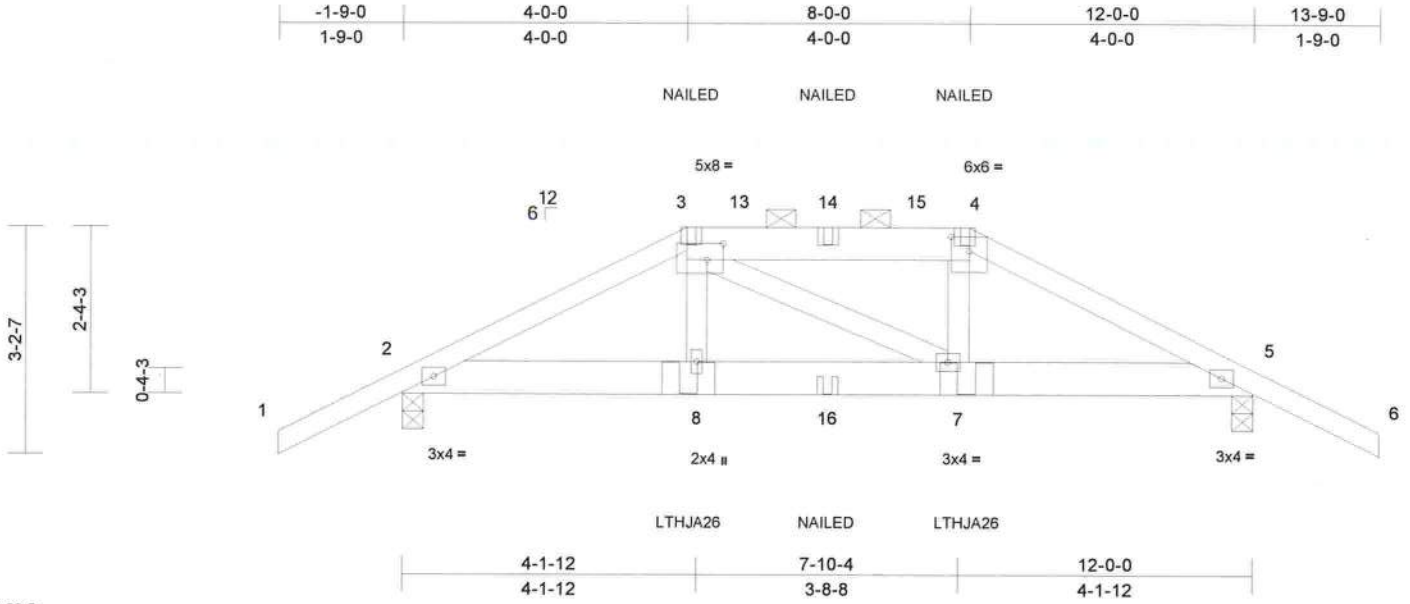


Job 240124-03KM	Truss H02	Truss Type Hip Girder	Qty 1	Ply 1	Stanley & Beverly Pope Job Reference (optional)	T33807897
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Coastal Truss & Vinyl Siding, Patterson, GA - 31577,

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Wed May 08 13:29:33  
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Page: 1



Scale = 1:32.5

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

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	0.20	Vert(LL)	-0.02	7-8	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.23	Vert(CT)	-0.04	7-8	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.06	Horz(CT)	0.01	5	n/a	n/a		
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 67 lb	FT = 20%

**LUMBER**  
TOP CHORD 2x4 SP No.2 \*Except\* 3-4:2x6 SP No.2  
BOT CHORD 2x6 SP No.2  
WEBS 2x4 SP No.2

**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 5-6-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 3-4.  
BOT CHORD Structural wood sheathing directly applied or 10-0-0 oc bracing.

**REACTIONS** (size) 2=0-3-8, 5=0-3-8  
Max Horiz 2=-74 (LC 6)  
Max Uplift 2=-270 (LC 8), 5=-270 (LC 8)  
Max Grav 2=712 (LC 13), 5=712 (LC 14)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/42, 2-3=-1126/295, 3-4=-1008/285, 4-5=-1127/293, 5-6=0/42  
BOT CHORD 2-8=-202/1020, 7-8=-203/1040, 5-7=-196/996  
WEBS 3-8=-15/270, 3-7=-44/48, 4-7=-6/274

- \* 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.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 270 lb uplift at joint 2 and 270 lb uplift at joint 5.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Use Simpson Strong-Tie LTHJA26 (LTHJA26 on 1 ply, Left Hand Hip) or equivalent at 4-0-6 from the left end to connect truss(es) to front face of bottom chord.
- Use Simpson Strong-Tie LTHJA26 (LTHJA26 on 1 ply, Right Hand Hip) or equivalent at 7-11-10 from the left end to connect truss(es) to front face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.
- "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 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, 4-6=-54, 2-5=-14  
Concentrated Loads (lb)  
Vert: 3=-28 (F), 4=-28 (F), 8=-147 (F), 7=-147 (F), 14=-28 (F), 16=-17 (F)



Julius Lee PE No. 34869  
MiTek Inc. DBA MiTek USA FL Cert 6634  
16023 Swingley Ridge Rd. Chesterfield, MO 63017  
Date:

May 8, 2024

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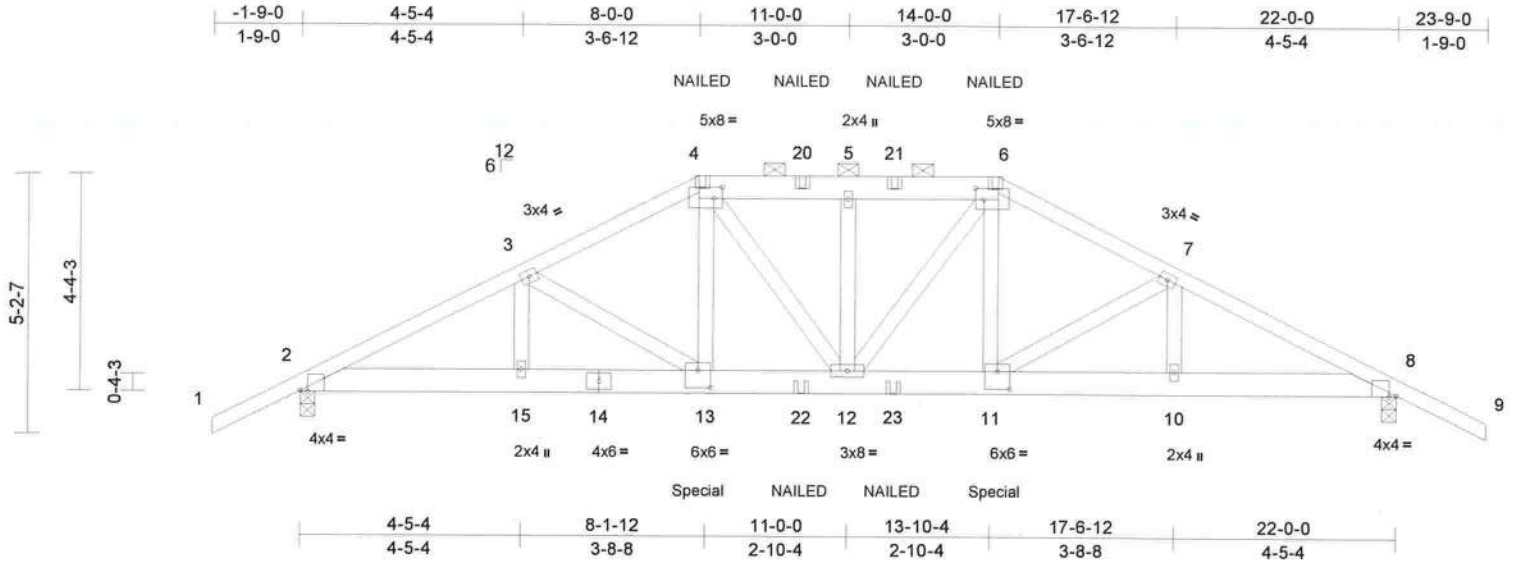
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Job 240124-03KM	Truss H03	Truss Type Hip Girder	Qty 1	Ply 1	Stanley & Beverly Pope Job Reference (optional)	T33807898
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Coastal Truss & Vinyl Siding, Patterson, GA - 31577,

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Wed May 08 13:29:34  
ID:RL7clStaxrw3kMjL0z3z7Rzs71M-RfC?PsB70Hq3NSgPqL8w3ulTXbGKWrCDoI7J4zJC7f

Page: 1



Scale = 1:46.2

Plate Offsets (X, Y): [2:0-1-12,Edge], [4:0-2-0,0-2-12], [6:0-2-0,0-2-12], [8:0-1-12,Edge], [11:0-3-0,0-4-4], [13:0-3-0,0-4-4]

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	0.33	Vert(LL)	0.12	11-12	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.68	Vert(CT)	-0.21	11-12	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.20	Horz(CT)	0.07	8	n/a	n/a		
BCDL	7.0	Code	FBC2023/TP12014	Matrix-MS								
											Weight: 143 lb	FT = 20%

**LUMBER**  
TOP CHORD 2x4 SP No.2 \*Except\* 4-6:2x6 SP No.2  
BOT CHORD 2x6 SP No.2  
WEBS 2x4 SP No.2

**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 3-0-6 oc purlins, except 2-0-0 oc purlins (4-2-11 max.): 4-6.  
BOT CHORD Structural wood sheathing directly applied or 7-7-13 oc bracing.

**REACTIONS** (size) 2=0-3-8, 8=0-3-8  
Max Horiz 2=125 (LC 7)  
Max Uplift 2=657 (LC 8), 8=657 (LC 8)  
Max Grav 2=1725 (LC 1), 8=1725 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/42, 2-3=-3344/1157, 3-4=-3106/1141, 4-5=-3008/1143, 5-6=-3008/1143, 6-7=-3105/1141, 7-8=-3343/1157, 8-9=0/42  
BOT CHORD 2-15=-931/3046, 13-15=-931/3046, 12-13=-860/2842, 11-12=-860/2794, 10-11=-931/2955, 8-10=-931/2955  
WEBS 3-15=0/136, 3-13=-277/130, 4-13=-274/935, 4-12=-169/450, 5-12=-301/178, 6-12=-169/450, 6-11=-274/934, 7-11=-277/130, 7-10=0/136

- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=18ft; B=50ft; L=30ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

- 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.
  - All bearings are assumed to be SP No.2 .
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 657 lb uplift at joint 2 and 657 lb uplift at joint 8.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
  - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 700 lb down and 231 lb up at 8-0-0, and 700 lb down and 231 lb up at 13-11-4 on bottom chord. The design/ selection of such connection device(s) is the responsibility of others.
  - 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: 1-4=-54, 4-6=-54, 6-9=-54, 2-8=-14  
Concentrated Loads (lb)  
Vert: 4=-28 (F), 6=-28 (F), 13=-663 (F), 11=-663 (F), 20=-28 (F), 21=-28 (F), 22=-163 (F), 23=-163 (F)



Julius Lee PE No. 34869  
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16023 Swingley Ridge Rd. Chesterfield, MO 63017  
Date:

May 8, 2024

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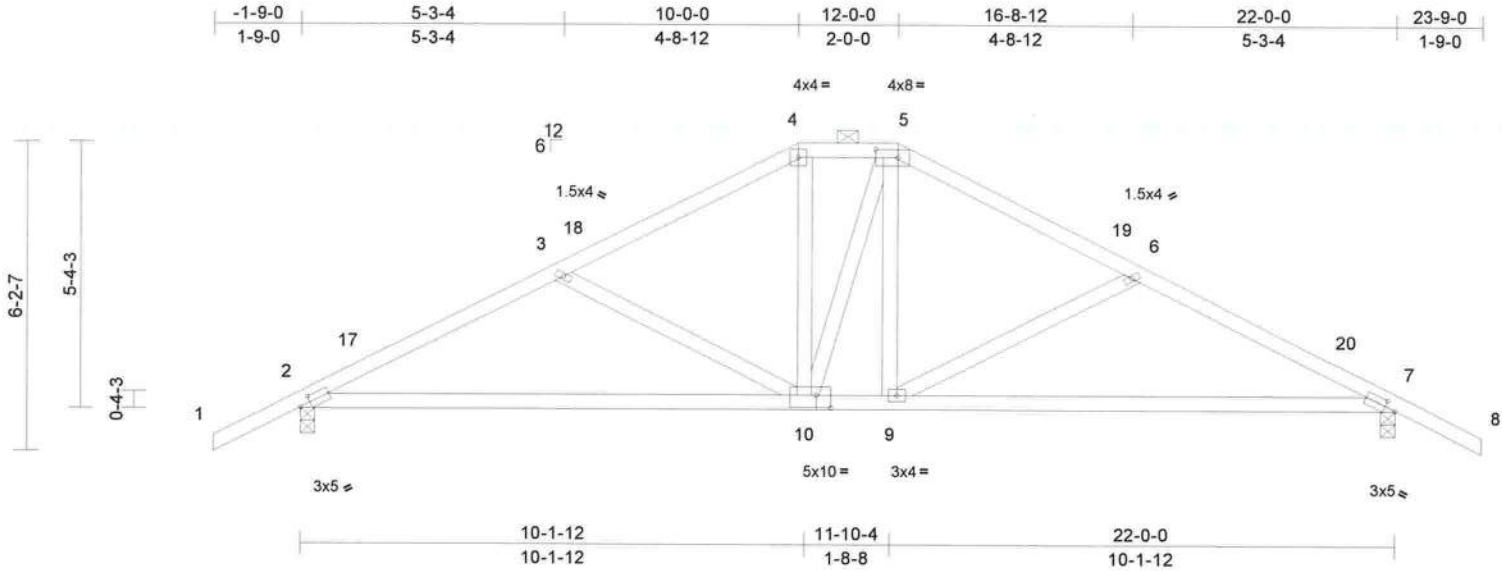


Job	Truss	Truss Type	Qty	Ply	Stanley & Beverly Pope	T33807899
240124-03KM	H04	Hip	2	1	Job Reference (optional)	

Coastal Truss & Vinyl Siding, Patterson, GA - 31577.

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Wed May 08 13:29:34  
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Page: 1



Scale = 1:46.4

Plate Offsets (X, Y): [2:0-2-10,0-1-8], [5:0-5-4,0-2-0], [7:0-2-10,0-1-8], [10:0-3-8,0-3-0]

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	0.47	Vert(LL)	-0.21	9-16	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.69	Vert(CT)	-0.37	9-16	>708	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.04	7	n/a	n/a		
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MS								
											Weight: 113 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 5-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.); 4-5.  
 BOT CHORD Structural wood sheathing directly applied or 9-8-9 oc bracing.

**REACTIONS** (size) 2=0-3-8, 7=0-3-8  
 Max Horiz 2=-151 (LC 10)  
 Max Uplift 2=-304 (LC 12), 7=-304 (LC 12)  
 Max Grav 2=843 (LC 1), 7=843 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=0/42, 2-3=-1281/499, 3-4=-978/377, 4-5=-819/383, 5-6=-977/377, 6-7=-1281/498, 7-8=0/42  
 BOT CHORD 2-9=-335/1120, 7-9=-357/1120  
 WEBS 3-10=-361/237, 4-10=-62/274, 5-10=-110/115, 5-9=-65/273, 6-9=-363/237

- 4) Provide adequate drainage to prevent water ponding.
  - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
  - 7) All bearings are assumed to be SP No.2 .
  - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 304 lb uplift at joint 2 and 304 lb uplift at joint 7.
  - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- LOAD CASE(S)** Standard

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=18ft; B=50ft; L=30ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -1-9-0 to 1-3-0, Zone1 1-3-0 to 10-0-0, Zone3 10-0-0 to 12-0-0, Zone2 12-0-0 to 16-2-15, Zone1 16-2-15 to 23-9-0 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) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.



Julius Lee PE No. 34869  
 MiTek Inc. DBA MiTek USA FL Cert 6634  
 16023 Swingley Ridge Rd. Chesterfield, MO 63017  
 Date:

May 8, 2024

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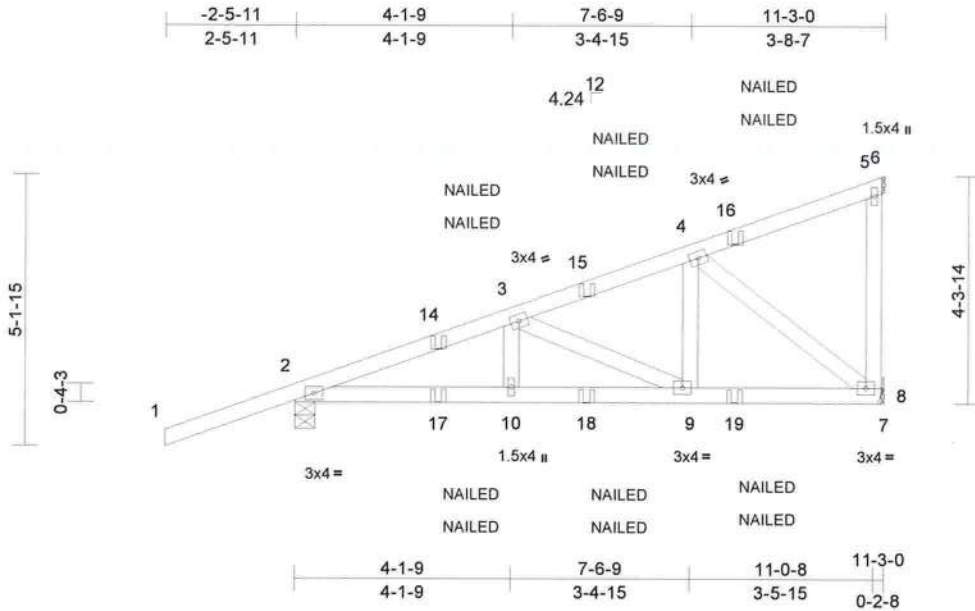
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Job 240124-03KM	Truss CJ02	Truss Type Diagonal Hip Girder	Qty 4	Ply 1	Stanley & Beverly Pope Job Reference (optional)	T33807900
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Coastal Truss & Vinyl Siding, Patterson, GA - 31577,

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Wed May 08 13:29:32  
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Page: 1



Scale = 1:44

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	0.42	Vert(LL)	-0.03	10-13	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.28	Vert(CT)	-0.04	10-13	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.22	Horz(CT)	0.01	8	n/a	n/a		
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 61 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 5-9-10 oc purlins, except end verticals.  
BOT CHORD Structural wood sheathing directly applied or 10-0-0 oc bracing.

**REACTIONS** (size) 2=0-4-9, 8= Mechanical  
Max Horiz 2=200 (LC 7)  
Max Uplift 2=-257 (LC 8), 8=-170 (LC 5)  
Max Grav 2=573 (LC 1), 8=550 (LC 13)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/45, 2-3=-1001/171, 3-4=-668/183,  
4-5=-149/91, 5-6=-1/0, 5-8=-102/61  
BOT CHORD 2-10=-259/859, 9-10=-259/859,  
8-9=-199/560, 7-8=0/0  
WEBS 3-10=0/120, 3-9=-333/66, 4-9=0/316,  
4-8=-664/204

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 257 lb uplift at joint 2 and 170 lb uplift at joint 8.  
8) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.  
9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S) Standard**  
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (lb/ft)  
Vert: 1-5=-54, 5-6=-14, 7-11=-14  
Concentrated Loads (lb)  
Vert: 15=-11 (F=-5, B=-5), 16=-114 (F=-57, B=-57),  
17=15 (F=7, B=7), 18=-23 (F=-11, B=-11), 19=-69 (F=-35, B=-35)

- NOTES**
- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust)  
Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=18ft;  
B=50ft; L=30ft; eave=4ft; Cat. II; Exp C; Enclosed;  
MWFRS (directional); cantilever left and right exposed ;  
end vertical left and right exposed; Lumber DOL=1.60  
plate grip DOL=1.60
  - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
  - 5) Bearings are assumed to be: Joint 2 SP No.2 .
  - 6) Refer to girder(s) for truss to truss connections.



Julius Lee PE No. 34869  
MiTek Inc. DBA MiTek USA FL Cert 6634  
16023 Swingley Ridge Rd. Chesterfield, MO 63017  
Date:

May 8, 2024

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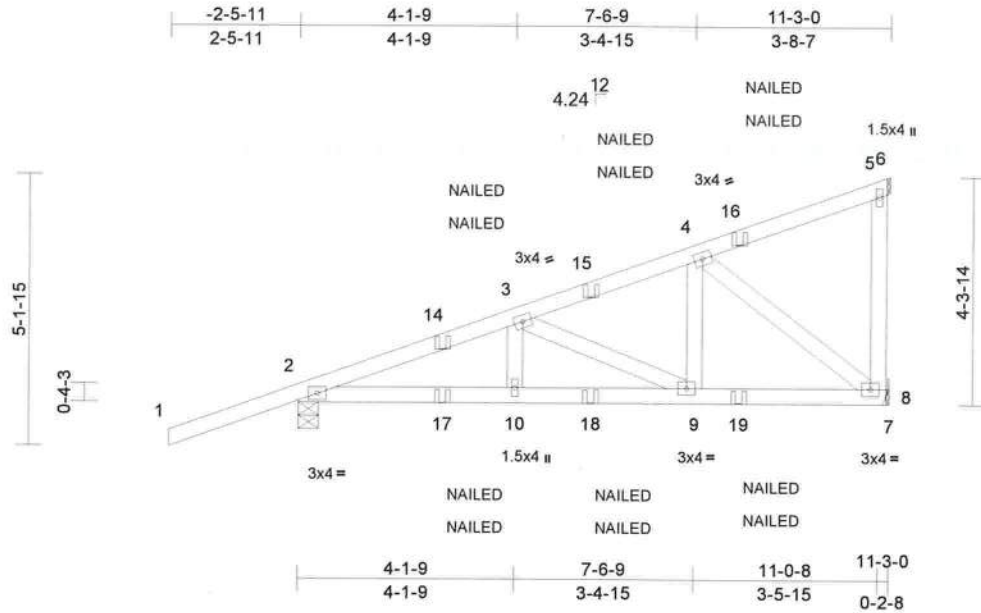


Job 240124-03KM	Truss CJ03	Truss Type Diagonal Hip Girder	Qty 1	Ply 1	Stanley & Beverly Pope Job Reference (optional)	T33807901
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Coastal Truss & Vinyl Siding, Patterson, GA - 31577.

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Wed May 08 13:29:32  
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Page: 1



Scale = 1:44

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	0.42	Vert(LL)	-0.03	10-13	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.28	Vert(CT)	-0.04	10-13	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.22	Horz(CT)	0.01	8	n/a	n/a		
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 61 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 5-9-10 oc purlins, except end verticals.  
BOT CHORD Structural wood sheathing directly applied or 10-0-0 oc bracing.
- REACTIONS** (size) 2=0-4-9, 8= Mechanical  
Max Horiz 2=200 (LC 7)  
Max Uplift 2=-257 (LC 8), 8=-170 (LC 5)  
Max Grav 2=573 (LC 1), 8=550 (LC 13)
- FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/45, 2-3=-100/171, 3-4=-668/183,  
4-5=-149/91, 5-6=-1/0, 5-8=-102/61  
BOT CHORD 2-10=-259/859, 9-10=-259/859,  
8-9=-199/560, 7-8=0/0  
WEBS 3-10=0/120, 3-9=-333/66, 4-9=0/316,  
4-8=-664/204

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 257 lb uplift at joint 2 and 170 lb uplift at joint 8.  
8) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.  
9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- LOAD CASE(S) Standard**  
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (lb/ft)  
Vert: 1-5=-54, 5-6=-14, 7-11=-14  
Concentrated Loads (lb)  
Vert: 15=-11 (F=-5, B=-5), 16=-114 (F=-57, B=-57),  
17=15 (F=7, B=7), 18=-23 (F=-11, B=-11), 19=-69 (F=-35, B=-35)

- NOTES**  
1) Wind: ASCE 7-22; Vult=130mph (3-second gust)  
Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=18ft;  
B=50ft; L=30ft; eave=4ft; Cat. II; Exp C; Enclosed;  
MWFERS (directional); cantilever left and right exposed;  
end vertical left and right exposed; Lumber DOL=1.60  
plate grip DOL=1.60  
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.  
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.  
4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.  
5) Bearings are assumed to be: Joint 2 SP No.2 .  
6) Refer to girder(s) for truss to truss connections.



