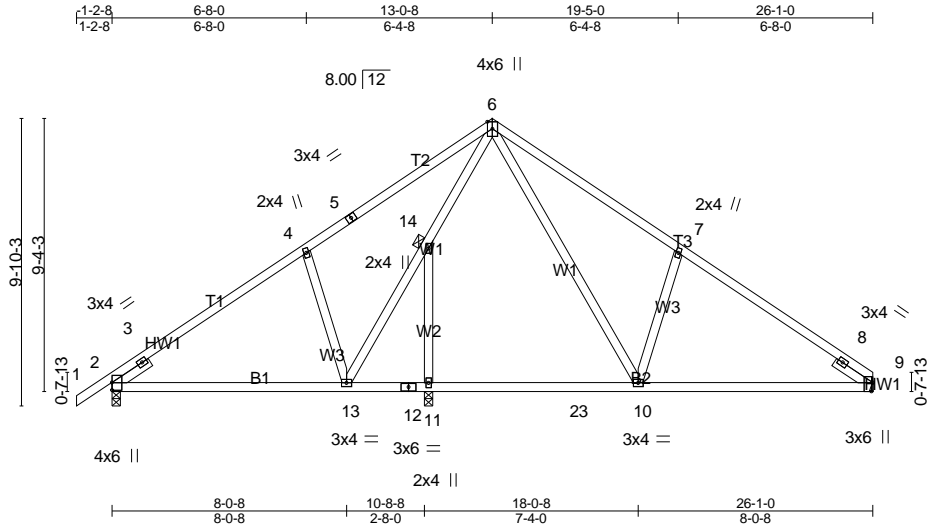


Job 2100664-2100664A	Truss A	Truss Type Common	Qty 5	Ply 1	Jackson Sanford Plan Job Reference (optional)
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84 Components, Dunn, NC 28334

8.500 s Apr 2 2021 MiTek Industries, Inc. Thu Jun 17 09:04:59 2021 Page 1
ID:HnGGz9AwBgDtIe06oN8P5Fz5Rgt-_M618ffCisRaeU3VuBfy2NRwz_z2ZzAa9QyMfNz5RS2



Scale = 1:79.0

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

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.53	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.57	Vert(LL) -0.11 10-11 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.50	Vert(CT) -0.20 13-21 >661 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.03 9 n/a n/a		
	Code IRC2015/TPI2014			Weight: 144 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
 WEBS 2x4 SP No.3
 SLIDER Left 2x4 SP No.3 -\$ 1-6-0, Right 2x4 SP No.3 -\$ 1-6-0

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-5-15 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 JOINTS 1 Brace at Jt(s): 14

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 9=967/Mechanical, 2=1013/0-3-8 (min. 0-1-9), 11=179/0-3-8 (min. 0-1-8)
 Max Horz 2=228(LC 11)
 Max Uplift 9=130(LC 13), 2=163(LC 12)
 Max Grav 9=967(LC 1), 2=1013(LC 1), 11=319(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-700/0, 3-4=-1242/310, 4-5=-1160/384, 5-6=-1098/422, 6-7=-1225/410, 7-8=-1308/296, 8-9=-689/0
 BOT CHORD 2-13=-224/991, 12-13=-41/656, 11-12=-41/656, 11-23=-41/656, 10-23=-41/656, 9-10=-148/1024
 WEBS 4-13=-398/266, 13-14=-223/527, 6-14=-219/499, 6-10=-198/662, 7-10=-390/270

NOTES-

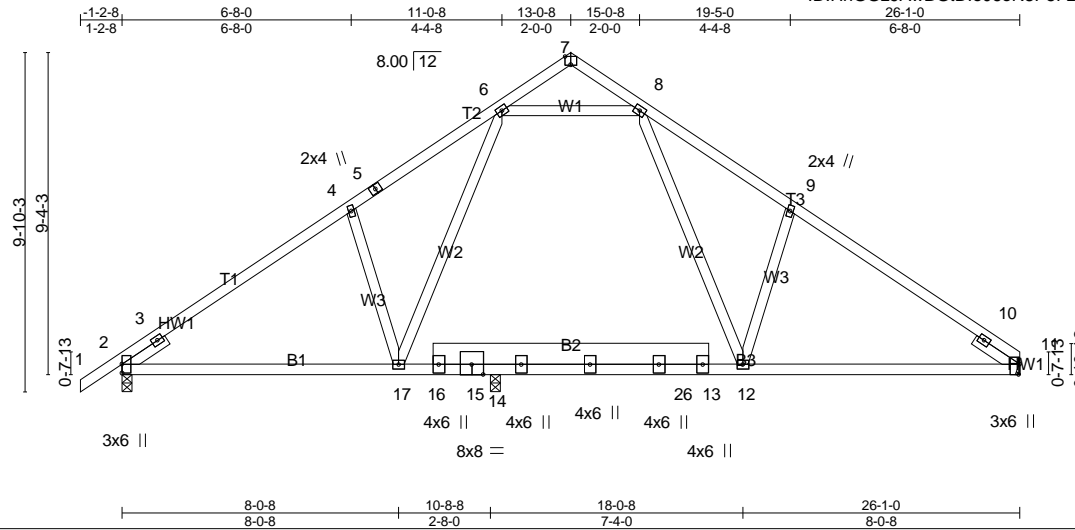
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=130.
- 7) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- 8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job 2100664-2100664A	Truss A1	Truss Type ROOF TRUSS	Qty 5	Ply 1	Jackson Sanford Plan Job Reference (optional)
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84 Components, Dunn, NC 28334

8.500 s Apr 2 2021 MiTek Industries, Inc. Thu Jun 17 09:05:01 2021 Page 1
ID:HnGGz9AwBGtDle06oN8P5Fz5Rgt-xkEnZKhSEThHuoDt0ciQ7oWGwoej1vltDkRSkGz5RS0



Scale = 1:66.9

Plate Offsets (X,Y)-- [2:0-3-2,0-0-1], [7:0-2-0,Edge], [11:0-3-10,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.54	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.56	Vert(LL) 0.14 17-24 >927 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.27	Vert(CT) -0.24 12-20 >754 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.02 2 n/a n/a		
	Code IRC2015/TPI2014			Weight: 161 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2 *Except*
 B2: 2x8 SP No.2
 WEBS 2x4 SP No.3
 SLIDER Left 2x4 SP No.3 -\$ 1-6-0, Right 2x4 SP No.3 -\$ 1-6-0

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-8-4 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 11=943/Mechanical, 2=978/0-3-8 (min. 0-1-9), 14=238/0-3-8 (min. 0-1-8)
 Max Horz 2=228(LC 11)
 Max Uplift 11=170(LC 13), 2=-144(LC 13), 14=-113(LC 9)
 Max Grav 11=962(LC 21), 2=978(LC 1), 14=478(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-641/0, 3-4=-1193/294, 4-5=-1079/341, 5-6=-1071/367, 8-9=-1238/370, 9-10=-1280/276, 10-11=-724/0
 BOT CHORD 2-17=-128/913, 16-17=-29/725, 15-16=-29/725, 14-15=-33/733, 14-26=-29/727, 13-26=-30/724, 12-13=-29/725, 11-12=-127/989
 WEBS 4-17=-350/262, 6-17=-114/390, 8-12=-187/612, 9-12=-386/249, 6-8=-747/308

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are 3x4 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=170.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 14. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Jackson Sanford Plan
2100664-2100664A	A1	ROOF TRUSS	5	1	Job Reference (optional)

84 Components, Dunn, NC 28334

8.500 s Apr 2 2021 MiTek Industries, Inc. Thu Jun 17 09:05:01 2021 Page 2
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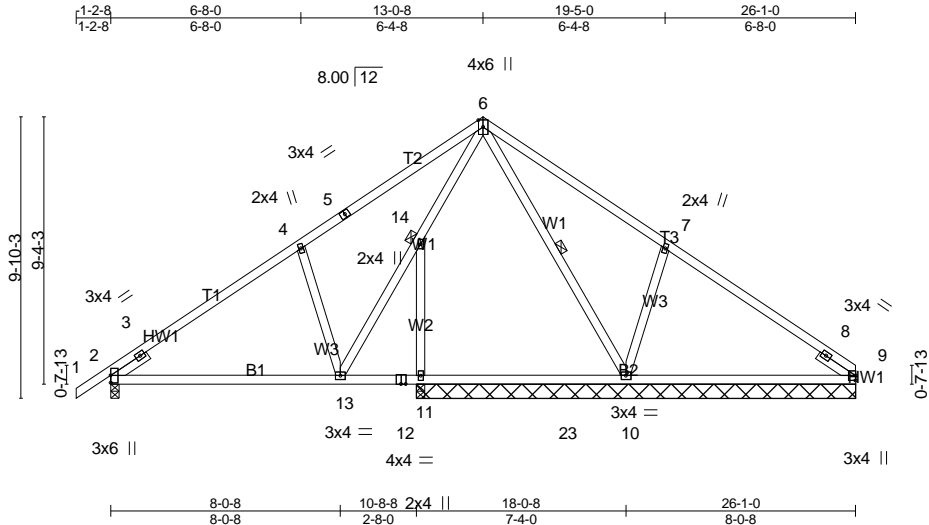
LOAD CASE(S) Standard

Job 2100664-2100664A	Truss A1A	Truss Type Common Structural Gable	Qty 1	Ply 1	Jackson Sanford Plan Job Reference (optional)
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84 Components, Dunn, NC 28334

8.500 s Apr 2 2021 MiTek Industries, Inc. Thu Jun 17 09:05:03 2021 Page 1

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Scale = 1:80.7

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

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.57	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.53	Vert(LL) -0.11 10-11 >792 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.32	Vert(CT) -0.18 13-21 >706 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.02 15 n/a n/a		
	Code IRC2015/TPI2014			Weight: 144 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
 WEBS 2x4 SP No.3
 SLIDER Left 2x4 SP No.3 -\$ 1-6-0, Right 2x4 SP No.3 -\$ 1-6-0

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-6-14 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 6-10
 JOINTS 1 Brace at Jt(s): 14

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS.

All bearings 15-4-8 except (jt=length) 2=0-3-8.
 (lb) - Max Horz 2=228(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 9, 10 except 2=-139(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 11 except 9=455(LC 1), 2=819(LC 1), 10=792(LC 1), 11=273(LC 18), 9=455(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-603/0, 3-4=-924/251, 4-5=-876/325, 5-6=-836/364, 6-7=-482/253, 7-8=-451/137, 8-9=-476/0
 BOT CHORD 2-13=-193/743, 12-13=-13/368, 11-12=-13/368, 11-23=-13/368, 10-23=-13/368, 9-10=-18/325
 WEBS 4-13=-407/267, 13-14=-232/586, 6-14=-231/582, 6-10=-337/124, 7-10=-417/273

NOTES-

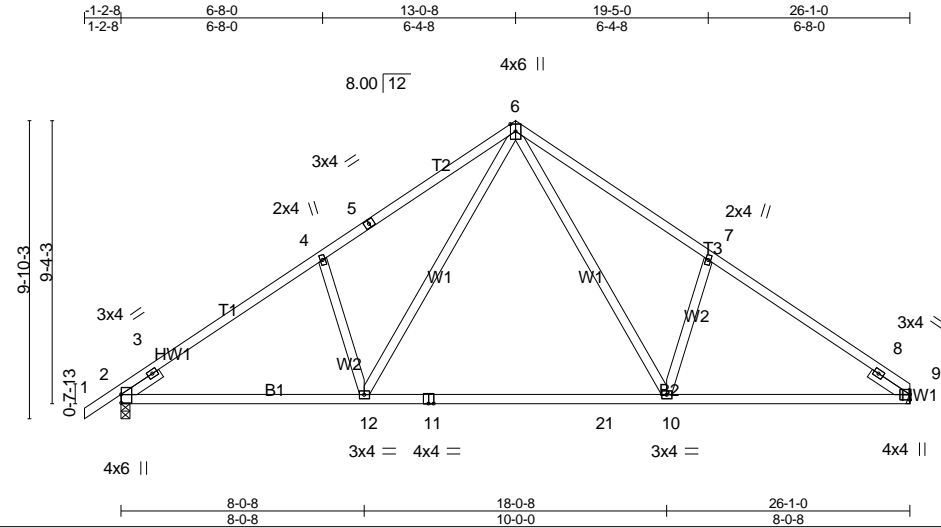
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 9, 2, and 10. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job 2100664-2100664A	Truss A2	Truss Type Common	Qty 7	Ply 1	Jackson Sanford Plan Job Reference (optional)
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84 Components, Dunn, NC 28334

8.500 s Apr 2 2021 MiTek Industries, Inc. Thu Jun 17 09:05:04 2021 Page 1
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Scale = 1:76.2

Plate Offsets (X,Y)-- [2:0-3-6,0-0-1]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.52	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.93	Vert(LL) -0.44 10-12 >711 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.38	Vert(CT) -0.65 10-12 >483 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.04 9 n/a n/a		
	Code IRC2015/TPI2014			Weight: 136 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2 *Except*
 B2: 2x4 SP No.1
 WEBS 2x4 SP No.3
 SLIDER Left 2x4 SP No.3 -\$ 1-6-0, Right 2x4 SP No.3 -\$ 1-6-0

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-1-9 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 9=1042/Mechanical, 2=1118/0-3-8 (min. 0-1-12)

Max Horz 2=228(LC 11)
 Max Uplift 9=110(LC 13), 2=137(LC 12)
 Max Grav 9=1044(LC 20), 2=1118(LC 1)

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

TOP CHORD 2-3=-628/0, 3-4=-1463/262, 4-5=-1415/338, 5-6=-1319/376, 6-7=-1425/378, 7-8=-1472/263, 8-9=-641/0
 BOT CHORD 2-12=-183/1294, 11-12=-18/834, 11-21=-18/834, 10-21=-18/834, 9-10=-121/1148
 WEBS 4-12=-375/271, 6-12=-180/733, 6-10=-182/747, 7-10=-374/273

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=110.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

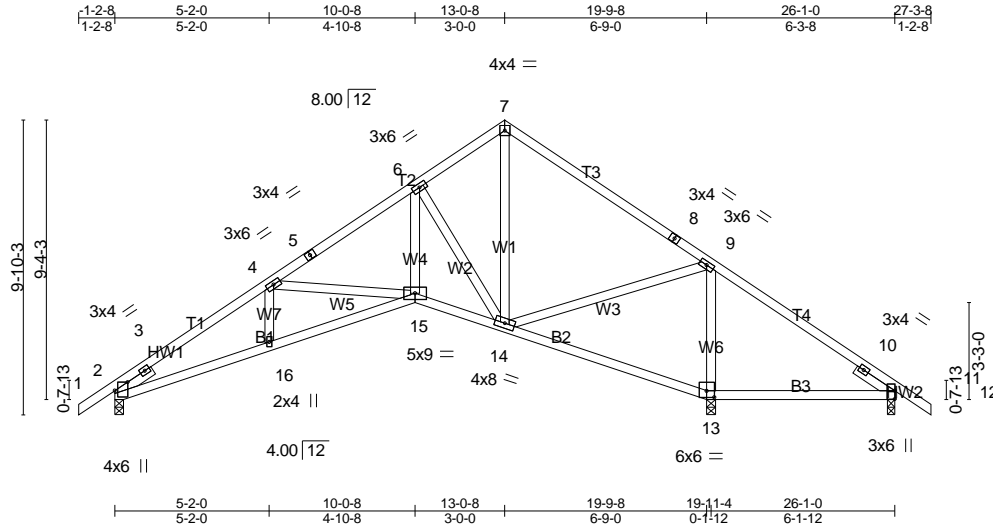
LOAD CASE(S) Standard

Job 2100664-2100664A	Truss A4	Truss Type Roof Special	Qty 5	Ply 1	Jackson Sanford Plan Job Reference (optional)
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84 Components, Dunn, NC 28334

8.500 s Apr 2 2021 MiTek Industries, Inc. Thu Jun 17 09:05:08 2021 Page 1

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Scale = 1:77.0

Plate Offsets (X,Y)-- [2:0-3-7,Edge], [11:0-3-6,0-0-1], [13:0-3-0,0-2-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.75	Vert(LL)	-0.07	15-16	>999	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.56	Vert(CT)	-0.16	15-16	>999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.55	Horz(CT)	0.10	13	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS						
	Code IRC2015/TPI2014						Weight: 146 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
 WEBS 2x4 SP No.3
 SLIDER Left 2x4 SP No.3 -\$ 1-6-0, Right 2x4 SP No.3 -\$ 1-6-0

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-2-12 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 2=766/0-3-8 (min. 0-1-8), 13=1450/0-3-8 (min. 0-2-4), 11=15/0-3-0 (min. 0-1-8)
 Max Horz 2=235(LC 11)
 Max Uplift 2=-104(LC 12), 13=-134(LC 12), 11=-164(LC 23)
 Max Grav 2=766(LC 1), 13=1450(LC 1), 11=179(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-519/34, 3-4=-1492/244, 4-5=-1031/137, 5-6=-954/167, 6-7=-506/194, 7-8=-455/162, 8-9=-548/120, 9-10=-76/613
 BOT CHORD 2-16=-274/1371, 15-16=-275/1383, 14-15=-54/926, 13-14=-474/122, 11-13=-395/97
 WEBS 4-15=-461/210, 6-15=-88/837, 6-14=-929/221, 7-14=-67/301, 9-14=-29/849, 9-13=-1165/195

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 13, and 11. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

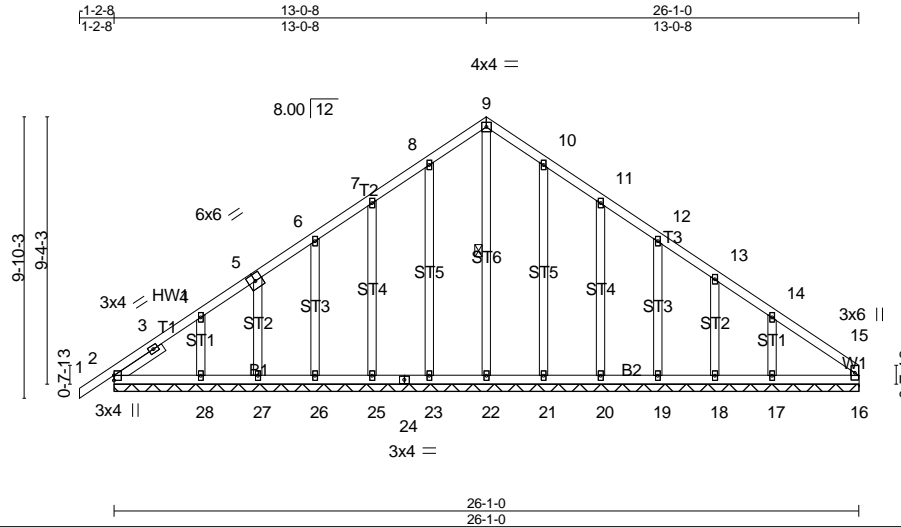
LOAD CASE(S) Standard

Job 2100664-2100664A	Truss AE	Truss Type Common Supported Gable	Qty 2	Ply 1	Jackson Sanford Plan Job Reference (optional)
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84 Components, Dunn, NC 28334

8.500 s Apr 2 2021 MiTek Industries, Inc. Thu Jun 17 09:05:13 2021 Page 1

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Scale = 1:80.7

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

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.11	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.08	Vert(LL) -0.00 1 n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.16	Vert(CT) 0.00 1 n/r 90		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 16 n/a n/a		
	Code IRC2015/TPI2014			Weight: 176 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
 WEBS 2x4 SP No.3
 OTHERS 2x4 SP No.3
 SLIDER Left 2x4 SP No.3 - \$ 2-0-0

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 9-22

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS.