Julius Lee PE No. 34869  
MiTek Inc. DBA MiTek USA FL Cert 6634  
16023 Swingley Ridge Rd. Chesterfield, MO 63017  
Date:

May 8, 2024

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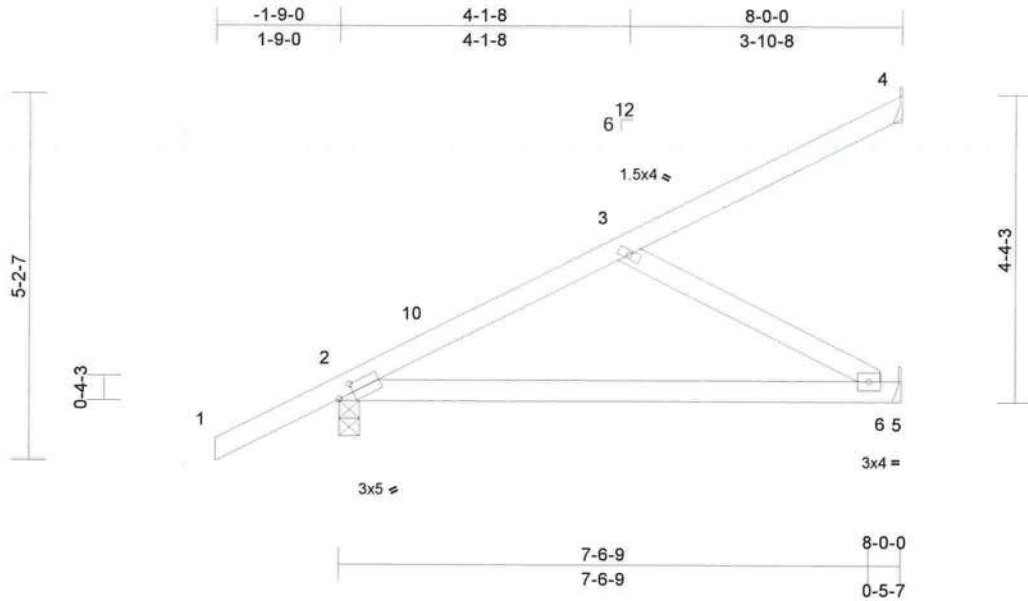
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Chesterfield, MO 63017  
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Job 240124-03KM	Truss J03	Truss Type Jack-Partial	Qty 31	Ply 1	Stanley & Beverly Pope Job Reference (optional)	T33807902
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Coastal Truss & Vinyl Siding, Patterson, GA - 31577.

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Wed May 08 13:29:37  
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Page: 1



Scale = 1:32.8

Plate Offsets (X, Y): [2:0-2-10,0-1-8]

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	0.41	Vert(LL)	-0.13	6-9	>762	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.47	Vert(CT)	-0.22	6-9	>439	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.00	5	n/a	n/a		
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 34 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 6-0-0 oc purlins.  
BOT CHORD Structural wood sheathing directly applied or 10-0-0 oc bracing.

**REACTIONS**

(size) 2=0-3-8, 4= Mechanical, 5= Mechanical  
Max Horiz 2=196 (LC 12)  
Max Uplift 2=-138 (LC 12), 4=-64 (LC 12), 5=-41 (LC 12)  
Max Grav 2=375 (LC 1), 4=85 (LC 17), 5=183 (LC 17)

**FORCES**

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/42, 2-3=-302/114, 3-4=-76/31  
BOT CHORD 2-6=-291/269, 5-6=0/0  
WEBS 3-6=-305/331

**NOTES**

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust)  
Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=18ft;  
B=50ft; L=30ft; eave=4ft; Cat. II; Exp C; Enclosed;  
MWFRS (directional) and C-C Zone3 -1-9-0 to 1-3-0,  
Zone1 1-3-0 to 7-11-4 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) Building Designer / Project engineer responsible for  
verifying applied roof live load shown covers rain loading  
requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom  
chord live load nonconcurrent with any other live loads.

- 4) \* This truss has been designed for a live load of 20.0psf  
on the bottom chord in all areas where a rectangle  
3-06-00 tall by 2-00-00 wide will fit between the bottom  
chord and any other members.
  - 5) Bearings are assumed to be: Joint 2 SP No.2
  - 6) Refer to girder(s) for truss to truss connections.
  - 7) Provide mechanical connection (by others) of truss to  
bearing plate capable of withstanding 64 lb uplift at joint  
4, 138 lb uplift at joint 2 and 41 lb uplift at joint 5.
- LOAD CASE(S)** Standard



Julius Lee PE No. 34869  
MiTek Inc. DBA MiTek USA FL Cert 6634  
16023 Swingley Ridge Rd. Chesterfield, MO 63017  
Date:

May 8, 2024

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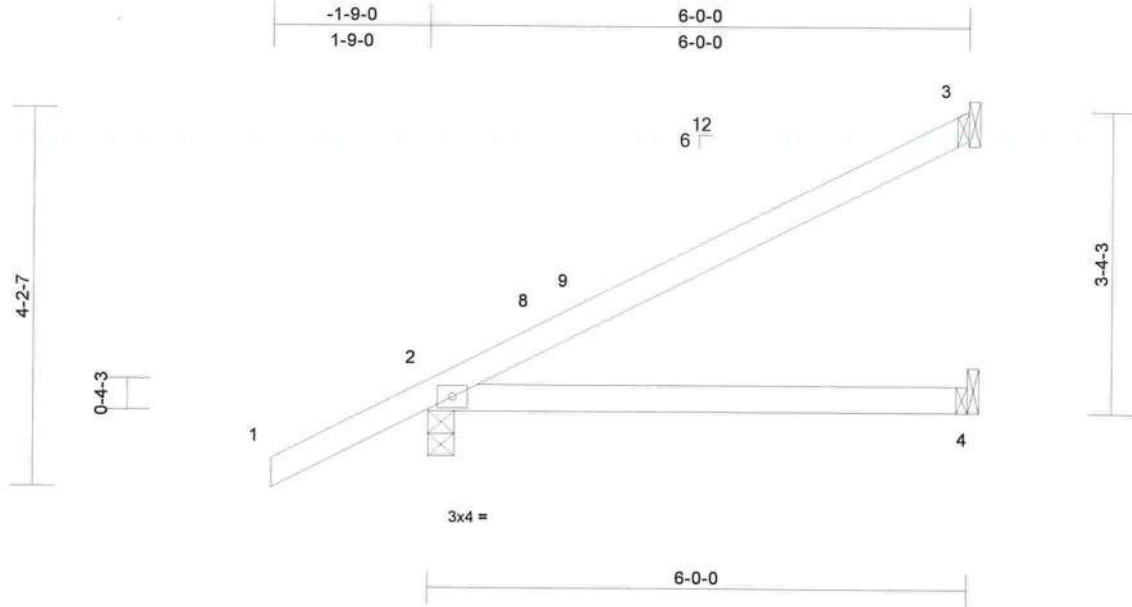


Job 240124-03KM	Truss J04	Truss Type Jack-Open	Qty 9	Ply 1	Stanley & Beverly Pope Job Reference (optional)	T33807903
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Coastal Truss & Vinyl Siding, Patterson, GA - 31577,

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Wed May 08 13:29:38  
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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	0.53	Vert(LL)	0.08	4-7	>874	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.38	Vert(CT)	-0.10	4-7	>732	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MP							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 or 6-0-0 oc purlins.  
 BOT CHORD Structural wood sheathing directly applied or 10-0-0 oc bracing.

**REACTIONS** (size) 2=0-3-8, 3= Mechanical, 4= Mechanical  
 Max Horiz 2=159 (LC 12)  
 Max Uplift 2=-131 (LC 12), 3=-83 (LC 12)  
 Max Grav 2=310 (LC 1), 3=139 (LC 17), 4=91 (LC 3)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=0/42, 2-3=-269/61  
 BOT CHORD 2-4=-25/140

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 83 lb uplift at joint 3 and 131 lb uplift at joint 2.  
**LOAD CASE(S)** Standard

- NOTES**
- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BC DL=4.2psf; h=18ft; B=50ft; L=30ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -1-9-0 to 1-3-0, Zone1 1-3-0 to 5-11-4 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) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
  - 5) Bearings are assumed to be: Joint 2 SP No.2.
  - 6) Refer to girder(s) for truss to truss connections.



Julius Lee PE No. 34869  
 MiTek Inc. DBA MiTek USA FL Cert 6634  
 16023 Swingley Ridge Rd. Chesterfield, MO 63017  
 Date:

May 8, 2024

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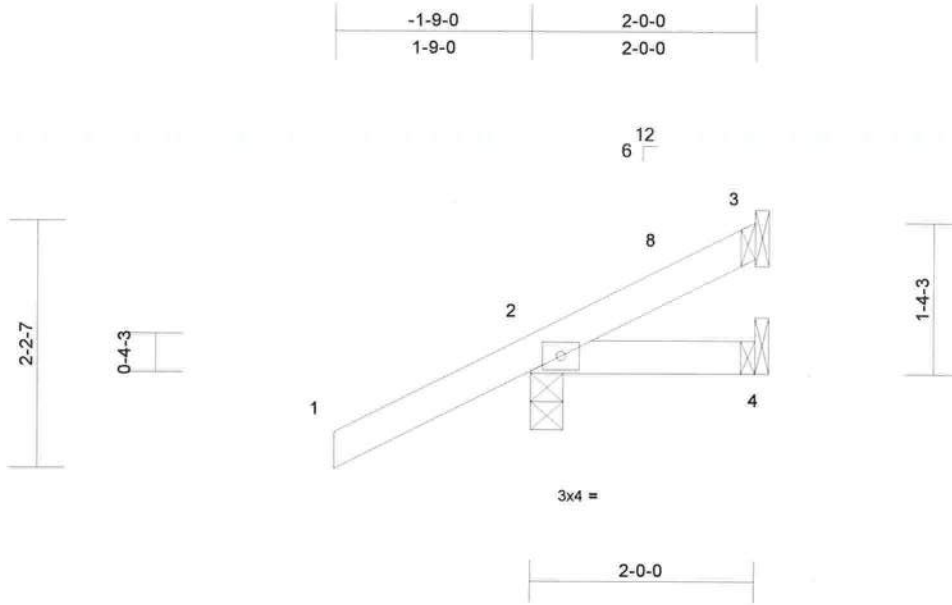
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 Chesterfield, MO 63017  
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Job 240124-03KM	Truss J05	Truss Type Jack-Open	Qty 1	Ply 1	Stanley & Beverly Pope Job Reference (optional)	T33807904
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Coastal Truss & Vinyl Siding, Patterson, GA - 31577,

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Wed May 08 13:29:38  
ID:goeb3jnZqOvCn76oYHw5plz71U-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKwrcDoi7J4zJC7f

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Scale = 1:20.6

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	0.34	Vert(LL)	0.00	4-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.08	Vert(CT)	0.00	4-7	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 9 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 Structural wood sheathing directly applied or 10-0-0 oc bracing.

**REACTIONS** (size) 2=0-3-8, 3= Mechanical, 4= Mechanical  
Max Horiz 2=86 (LC 12)  
Max Uplift 2=-141 (LC 12), 3=-12 (LC 9)  
Max Grav 2=204 (LC 1), 3=28 (LC 17), 4=24 (LC 3)

**FORCES** (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/42, 2-3=-206/64  
BOT CHORD 2-4=-72/196

**NOTES**

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust)  
Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=18ft;  
B=50ft; L=30ft; eave=4ft; Cat. II; Exp C; Enclosed;  
MWFRS (directional) and C-C Zone3 -1-9-0 to 1-3-0,  
Zone1 1-3-0 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) Building Designer / Project engineer responsible for  
verifying applied roof live load shown covers rain loading  
requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom  
chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf  
on the bottom chord in all areas where a rectangle  
3-06-00 tall by 2-00-00 wide will fit between the bottom  
chord and any other members.
- 5) Bearings are assumed to be: , Joint 2 SP No.2 .
- 6) Refer to girder(s) for truss to truss connections.

- 7) Provide mechanical connection (by others) of truss to  
bearing plate capable of withstanding 141 lb uplift at joint  
2 and 12 lb uplift at joint 3.

**LOAD CASE(S)** Standard



Julius Lee PE No. 34869  
MiTek Inc. DBA MiTek USA FL Cert 6634  
16023 Swingley Ridge Rd. Chesterfield, MO 63017  
Date:

May 8, 2024

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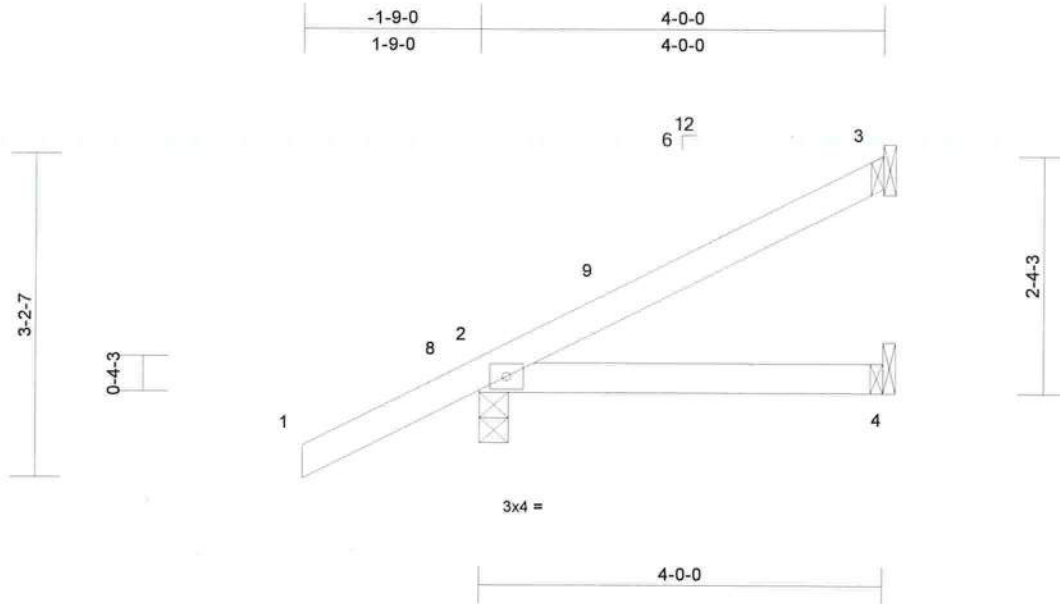


Job 240124-03KM	Truss J06	Truss Type Jack-Open	Qty 1	Ply 1	Stanley & Beverly Pope Job Reference (optional)	T33807905
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Coastal Truss & Vinyl Siding, Patterson, GA - 31577,

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Wed May 08 13:29:38  
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Page: 1



Scale = 1:22.9

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	0.34	Vert(LL)	0.01	4-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.14	Vert(CT)	-0.02	4-7	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 16 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 4-0-0 oc purlins.  
BOT CHORD Structural wood sheathing directly applied or 10-0-0 oc bracing.

**REACTIONS** (size) 2=0-3-8, 3= Mechanical, 4= Mechanical  
Max Horiz 2=122 (LC 12)  
Max Uplift 2=-128 (LC 12), 3=-47 (LC 12)  
Max Grav 2=249 (LC 1), 3=86 (LC 17), 4=58 (LC 3)

**FORCES** (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/42, 2-3=-242/61  
BOT CHORD 2-4=-52/177

**NOTES**

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust)  
Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=18ft;  
B=50ft; L=30ft; eave=4ft; Cat. II; Exp C; Enclosed;  
MWFRS (directional) and C-C Zone3 -1-9-0 to 1-3-0,  
Zone1 1-3-0 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) Building Designer / Project engineer responsible for  
verifying applied roof live load shown covers rain loading  
requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom  
chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf  
on the bottom chord in all areas where a rectangle  
3-06-00 tall by 2-00-00 wide will fit between the bottom  
chord and any other members.
- 5) Bearings are assumed to be: , Joint 2 SP No.2 .
- 6) Refer to girder(s) for truss to truss connections.

7) Provide mechanical connection (by others) of truss to  
bearing plate capable of withstanding 47 lb uplift at joint  
3 and 128 lb uplift at joint 2.

**LOAD CASE(S)** Standard



Julius Lee PE No. 34869  
MiTek Inc. DBA MiTek USA FL Cert 6634  
16023 Swingley Ridge Rd. Chesterfield, MO 63017  
Date:

May 8, 2024

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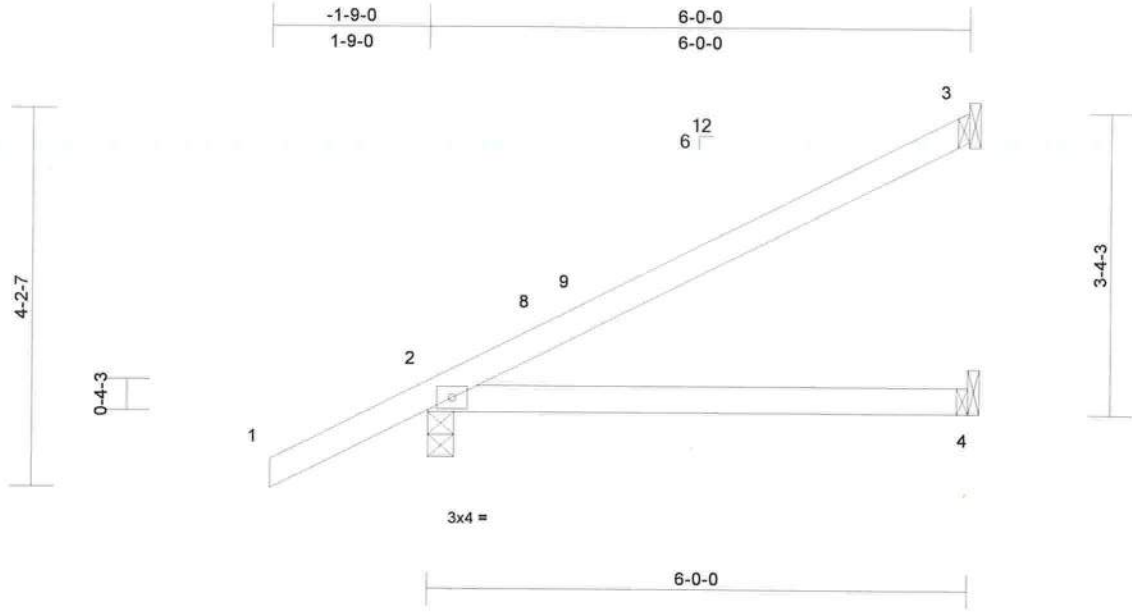
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Job	Truss	Truss Type	Qty	Ply	Stanley & Beverly Pope	T33807906
240124-03KM	J07	Jack-Open	1	1	Job Reference (optional)	

Coastal Truss & Vinyl Siding, Patterson, GA - 31577.

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Wed May 08 13:29:38  
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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	0.53	Vert(LL)	0.08	4-7	>874	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.38	Vert(CT)	-0.10	4-7	>732	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	7.0	Code	FBC2023/TP12014	Matrix-MP							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 or 6-0-0 oc purlins.  
BOT CHORD Structural wood sheathing directly applied or 10-0-0 oc bracing.

**REACTIONS** (size) 2=0-3-8, 3= Mechanical, 4= Mechanical  
Max Horiz 2=159 (LC 12)  
Max Uplift 2=-131 (LC 12), 3=-83 (LC 12)  
Max Grav 2=310 (LC 1), 3=139 (LC 17), 4=91 (LC 3)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/42, 2-3=-269/61  
BOT CHORD 2-4=-25/140

- NOTES**
- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust)  
Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=18ft;  
B=50ft; L=30ft; eave=4ft; Cat. II; Exp C; Enclosed;  
MWFRS (directional) and C-C Zone3 -1-9-0 to 1-3-0,  
Zone1 1-3-0 to 5-11-4 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) Building Designer / Project engineer responsible for  
verifying applied roof live load shown covers rain loading  
requirements specific to the use of this truss component.
  - 3) This truss has been designed for a 10.0 psf bottom  
chord live load nonconcurrent with any other live loads.
  - 4) \* This truss has been designed for a live load of 20.0psf  
on the bottom chord in all areas where a rectangle  
3-06-00 tall by 2-00-00 wide will fit between the bottom  
chord and any other members.
  - 5) Bearings are assumed to be: , Joint 2 SP No.2 .
  - 6) Refer to girder(s) for truss to truss connections.

7) Provide mechanical connection (by others) of truss to  
bearing plate capable of withstanding 83 lb uplift at joint  
3 and 131 lb uplift at joint 2.  
**LOAD CASE(S)** Standard



Julius Lee PE No. 34869  
MiTek Inc. DBA MiTek USA FL Cert 6634  
16023 Swingley Ridge Rd. Chesterfield, MO 63017  
Date:

May 8, 2024

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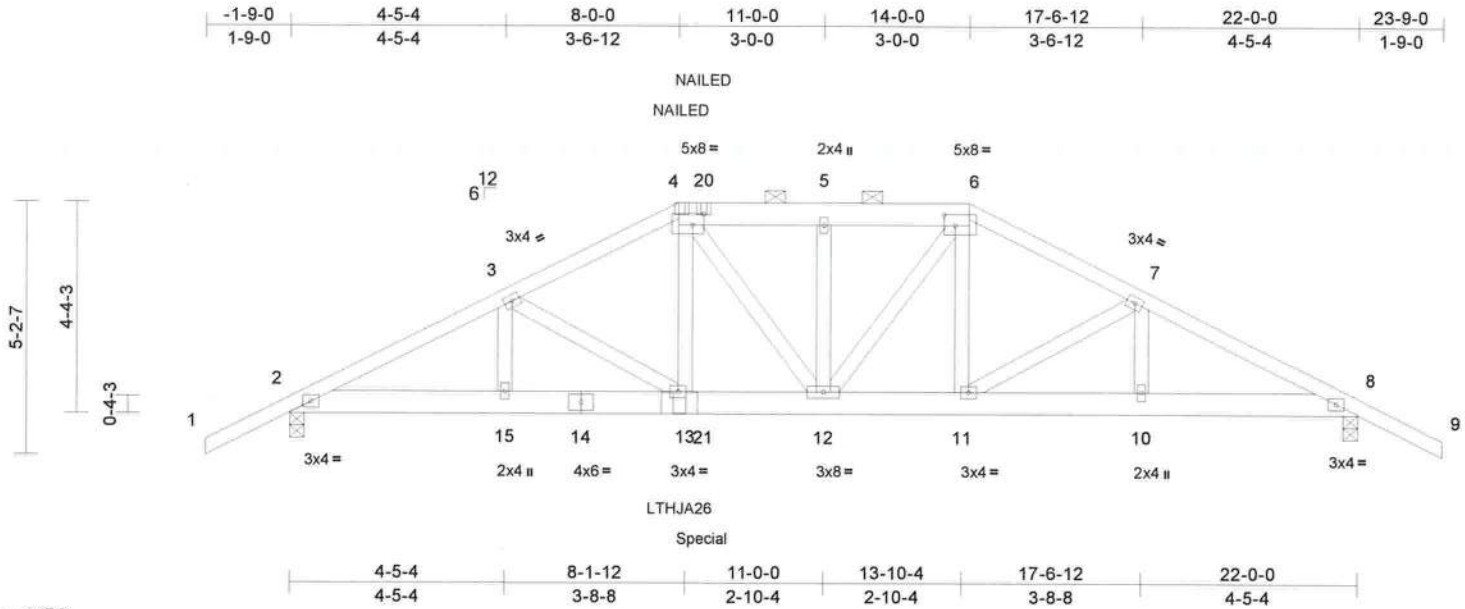


Job 240124-03KM	Truss H05	Truss Type Hip Girder	Qty 1	Ply 2	Stanley & Beverly Pope Job Reference (optional)	T33807907
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Coastal Truss & Vinyl Siding, Patterson, GA - 31577.

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Wed May 08 13:29:34  
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Page: 1

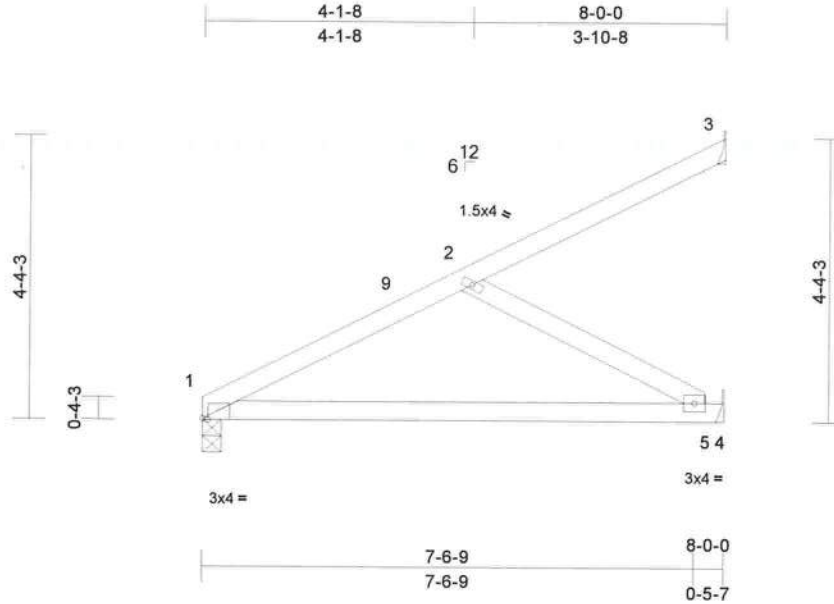


Job 240124-03KM	Truss J08	Truss Type Jack-Partial	Qty 1	Ply 1	Stanley & Beverly Pope Job Reference (optional)	T33807908
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Coastal Truss & Vinyl Siding, Patterson, GA - 31577,

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Wed May 08 13:29:38  
ID:1mRU7RriewYUtu?mLrWGwozs71P-RfC?PsB70Hq3NSgPqnL8w3uITXbGKwRCDoi7J4zJC?f

Page: 1



Scale = 1:35.4

Plate Offsets (X, Y): [1:0-1-0,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	0.44	Vert(LL)	-0.13	5-8	>762	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.48	Vert(CT)	-0.22	5-8	>428	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.00	4	n/a	n/a		
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 32 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 6-0-0 oc purlins.  
BOT CHORD Structural wood sheathing directly applied or 10-0-0 oc bracing.