All bearings 26-1-0.
 (lb) - Max Horz 2=230(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 22, 23, 25, 26, 27, 21, 20, 19, 18 except 28=111(LC 12), 17=126(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 16, 2, 22, 23, 25, 26, 27, 28, 21, 20, 19, 18 except 17=259(LC 20)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 22, 23, 25, 26, 27, 28, 21, 20, 19, 18, and 17. This connection is for uplift only and does not consider lateral forces.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job 2100664-2100664A	Truss B	Truss Type Common	Qty 3	Ply 1	Jackson Sanford Plan Job Reference (optional)
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84 Components, Dunn, NC 28334

8.500 s Apr 2 2021 MiTek Industries, Inc. Thu Jun 17 09:05:19 2021 Page 1
ID:HnGGz9AwBGtDle06oN8P5Fz5Rgt-PCJbKUvk_?yk2ZbL3O0esbGLA2kaF3RWmYoPLDz5RRk

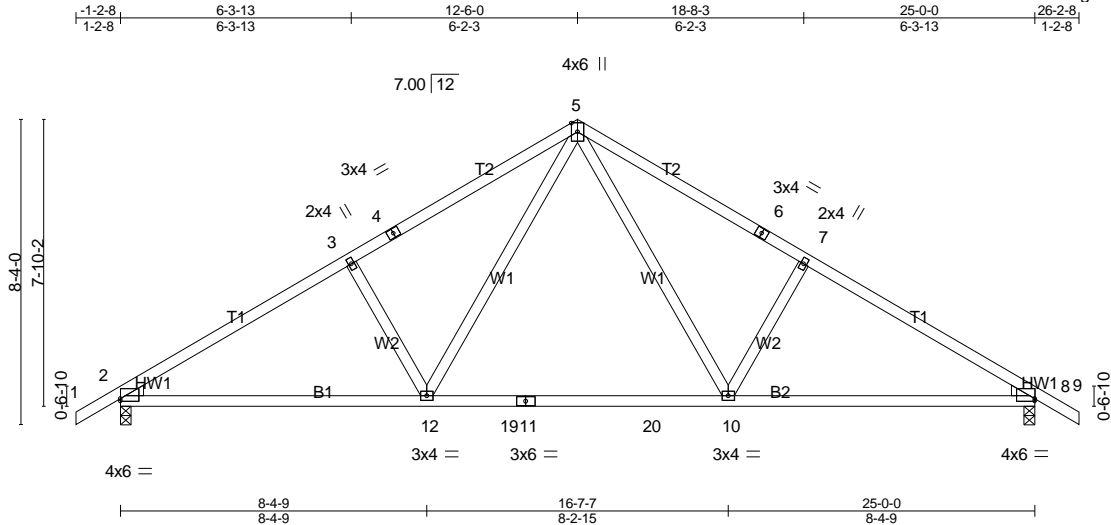


Plate Offsets (X,Y)-- [2:0-0-0,0-0-13], [8:0-0-0,0-0-13]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.49	Vert(LL)	-0.22	10-12	>999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.71	Vert(CT)	-0.33	10-12	>916		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.23	Horz(CT)	0.04	8	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS						
								Weight: 123 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
 WEBS 2x4 SP No.3
 WEDGE
 Left: 2x4 SP No.3 , Right: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-4-14 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 2=1073/0-3-8 (min. 0-1-11), 8=1072/0-3-8 (min. 0-1-11)

Max Horz 2=198(LC 11)
 Max Uplift 2=-138(LC 12), 8=-138(LC 13)

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

TOP CHORD 2-3=-1529/277, 3-4=-1361/286, 4-5=-1275/320, 5-6=-1275/320, 6-7=-1361/286, 7-8=-1529/277
 BOT CHORD 2-12=-188/1360, 12-19=-17/885, 11-19=-17/885, 11-20=-17/885, 10-20=-17/885, 8-10=-135/1242
 WEBS 5-10=-122/628, 7-10=-360/233, 5-12=-122/628, 3-12=-360/233

NOTES-

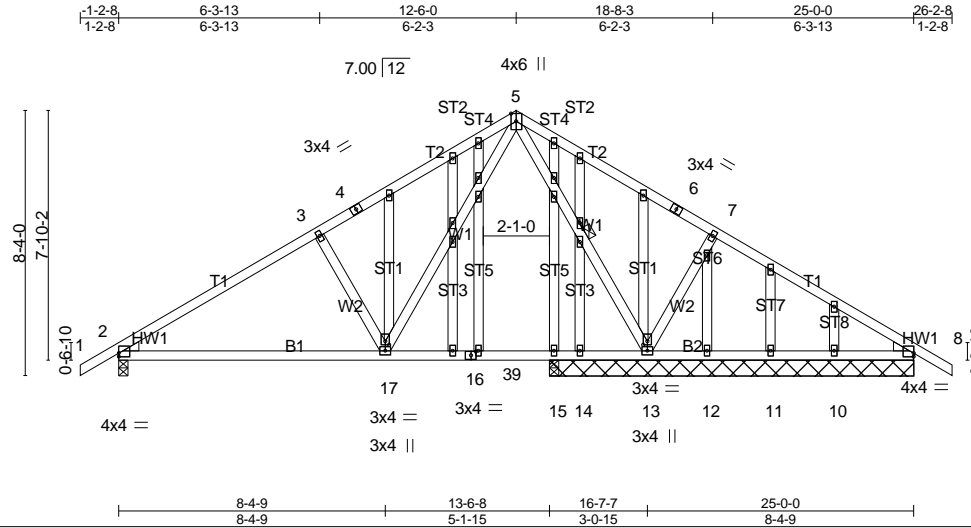
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) One MTS12 Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 8. This connection is for uplift only and does not consider lateral forces.
- 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job 2100664-2100664A	Truss BE	Truss Type GABLE	Qty 1	Ply 1	Jackson Sanford Plan Job Reference (optional)
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84 Components, Dunn, NC 28334

8.500 s Apr 2 2021 MiTek Industries, Inc. Thu Jun 17 09:05:21 2021 Page 1
ID:HnGGz9AwBgTDle06oN8P5Fz5Rgt-LbRLIAw?WcCSHtjBp36x0LhMsTSjySpDrHWQ5z5RRi



Scale = 1:72.5

Plate Offsets (X,Y)-- [2:0-0-0,0-1-5], [8:0-0-0,0-1-5], [13:0-1-4,0-1-8], [16:0-1-12,0-1-8], [17:0-1-4,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.51	Vert(LL)	-0.10	17-35	>999	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.55	Vert(CT)	-0.22	17-35	>748		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.26	Horz(CT)	0.01	36	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS						
	Code IRC2015/TPI2014						Weight: 186 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
 WEBS 2x4 SP No.3
 OTHERS 2x4 SP No.3
 WEDGE
 Left: 2x4 SP No.3 , Right: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-10-7 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 5-13

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS.

All bearings 11-5-8 except (jt=length) 2=0-3-8.
 (lb) - Max Horz 2=198(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 10, 8 except 2=-115(LC 12), 13=-160(LC 12), 14=-101(LC 18)
 Max Grav All reactions 250 lb or less at joint(s) 15, 14, 12, 11, 10 except 2=710(LC 1), 13=902(LC 1), 15=300(LC 18), 8=310(LC 24), 8=283(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-848/186, 3-4=-677/195, 4-5=-641/229, 7-8=-250/85
 BOT CHORD 2-17=-154/754, 17-39=-15/286, 16-39=-15/286, 15-16=-15/286, 14-15=-15/286, 13-14=-15/286
 WEBS 5-13=-639/115, 7-13=-380/237, 5-17=-135/586, 3-17=-387/234

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Jackson Sanford Plan
2100664-2100664A	BE	GABLE	1	1	Job Reference (optional)

84 Components, Dunn, NC 28334

8.500 s Apr 2 2021 MiTek Industries, Inc. Thu Jun 17 09:05:21 2021 Page 2
 ID:HnGGz9AwBGtDle06oN8P5Fz5Rgt-LbRLIAw?WcCSHtjBp36x0LhMsTSjySpDrHWQ5z5RRi

NOTES-

- 8) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 13, 14, 10, and 8. This connection is for uplift only and does not consider lateral forces.
- 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

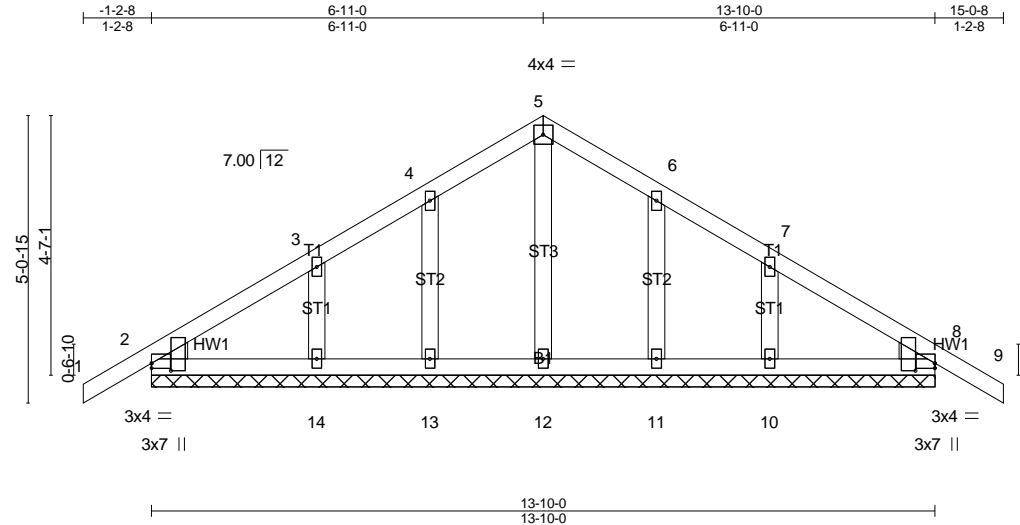
LOAD CASE(S) Standard

Job 2100664-2100664A	Truss BEE	Truss Type Common Supported Gable	Qty 1	Ply 1	Jackson Sanford Plan Job Reference (optional)
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84 Components, Dunn, NC 28334

8.500 s Apr 2 2021 MiTek Industries, Inc. Thu Jun 17 09:05:23 2021 Page 1

ID:HnGGz9AwBgTDle06oN8P5Fz5Rgt-HzZ6AsyF2DSAXAv6IE5a1RR7KgGZBwR6g9mdU_z5RRg



Scale = 1:40.7

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

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.10	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.07	Vert(LL) -0.00 9 n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.04	Vert(CT) -0.00 9 n/r 90		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 8 n/a n/a		
	Code IRC2015/TPI2014			Weight: 70 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
 OTHERS 2x4 SP No.3
 WEDGE
 Left: 2x4 SP No.3 , Right: 2x4 SP No.3

BRACING-

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS.

All bearings 13-10-0.
 (lb) - Max Horz 2=-117(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 8, 13, 14, 11, 10
 Max Grav All reactions 250 lb or less at joint(s) 2, 8, 12, 13, 14, 11, 10

FORCES.

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 8, 13, 14, 11, and 10. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

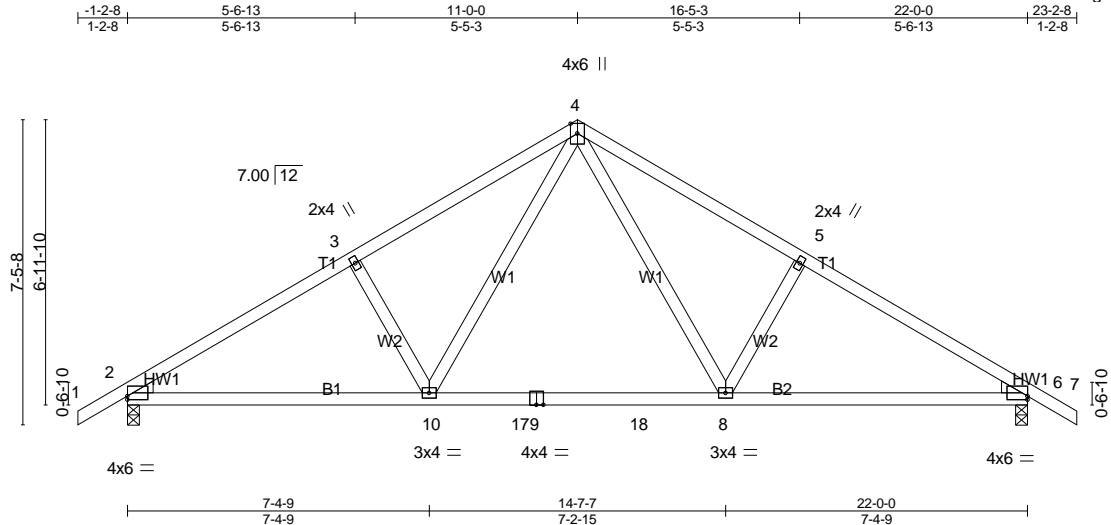
LOAD CASE(S) Standard

Job 2100664-2100664A	Truss C	Truss Type Common	Qty 4	Ply 1	Jackson Sanford Plan Job Reference (optional)
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84 Components, Dunn, NC 28334

8.500 s Apr 2 2021 MiTek Industries, Inc. Thu Jun 17 09:05:30 2021 Page 1

ID:HnGGz9AwBGtDle06oN8P5Fz5Rgt-aJUleF1ePNLAsFxSDCjDpvDGOUYmK2j8HlyVE4z5RRZ



Scale = 1:56.3

Plate Offsets (X,Y)-- [2:0-0-0,0-1-1], [6:Edge,0-1-1]									
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.36	Vert(LL)	-0.13	8-10	>999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.54	Vert(CT)	-0.21	8-10	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.19	Horz(CT)	0.03	6	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS						
								Weight: 109 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
 WEBS 2x4 SP No.3
 WEDGE
 Left: 2x4 SP No.3 , Right: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-10-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 2=952/0-3-8 (min. 0-1-8), 6=952/0-3-8 (min. 0-1-8)

Max Horz 2=-176(LC 10)
 Max Uplift 2=-125(LC 12), 6=-125(LC 13)

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

TOP CHORD 2-3=-1331/241, 3-4=-1177/279, 4-5=-1177/279, 5-6=-1331/241
 BOT CHORD 2-10=-162/1170, 10-17=-14/765, 9-17=-14/765, 9-18=-14/765, 8-18=-14/765, 6-8=-113/1079
 WEBS 4-8=-106/533, 5-8=-312/204, 4-10=-106/533, 3-10=-311/204

NOTES-

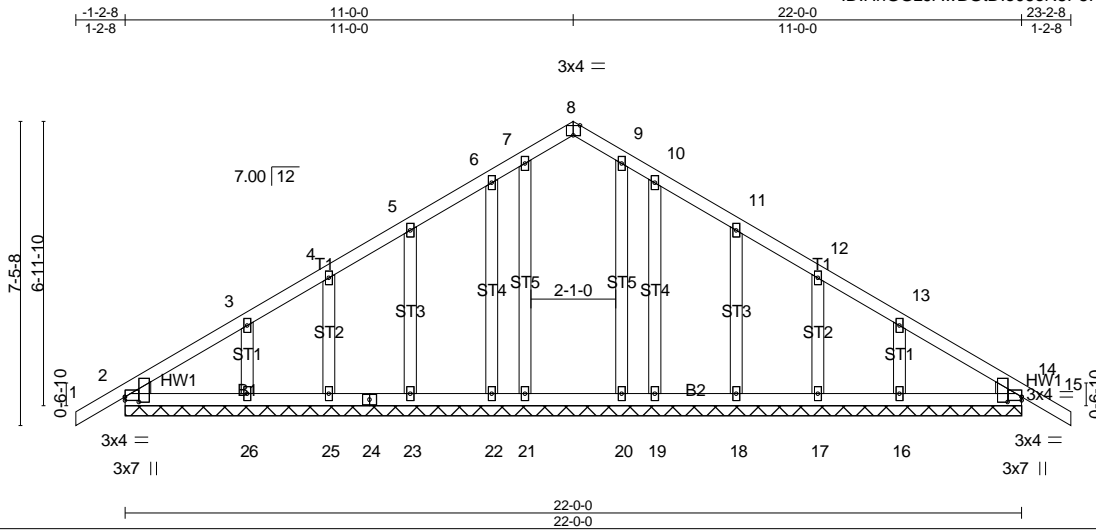
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- One MTS12 Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 6. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job 2100664-2100664A	Truss CE	Truss Type GABLE	Qty 1	Ply 1	Jackson Sanford Plan Job Reference (optional)
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84 Components, Dunn, NC 28334

8.500 s Apr 2 2021 MiTek Industries, Inc. Thu Jun 17 09:05:32 2021 Page 1
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Scale = 1:56.5

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

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.10	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.06	Vert(LL) -0.00 15 n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.06	Vert(CT) 0.00 14 n/r 90		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.01 14 n/a n/a		
	Code IRC2015/TPI2014			Weight: 135 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
 OTHERS 2x4 SP No.3
 WEDGE
 Left: 2x4 SP No.3 , Right: 2x4 SP No.3

BRACING-

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS.