**REACTIONS**

(size) 1=0-3-8, 3= Mechanical, 4= Mechanical  
Max Horiz 1=146 (LC 12)  
Max Uplift 1=-42 (LC 12), 3=-61 (LC 12), 4=-56 (LC 12)  
Max Grav 1=270 (LC 1), 3=82 (LC 17), 4=196 (LC 17)

**FORCES**

(lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=-317/129, 2-3=-74/30  
BOT CHORD 1-5=-310/288, 4-5=0/0  
WEBS 2-5=-327/352

**NOTES**

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust)  
Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=18ft;  
B=50ft; L=30ft; eave=4ft; Cat. II; Exp C; Enclosed;  
MWFRS (directional) and C-C Zone3 0-0-0 to 3-0-0,  
Zone1 3-0-0 to 7-11-4 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) Building Designer / Project engineer responsible for  
verifying applied roof live load shown covers rain loading  
requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom  
chord live load nonconcurrent with any other live loads.

- 4) \* This truss has been designed for a live load of 20.0psf  
on the bottom chord in all areas where a rectangle  
3-06-00 tall by 2-00-00 wide will fit between the bottom  
chord and any other members.
- 5) Bearings are assumed to be: , Joint 1 SP No.2 .
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to  
bearing plate capable of withstanding 42 lb uplift at joint  
1, 61 lb uplift at joint 3 and 56 lb uplift at joint 4.

LOAD CASE(S) Standard



Julius Lee PE No. 34869  
MiTek Inc. DBA MiTek USA FL Cert 6634  
16023 Swingley Ridge Rd. Chesterfield, MO 63017  
Date:

May 8, 2024

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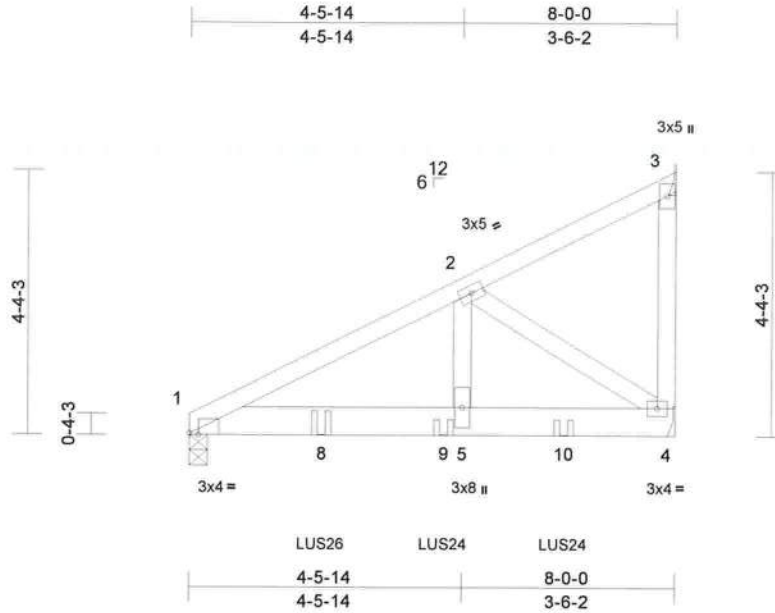


Job 240124-03KM	Truss J09	Truss Type Jack-Partial Girder	Qty 1	Ply 1	Stanley & Beverly Pope Job Reference (optional)	T33807909
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Coastal Truss & Vinyl Siding, Patterson, GA - 31577,

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Wed May 08 13:29:38  
ID:5NKkiiqS7JHnearNEQToQNzs71R-RFC?PsB70Hq3NSgPqnL8w3ulTXbGKwRCDoi7J4zJC?f

Page: 1



Scale = 1:38

Plate Offsets (X, Y): [1:0-1-12,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	0.27	Vert(LL)	-0.04	5-7	>999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.69	Vert(CT)	-0.06	5-7	>999		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.38	Horz(CT)	-0.01	3	n/a		
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MP						Weight: 46 lb	FT = 20%

**LUMBER**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x6 SP No.2  
WEBS 2x4 SP No.2

**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 4-10-1 oc purlins.  
BOT CHORD Structural wood sheathing directly applied or 10-0-0 oc bracing.

**REACTIONS** (size) 1=0-3-8, 3= Mechanical, 4= Mechanical  
Max Horiz 1=145 (LC 21)  
Max Uplift 1=-238 (LC 8), 3=-49 (LC 21), 4=-288 (LC 8)  
Max Grav 1=882 (LC 1), 3=68 (LC 13), 4=901 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=-1332/339, 2-3=-52/24  
BOT CHORD 1-5=-399/1156, 4-5=-399/1156  
WEBS 3-4=0/0, 2-4=-1381/477, 2-5=-295/1079

- NOTES**
- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=18ft; B=50ft; L=30ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
  - 5) Bearings are assumed to be: , Joint 1 SP No.2 .

- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 238 lb uplift at joint 1, 49 lb uplift at joint 3 and 288 lb uplift at joint 4.
- 8) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- 9) Use Simpson Strong-Tie LUS26 (4-10d Girder, 3-10d Truss, Single Ply Girder) or equivalent at 2-2-4 from the left end to connect truss(es) to back face of bottom chord.
- 10) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 4-2-4 from the left end to 6-2-4 to connect truss(es) to back face of bottom chord.
- 11) Fill all nail holes where hanger is in contact with lumber.
- 12) 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: 1-3=-54, 1-4=-14  
Concentrated Loads (lb)  
Vert: 8=-442 (B), 9=-436 (B), 10=-436 (B)



Julius Lee PE No. 34869  
MiTek Inc. DBA MiTek USA FL Cert 6634  
16023 Swingley Ridge Rd. Chesterfield, MO 63017  
Date:

May 8, 2024

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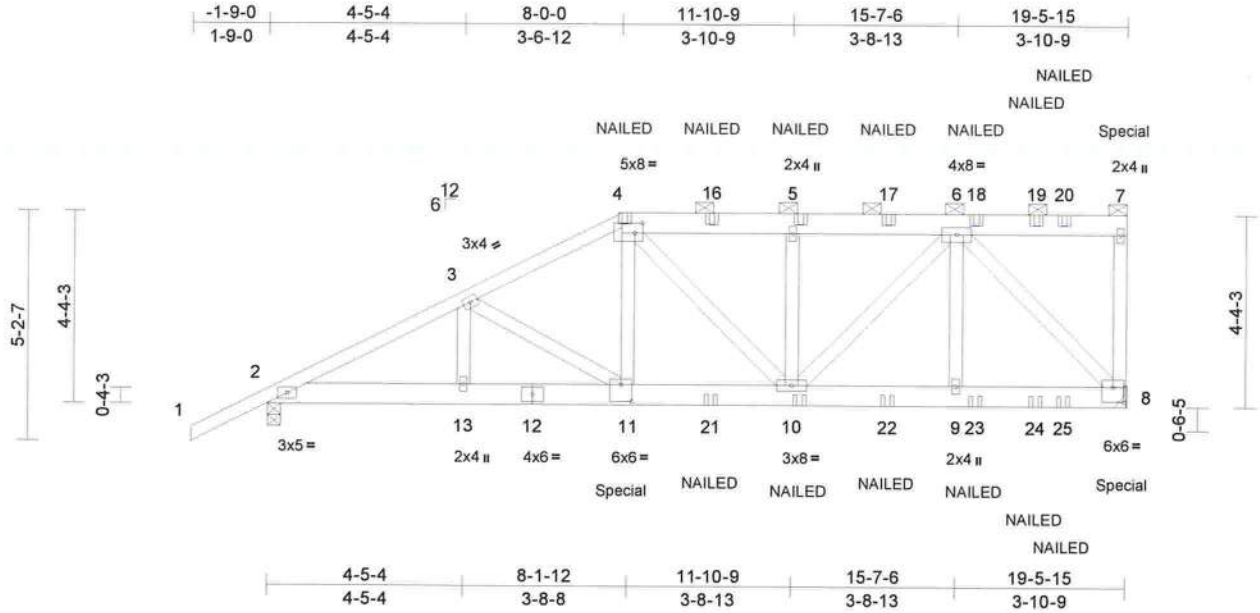
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Job 240124-03KM	Truss H06	Truss Type Half Hip Girder	Qty 1	Ply 1	Stanley & Beverly Pope Job Reference (optional)	T33807910
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Coastal Truss & Vinyl Siding, Patterson, GA - 31577.

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Wed May 08 13:29:34  
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Page: 1



Scale = 1:52.3

Plate Offsets (X, Y): [4:0-2-4,0-2-12], [8:0-3-0,0-4-0], [11:0-3-0,0-4-8]

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)	0.08	10-11	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.56	Vert(CT)	-0.12	10-11	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.96	Horz(CT)	0.04	8	n/a	n/a		
BCDL	7.0	Code	FBC2023/TP12014	Matrix-MS								
											Weight: 139 lb	FT = 20%

LUMBER	
TOP CHORD	2x4 SP No.2 *Except* 4-7:2x6 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.2
BRACING	
TOP CHORD	Structural wood sheathing directly applied or 3-5-2 oc purlins, except end verticals, and 2-0-0 oc purlins (4-11-12 max.): 4-7.
BOT CHORD	Structural wood sheathing directly applied or 7-9-4 oc bracing.
REACTIONS	
(size)	2=0-3-8, 8= Mechanical
Max Horiz	2=199 (LC 7)
Max Uplift	2=-560 (LC 8), 8=-795 (LC 5)
Max Grav	2=1441 (LC 13), 8=2085 (LC 13)
FORCES	
(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/42, 2-3=-2726/943, 3-4=-2493/927, 4-5=-2156/851, 5-6=-2154/850, 6-7=-77/66, 7-8=-193/143
BOT CHORD	2-13=-902/2470, 11-13=-902/2470, 10-11=-859/2271, 9-10=-593/1480, 8-9=-593/1480
WEBS	3-13=0/129, 3-11=-274/136, 4-11=-284/989, 4-10=-127/18, 5-10=-292/190, 6-10=-367/1014, 6-9=-100/508, 6-8=-2088/790

- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=18ft; B=50ft; L=30ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

- 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.
- All bearings are assumed to be SP No.2 .
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 795 lb uplift at joint 8 and 560 lb uplift at joint 2.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 64 lb down and 61 lb up at 19-4-3 on top chord, and 700 lb down and 231 lb up at 8-0-0, and 177 lb down and 44 lb up at 19-4-3 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 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: 1-4=-54, 4-7=-54, 2-8=-14  
Concentrated Loads (lb)  
Vert: 4=-28 (F), 7=-57 (F), 8=-171 (F), 11=-663 (F), 5=-28 (F), 10=-163 (F), 16=-28 (F), 17=-28 (F), 18=-28 (F), 19=-28 (F), 20=-28 (F), 21=-163 (F), 22=-163 (F), 23=-163 (F), 24=-163 (F), 25=-163 (F)



Julius Lee PE No. 34869  
MiTek Inc. DBA MiTek USA FL Cert 6634  
16023 Swingley Ridge Rd. Chesterfield, MO 63017  
Date:

May 8, 2024

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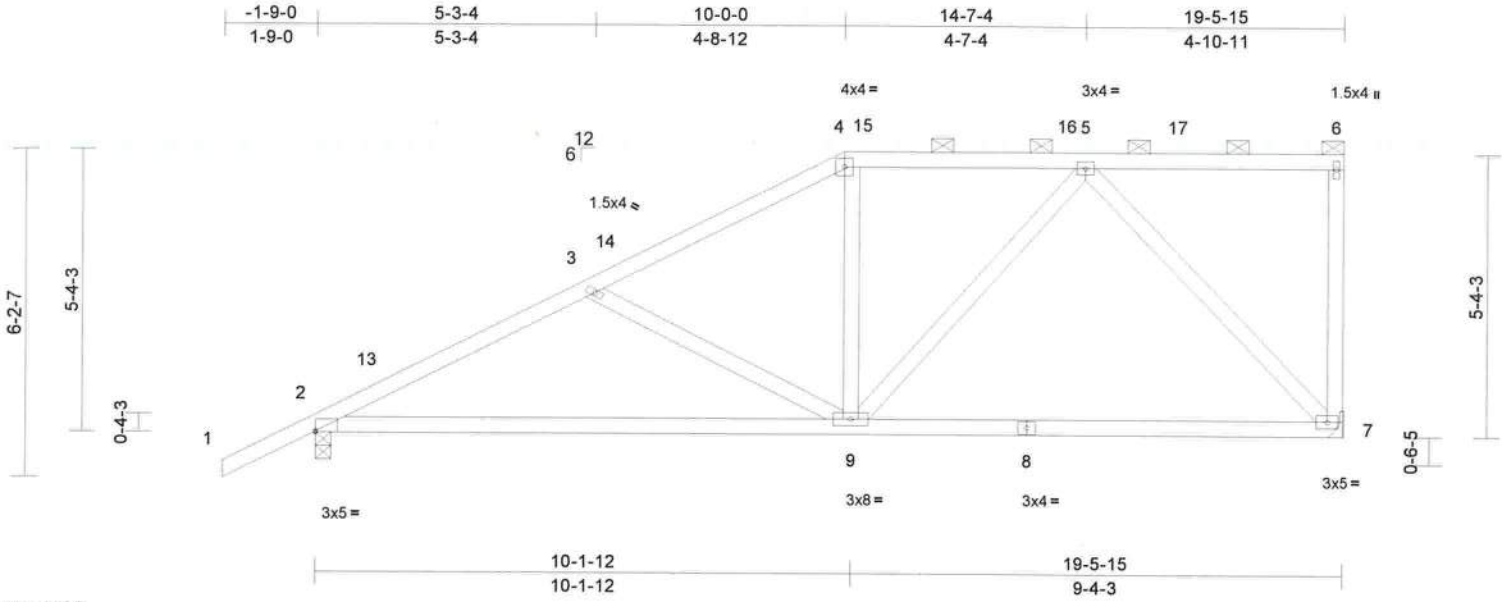


Job 240124-03KM	Truss H07	Truss Type Half Hip	Qty 1	Ply 1	Stanley & Beverly Pope Job Reference (optional)	T33807911
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Coastal Truss & Vinyl Siding, Patterson, GA - 31577.

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Wed May 08 13:29:34  
ID:kQWrf2mJlmfUJXpyQRtdjKzs71W-RfC?PsB70Hq3NSgPqnL8w3uITXbGKwRcDol7J4zJC7f

Page: 1



Scale = 1:43.7  
Plate Offsets (X, Y): [2:Edge,0-0-4]

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)	-0.17	9-12	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.76	Vert(CT)	-0.29	9-12	>789	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.57	Horz(CT)	0.02	7	n/a	n/a		
BCDL	7.0	Code	FBC2023/TP12014	Matrix-MS								
											Weight: 104 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 5-5-3 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.); 4-6.  
BOT CHORD Structural wood sheathing directly applied or 7-6-2 oc bracing.

**REACTIONS** (size) 2=0-3-8, 7= Mechanical  
Max Horiz 2=251 (LC 11)  
Max Uplift 2=-278 (LC 12), 7=-216 (LC 9)  
Max Grav 2=757 (LC 1), 7=654 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/42, 2-3=-1095/411, 3-4=-795/312, 4-5=-653/315, 5-6=-129/128, 6-7=-109/68  
BOT CHORD 2-9=-599/963, 7-9=-315/474  
WEBS 3-9=-357/242, 4-9=0/205, 5-9=-103/306, 5-7=-673/345

- 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) All bearings are assumed to be SP No.2 .
  - 8) Refer to girder(s) for truss to truss connections.
  - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 216 lb uplift at joint 7 and 278 lb uplift at joint 2.
  - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- LOAD CASE(S)** Standard

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=18ft; B=50ft; L=30ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -1-9-0 to 1-3-0, Zone1 1-3-0 to 10-0-0, Zone2 10-0-0 to 14-2-15, Zone1 14-2-15 to 19-4-3 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) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - 4) Provide adequate drainage to prevent water ponding.

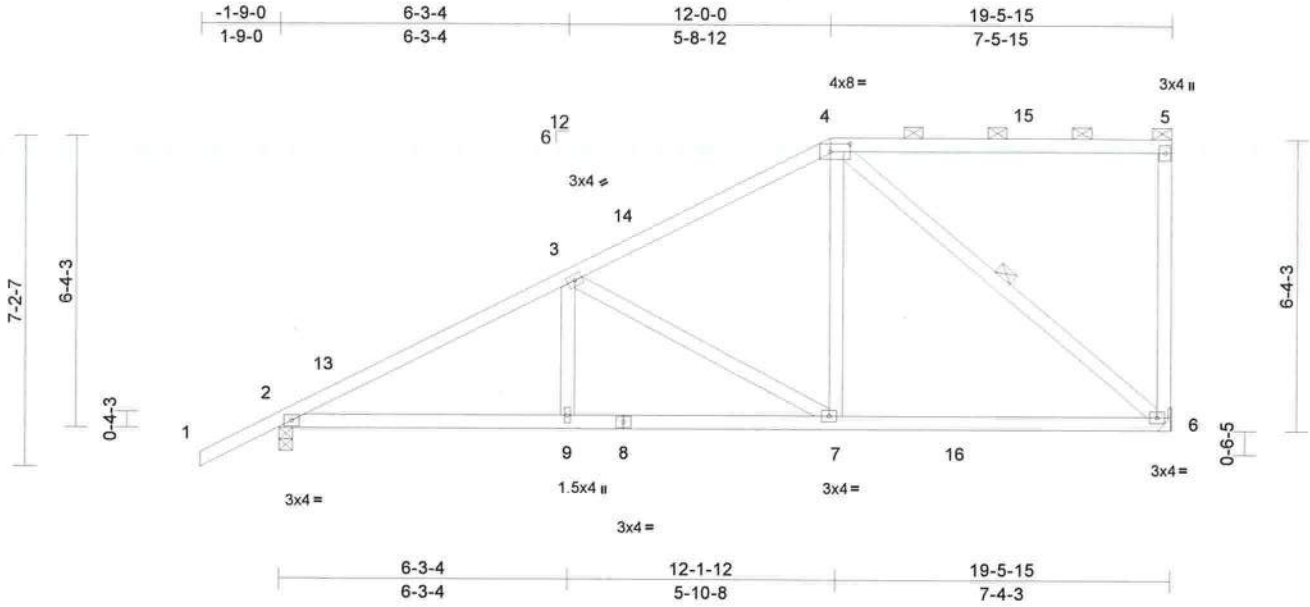


Julius Lee PE No. 34869  
MiTek Inc. DBA MiTek USA FL Cert 6634  
16023 Swingley Ridge Rd. Chesterfield, MO 63017  
Date:

May 8, 2024

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Scale = 1:50.4

Plate Offsets (X, Y): [4:0-5-4,0-2-0]

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	0.67	Vert(LL)	-0.11	6-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.48	Vert(CT)	-0.17	6-7	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.45	Horz(CT)	0.03	6	n/a	n/a		
BCDL	7.0	Code	FBC2023/TP12014	Matrix-MS								
											Weight: 107 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 5-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5.  
 BOT CHORD Structural wood sheathing directly applied or 7-8-4 oc bracing.  
 WEBS 1 Row at midpt 4-6

**REACTIONS** (size) 2=0-3-8, 6= Mechanical  
 Max Horiz 2=298 (LC 11)  
 Max Uplift 2=-276 (LC 12), 6=-215 (LC 9)  
 Max Grav 2=871 (LC 17), 6=786 (LC 17)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=0/42, 2-3=-1280/373, 3-4=-747/300, 4-5=-152/158, 5-6=-194/123  
 BOT CHORD 2-9=-579/1189, 7-9=-579/1189, 6-7=-364/682  
 WEBS 3-9=0/202, 3-7=-591/246, 4-7=-46/521, 4-6=-825/336

- NOTES**
- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=18ft; B=50ft; L=30ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -1-9-0 to 1-3-0, Zone1 1-3-0 to 12-0-0, Zone2 12-0-0 to 16-2-15, Zone1 16-2-15 to 19-4-3 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) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - 3) Provide adequate drainage to prevent water ponding.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 7.0psf.
  - 6) All bearings are assumed to be SP No.2 .
  - 7) Refer to girder(s) for truss to truss connections.
  - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 276 lb uplift at joint 2 and 215 lb uplift at joint 6.
  - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- LOAD CASE(S)** Standard



Julius Lee PE No. 34869  
 MiTek Inc. DBA MiTek USA FL Cert 6634  
 16023 Swingle Ridge Rd. Chesterfield, MO 63017  
 Date:

May 8, 2024

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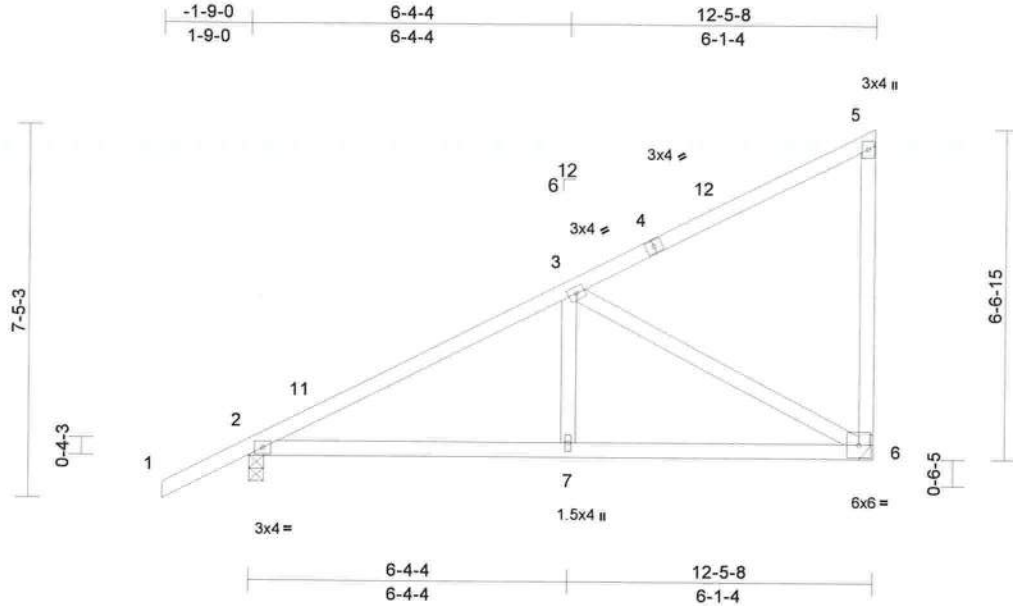


Job 240124-03KM	Truss M01	Truss Type Monopitch	Qty 14	Ply 1	Stanley & Beverly Pope Job Reference (optional)	T33807913
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Coastal Truss & Vinyl Siding, Patterson, GA - 31577.

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Wed May 08 13:29:38  
ID:goeb3jnZqOvCn76oYHw5plz371U-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKwRCD0i7J4zJC?f

Page: 1



Scale = 1:46.1

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	0.42	Vert(LL)	0.03	7-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.33	Vert(CT)	-0.06	7-10	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.01	6	n/a	n/a		
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MS								
											Weight: 65 lb	FT = 20%

**LUMBER**

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

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 204 lb uplift at joint 2 and 132 lb uplift at joint 6.  
**LOAD CASE(S)** Standard

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.  
BOT CHORD Structural wood sheathing directly applied or 8-6-4 oc bracing.

**REACTIONS** (size) 2=0-3-8, 6= Mechanical  
Max Horiz 2=304 (LC 11)  
Max Uplift 2=-204 (LC 12), 6=-132 (LC 9)  
Max Grav 2=520 (LC 1), 6=436 (LC 17)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/42, 2-3=-586/263, 3-5=-210/152, 5-6=-148/250  
BOT CHORD 2-7=-454/532, 6-7=-454/532  
WEBS 3-7=0/241, 3-6=-544/394

**NOTES**

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust)  
Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=18ft;  
B=50ft; L=30ft; eave=4ft; Cat. II; Exp C; Enclosed;  
MWFRS (directional) and C-C Zone3 -1-9-0 to 1-3-0,  
Zone1 1-3-0 to 12-3-12 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) Building Designer / Project engineer responsible for  
verifying applied roof live load shown covers rain loading  
requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom  
chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf  
on the bottom chord in all areas where a rectangle  
3-06-00 tall by 2-00-00 wide will fit between the bottom  
chord and any other members.
- 5) All bearings are assumed to be SP No.2 .
- 6) Refer to girder(s) for truss to truss connections.



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Date:

May 8, 2024

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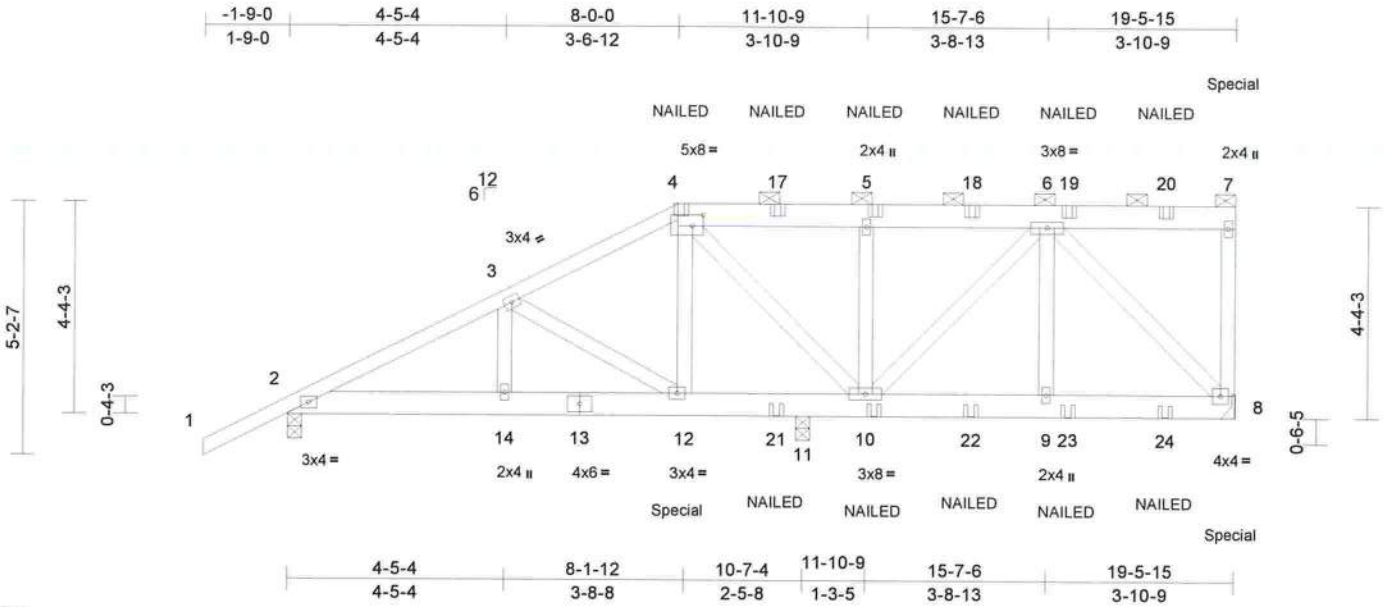
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Job 240124-03KM	Truss H09	Truss Type Half Hip Girder	Qty 1	Ply 1	Stanley & Beverly Pope Job Reference (optional)	T33807914
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Coastal Truss & Vinyl Siding, Patterson, GA - 31577.

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Wed May 08 13:29:35  
ID:OKFNA8vrTSAzftj8O5RCszs71K-RFC?PsB70Hq3NSgPqnlBw3ulTxhGKWrCDoi7J4zJC7f

Page: 1



Scale = 1:47.5

Plate Offsets (X, Y): [4:0-2-12,0-2-12]

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)	0.04	12-14	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.88	Vert(CT)	-0.06	12-14	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.40	Horz(CT)	0.02	8	n/a	n/a		
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MS								
											Weight: 139 lb	FT = 20%

**LUMBER**  
TOP CHORD 2x4 SP No.2 \*Except\* 4-7:2x6 SP No.2  
BOT CHORD 2x6 SP No.2  
WEBS 2x4 SP No.2

**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 5-3-3 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.); 4-7.  
BOT CHORD Structural wood sheathing directly applied or 10-0-0 oc bracing.

**REACTIONS** (size) 2=0-3-8, 8= Mechanical, 11=0-3-8  
Max Horiz 2=199 (LC 7)  
Max Uplift 2=315 (LC 8), 8=436 (LC 5), 11=523 (LC 8)  
Max Grav 2=756 (LC 1), 8=1075 (LC 15), 11=1501 (LC 13)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/42, 2-3=-1217/409, 3-4=-843/342, 4-5=-483/244, 5-6=-481/242, 6-7=-71/62, 7-8=-174/127  
BOT CHORD 2-14=-428/1109, 12-14=-428/1109, 11-12=-332/757, 10-11=-332/757, 9-10=-289/628, 8-9=-289/628  
WEBS 3-14=-13/230, 3-12=-428/149, 4-12=-98/455, 4-10=-437/128, 5-10=-298/195, 6-10=-243/80, 6-9=-128/551, 6-8=-866/357

**NOTES**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=18ft; B=50ft; L=30ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.
- All bearings are assumed to be SP No.2 .
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 436 lb uplift at joint 8, 315 lb uplift at joint 2 and 523 lb uplift at joint 11.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 64 lb down and 61 lb up at 19-4-3 on top chord, and 700 lb down and 231 lb up at 8-0-0, and 177 lb down and 44 lb up at 19-4-3 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 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: 1-4=-54, 4-7=-54, 2-8=-14  
Concentrated Loads (lb)  
Vert: 4=-28 (B), 7=-57 (B), 8=-171 (B), 12=-663 (B), 5=-28 (B), 10=-163 (B), 17=-28 (B), 18=-28 (B), 19=-28 (B), 20=-28 (B), 21=-163 (B), 22=-163 (B), 23=-163 (B), 24=-163 (B)



Julius Lee PE No. 34869  
MiTek Inc. DBA MiTek USA FL Cert 6634  
16023 Swingley Ridge Rd. Chesterfield, MO 63017  
Date:

May 8, 2024

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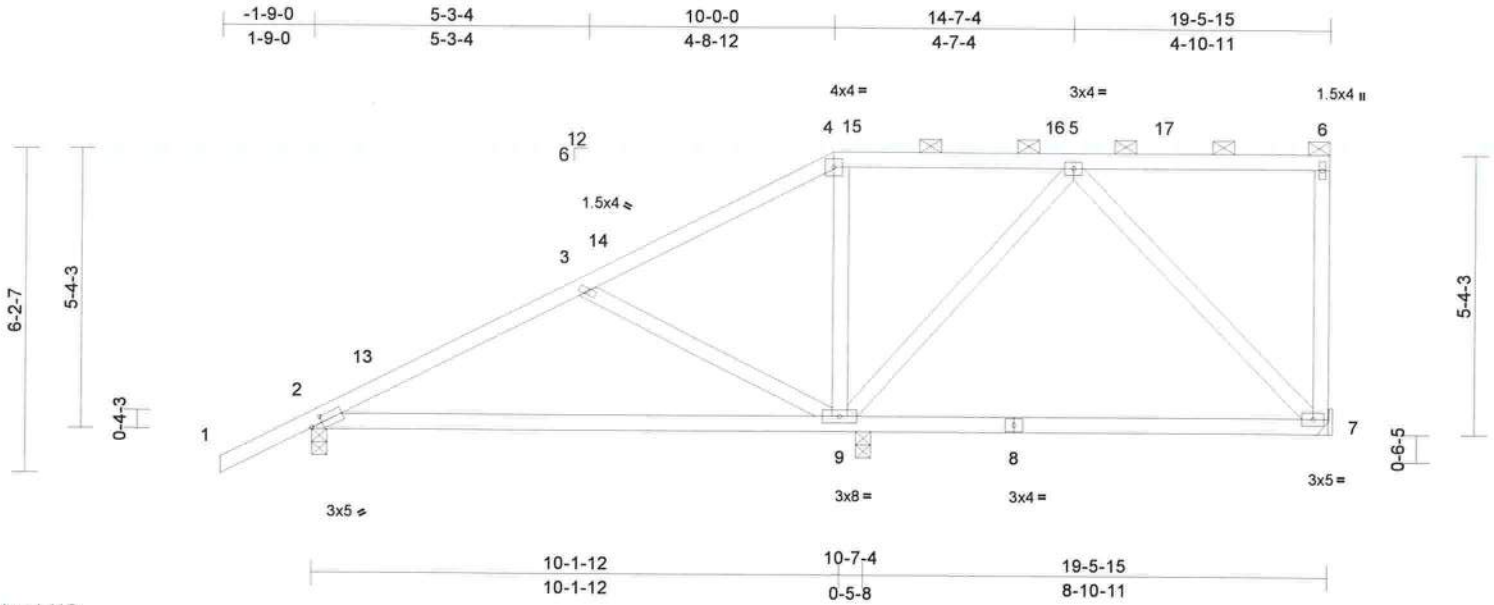


Job	Truss	Truss Type	Qty	Ply	Stanley & Beverly Pope	
240124-03KM	H10	Half Hip	1	1	Job Reference (optional)	T33807915

Coastal Truss & Vinyl Siding, Patterson, GA - 31577,

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Wed May 08 13:29:35  
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Page: 1



Scale = 1:44.2

Plate Offsets (X, Y): [2:0-2-10,0-1-8]

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	0.43	Vert(LL)	-0.16	9-12	>765	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.67	Vert(CT)	-0.28	9-12	>440	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.01	7	n/a	n/a		
BCDL	7.0	Code	FBC2023/TP12014	Matrix-MS								
											Weight: 104 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 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.); 4-6.  
BOT CHORD Structural wood sheathing directly applied or 10-0-0 oc bracing.

**REACTIONS** (size) 2=0-3-8, 7= Mechanical, 9=0-3-8  
Max Horiz 2=251 (LC 11)  
Max Uplift 2=-161 (LC 12), 7=-94 (LC 9), 9=-246 (LC 12)  
Max Grav 2=375 (LC 1), 7=279 (LC 24), 9=803 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/42, 2-3=-262/130, 3-4=-207/184, 4-5=-131/141, 5-6=-129/128, 6-7=-108/68  
BOT CHORD 2-9=-256/287, 7-9=-133/153  
WEBS 3-9=-366/246, 4-9=-272/232, 5-9=-291/162, 5-7=-164/95

- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=18ft; B=50ft; L=30ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -1-9-0 to 1-3-0, Zone1 1-3-0 to 10-0-0, Zone2 10-0-0 to 14-2-15, Zone1 14-2-15 to 19-4-3 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
  - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

- 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.
  - All bearings are assumed to be SP No.2.
  - Refer to girder(s) for truss to truss connections.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 161 lb uplift at joint 2, 246 lb uplift at joint 9 and 94 lb uplift at joint 7.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- LOAD CASE(S)** Standard



Julius Lee PE No. 34869  
MiTek Inc. DBA MiTek USA FL Cert 6634  
16023 Swingley Ridge Rd. Chesterfield, MO 63017  
Date:

May 8, 2024

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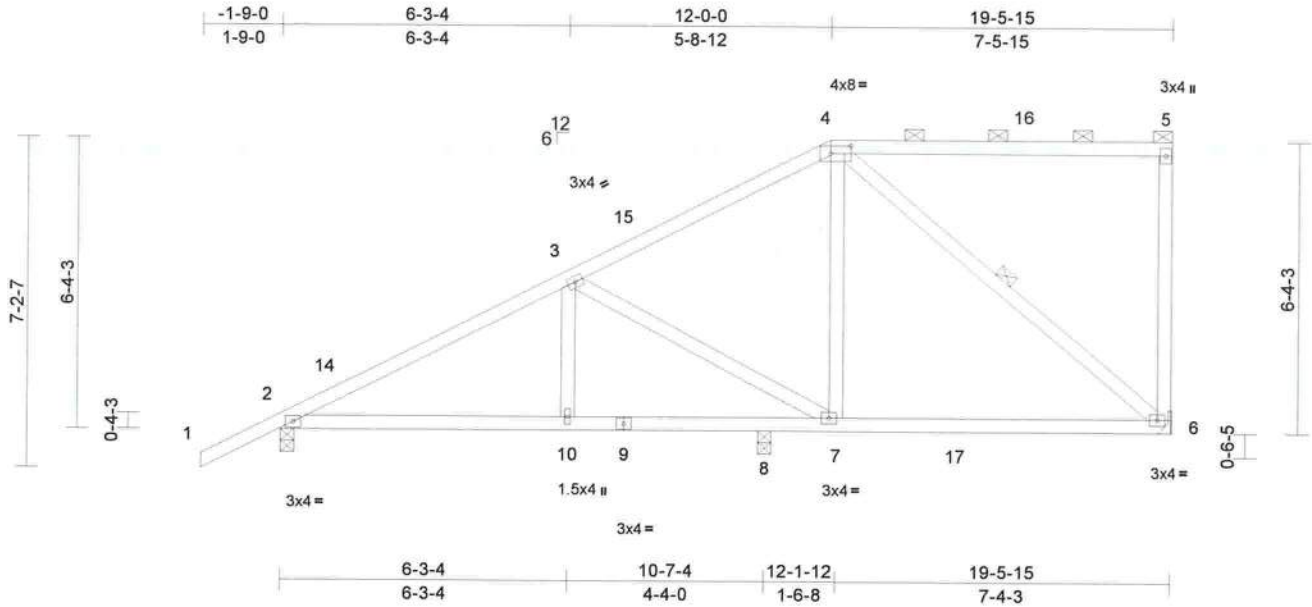
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Job	Truss	Truss Type	Qty	Ply	Stanley & Beverly Pope	T33807916
240124-03KM	H11	Half Hip	1	1	Job Reference (optional)	

Coastal Truss & Vinyl Siding, Patterson, GA - 31577,

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Wed May 08 13:29:35  
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Page: 1



Scale = 1:50.4

Plate Offsets (X, Y): [4:0-5-4,0-2-0]

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	Vert(LL)	-0.11	6-7	>960	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	Vert(CT)	-0.18	6-7	>584	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	Horz(CT)	0.02	6	n/a	n/a		
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MS							
										Weight: 107 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 5-3-6 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.); 4-5.
BOT CHORD	Structural wood sheathing directly applied or 8-0-8 oc bracing.
WEBS	1 Row at midpt 4-6
REACTIONS	
(size)	2=0-3-8, 6= Mechanical, 8=0-3-8
Max Horiz	2=298 (LC 11)
Max Uplift	2=-263 (LC 12), 6=-193 (LC 9), 8=-41 (LC 9)
Max Grav	2=815 (LC 17), 6=718 (LC 17), 8=124 (LC 17)
FORCES	
(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/42, 2-3=-1134/343, 3-4=-659/278, 4-5=-152/158, 5-6=-198/123
BOT CHORD	2-10=-512/1070, 8-10=-512/1070, 7-8=-512/1070, 6-7=-312/591
WEBS	3-10=0/181, 3-7=-555/226, 4-7=-20/402, 4-6=-705/268

**NOTES**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust)  
Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=18ft; B=50ft; L=30ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -1-9-0 to 1-3-0, Zone1 1-3-0 to 12-0-0, Zone2 12-0-0 to 16-2-15, Zone1 16-2-15 to 19-4-3 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

- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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, with BCDL = 7.0psf.
- All bearings are assumed to be SP No.2 .
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 263 lb uplift at joint 2, 193 lb uplift at joint 6 and 41 lb uplift at joint 8.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



Julius Lee PE No. 34869  
MiTek Inc. DBA MiTek USA FL Cert 6634  
16023 Swingley Ridge Rd. Chesterfield, MO 63017  
Date:

May 8, 2024

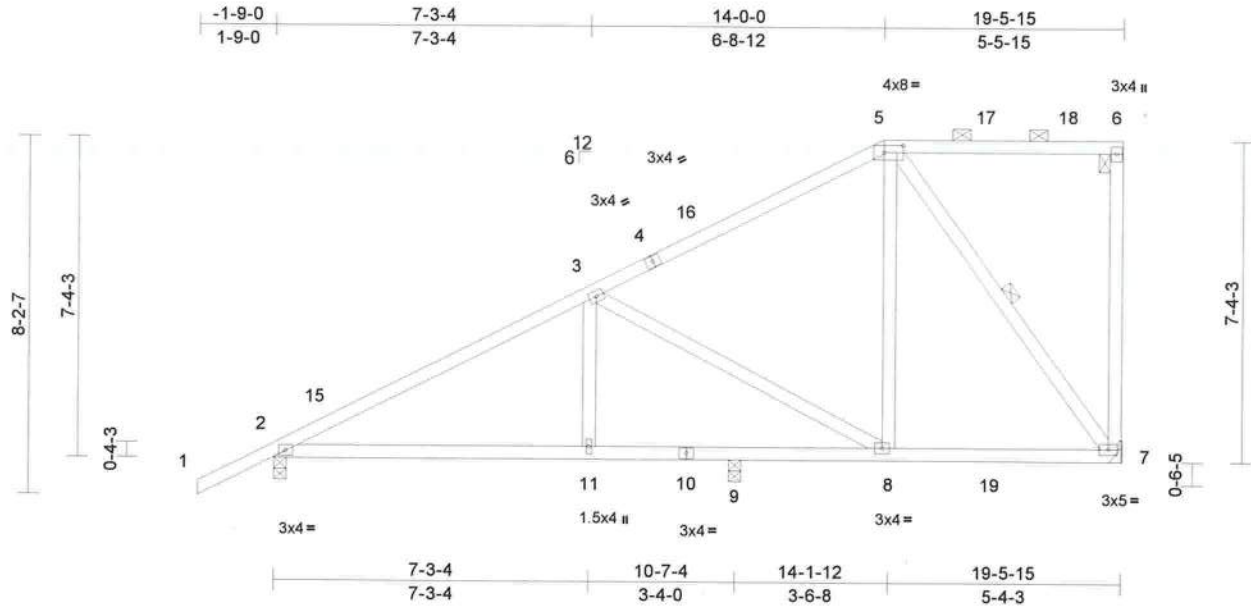
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Job 240124-03KM	Truss H12	Truss Type Half Hip	Qty 1	Ply 1	Stanley & Beverly Pope	T33807917
Coastal Truss & Vinyl Siding, Patterson, GA - 31577,					Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Wed May 08 13:29:35	
					ID:Cc4DsNnx34nL9zXc?apSgXzs71V-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKwRcDol7J4zJC7f	



Scale = 1:52.9

Plate Offsets (X, Y): [5:0-5-4,0-2-0]

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	0.51	Vert(LL)	-0.11	11-14	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.52	Vert(CT)	-0.18	11-14	>703	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.02	7	n/a	n/a		
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MS								
											Weight: 112 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 5-2-2 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.); 5-6.  
BOT CHORD Structural wood sheathing directly applied or 7-8-14 oc bracing.  
WEBS 1 Row at midpt 5-7

**REACTIONS** (size) 2=0-3-8, 7= Mechanical, 9=0-3-8  
Max Horiz 2=344 (LC 11)  
Max Uplift 2=-278 (LC 12), 7=-215 (LC 9)  
Max Grav 2=822 (LC 17), 7=750 (LC 17), 9=98 (LC 17)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/42, 2-3=-1099/377, 3-5=-538/274, 5-6=-162/174, 6-7=-142/101  
BOT CHORD 2-11=-560/1050, 9-11=-560/1050, 8-9=-560/1050, 7-8=-308/458  
WEBS 3-11=0/207, 3-8=-682/286, 5-8=-98/466, 5-7=-702/326

- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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, with BCDL = 7.0psf.
- All bearings are assumed to be SP No.2 .
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 215 lb uplift at joint 7 and 278 lb uplift at joint 2.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



Julius Lee PE No. 34869  
MiTek Inc. DBA MiTek USA FL Cert 6634  
16023 Swingley Ridge Rd. Chesterfield, MO 63017  
Date:

May 8, 2024

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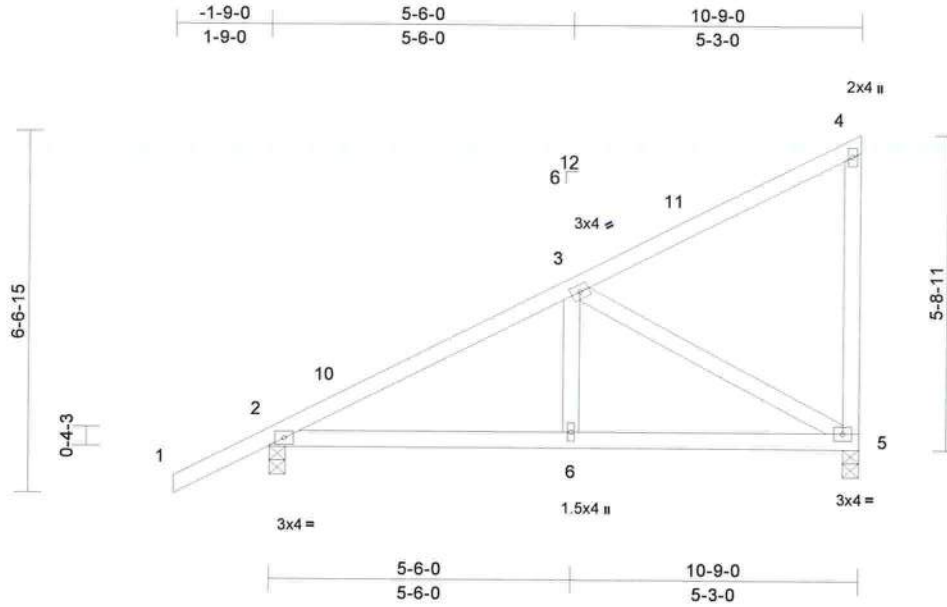
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Job 240124-03KM	Truss H13	Truss Type Monopitch	Qty 1	Ply 1	Stanley & Beverly Pope Job Reference (optional)	T33807918
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Coastal Truss & Vinyl Siding, Patterson, GA - 31577,

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Wed May 08 13:29:35  
ID: Cc4DsNnx34nL9zXc?aPsGXzs71V-RIC?PsB70Hq3NSgPqnL8w3ulTXbGKWRCDoi7J4zJC?f

Page: 1



Scale = 1:42.1

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	0.28	Vert(LL)	-0.02	6-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.25	Vert(CT)	-0.04	6-9	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.01	5	n/a	n/a		
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 56 lb	FT = 20%

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

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 190 lb uplift at joint 2 and 114 lb uplift at joint 5.

**LOAD CASE(S)** Standard

**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.  
BOT CHORD Structural wood sheathing directly applied or 9-8-9 oc bracing.

**REACTIONS** (size) 2=0-3-8, 5=0-3-8  
Max Horiz 2=265 (LC 11)  
Max Uplift 2=-190 (LC 12), 5=-114 (LC 9)  
Max Grav 2=463 (LC 1), 5=374 (LC 17)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/42, 2-3=-494/210, 3-4=-167/134, 4-5=-130/178  
BOT CHORD 2-6=-356/466, 5-6=-356/466  
WEBS 3-6=0/206, 3-5=-459/301

- NOTES**
- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BC DL=4.2psf; h=18ft; B=50ft; L=30ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -1-9-0 to 1-3-0, Zone1 1-3-0 to 10-7-4 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) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
  - 5) All bearings are assumed to be SP No.2.



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Date:

May 8, 2024

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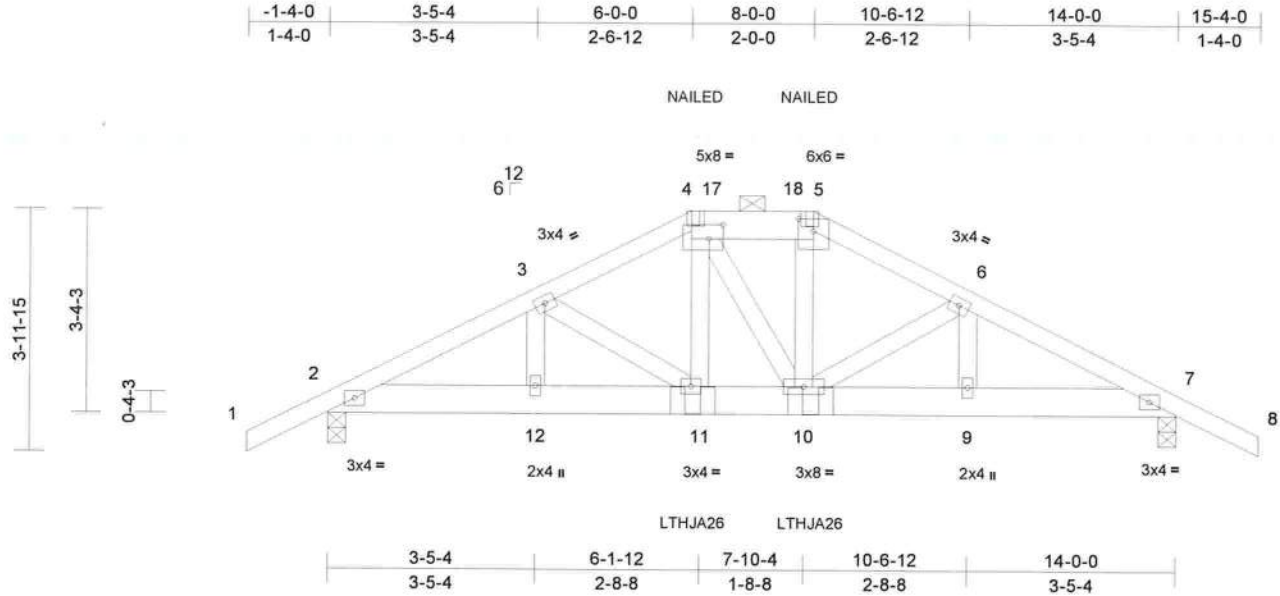


Job	Truss	Truss Type	Qty	Ply	Stanley & Beverly Pope	T33807919
240124-03KM	H22	Hip Girder	1	1	Job Reference (optional)	

Coastal Truss & Vinyl Siding, Patterson, GA - 31577.