All bearings 22-0-0.
 (lb) - Max Horz 2=-176(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 22, 23, 25, 26, 19, 18, 17, 16
 Max Grav All reactions 250 lb or less at joint(s) 2, 21, 20, 22, 23, 25, 26, 19, 18, 17, 16, 14

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

NOTES-

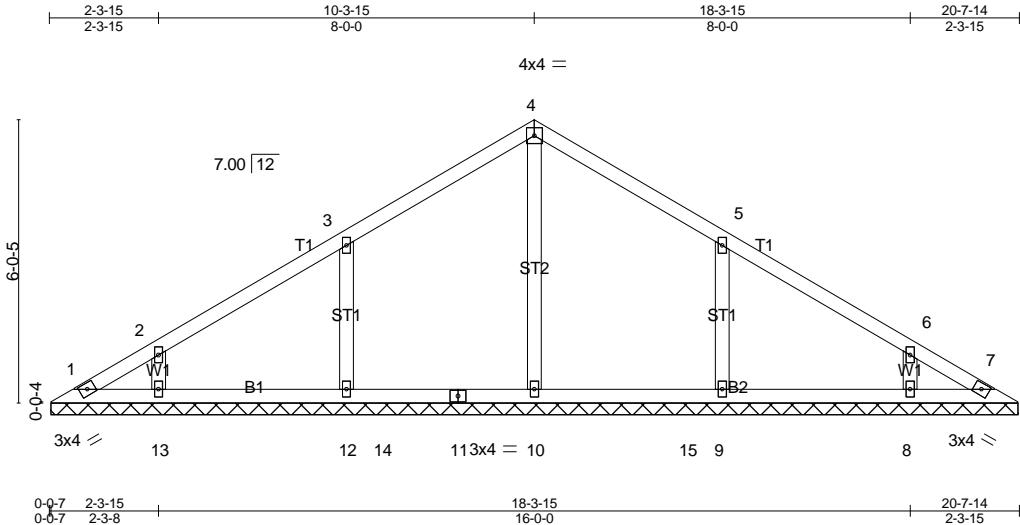
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 22, 23, 25, 26, 19, 18, 17, and 16. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job 2100664-2100664A	Truss V1	Truss Type Valley	Qty 1	Ply 1	Jackson Sanford Plan Job Reference (optional)
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84 Components, Dunn, NC 28334

8.500 s Apr 2 2021 MiTek Industries, Inc. Thu Jun 17 09:05:38 2021 Page 1
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Scale = 1:49.1

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.35	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.31	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.12	Horz(CT) 0.00 7 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 84 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.3
BOT CHORD 2x4 SP No.3
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 20-7-0.
(lb) - Max Horz 1=-141(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 13, 8 except 12=-127(LC 12), 9=-127(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 10=384(LC 19), 12=403(LC 19), 9=403(LC 20), 13=267(LC 19), 8=267(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-12=-284/177, 5-9=-283/177

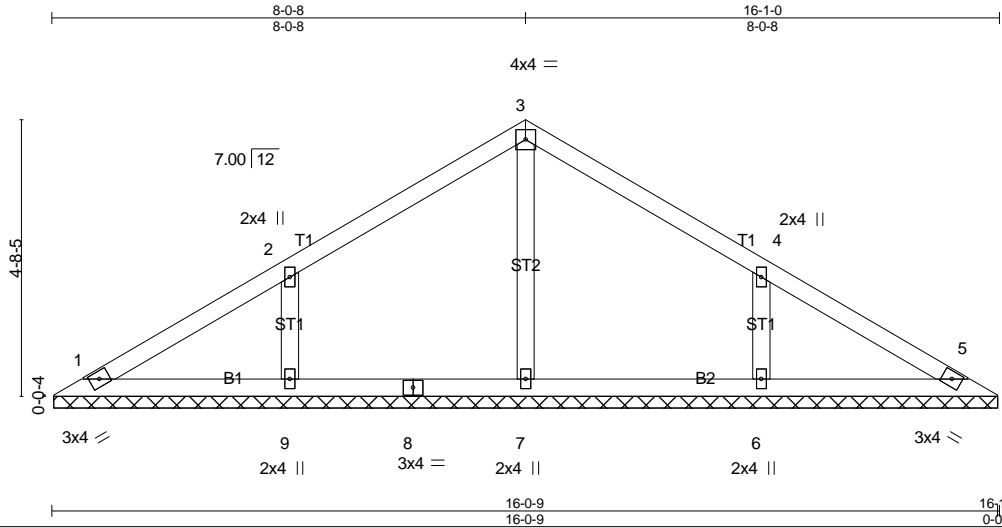
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - One MTS12 Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 7. This connection is for uplift only and does not consider lateral forces.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 12, 9, 13, and 8. This connection is for uplift only and does not consider lateral forces.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job 2100664-2100664A	Truss V2	Truss Type Valley	Qty 1	Ply 1	Jackson Sanford Plan Job Reference (optional)
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84 Components, Dunn, NC 28334

8.500 s Apr 2 2021 MiTek Industries, Inc. Thu Jun 17 09:05:40 2021 Page 1
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Scale = 1:39.1

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.34	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.19	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.07	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 5 n/a n/a		
	Code IRC2015/TPI2014			Weight: 61 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.3
BOT CHORD 2x4 SP No.3
OTHERS 2x4 SP No.3

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 16-0-2.
(lb) - Max Horz 1=108(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 1 except 9=-129(LC 12), 6=-129(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=261(LC 1), 9=371(LC 19), 6=371(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-9=-282/174, 4-6=-282/174

NOTES-

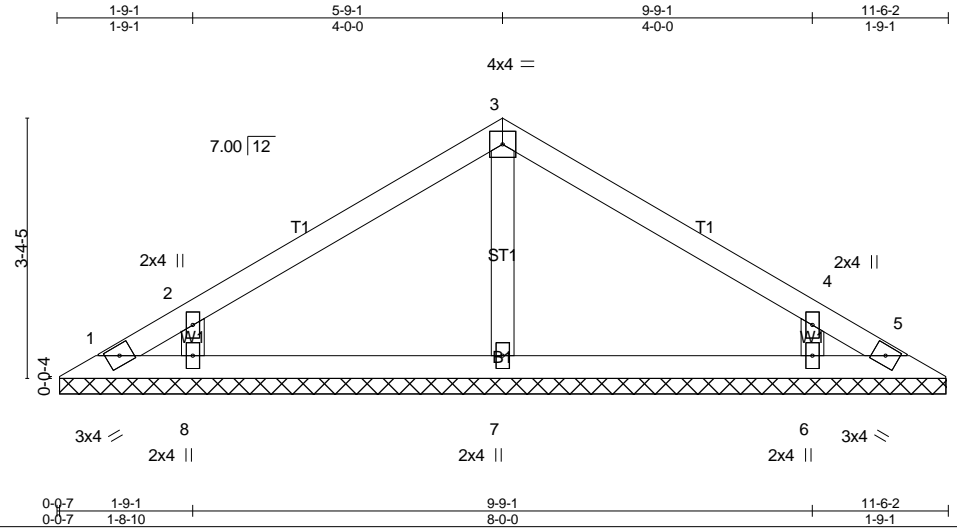
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- One MTS12 Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1. This connection is for uplift only and does not consider lateral forces.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 9 and 6. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job 2100664-2100664A	Truss V3	Truss Type Valley	Qty 1	Ply 1	Jackson Sanford Plan Job Reference (optional)
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84 Components, Dunn, NC 28334

8.500 s Apr 2 2021 MiTek Industries, Inc. Thu Jun 17 09:05:42 2021 Page 1
ID:HnGGz9AwBGtDle06oN8P5Fz5Rgt-EdCH9MBAa3rTJ5smwjx1IRjJaKjq8Wvv2ds7fNz5RRN



Scale = 1:29.8

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.35	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.20	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.05	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 5 n/a n/a		
	Code IRC2015/TPI2014			Weight: 40 lb	FT = 20%

LUMBER-

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

BRACING-

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS.

All bearings 11-5-5.
(lb) - Max Horz 1=-75(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-131(LC 12), 6=-131(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=252(LC 1), 8=341(LC 19), 6=341(LC 20)

FORCES.

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

WEBS 2-8=-275/171, 4-6=-275/171

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- One MTS12 Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 5. This connection is for uplift only and does not consider lateral forces.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 8 and 6. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

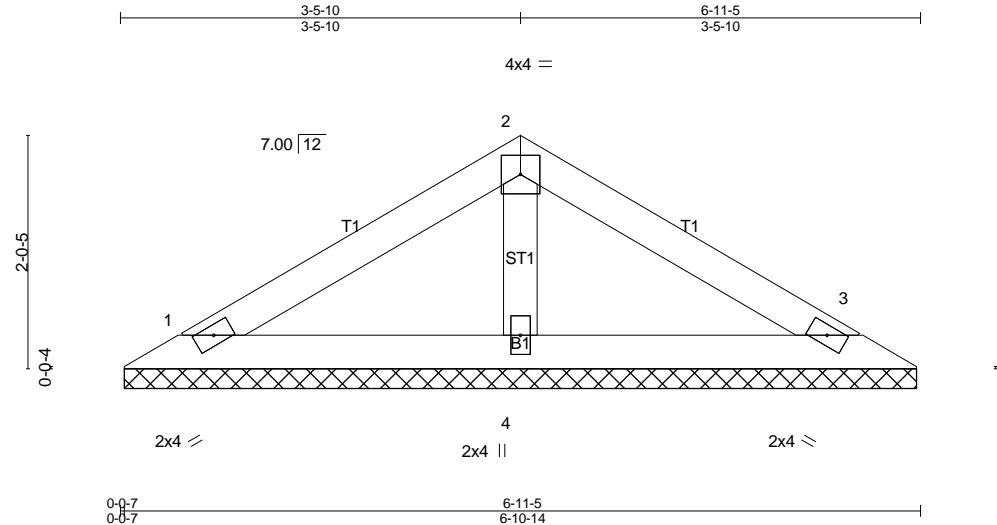
LOAD CASE(S) Standard

Job 2100664-2100664A	Truss V4	Truss Type Valley	Qty 1	Ply 1	Jackson Sanford Plan Job Reference (optional)
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84 Components, Dunn, NC 28334

8.500 s Apr 2 2021 MiTek Industries, Inc. Thu Jun 17 09:05:43 2021 Page 1

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Scale = 1:20.0

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.26	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.15	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.03	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 3 n/a n/a		
	Code IRC2015/TPI2014			Weight: 22 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.3
 BOT CHORD 2x4 SP No.3
 OTHERS 2x4 SP No.3

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 1=122/6-10-7 (min. 0-1-8), 3=122/6-10-7 (min. 0-1-8), 4=225/6-10-7 (min. 0-1-8)
 Max Horz 1=42(LC 11)
 Max Uplift1=-28(LC 12), 3=-33(LC 13)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) One MTS12 Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 3. This connection is for uplift only and does not consider lateral forces.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

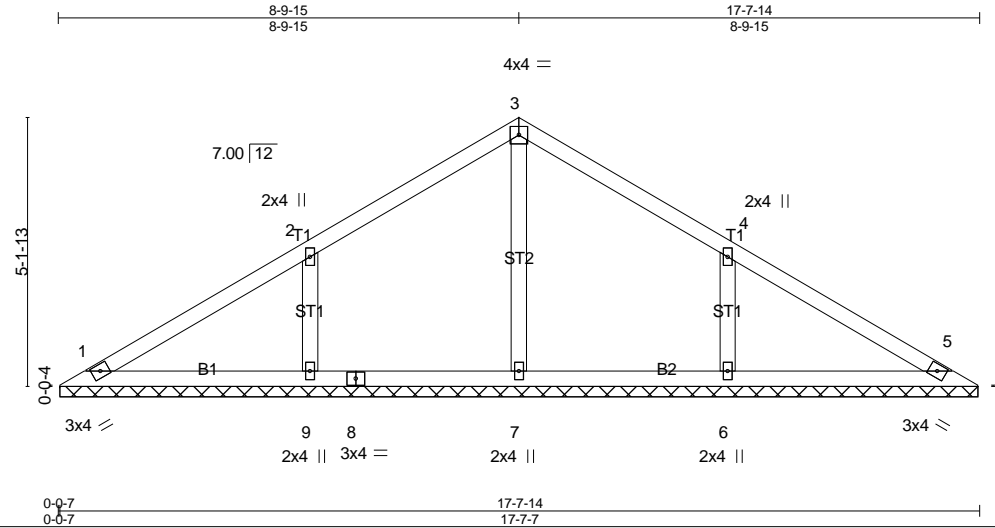
LOAD CASE(S) Standard

Job 2100664-2100664A	Truss V5	Truss Type Valley	Qty 1	Ply 1	Jackson Sanford Plan Job Reference (optional)
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84 Components, Dunn, NC 28334

8.500 s Apr 2 2021 MiTek Industries, Inc. Thu Jun 17 09:05:45 2021 Page 1

ID:HnGGz9AwBGtDle06oN8P5Fz5Rgt-eCuQoND2s_E2AZbKbrUkw4LpnXknLs9Lka5nGiz5RRK



Scale = 1:44.1

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.42	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.25	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.08	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 68 lb	FT = 20%

LUMBER-

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

BRACING-

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS.

All bearings 17-7-0.
 (lb) - Max Horz 1=-120(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 9=-143(LC 12), 6=-143(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 9=417(LC 19), 6=417(LC 20)

FORCES.

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

WEBS

2-9=-313/192, 4-6=-313/191

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- One MTS12 Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 5. This connection is for uplift only and does not consider lateral forces.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 9 and 6. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

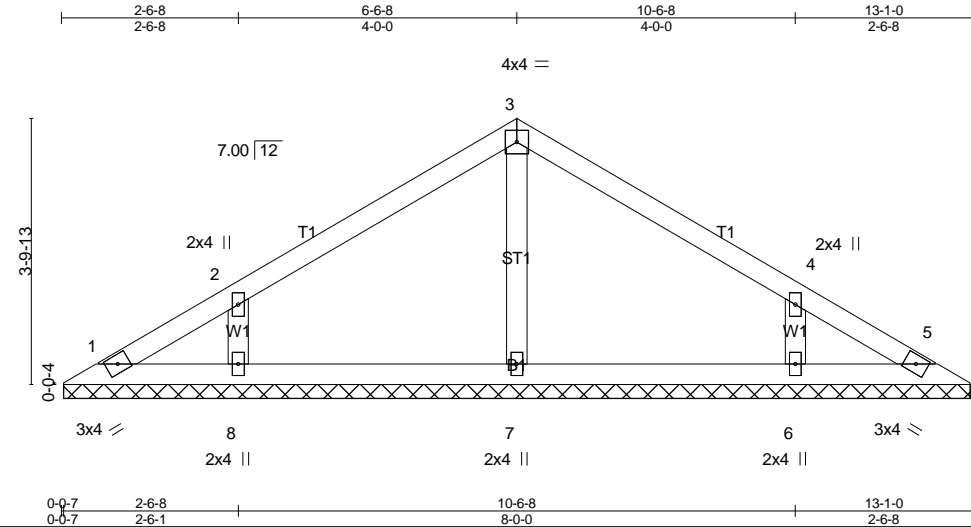
LOAD CASE(S) Standard

Job 2100664-2100664A	Truss V6	Truss Type Valley	Qty 1	Ply 1	Jackson Sanford Plan Job Reference (optional)
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84 Components, Dunn, NC 28334

8.500 s Apr 2 2021 MiTek Industries, Inc. Thu Jun 17 09:05:48 2021 Page 1

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Scale = 1:33.1

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.34	in (loc) l/def L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.12	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.05	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 5 n/a n/a		
	Code IRC2015/TPI2014			Weight: 48 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.3
 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
 WEBS 2x4 SP No.3
 OTHERS 2x4 SP No.3

BRACING-

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS.