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Wed May 08 13:29:37  
 ID:Zat6v5q4tcPdFkQZn7?1zbzs71Q-RC?PsB70Hq3NSgPqnL8w3uITXbGKwRCdoi7J4zJC7f

Page: 1



Scale = 1:38.1

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

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	0.13	Vert(LL)	-0.04	11	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.37	Vert(CT)	-0.07	11	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.11	Horz(CT)	0.02	7	n/a	n/a		
BCDL	7.0	Code	FBC2023/TP12014	Matrix-MS								
											Weight: 86 lb	FT = 20%

**LUMBER**  
 TOP CHORD 2x4 SP No.2 \*Except\* 4-5:2x6 SP No.2  
 BOT CHORD 2x6 SP No.2  
 WEBS 2x4 SP No.2

**BRACING**  
 TOP CHORD Structural wood sheathing directly applied or 4-5-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 4-5.  
 BOT CHORD Structural wood sheathing directly applied or 10-0-0 oc bracing.

**REACTIONS** (size) 2=0-3-8, 7=0-3-8  
 Max Horiz 2=94 (LC 6)  
 Max Uplift 2=350 (LC 8), 7=350 (LC 8)  
 Max Grav 2=962 (LC 1), 7=962 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=0/32, 2-3=-1729/541, 3-4=-1558/530, 4-5=-1403/501, 5-6=-1572/533, 6-7=-1724/540, 7-8=0/32  
 BOT CHORD 2-12=-403/1562, 11-12=-403/1562, 10-11=-350/1415, 9-10=-402/1522, 7-9=-402/1522  
 WEBS 3-12=0/102, 3-11=-200/92, 4-11=-111/472, 4-10=-26/76, 5-10=-115/483, 6-10=-180/102, 6-9=0/88

- 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.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 350 lb uplift at joint 2 and 350 lb uplift at joint 7 .
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Use Simpson Strong-Tie LTHJA26 (LTHJA26 on 1 ply, Left Hand Hip) or equivalent at 6-0-6 from the left end to connect truss(es) to front face of bottom chord.
- Use Simpson Strong-Tie LTHJA26 (LTHJA26 on 1 ply, Right Hand Hip) or equivalent at 7-11-10 from the left end to connect truss(es) to front face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.
- "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 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, 4-5=-54, 5-8=-54, 2-7=-14  
 Concentrated Loads (lb)  
 Vert: 4=-82 (F), 5=-82 (F), 11=-332 (F), 10=-332 (F)

- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=18ft; B=50ft; L=30ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - Provide adequate drainage to prevent water ponding.



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

May 8, 2024

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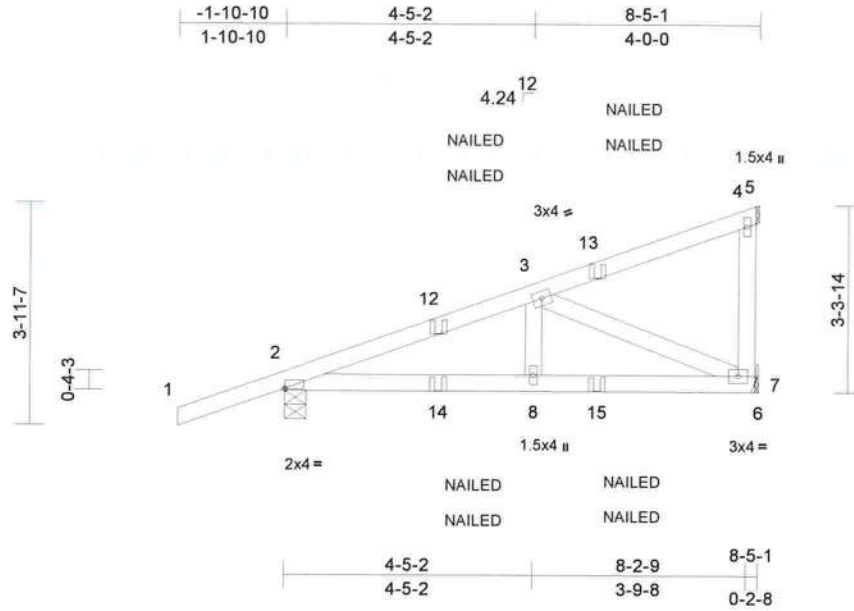
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Job 240124-03KM	Truss CJ04	Truss Type Diagonal Hip Girder	Qty 4	Ply 1	Stanley & Beverly Pope Job Reference (optional)	T33807920
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Coastal Truss & Vinyl Siding, Patterson, GA - 31577.

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Wed May 08 13:29:32  
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Page: 1



Scale = 1:41.1

Plate Offsets (X, Y): [2:0-0-1,0-0-3]

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)	-0.01	8-11	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.21	Vert(CT)	-0.02	7-8	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.14	Horz(CT)	0.01	7	n/a	n/a		
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MP								
											Weight: 41 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 6-0-0 oc purlins, except end verticals.  
BOT CHORD Structural wood sheathing directly applied or 10-0-0 oc bracing.

**REACTIONS** (size) 2=0-4-9, 7= Mechanical  
Max Horiz 2=150 (LC 7)  
Max Uplift 2=-185 (LC 8), 7=-93 (LC 5)  
Max Grav 2=409 (LC 1), 7=318 (LC 13)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/34, 2-3=-575/111, 3-4=-102/54, 4-5=-1/0, 4-7=-89/57  
BOT CHORD 2-8=-150/483, 7-8=-150/483, 6-7=0/0  
WEBS 3-8=0/175, 3-7=-507/143

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 185 lb uplift at joint 2 and 93 lb uplift at joint 7.
  - "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
  - 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: 1-4=-54, 4-5=-14, 6-9=-14  
Concentrated Loads (lb)  
Vert: 13=-19 (F=-9, B=-9), 14=1 (F=0, B=0), 15=-32 (F=-16, B=-16)

- NOTES**
- Wind: ASCE 7-22; Vult=130mph (3-second gust)  
Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=18ft;  
B=50ft; L=30ft; eave=4ft; Cat. II; Exp C; Enclosed;  
MWFRS (directional); cantilever left and right exposed ;  
end vertical left and right exposed; Lumber DOL=1.60  
plate grip DOL=1.60
  - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - 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.
  - Bearings are assumed to be: Joint 2 SP No.2 .
  - Refer to girder(s) for truss to truss connections.



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16023 Swingle Ridge Rd. Chesterfield, MO 63017  
Date:

May 8, 2024

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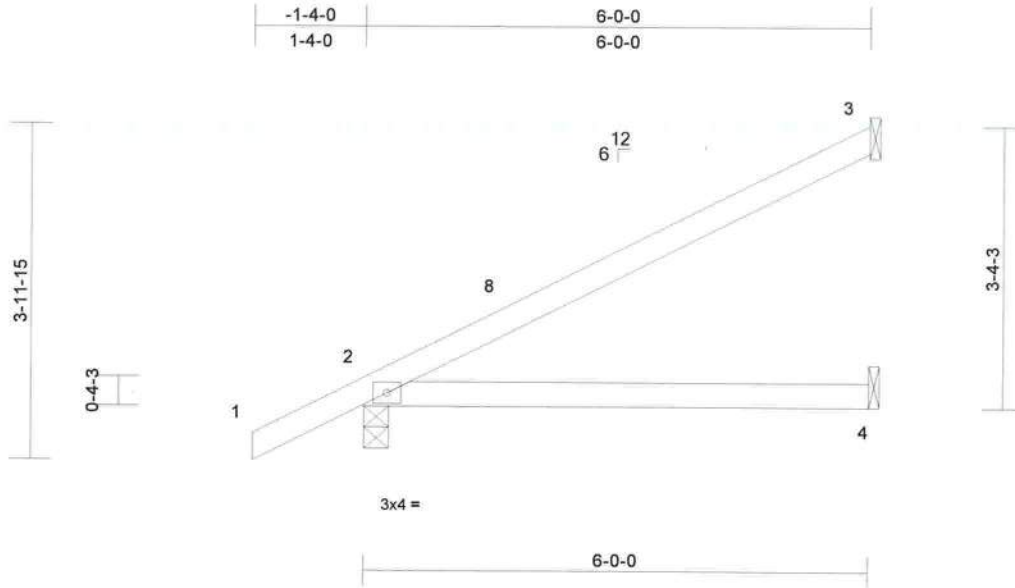


Job	Truss	Truss Type	Qty	Ply	Stanley & Beverly Pope	T33807921
240124-03KM	J11	Jack-Open	4	1	Job Reference (optional)	

Coastal Truss & Vinyl Siding, Patterson, GA - 31577.

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Wed May 08 13:29:38  
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Page: 1



Scale = 1:27.5

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	0.55	Vert(LL)	0.09	4-7	>795	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.41	Vert(CT)	-0.10	4-7	>715	180	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a	
BCDL	7.0	Code	FBC2023/TP12014	Matrix-MP							
										Weight: 21 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 6-0-0 oc purlins.  
BOT CHORD Structural wood sheathing directly applied or 10-0-0 oc bracing.

**REACTIONS** (size) 2=0-3-8, 3=Mechanical, 4=Mechanical  
Max Horiz 2=147 (LC 12)  
Max Uplift 2=-104 (LC 12), 3=-86 (LC 12)  
Max Grav 2=282 (LC 1), 3=141 (LC 17), 4=92 (LC 3)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/32, 2-3=-171/61  
BOT CHORD 2-4=-63/95

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 86 lb uplift at joint 3 and 104 lb uplift at joint 2.

**LOAD CASE(S)** Standard

- NOTES**
- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust)  
Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=18ft; B=50ft; L=30ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3-1-4-0 to 1-8-0, Zone1 1-8-0 to 5-11-4 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) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
  - 5) Bearings are assumed to be: , Joint 2 SP No.2 .
  - 6) Refer to girder(s) for truss to truss connections.



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Date:

May 8, 2024

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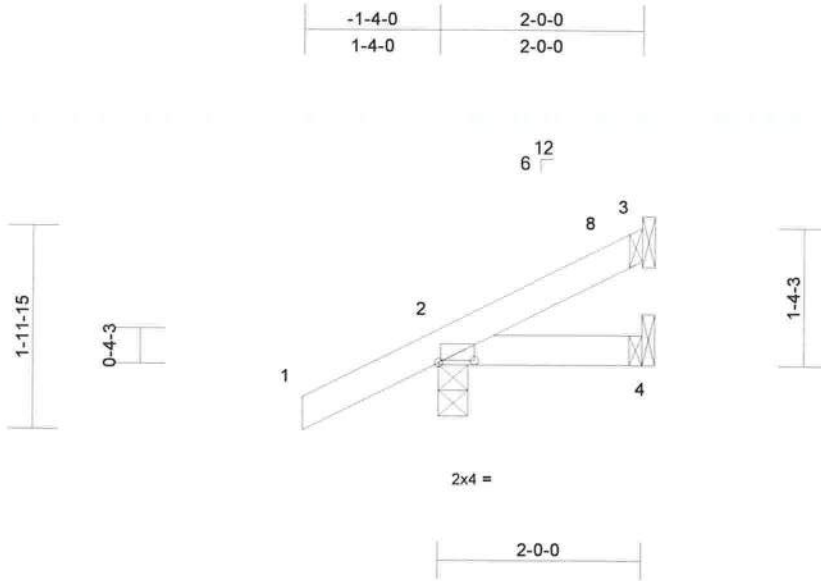
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Job	Truss	Truss Type	Qty	Ply	Stanley & Beverly Pope	T33807922
240124-03KM	J12	Jack-Open	8	1	Job Reference (optional)	

Coastal Truss & Vinyl Siding, Patterson, GA - 31577.

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Wed May 08 13:29:38  
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Page: 1



Scale = 1:22.7

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

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	0.19	Vert(LL)	0.00	4-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.03	Vert(CT)	0.00	4-7	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	7.0	Code	FBC2023/TP12014	Matrix-MP							Weight: 9 lb	FT = 20%

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

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 101 lb uplift at joint 2 and 15 lb uplift at joint 3.

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

**LOAD CASE(S)** Standard

**REACTIONS** (size) 2=0-3-8, 3=Mechanical, 4=Mechanical  
Max Horiz 2=74 (LC 12)  
Max Uplift 2=-101 (LC 12), 3=-15 (LC 12)  
Max Grav 2=164 (LC 1), 3=36 (LC 17), 4=27 (LC 3)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/32, 2-3=-120/31  
BOT CHORD 2-4=-32/95

- NOTES**
- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=18ft; B=50ft; L=30ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 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) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
  - 5) Bearings are assumed to be: Joint 2 SP No.2
  - 6) Refer to girder(s) for truss to truss connections.



Julius Lee PE No. 34869  
MiTek Inc. DBA MiTek USA FL Cert 6634  
16023 Swingley Ridge Rd. Chesterfield, MO 63017  
Date:

May 8, 2024

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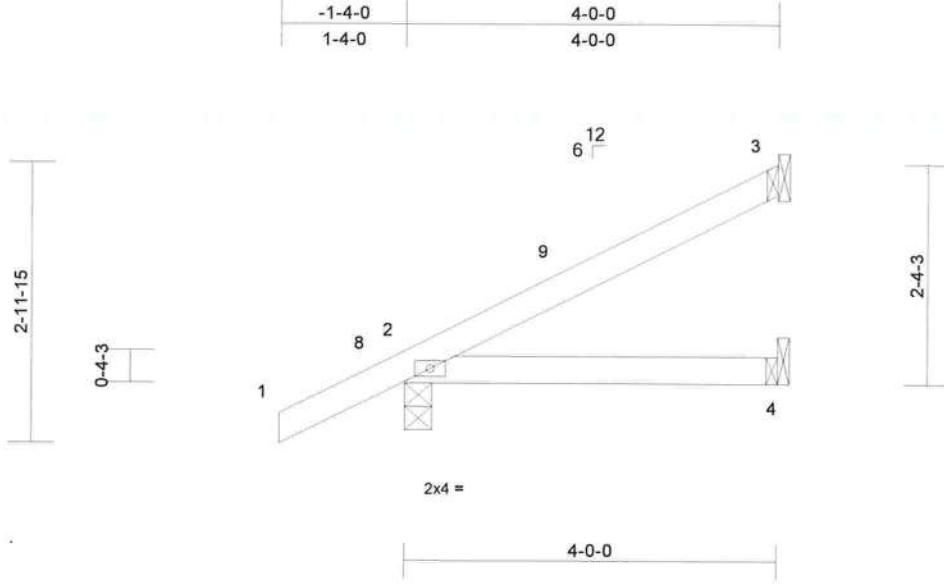


Job 240124-03KM	Truss J13	Truss Type Jack-Open	Qty 8	Ply 1	Stanley & Beverly Pope Job Reference (optional)	T33807923
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Coastal Truss & Vinyl Siding, Patterson, GA - 31577,

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Wed May 08 13:29:38  
ID:goeb3jnZqOvCn76oYHw5plz71U-RFC?PsB70Hq3NSgPqnLw3ulTXbGKwRCDoi7J4zJC?F

Page: 1



Scale = 1:24.7

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	0.21	Vert(LL)	0.02	4-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.17	Vert(CT)	-0.02	4-7	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 15 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 4-0-0 oc purlins.  
BOT CHORD Structural wood sheathing directly applied or 10-0-0 oc bracing.

**REACTIONS** (size) 2=0-3-8, 3= Mechanical, 4= Mechanical  
Max Horiz 2=110 (LC 12)  
Max Uplift 2=-98 (LC 12), 3=-52 (LC 12)  
Max Grav 2=218 (LC 1), 3=90 (LC 17), 4=59 (LC 3)

**FORCES** (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/32, 2-3=-144/41  
BOT CHORD 2-4=-27/67

**NOTES**

- Wind: ASCE 7-22; Vult=130mph (3-second gust)  
Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=18ft;  
B=50ft; L=30ft; eave=4ft; Cat. II; Exp C; Enclosed;  
MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0,  
Zone1 1-8-0 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
- Building Designer / Project engineer responsible for  
verifying applied roof live load shown covers rain loading  
requirements specific to the use of this truss component.
- 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.
- Bearings are assumed to be: , Joint 2 SP No.2 .
- Refer to girder(s) for truss to truss connections.

7) Provide mechanical connection (by others) of truss to  
bearing plate capable of withstanding 52 lb uplift at joint  
3 and 98 lb uplift at joint 2.

**LOAD CASE(S)** Standard



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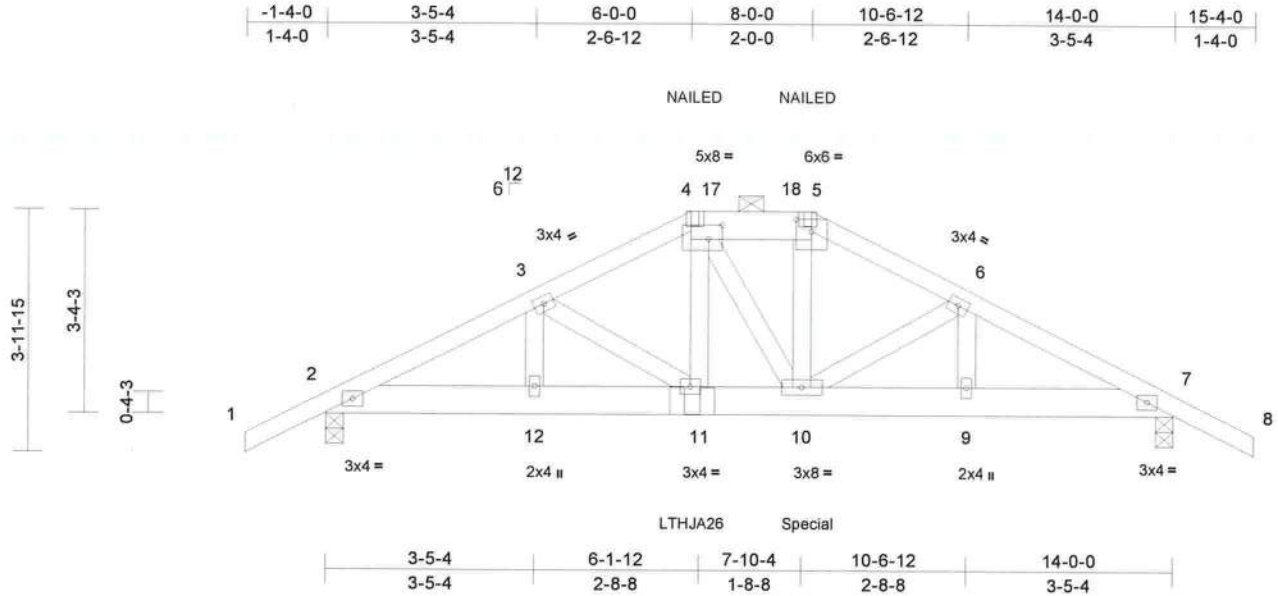
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Job	Truss	Truss Type	Qty	Ply	Stanley & Beverly Pope	T33807924
240124-03KM	H23	Hip Girder	1	1	Job Reference (optional)	

Coastal Truss & Vinyl Siding, Patterson, GA - 31577,

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Wed May 08 13:29:37  
ID: 1mRU7RriewYUtu?mLrWGwz71P-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrcDol7J4zJC?F

Page: 1



Scale = 1:38.1

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

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	Vert(LL)	0.05	10-11	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	Vert(CT)	-0.07	11	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	Horz(CT)	0.02	7	n/a	n/a		
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MS						Weight: 86 lb	FT = 20%

**LUMBER**  
TOP CHORD 2x4 SP No.2 \*Except\* 4-5:2x6 SP No.2  
BOT CHORD 2x6 SP No.2  
WEBS 2x4 SP No.2

**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 4-0-13 oc purlins, except 2-0-0 oc purlins (5-8-3 max.): 4-5.  
BOT CHORD Structural wood sheathing directly applied or 9-4-12 oc bracing.

**REACTIONS** (size) 2=0-3-8, 7=0-3-8  
Max Horiz 2=94 (LC 7)  
Max Uplift 2=-435 (LC 8), 7=-458 (LC 8)  
Max Grav 2=1070 (LC 13), 7=1107 (LC 14)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/32, 2-3=-1989/727, 3-4=-1831/723, 4-5=-1734/723, 5-6=-1920/774, 6-7=-2067/779, 7-8=0/32  
BOT CHORD 2-12=-569/1821, 11-12=-569/1821, 10-11=-523/1685, 9-10=-616/1819, 7-9=-616/1819  
WEBS 3-12=0/100, 3-11=-192/104, 4-11=-119/484, 4-10=-113/201, 5-10=-222/649, 6-10=-174/108, 6-9=0/87

- 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.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 435 lb uplift at joint 2 and 458 lb uplift at joint 7 .
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Use Simpson Strong-Tie LTHJA26 (LTHJA26 on 1 ply, Right Hand Hip) or equivalent at 6-0-6 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.
- "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 643 lb down and 281 lb up at 7-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 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: 1-4=-54, 4-5=-54, 5-8=-54, 2-7=-14  
Concentrated Loads (lb)  
Vert: 4=-82 (B), 5=-82 (B), 11=-332 (B), 10=-338 (B)

- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=18ft; B=50ft; L=30ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - Provide adequate drainage to prevent water ponding.



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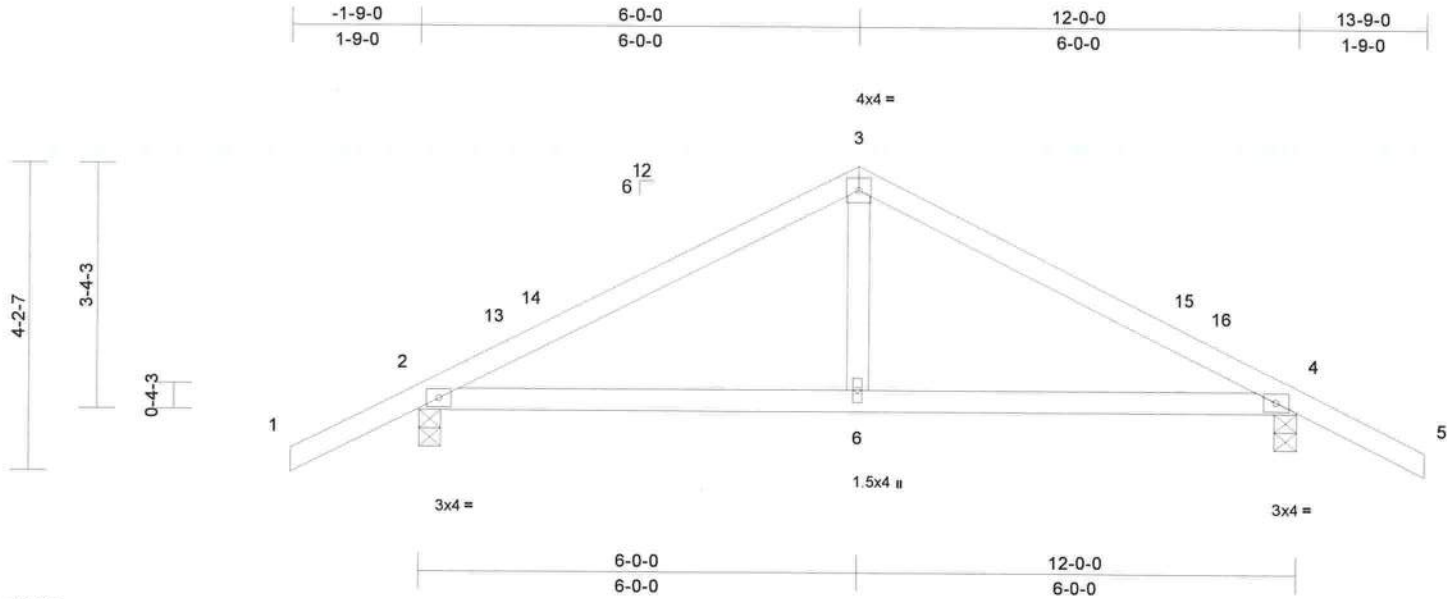
May 8, 2024

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Scale = 1:31.6

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	0.37	Vert(LL)	0.05	6-12	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.31	Vert(CT)	-0.06	6-9	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.01	4	n/a	n/a		
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MS								
											Weight: 48 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 6-0-0 oc purlins.  
BOT CHORD Structural wood sheathing directly applied or 10-0-0 oc bracing.

**REACTIONS**

(size) 2=0-3-8, 4=0-3-8  
Max Horiz 2=-99 (LC 10)  
Max Uplift 2=-204 (LC 12), 4=-204 (LC 12)  
Max Grav 2=502 (LC 1), 4=503 (LC 1)

**FORCES**

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/42, 2-3=-552/323, 3-4=-552/323, 4-5=0/42  
BOT CHORD 2-6=-115/436, 4-6=-115/436  
WEBS 3-6=0/233

**NOTES**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=18ft; B=50ft; L=30ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -1-9-0 to 1-3-0, Zone1 1-3-0 to 6-0-0, Zone2 6-0-0 to 10-2-15, Zone1 10-2-15 to 13-9-0 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
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.
  - All bearings are assumed to be SP No.2 .
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 204 lb uplift at joint 2 and 204 lb uplift at joint 4.
- LOAD CASE(S)** Standard



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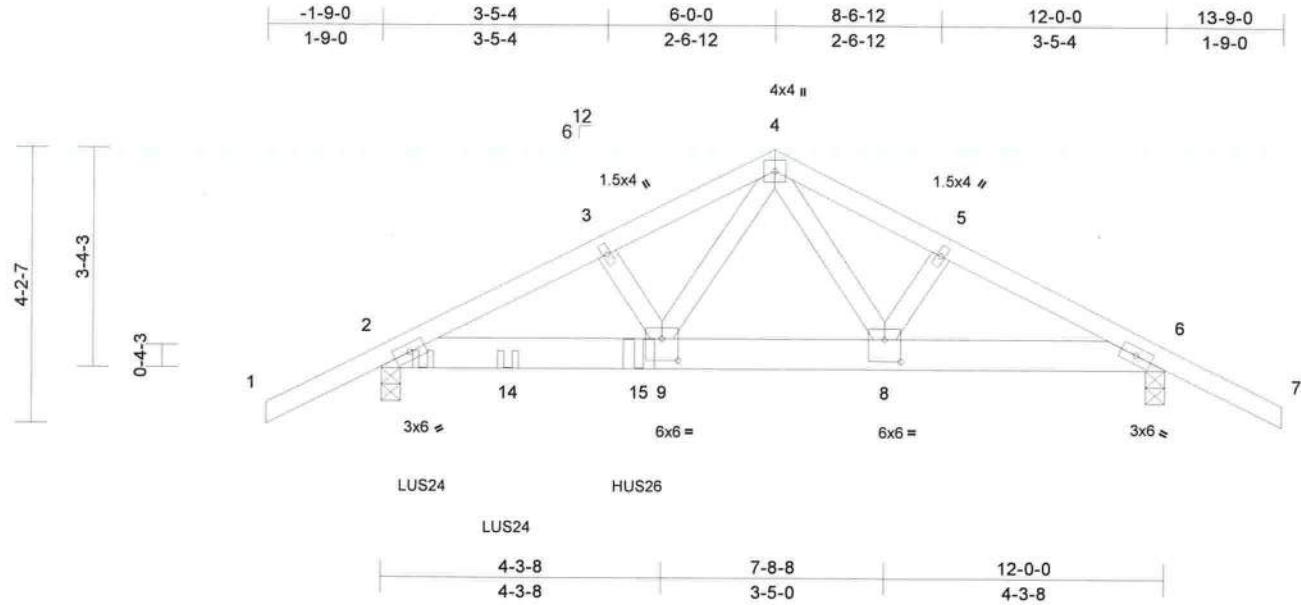
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Scale = 1:35.3

Plate Offsets (X, Y): [8:0-3-0,0-4-0], [9:0-3-0,0-4-0]

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	0.35	Vert(LL)	-0.05	9-11	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.70	Vert(CT)	-0.08	9-11	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.28	Horz(CT)	0.02	6	n/a	n/a		
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MS								
											Weight: 136 lb	FT = 20%

**LUMBER**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x6 SP No.2  
WEBS 2x4 SP No.2

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

**REACTIONS** (size) 2=0-3-8, 6=0-3-8  
Max Horiz 2=-99 (LC 6)  
Max Uplift 2=-859 (LC 8), 6=-415 (LC 8)  
Max Grav 2=2505 (LC 1), 6=1121 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/42, 2-3=-3584/1109, 3-4=-3335/1096, 4-5=-1919/620, 5-6=-1980/615, 6-7=0/42  
BOT CHORD 2-9=-898/3070, 8-9=-428/1688, 6-8=-456/1751  
WEBS 4-8=-146/118, 5-8=-134/90, 4-9=-821/2521, 3-9=-258/119

- 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 0-7-0 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 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf, BCDL=4.2psf, h=18ft; B=50ft; L=30ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.
- All bearings are assumed to be SP No.2
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 859 lb uplift at joint 2 and 415 lb uplift at joint 6.
- Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent at 0-7-12 from the left end to connect truss(es) to back face of bottom chord, skewed 0.0 deg. to the left, sloping 0.0 deg. down.
- Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent at 1-11-4 from the left end to connect truss(es) to back face of bottom chord.
- Use Simpson Strong-Tie HUS26 (14-10d Girder, 4-10d Truss) or equivalent at 3-11-4 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=-54, 4-7=-54, 2-6=-14  
Concentrated Loads (lb)  
Vert: 11=-574 (B), 14=-571 (B), 15=-1476 (B)



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Date:

May 8, 2024

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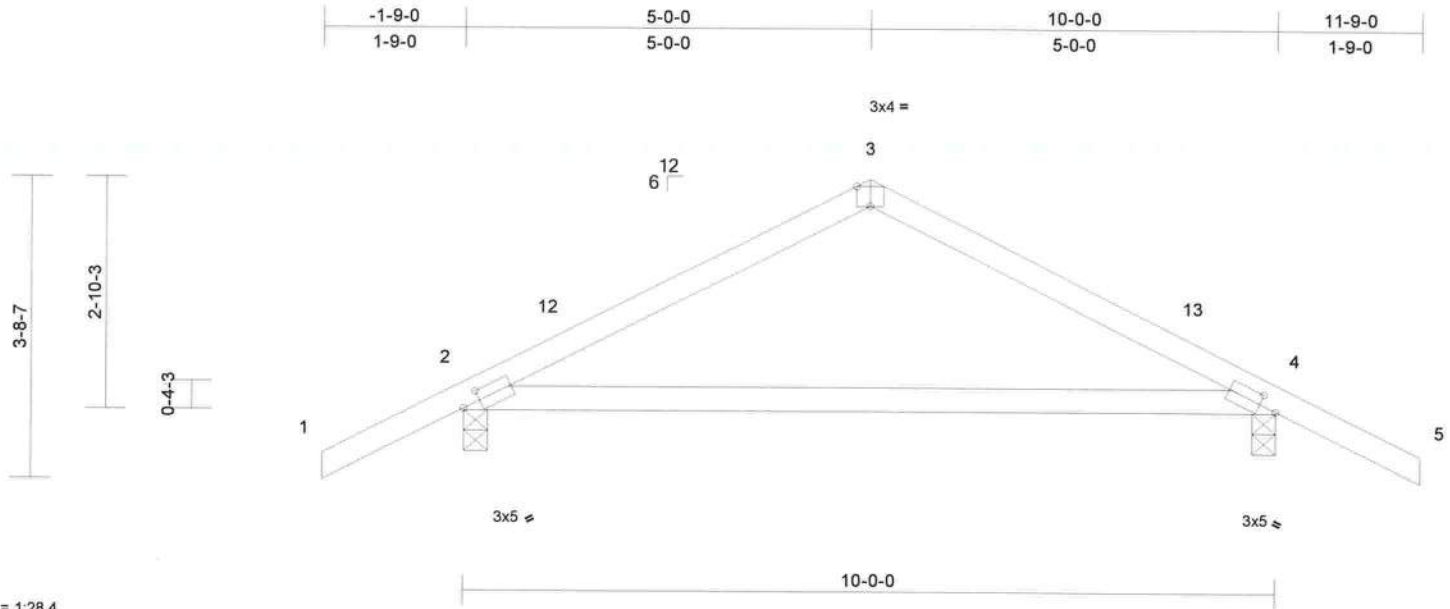


Job 240124-03KM	Truss T02	Truss Type Common	Qty 2	Ply 1	Stanley & Beverly Pope Job Reference (optional)	T33807927
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Coastal Truss & Vinyl Siding, Patterson, GA - 31577.

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Wed May 08 13:29:39  
ID:9?CzH3oBbh13OHh\_6?RKLyzs71T-RIC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC7f

Page: 1



Scale = 1:28.4

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

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	0.48	Vert(LL)	-0.18	8-11	>667	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.51	Vert(CT)	-0.32	8-11	>374	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 38 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 6-0-0 oc purlins.  
BOT CHORD Structural wood sheathing directly applied or 10-0-0 oc bracing.

**REACTIONS** (size) 2=0-3-8, 4=0-3-8  
Max Horiz 2=-86 (LC 10)  
Max Uplift 2=-184 (LC 12), 4=-184 (LC 12)  
Max Grav 2=435 (LC 1), 4=435 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/42, 2-3=-369/296, 3-4=-369/296, 4-5=0/42  
BOT CHORD 2-4=-83/304

**NOTES**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=18ft; B=50ft; L=30ft; eave=4ft, Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -1-9-0 to 1-3-0, Zone1 1-3-0 to 5-0-0, Zone2 5-0-0 to 9-5-8, Zone1 9-5-8 to 11-9-0 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
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.

- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 184 lb uplift at joint 2 and 184 lb uplift at joint 4.

**LOAD CASE(S)** Standard



Julius Lee PE No. 34869  
MiTek Inc. DBA MiTek USA FL Cert 6634  
16023 Swingley Ridge Rd. Chesterfield, MO 63017  
Date:

May 8, 2024

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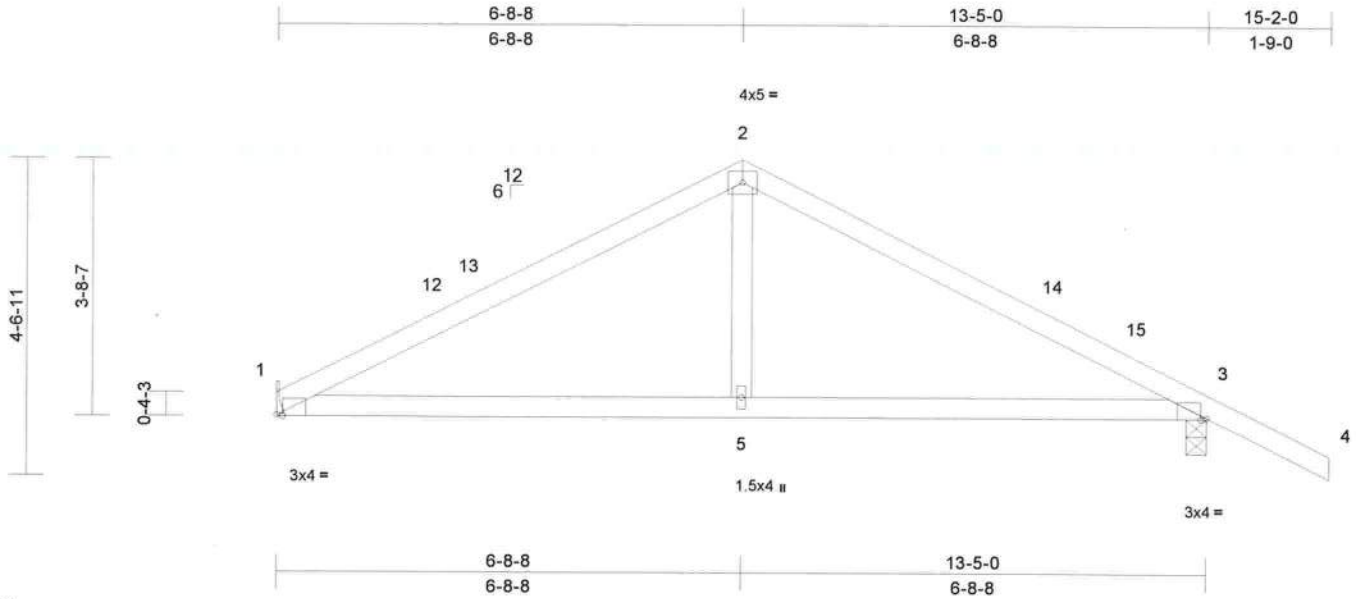
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Chesterfield, MO 63017  
314.434.1200 / MiTek-US.com

Job 240124-03KM	Truss T03	Truss Type Common	Qty 2	Ply 1	Stanley & Beverly Pope Job Reference (optional)	T33807928
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Coastal Truss & Vinyl Siding, Patterson, GA - 31577,

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Wed May 08 13:29:39  
ID:9?CzH3oBbh13OHh\_6?RKLyzs71T-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?I

Page: 1



Scale = 1:33.2

Plate Offsets (X, Y): [1:0-1-0,Edge], [3:0-1-0,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	Vert(LL)	0.08	5-8	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	Vert(CT)	-0.12	5-8	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	Horz(CT)	0.01	3	n/a	n/a		
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MS						Weight: 50 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 6-0-0 oc purlins.  
 BOT CHORD Structural wood sheathing directly applied or 10-0-0 oc bracing.

**REACTIONS** (size) 1= Mechanical, 3=0-3-8  
 Max Horiz 1=-103 (LC 10)  
 Max Uplift 1=-128 (LC 12), 3=-225 (LC 12)  
 Max Grav 1=450 (LC 1), 3=557 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=-644/395, 2-3=-647/380, 3-4=0/42  
 BOT CHORD 1-5=-191/514, 3-5=-191/514  
 WEBS 2-5=-26/265

**NOTES**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=18ft; B=50ft; L=30ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 6-8-8, Zone2 6-8-8 to 10-11-7, Zone1 10-11-7 to 15-2-0 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
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.
  - Bearings are assumed to be: , Joint 3 SP No.2 .
  - Refer to girder(s) for truss to truss connections.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 128 lb uplift at joint 1 and 225 lb uplift at joint 3.
- LOAD CASE(S)** Standard



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 Date:

May 8, 2024

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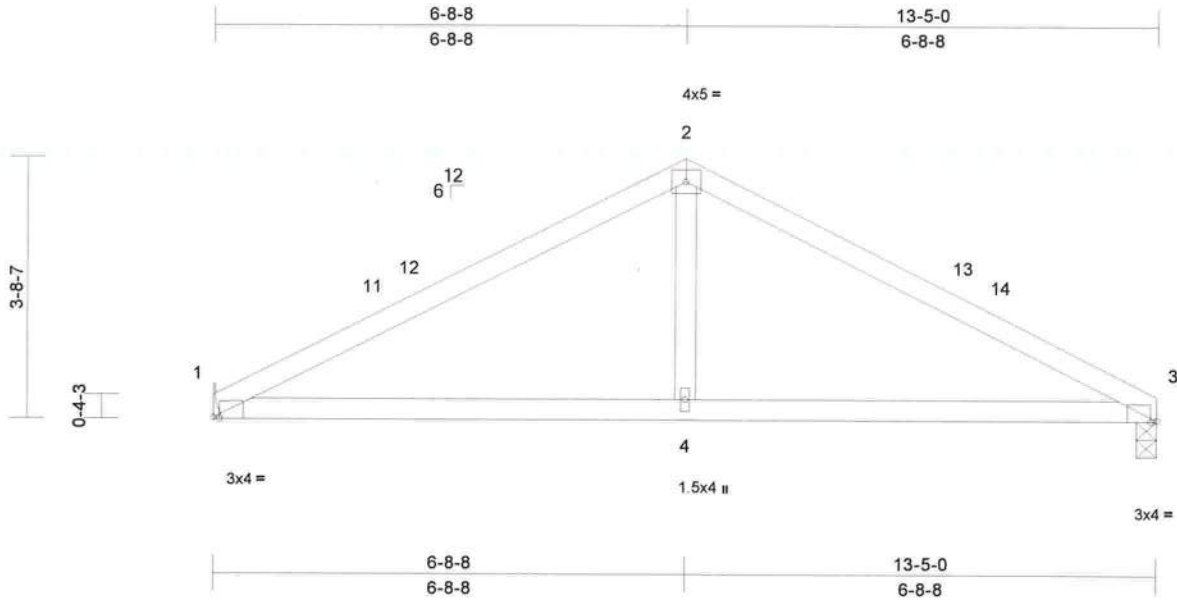


Job	Truss	Truss Type	Qty	Ply	Stanley & Beverly Pope	T33807929
240124-03KM	T04	Common	1	1	Job Reference (optional)	

Coastal Truss & Vinyl Siding, Patterson, GA - 31577,

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Wed May 08 13:29:39  
ID:9?CzH3oBbh13OHh\_6?RKLyzs71T-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:32.7

Plate Offsets (X, Y): [1:0-1-0,Edge], [3:0-1-0,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	0.49	Vert(LL)	-0.07	4-7	>999	240	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.45	Vert(CT)	-0.12	4-7	>999	180	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.01	3	n/a	n/a	
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MS							
										Weight: 47 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 6-0-0 oc purlins.  
 BOT CHORD Structural wood sheathing directly applied or 10-0-0 oc bracing.

**REACTIONS** (size) 1= Mechanical, 3=0-3-8  
 Max Horiz 1=-86 (LC 10)  
 Max Uplift 1=-134 (LC 12), 3=-134 (LC 12)  
 Max Grav 1=456 (LC 1), 3=456 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=-663/410, 2-3=-663/410  
 BOT CHORD 1-4=-242/531, 3-4=-242/531  
 WEBS 2-4=-34/268

**NOTES**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=4.2psf; h=18ft; B=50ft; L=30ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 6-8-8, Zone2 6-8-8 to 10-11-7, Zone1 10-11-7 to 13-5-0 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
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.
  - Bearings are assumed to be: , Joint 3 SP No.2 .
  - Refer to girder(s) for truss to truss connections.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 134 lb uplift at joint 1 and 134 lb uplift at joint 3.
- LOAD CASE(S)** Standard



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 Date:

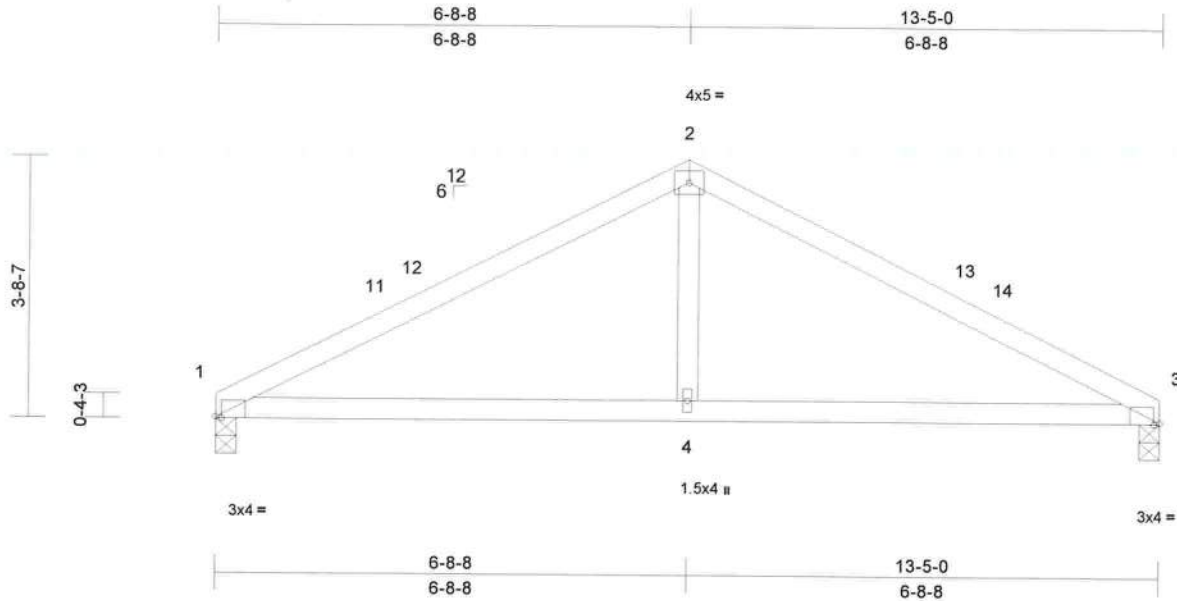
May 8, 2024

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Scale = 1:32.7

Plate Offsets (X, Y): [1:0-1-0,Edge], [3:0-1-0,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	Vert(LL)	-0.07	4-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	Vert(CT)	-0.12	4-7	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	Horz(CT)	0.01	3	n/a	n/a		
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MS						Weight: 47 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 6-0-0 oc purlins.  
 BOT CHORD Structural wood sheathing directly applied or 10-0-0 oc bracing.

**REACTIONS** (size) 1=0-3-8, 3=0-3-8  
 Max Horiz 1=-86 (LC 10)  
 Max Uplift 1=-134 (LC 12), 3=-134 (LC 12)  
 Max Grav 1=456 (LC 1), 3=456 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=-663/410, 2-3=-663/410  
 BOT CHORD 1-4=-242/531, 3-4=-242/531  
 WEBS 2-4=-34/268

**NOTES**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BC DL=4.2psf; h=18ft; B=50ft; L=30ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 6-8-8, Zone2 6-8-8 to 10-11-7, Zone1 10-11-7 to 13-5-0 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
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.
  - All bearings are assumed to be SP No.2.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 134 lb uplift at joint 1 and 134 lb uplift at joint 3.
- LOAD CASE(S)** Standard



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 Date:

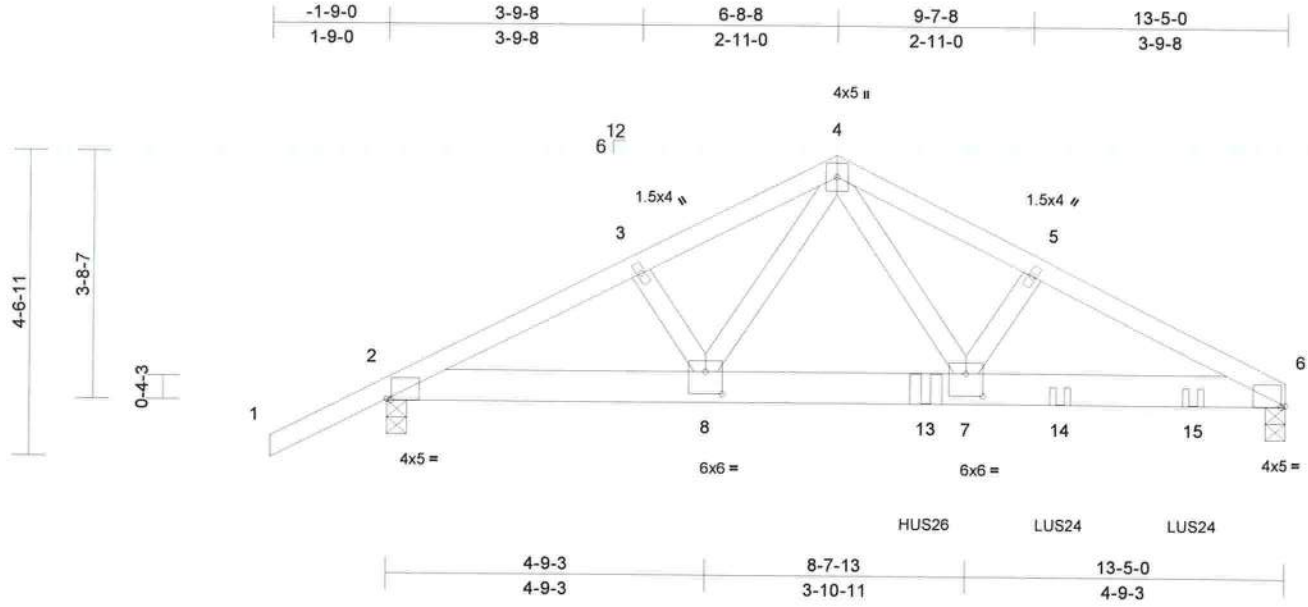
May 8, 2024

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Scale = 1:34.5  
 Plate Offsets (X, Y): [2:0-0-12,0-0-3], [6:0-0-12,0-0-3], [7:0-3-0,0-4-0], [8:0-3-0,0-4-0]

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	Vert(LL)	-0.05	7-10	>999	140	MT20	244/190	
TCDL	7.0	Lumber DOL	1.25	BC	Vert(CT)	-0.08	7-10	>999	180			
BCLL	0.0*	Rep Stress Incr	NO	WB	Horz(CT)	0.02	6	n/a	n/a			
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MS								
											Weight: 145 lb	FT = 20%

**LUMBER**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x6 SP No.2  
 WEBS 2x4 SP No.2

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

**REACTIONS** (size) 2=0-3-8, 6=0-3-8  
 Max Horiz 2=103 (LC 7)  
 Max Uplift 2=-499 (LC 8), 6=-735 (LC 8)  
 Max Grav 2=1358 (LC 1), 6=2314 (LC 14)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=0/42, 2-3=-2576/831, 3-4=-2492/836, 4-5=-3843/1301, 5-6=-4007/1297  
 BOT CHORD 2-8=-694/2271, 7-8=-601/2032, 6-7=-1122/3507  
 WEBS 4-7=-910/2716, 5-7=-221/1119, 4-8=-93/353, 3-8=-137/117