All bearings 13-0-2.
 (lb) - Max Horz 1=87(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=-123(LC 12), 6=-123(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=253(LC 1), 8=331(LC 19), 6=331(LC 20)

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

WEBS 2-8=-264/164, 4-6=-264/164

NOTES-

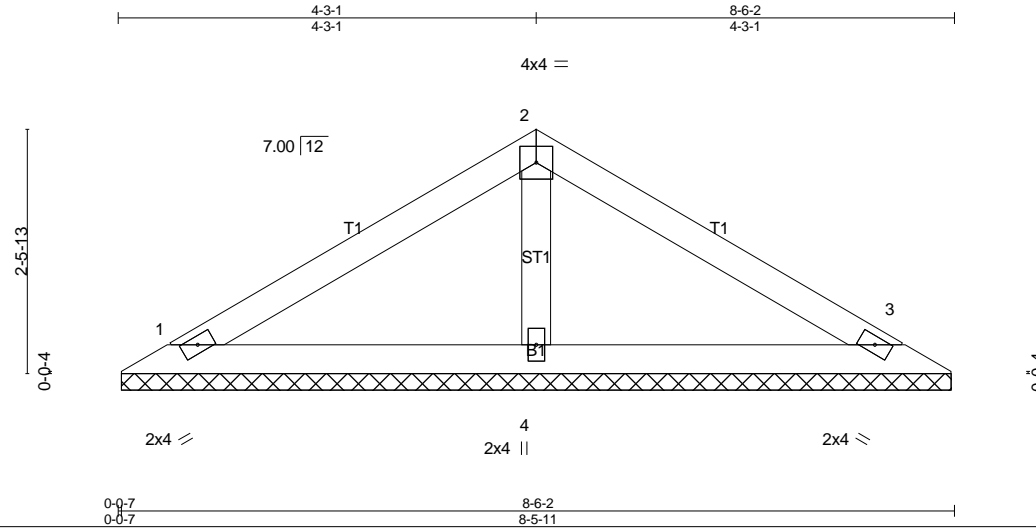
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- One MTS12 Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1. This connection is for uplift only and does not consider lateral forces.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 8 and 6. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job 2100664-2100664A	Truss V7	Truss Type Valley	Qty 1	Ply 1	Jackson Sanford Plan Job Reference (optional)
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84 Components, Dunn, NC 28334

8.500 s Apr 2 2021 MiTek Industries, Inc. Thu Jun 17 09:05:50 2021 Page 1
ID:HnGGz9AwBgTDle06oN8P5Fz5Rgt-?AhJr5HBhWskGKTiOP4wd72f6YSD0814usoYxwz5RRF



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.44	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.24	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.04	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 3 n/a n/a		
	Code IRC2015/TPI2014			Weight: 28 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.3
 BOT CHORD 2x4 SP No.3
 OTHERS 2x4 SP No.3

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 1=154/8-5-5 (min. 0-1-8), 3=154/8-5-5 (min. 0-1-8), 4=286/8-5-5 (min. 0-1-8)
 Max Horz 1=-54(LC 10)
 Max Uplift1=-35(LC 12), 3=-42(LC 13)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) One MTS12 Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 3. This connection is for uplift only and does not consider lateral forces.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

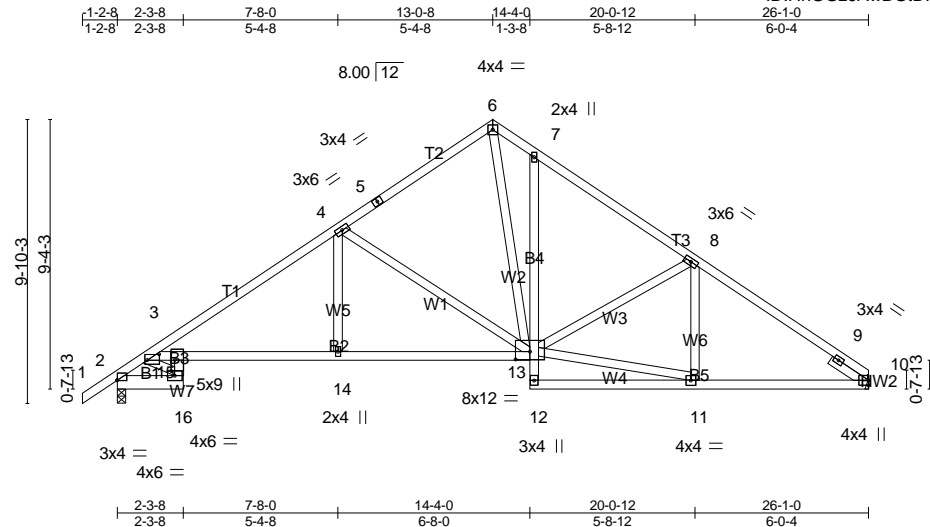
LOAD CASE(S) Standard

Job 2100664-2100664A	Truss A3	Truss Type Roof Special	Qty 4	Ply 1	Jackson Sanford Plan Job Reference (optional)
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84 Components, Dunn, NC 28334

8.500 s Apr 2 2021 MiTek Industries, Inc. Thu Jun 17 09:05:06 2021 Page 1

ID:HnGGz9AwBGtDle06oN8P5Fz5Rgt-Hi1gc2lb2?Ja_Z6rp9lbqrE?fpHci?Fcm08DOTz5RRx



Scale = 1:80.0

Plate Offsets (X,Y)-- [2:0-0-0,0-0-1], [3:0-4-14,0-2-6], [13:0-6-0,0-3-4], [15:0-4-8,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.99	Vert(LL)	0.29	14-15	>999	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.90	Vert(CT)	-0.55	14-15	>571		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.99	Horz(CT)	0.23	10	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS						
	Code IRC2015/TPI2014						Weight: 161 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2 *Except*
T1: 2x4 SP No.2
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2 *Except*
B1: 2x6 SP No.2, B2: 2x4 SP DSS, B4: 2x4 SP No.3
WEBS 2x4 SP No.3
SLIDER Right 2x4 SP No.3 - \$ 1-6-0

BRACING-

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
8-8-5 oc bracing: 14-15.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS.

(lb/size) 10=1042/Mechanical, 2=1118/0-3-8 (min. 0-1-12)
Max Horz 2=228(LC 11)
Max Uplift 10=-111(LC 13), 2=-137(LC 12)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1388/268, 3-4=-1733/289, 4-5=-1043/235, 5-6=-927/267, 6-7=-1183/365, 7-8=-1248/280, 8-9=-1463/261, 9-10=-601/0
BOT CHORD 2-16=-286/1072, 15-16=-131/590, 3-15=-93/1059, 14-15=-194/1425, 13-14=-194/1425, 7-13=-252/166, 10-11=-127/1152
WEBS 4-14=0/447, 4-13=-796/248, 6-13=-282/1044, 11-13=-117/1085, 8-13=-295/185, 3-16=-905/238

NOTES-

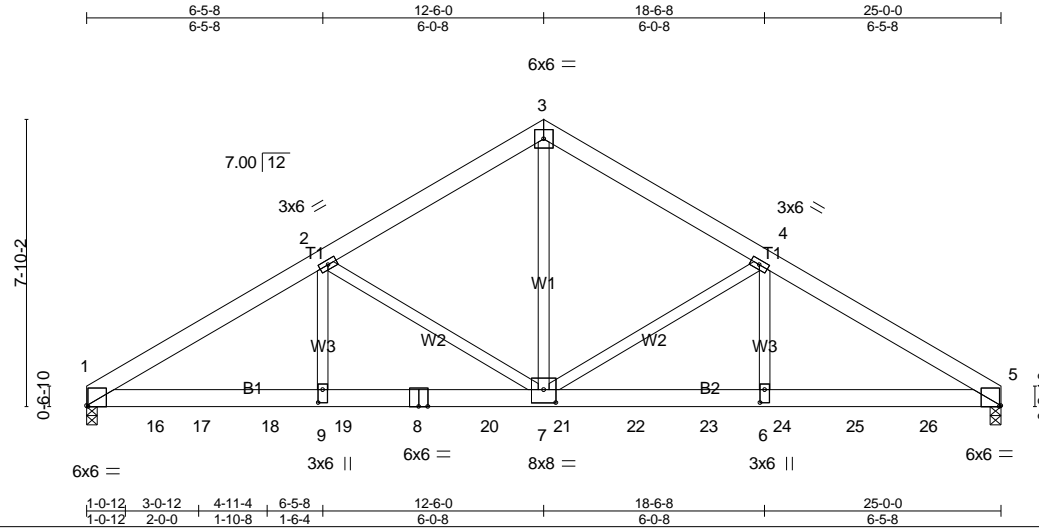
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=111.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job 2100664-2100664A	Truss BGR	Truss Type Common Girder	Qty 1	Ply 3	Jackson Sanford Plan Job Reference (optional)
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84 Components, Dunn, NC 28334

8.500 s Apr 2 2021 MiTek Industries, Inc. Thu Jun 17 09:05:28 2021 Page 1
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Scale = 1:63.0

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.42	Vert(LL)	-0.10	6-7	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.50	Vert(CT)	-0.20	6-7	>999		
BCLL 0.0 *	Lumber DOL 1.15	WB 1.00	Horz(CT)	0.06	5	n/a		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS						
	Code IRC2015/TPI2014						Weight: 503 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP DSS
WEBS 2x4 SP No.3

BRACING-

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

REACTIONS. (lb/size) 1=7389/0-3-8 (min. 0-2-8), 5=6870/0-3-8 (min. 0-2-5)
Max Horz 1=180(LC 34)
Max Uplift1=-879(LC 12), 5=-817(LC 13)

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

TOP CHORD 1-2=-11282/1441, 2-3=-7664/1048, 3-4=-7661/1047, 4-5=-11204/1431
BOT CHORD 1-16=-1203/9746, 16-17=-1203/9746, 17-18=-1203/9746, 9-18=-1203/9746, 9-19=-1203/9746, 8-19=-1203/9746, 8-20=-1203/9746, 7-20=-1203/9746, 7-21=-1155/9668, 21-22=-1155/9668, 22-23=-1155/9668, 6-23=-1155/9668, 6-24=-1155/9668, 24-25=-1155/9668, 25-26=-1155/9668, 5-26=-1155/9668
WEBS 3-7=-902/7259, 4-7=-3714/586, 4-6=-326/3346, 2-7=-3805/596, 2-9=-333/3405

NOTES-

- 3-ply truss to be connected together with 10d (0.120"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-4-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Two H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 5. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Jackson Sanford Plan
2100664-2100664A	BGR	Common Girder	1	3	Job Reference (optional)

84 Components, Dunn, NC 28334

8.500 s Apr 2 2021 MiTek Industries, Inc. Thu Jun 17 09:05:28 2021 Page 2
 ID:HnGGz9AwBgTDle06oN8P5Fz5Rgt-exM?DZ0Otm4Sdxn35nhlkU8v1htysyarqRTOABz5RRb

NOTES-

9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1022 lb down and 130 lb up at 1-0-12, 1022 lb down and 130 lb up at 3-0-12, 1022 lb down and 130 lb up at 4-11-4, 1022 lb down and 131 lb up at 6-11-4, 1022 lb down and 131 lb up at 8-11-4, 1022 lb down and 131 lb up at 10-11-4, 1022 lb down and 131 lb up at 12-11-4, 1022 lb down and 130 lb up at 14-11-4, 1022 lb down and 130 lb up at 16-11-4, 1022 lb down and 130 lb up at 18-11-4, and 1022 lb down and 130 lb up at 20-11-4, and 1022 lb down and 130 lb up at 22-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-3=-60, 3-5=-60, 10-13=-20

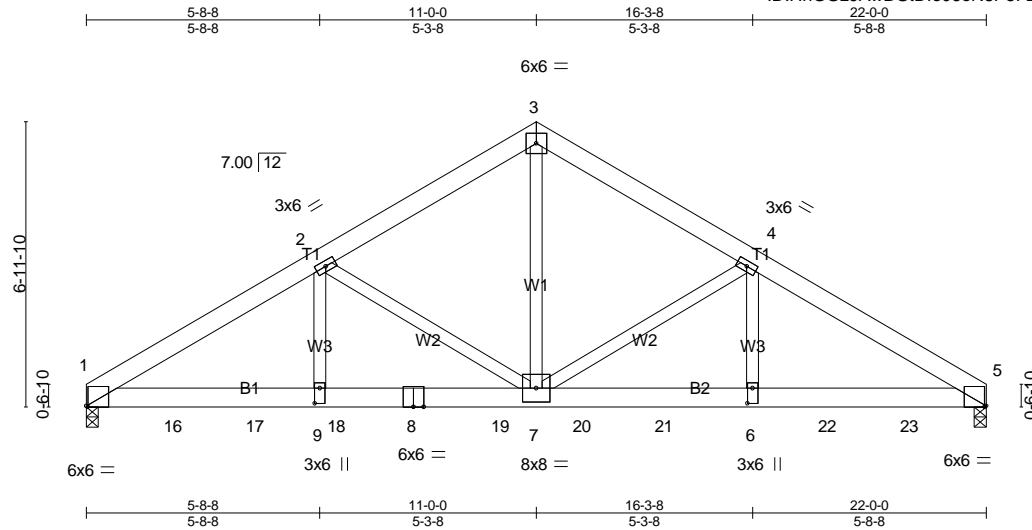
Concentrated Loads (lb)

Vert: 8=-1022(B) 16=-1022(B) 17=-1022(B) 18=-1022(B) 19=-1022(B) 20=-1022(B) 21=-1022(B) 22=-1022(B) 23=-1022(B) 24=-1022(B) 25=-1022(B) 26=-1022(B)

Job 2100664-2100664A	Truss CGR	Truss Type COMMON GIRDER	Qty 1	Ply 3	Jackson Sanford Plan Job Reference (optional)
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84 Components, Dunn, NC 28334

8.500 s Apr 2 2021 MiTek Industries, Inc. Thu Jun 17 09:05:36 2021 Page 1
ID:HnGGz9AwBGtDle06oN8P5Fz5Rgt-PTroVl6P_D5KaOCzSq2ATI_vWukck1ghPpSkz5RRT



Scale = 1:56.3

*** Design Problems *** REVIEW REQUIRED

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

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.29	Vert(LL)	-0.08	7-9	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.88	Vert(CT)	-0.15	7-9	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.80	Horz(CT)	0.06	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS							
									Weight: 442 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(lb/size) 1=5548/0-3-8 (min. 0-2-14), 5=5561/0-3-8 (min. 0-2-15)
Max Horz 1=159(LC 34)
Max Uplift1=-858(LC 12), 5=-961(LC 13)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-9037/1501, 2-3=-6167/1129, 3-4=-6168/1129, 4-5=-8966/1624
BOT CHORD 1-16=-1259/7799, 16-17=-1259/7799, 9-17=-1259/7799, 9-18=-1259/7799, 8-18=-1259/7799, 8-19=-1259/7799, 7-19=-1259/7799,
7-20=-1335/7742, 20-21=-1335/7742, 6-21=-1335/7742, 6-22=-1335/7742, 22-23=-1335/7742, 5-23=-1335/7742
WEBS 3-7=-998/5786, 4-7=-2952/682, 4-6=-453/2629, 2-7=-3019/550, 2-9=-327/2711

NOTES-

- 3-ply truss to be connected together with 10d (0.120"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-5-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BC DL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Jackson Sanford Plan
2100664-2100664A	CGR	COMMON GIRDER	1	3	Job Reference (optional)

84 Components, Dunn, NC 28334

8.500 s Apr 2 2021 MiTek Industries, Inc. Thu Jun 17 09:05:36 2021 Page 2
ID:HnGGz9AwBGtDle06oN8P5Fz5Rgt-PTr0vI6P_D5KaAOcZSq2ATI_vWukck1ghPpSkz5RRRT

NOTES-

- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Two H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 5. This connection is for uplift only and does not consider lateral forces.
- 8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 947 lb down and 150 lb up at 2-0-12, 947 lb down and 150 lb up at 4-0-12, 947 lb down and 150 lb up at 6-0-12, 947 lb down and 150 lb up at 8-0-12, 947 lb down and 150 lb up at 10-0-12, 923 lb down and 190 lb up at 12-0-12, 923 lb down and 190 lb up at 14-0-12, 923 lb down and 190 lb up at 16-0-12, and 923 lb down and 190 lb up at 18-0-12, and 923 lb down and 190 lb up at 20-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

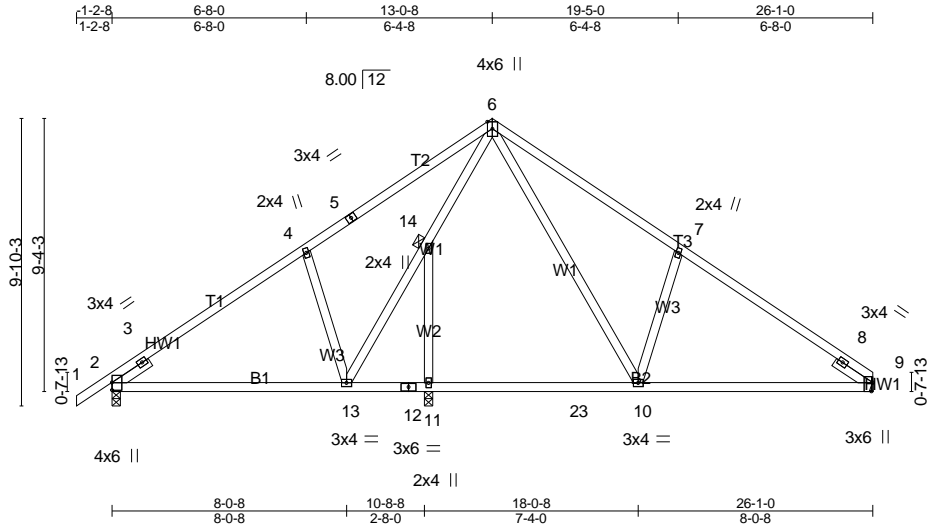
LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 1-3=-60, 3-5=-60, 10-13=-20
 - Concentrated Loads (lb)
 - Vert: 8=-947(B) 6=-923(B) 16=-947(B) 17=-947(B) 18=-947(B) 19=-947(B) 20=-923(B) 21=-923(B) 22=-923(B) 23=-923(B)

Job 2100664-2100664A	Truss A	Truss Type Common	Qty 5	Ply 1	Jackson Sanford Plan Job Reference (optional)
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84 Components, Dunn, NC 28334

8.500 s Apr 2 2021 MiTek Industries, Inc. Thu Jun 17 09:04:59 2021 Page 1
ID:HnGGz9AwBgTDle06oN8P5Fz5Rgt-_M618ffCisRaeU3VuBfy2NRwz_z2ZzAa9QyMfNz5RS2



Scale = 1:79.0

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

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.53	Vert(LL) -0.11 10-11 >999 240	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.57	Vert(CT) -0.20 13-21 >661 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.50	Horz(CT) 0.03 9 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS			
				Weight: 144 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
 WEBS 2x4 SP No.3
 SLIDER Left 2x4 SP No.3 -\$ 1-6-0, Right 2x4 SP No.3 -\$ 1-6-0

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-5-15 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 JOINTS 1 Brace at Jt(s): 14

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 9=967/Mechanical, 2=1013/0-3-8 (min. 0-1-9), 11=179/0-3-8 (min. 0-1-8)
 Max Horz 2=228(LC 11)
 Max Uplift 9=130(LC 13), 2=163(LC 12)
 Max Grav 9=967(LC 1), 2=1013(LC 1), 11=319(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-700/0, 3-4=-1242/310, 4-5=-1160/384, 5-6=-1098/422, 6-7=-1225/410, 7-8=-1308/296, 8-9=-689/0
 BOT CHORD 2-13=-224/991, 12-13=-41/656, 11-12=-41/656, 11-23=-41/656, 10-23=-41/656, 9-10=-148/1024
 WEBS 4-13=-398/266, 13-14=-223/527, 6-14=-219/499, 6-10=-198/662, 7-10=-390/270

NOTES-

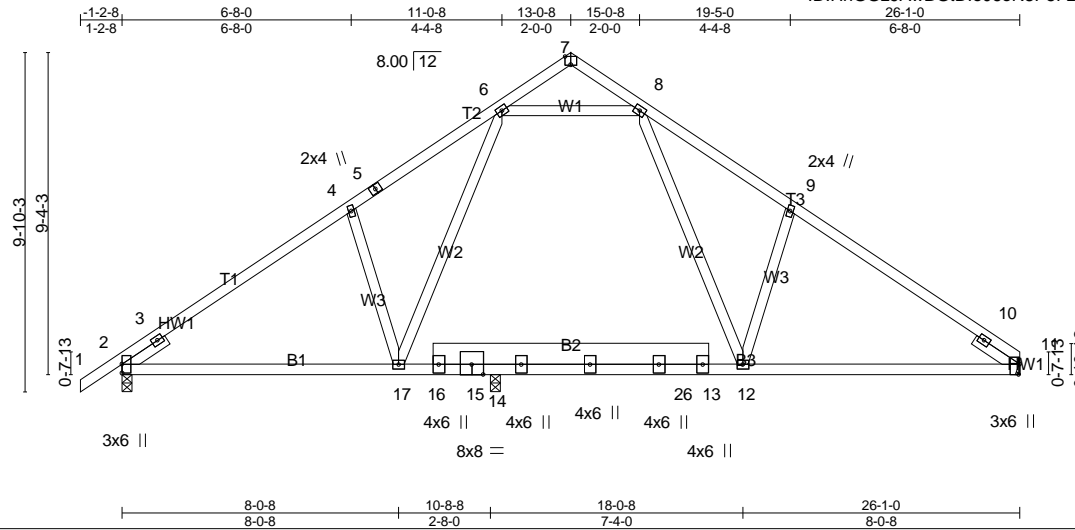
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=130.
- 7) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- 8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job 2100664-2100664A	Truss A1	Truss Type ROOF TRUSS	Qty 5	Ply 1	Jackson Sanford Plan Job Reference (optional)
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84 Components, Dunn, NC 28334

8.500 s Apr 2 2021 MiTek Industries, Inc. Thu Jun 17 09:05:01 2021 Page 1
ID:HnGGz9AwBGtDle06oN8P5Fz5Rgt-xkEnZKhSEThHuoDt0ciQ7oWGwoej1vltDkRSkGz5RS0



Scale = 1:66.9

Plate Offsets (X,Y)-- [2:0-3-2,0-0-1], [7:0-2-0,Edge], [11:0-3-10,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.54	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.56	Vert(LL) 0.14 17-24 >927 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.27	Vert(CT) -0.24 12-20 >754 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.02 2 n/a n/a		
	Code IRC2015/TPI2014			Weight: 161 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2 *Except*
 B2: 2x8 SP No.2
 WEBS 2x4 SP No.3
 SLIDER Left 2x4 SP No.3 -\$ 1-6-0, Right 2x4 SP No.3 -\$ 1-6-0

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-8-4 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 11=943/Mechanical, 2=978/0-3-8 (min. 0-1-9), 14=238/0-3-8 (min. 0-1-8)
 Max Horz 2=228(LC 11)
 Max Uplift 11=170(LC 13), 2=-144(LC 13), 14=-113(LC 9)
 Max Grav 11=962(LC 21), 2=978(LC 1), 14=478(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-641/0, 3-4=-1193/294, 4-5=-1079/341, 5-6=-1071/367, 8-9=-1238/370, 9-10=-1280/276, 10-11=-724/0
 BOT CHORD 2-17=-128/913, 16-17=-29/725, 15-16=-29/725, 14-15=-33/733, 14-26=-29/727, 13-26=-30/724, 12-13=-29/725, 11-12=-127/989
 WEBS 4-17=-350/262, 6-17=-114/390, 8-12=-187/612, 9-12=-386/249, 6-8=-747/308

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are 3x4 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=170.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 14. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Jackson Sanford Plan
2100664-2100664A	A1	ROOF TRUSS	5	1	Job Reference (optional)

84 Components, Dunn, NC 28334

8.500 s Apr 2 2021 MiTek Industries, Inc. Thu Jun 17 09:05:01 2021 Page 2
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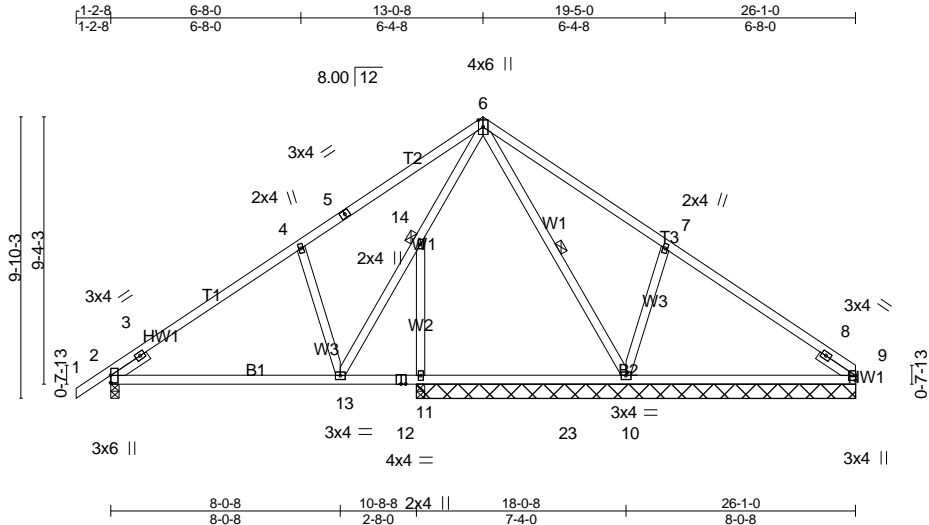
LOAD CASE(S) Standard

Job 2100664-2100664A	Truss A1A	Truss Type Common Structural Gable	Qty 1	Ply 1	Jackson Sanford Plan Job Reference (optional)
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84 Components, Dunn, NC 28334

8.500 s Apr 2 2021 MiTek Industries, Inc. Thu Jun 17 09:05:03 2021 Page 1

ID:HnGGz9AwBGtDle06oN8P5Fz5Rgt-t7MY_Oiil4x?76NG71kuDDcbxcKeVo_A42wZo8z5RS_



Scale = 1:80.7

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

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.57	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.53	Vert(LL) -0.11 10-11 >792 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.32	Vert(CT) -0.18 13-21 >706 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.02 15 n/a n/a		
	Code IRC2015/TPI2014			Weight: 144 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
 WEBS 2x4 SP No.3
 SLIDER Left 2x4 SP No.3 -\$ 1-6-0, Right 2x4 SP No.3 -\$ 1-6-0

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-6-14 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 6-10
 JOINTS 1 Brace at Jt(s): 14

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS.

All bearings 15-4-8 except (jt=length) 2=0-3-8.
 (lb) - Max Horz 2=228(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 9, 10 except 2=-139(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 11 except 9=455(LC 1), 2=819(LC 1), 10=792(LC 1), 11=273(LC 18), 9=455(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-603/0, 3-4=-924/251, 4-5=-876/325, 5-6=-836/364, 6-7=-482/253, 7-8=-451/137, 8-9=-476/0
 BOT CHORD 2-13=-193/743, 12-13=-13/368, 11-12=-13/368, 11-23=-13/368, 10-23=-13/368, 9-10=-18/325
 WEBS 4-13=-407/267, 13-14=-232/586, 6-14=-231/582, 6-10=-337/124, 7-10=-417/273

NOTES-

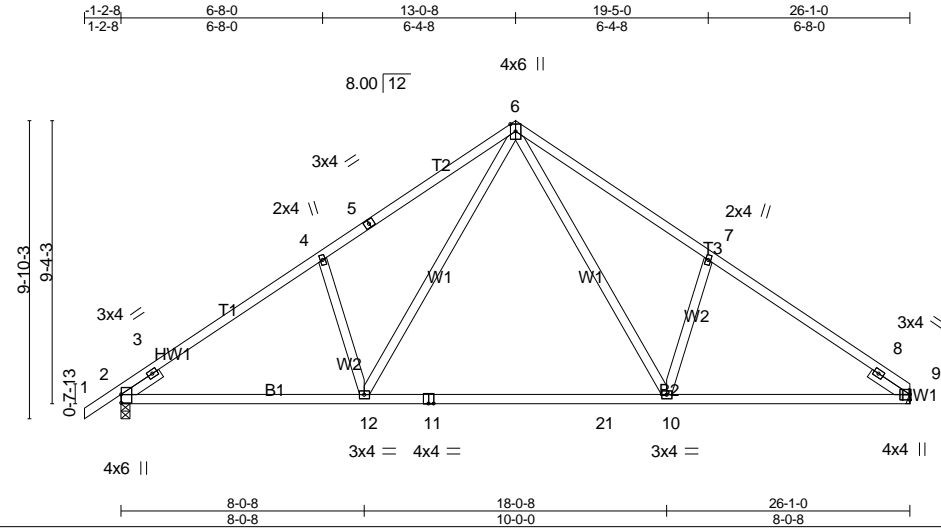
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 9, 2, and 10. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job 2100664-2100664A	Truss A2	Truss Type Common	Qty 7	Ply 1	Jackson Sanford Plan Job Reference (optional)
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84 Components, Dunn, NC 28334

8.500 s Apr 2 2021 MiTek Industries, Inc. Thu Jun 17 09:05:04 2021 Page 1
ID:HnGGz9AwBgTDle06oN8P5Fz5Rgt-LJvwBMjKW03sIFyShkF7IQ8mX?aZEPFJJif7Jaz5RRz



Scale = 1:76.2

Plate Offsets (X,Y)-- [2:0-3-6,0-0-1]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.52	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.93	Vert(LL) -0.44 10-12 >711 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.38	Vert(CT) -0.65 10-12 >483 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.04 9 n/a n/a		
	Code IRC2015/TPI2014			Weight: 136 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2 *Except*
 B2: 2x4 SP No.1
 WEBS 2x4 SP No.3
 SLIDER Left 2x4 SP No.3 -\$ 1-6-0, Right 2x4 SP No.3 -\$ 1-6-0

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-1-9 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 9=1042/Mechanical, 2=1118/0-3-8 (min. 0-1-12)

Max Horz 2=228(LC 11)
 Max Uplift 9=110(LC 13), 2=137(LC 12)
 Max Grav 9=1044(LC 20), 2=1118(LC 1)

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

TOP CHORD 2-3=-628/0, 3-4=-1463/262, 4-5=-1415/338, 5-6=-1319/376, 6-7=-1425/378, 7-8=-1472/263, 8-9=-641/0
 BOT CHORD 2-12=-183/1294, 11-12=-18/834, 11-21=-18/834, 10-21=-18/834, 9-10=-121/1148
 WEBS 4-12=-375/271, 6-12=-180/733, 6-10=-182/747, 7-10=-374/273

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=110.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

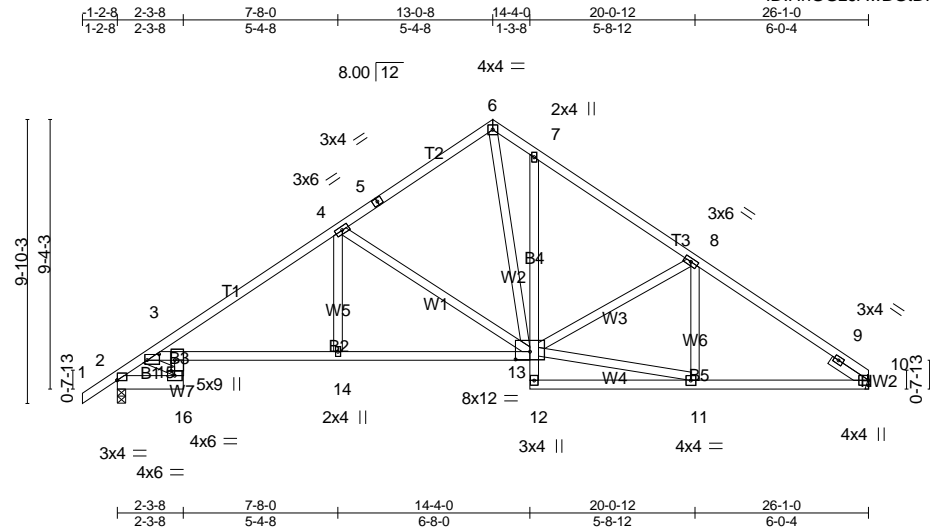
LOAD CASE(S) Standard

Job 2100664-2100664A	Truss A3	Truss Type Roof Special	Qty 4	Ply 1	Jackson Sanford Plan Job Reference (optional)
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84 Components, Dunn, NC 28334

8.500 s Apr 2 2021 MiTek Industries, Inc. Thu Jun 17 09:05:06 2021 Page 1

ID:HnGGz9AwBGtDle06oN8P5Fz5Rgt-Hi1gc2lb2?Ja_Z6rp9lbqrE?fpHci?Fcm08DOTz5RRx



Scale = 1:80.0

Plate Offsets (X,Y)-- [2:0-0-0,0-0-1], [3:0-4-14,0-2-6], [13:0-6-0,0-3-4], [15:0-4-8,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.99	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.90	Vert(LL) 0.29 14-15 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.99	Vert(CT) -0.55 14-15 >571 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.23 10 n/a n/a		
	Code IRC2015/TPI2014			Weight: 161 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2 *Except*
T1: 2x4 SP No.2
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2 *Except*
B1: 2x6 SP No.2, B2: 2x4 SP DSS, B4: 2x4 SP No.3
WEBS 2x4 SP No.3
SLIDER Right 2x4 SP No.3 - \$ 1-6-0

BRACING-

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
8-8-5 oc bracing: 14-15.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 10=1042/Mechanical, 2=1118/0-3-8 (min. 0-1-12)
Max Horz 2=228(LC 11)
Max Uplift 10=-111(LC 13), 2=-137(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1388/268, 3-4=-1733/289, 4-5=-1043/235, 5-6=-927/267, 6-7=-1183/365, 7-8=-1248/280, 8-9=-1463/261, 9-10=-601/0
BOT CHORD 2-16=-286/1072, 15-16=-131/590, 3-15=-93/1059, 14-15=-194/1425, 13-14=-194/1425, 7-13=-252/166, 10-11=-127/1152
WEBS 4-14=0/447, 4-13=-796/248, 6-13=-282/1044, 11-13=-117/1085, 8-13=-295/185, 3-16=-905/238