- 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 0-7-0 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 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=18ft; B=50ft; L=30ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 735 lb uplift at joint 6 and 499 lb uplift at joint 2.
- Use Simpson Strong-Tie HUS26 (14-10d Girder, 4-10d Truss) or equivalent at 8-0-12 from the left end to connect truss(es) to back face of bottom chord.
- Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 10-0-12 from the left end to 12-0-12 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=-54, 4-6=-54, 2-6=-14  
 Concentrated Loads (lb)  
 Vert: 13=-1505 (B), 14=-571 (B), 15=-571 (B)



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 Date:

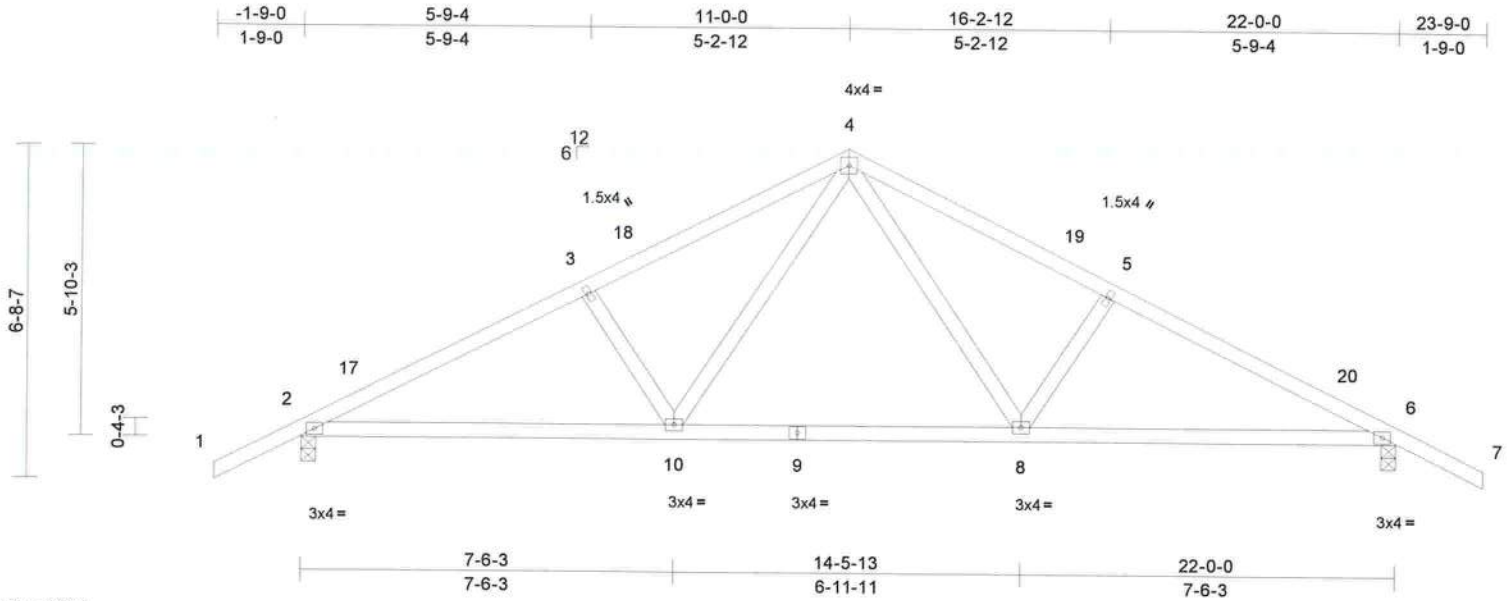
May 8, 2024

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Coastal Truss & Vinyl Siding, Patterson, GA - 31577,

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 ID:9?CzH3oBbh13OHh\_6?RKLyzs71T-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKwRCDoi7J4zJC?f



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	0.31	Vert(LL)	-0.07	10-13	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.46	Vert(CT)	-0.14	10-13	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.03	6	n/a	n/a		
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MS								
											Weight: 104 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 5-0-4 oc purlins.  
 BOT CHORD Structural wood sheathing directly applied or 9-8-3 oc bracing.

**REACTIONS** (size) 2=0-3-8, 6=0-3-8  
 Max Horiz 2=-163 (LC 10)  
 Max Uplift 2=-304 (LC 12), 6=-304 (LC 12)  
 Max Grav 2=843 (LC 1), 6=843 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=0/42, 2-3=-1293/520, 3-4=-1140/515,  
 4-5=-1140/515, 5-6=-1293/520, 6-7=0/42  
 BOT CHORD 2-10=-340/1110, 8-10=-144/736,  
 6-8=-370/1110  
 WEBS 4-8=-177/433, 5-8=-305/245, 4-10=-177/433,  
 3-10=-304/245

- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-22; Vult=130mph (3-second gust)  
 Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=18ft;  
 B=50ft; L=30ft; eave=4ft; Cat. II; Exp C; Enclosed;  
 MWFRS (directional) and C-C Zone3 -1-9-0 to 1-3-0,  
 Zone1 1-3-0 to 11-0-0, Zone2 11-0-0 to 15-2-15, Zone1  
 15-2-15 to 23-9-0 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
  - Building Designer / Project engineer responsible for  
 verifying applied roof live load shown covers rain loading  
 requirements specific to the use of this truss component.
  - 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.
  - All bearings are assumed to be SP No.2 .
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 304 lb uplift at joint 2 and 304 lb uplift at joint 6.
- LOAD CASE(S)** Standard



Julius Lee PE No. 34869  
 MiTek Inc. DBA MiTek USA FL Cert 6634  
 16023 Swingley Ridge Rd. Chesterfield, MO 63017  
 Date:

May 8, 2024

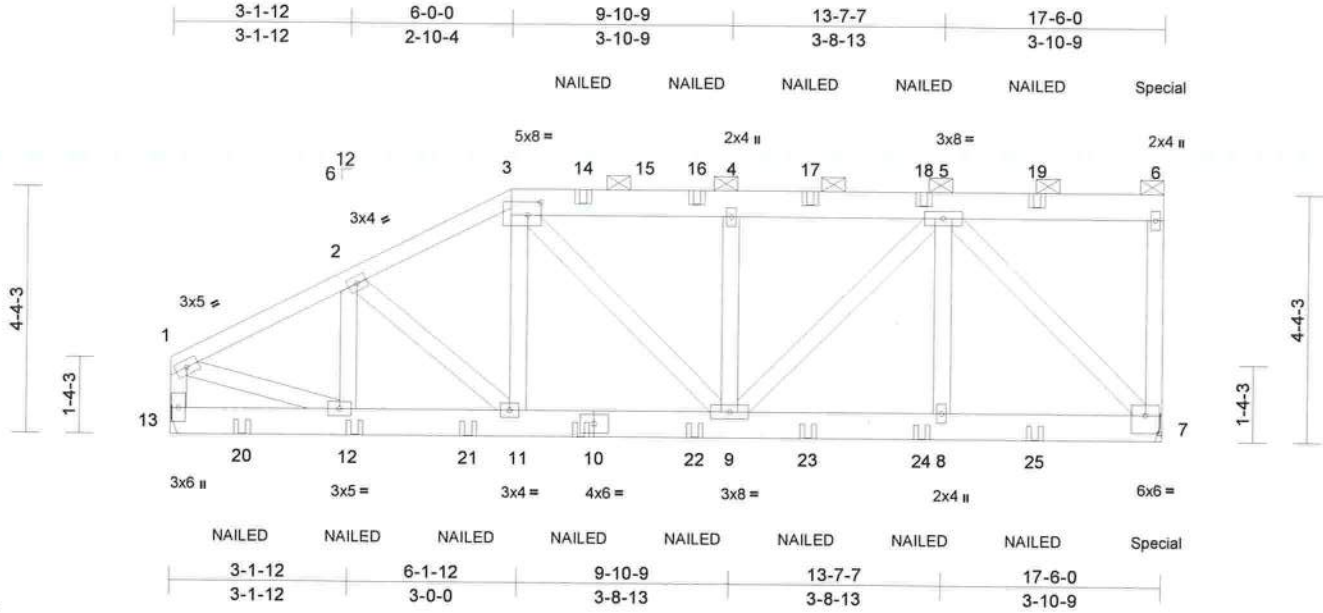
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Scale = 1:40.7  
 Plate Offsets (X, Y): [3:0-2-12,0-2-12], [7:0-3-0,0-3-12]

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)	0.04	9-11	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.35	Vert(CT)	-0.06	9-11	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.74	Horz(CT)	0.02	7	n/a	n/a		
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MS								
											Weight: 134 lb	FT = 20%

- LUMBER**  
 TOP CHORD 2x4 SP No.2 \*Except\* 3-6:2x6 SP No.2  
 BOT CHORD 2x6 SP No.2  
 WEBS 2x4 SP No.2
- BRACING**  
 TOP CHORD Structural wood sheathing directly applied or 4-5-7 oc purlins, except end verticals, and 2-0-0 oc purlins (5-8-9 max.); 3-6.  
 BOT CHORD Structural wood sheathing directly applied or 9-5-1 oc bracing.
- REACTIONS** (size) 7= Mechanical, 13= Mechanical  
 Max Horiz 13=178 (LC 7)  
 Max Uplift 7=-609 (LC 5), 13=-523 (LC 8)  
 Max Grav 7=1574 (LC 13), 13=1519 (LC 1)
- FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=-1723/617, 2-3=-1676/647, 3-4=-1622/664, 4-5=-1619/662, 5-6=-72/63, 6-7=-160/115, 1-13=-1317/474  
 BOT CHORD 12-13=-196/179, 11-12=-615/1545, 9-11=-605/1519, 8-9=-472/1138, 7-8=-472/1138  
 WEBS 2-12=-98/74, 2-11=-55/84, 3-11=-118/438, 3-9=-123/249, 4-9=-290/197, 5-9=-276/731, 5-8=-68/406, 5-7=-1605/620, 1-12=-490/1472

- 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) Refer to girder(s) for truss to truss connections.  
 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 609 lb uplift at joint 7 and 523 lb uplift at joint 13.  
 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.  
 10) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.  
 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 64 lb down and 61 lb up at 17-4-4 on top chord, and 177 lb down and 44 lb up at 17-4-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.  
 12) 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: 1-3=-54, 3-6=-54, 7-13=-14  
 Concentrated Loads (lb)  
 Vert: 6=-57 (B), 7=-171 (B), 10=-163 (B), 12=-243 (B), 14=-28 (B), 16=-28 (B), 17=-28 (B), 18=-28 (B), 19=-28 (B), 20=-243 (B), 21=-243 (B), 22=-163 (B), 23=-163 (B), 24=-163 (B), 25=-163 (B)



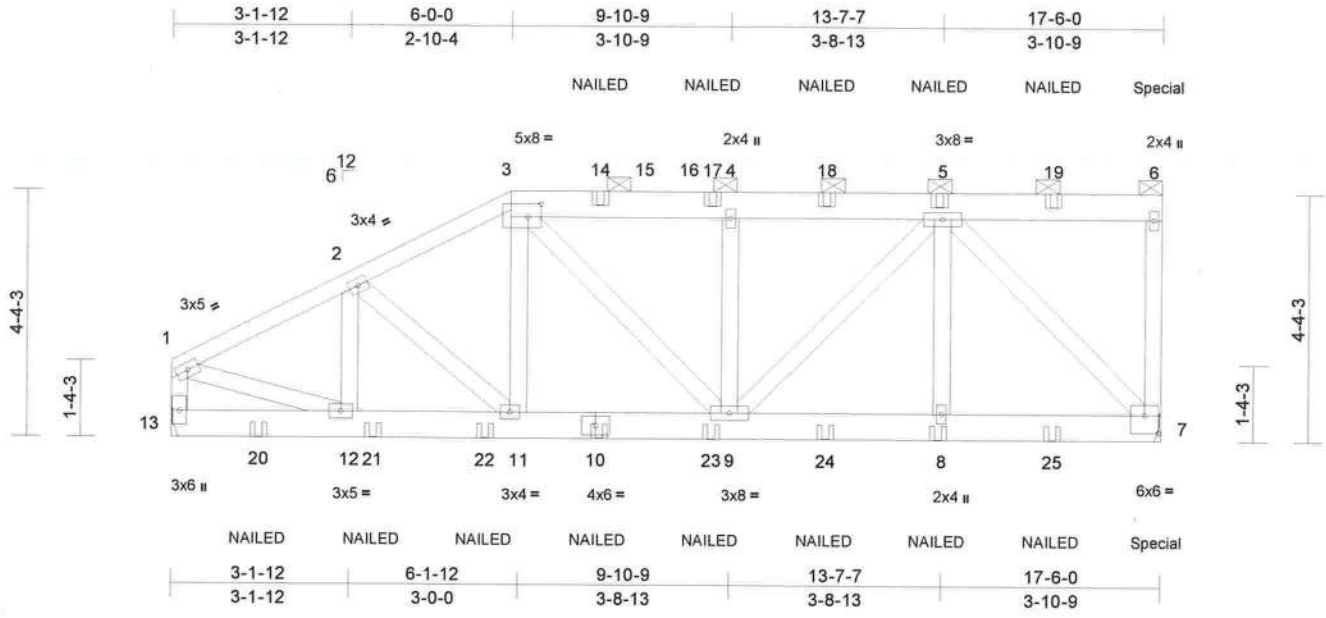
Julius Lee PE No. 34869  
 MiTek Inc. DBA MiTek USA FL Cert 6634  
 16023 Swingley Ridge Rd. Chesterfield, MO 63017  
 Date:

May 8, 2024

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Scale = 1:40.7

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

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	Vert(LL)	0.04	9-11	>999	240	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.35	Vert(CT)	-0.06	9-11	>999	180	
BCLL	0.0*	Rep Stress Incr	NO	WB	0.75	Horz(CT)	0.02	7	n/a	n/a	
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MS							

Weight: 134 lb FT = 20%

- LUMBER**  
 TOP CHORD 2x4 SP No.2 \*Except\* 3-6:2x6 SP No.2  
 BOT CHORD 2x6 SP No.2  
 WEBS 2x4 SP No.2
- BRACING**  
 TOP CHORD Structural wood sheathing directly applied or 4-5-4 oc purlins, except end verticals, and 2-0-0 oc purlins (5-8-8 max.): 3-6.  
 BOT CHORD Structural wood sheathing directly applied or 9-5-11 oc bracing.
- REACTIONS** (size) 7= Mechanical, 13= Mechanical  
 Max Horiz 13=178 (LC 7)  
 Max Uplift 7=-619 (LC 5), 13=-508 (LC 8)  
 Max Grav 7=1602 (LC 13), 13=1490 (LC 1)
- FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=-1733/614, 2-3=-1694/648,  
 3-4=-1624/662, 4-5=-1621/660, 5-6=-73/63,  
 6-7=-165/119, 1-13=-1326/472  
 BOT CHORD 12-13=-195/173, 11-12=-611/1537,  
 9-11=-606/1530, 8-9=-473/1144,  
 7-8=-473/1144  
 WEBS 2-12=-123/80, 2-11=-42/106, 3-11=-127/463,  
 3-9=-118/226, 4-9=-290/195, 5-9=-270/719,  
 5-8=-71/416, 5-7=-1612/621, 1-12=-488/1486

- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=18ft; B=50ft; L=30ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - 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 619 lb uplift at joint 7 and 508 lb uplift at joint 13.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
  - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 64 lb down and 61 lb up at 17-4-4 on top chord, and 177 lb down and 44 lb up at 17-4-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
  - 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, 3-6=-54, 7-13=-14  
 Concentrated Loads (lb)  
 Vert: 6=-57 (F), 7=-171 (F), 10=-163 (F), 8=-163 (F), 5=-28 (F), 14=-28 (F), 17=-28 (F), 18=-28 (F), 19=-28 (F), 20=-243 (F), 21=-243 (F), 22=-243 (F), 23=-163 (F), 24=-163 (F), 25=-163 (F)



Julius Lee PE No. 34869  
 MiTek Inc. DBA MiTek USA FL Cert 6634  
 16023 Swingley Ridge Rd. Chesterfield, MO 63017  
 Date:

May 8, 2024

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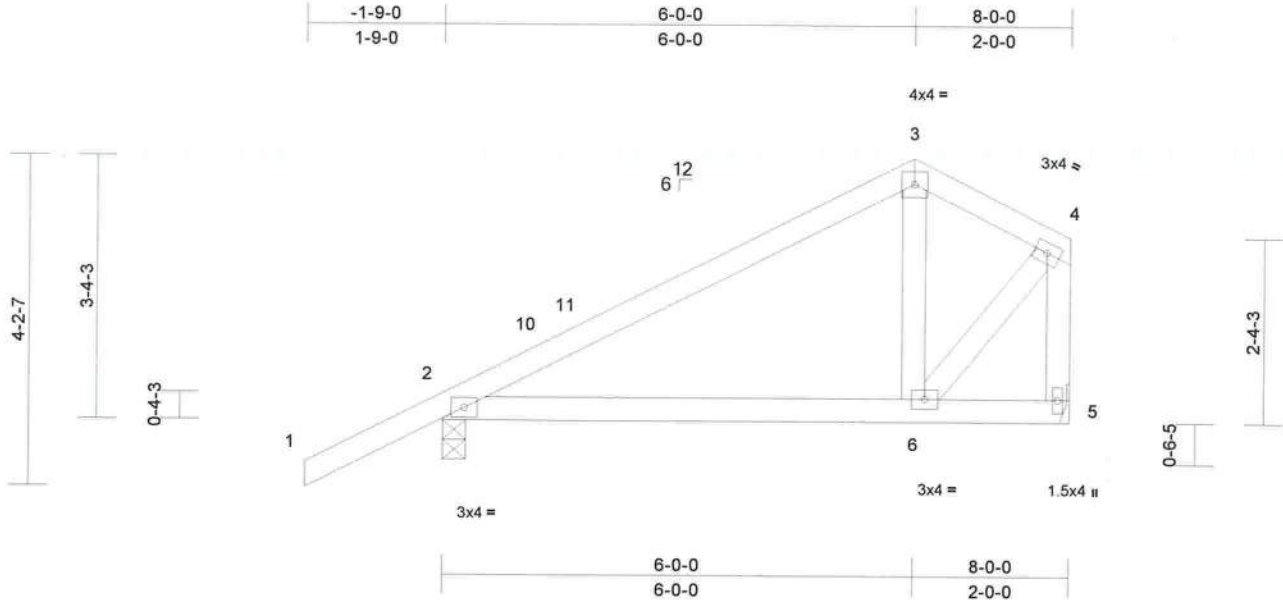
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Coastal Truss & Vinyl Siding, Patterson, GA - 31577,

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Wed May 08 13:29:39  
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Scale = 1:29.4

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	Vert(LL)	0.07	6-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	Vert(CT)	-0.07	6-9	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	Horz(CT)	0.00	2	n/a	n/a		
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MP						Weight: 39 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 6-0-0 oc purlins, except end verticals.  
 BOT CHORD Structural wood sheathing directly applied or 10-0-0 oc bracing.
- REACTIONS** (size) 2=0-3-8, 5= Mechanical  
 Max Horiz 2=139 (LC 11)  
 Max Uplift 2=-173 (LC 12), 5=-69 (LC 12)  
 Max Grav 2=372 (LC 1), 5=257 (LC 1)
- FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=0/42, 2-3=-237/153, 3-4=-193/200, 4-5=-289/361  
 BOT CHORD 2-6=-196/206, 5-6=-49/53  
 WEBS 3-6=-35/123, 4-6=-246/238

- 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) Bearings are assumed to be: Joint 2 SP No.2 .  
 7) Refer to girder(s) for truss to truss connections.  
 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 173 lb uplift at joint 2 and 69 lb uplift at joint 5.
- LOAD CASE(S)** Standard

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-22; Vult=130mph (3-second gust)  
 Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=18ft; B=50ft; L=30ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -1-9-0 to 1-3-0, Zone1 1-3-0 to 6-0-0, Zone3 6-0-0 to 7-10-4 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) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.



Julius Lee PE No. 34869  
 MiTek Inc. DBA MiTek USA FL Cert 6634  
 16023 Swingley Ridge Rd. Chesterfield, MO 63017  
 Date:

May 8, 2024

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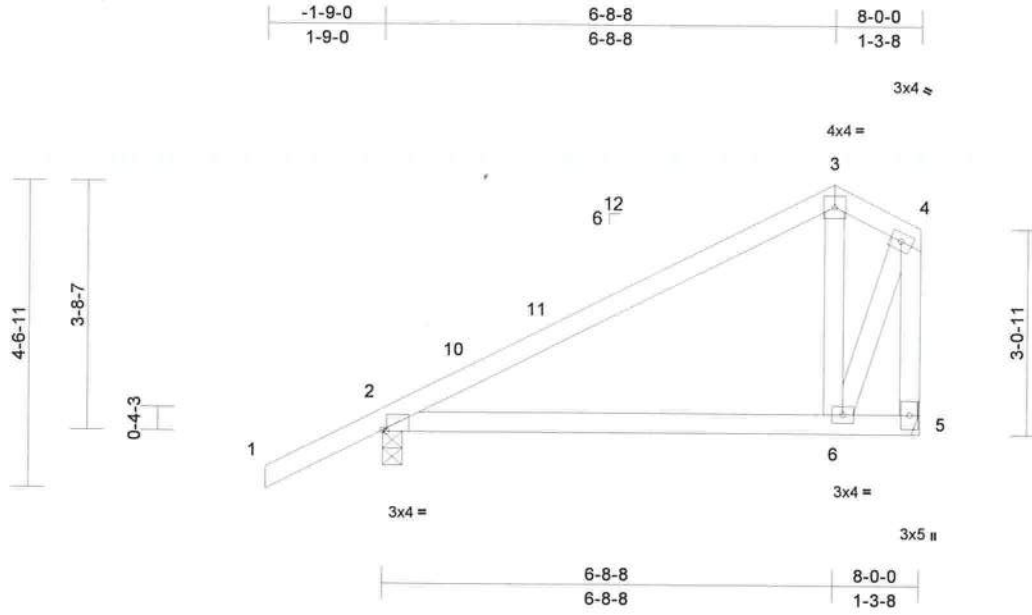
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Scale = 1:34.4

Plate Offsets (X, Y): [2:0-0-12,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	0.67	Vert(LL)	0.10	6-9	>940	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.55	Vert(CT)	-0.10	6-9	>929		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	2	n/a		
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MP							
										Weight: 41 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 6-0-0 oc purlins, except end verticals.  
 BOT CHORD Structural wood sheathing directly applied or 10-0-0 oc bracing.

**REACTIONS** (size) 2=0-3-8, 5= Mechanical  
 Max Horiz 2=162 (LC 11)  
 Max Uplift 2=-171 (LC 12), 5=-70 (LC 12)  
 Max Grav 2=372 (LC 1), 5=257 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=0/42, 2-3=-252/109, 3-4=-177/154, 4-5=-372/416  
 BOT CHORD 2-6=-170/203, 5-6=-65/70  
 WEBS 3-6=-82/192, 4-6=-331/330

- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=18ft; B=50ft; L=30ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -1-9-0 to 1-3-0, Zone1 1-3-0 to 6-8-8, Zone3 6-8-8 to 7-10-4 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
  - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - 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.
  - Bearings are assumed to be: Joint 2 SP No.2 .
  - Refer to girder(s) for truss to truss connections.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 171 lb uplift at joint 2 and 70 lb uplift at joint 5.
- LOAD CASE(S)** Standard



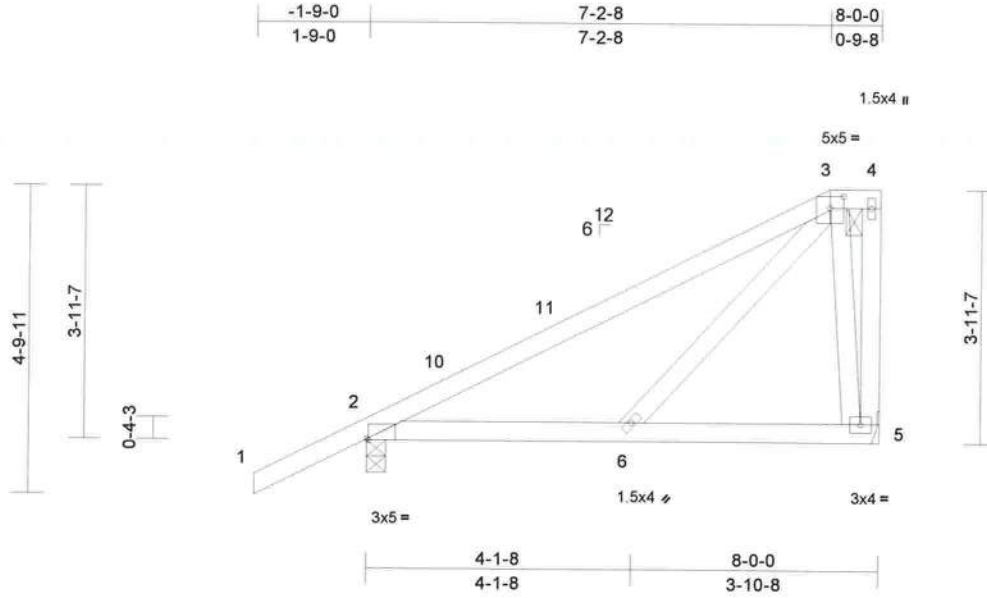
Julius Lee PE No. 34869  
 MiTek Inc. DBA MiTek USA FL Cert 6634  
 16023 Swingley Ridge Rd. Chesterfield, MO 63017  
 Date:

May 8, 2024

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Scale = 1:36.1

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

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	Vert(LL)	0.05	6-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	Vert(CT)	-0.05	6-9	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	Horz(CT)	0.00	5	n/a	n/a		
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MP						Weight: 45 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 6'-0-0 oc purlins, except end verticals, and 2'-0-0 oc purlins: 3-4.
  - BOT CHORD Structural wood sheathing directly applied or 10'-0-0 oc bracing.

- REACTIONS**
- (size) 2=0-3-8, 5= Mechanical
  - Max Horiz 2=187 (LC 11)
  - Max Uplift 2=-169 (LC 12), 5=-84 (LC 9)
  - Max Grav 2=372 (LC 1), 5=264 (LC 17)

- FORCES** (lb) - Maximum Compression/Maximum Tension
- TOP CHORD 1-2=0/42, 2-3=-294/100, 3-4=-84/91, 4-5=-17/21
  - BOT CHORD 2-6=-197/267, 5-6=-111/112
  - WEBS 3-6=-130/240, 3-5=-268/303

- NOTES**
- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust)  
Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=18ft;  
B=50ft; L=30ft; eave=4ft; Cat. II; Exp C; Enclosed;  
MWFRS (directional) and C-C Zone3 -1-9-0 to 1-3-0,  
Zone1 1-3-0 to 7-2-8, Zone3 7-2-8 to 7-10-4 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) Building Designer / Project engineer responsible for  
verifying applied roof live load shown covers rain loading  
requirements specific to the use of this truss component.
  - 3) Provide adequate drainage to prevent water ponding.
  - 4) This truss has been designed for a 10.0 psf bottom  
chord live load nonconcurrent with any other live loads.

- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-06-00 tall by 2'-00-00 wide will fit between the bottom chord and any other members.
- 6) Bearings are assumed to be: Joint 2 SP No.2 .
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 84 lb uplift at joint 5 and 169 lb uplift at joint 2.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



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16023 Swingley Ridge Rd. Chesterfield, MO 63017  
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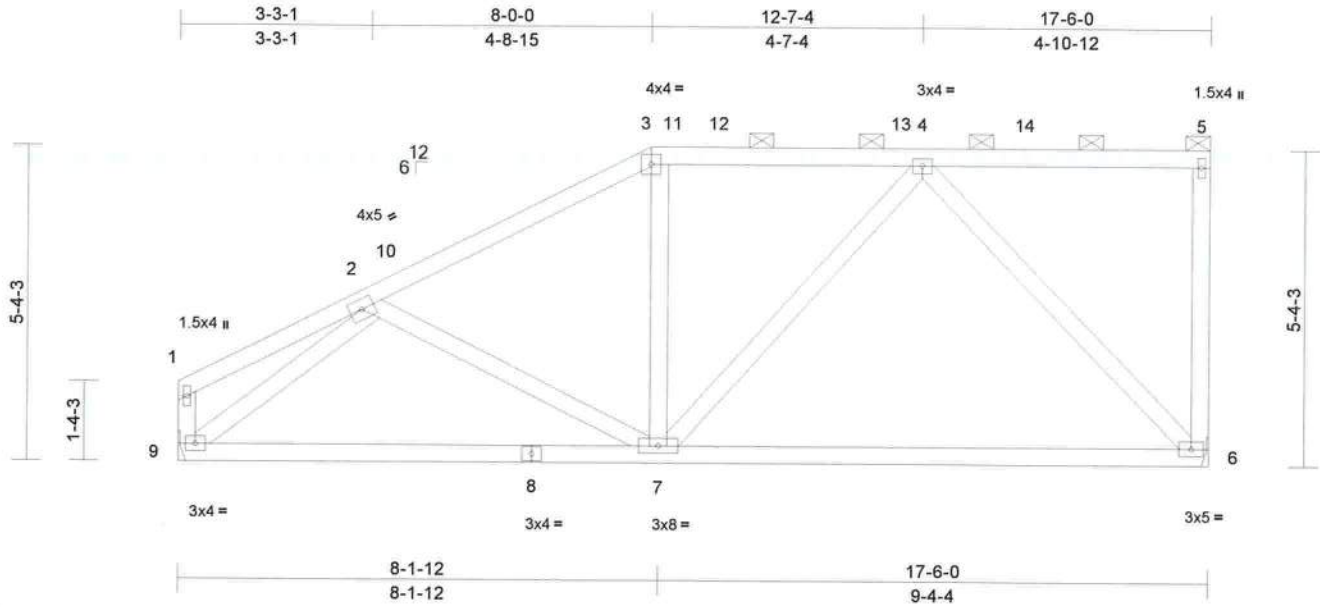


Job	Truss	Truss Type	Qty	Ply	Stanley & Beverly Pope	
240124-03KM	H18	Half Hip	2	1	Job Reference (optional)	T33807939

Coastal Truss & Vinyl Siding, Patterson, GA - 31577,

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Wed May 08 13:29:36  
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Page: 1



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	Vert(LL)	-0.18	6-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	Vert(CT)	-0.30	6-7	>682	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	Horz(CT)	0.01	6	n/a	n/a		
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MS							

Weight: 102 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 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-5.  
BOT CHORD Structural wood sheathing directly applied or 8-2-2 oc bracing.

**REACTIONS** (size) 6= Mechanical, 9= Mechanical  
Max Horiz 9=231 (LC 9)  
Max Uplift 6=-206 (LC 9), 9=-168 (LC 12)  
Max Grav 6=585 (LC 1), 9=585 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=-89/44, 2-3=-649/278, 3-4=-525/283, 4-5=-130/127, 5-6=-109/68, 1-9=-86/42  
BOT CHORD 7-9=-504/607, 6-7=-300/408  
WEBS 2-7=-91/167, 3-7=0/141, 4-7=-81/235, 4-6=-575/323, 2-9=-702/328

- \* 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 206 lb uplift at joint 6 and 168 lb uplift at joint 9.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- LOAD CASE(S)** Standard

- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=18ft; B=50ft; L=30ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 2-1-12 to 5-2-2, Zone1 5-2-2 to 10-0-0, Zone2 10-0-0 to 14-2-15, Zone1 14-2-15 to 19-4-4 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
  - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - 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.

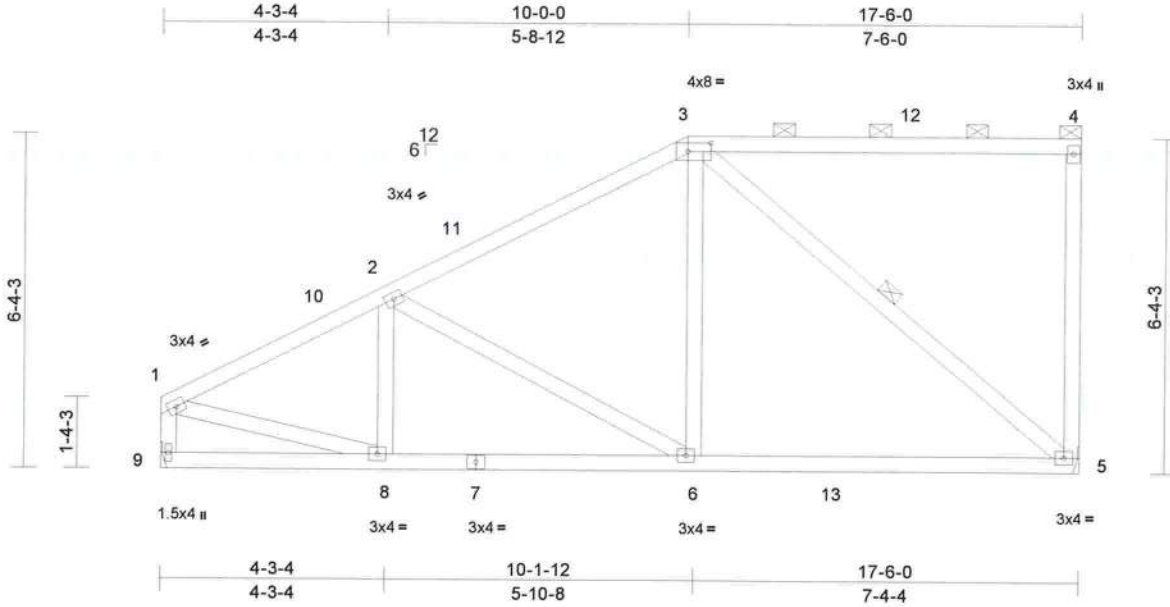


Julius Lee PE No. 34869  
MiTek Inc. DBA MiTek USA FL Cert 6634  
16023 Swingley Ridge Rd. Chesterfield, MO 63017  
Date:

May 8, 2024

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Scale = 1:43.9

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

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	0.67	Vert(LL)	-0.10	5-6	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.45	Vert(CT)	-0.16	5-6	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.01	5	n/a	n/a		
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MS								

Weight: 105 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 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4.  
 BOT CHORD Structural wood sheathing directly applied or 8-1-12 oc bracing.  
 WEBS 1 Row at midpt 3-5

**REACTIONS**  
 (size) 5= Mechanical, 9= Mechanical  
 Max Horiz 9=277 (LC 9)  
 Max Uplift 5=-209 (LC 9), 9=-166 (LC 12)  
 Max Grav 5=704 (LC 17), 9=692 (LC 17)

**FORCES**  
 (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=-857/285, 2-3=-639/274, 3-4=-151/158, 4-5=-193/123, 1-9=-636/240  
 BOT CHORD 8-9=-426/354, 6-8=-516/821, 5-6=-348/586  
 WEBS 2-8=-93/103, 2-6=-278/192, 3-6=-18/384, 3-5=-701/316, 1-8=-209/691

- NOTES**
- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust)  
 Vasd=101mph; TC DL=4.2psf; BCDL=4.2psf; h=18ft; B=50ft; L=30ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 2-1-12 to 5-1-12, Zone1 5-1-12 to 12-0-0, Zone2 12-0-0 to 16-2-15, Zone1 16-2-15 to 19-4-4 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) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - 3) Provide adequate drainage to prevent water ponding.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 7.0psf.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 209 lb uplift at joint 5 and 166 lb uplift at joint 9.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard



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May 8, 2024

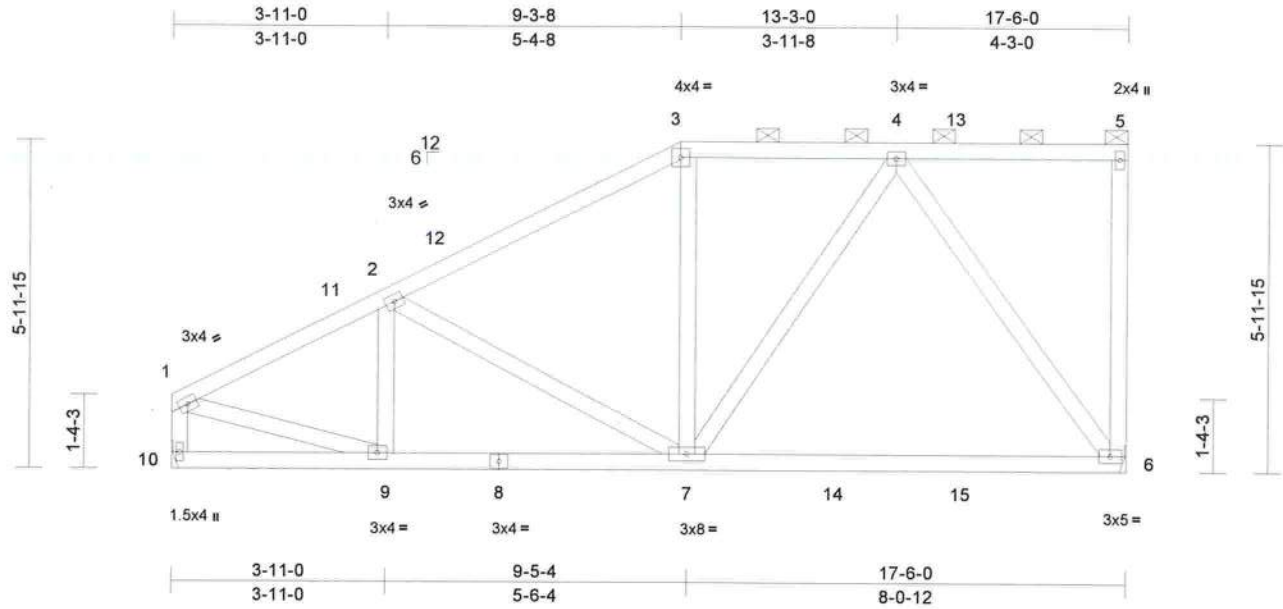
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Scale = 1:42.2

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	0.33	Vert(LL)	-0.17	6-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.56	Vert(CT)	-0.25	6-7	>829	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.53	Horz(CT)	0.01	6	n/a	n/a		
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MS								
											Weight: 109 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 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-5.  
BOT CHORD Structural wood sheathing directly applied or 8-2-0 oc bracing.

**REACTIONS** (size) 6= Mechanical, 10= Mechanical  
Max Horiz 10=261 (LC 9)  
Max Uplift 6=-208 (LC 9), 10=-166 (LC 12)  
Max Grav 6=699 (LC 17), 10=686 (LC 17)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=-835/283, 2-3=-671/275, 3-4=-561/283, 4-5=-140/143, 5-6=-95/68, 1-10=-629/239  
BOT CHORD 9-10=-398/331, 7-9=-512/800, 6-7=-275/397  
WEBS 2-9=-122/104, 2-7=-228/187, 3-7=-5/121, 4-7=-127/368, 4-6=-618/320, 1-9=-220/688

- 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 = 7.0psf.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 208 lb uplift at joint 6 and 166 lb uplift at joint 10.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- LOAD CASE(S)** Standard

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=18ft; B=50ft; L=30ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 2-1-12 to 5-1-12, Zone1 5-1-12 to 11-3-8, Zone2 11-3-8 to 15-3-0, Zone1 15-3-0 to 19-4-4 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
  - 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - 4) Provide adequate drainage to prevent water ponding.
  - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.



Julius Lee PE No. 34869  
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16023 Swingley Ridge Rd. Chesterfield, MO 63017  
Date:

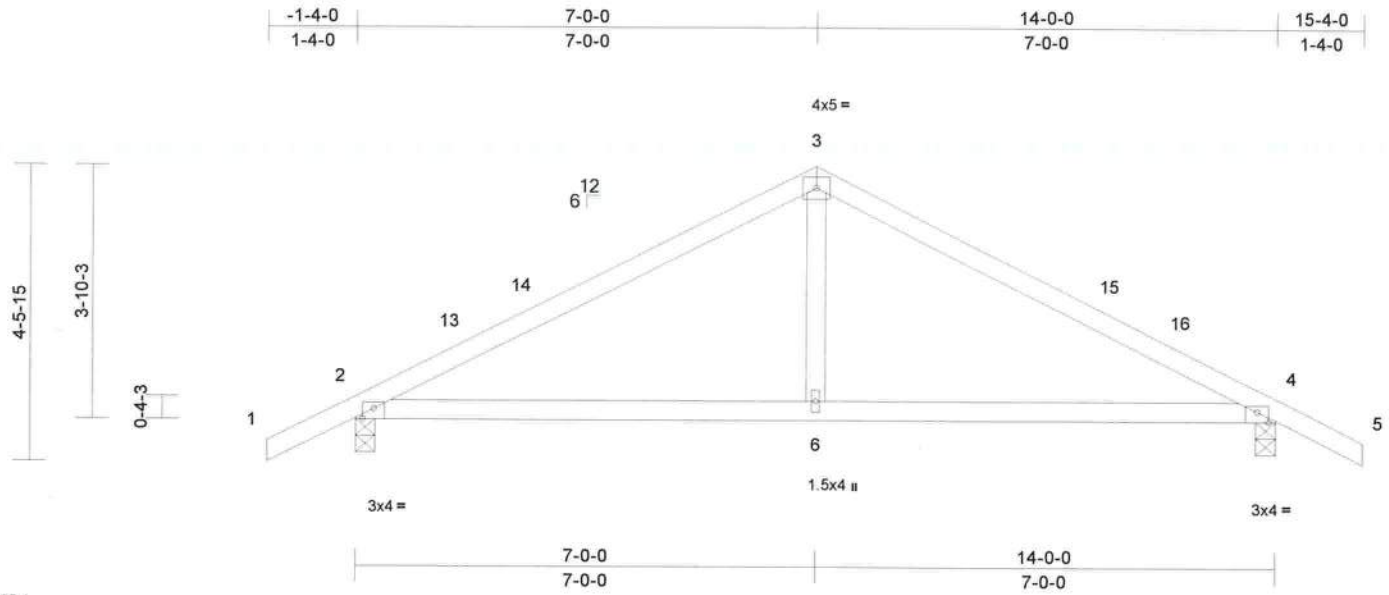
May 8, 2024

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Scale = 1:35.1

Plate Offsets (X, Y): [2:0-2-0,Edge], [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	0.52	Vert(LL)	-0.08	6-12	>999	240	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.43	Vert(CT)	-0.13	6-12	>999	180	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.01	4	n/a	n/a	
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MS							
										Weight: 54 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 6-0-0 oc purlins.  
BOT CHORD Structural wood sheathing directly applied or 10-0-0 oc bracing.

**REACTIONS**

(size) 2=0-3-8, 4=0-3-8  
Max Horiz 2=107 (LC 11)  
Max Uplift 2=-204 (LC 12), 4=-204 (LC 12)  
Max Grav 2=548 (LC 1), 4=548 (LC 1)

**FORCES**

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/32, 2-3=-673/367, 3-4=-673/367, 4-5=0/32  
BOT CHORD 2-6=-168/535, 4-6=-168/535  
WEBS 3-6=-7/277

**NOTES**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=18ft; B=50ft; L=30ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 7-0-0, Zone2 7-0-0 to 11-2-15, Zone1 11-2-15 to 15-4-0 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
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
  - 6) All bearings are assumed to be SP No.2 .
  - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 204 lb uplift at joint 2 and 204 lb uplift at joint 4.
- LOAD CASE(S)** Standard



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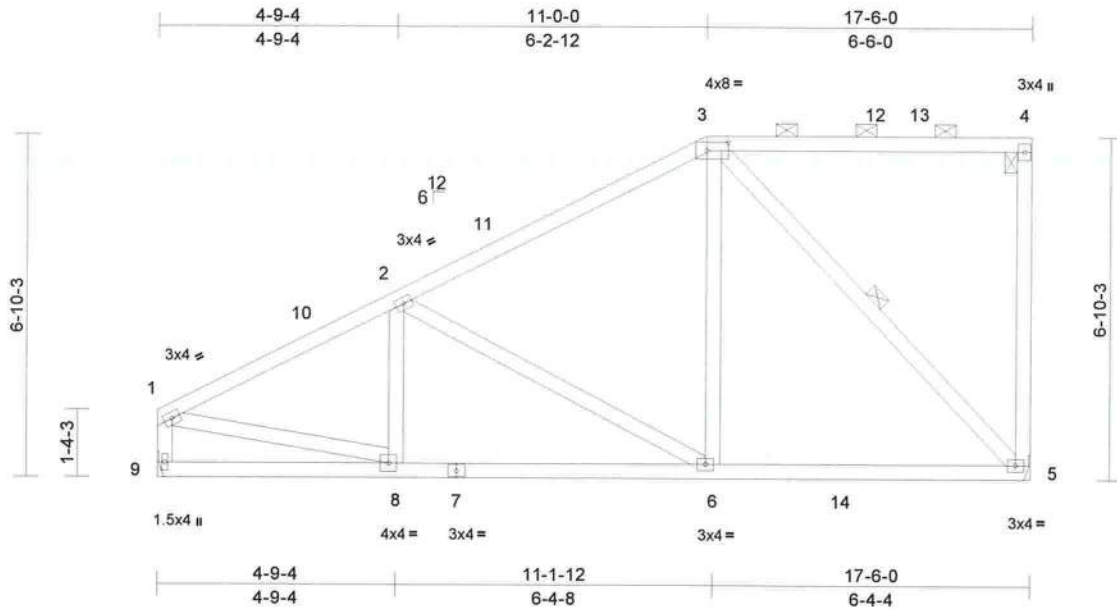


Job 240124-03KM	Truss H20	Truss Type Half Hip	Qty 1	Ply 1	Stanley & Beverly Pope Job Reference (optional)	T33807943
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Coastal Truss & Vinyl Siding, Patterson, GA - 31577.

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Page: 1



Scale = 1:46.2

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

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	0.52	Vert(LL)	-0.06	5-6	>999	240	244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.39	Vert(CT)	-0.09	5-6	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.01	5	n/a	n/a		
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MS								
											Weight: 108 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 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4.

BOT CHORD Structural wood sheathing directly applied or 8-1-6 oc bracing.

WEBS 1 Row at midpt 3-5

**REACTIONS** (size) 5= Mechanical, 9= Mechanical  
Max Horiz 9=300 (LC 9)  
Max Uplift 5=210 (LC 9), 9=164 (LC 12)  
Max Grav 5=714 (LC 17), 9=690 (LC 17)

**FORCES**

(lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=-872/290, 2-3=-573/264, 3-4=-155/165, 4-5=-170/111, 1-9=-631/240  
BOT CHORD 8-9=-459/382, 6-8=-524/839, 5-6=-329/519  
WEBS 2-8=-65/103, 2-6=-374/222, 3-6=-37/412, 3-5=-691/318, 1-8=-203/689

**NOTES**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=18ft; B=50ft; L=30ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 2-1-12 to 5-1-12, Zone1 5-1-12 to 13-0-0, Zone2 13-0-0 to 17-2-15, Zone1 17-2-15 to 19-4-4 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
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.

- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 7.0psf.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 210 lb uplift at joint 5 and 164 lb uplift at joint 9.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard



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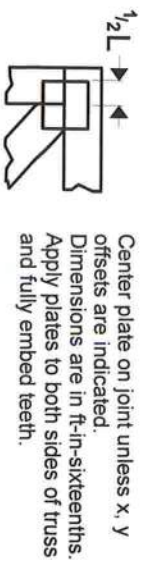
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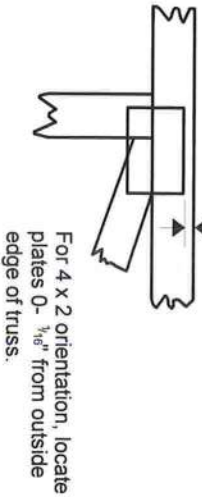
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# Symbols

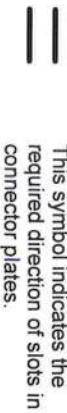
## PLATE LOCATION AND ORIENTATION



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



For 4 x 2 orientation, locate plates 0- $\frac{1}{16}$ \"/>



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

\* Plate location details available in MITek software or upon request.

## PLATE SIZE

4 X 4

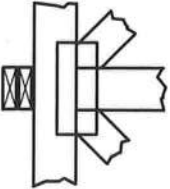
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## LATERAL BRACING LOCATION



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

## BEARING



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

## Industry Standards:

ANSI/TP1: National Design Specification for Metal Plate Connected Wood Truss Construction.  
DSB-22: Design Standard for Bracing.  
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

# Numbering System

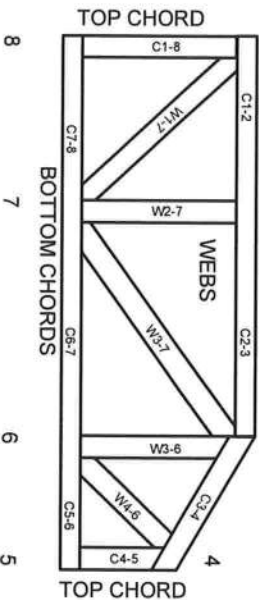


6-4-8 dimensions shown in ft-in-sixteenths (Drawings not to scale)

1 Joint ID

2 TOP CHORDS

3 typ.



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

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

## Product Code Approvals

ICC-ES Reports:

ESR-1988, ESR-2362, ESR-2685, ESR-3282  
ESR-4722, ESL-1388

## Design General Notes

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

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

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# General Safety Notes

## Failure to Follow Could Cause Property Damage or Personal Injury

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

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MITek Engineering Reference Sheet: Mill-7473 rev. 1/2/2023