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=111.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

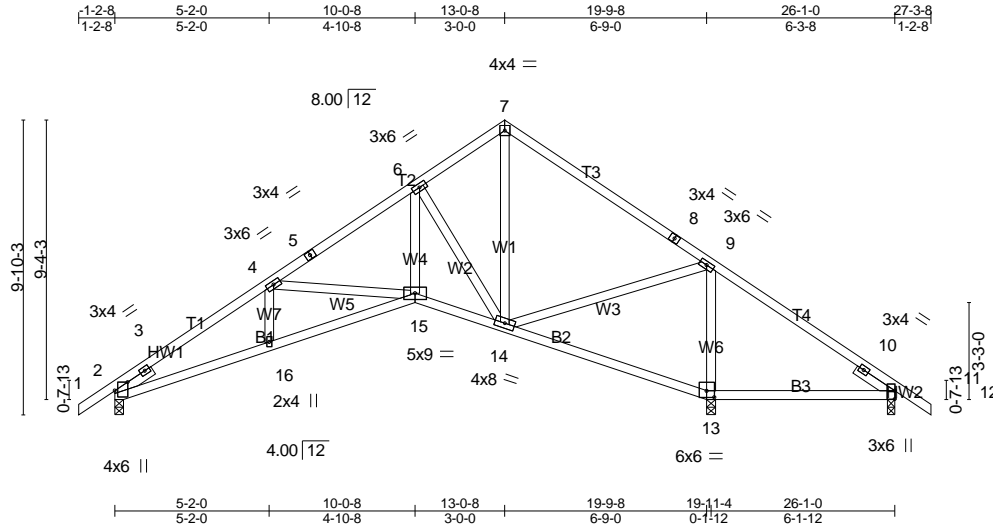
LOAD CASE(S) Standard

Job 2100664-2100664A	Truss A4	Truss Type Roof Special	Qty 5	Ply 1	Jackson Sanford Plan Job Reference (optional)
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84 Components, Dunn, NC 28334

8.500 s Apr 2 2021 MiTek Industries, Inc. Thu Jun 17 09:05:08 2021 Page 1

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Scale = 1:77.0

Plate Offsets (X,Y)-- [2:0-3-7,Edge], [11:0-3-6,0-0-1], [13:0-3-0,0-2-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.75	Vert(LL)	-0.07	15-16	>999	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.56	Vert(CT)	-0.16	15-16	>999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.55	Horz(CT)	0.10	13	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS						
	Code IRC2015/TPI2014						Weight: 146 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
 WEBS 2x4 SP No.3
 SLIDER Left 2x4 SP No.3 -\$ 1-6-0, Right 2x4 SP No.3 -\$ 1-6-0

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-2-12 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 2=766/0-3-8 (min. 0-1-8), 13=1450/0-3-8 (min. 0-2-4), 11=15/0-3-0 (min. 0-1-8)
 Max Horz 2=235(LC 11)
 Max Uplift 2=-104(LC 12), 13=-134(LC 12), 11=-164(LC 23)
 Max Grav 2=766(LC 1), 13=1450(LC 1), 11=179(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-519/34, 3-4=-1492/244, 4-5=-1031/137, 5-6=-954/167, 6-7=-506/194, 7-8=-455/162, 8-9=-548/120, 9-10=-76/613
 BOT CHORD 2-16=-274/1371, 15-16=-275/1383, 14-15=-54/926, 13-14=-474/122, 11-13=-395/97
 WEBS 4-15=-461/210, 6-15=-88/837, 6-14=-929/221, 7-14=-67/301, 9-14=-29/849, 9-13=-1165/195

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 13, and 11. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

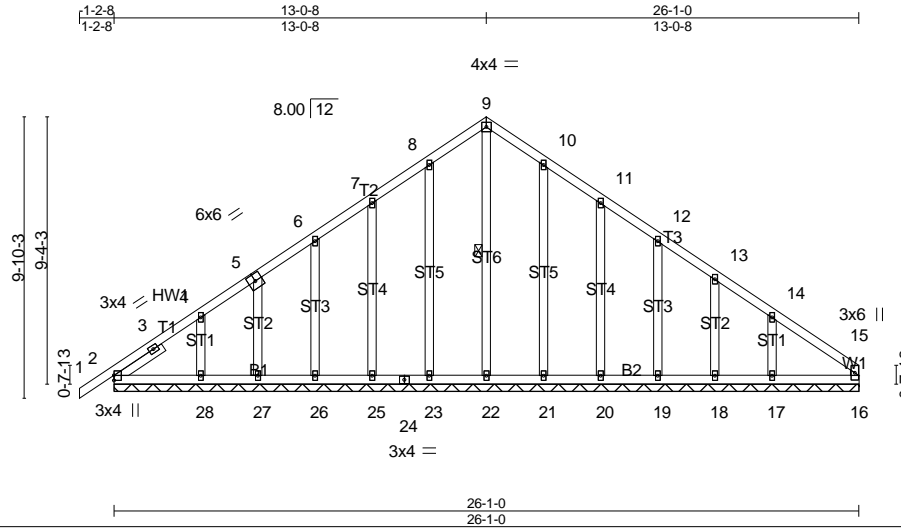
LOAD CASE(S) Standard

Job 2100664-2100664A	Truss AE	Truss Type Common Supported Gable	Qty 2	Ply 1	Jackson Sanford Plan Job Reference (optional)
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84 Components, Dunn, NC 28334

8.500 s Apr 2 2021 MiTek Industries, Inc. Thu Jun 17 09:05:13 2021 Page 1

ID:HnGGz9AwBGtDle06oN8P5Fz5Rgt-a2yK4Rq_P9CaKe8Bj7wEdK0Qger3rN3eNclL58Zz5RRq



Scale = 1:80.7

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

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.11	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.08	Vert(LL) -0.00 1 n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.16	Vert(CT) 0.00 1 n/r 90		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 16 n/a n/a		
	Code IRC2015/TPI2014			Weight: 176 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
 WEBS 2x4 SP No.3
 OTHERS 2x4 SP No.3
 SLIDER Left 2x4 SP No.3 -\$ 2-0-0

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 9-22

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS.

All bearings 26-1-0.
 (lb) - Max Horz 2=230(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 22, 23, 25, 26, 27, 21, 20, 19, 18 except 28=111(LC 12), 17=-126(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 16, 2, 22, 23, 25, 26, 27, 28, 21, 20, 19, 18 except 17=259(LC 20)

FORCES.

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

NOTES-

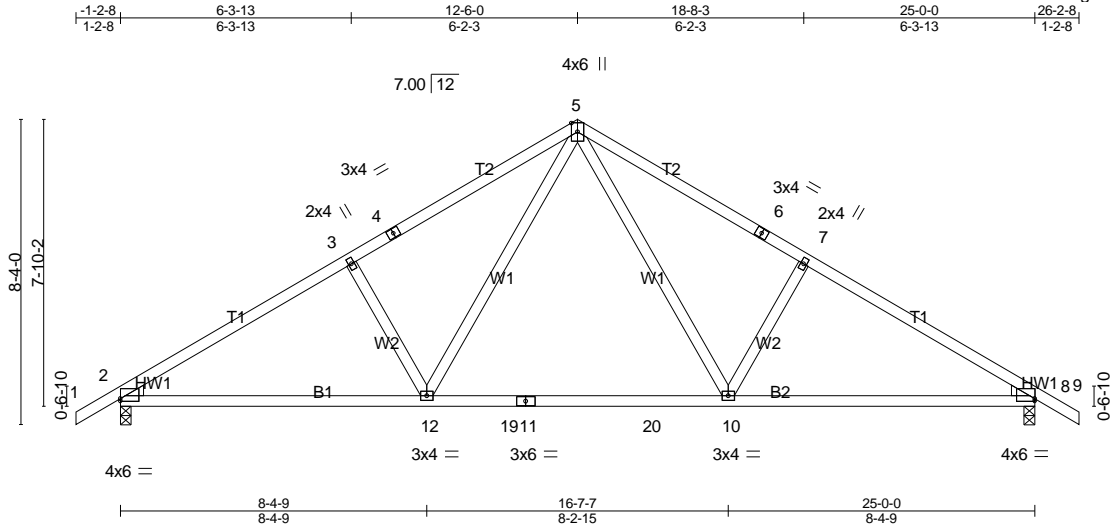
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 22, 23, 25, 26, 27, 28, 21, 20, 19, 18, and 17. This connection is for uplift only and does not consider lateral forces.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job 2100664-2100664A	Truss B	Truss Type Common	Qty 3	Ply 1	Jackson Sanford Plan Job Reference (optional)
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84 Components, Dunn, NC 28334

8.500 s Apr 2 2021 MiTek Industries, Inc. Thu Jun 17 09:05:19 2021 Page 1
ID:HnGGz9AwBGtDle06oN8P5Fz5Rgt-PCJbKUvk_?yk2ZbL3O0esbGLA2kaF3RWmYoPLDz5RRk



Scale = 1:63.0

Plate Offsets (X,Y)-- [2:0-0-0,0-0-13], [8:0-0-0,0-0-13]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.49	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.71	Vert(LL) -0.22 10-12 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.23	Vert(CT) -0.33 10-12 >916 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.04 8 n/a n/a		
	Code IRC2015/TPI2014			Weight: 123 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
 WEBS 2x4 SP No.3
 WEDGE
 Left: 2x4 SP No.3 , Right: 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 4-4-14 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 2=1073/0-3-8 (min. 0-1-11), 8=1072/0-3-8 (min. 0-1-11)
 Max Horz 2=198(LC 11)
 Max Uplift 2=-138(LC 12), 8=-138(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1529/277, 3-4=-1361/286, 4-5=-1275/320, 5-6=-1275/320, 6-7=-1361/286, 7-8=-1529/277
 BOT CHORD 2-12=-188/1360, 12-19=-17/885, 11-19=-17/885, 11-20=-17/885, 10-20=-17/885, 8-10=-135/1242
 WEBS 5-10=-122/628, 7-10=-360/233, 5-12=-122/628, 3-12=-360/233

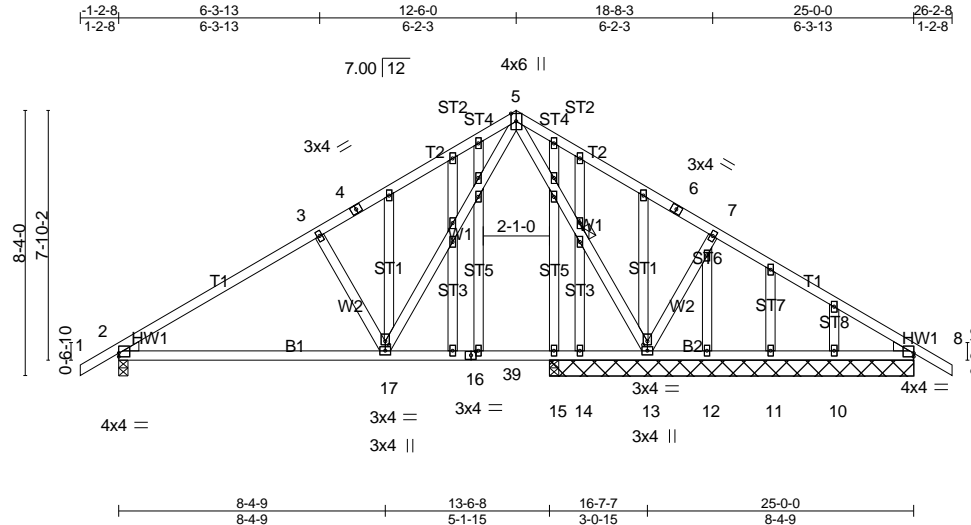
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - One MTS12 Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 8. This connection is for uplift only and does not consider lateral forces.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job 2100664-2100664A	Truss BE	Truss Type GABLE	Qty 1	Ply 1	Jackson Sanford Plan Job Reference (optional)
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84 Components, Dunn, NC 28334

8.500 s Apr 2 2021 MiTek Industries, Inc. Thu Jun 17 09:05:21 2021 Page 1
ID:HnGGz9AwBgtDle06oN8P5Fz5Rgt-LbRLIAw?WcCSHtjBp36x0LhMsTSjySpDrHWQ5z5RRi



Scale = 1:72.5

Plate Offsets (X,Y)-- [2:0-0-0,0-1-5], [8:0-0-0,0-1-5], [13:0-1-4,0-1-8], [16:0-1-12,0-1-8], [17:0-1-4,0-1-8]										
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.51	Vert(LL)	-0.10	17-35	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.55	Vert(CT)	-0.22	17-35	>748	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.26	Horz(CT)	0.01	36	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS							
									Weight: 186 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
 WEBS 2x4 SP No.3
 OTHERS 2x4 SP No.3
 WEDGE
 Left: 2x4 SP No.3 , Right: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-10-7 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 5-13

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS.

All bearings 11-5-8 except (jt=length) 2=0-3-8.
 (lb) - Max Horz 2=198(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 10, 8 except 2=-115(LC 12), 13=-160(LC 12), 14=-101(LC 18)
 Max Grav All reactions 250 lb or less at joint(s) 15, 14, 12, 11, 10 except 2=710(LC 1), 13=902(LC 1), 15=300(LC 18), 8=310(LC 24), 8=283(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-848/186, 3-4=-677/195, 4-5=-641/229, 7-8=-250/85
 BOT CHORD 2-17=-154/754, 17-39=-15/286, 16-39=-15/286, 15-16=-15/286, 14-15=-15/286, 13-14=-15/286
 WEBS 5-13=-639/115, 7-13=-380/237, 5-17=-135/586, 3-17=-387/234

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Jackson Sanford Plan
2100664-2100664A	BE	GABLE	1	1	Job Reference (optional)

84 Components, Dunn, NC 28334

8.500 s Apr 2 2021 MiTek Industries, Inc. Thu Jun 17 09:05:21 2021 Page 2
 ID:HnGGz9AwBGtDle06oN8P5Fz5Rgt-LbRLIAw?WcCSHtjBp36x0LhMsTSjySpDrHWQ5z5RRi

NOTES-

- 8) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 13, 14, 10, and 8. This connection is for uplift only and does not consider lateral forces.
- 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

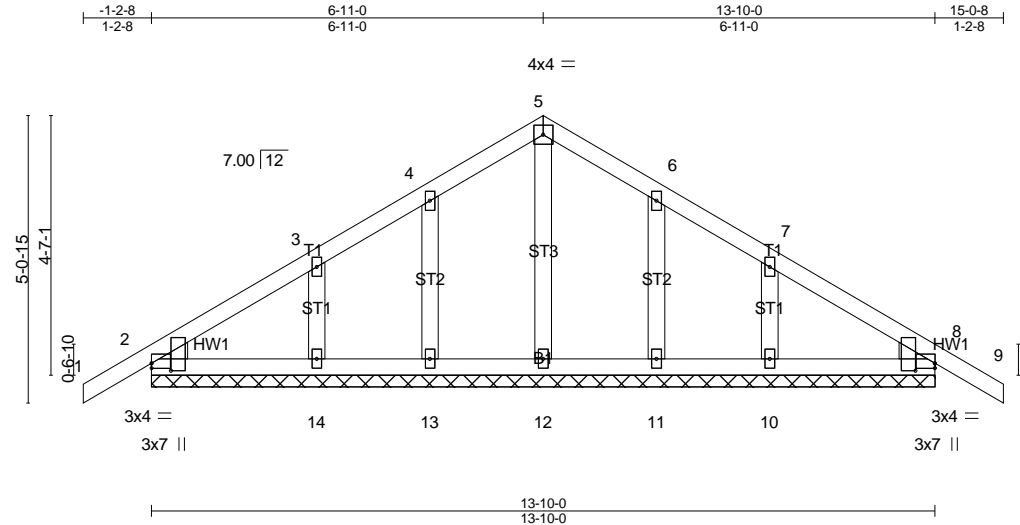
LOAD CASE(S) Standard

Job 2100664-2100664A	Truss BEE	Truss Type Common Supported Gable	Qty 1	Ply 1	Jackson Sanford Plan Job Reference (optional)
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84 Components, Dunn, NC 28334

8.500 s Apr 2 2021 MiTek Industries, Inc. Thu Jun 17 09:05:23 2021 Page 1

ID:HnGGz9AwBgTDle06oN8P5Fz5Rgt-HzZ6AsyF2DSAXAv6IE5a1RR7KgGZBwR6g9mdU_z5RRg



Scale = 1:40.7

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

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.10	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.07	Vert(LL) -0.00 9 n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.04	Vert(CT) -0.00 9 n/r 90		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 8 n/a n/a		
	Code IRC2015/TPI2014			Weight: 70 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
 OTHERS 2x4 SP No.3
 WEDGE
 Left: 2x4 SP No.3 , Right: 2x4 SP No.3

BRACING-

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS.

All bearings 13-10-0.
 (lb) - Max Horz 2=-117(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 8, 13, 14, 11, 10
 Max Grav All reactions 250 lb or less at joint(s) 2, 8, 12, 13, 14, 11, 10

FORCES.

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

NOTES-

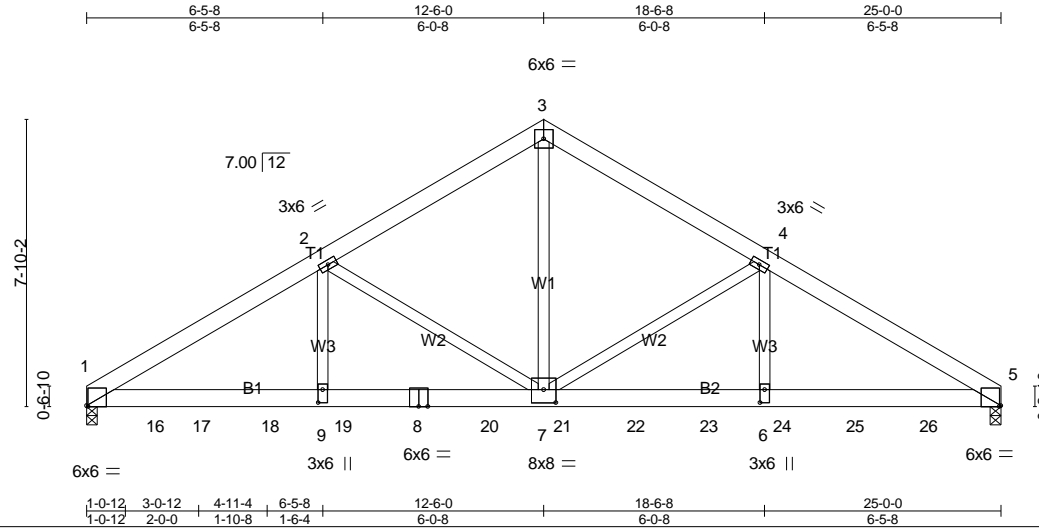
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 8, 13, 14, 11, and 10. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job 2100664-2100664A	Truss BGR	Truss Type Common Girder	Qty 1	Ply 3	Jackson Sanford Plan Job Reference (optional)
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84 Components, Dunn, NC 28334

8.500 s Apr 2 2021 MiTek Industries, Inc. Thu Jun 17 09:05:28 2021 Page 1
ID:HnGGz9AwBgTDie06oN8P5Fz5Rgt-exM?DZ0Otm4Sdxn35nhlkU8v1htysyarqRTOABz5RRb



Scale = 1:63.0

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.42	Vert(LL)	-0.10	6-7	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.50	Vert(CT)	-0.20	6-7	>999		
BCLL 0.0 *	Lumber DOL 1.15	WB 1.00	Horz(CT)	0.06	5	n/a		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS						
	Code IRC2015/TPI2014						Weight: 503 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP DSS
WEBS 2x4 SP No.3

BRACING-

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

REACTIONS. (lb/size) 1=7389/0-3-8 (min. 0-2-8), 5=6870/0-3-8 (min. 0-2-5)
Max Horz 1=180(LC 34)
Max Uplift1=-879(LC 12), 5=-817(LC 13)

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

TOP CHORD 1-2=-11282/1441, 2-3=-7664/1048, 3-4=-7661/1047, 4-5=-11204/1431
BOT CHORD 1-16=-1203/9746, 16-17=-1203/9746, 17-18=-1203/9746, 9-18=-1203/9746, 9-19=-1203/9746, 8-19=-1203/9746, 8-20=-1203/9746, 7-20=-1203/9746, 7-21=-1155/9668, 21-22=-1155/9668, 22-23=-1155/9668, 6-23=-1155/9668, 6-24=-1155/9668, 24-25=-1155/9668, 25-26=-1155/9668, 5-26=-1155/9668
WEBS 3-7=-902/7259, 4-7=-3714/586, 4-6=-326/3346, 2-7=-3805/596, 2-9=-333/3405

NOTES-

- 3-ply truss to be connected together with 10d (0.120"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-4-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Two H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 5. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Jackson Sanford Plan
2100664-2100664A	BGR	Common Girder	1	3	Job Reference (optional)

84 Components, Dunn, NC 28334

8.500 s Apr 2 2021 MiTek Industries, Inc. Thu Jun 17 09:05:28 2021 Page 2
 ID:HnGGz9AwBGtDle06oN8P5Fz5Rgt-exM?DZ0Otm4Sdxn35nhlkU8v1htysyarqRTOABz5RRb

NOTES-

9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1022 lb down and 130 lb up at 1-0-12, 1022 lb down and 130 lb up at 3-0-12, 1022 lb down and 130 lb up at 4-11-4, 1022 lb down and 131 lb up at 6-11-4, 1022 lb down and 131 lb up at 8-11-4, 1022 lb down and 131 lb up at 10-11-4, 1022 lb down and 131 lb up at 12-11-4, 1022 lb down and 130 lb up at 14-11-4, 1022 lb down and 130 lb up at 16-11-4, 1022 lb down and 130 lb up at 18-11-4, and 1022 lb down and 130 lb up at 20-11-4, and 1022 lb down and 130 lb up at 22-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-3=-60, 3-5=-60, 10-13=-20

Concentrated Loads (lb)

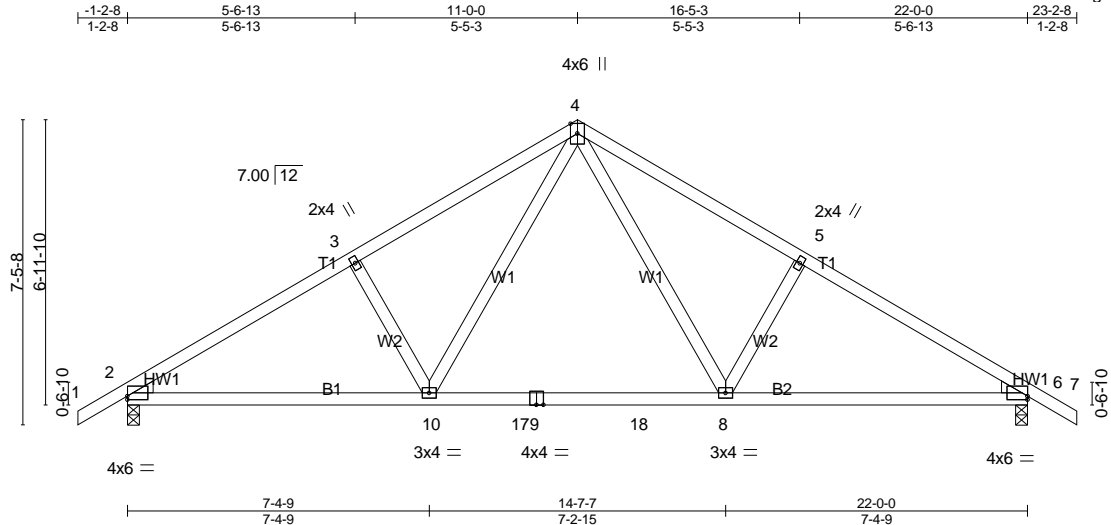
Vert: 8=-1022(B) 16=-1022(B) 17=-1022(B) 18=-1022(B) 19=-1022(B) 20=-1022(B) 21=-1022(B) 22=-1022(B) 23=-1022(B) 24=-1022(B) 25=-1022(B) 26=-1022(B)

Job	Truss	Truss Type	Qty	Ply	Jackson Sanford Plan
2100664-2100664A	C	Common	4	1	Job Reference (optional)

84 Components, Dunn, NC 28334

8.500 s Apr 2 2021 MiTek Industries, Inc. Thu Jun 17 09:05:30 2021 Page 1

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Scale = 1:56.3

Plate Offsets (X,Y)-- [2:0-0-0,0-1-1], [6:Edge,0-1-1]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.36	Vert(LL)	-0.13	8-10	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.54	Vert(CT)	-0.21	8-10	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.19	Horz(CT)	0.03	6	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS							
									Weight: 109 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
 WEBS 2x4 SP No.3
 WEDGE
 Left: 2x4 SP No.3 , Right: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-10-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 2=952/0-3-8 (min. 0-1-8), 6=952/0-3-8 (min. 0-1-8)

Max Horz 2=-176(LC 10)
 Max Uplift 2=-125(LC 12), 6=-125(LC 13)

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

TOP CHORD 2-3=-1331/241, 3-4=-1177/279, 4-5=-1177/279, 5-6=-1331/241
 BOT CHORD 2-10=-162/1170, 10-17=-14/765, 9-17=-14/765, 9-18=-14/765, 8-18=-14/765, 6-8=-113/1079
 WEBS 4-8=-106/533, 5-8=-312/204, 4-10=-106/533, 3-10=-311/204

NOTES-

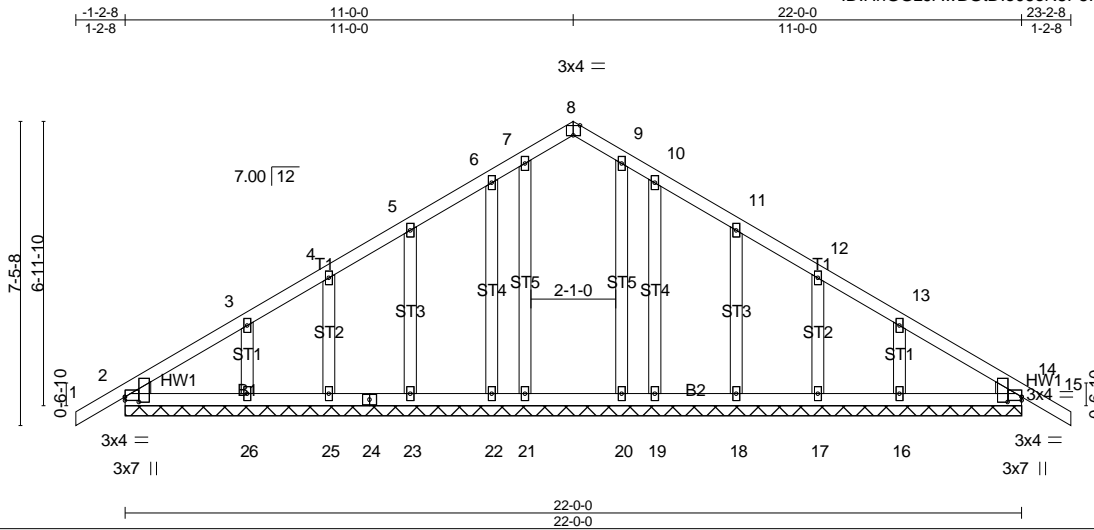
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- One MTS12 Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 6. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job 2100664-2100664A	Truss CE	Truss Type GABLE	Qty 1	Ply 1	Jackson Sanford Plan Job Reference (optional)
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84 Components, Dunn, NC 28334

8.500 s Apr 2 2021 MiTek Industries, Inc. Thu Jun 17 09:05:32 2021 Page 1
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Scale = 1:56.5

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.10	Vert(LL)	-0.00	15	n/r	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.06	Vert(CT)	0.00	14	n/r		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.06	Horz(CT)	0.01	14	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S					Weight: 135 lb	FT = 20%
	Code IRC2015/TPI2014							

LUMBER-

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
 OTHERS 2x4 SP No.3
 WEDGE
 Left: 2x4 SP No.3 , Right: 2x4 SP No.3

BRACING-

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS.

All bearings 22-0-0.
 (lb) - Max Horz 2=-176(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 22, 23, 25, 26, 19, 18, 17, 16
 Max Grav All reactions 250 lb or less at joint(s) 2, 21, 20, 22, 23, 25, 26, 19, 18, 17, 16, 14

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

NOTES-

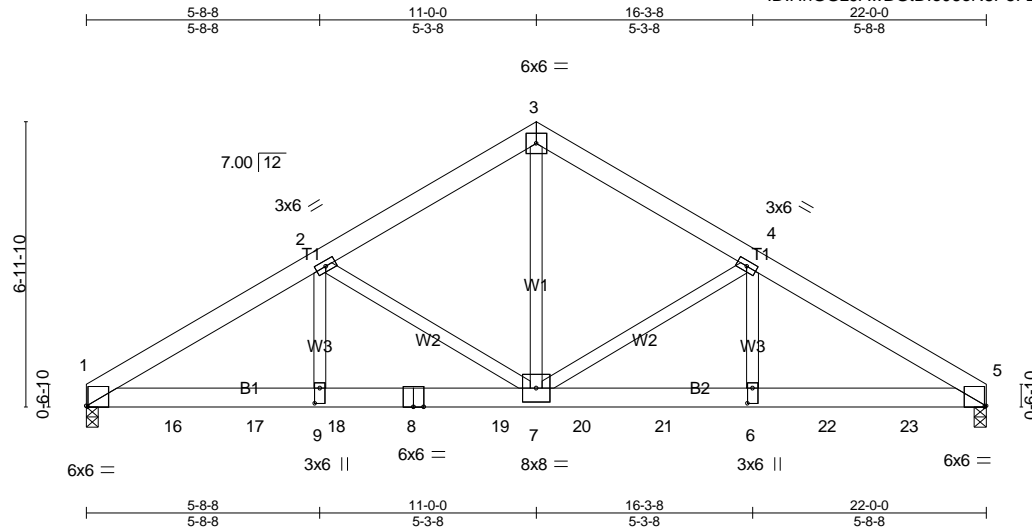
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 22, 23, 25, 26, 19, 18, 17, and 16. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job 2100664-2100664A	Truss CGR	Truss Type COMMON GIRDER	Qty 1	Ply 3	Jackson Sanford Plan Job Reference (optional)
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84 Components, Dunn, NC 28334

8.500 s Apr 2 2021 MiTek Industries, Inc. Thu Jun 17 09:05:36 2021 Page 1
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Scale = 1:56.3

*** Design Problems *** REVIEW REQUIRED

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

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.29	Vert(LL)	-0.08	7-9	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.88	Vert(CT)	-0.15	7-9	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.80	Horz(CT)	0.06	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS							
									Weight: 442 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(lb/size) 1=5548/0-3-8 (min. 0-2-14), 5=5561/0-3-8 (min. 0-2-15)
Max Horz 1=159(LC 34)
Max Uplift1=-858(LC 12), 5=-961(LC 13)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-9037/1501, 2-3=-6167/1129, 3-4=-6168/1129, 4-5=-8966/1624
BOT CHORD 1-16=-1259/7799, 16-17=-1259/7799, 9-17=-1259/7799, 9-18=-1259/7799, 8-18=-1259/7799, 8-19=-1259/7799, 7-19=-1259/7799,
7-20=-1335/7742, 20-21=-1335/7742, 6-21=-1335/7742, 6-22=-1335/7742, 22-23=-1335/7742, 5-23=-1335/7742
WEBS 3-7=-998/5786, 4-7=-2952/682, 4-6=-453/2629, 2-7=-3019/550, 2-9=-327/2711

NOTES-

- 3-ply truss to be connected together with 10d (0.120"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-5-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCCL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Jackson Sanford Plan
2100664-2100664A	CGR	COMMON GIRDER	1	3	Job Reference (optional)

84 Components, Dunn, NC 28334

8.500 s Apr 2 2021 MiTek Industries, Inc. Thu Jun 17 09:05:36 2021 Page 2
ID:HnGGz9AwBGtDle06oN8P5Fz5Rgt-PTr0vI6P_D5KaAOcZSq2ATI_vWukck1ghPpSkz5RRRT

NOTES-

- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Two H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 5. This connection is for uplift only and does not consider lateral forces.
- 8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 947 lb down and 150 lb up at 2-0-12, 947 lb down and 150 lb up at 4-0-12, 947 lb down and 150 lb up at 6-0-12, 947 lb down and 150 lb up at 8-0-12, 947 lb down and 150 lb up at 10-0-12, 923 lb down and 190 lb up at 12-0-12, 923 lb down and 190 lb up at 14-0-12, 923 lb down and 190 lb up at 16-0-12, and 923 lb down and 190 lb up at 18-0-12, and 923 lb down and 190 lb up at 20-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

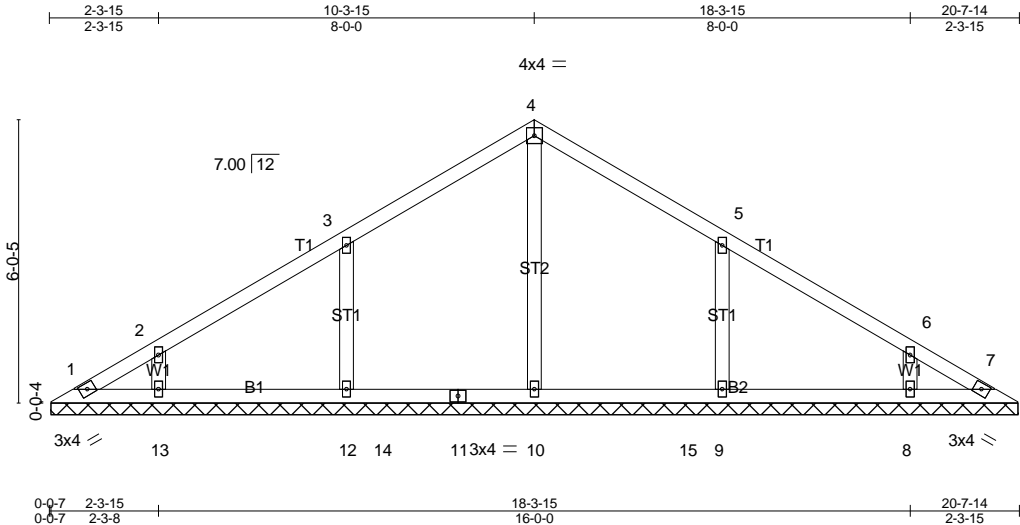
LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 1-3=-60, 3-5=-60, 10-13=-20
 - Concentrated Loads (lb)
 - Vert: 8=-947(B) 6=-923(B) 16=-947(B) 17=-947(B) 18=-947(B) 19=-947(B) 20=-923(B) 21=-923(B) 22=-923(B) 23=-923(B)

Job 2100664-2100664A	Truss V1	Truss Type Valley	Qty 1	Ply 1	Jackson Sanford Plan Job Reference (optional)
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84 Components, Dunn, NC 28334

8.500 s Apr 2 2021 MiTek Industries, Inc. Thu Jun 17 09:05:38 2021 Page 1
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Scale = 1:49.1

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.35	in (loc) l/def L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.31	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.12	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 7 n/a n/a		
	Code IRC2015/TPI2014			Weight: 84 lb	FT = 20%

LUMBER-

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

BRACING-

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS.

All bearings 20-7-0.
 (lb) - Max Horz 1=-141(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 13, 8 except 12=-127(LC 12), 9=-127(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 10=384(LC 19), 12=403(LC 19), 9=403(LC 20), 13=267(LC 19), 8=267(LC 20)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 3-12=-284/177, 5-9=-283/177

NOTES-

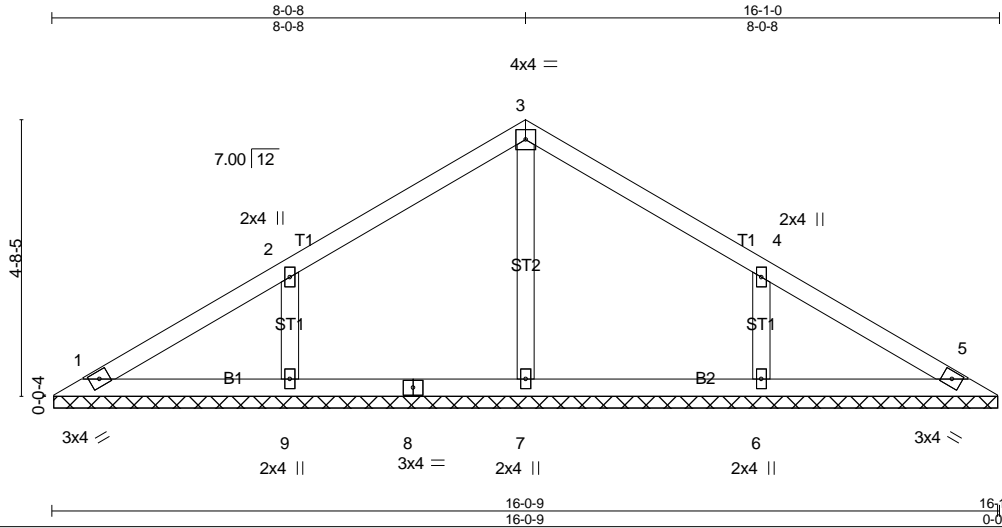
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- One MTS12 Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 7. This connection is for uplift only and does not consider lateral forces.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 12, 9, 13, and 8. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job 2100664-2100664A	Truss V2	Truss Type Valley	Qty 1	Ply 1	Jackson Sanford Plan Job Reference (optional)
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84 Components, Dunn, NC 28334

8.500 s Apr 2 2021 MiTek Industries, Inc. Thu Jun 17 09:05:40 2021 Page 1
ID:HnGGz9AwBGtDle06oN8P5Fz5Rgt-IF5Xlg9w2Sbl3oiNolvZD0ezEW1Xgb2cbJN0bVz5RRP



Scale = 1:39.1

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.34	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.19	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.07	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						Weight: 61 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.3
BOT CHORD 2x4 SP No.3
OTHERS 2x4 SP No.3

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 16-0-2.
(lb) - Max Horz 1=108(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 1 except 9=-129(LC 12), 6=-129(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=261(LC 1), 9=371(LC 19), 6=371(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-9=-282/174, 4-6=-282/174

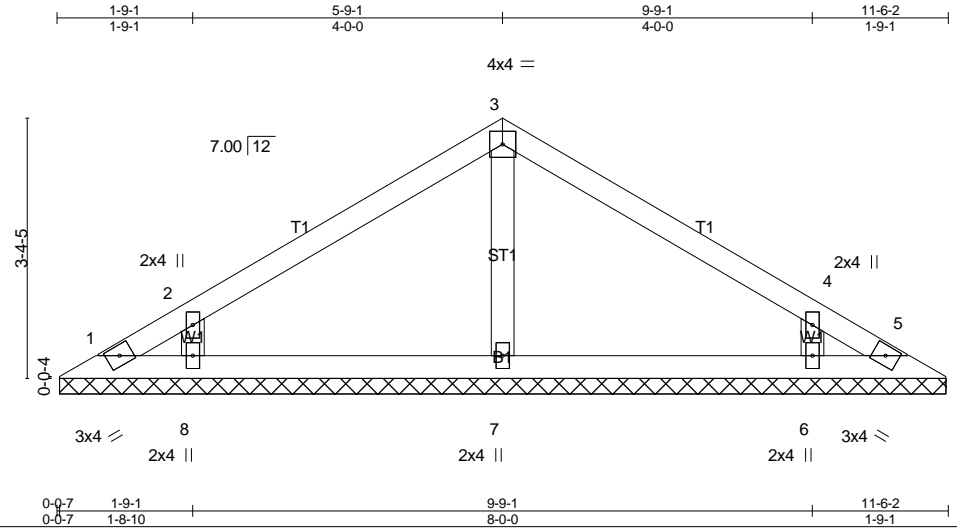
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Gable requires continuous bottom chord bearing.
 - 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - One MTS12 Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1. This connection is for uplift only and does not consider lateral forces.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 9 and 6. This connection is for uplift only and does not consider lateral forces.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job 2100664-2100664A	Truss V3	Truss Type Valley	Qty 1	Ply 1	Jackson Sanford Plan Job Reference (optional)
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84 Components, Dunn, NC 28334

8.500 s Apr 2 2021 MiTek Industries, Inc. Thu Jun 17 09:05:42 2021 Page 1
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Scale = 1:29.8

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.35	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.20	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.05	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 5 n/a n/a		
	Code IRC2015/TPI2014			Weight: 40 lb	FT = 20%

LUMBER-

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

BRACING-

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS.

All bearings 11-5-5.
(lb) - Max Horz 1=-75(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-131(LC 12), 6=-131(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=252(LC 1), 8=341(LC 19), 6=341(LC 20)

FORCES.

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

WEBS 2-8=-275/171, 4-6=-275/171

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- One MTS12 Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 5. This connection is for uplift only and does not consider lateral forces.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 8 and 6. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

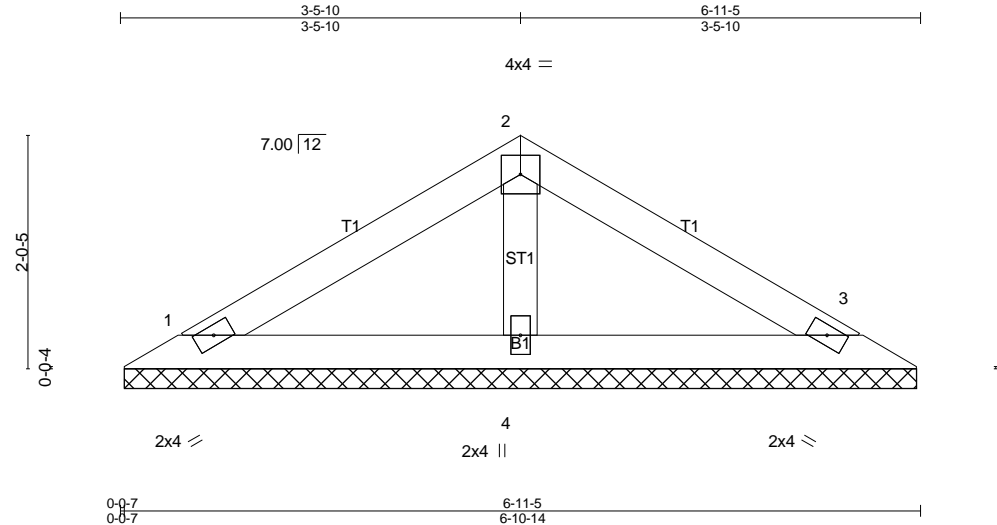
LOAD CASE(S) Standard

Job 2100664-2100664A	Truss V4	Truss Type Valley	Qty 1	Ply 1	Jackson Sanford Plan Job Reference (optional)
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84 Components, Dunn, NC 28334

8.500 s Apr 2 2021 MiTek Industries, Inc. Thu Jun 17 09:05:43 2021 Page 1

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Scale = 1:20.0

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.26	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.15	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.03	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 3 n/a n/a		
	Code IRC2015/TPI2014			Weight: 22 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.3
BOT CHORD 2x4 SP No.3
OTHERS 2x4 SP No.3

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 1=122/6-10-7 (min. 0-1-8), 3=122/6-10-7 (min. 0-1-8), 4=225/6-10-7 (min. 0-1-8)
Max Horz 1=42(LC 11)
Max Uplift1=-28(LC 12), 3=-33(LC 13)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- One MTS12 Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 3. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

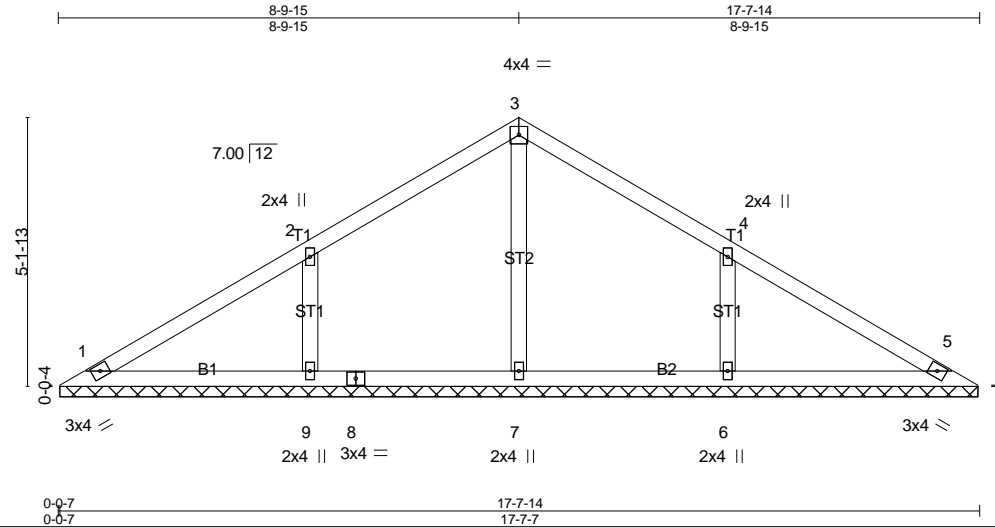
LOAD CASE(S) Standard

Job 2100664-2100664A	Truss V5	Truss Type Valley	Qty 1	Ply 1	Jackson Sanford Plan Job Reference (optional)
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84 Components, Dunn, NC 28334

8.500 s Apr 2 2021 MiTek Industries, Inc. Thu Jun 17 09:05:45 2021 Page 1

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Scale = 1:44.1

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.42	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.25	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.08	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 5 n/a n/a		
	Code IRC2015/TPI2014			Weight: 68 lb	FT = 20%

LUMBER-

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

BRACING-

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS.

All bearings 17-7-0.
 (lb) - Max Horz 1=-120(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 9=-143(LC 12), 6=-143(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 9=417(LC 19), 6=417(LC 20)

FORCES.

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

WEBS

2-9=-313/192, 4-6=-313/191

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- One MTS12 Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 5. This connection is for uplift only and does not consider lateral forces.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 9 and 6. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

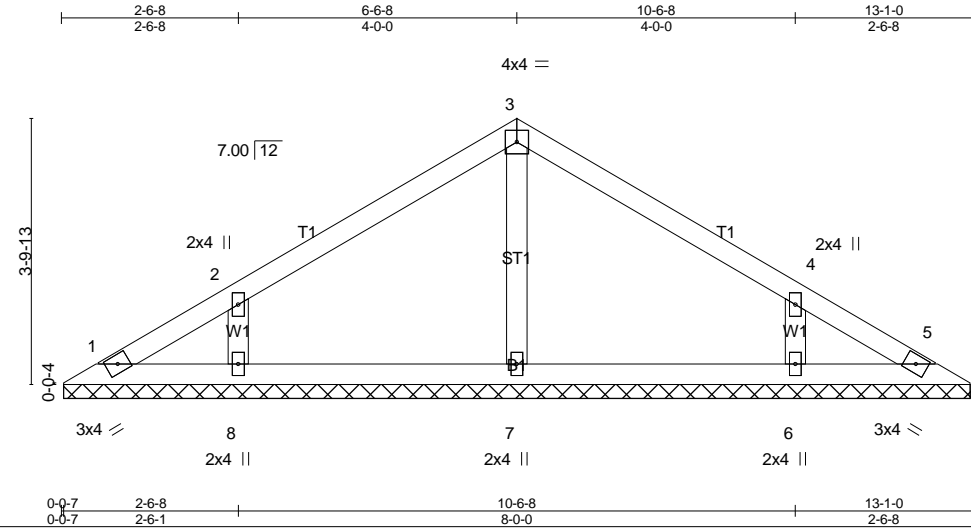
LOAD CASE(S) Standard

Job 2100664-2100664A	Truss V6	Truss Type Valley	Qty 1	Ply 1	Jackson Sanford Plan Job Reference (optional)
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84 Components, Dunn, NC 28334

8.500 s Apr 2 2021 MiTek Industries, Inc. Thu Jun 17 09:05:48 2021 Page 1

ID:HnGGz9AwBGtDle06oN8P5Fz5Rgt-3naZQPFx9vcd10JvG_2RXizL8loXYEQoQYJSt1z5RRH



Scale = 1:33.1

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.34	in (loc) l/def L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.12	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.05	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 5 n/a n/a		
	Code IRC2015/TPI2014			Weight: 48 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.3
 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
 WEBS 2x4 SP No.3
 OTHERS 2x4 SP No.3

BRACING-

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS.

All bearings 13-0-2.
 (lb) - Max Horz 1=87(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=-123(LC 12), 6=-123(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=253(LC 1), 8=331(LC 19), 6=331(LC 20)

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

WEBS 2-8=-264/164, 4-6=-264/164

NOTES-

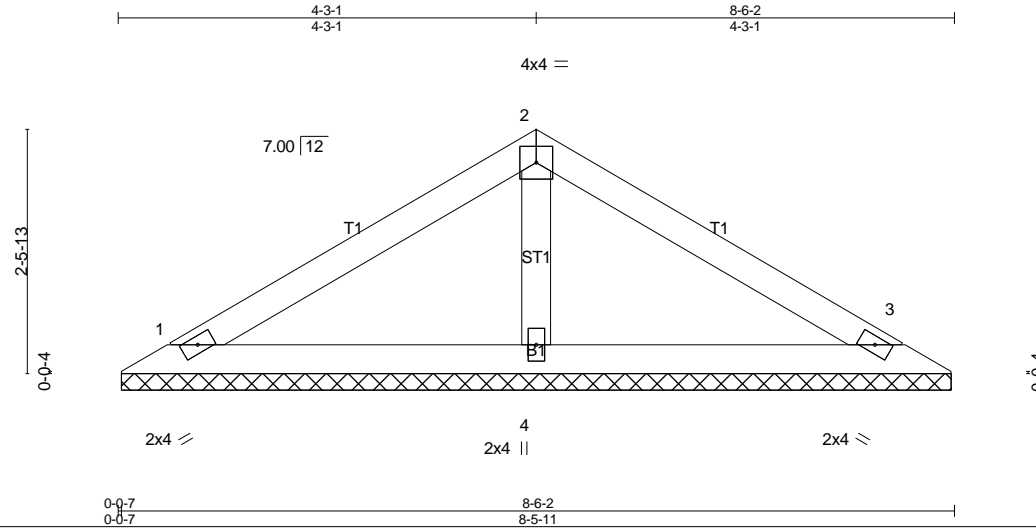
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- One MTS12 Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1. This connection is for uplift only and does not consider lateral forces.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 8 and 6. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job 2100664-2100664A	Truss V7	Truss Type Valley	Qty 1	Ply 1	Jackson Sanford Plan Job Reference (optional)
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84 Components, Dunn, NC 28334

8.500 s Apr 2 2021 MiTek Industries, Inc. Thu Jun 17 09:05:50 2021 Page 1
ID:HnGGz9AwBgTDle06oN8P5Fz5Rgt-?AhJr5HBhWskGKTiOP4wd72f6YSD0814usoYxwz5RRF



Scale = 1:23.5

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.44	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.24	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.04	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 3 n/a n/a		
	Code IRC2015/TPI2014			Weight: 28 lb	FT = 20%

LUMBER-

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

BRACING-

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 1=154/8-5-5 (min. 0-1-8), 3=154/8-5-5 (min. 0-1-8), 4=286/8-5-5 (min. 0-1-8)
Max Horz 1=-54(LC 10)
Max Uplift1=-35(LC 12), 3=-42(LC 13)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- One MTS12 Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 3. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard