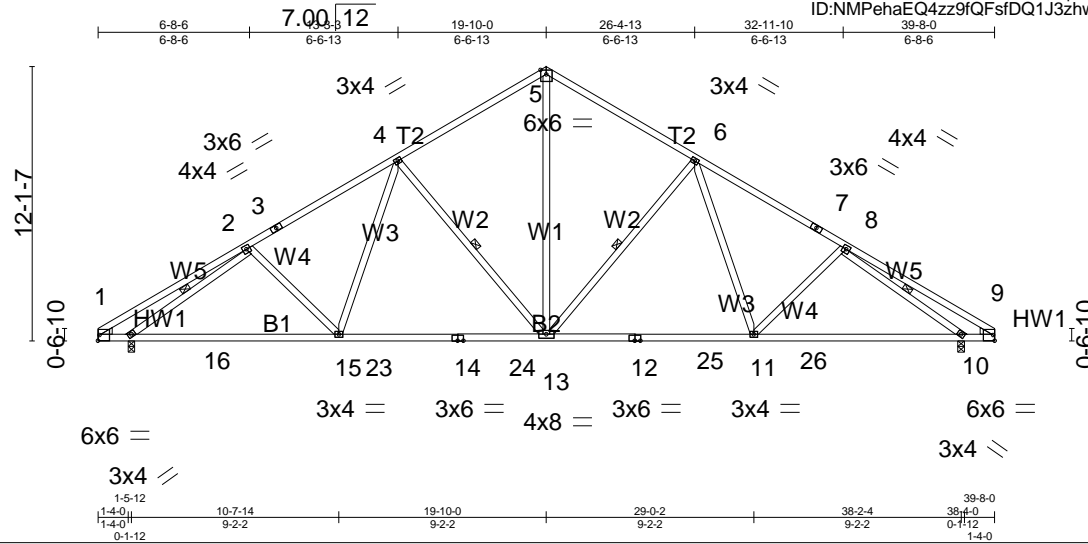


Job 2100199-2100199A	Truss A	Truss Type Common	Qty 10	Ply 1	120 BEECHLEAF - SOUTHEASTERN
84 Components, Dunn, NC 28334					Job Reference (optional)

8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 14:27:44 2021 Page 1
ID: NMPehaEQ4zz9fQFsfDQ1J3zhw?Z-FL8IUjoz1iV3Rqehx7bIkfARbdPwSbvz1GTRAZhvpD



Scale = 1:101.9

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 0.56	Vert(LL)	-0.25 13-15	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.84	Vert(CT)	-0.42 13-15	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.65	Horz(CT)	0.09 10	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS					Weight: 236 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
 WEDGE
 Left: 2x4 SP No.3 , Right: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-10-9 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 6-13, 4-13, 2-16, 8-10

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

REACTIONS. (lb/size) 16=1587/0-3-8 (min. 0-2-8), 10=1587/0-3-8 (min. 0-2-8)
 Max Horz 16=286(LC 11)
 Max Uplift 16=-182(LC 12), 10=-182(LC 13)
 Max Grav 16=1594(LC 19), 10=1594(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-348/14, 2-3=-2027/358, 3-4=-1876/395, 4-5=-1525/401, 5-6=-1525/401, 6-7=-1876/395, 7-8=-2027/358, 8-9=-348/14
 BOT CHORD 1-16=0/269, 15-16=-330/1911, 15-23=-183/1726, 14-23=-183/1726, 14-24=-183/1726, 13-24=-183/1726, 13-25=-114/1580,
 12-25=-114/1580, 12-26=-114/1580, 11-26=-114/1580, 10-11=-229/1697, 9-10=0/269
 WEBS 5-13=-241/1125, 6-13=-638/265, 6-11=-24/355, 4-13=-638/265, 4-15=-24/355, 2-16=-1961/413, 8-10=-1961/413

NOTES-

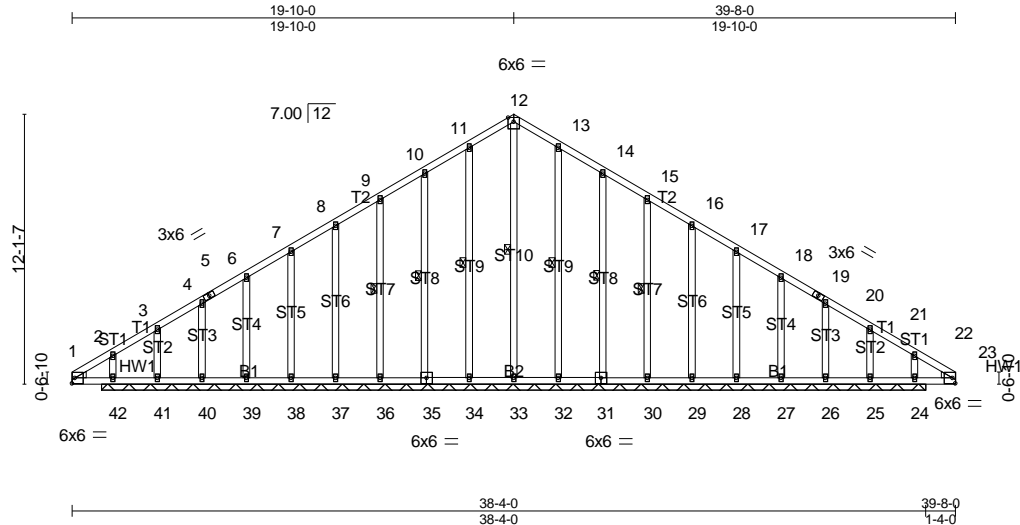
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) 16 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 2100199-2100199A	Truss AE	Truss Type Common Supported Gable	Qty 2	Ply 1	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
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84 Components, Dunn, NC 28334

8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 14:32:46 2021 Page 1
ID: NMPehaEQ4zz9fQFsfdQ1J3zhw?Z-PROTs_SOvUYCgFkkdZ06aLh8hM5cg9IMPOQS1gzhvkV



Scale = 1:103.5

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 0.16	Vert(LL) n/a - n/a 999	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.22	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.20	Horz(CT) 0.01 24 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S			
				Weight: 300 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 10-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
 WEBS 1 Row at midpt 12-33, 11-34, 10-35, 9-36, 13-32, 14-31, 15-30

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

REACTIONS.

All bearings 37-0-0.
 (lb) - Max Horz 42=-292(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 34, 35, 36, 37, 38, 39, 40, 32, 31, 30, 29, 28, 27, 26 except 41=-183(LC 12), 42=-154(LC 8), 25=-166(LC 13), 24=-120(LC 9)
 Max Grav All reactions 250 lb or less at joint(s) 34, 35, 36, 37, 38, 39, 40, 32, 31, 30, 29, 28, 27, 26, 25 except 33=308(LC 13), 41=264(LC 10), 42=319(LC 20), 24=293(LC 19)

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

TOP CHORD 8-9=-174/264, 9-10=-214/293, 10-11=-257/325, 11-12=-292/363, 12-13=-292/363, 13-14=-257/322, 14-15=-214/274
 WEBS 12-33=-292/173

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) 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; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 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.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 34, 35, 36, 37, 38, 39, 40, 41, 42, 32, 31, 30, 29, 28, 27, 26, 25, and 24. This connection is for uplift only and does not consider lateral forces.
- Non Standard bearing condition. Review required.
- 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	120 BEECHLEAF - SOUTHEASTERN
2100199-2100199A	AE	Common Supported Gable	2	1	Job Reference (optional)

84 Components, Dunn, NC 28334

8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 14:32:46 2021 Page 2
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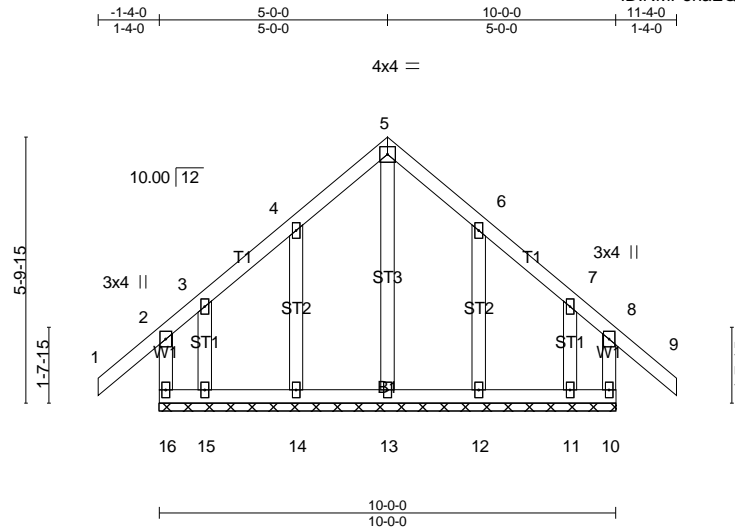
LOAD CASE(S) Standard

Job 2100199-2100199A	Truss BE	Truss Type Common Supported Gable	Qty 1	Ply 1	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
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8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 14:32:54 2021 Page 1

ID: NMPehaEQ4zz9fQFsfDQ1J3zhw?Z-A_tUYjYPOyZ4dTLG5E9_u10WlbsOYodYFGMtJCzhvK



Scale = 1:50.5

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 0.18	Vert(LL) -0.01 9 n/r 120	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.10	Vert(CT) -0.01 9 n/r 90		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.12	Horz(CT) -0.00 10 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-R		Weight: 68 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

BRACING-

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

All bearings 10-0-0.
 (lb) - Max Horz 16=-183(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 14, 12 except 16=-171(LC 8), 10=-159(LC 9), 15=-153(LC 9), 11=-145(LC 8)
 Max Grav All reactions 250 lb or less at joint(s) 16, 10, 13, 14, 15, 12, 11

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

NOTES-

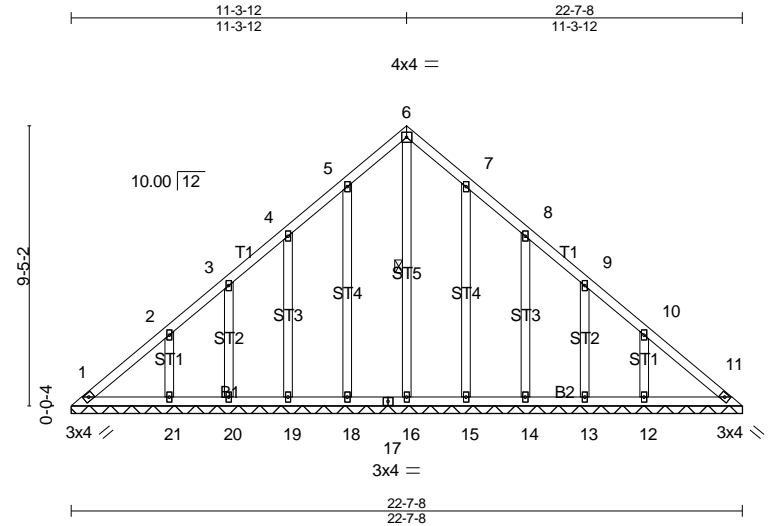
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 16, 10, 14, 15, 12, and 11. This connection is for uplift only and does not consider lateral forces.
- 11) 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 2100199-2100199A	Truss V1	Truss Type GABLE	Qty 1	Ply 1	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
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84 Components, Dunn, NC 28334

8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 14:25:48 2021 Page 1
ID:NMPehaEQ4zz9fQfsdQ1J3zhw?Z-e08R82OCL3uWX0nO8mW5dCNj1sULK7gri_AKMuzhvr1



Scale = 1:77.7

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 0.10	Vert(LL) n/a - n/a 999	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.06	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.15	Horz(CT) 0.01 11 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S			
				Weight: 145 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

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.
 WEBS 1 Row at midpt 6-16

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

REACTIONS.

All bearings 22-7-8.
 (lb) - Max Horz 1=225(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 11, 18, 19, 20, 15, 14, 13 except 21=-124(LC 12), 12=-124(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 1, 11, 16, 18, 19, 20, 15, 14, 13 except 21=263(LC 19), 12=263(LC 20)

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

NOTES-

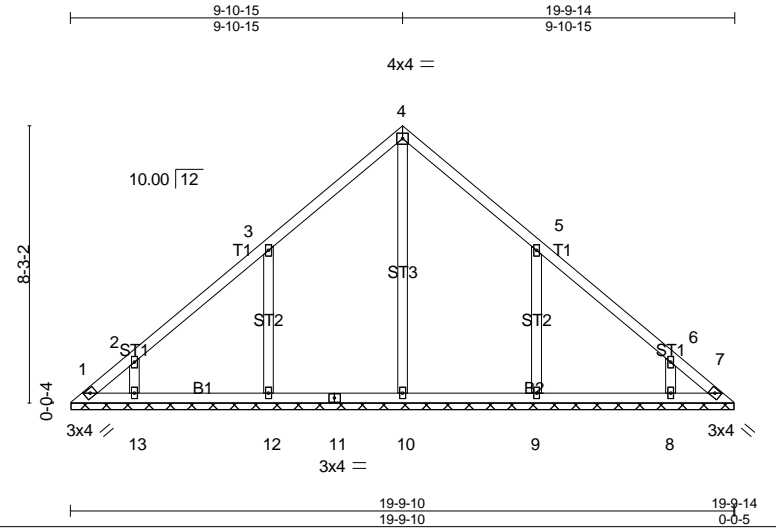
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are 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.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1, 11, 18, 19, 20, 21, 15, 14, 13, and 12. 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 2100199-2100199A	Truss V2	Truss Type Valley	Qty 1	Ply 1	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
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84 Components, Dunn, NC 28334

8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 14:26:10 2021 Page 1
ID:NMPehaEQ4zz9fQFsfDQ1J3zhw?Z-?FTmlaf?9pfO9OTdQOwFWqHStkzXu2E4LPVU7dzhvqh



Scale = 1:68.7

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 0.20	Vert(LL) n/a - n/a 999	MT20	197/144
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 0.21	Horz(CT) 0.00 7 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 94 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

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 19-9-5.
 (lb) - Max Horz 1=-196(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 7 except 12=-187(LC 12), 13=-132(LC 12), 9=-187(LC 13), 8=-133(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 10=387(LC 22), 12=442(LC 19), 13=273(LC 19), 9=442(LC 20), 8=273(LC 20)

FORCES.

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

WEBS 3-12=-311/237, 5-9=-311/236

NOTES-

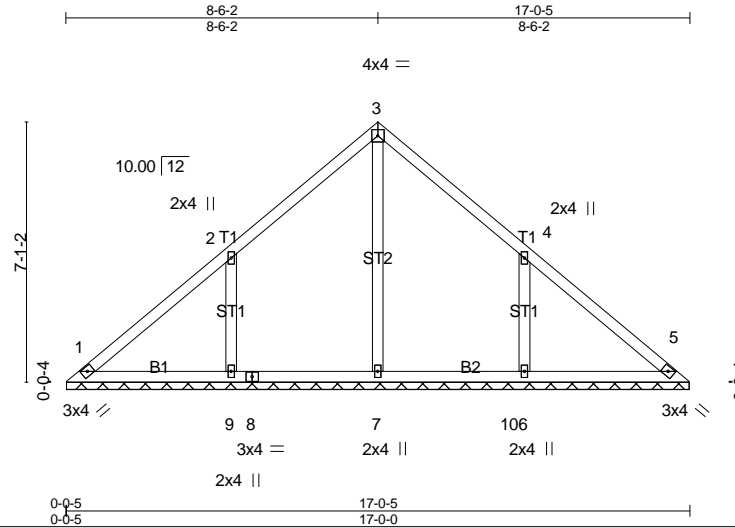
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1, 7, 12, 13, 9, 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 2100199-2100199A	Truss V3	Truss Type Valley	Qty 1	Ply 1	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
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84 Components, Dunn, NC 28334

8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 14:26:24 2021 Page 1
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Scale = 1:62.9

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 0.39	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.30	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.14	Horz(CT) 0.00 5 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 76 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 16-11-11.
(lb) - Max Horz 1=-167(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 1 except 9=-206(LC 12), 6=-206(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=364(LC 22), 9=464(LC 19), 6=466(LC 20)

FORCES.

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

WEBS 2-9=-336/251, 4-6=-336/251

NOTES-

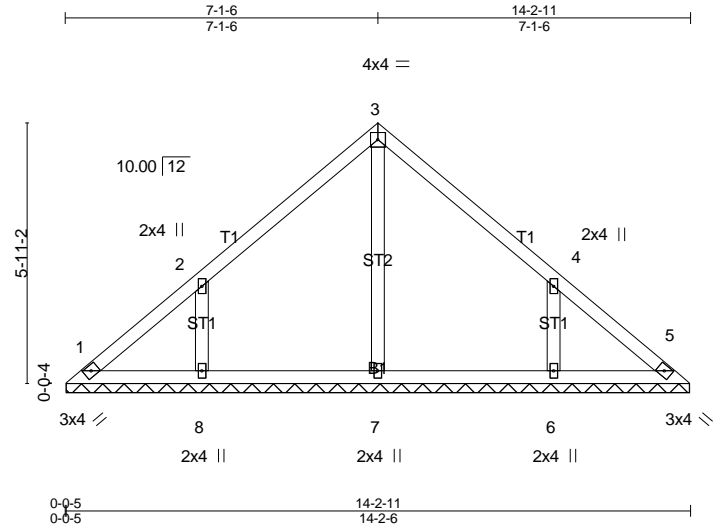
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1, 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 2100199-2100199A	Truss V4	Truss Type Valley	Qty 1	Ply 1	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
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8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 14:26:35 2021 Page 1
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Scale = 1:52.4

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 0.30	Vert(LL) n/a - n/a 999	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.12	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.10	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.2 or 2x4 SPF No.2
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 14-2-2.
(lb) - Max Horz 1=-138(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=-173(LC 12), 6=-173(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=349(LC 19), 6=349(LC 20)

FORCES.

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

WEBS

2-8=-285/214, 4-6=-285/214

NOTES-

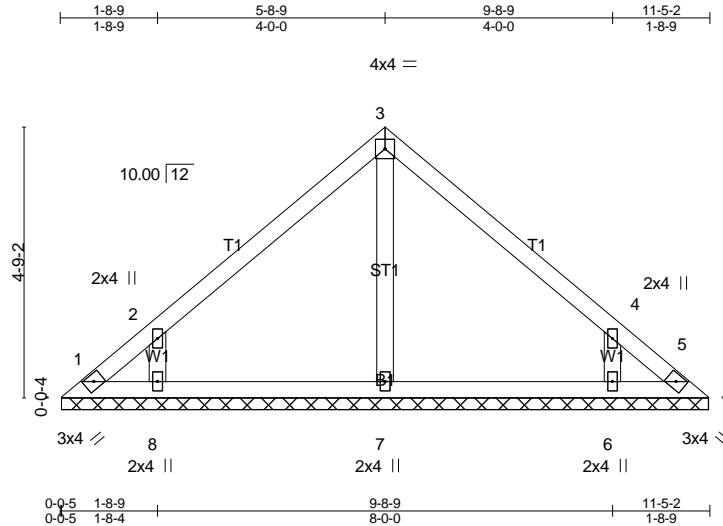
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1, 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 2100199-2100199A	Truss V5	Truss Type Valley	Qty 1	Ply 1	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
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84 Components, Dunn, NC 28334

8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 14:26:59 2021 Page 1
ID:NMPehaEQ4zz9fQFsfDQ1J3zhw?Z-3hwH1KFkdtqRYwi2oBIk?AppmUghtFalcXtaLHzhvpw



Scale = 1:40.5

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 0.31	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.21	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.06	Horz(CT) 0.00 5 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 46 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 11-4-8.
(lb) - Max Horz 1=109(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-166(LC 12), 6=-166(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=326(LC 19), 6=326(LC 20)

FORCES.

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

WEBS 2-8=-280/213, 4-6=-280/213

NOTES-

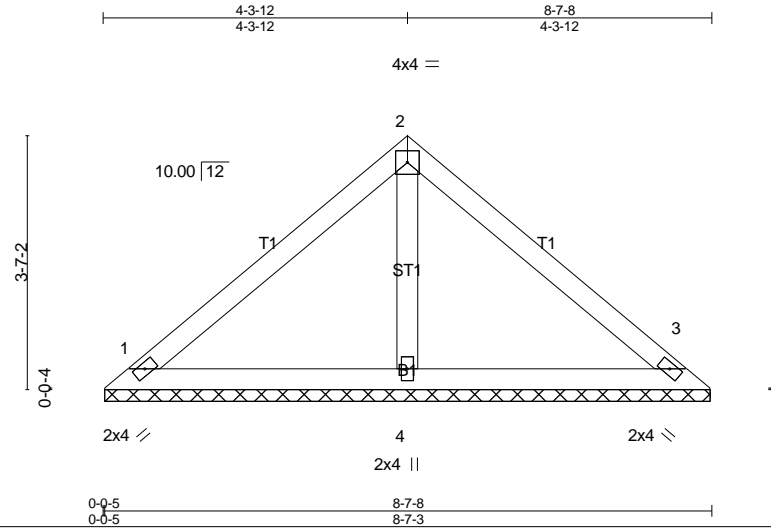
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1, 5, 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 2100199-2100199A	Truss V6	Truss Type Valley	Qty 1	Ply 1	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
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84 Components, Dunn, NC 28334

8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 14:27:05 2021 Page 1
ID: NMPehaEQ4zz9fQFsfDQ1J3zhw?Z-uqIYINKVCjbbGrAB8RP8FR3olviEHZMA?SKvZxzhvpq



Scale = 1:32.6

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 0.50	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.26	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.05	Horz(CT) 0.00 3 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P		Weight: 32 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=178/8-6-14 (min. 0-1-8), 3=178/8-6-14 (min. 0-1-8), 4=270/8-6-14 (min. 0-1-8)
Max Horz 1=-81(LC 8)
Max Uplift1=-37(LC 13), 3=-47(LC 13)

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

NOTES-

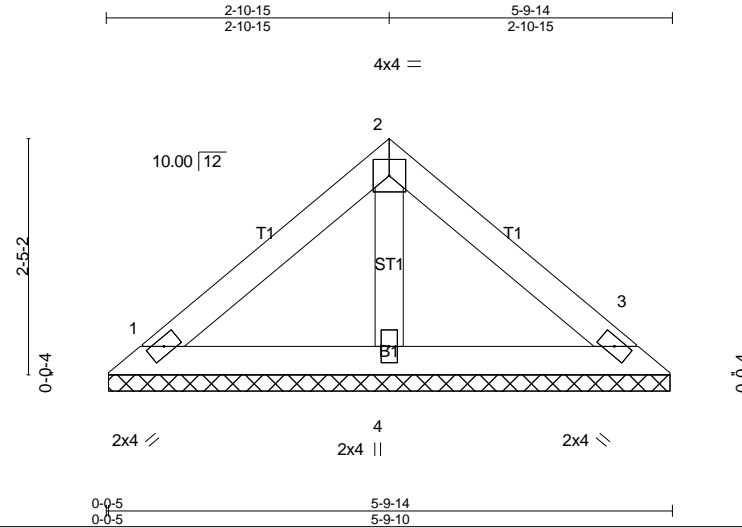
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) One H2.5A 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 2100199-2100199A	Truss V7	Truss Type Valley	Qty 1	Ply 1	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
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84 Components, Dunn, NC 28334

8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 14:27:09 2021 Page 1
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Scale = 1:23.7

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 0.19	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.11	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.02	Horz(CT) 0.00 3 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P		Weight: 21 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 5-9-14 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) 1=114/5-9-5 (min. 0-1-8), 3=114/5-9-5 (min. 0-1-8), 4=173/5-9-5 (min. 0-1-8)
Max Horz 1=-52(LC 8)
Max Uplift1=-24(LC 13), 3=-30(LC 13)

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

NOTES-

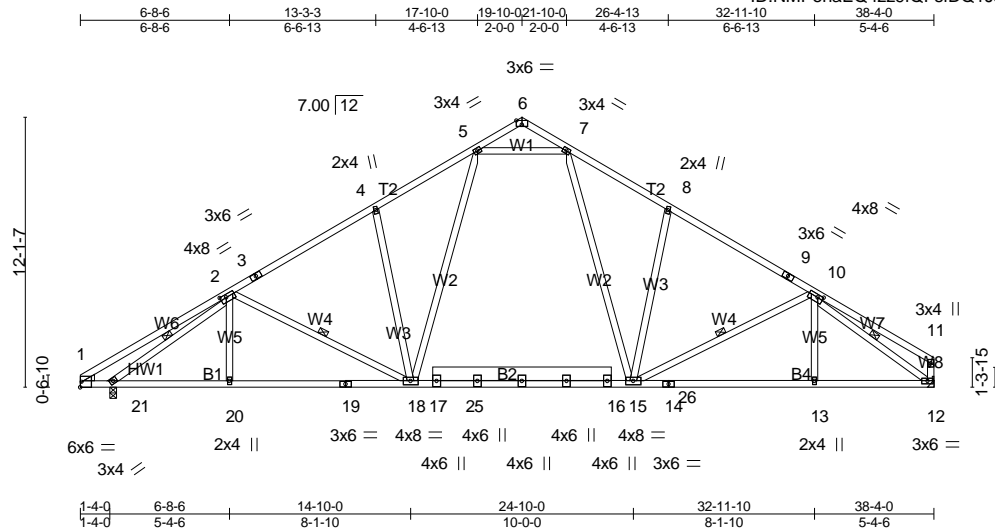
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 H2.5A 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 2100199-2100199A	Truss A2	Truss Type ROOF TRUSS	Qty 4	Ply 1	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
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84 Components, Dunn, NC 28334

8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 14:32:25 2021 Page 1
ID:NMPeHaEQ4zz9fQsfDQ1J3zhw?Z-WOdXSoBDr1vBf0diue8BDwJMKvndFaTHaFrqnOzhvkv



Scale = 1:103.5

Plate Offsets (X,Y)-- [2:0-3-4,0-1-8], [6:0-3-0,Edge], [10:0-3-0,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.90	Vert(LL) -0.33	18-20	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.87	Vert(CT) -0.48	18-20	>916	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.56	Horz(CT) 0.08	12	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS						
							Weight: 268 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*
 B3: 2x8 SP No.2
 WEBS 2x4 SP No.3
 WEDGE
 Left: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 2-18, 10-15, 10-12, 2-21

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

REACTIONS. (lb/size) 12=1475/Mechanical, 21=1580/0-3-8 (min. 0-2-8)
 Max Horz 21=304(LC 11)
 Max Uplift 12=-162(LC 13), 21=-182(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1832/344, 3-4=-1744/380, 4-5=-1790/471, 7-8=-1780/471, 8-9=-1736/379, 9-10=-1823/344
 BOT CHORD 20-21=-302/1893, 19-20=-302/1893, 18-19=-302/1893, 17-18=-67/1360, 17-25=-67/1360, 25-26=-67/1360, 16-26=-67/1360,
 15-16=-67/1360, 14-15=-239/1656, 13-14=-239/1656, 12-13=-239/1656
 WEBS 2-20=0/275, 2-18=-285/162, 4-18=-411/263, 5-18=-210/820, 7-15=-206/798, 8-15=-412/266, 10-13=0/285, 10-12=-1962/257,
 2-21=-2006/286, 5-7=-1238/405

NOTES-

- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 BC DL = 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) 12=162.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 21. 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	120 BEECHLEAF - SOUTHEASTERN
2100199-2100199A	A2	ROOF TRUSS	4	1	Job Reference (optional)

84 Components, Dunn, NC 28334

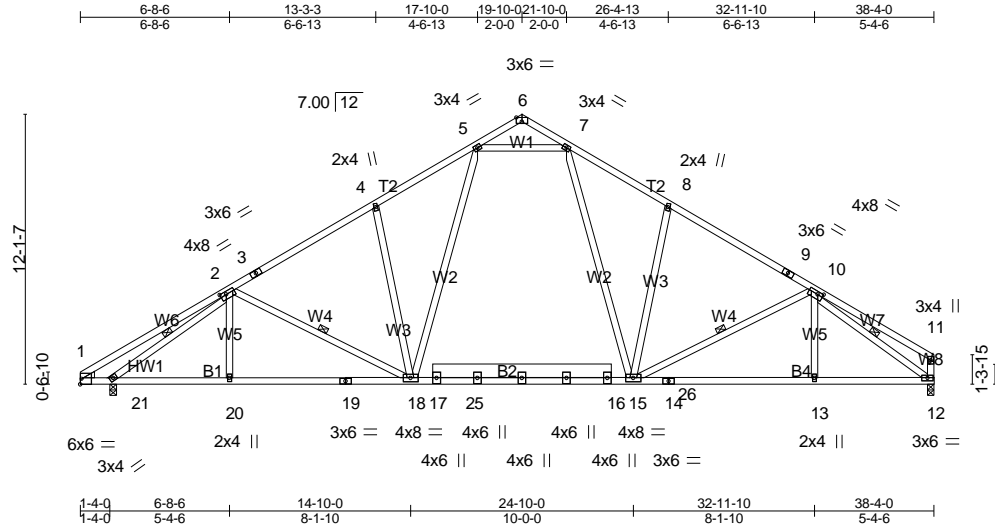
8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 14:32:25 2021 Page 2
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LOAD CASE(S) Standard

Job 2100199-2100199A	Truss A1	Truss Type ROOF TRUSS	Qty 2	Ply 1	120 BEECHLEAF - SOUTHEASTERN
84 Components, Dunn, NC 28334					Job Reference (optional)

8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 14:31:52 2021 Page 1

ID: NMPehaEQ4zz9fQFsfDQ1J3zhw?Z-_282XWoWdultBycMSD2SNySjfbWv0fIQ_cLb8ozhVl



Scale = 1:103.5

Plate Offsets (X,Y)-- [2:0-3-4,0-1-8], [6:0-3-0,Edge], [10:0-3-0,0-1-8]

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 0.90	Vert(LL)	-0.33	18-20	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.87	Vert(CT)	-0.48	18-20	>916	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.56	Horz(CT)	0.08	12	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS							
									Weight: 268 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*
 B3: 2x8 SP No.2
 WEBS 2x4 SP No.3
 WEDGE
 Left: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 2-18, 10-15, 10-12, 2-21

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

REACTIONS.

(lb/size) 12=1475/0-3-8 (min. 0-2-5), 21=1580/0-3-8 (min. 0-2-8)
 Max Horz 21=304(LC 11)
 Max Uplift 12=-162(LC 13), 21=-182(LC 12)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1832/344, 3-4=-1744/380, 4-5=-1790/471, 7-8=-1780/471, 8-9=-1736/379, 9-10=-1823/344
 BOT CHORD 20-21=-302/1893, 19-20=-302/1893, 18-19=-302/1893, 17-18=-67/1360, 17-25=-67/1360, 25-26=-67/1360, 16-26=-67/1360,
 15-16=-67/1360, 14-15=-239/1656, 13-14=-239/1656, 12-13=-239/1656
 WEBS 2-20=0/275, 2-18=-285/162, 4-18=-411/263, 5-18=-210/820, 7-15=-206/798, 8-15=-412/266, 10-13=0/285, 10-12=-1962/257,
 2-21=-2006/286, 5-7=-1238/405

NOTES-

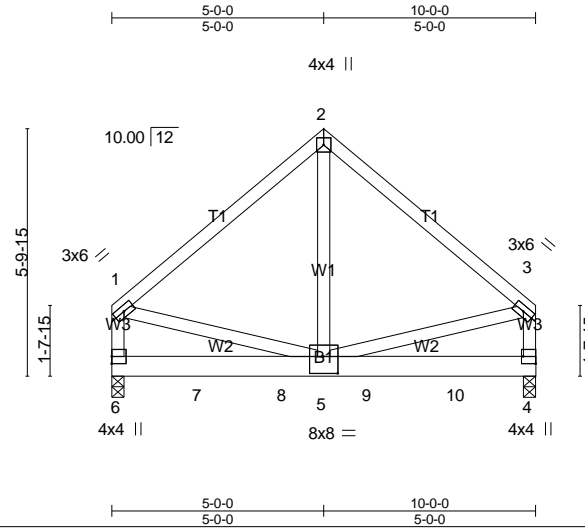
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) 12 and 21. 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.

LOAD CASE(S) Standard

Job 2100199-2100199A	Truss BGR	Truss Type Common Girder	Qty 1	Ply 2	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
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8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 14:34:24 2021 Page 1
ID:NMPehaEQ4zz9fQFsfDQ1J3zhw?Z-XIJWRUetqbvIQJEZM8n5Y0ImQtVQeMToxGAdT_zhviz



Scale = 1:54.4

Plate Offsets (X,Y)-- [4:Edge,0-3-8], [5:0-4-0,0-4-12]

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 0.70	Vert(LL)	-0.03	4-5	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.42	Vert(CT)	-0.07	4-5	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.66	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS							
									Weight: 136 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 or 2x4 SPF 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, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 6=3261/0-3-8 (min. 0-2-9), 4=3336/0-3-8 (min. 0-2-10)
Max Horz 6=-149(LC 8)
Max Uplift 6=-374(LC 13), 4=-383(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2786/388, 2-3=-2787/388, 1-6=-2373/343, 3-4=-2370/343
BOT CHORD 6-7=-182/365, 7-8=-182/365, 5-8=-182/365, 5-9=-89/299, 9-10=-89/299, 4-10=-89/299
WEBS 2-5=-336/3180, 1-5=-239/1852, 3-5=-239/1841

NOTES-

- 2-ply truss to be connected together with 10d (0.120"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-5-0 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 (3-second gust) 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; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) 6 and 4. 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.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1455 lb down and 182 lb up at 2-0-12, 1455 lb down and 182 lb up at 4-0-12, and 1455 lb down and 182 lb up at 6-0-12, and 1455 lb down and 182 lb up at 8-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

Continued on page 2

Job 2100199-2100199A	Truss BGR	Truss Type Common Girder	Qty 1	Ply 2	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
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84 Components, Dunn, NC 28334

8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 14:34:24 2021 Page 2
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LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-60, 2-3=-60, 4-6=-20

Concentrated Loads (lb)

Vert: 7=-1455(B) 8=-1455(B) 9=-1455(B) 10=-1455(B)

Job 2100199-2100199A	Truss F1	Truss Type Floor	Qty 6	Ply 1	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
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84 Components, Dunn, NC 28334

8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 15:36:52 2021 Page 1
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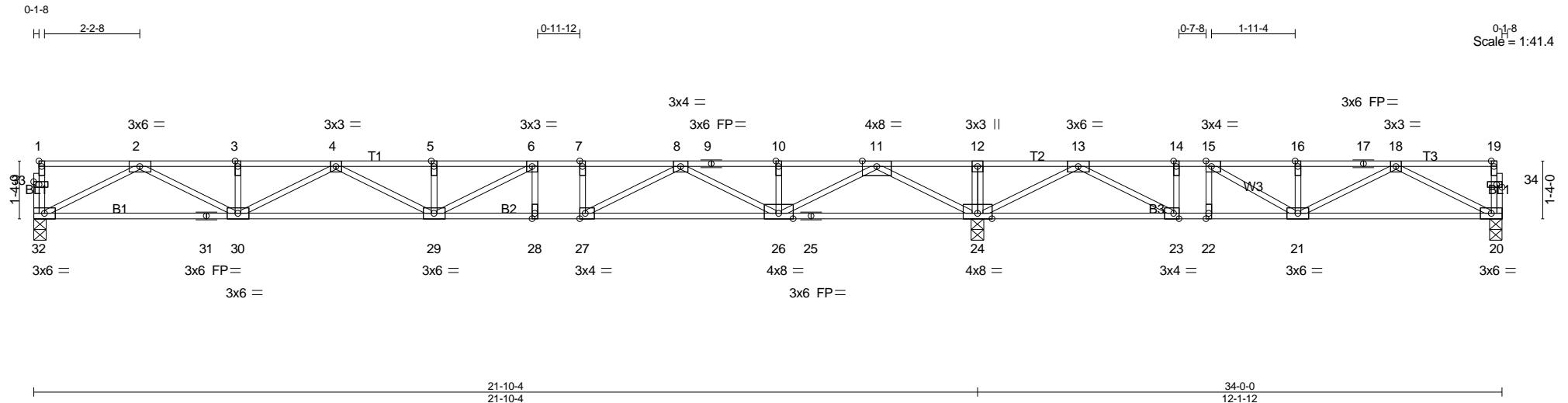


Plate Offsets (X,Y)-- [1:Edge,0-0-12], [15:0-1-8,Edge], [23:0-1-8,Edge], [27:0-1-8,Edge], [33:0-1-8,0-0-12], [34:0-1-8,0-0-12]

LOADING (psf)	SPACING- 1-4-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.82	Vert(LL) -0.29 28-29 >894 480	MT20	197/144
TCDL 10.0	Lumber DOL 1.00	BC 0.74	Vert(CT) -0.39 28-29 >663 360		
BCLL 0.0	Rep Stress Incr YES	WB 0.69	Horz(CT) 0.04 24 n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S			Weight: 174 lb FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-

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

REACTIONS.

(lb/size) 32=665/0-3-8 (min. 0-1-8), 20=205/0-3-8 (min. 0-1-8), 24=1597/0-3-8 (min. 0-1-8)
Max Uplift 20=-89(LC 3)
Max Grav 32=677(LC 3), 20=350(LC 4), 24=1597(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1978/0, 3-4=-1978/0, 4-5=-2662/0, 5-6=-2662/0, 6-7=-2386/0, 7-8=-2386/0, 8-9=-782/13, 9-10=-782/13, 10-11=-782/13, 11-12=0/2246, 12-13=0/2246, 13-14=-562/926, 14-15=-562/926, 15-16=-744/480, 16-17=-744/480, 17-18=-744/480
BOT CHORD 31-32=0/1166, 30-31=0/1166, 29-30=0/2453, 28-29=0/2386, 27-28=0/2386, 26-27=0/1695, 25-26=-679/0, 24-25=-679/0, 23-24=-1483/13, 22-23=-926/562, 21-22=-926/562, 20-21=-217/538
WEBS 2-32=-1310/0, 11-24=-1780/0, 2-30=0/919, 11-26=0/1440, 4-30=-538/0, 8-26=-1060/0, 8-27=0/867, 6-29=-94/534, 18-20=-602/245, 13-24=-1240/0, 18-21=-298/234, 13-23=0/976, 14-23=-291/0, 15-21=0/661

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 3) All plates are 1.5x4 MT20 unless otherwise indicated.
- 4) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 20. This connection is for uplift only and does not consider lateral forces.
- 5) 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.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 7) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

Job 2100199-2100199A	Truss F10	Truss Type Floor	Qty 6	Ply 1	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
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84 Components, Dunn, NC 28334

8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 15:37:05 2021 Page 1
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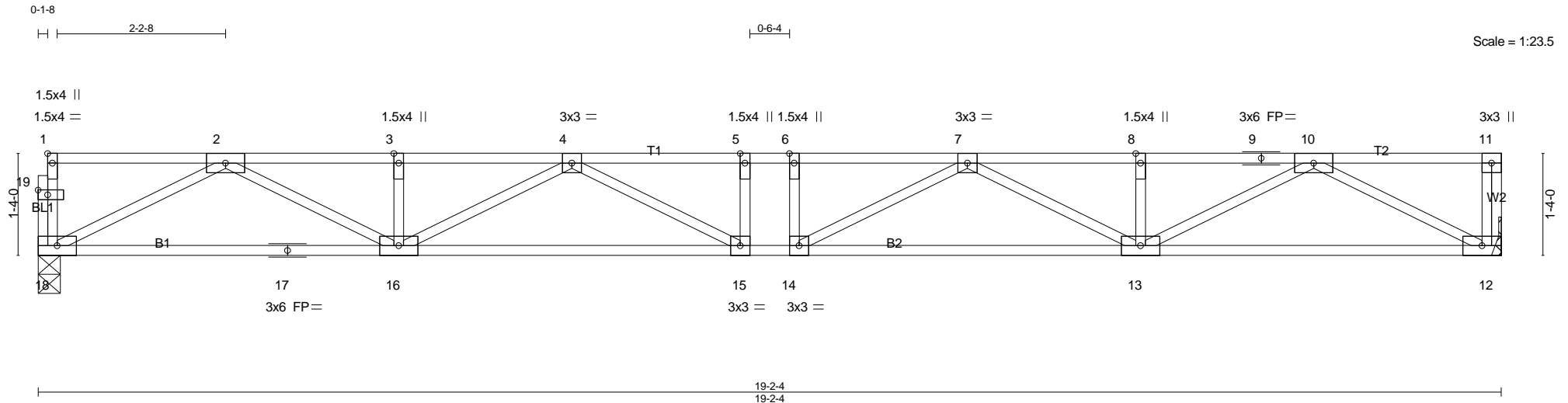


Plate Offsets (X,Y)-- [1:Edge,0-0-12], [19:0-1-8,0-0-12]

LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL 40.0	1-4-0	TC 0.32	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.00	BC 0.74	Vert(LL) -0.23 15 >999 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.45	Vert(CT) -0.31 15 >733 360		
BCDL 5.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.06 12 n/a n/a		
	Code IRC2015/TPI2014			Weight: 99 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-

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

REACTIONS. (lb/size) 18=690/0-3-8 (min. 0-1-8), 12=694/Mechanical

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

TOP CHORD 2-3=-2028/0, 3-4=-2028/0, 4-5=-2729/0, 5-6=-2729/0, 6-7=-2729/0, 7-8=-2028/0, 8-9=-2028/0, 9-10=-2028/0
BOT CHORD 17-18=0/1192, 16-17=0/1192, 15-16=0/2528, 14-15=0/2729, 13-14=0/2528, 12-13=0/1194
WEBS 10-12=-1344/0, 2-18=-1339/0, 10-13=0/945, 2-16=0/946, 7-13=-567/0, 4-16=-567/0, 7-14=-66/402, 4-15=-65/402

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 3) All plates are 3x6 MT20 unless otherwise indicated.
- 4) Refer to girder(s) for truss to truss connections.
- 5) 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.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 7) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

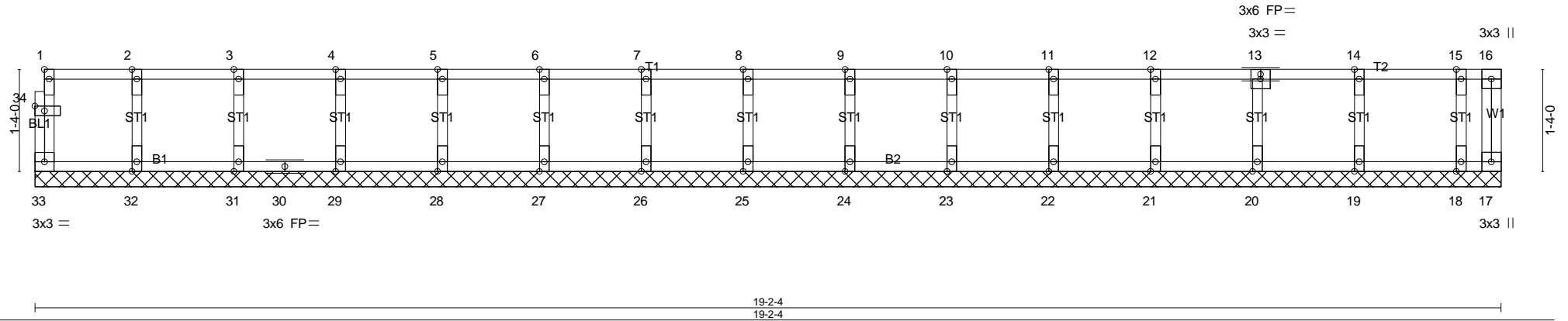
Job 2100199-2100199A	Truss F10E	Truss Type Floor Supported Gable	Qty 1	Ply 1	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
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84 Components, Dunn, NC 28334

8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 15:37:07 2021 Page 1
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0₁1₈

Scale = 1:23.4



LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES		GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	in	(loc)	l/defl	L/d	MT20	197/144	Weight: 86 lb FT = 20%F, 11%E	
TCDL	10.0	Lumber DOL	1.00	BC	0.03	Vert(LL)	n/a	-	n/a				
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Vert(CT)	n/a	-	n/a				
BCDL	5.0	Code IRC2015/TPI2014		Matrix-R		Horz(CT)	0.00	17	n/a				

LUMBER-
 TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
 WEBS 2x4 SP No.3(flat)
 OTHERS 2x4 SP No.3(flat)

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

REACTIONS. All bearings 19-2-4.
 (lb) - Max Grav All reactions 250 lb or less at joint(s) 33, 17, 32, 31, 29, 28, 27, 26, 25, 24, 23, 22, 21, 20, 19, 18

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

- NOTES-**
- 1) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
 - 2) All plates are 1.5x4 MT20 unless otherwise indicated.
 - 3) Gable requires continuous bottom chord bearing.
 - 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 5) Gable studs spaced at 1-4-0 oc.
 - 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.
 - 7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 8) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

Job 2100199-2100199A	Truss F11	Truss Type Floor	Qty 7	Ply 1	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
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84 Components, Dunn, NC 28334

8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 15:37:09 2021 Page 1
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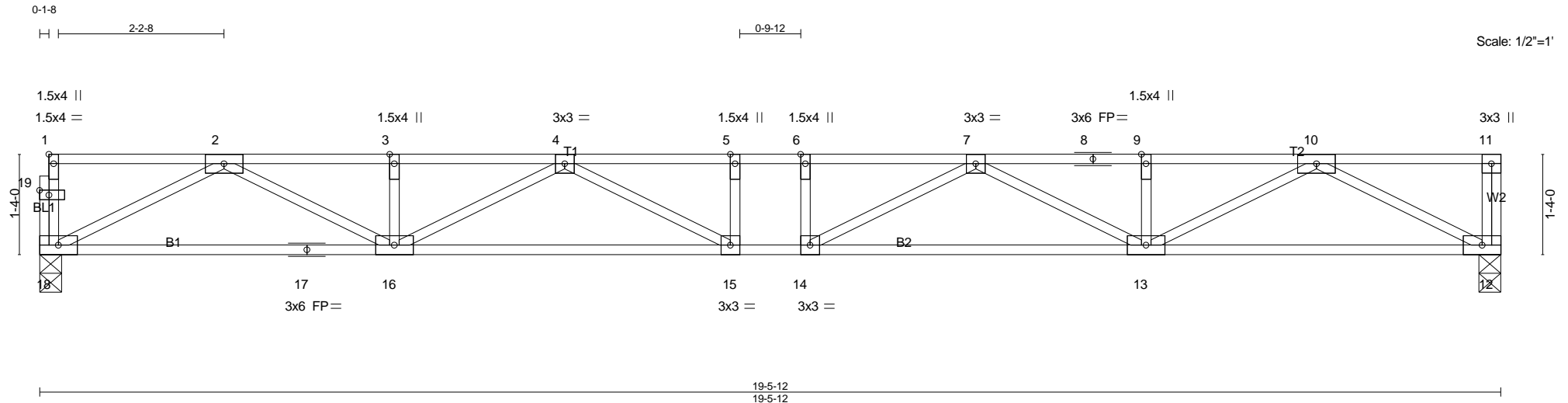


Plate Offsets (X,Y)-- [1:Edge,0-0-12], [19:0-1-8,0-0-12]

LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL 40.0	1-4-0	TC 0.37	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.00	BC 0.76	Vert(LL) -0.24 15 >966 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.46	Vert(CT) -0.33 15 >704 360		
BCDL 5.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.06 12 n/a n/a		
	Code IRC2015/TPI2014			Weight: 100 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-

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

REACTIONS. (lb/size) 18=701/0-3-8 (min. 0-1-8), 12=705/0-3-8 (min. 0-1-8)

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

TOP CHORD 2-3=-2069/0, 3-4=-2069/0, 4-5=-2809/0, 5-6=-2809/0, 6-7=-2809/0, 7-8=-2068/0, 8-9=-2068/0, 9-10=-2068/0
BOT CHORD 17-18=0/1213, 16-17=0/1213, 15-16=0/2589, 14-15=0/2809, 13-14=0/2589, 12-13=0/1214
WEBS 10-12=-1368/0, 2-18=-1362/0, 10-13=0/967, 2-16=0/969, 7-13=-590/0, 4-16=-589/0, 7-14=-55/436, 4-15=-55/436

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 3) All plates are 3x6 MT20 unless otherwise indicated.
- 4) 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.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

Job 2100199-2100199A	Truss F12	Truss Type Floor	Qty 1	Ply 1	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
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84 Components, Dunn, NC 28334

8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 15:37:10 2021 Page 1
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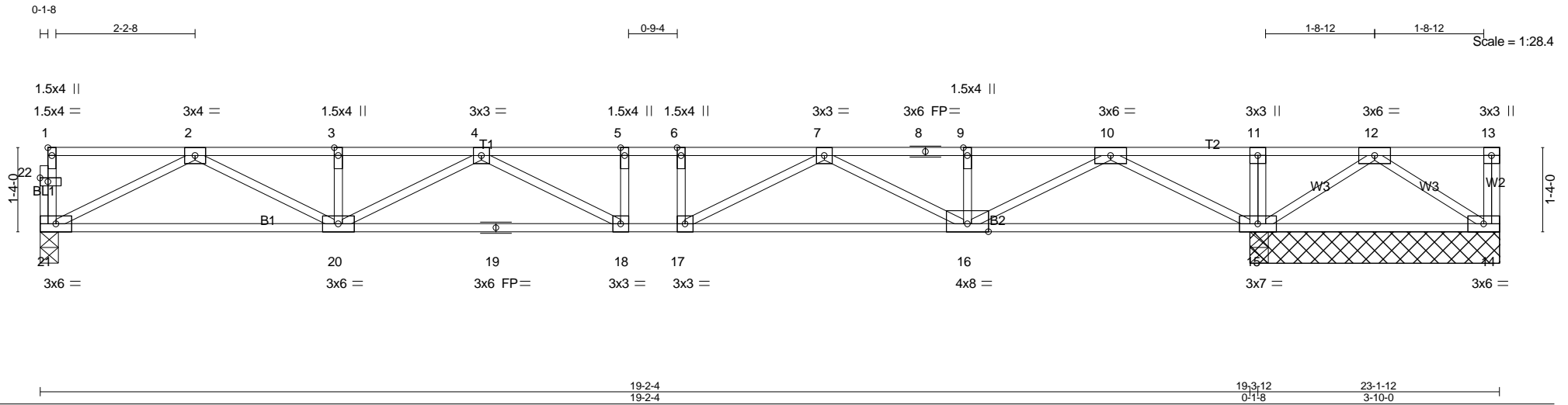


Plate Offsets (X,Y)-- [1:Edge,0-0-12], [22:0-1-8,0-0-12]

LOADING (psf)	SPACING-	1-4-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.68	Vert(LL)	-0.17	18-20	>999	MT20	197/144
TCDL 10.0	Lumber DOL	1.00	BC 0.64	Vert(CT)	-0.25	18-20	>929		
BCLL 0.0	Rep Stress Incr	YES	WB 0.58	Horz(CT)	0.03	15	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 120 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-

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

REACTIONS. (lb/size) 21=576/0-3-8 (min. 0-1-8), 15=1597/3-11-8 (min. 0-1-8), 15=1597/3-11-8 (min. 0-1-8), 14=-498/3-11-8 (min. 0-1-8)
Max Uplift14=-498(LC 1)

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

TOP CHORD 2-3=-1596/0, 3-4=-1596/0, 4-5=-1820/0, 5-6=-1820/0, 6-7=-1820/0, 7-8=-573/0, 8-9=-573/0, 9-10=-573/0, 10-11=0/1906,
11-12=0/1904

BOT CHORD 20-21=0/975, 19-20=0/1881, 18-19=0/1881, 17-18=0/1820, 16-17=0/1323, 15-16=-511/0, 14-15=-852/0

WEBS 2-21=-1094/0, 10-15=-1573/0, 2-20=0/703, 10-16=0/1227, 4-20=-323/0, 7-16=-849/0, 7-17=0/617, 12-15=-1254/0, 12-14=0/1017

NOTES-

- Unbalanced floor live loads have been considered for this design.
- As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- Two H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 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.
- Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

Job 2100199-2100199A	Truss F13	Truss Type Floor	Qty 3	Ply 1	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
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8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 15:37:12 2021 Page 1
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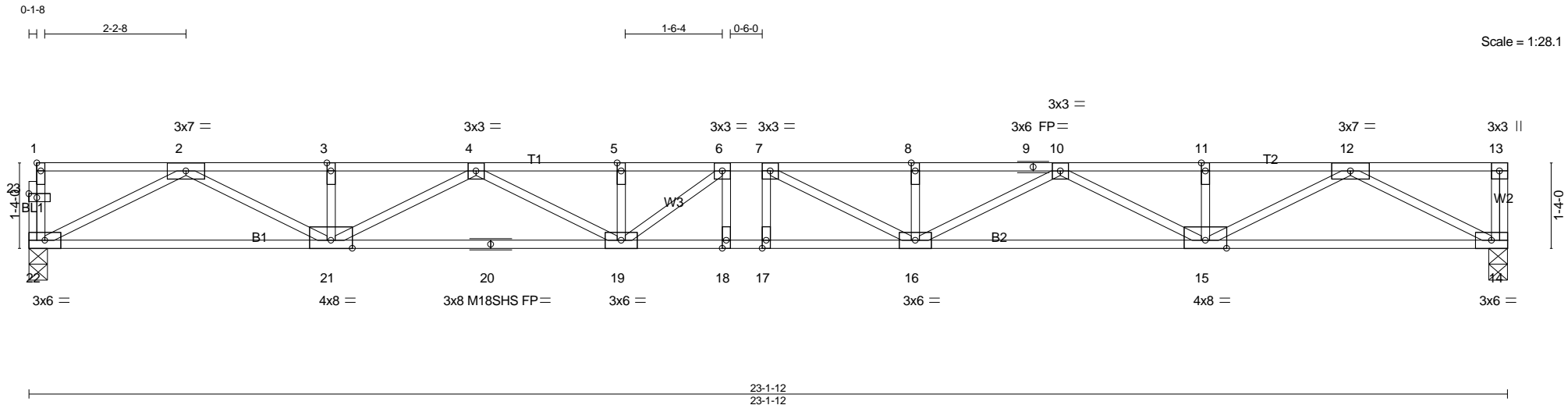


Plate Offsets (X,Y)-- [1:Edge,0-0-12], [23:0-1-8,0-0-12]

LOADING (psf)	SPACING-	CSL.	DEFL.	PLATES	GRIP
TCLL 40.0	1-4-0	TC 0.23	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.41	Vert(LL) -0.35 17 >781 480	M18SHS	244/190
BCLL 0.0	Lumber DOL 1.00	WB 0.60	Vert(CT) -0.48 17 >568 360		
BCDL 5.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.07 14 n/a n/a		
	Code IRC2015/TPI2014			Weight: 120 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP DSS(flat)
BOT CHORD 2x4 SP DSS(flat)
WEBS 2x4 SP No.3(flat)

BRACING-

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

REACTIONS. (lb/size) 22=835/0-3-8 (min. 0-1-8), 14=840/0-3-8 (min. 0-1-8)

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

TOP CHORD 2-3=-2579/0, 3-4=-2579/0, 4-5=-3824/0, 5-6=-3824/0, 6-7=-3969/0, 7-8=-3835/0, 8-9=-3835/0, 9-10=-3835/0, 10-11=-2579/0, 11-12=-2579/0

BOT CHORD 21-22=0/1471, 20-21=0/3350, 19-20=0/3350, 18-19=0/3969, 17-18=0/3969, 16-17=0/3969, 15-16=0/3348, 14-15=0/1472

WEBS 12-14=-1658/0, 2-22=-1653/0, 12-15=0/1253, 2-21=0/1255, 10-15=-872/0, 4-21=-873/0, 10-16=0/552, 4-19=0/537, 7-16=-411/189, 6-19=-408/155

NOTES-

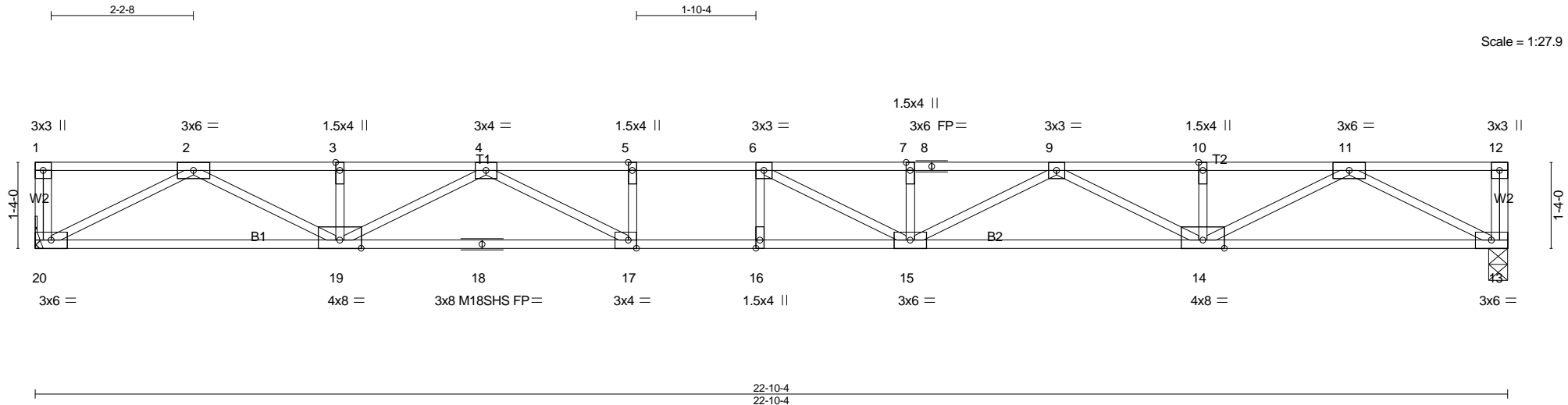
- Unbalanced floor live loads have been considered for this design.
- As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- All plates are MT20 plates unless otherwise indicated.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- 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.
- Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

Job 2100199-2100199A	Truss F14	Truss Type Floor	Qty 8	Ply 1	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
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8.400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 15:37:14 2021 Page 1
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LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.36	Vert(LL)	-0.37 15-16 >729 480	MT20	244/190		
TCDL	10.0	Lumber DOL	1.00	BC	0.53	Vert(CT)	-0.51 15-16 >532 360	M18SHS	244/190		
BCLL	0.0	Rep Stress Incr	YES	WB	0.59	Horz(CT)	0.07 13 n/a n/a	Weight: 115 lb FT = 20%F, 11%E			
BCDL	5.0	Code IRC2015/TPI2014		Matrix-S							

LUMBER-
 TOP CHORD 2x4 SP DSS(flat)
 BOT CHORD 2x4 SP DSS(flat)
 WEBS 2x4 SP No.3(flat)

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

REACTIONS. (lb/size) 20=829/Mechanical, 13=829/0-3-8 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2535/0, 3-4=-2535/0, 4-5=-3810/0, 5-6=-3810/0, 6-7=-3768/0, 7-8=-3768/0, 8-9=-3768/0, 9-10=-2538/0, 10-11=-2538/0
 BOT CHORD 19-20=0/1448, 18-19=0/3289, 17-18=0/3289, 16-17=0/3810, 15-16=0/3810, 14-15=0/3288, 13-14=0/1451
 WEBS 11-13=-1634/0, 2-20=-1631/0, 11-14=0/1231, 2-19=0/1230, 9-14=-850/0, 4-19=-854/0, 9-15=0/544, 4-17=0/777, 6-15=-455/289

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
 - 3) All plates are MT20 plates unless otherwise indicated.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) 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.
 - 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

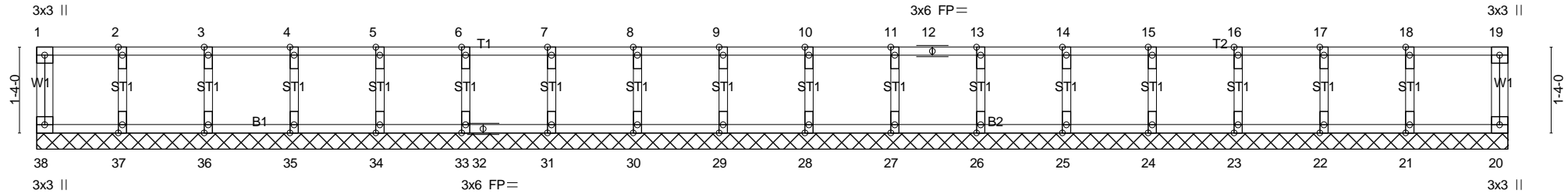
LOAD CASE(S) Standard

Job 2100199-2100199A	Truss F14E	Truss Type Floor Supported Gable	Qty 1	Ply 1	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
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84 Components, Dunn, NC 28334

8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 15:37:16 2021 Page 1
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Scale = 1:27.9



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.08	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.00	BC 0.02	Vert(LL) n/a - n/a 999		
BCLL 0.0	Lumber DOL 1.00	WB 0.03	Vert(CT) n/a - n/a 999		
BCDL 5.0	Rep Stress Incr YES	Matrix-R	Horz(CT) 0.00 20 n/a n/a		
	Code IRC2015/TPI2014			Weight: 100 lb	FT = 20%F, 11%E

LUMBER-

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

BRACING-

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

REACTIONS.

All bearings 22-10-4.
 (lb) - Max Grav All reactions 250 lb or less at joint(s) 38, 20, 37, 36, 35, 34, 33, 31, 30, 29, 28, 27, 26, 25, 24, 23, 22, 21

FORCES.

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

NOTES-

- As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- 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.
- Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

Job 2100199-2100199A	Truss F2	Truss Type Floor	Qty 1	Ply 1	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
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84 Components, Dunn, NC 28334

8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 15:36:55 2021 Page 1
ID:NMPehaEQ4zz9fQFsfDQ1J3zhw?Z-CwTYh41kS5U4xIUUcQaj30bkfweI?qavULlcd4zhuoM

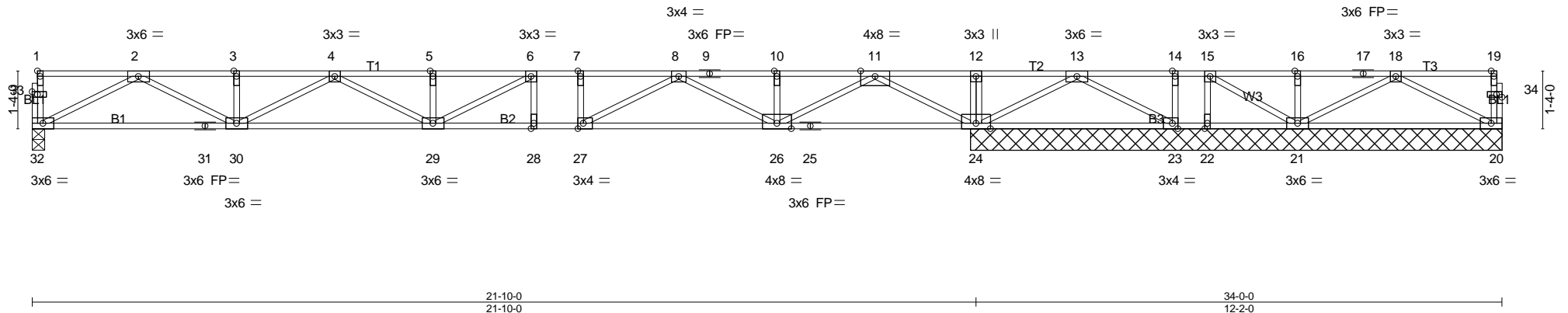


Plate Offsets (X,Y)-- [1:Edge,0-0-12], [23:0-1-8,Edge], [27:0-1-8,Edge], [33:0-1-8,0-0-12], [34:0-1-8,0-0-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	1-4-0	TC 0.84	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.00	BC 0.72	Vert(LL) -0.27 28-29 >965 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.69	Vert(CT) -0.37 28-29 >707 360		
BCDL 5.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.04 24 n/a n/a		
	Code IRC2015/TPI2014			Weight: 174 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-

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

REACTIONS.

All bearings 12-3-8 except (jt=length) 32=0-3-8.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) except 23=-371(LC 1)
Max Grav All reactions 250 lb or less at joint(s) 20, 22 except 32=656(LC 1), 24=1680(LC 1), 21=257(LC 3)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1898/0, 3-4=-1898/0, 4-5=-2506/0, 5-6=-2506/0, 6-7=-2181/0, 7-8=-2181/0, 8-9=-496/0, 9-10=-496/0, 10-11=-496/0, 11-12=0/2372, 12-13=0/2372
BOT CHORD 31-32=0/1126, 30-31=0/1126, 29-30=0/2334, 28-29=0/2181, 27-28=0/2181, 26-27=0/1446, 25-26=-782/0, 24-25=-782/0, 23-24=-1129/0
WEBS 2-32=-1265/0, 11-24=-1790/0, 2-30=0/875, 11-26=0/1448, 4-30=-494/0, 8-26=-1077/0, 8-27=0/862, 7-27=-252/0, 6-29=-94/530, 13-24=-1400/0, 13-23=0/1046

NOTES-

- Unbalanced floor live loads have been considered for this design.
- As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Two H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 23. 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.
- Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

Job 2100199-2100199A	Truss F3	Truss Type Floor	Qty 3	Ply 1	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
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84 Components, Dunn, NC 28334

8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 15:36:56 2021 Page 1
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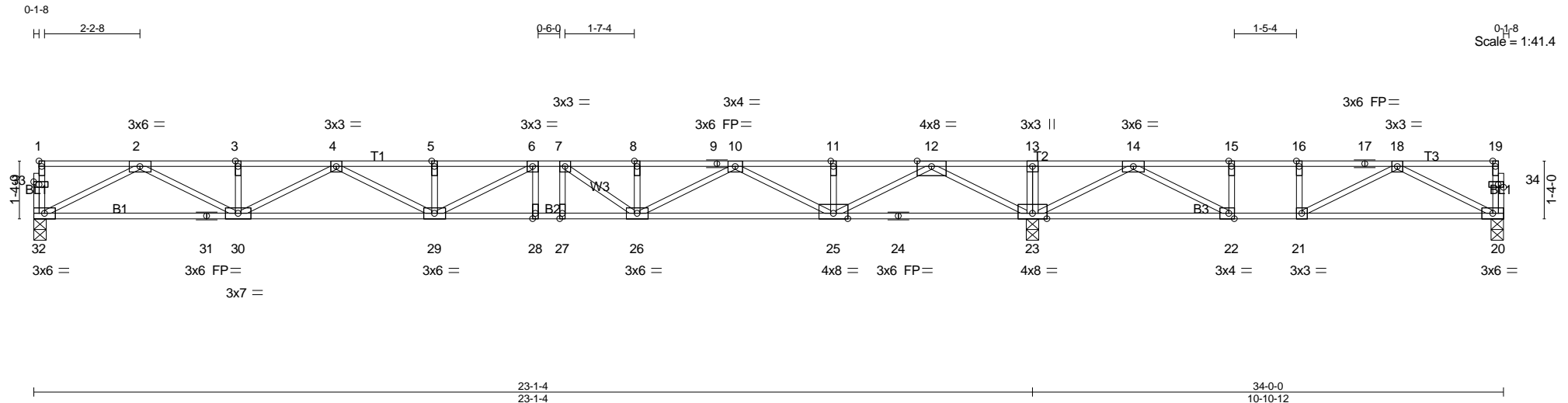


Plate Offsets (X,Y)-- [1:Edge,0-0-12], [22:0-1-8,Edge], [33:0-1-8,0-0-12], [34:0-1-8,0-0-12]					
LOADING (psf)	SPACING- 1-4-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.42	Vert(LL) -0.27 28-29 >999 480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.35	Vert(CT) -0.37 28-29 >743 360		
BCLL 0.0	Rep Stress Incr YES	WB 0.72	Horz(CT) 0.05 23 n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S			
				Weight: 173 lb	FT = 20%F, 11%E

LUMBER-
 TOP CHORD 2x4 SP DSS(flat)
 BOT CHORD 2x4 SP DSS(flat)
 WEBS 2x4 SP No.3(flat)

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

REACTIONS. (lb/size) 32=726/0-3-8 (min. 0-1-8), 20=152/0-3-8 (min. 0-1-8), 23=1588/0-3-8 (min. 0-1-8)
 Max Uplift20=-116(LC 3)
 Max Grav32=736(LC 10), 20=310(LC 4), 23=1588(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2203/0, 3-4=-2203/0, 4-5=-3095/0, 5-6=-3095/0, 6-7=-3010/0, 7-8=-2679/0, 8-9=-2679/0, 9-10=-2679/0, 10-11=-1049/0, 11-12=-1049/0, 12-13=0/2153, 13-14=0/2153, 14-15=-522/740, 15-16=-522/740, 16-17=-522/740, 17-18=-522/740
 BOT CHORD 31-32=0/1280, 30-31=0/1280, 29-30=0/2788, 28-29=0/3010, 27-28=0/3010, 26-27=0/3010, 25-26=0/2013, 24-25=-517/0, 23-24=-517/0, 22-23=-1395/51, 21-22=-740/522, 20-21=-271/460
 WEBS 2-32=-1438/0, 12-23=-1857/0, 2-30=0/1045, 12-25=0/1518, 4-30=-662/0, 10-25=-1122/0, 4-29=0/348, 10-26=0/784, 6-29=-219/366, 7-26=-572/0, 18-20=-515/305, 14-23=-1155/0, 18-21=-532/70, 14-22=0/992, 15-22=-349/0

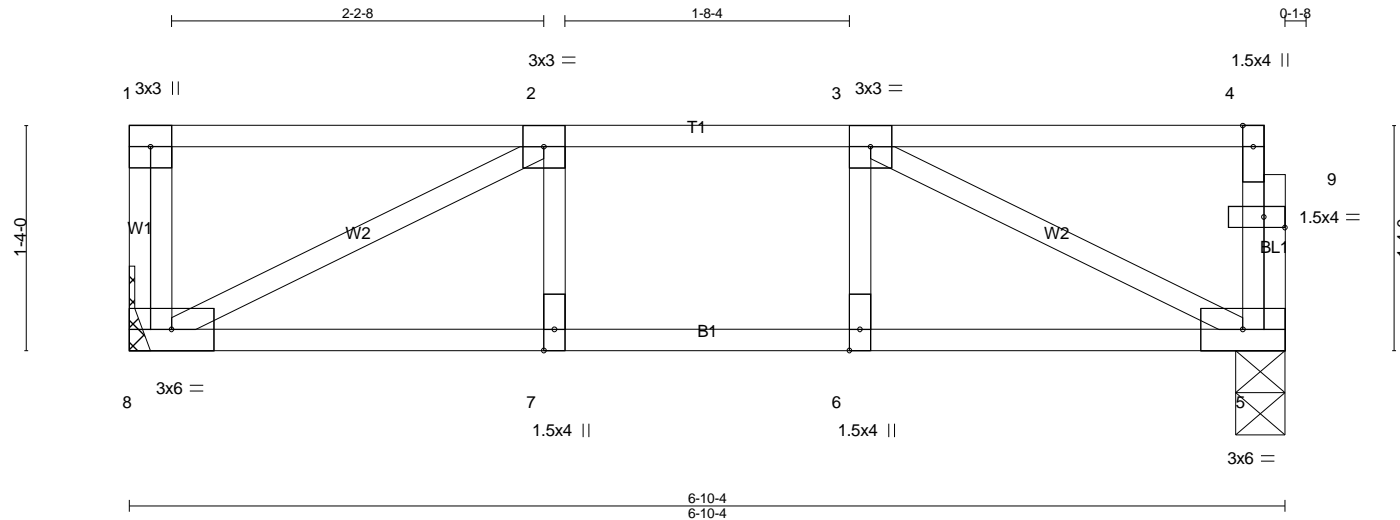
- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
 - 3) All plates are 1.5x4 MT20 unless otherwise indicated.
 - 4) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 20. This connection is for uplift only and does not consider lateral forces.
 - 5) 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.
 - 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 7) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

Job 2100199-2100199A	Truss F7	Truss Type Floor	Qty 2	Ply 1	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
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84 Components, Dunn, NC 28334

8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 15:37:03 2021 Page 1
ID:NMPehaEQ4zz9fQFsfDQ1J3zhw?Z-zTyaMp7laYVxv_5045jbOixGp8UNtap4KbE2vczhuoE



Scale = 1:13.7

Plate Offsets (X,Y)-- [9:0-1-8,0-0-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	1-4-0	TC 0.25	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.00	BC 0.20	Vert(LL) -0.02 7-8 >999 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.10	Vert(CT) -0.03 7-8 >999 360		
BCDL 5.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 5 n/a n/a		
	Code IRC2015/TPI2014			Weight: 37 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-

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

REACTIONS. (lb/size) 8=242/Mechanical, 5=238/0-3-8 (min. 0-1-8)

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

TOP CHORD 2-3=-332/0
BOT CHORD 7-8=0/332, 6-7=0/332, 5-6=0/332
WEBS 3-5=-368/0, 2-8=-372/0

NOTES-

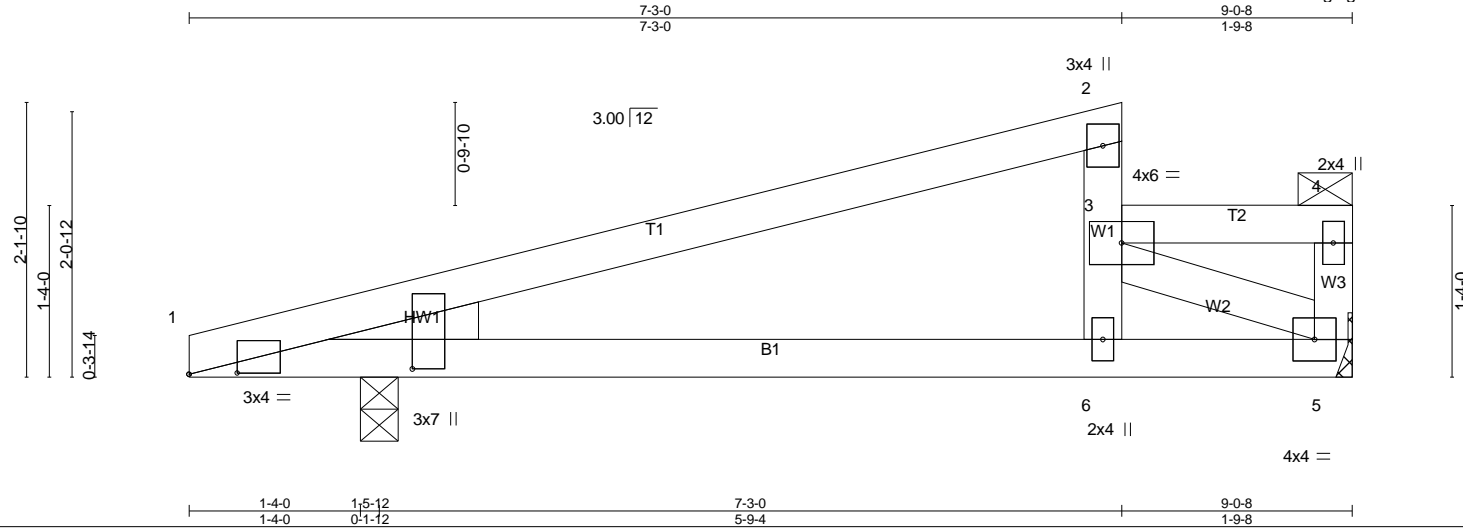
- 1) Unbalanced floor live loads have been considered for this design.
- 2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 3) Refer to girder(s) for truss to truss connections.
- 4) 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.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

Job 2100199-2100199A	Truss M1	Truss Type Half Hip	Qty 5	Ply 1	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
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8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 15:06:46 2021 Page 1
ID:NMPehaEQ4zz9fQFsfDQ1J3zhw?Z-gvfgOX80UHalPlho7?dVFXAc?iK8fpseVObOdQzhvEd



Scale = 1:17.9

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.79	Vert(LL)	0.03	6-11	>999	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.27	Vert(CT)	-0.05	6-11	>999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.11	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS						
	Code IRC2015/TPI2014						Weight: 35 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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.); 3-6, 3-4.
 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) 5=372/Mechanical, 1=429/0-3-8 (min. 0-1-8)

Max Horz 1=86(LC 12)
 Max Uplift1=-62(LC 8)
 Max Grav5=392(LC 2), 1=429(LC 1)

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

TOP CHORD 1-2=-380/98
 BOT CHORD 1-6=-142/338, 5-6=-148/484
 WEBS 3-5=-507/148

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-0-0 to 8-10-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 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.
- One H2.5A 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.
- 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	120 BEECHLEAF - SOUTHEASTERN
2100199-2100199A	M1	Half Hip	5	1	Job Reference (optional)

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8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 15:06:46 2021 Page 2
 ID:NMPehaEQ4zz9fQFsfDQ1J3zhw?Z-gvfg0X80UHalPlho7?dVFXAc?iK8fpseVObOdQzhvEd

LOAD CASE(S) Standard

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

Vert: 1-2=-60, 3-4=-110(F=-50), 5-7=-20

Job	Truss	Truss Type	Qty	Ply	120 BEECHLEAF - SOUTHEASTERN
2100199-2100199A	M1E	Half Hip Supported	1	1	Job Reference (optional)

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8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 15:06:51 2021 Page 2
ID:NMPehaEQ4zz9fQFsfDQ1J3zhw?Z-1sTZ3EC9lpC2WWamwYCYgybuZpj3lK4jNfgl9JezhvEY

NOTES-

13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

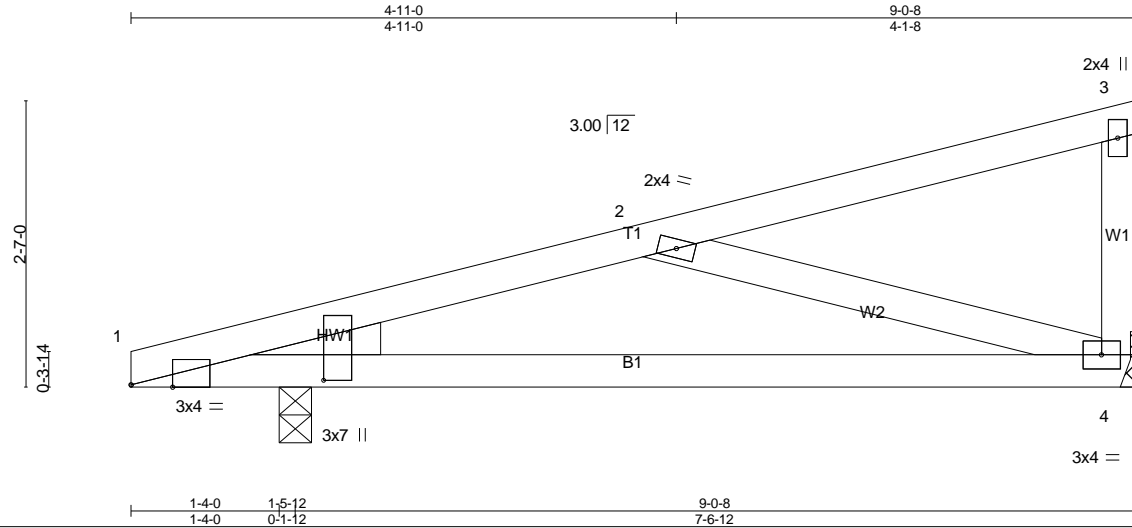
Uniform Loads (plf)

Vert: 1-3=-60, 4-5=-110(F=-50), 1-6=-20

Job 2100199-2100199A	Truss M2	Truss Type Monopitch	Qty 5	Ply 1	120 BEECHLEAF - SOUTHEASTERN
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8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 15:06:40 2021 Page 1
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Scale = 1:20.8

Plate Offsets (X,Y)-- [1:0-4-8,Edge], [1:0-0-8,1-8-13]

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 0.26	Vert(LL)	-0.05	4-9	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.38	Vert(CT)	-0.11	4-9	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.17	Horz(CT)	0.01	4	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS						Weight: 38 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

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.

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

REACTIONS. (lb/size) 4=293/Mechanical, 1=419/0-3-8 (min. 0-1-8)

Max Horz 1=91(LC 11)
 Max Uplift4=-60(LC 12), 1=-71(LC 8)

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

TOP CHORD 1-2=-495/215
 BOT CHORD 1-4=-267/469
 WEBS 2-4=-453/246

NOTES-

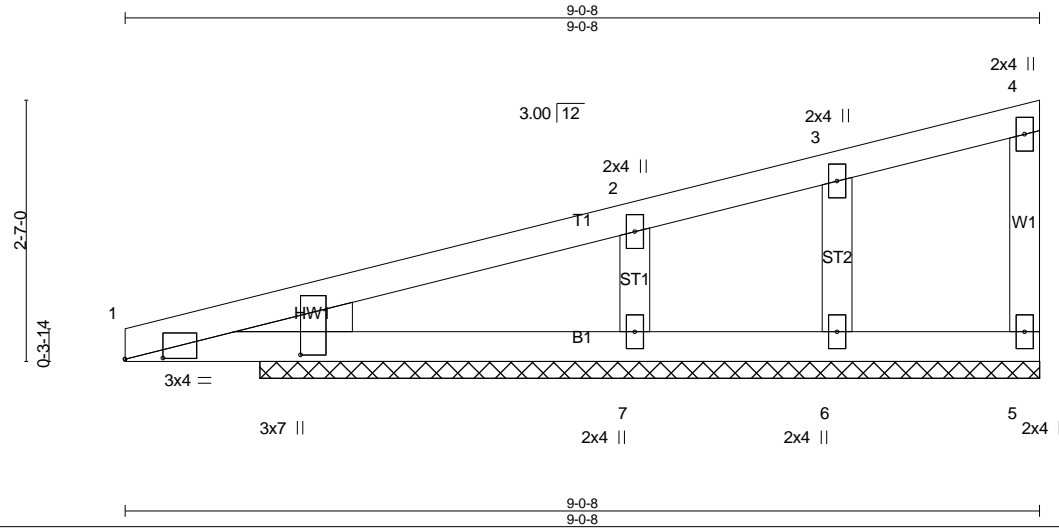
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 60 lb uplift at jt(s) 1.
- 6) One H2.5A 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.
- 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 2100199-2100199A	Truss M2E	Truss Type Monopitch Supported Gable	Qty 1	Ply 1	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
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8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 15:14:08 2021 Page 1
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Scale = 1:22.8

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.30	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.20	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.06	Horz(CT)	-0.00	5	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S						
	Code IRC2015/TPI2014						Weight: 36 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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6'-0" oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10'-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 7-8-8.
 (lb) - Max Horz 1=92(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) 5, 6, 7, 1
 Max Grav All reactions 250 lb or less at joint(s) 5, 6, 1 except 7=425(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 2-7=-305/210

NOTES-

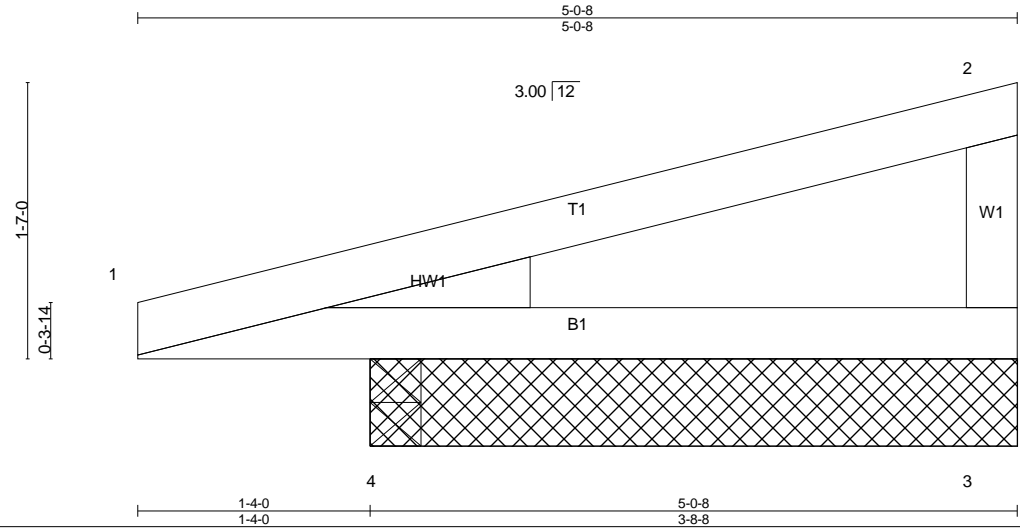
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable studs spaced at 2'-0" oc.
- 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" tall by 2'-0" wide will fit between the bottom chord and any other members.
- 6) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 5, 6, and 7. This connection is for uplift only and does not consider lateral forces.
- 7) 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.
- 8) Non Standard bearing condition. Review required.
- 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 2100199-2100199A	Truss M3	Truss Type Monopitch Structural Gable	Qty 1	Ply 1	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
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84 Components, Dunn, NC 28334

8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 14:20:55 2021 Page 1
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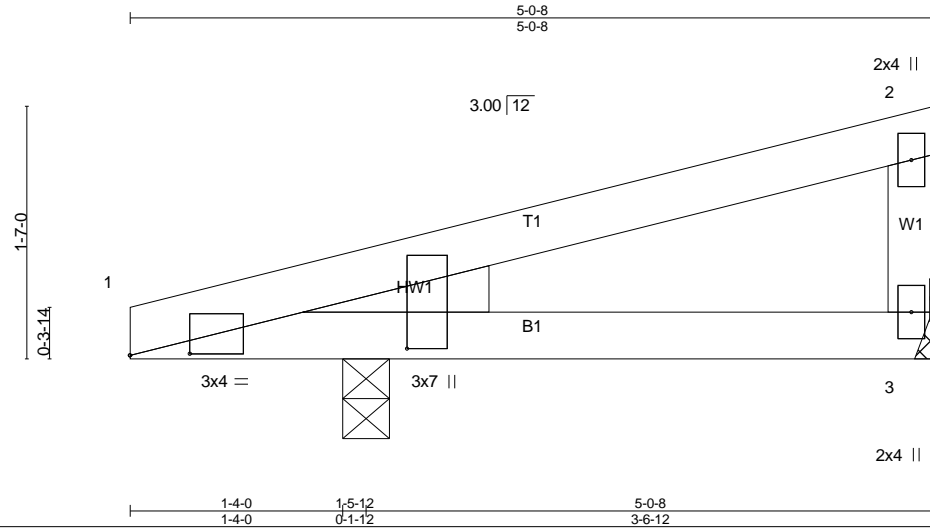
Scale = 1:13.2

LOADING (psf)	SPACING- 2-0-0
TCLL 20.0	Plate Grip DOL
TCDL 10.0	Lumber DOL
BCLL 0.0 *	Rep Stress Incr YES
BCDL 10.0	Code IRC2015/TPI2014

Job 2100199-2100199A	Truss M4	Truss Type Monopitch	Qty 5	Ply 1	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
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84 Components, Dunn, NC 28334

8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 15:06:35 2021 Page 1
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Scale = 1:14.4

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.13	Vert(LL)	-0.01	3-8	>999	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.10	Vert(CT)	-0.01	3-8	>999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Horz(CT)	0.00	1	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MP						
	Code IRC2015/TPI2014						Weight: 19 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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-0-8 oc purlins, except end verticals.
 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) 3=123/Mechanical, 1=269/0-3-8 (min. 0-1-8)

Max Horz 1=50(LC 11)
 Max Uplift3=-27(LC 12), 1=-45(LC 8)

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

NOTES-

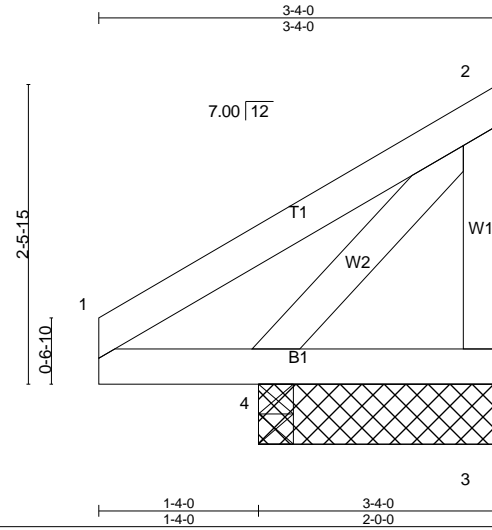
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 27 lb uplift at joint 3.
- 6) One H2.5A 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.
- 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 2100199-2100199A	Truss M5	Truss Type Monopitch Structural Gable	Qty 2	Ply 1	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
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8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 14:20:55 2021 Page 1
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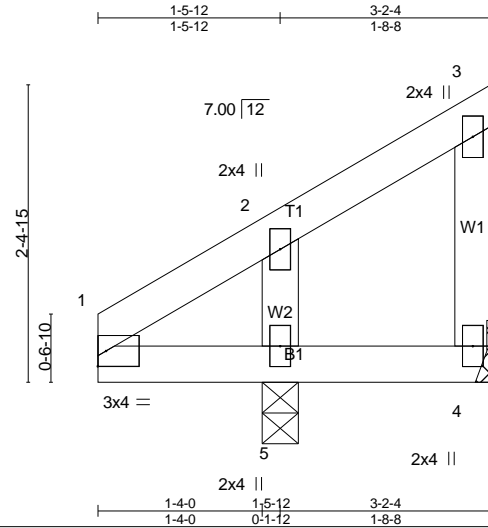
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LOADING (psf)	SPACING-	2-0-0
TCLL 20.0	Plate Grip DOL	
TCDL 10.0	Lumber DOL	
BCLL 0.0 *	Rep Stress Incr	YES
BCDL 10.0	Code	IRC2015/TPI2014

Job 2100199-2100199A	Truss M6	Truss Type Monopitch	Qty 5	Ply 1	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
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84 Components, Dunn, NC 28334

8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 15:05:08 2021 Page 1
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Scale = 1:18.7

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 0.10	Vert(LL) 0.00 5 >999 240	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.09	Vert(CT) 0.00 4-5 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.03	Horz(CT) 0.00 4 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MP		Weight: 14 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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-2-4 oc purlins, except end verticals.
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) 4=6/Mechanical, 5=237/0-3-8 (min. 0-1-8)
Max Horz 5=73(LC 11)
Max Uplift 4=-48(LC 9), 5=-18(LC 12)
Max Grav 4=47(LC 10), 5=237(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) 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; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 48 lb uplift at joint 4.
- 6) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 5. 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.

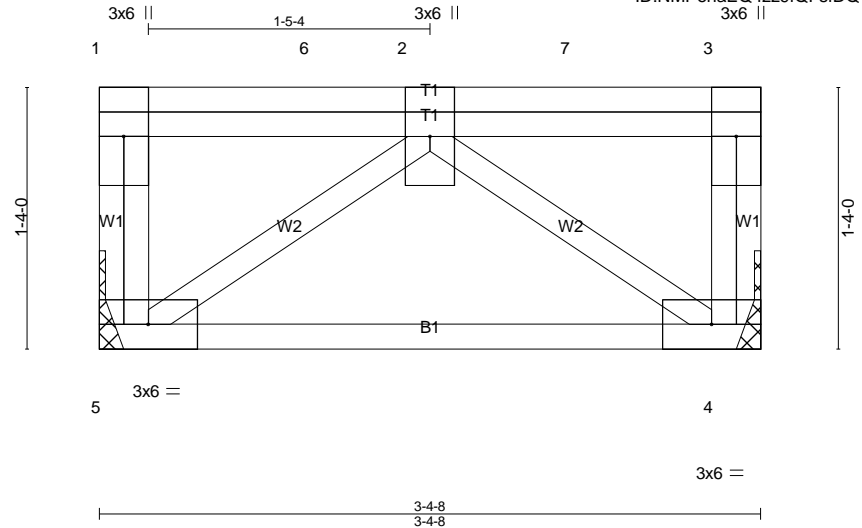
LOAD CASE(S) Standard

Job 2100199-2100199A	Truss F6	Truss Type FLOOR GIRDER	Qty 1	Ply 1	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
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8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 15:37:02 2021 Page 1

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LOADING (psf)	SPACING-	1-4-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.15	Vert(LL)	0.00	5	****	MT20	197/144
TCDL 10.0	Lumber DOL	1.00	BC 0.14	Vert(CT)	-0.01	4-5	>999		
BCLL 0.0	Rep Stress Incr	NO	WB 0.08	Horz(CT)	0.00	4	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-P						
								Weight: 26 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
 WEBS 2x4 SP No.3(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-4-8 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 5=291/Mechanical, 4=333/Mechanical

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

BOT CHORD 4-5=0/281
 WEBS 2-5=-348/0, 2-4=-348/0

NOTES-

- As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- Refer to girder(s) for truss to truss connections.
- 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.
- Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 198 lb down at 1-2-4, and 198 lb down at 2-6-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
 Uniform Loads (plf)
 Vert: 4-5=-7, 1-3=-67
 Concentrated Loads (lb)
 Vert: 6=-198(B) 7=-198(B)

Job 2100199-2100199A	Truss F4	Truss Type FLOOR GIRDER	Qty 1	Ply 1	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
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8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 15:36:58 2021 Page 1
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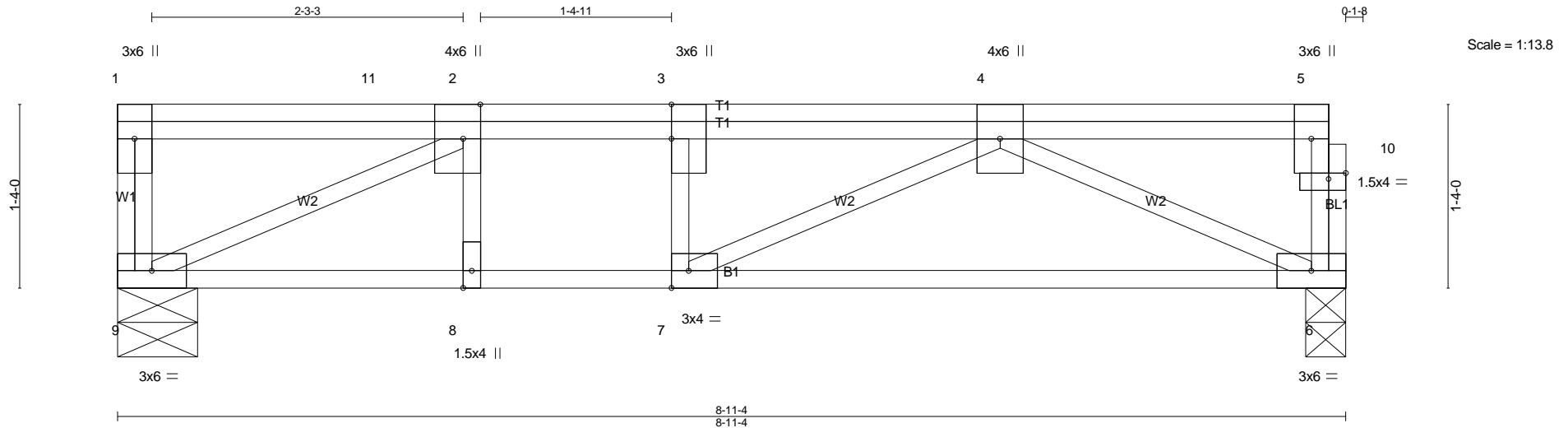


Plate Offsets (X,Y)-- [2:0-3-0,Edge], [3:0-3-0,0-0-0], [7:0-1-8,Edge], [10:0-1-8,0-0-8]

LOADING (psf)	SPACING-	1-4-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.37	Vert(LL)	-0.02	8-9	>999	MT20	197/144
TCDL 10.0	Lumber DOL	1.00	BC 0.35	Vert(CT)	-0.04	6-7	>999		
BCLL 0.0	Rep Stress Incr	NO	WB 0.25	Horz(CT)	0.01	6	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 59 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
 WEBS 2x4 SP No.3(flat)

BRACING-

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

REACTIONS. (lb/size) 9=547/0-7-0 (min. 0-1-8), 6=375/0-3-8 (min. 0-1-8)

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

TOP CHORD 2-3=-873/0, 3-4=-873/0
 BOT CHORD 8-9=0/873, 7-8=0/873, 6-7=0/621
 WEBS 4-6=-685/0, 2-9=-963/0, 4-7=0/376

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 3) 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.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) CAUTION, Do not erect truss backwards.
- 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 324 lb down at 1-11-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
 Uniform Loads (plf)
 Vert: 6-9=-7, 1-5=-67

Job	Truss	Truss Type	Qty	Ply	120 BEECHLEAF - SOUTHEASTERN
2100199-2100199A	F4	FLOOR GIRDER	1	1	Job Reference (optional)

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8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 15:36:58 2021 Page 2
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LOAD CASE(S) Standard
 Concentrated Loads (lb)
 Vert: 11=-289(B)

Job 2100199-2100199A	Truss F5	Truss Type FLOOR GIRDER	Qty 1	Ply 1	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
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84 Components, Dunn, NC 28334

8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 15:37:00 2021 Page 1
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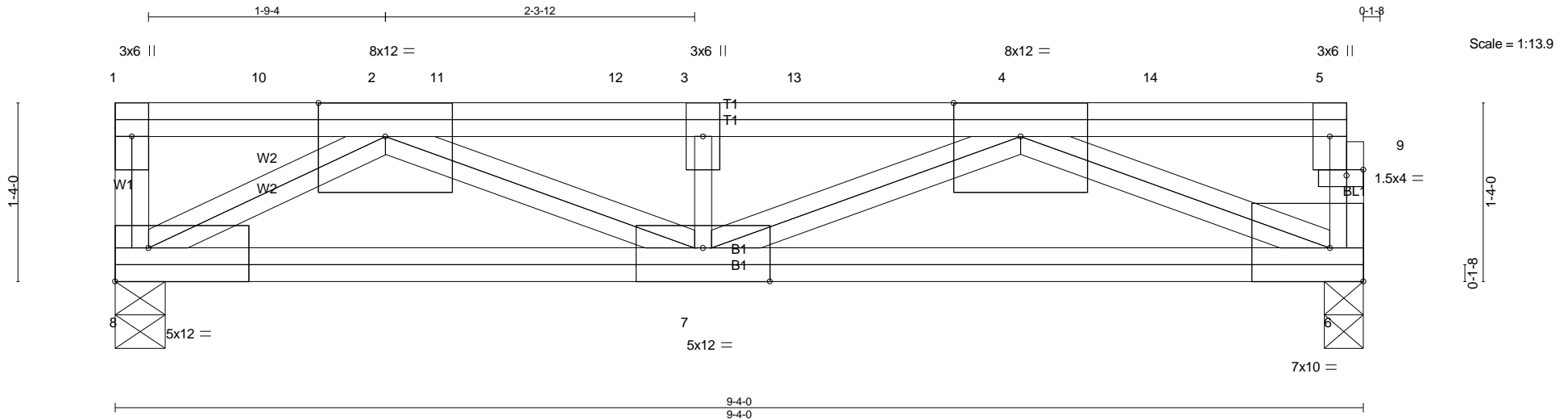


Plate Offsets (X,Y)-- [6:Edge,0-3-0], [7:0-6-0,Edge], [8:Edge,0-3-0], [9:0-1-8,0-0-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	1-4-0	TC 0.75	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.00	BC 0.75	Vert(LL) -0.08 7 >999 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.56	Vert(CT) -0.11 7 >999 360		
BCDL 5.0	Rep Stress Incr NO	Matrix-S	Horz(CT) 0.03 6 n/a n/a		
	Code IRC2015/TPI2014			Weight: 89 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
 WEBS 2x4 SP No.3(flat)

BRACING-

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

REACTIONS.

(lb/size) 8=2522/0-4-8 (min. 0-1-11), 6=2286/0-3-8 (min. 0-1-9)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 6-9=-291/0, 5-9=-291/0, 2-11=-5560/0, 11-12=-5560/0, 3-12=-5560/0, 3-13=-5560/0, 4-13=-5560/0
 BOT CHORD 7-8=0/4056, 6-7=0/4451
 WEBS 4-6=-4853/0, 4-7=0/1218, 3-7=-1191/0, 2-7=0/1657, 2-8=-4650/0

NOTES-

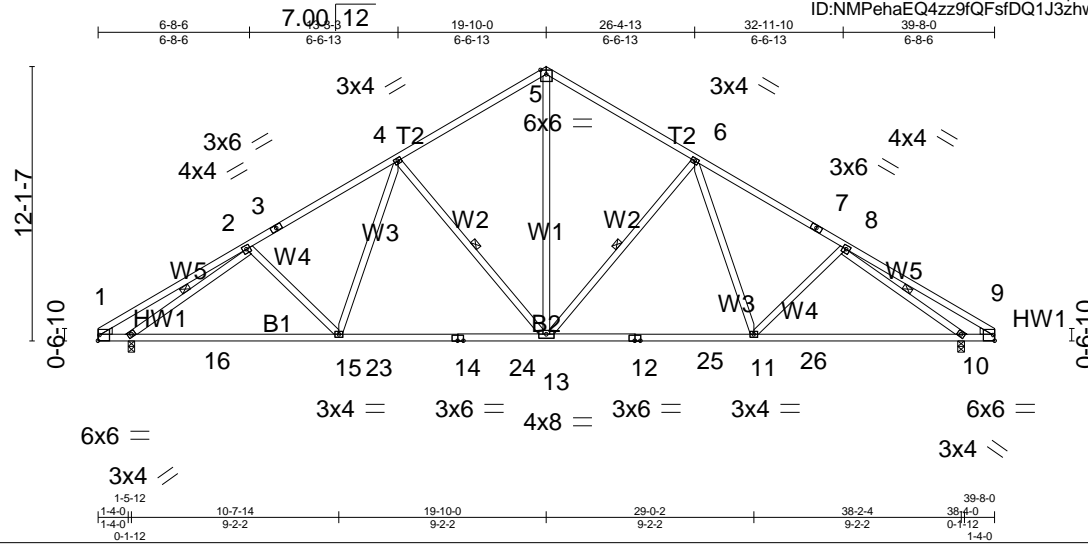
- 1) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 2) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 4) CAUTION, Do not erect truss backwards.
- 5) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 650 lb down at 1-2-4, 247 lb down at 2-4-0, 650 lb down at 2-6-4, 650 lb down at 3-10-4, 650 lb down at 5-2-4, and 650 lb down at 6-6-4, and 650 lb down at 7-10-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 6) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
 Uniform Loads (plf)
 Vert: 6-8=-7, 1-5=-67
 Concentrated Loads (lb)
 Vert: 4=-650(B) 2=-247(F) 10=-650(B) 11=-650(B) 12=-650(B) 13=-650(B) 14=-650(B)

Job 2100199-2100199A	Truss A	Truss Type Common	Qty 10	Ply 1	120 BEECHLEAF - SOUTHEASTERN
84 Components, Dunn, NC 28334					Job Reference (optional)

8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 14:27:44 2021 Page 1
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Scale = 1:101.9

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 0.56	Vert(LL) -0.25 13-15 >999 240	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.84	Vert(CT) -0.42 13-15 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.65	Horz(CT) 0.09 10 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS		Weight: 236 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
 WEDGE
 Left: 2x4 SP No.3 , Right: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-10-9 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 6-13, 4-13, 2-16, 8-10

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

REACTIONS. (lb/size) 16=1587/0-3-8 (min. 0-2-8), 10=1587/0-3-8 (min. 0-2-8)
 Max Horz 16=286(LC 11)
 Max Uplift 16=-182(LC 12), 10=-182(LC 13)
 Max Grav 16=1594(LC 19), 10=1594(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-348/14, 2-3=-2027/358, 3-4=-1876/395, 4-5=-1525/401, 5-6=-1525/401, 6-7=-1876/395, 7-8=-2027/358, 8-9=-348/14
 BOT CHORD 1-16=0/269, 15-16=-330/1911, 15-23=-183/1726, 14-23=-183/1726, 14-24=-183/1726, 13-24=-183/1726, 13-25=-114/1580,
 12-25=-114/1580, 12-26=-114/1580, 11-26=-114/1580, 10-11=-229/1697, 9-10=0/269
 WEBS 5-13=-241/1125, 6-13=-638/265, 6-11=-24/355, 4-13=-638/265, 4-15=-24/355, 2-16=-1961/413, 8-10=-1961/413

NOTES-

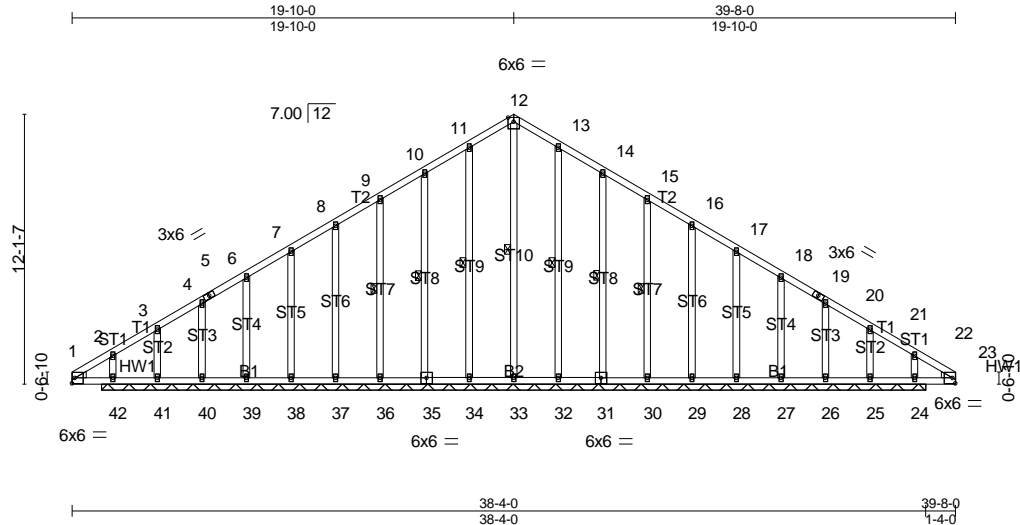
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) 16 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 2100199-2100199A	Truss AE	Truss Type Common Supported Gable	Qty 2	Ply 1	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
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84 Components, Dunn, NC 28334

8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 14:32:46 2021 Page 1
ID: NMPehaEQ4zz9fQFsfdQ1J3zhw?Z-PROTs_SOvUYCgFkkdZ06aLh8hM5cg9IMPOQS1gzhvkV



Scale = 1:103.5

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 0.16	Vert(LL) n/a - n/a 999	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.22	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.20	Horz(CT) 0.01 24 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 300 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 10-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
 WEBS 1 Row at midpt 12-33, 11-34, 10-35, 9-36, 13-32, 14-31, 15-30

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

REACTIONS.

All bearings 37-0-0.
 (lb) - Max Horz 42=-292(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 34, 35, 36, 37, 38, 39, 40, 32, 31, 30, 29, 28, 27, 26 except 41=-183(LC 12), 42=-154(LC 8), 25=-166(LC 13), 24=-120(LC 9)
 Max Grav All reactions 250 lb or less at joint(s) 34, 35, 36, 37, 38, 39, 40, 32, 31, 30, 29, 28, 27, 26, 25 except 33=308(LC 13), 41=264(LC 10), 42=319(LC 20), 24=293(LC 19)

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

TOP CHORD 8-9=-174/264, 9-10=-214/293, 10-11=-257/325, 11-12=-292/363, 12-13=-292/363, 13-14=-257/322, 14-15=-214/274
 WEBS 12-33=-292/173

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) 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; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 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.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 34, 35, 36, 37, 38, 39, 40, 41, 42, 32, 31, 30, 29, 28, 27, 26, 25, and 24. This connection is for uplift only and does not consider lateral forces.
- Non Standard bearing condition. Review required.
- 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	120 BEECHLEAF - SOUTHEASTERN
2100199-2100199A	AE	Common Supported Gable	2	1	Job Reference (optional)

84 Components, Dunn, NC 28334

8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 14:32:46 2021 Page 2
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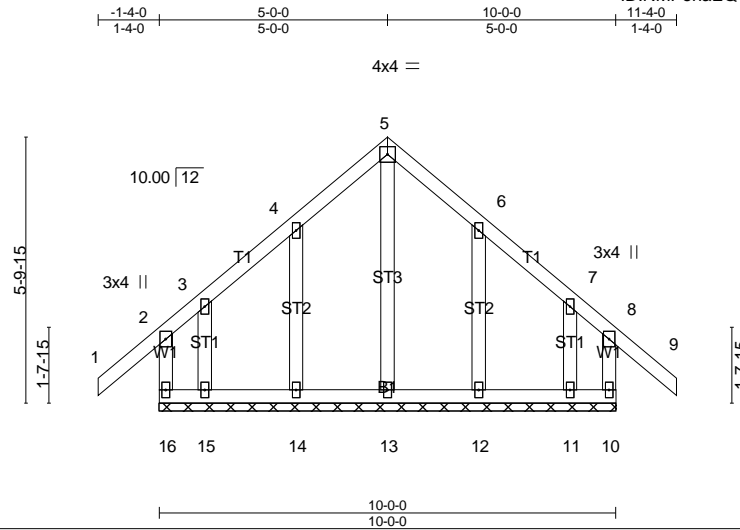
LOAD CASE(S) Standard

Job 2100199-2100199A	Truss BE	Truss Type Common Supported Gable	Qty 1	Ply 1	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
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8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 14:32:54 2021 Page 1

ID:NMPehaEQ4zz9fQFsfDQ1J3zhw?Z-A_tUYjYPoyZ4dTLG5E9_u10WlbsOYodYFGMtJCzhvK



Scale = 1:50.5

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.18	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.10	Vert(LL) -0.01 9 n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.12	Vert(CT) -0.01 9 n/r 90		
BCDL 10.0	Rep Stress Incr YES	Matrix-R	Horz(CT) -0.00 10 n/a n/a		
	Code IRC2015/TPI2014			Weight: 68 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

BRACING-

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

All bearings 10-0-0.
 (lb) - Max Horz 16=-183(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 14, 12 except 16=-171(LC 8), 10=-159(LC 9), 15=-153(LC 9), 11=-145(LC 8)
 Max Grav All reactions 250 lb or less at joint(s) 16, 10, 13, 14, 15, 12, 11

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

NOTES-

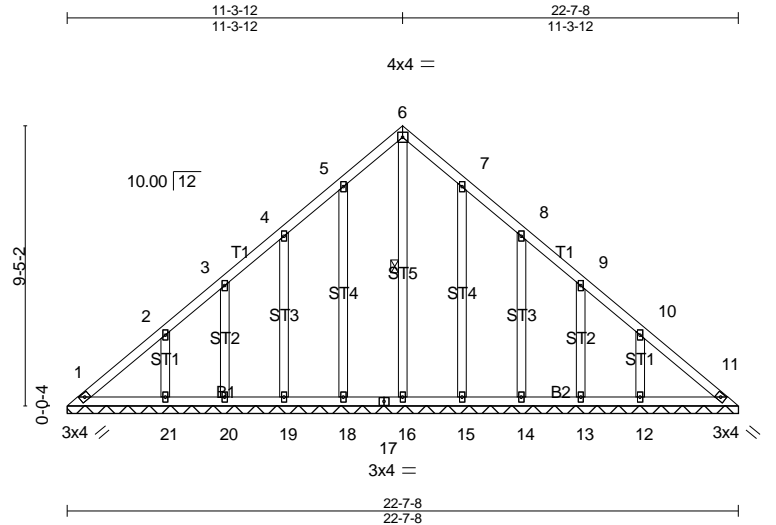
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 16, 10, 14, 15, 12, and 11. This connection is for uplift only and does not consider lateral forces.
- 11) 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 2100199-2100199A	Truss V1	Truss Type GABLE	Qty 1	Ply 1	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
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84 Components, Dunn, NC 28334

8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 14:25:48 2021 Page 1
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Scale = 1:77.7

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 0.10	Vert(LL) n/a - n/a 999	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.06	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.15	Horz(CT) 0.01 11 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 145 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

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.
WEBS 1 Row at midpt 6-16

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

REACTIONS. All bearings 22-7-8.
(lb) - Max Horz 1=225(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 1, 11, 18, 19, 20, 15, 14, 13 except 21=-124(LC 12), 12=-124(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 11, 16, 18, 19, 20, 15, 14, 13 except 21=263(LC 19), 12=263(LC 20)

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

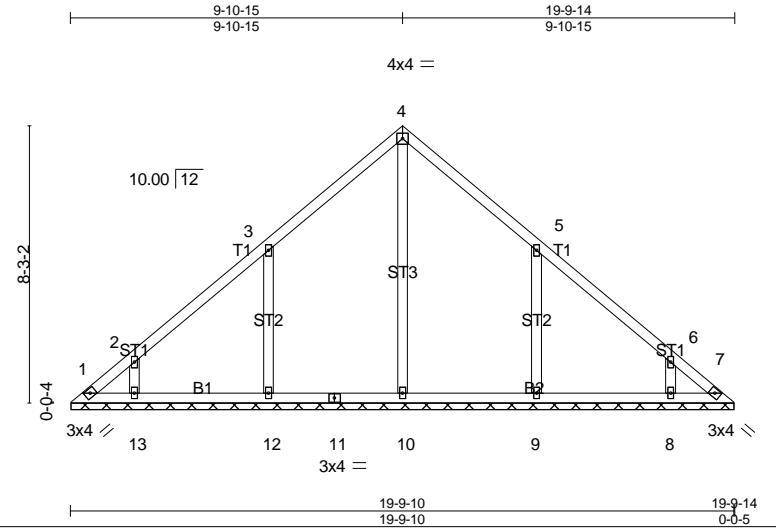
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - All plates are 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.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1, 11, 18, 19, 20, 21, 15, 14, 13, and 12. 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 2100199-2100199A	Truss V2	Truss Type Valley	Qty 1	Ply 1	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
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84 Components, Dunn, NC 28334

8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 14:26:10 2021 Page 1
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Scale = 1:68.7

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 0.20	Vert(LL) n/a - n/a 999	MT20	197/144
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 0.21	Horz(CT) 0.00 7 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 94 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

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 19-9-5.
 (lb) - Max Horz 1=-196(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 7 except 12=-187(LC 12), 13=-132(LC 12), 9=-187(LC 13), 8=-133(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 10=387(LC 22), 12=442(LC 19), 13=273(LC 19), 9=442(LC 20), 8=273(LC 20)

FORCES.

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

WEBS 3-12=-311/237, 5-9=-311/236

NOTES-

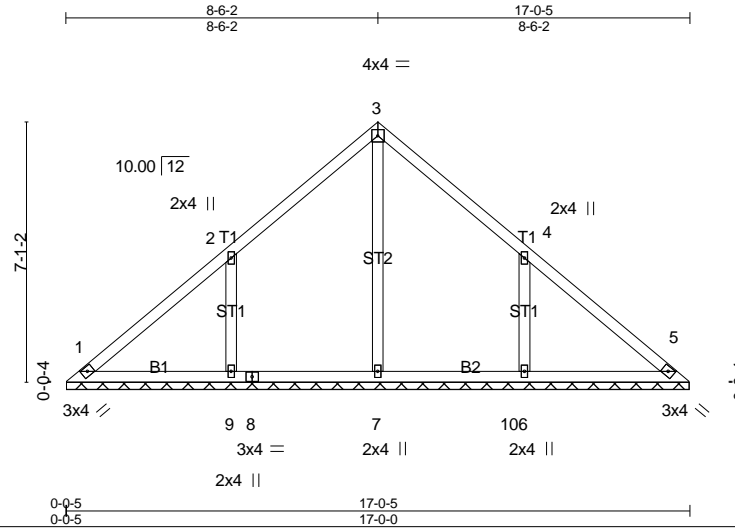
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1, 7, 12, 13, 9, 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 2100199-2100199A	Truss V3	Truss Type Valley	Qty 1	Ply 1	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
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8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 14:26:24 2021 Page 1
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Scale = 1:62.9

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 0.39	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.30	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.14	Horz(CT) 0.00 5 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 76 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 16-11-11.
(lb) - Max Horz 1=-167(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 1 except 9=-206(LC 12), 6=-206(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=364(LC 22), 9=464(LC 19), 6=466(LC 20)

FORCES.

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

WEBS

2-9=-336/251, 4-6=-336/251

NOTES-

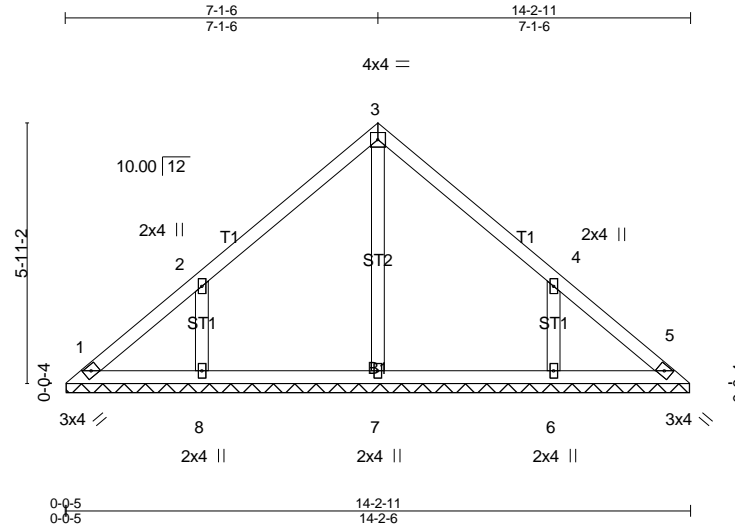
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1, 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 2100199-2100199A	Truss V4	Truss Type Valley	Qty 1	Ply 1	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
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8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 14:26:35 2021 Page 1
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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 0.30	Vert(LL) n/a - n/a 999	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.12	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.10	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.2 or 2x4 SPF No.2
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 14-2-2.
(lb) - Max Horz 1=-138(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=-173(LC 12), 6=-173(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=349(LC 19), 6=349(LC 20)

FORCES.

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

WEBS 2-8=-285/214, 4-6=-285/214

NOTES-

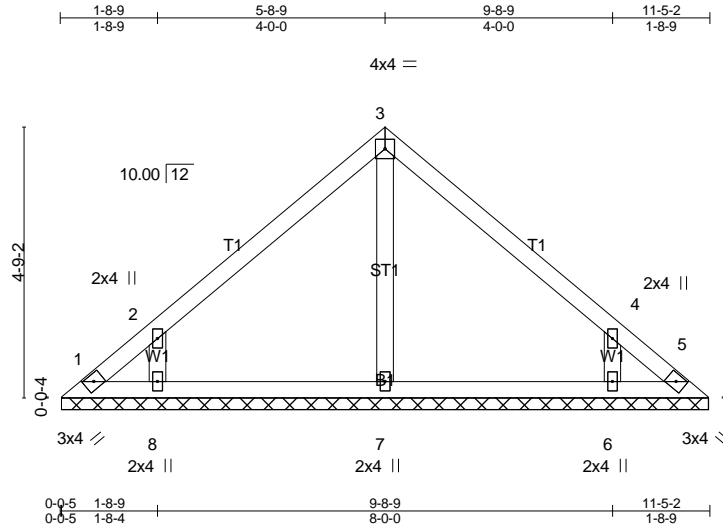
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1, 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 2100199-2100199A	Truss V5	Truss Type Valley	Qty 1	Ply 1	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
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8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 14:26:59 2021 Page 1
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Scale = 1:40.5

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 0.31	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.21	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.06	Horz(CT) 0.00 5 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 46 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 11-4-8.
(lb) - Max Horz 1=109(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-166(LC 12), 6=-166(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=326(LC 19), 6=326(LC 20)

FORCES.

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

WEBS 2-8=-280/213, 4-6=-280/213

NOTES-

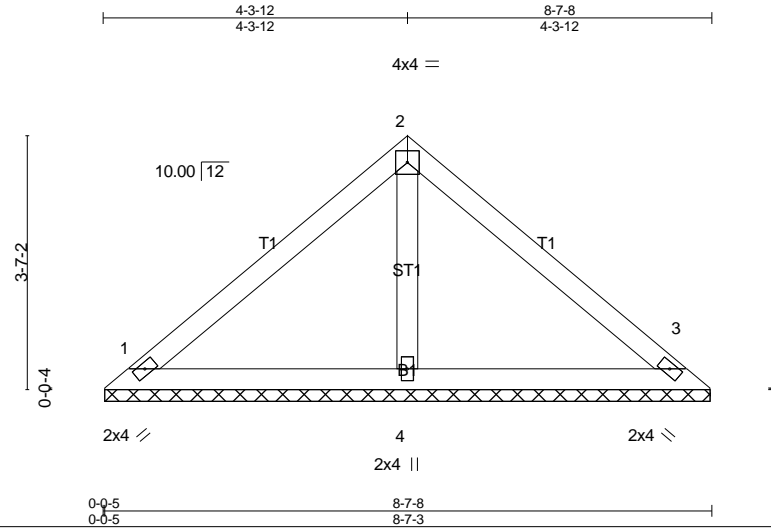
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1, 5, 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 2100199-2100199A	Truss V6	Truss Type Valley	Qty 1	Ply 1	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
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84 Components, Dunn, NC 28334

8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 14:27:05 2021 Page 1
ID:NMPehaEQ4zz9fQFsfDQ1J3zhw?Z-uqIYINKVCjbbGrAB8RP8FR3olviEHZMA?SKvZxzhvpq



Scale = 1:32.6

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.50	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.26	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 3 n/a n/a		
	Code IRC2015/TPI2014			Weight: 32 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=178/8-6-14 (min. 0-1-8), 3=178/8-6-14 (min. 0-1-8), 4=270/8-6-14 (min. 0-1-8)
Max Horz 1=-81(LC 8)
Max Uplift1=-37(LC 13), 3=-47(LC 13)

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

NOTES-

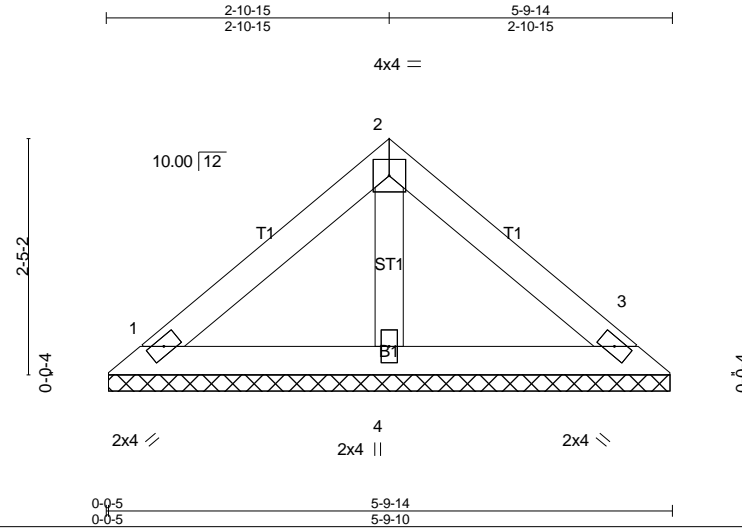
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 H2.5A 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 2100199-2100199A	Truss V7	Truss Type Valley	Qty 1	Ply 1	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
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84 Components, Dunn, NC 28334

8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 14:27:09 2021 Page 1
ID:NMPehaEQ4zz9fQFsfDQ1J3zhw?Z-mcX38IN?Gx50kSTzNHT4PHEX9W6aDnhmw4I6iizhvp



Scale = 1:23.7

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 0.19	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.11	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.02	Horz(CT) 0.00 3 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P		Weight: 21 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 5-9-14 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) 1=114/5-9-5 (min. 0-1-8), 3=114/5-9-5 (min. 0-1-8), 4=173/5-9-5 (min. 0-1-8)
Max Horz 1=-52(LC 8)
Max Uplift1=-24(LC 13), 3=-30(LC 13)

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

NOTES-

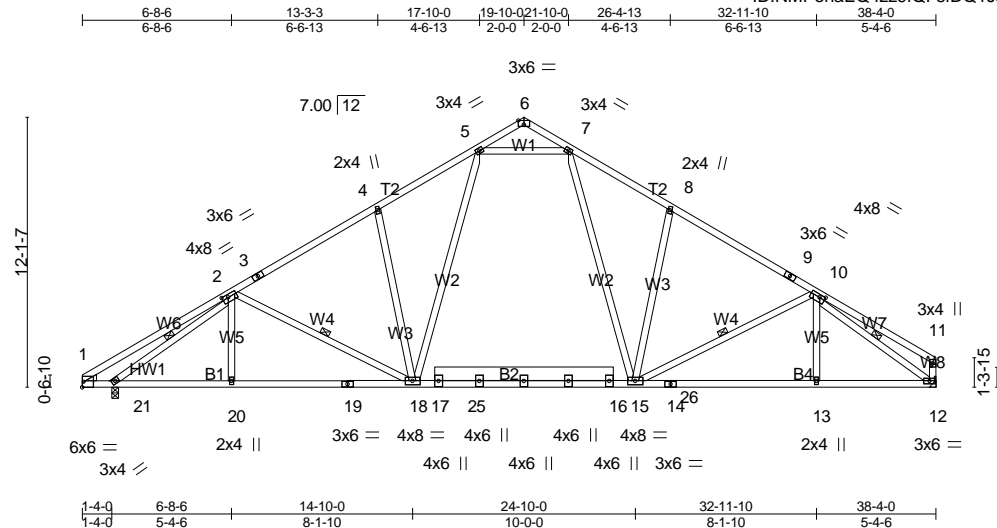
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 H2.5A 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 2100199-2100199A	Truss A2	Truss Type ROOF TRUSS	Qty 4	Ply 1	120 BEECHLEAF - SOUTHEASTERN
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84 Components, Dunn, NC 28334

8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 14:32:25 2021 Page 1
ID:NMPeHaEQ4zz9fQsfDQ1J3zhw?Z-WOdXSoBDr1vBf0diue8BDwJMKvndFaTHaFrqnOzhvkq



Scale = 1:103.5

Plate Offsets (X,Y)-- [2:0-3-4,0-1-8], [6:0-3-0,Edge], [10:0-3-0,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.90	Vert(LL)	-0.33	18-20	>999	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.87	Vert(CT)	-0.48	18-20	>916		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.56	Horz(CT)	0.08	12	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS						
	Code IRC2015/TPI2014						Weight: 268 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*
 B3: 2x8 SP No.2
 WEBS 2x4 SP No.3
 WEDGE
 Left: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 2-18, 10-15, 10-12, 2-21

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

REACTIONS. (lb/size) 12=1475/Mechanical, 21=1580/0-3-8 (min. 0-2-8)
 Max Horz 21=304(LC 11)
 Max Uplift 12=-162(LC 13), 21=-182(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1832/344, 3-4=-1744/380, 4-5=-1790/471, 7-8=-1780/471, 8-9=-1736/379, 9-10=-1823/344
 BOT CHORD 20-21=-302/1893, 19-20=-302/1893, 18-19=-302/1893, 17-18=-67/1360, 17-25=-67/1360, 25-26=-67/1360, 16-26=-67/1360,
 15-16=-67/1360, 14-15=-239/1656, 13-14=-239/1656, 12-13=-239/1656
 WEBS 2-20=0/275, 2-18=-285/162, 4-18=-411/263, 5-18=-210/820, 7-15=-206/798, 8-15=-412/266, 10-13=0/285, 10-12=-1962/257,
 2-21=-2006/286, 5-7=-1238/405

NOTES-

- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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) 12=162.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 21. 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	120 BEECHLEAF - SOUTHEASTERN
2100199-2100199A	A2	ROOF TRUSS	4	1	Job Reference (optional)

84 Components, Dunn, NC 28334

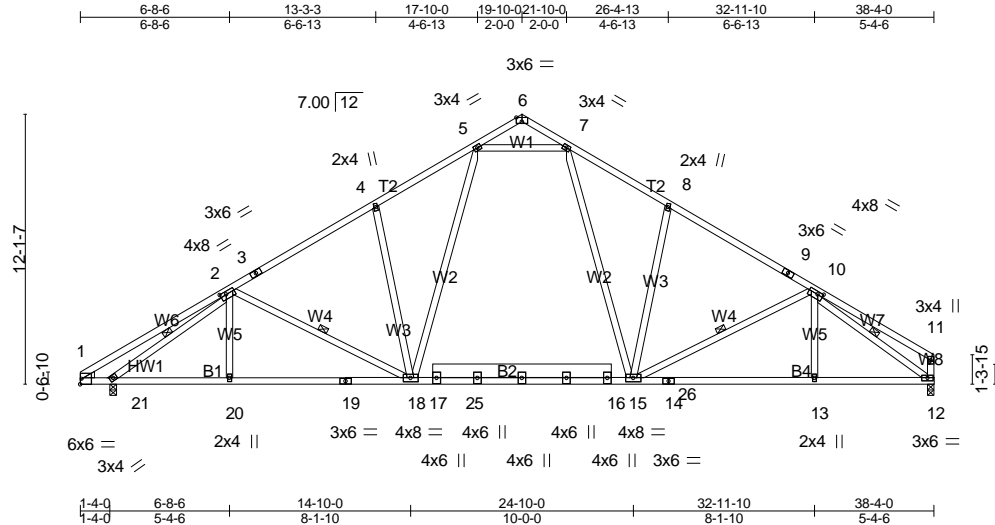
8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 14:32:25 2021 Page 2
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LOAD CASE(S) Standard

Job 2100199-2100199A	Truss A1	Truss Type ROOF TRUSS	Qty 2	Ply 1	120 BEECHLEAF - SOUTHEASTERN
84 Components, Dunn, NC 28334					Job Reference (optional)

8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 14:31:52 2021 Page 1

ID:NMPehaEQ4zz9fQFsfDQ1J3zhw?Z-_282XWoWdultBycMSD2SNySjfbWv0fIQ_cLb8ozhVL



Scale = 1:103.5

Plate Offsets (X,Y)-- [2:0-3-4,0-1-8], [6:0-3-0,Edge], [10:0-3-0,0-1-8]

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 0.90	Vert(LL)	-0.33	18-20	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.87	Vert(CT)	-0.48	18-20	>916	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.56	Horz(CT)	0.08	12	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS							
									Weight: 268 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*
 B3: 2x8 SP No.2
 WEBS 2x4 SP No.3
 WEDGE
 Left: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 2-18, 10-15, 10-12, 2-21

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

REACTIONS.

(lb/size) 12=1475/0-3-8 (min. 0-2-5), 21=1580/0-3-8 (min. 0-2-8)
 Max Horz 21=304(LC 11)
 Max Uplift 12=-162(LC 13), 21=-182(LC 12)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1832/344, 3-4=-1744/380, 4-5=-1790/471, 7-8=-1780/471, 8-9=-1736/379, 9-10=-1823/344
 BOT CHORD 20-21=-302/1893, 19-20=-302/1893, 18-19=-302/1893, 17-18=-67/1360, 17-25=-67/1360, 25-26=-67/1360, 16-26=-67/1360,
 15-16=-67/1360, 14-15=-239/1656, 13-14=-239/1656, 12-13=-239/1656
 WEBS 2-20=0/275, 2-18=-285/162, 4-18=-411/263, 5-18=-210/820, 7-15=-206/798, 8-15=-412/266, 10-13=0/285, 10-12=-1962/257,
 2-21=-2006/286, 5-7=-1238/405

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) 12 and 21. 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.

LOAD CASE(S) Standard

Job 2100199-2100199A	Truss BGR	Truss Type Common Girder	Qty 1	Ply 2	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
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8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 14:34:24 2021 Page 1
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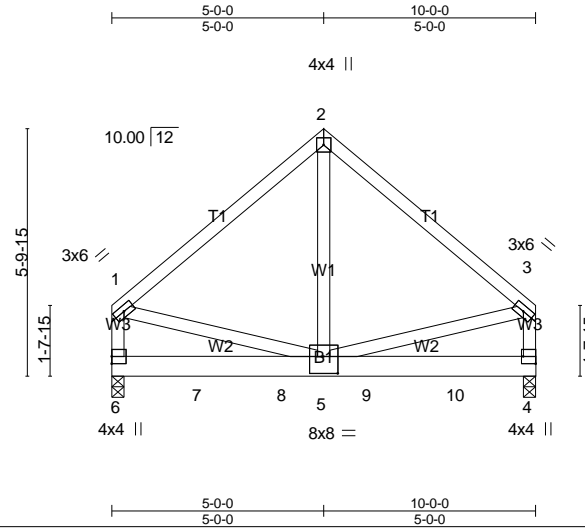


Plate Offsets (X,Y)-- [4:Edge,0-3-8], [5:0-4-0,0-4-12]

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 0.70	Vert(LL)	-0.03	4-5	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.42	Vert(CT)	-0.07	4-5	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.66	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS							
									Weight: 136 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 or 2x4 SPF 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, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10'-0-0 oc bracing.

REACTIONS. (lb/size) 6=3261/0-3-8 (min. 0-2-9), 4=3336/0-3-8 (min. 0-2-10)
Max Horz 6=-149(LC 8)
Max Uplift 6=-374(LC 13), 4=-383(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2786/388, 2-3=-2787/388, 1-6=-2373/343, 3-4=-2370/343
BOT CHORD 6-7=-182/365, 7-8=-182/365, 5-8=-182/365, 5-9=-89/299, 9-10=-89/299, 4-10=-89/299
WEBS 2-5=-336/3180, 1-5=-239/1852, 3-5=-239/1841

NOTES-

- 2-ply truss to be connected together with 10d (0.120"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-5-0 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 (3-second gust) 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; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) 6 and 4. 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.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1455 lb down and 182 lb up at 2-0-12, 1455 lb down and 182 lb up at 4-0-12, and 1455 lb down and 182 lb up at 6-0-12, and 1455 lb down and 182 lb up at 8-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

Continued on page 2

Job 2100199-2100199A	Truss BGR	Truss Type Common Girder	Qty 1	Ply 2	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
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8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 14:34:24 2021 Page 2
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LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-60, 2-3=-60, 4-6=-20

Concentrated Loads (lb)

Vert: 7=-1455(B) 8=-1455(B) 9=-1455(B) 10=-1455(B)

Job 2100199-2100199A	Truss F1	Truss Type Floor	Qty 6	Ply 1	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
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8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 15:36:52 2021 Page 1
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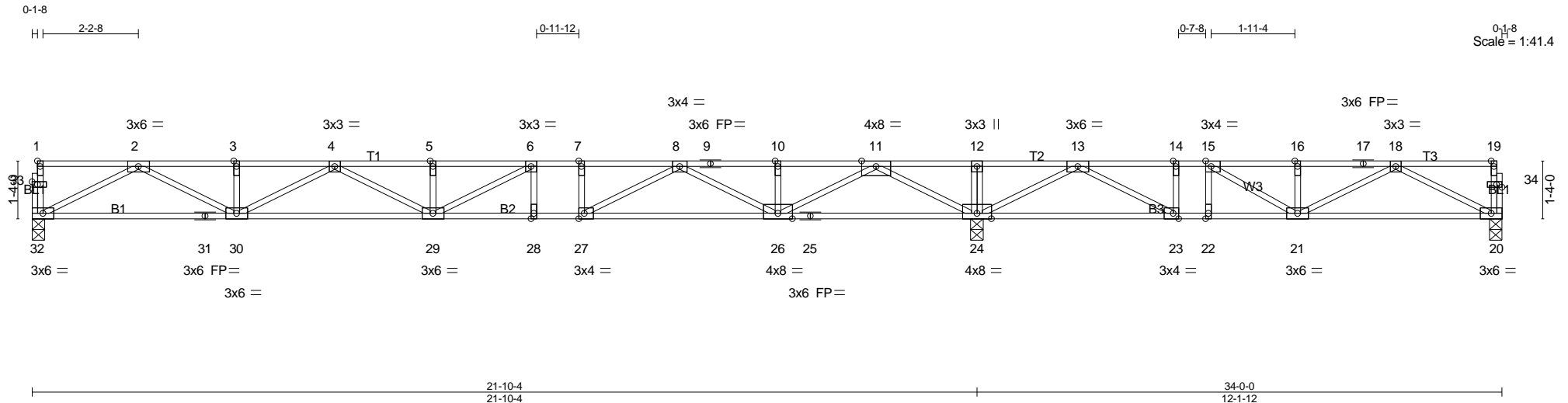


Plate Offsets (X,Y)-- [1:Edge,0-0-12], [15:0-1-8,Edge], [23:0-1-8,Edge], [27:0-1-8,Edge], [33:0-1-8,0-0-12], [34:0-1-8,0-0-12]
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LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.82 BC 0.74 WB 0.69 Matrix-S	DEFL. in (loc) l/defl L/d Vert(LL) -0.29 28-29 >894 480 Vert(CT) -0.39 28-29 >663 360 Horz(CT) 0.04 24 n/a n/a	PLATES MT20 GRIP 197/144 Weight: 174 lb FT = 20%F, 11%E
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LUMBER- TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat) BOT CHORD 2x4 SP No.1(flat) WEBS 2x4 SP No.3(flat)	BRACING- TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
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REACTIONS. (lb/size) 32=665/0-3-8 (min. 0-1-8), 20=205/0-3-8 (min. 0-1-8), 24=1597/0-3-8 (min. 0-1-8)
Max Uplift 20=-89(LC 3)
Max Grav 32=677(LC 3), 20=350(LC 4), 24=1597(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1978/0, 3-4=-1978/0, 4-5=-2662/0, 5-6=-2662/0, 6-7=-2386/0, 7-8=-2386/0, 8-9=-782/13, 9-10=-782/13, 10-11=-782/13, 11-12=0/2246, 12-13=0/2246, 13-14=-562/926, 14-15=-562/926, 15-16=-744/480, 16-17=-744/480, 17-18=-744/480
BOT CHORD 31-32=0/1166, 30-31=0/1166, 29-30=0/2453, 28-29=0/2386, 27-28=0/2386, 26-27=0/1695, 25-26=-679/0, 24-25=-679/0, 23-24=-1483/13, 22-23=-926/562, 21-22=-926/562, 20-21=-217/538
WEBS 2-32=-1310/0, 11-24=-1780/0, 2-30=0/919, 11-26=0/1440, 4-30=-538/0, 8-26=-1060/0, 8-27=0/867, 6-29=-94/534, 18-20=-602/245, 13-24=-1240/0, 18-21=-298/234, 13-23=0/976, 14-23=-291/0, 15-21=0/661

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
 - 3) All plates are 1.5x4 MT20 unless otherwise indicated.
 - 4) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 20. This connection is for uplift only and does not consider lateral forces.
 - 5) 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.
 - 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 7) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

Job 2100199-2100199A	Truss F10	Truss Type Floor	Qty 6	Ply 1	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
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84 Components, Dunn, NC 28334

8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 15:37:05 2021 Page 1
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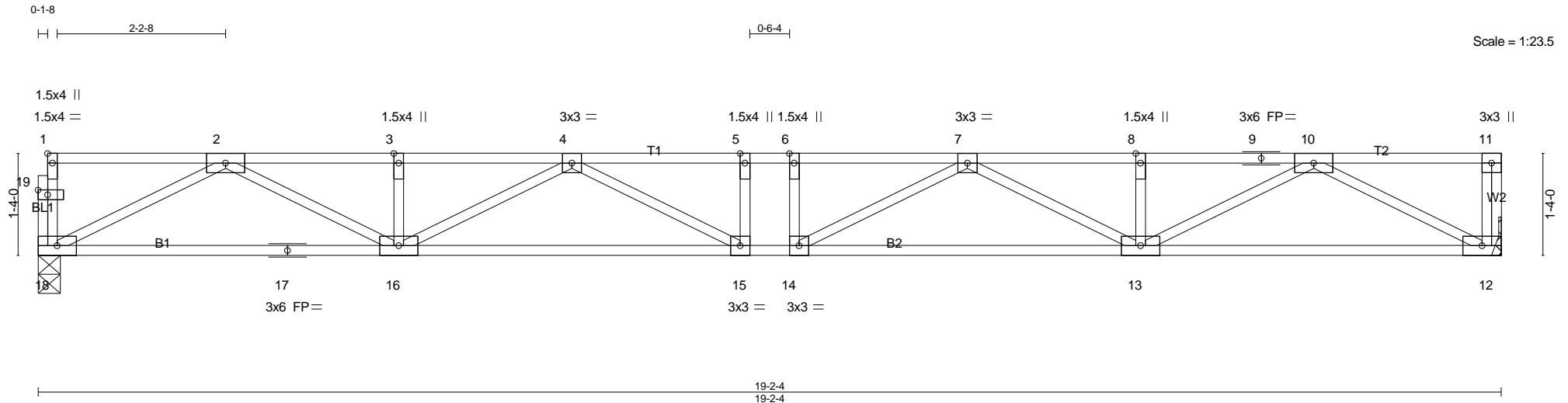


Plate Offsets (X,Y)-- [1:Edge,0-0-12], [19:0-1-8,0-0-12]

LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL 40.0	1-4-0	TC 0.32	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.00	BC 0.74	Vert(LL) -0.23 15 >999 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.45	Vert(CT) -0.31 15 >733 360		
BCDL 5.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.06 12 n/a n/a		
	Code IRC2015/TPI2014			Weight: 99 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-

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

REACTIONS. (lb/size) 18=690/0-3-8 (min. 0-1-8), 12=694/Mechanical

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

TOP CHORD 2-3=-2028/0, 3-4=-2028/0, 4-5=-2729/0, 5-6=-2729/0, 6-7=-2729/0, 7-8=-2028/0, 8-9=-2028/0, 9-10=-2028/0
BOT CHORD 17-18=0/1192, 16-17=0/1192, 15-16=0/2528, 14-15=0/2729, 13-14=0/2528, 12-13=0/1194
WEBS 10-12=-1344/0, 2-18=-1339/0, 10-13=0/945, 2-16=0/946, 7-13=-567/0, 4-16=-567/0, 7-14=-66/402, 4-15=-65/402

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 3) All plates are 3x6 MT20 unless otherwise indicated.
- 4) Refer to girder(s) for truss to truss connections.
- 5) 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.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 7) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

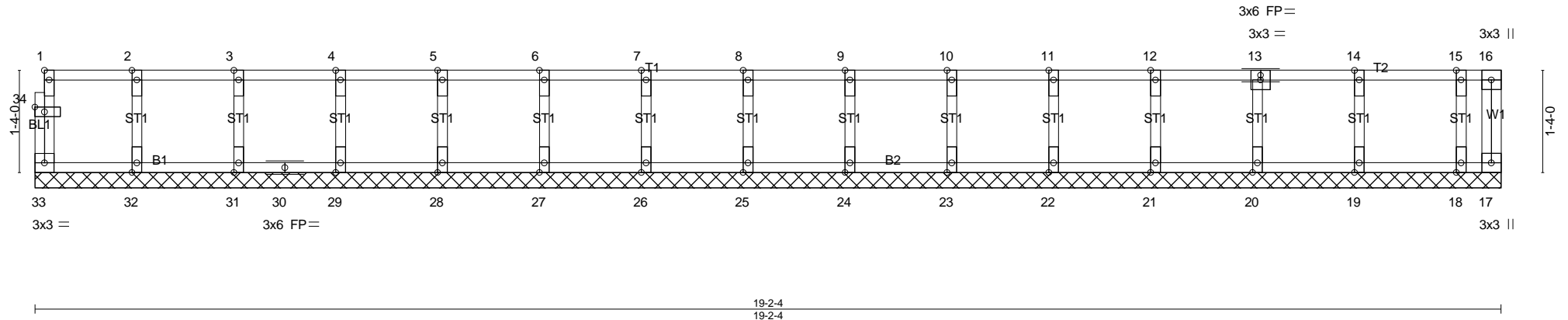
Job 2100199-2100199A	Truss F10E	Truss Type Floor Supported Gable	Qty 1	Ply 1	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
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84 Components, Dunn, NC 28334

8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 15:37:07 2021 Page 1
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0:1:8
1:1

Scale = 1:23.4



LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES	GRIP
TCLL	40.0	Plate Grip DOL	2-0-0	TC	0.08	in	(loc)	l/defl	L/d	MT20	197/144
TCDL	10.0	Lumber DOL	1.00	BC	0.03	Vert(LL)	n/a	-	n/a		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Vert(CT)	n/a	-	n/a		
BCDL	5.0	Code IRC2015/TPI2014		Matrix-R		Horz(CT)	0.00	17	n/a		
										Weight: 86 lb	FT = 20%F, 11%E

LUMBER-
 TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
 WEBS 2x4 SP No.3(flat)
 OTHERS 2x4 SP No.3(flat)

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

REACTIONS. All bearings 19-2-4.
 (lb) - Max Grav All reactions 250 lb or less at joint(s) 33, 17, 32, 31, 29, 28, 27, 26, 25, 24, 23, 22, 21, 20, 19, 18

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

- NOTES-**
- 1) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
 - 2) All plates are 1.5x4 MT20 unless otherwise indicated.
 - 3) Gable requires continuous bottom chord bearing.
 - 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 5) Gable studs spaced at 1-4-0 oc.
 - 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.
 - 7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 8) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

Job 2100199-2100199A	Truss F11	Truss Type Floor	Qty 7	Ply 1	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
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84 Components, Dunn, NC 28334

8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 15:37:09 2021 Page 1
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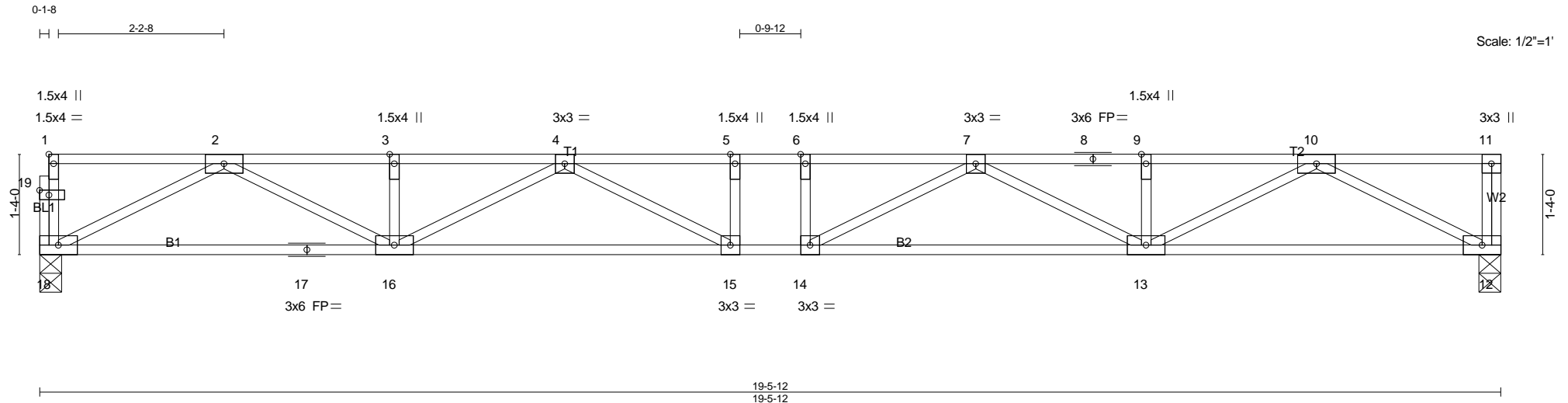


Plate Offsets (X,Y)-- [1:Edge,0-0-12], [19:0-1-8,0-0-12]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.37	Vert(LL) -0.24	15	>966	480	MT20	197/144
TCDL 10.0	Lumber DOL 1.00	BC 0.76	Vert(CT) -0.33	15	>704	360		
BCLL 0.0	Rep Stress Incr YES	WB 0.46	Horz(CT) 0.06	12	n/a	n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S						
							Weight: 100 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-

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

REACTIONS. (lb/size) 18=701/0-3-8 (min. 0-1-8), 12=705/0-3-8 (min. 0-1-8)

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

TOP CHORD 2-3=-2069/0, 3-4=-2069/0, 4-5=-2809/0, 5-6=-2809/0, 6-7=-2809/0, 7-8=-2068/0, 8-9=-2068/0, 9-10=-2068/0
BOT CHORD 17-18=0/1213, 16-17=0/1213, 15-16=0/2589, 14-15=0/2809, 13-14=0/2589, 12-13=0/1214
WEBS 10-12=-1368/0, 2-18=-1362/0, 10-13=0/967, 2-16=0/969, 7-13=-590/0, 4-16=-589/0, 7-14=-55/436, 4-15=-55/436

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 3) All plates are 3x6 MT20 unless otherwise indicated.
- 4) 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.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

Job 2100199-2100199A	Truss F12	Truss Type Floor	Qty 1	Ply 1	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
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84 Components, Dunn, NC 28334

8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 15:37:10 2021 Page 1
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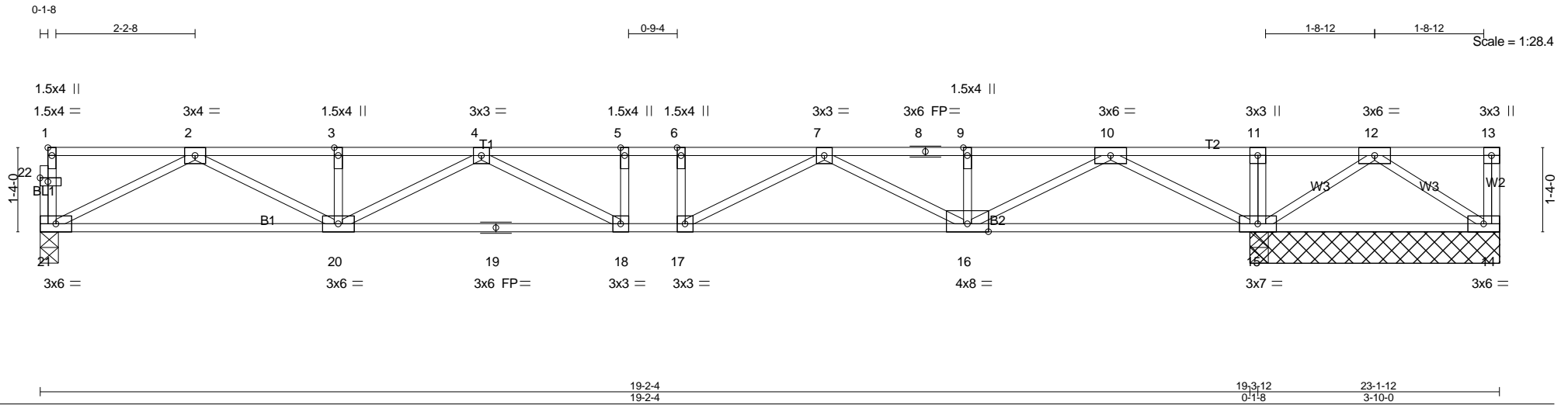


Plate Offsets (X,Y)-- [1:Edge,0-0-12], [22:0-1-8,0-0-12]

LOADING (psf)	SPACING-	1-4-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.68	Vert(LL)	-0.17	18-20	>999	MT20	197/144
TCDL 10.0	Lumber DOL	1.00	BC 0.64	Vert(CT)	-0.25	18-20	>929		
BCLL 0.0	Rep Stress Incr	YES	WB 0.58	Horz(CT)	0.03	15	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 120 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-

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

REACTIONS. (lb/size) 21=576/0-3-8 (min. 0-1-8), 15=1597/3-11-8 (min. 0-1-8), 15=1597/3-11-8 (min. 0-1-8), 14=-498/3-11-8 (min. 0-1-8)
Max Uplift 14=-498(LC 1)

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

TOP CHORD 2-3=-1596/0, 3-4=-1596/0, 4-5=-1820/0, 5-6=-1820/0, 6-7=-1820/0, 7-8=-573/0, 8-9=-573/0, 9-10=-573/0, 10-11=0/1906,
11-12=0/1904

BOT CHORD 20-21=0/975, 19-20=0/1881, 18-19=0/1881, 17-18=0/1820, 16-17=0/1323, 15-16=-511/0, 14-15=-852/0

WEBS 2-21=-1094/0, 10-15=-1573/0, 2-20=0/703, 10-16=0/1227, 4-20=-323/0, 7-16=-849/0, 7-17=0/617, 12-15=-1254/0, 12-14=0/1017

NOTES-

- Unbalanced floor live loads have been considered for this design.
- As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- Two H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 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.
- Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

Job 2100199-2100199A	Truss F13	Truss Type Floor	Qty 3	Ply 1	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
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84 Components, Dunn, NC 28334

8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 15:37:12 2021 Page 1
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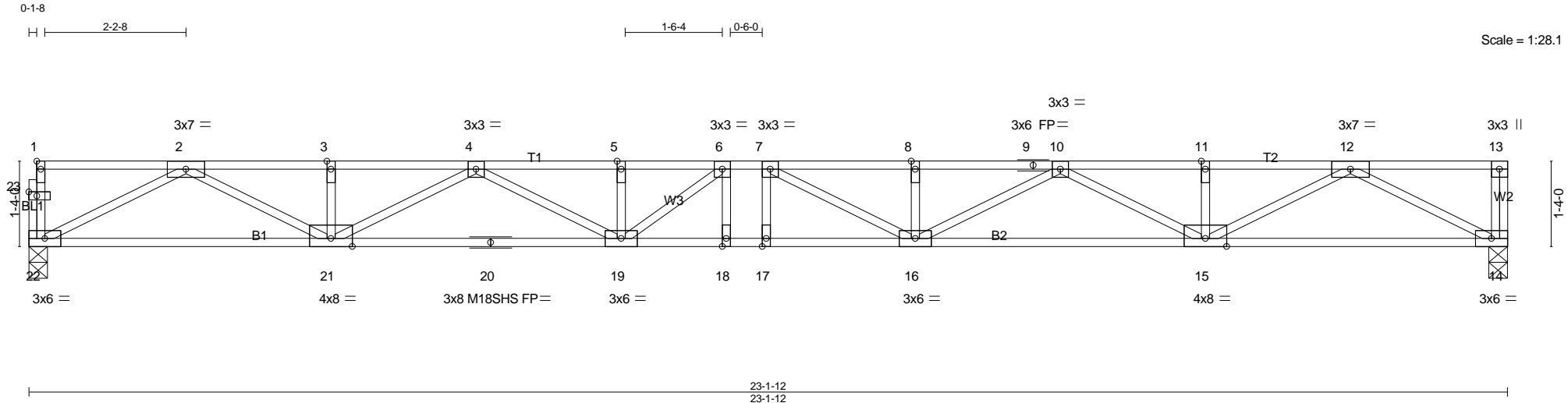


Plate Offsets (X,Y)-- [1:Edge,0-0-12], [23:0-1-8,0-0-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.23	Vert(LL) -0.35	17	>781	480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.41	Vert(CT) -0.48	17	>568	360	M18SHS	244/190
BCLL 0.0	Rep Stress Incr YES	WB 0.60	Horz(CT) 0.07	14	n/a	n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S						
							Weight: 120 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP DSS(flat)
BOT CHORD 2x4 SP DSS(flat)
WEBS 2x4 SP No.3(flat)

BRACING-

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

REACTIONS. (lb/size) 22=835/0-3-8 (min. 0-1-8), 14=840/0-3-8 (min. 0-1-8)

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

TOP CHORD 2-3=-2579/0, 3-4=-2579/0, 4-5=-3824/0, 5-6=-3824/0, 6-7=-3969/0, 7-8=-3835/0, 8-9=-3835/0, 9-10=-3835/0, 10-11=-2579/0, 11-12=-2579/0

BOT CHORD 21-22=0/1471, 20-21=0/3350, 19-20=0/3350, 18-19=0/3969, 17-18=0/3969, 16-17=0/3969, 15-16=0/3348, 14-15=0/1472

WEBS 12-14=-1658/0, 2-22=-1653/0, 12-15=0/1253, 2-21=0/1255, 10-15=-872/0, 4-21=-873/0, 10-16=0/552, 4-19=0/537, 7-16=-411/189, 6-19=-408/155

NOTES-

- Unbalanced floor live loads have been considered for this design.
- As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- All plates are MT20 plates unless otherwise indicated.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- 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.
- Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

Job 2100199-2100199A	Truss F14	Truss Type Floor	Qty 8	Ply 1	120 BEECHLEAF - SOUTHEASTERN
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84 Components, Dunn, NC 28334

8.400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 15:37:14 2021 Page 1
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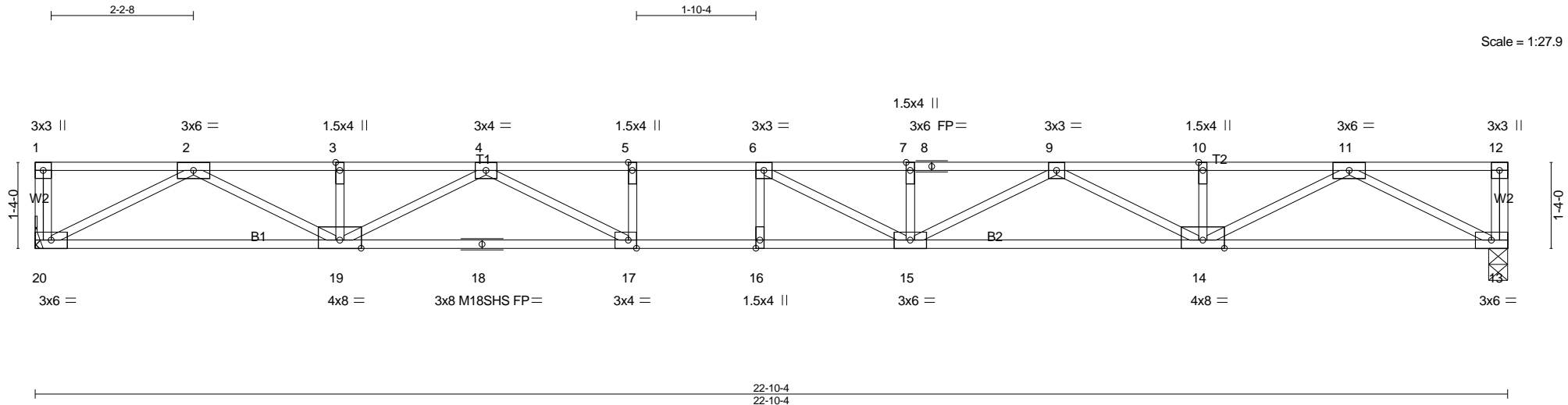


Plate Offsets (X,Y)-- [17:0-1-8,Edge] 22-10-4 22-10-4

LOADING (psf)	SPACING-	1-4-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.36	Vert(LL)	-0.37 15-16	>729	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.53	Vert(CT)	-0.51 15-16	>532	360	M18SHS	244/190
BCLL 0.0	Rep Stress Incr	YES	WB 0.59	Horz(CT)	0.07 13	n/a	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 115 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP DSS(flat)
BOT CHORD 2x4 SP DSS(flat)
WEBS 2x4 SP No.3(flat)

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

REACTIONS. (lb/size) 20=829/Mechanical, 13=829/0-3-8 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2535/0, 3-4=-2535/0, 4-5=-3810/0, 5-6=-3810/0, 6-7=-3768/0, 7-8=-3768/0, 8-9=-3768/0, 9-10=-2538/0, 10-11=-2538/0
BOT CHORD 19-20=0/1448, 18-19=0/3289, 17-18=0/3289, 16-17=0/3810, 15-16=0/3810, 14-15=0/3288, 13-14=0/1451
WEBS 11-13=-1634/0, 2-20=-1631/0, 11-14=0/1231, 2-19=0/1230, 9-14=-850/0, 4-19=-854/0, 9-15=0/544, 4-17=0/777, 6-15=-455/289

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
 - 3) All plates are MT20 plates unless otherwise indicated.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) 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.
 - 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

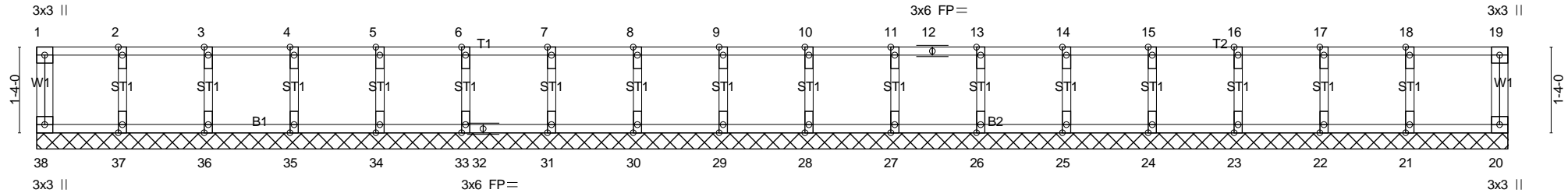
LOAD CASE(S) Standard

Job 2100199-2100199A	Truss F14E	Truss Type Floor Supported Gable	Qty 1	Ply 1	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
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84 Components, Dunn, NC 28334

8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 15:37:16 2021 Page 1
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.08	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.00	BC 0.02	Vert(LL) n/a - n/a 999		
BCLL 0.0	Lumber DOL 1.00	WB 0.03	Vert(CT) n/a - n/a 999		
BCDL 5.0	Rep Stress Incr YES	Matrix-R	Horz(CT) 0.00 20 n/a n/a		
	Code IRC2015/TPI2014			Weight: 100 lb	FT = 20%F, 11%E

LUMBER-

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

BRACING-

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

REACTIONS.

All bearings 22-10-4.
 (lb) - Max Grav All reactions 250 lb or less at joint(s) 38, 20, 37, 36, 35, 34, 33, 31, 30, 29, 28, 27, 26, 25, 24, 23, 22, 21

FORCES.

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

NOTES-

- As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- 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.
- Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

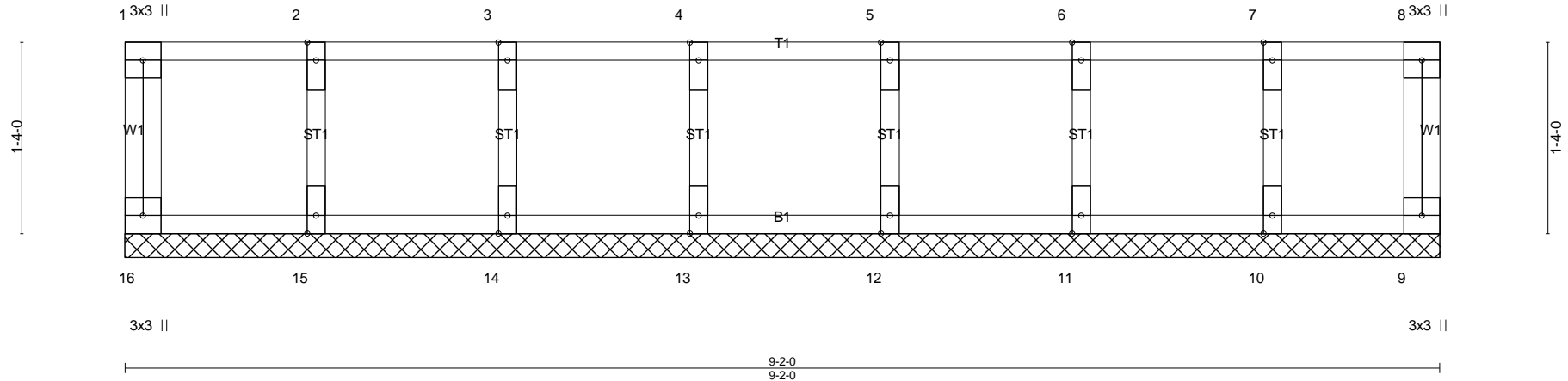
LOAD CASE(S) Standard

Job 2100199-2100199A	Truss F15	Truss Type Floor Supported Gable	Qty 1	Ply 1	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
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84 Components, Dunn, NC 28334

8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 15:37:19 2021 Page 1
ID:NMPehaEQ4zz9fQFsfDQ1J3zhw?Z-VYwdjJopTWgpRJ50S?L24b1Ub??dqr?46uThzhuo_

Scale = 1:13.8



LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.08	Vert(LL) n/a - n/a 999	MT20	197/144
TCDL 10.0	Lumber DOL 1.00	BC 0.01	Vert(CT) n/a - n/a 999		
BCLL 0.0	Rep Stress Incr YES	WB 0.03	Horz(CT) 0.00 9 n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-R			
				Weight: 43 lb	FT = 20%F, 11%E

LUMBER-

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

BRACING-

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

REACTIONS.

All bearings 9-2-0.
 (lb) - Max Grav All reactions 250 lb or less at joint(s) 16, 9, 15, 14, 13, 12, 11, 10

FORCES.

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

NOTES-

- As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- 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.
- Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

Job 2100199-2100199A	Truss F2	Truss Type Floor	Qty 1	Ply 1	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
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84 Components, Dunn, NC 28334

8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 15:36:55 2021 Page 1
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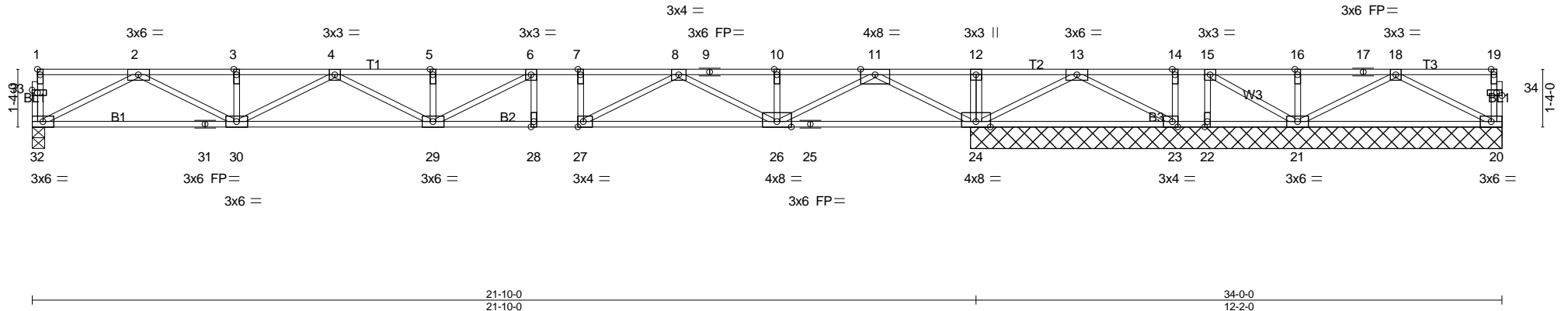


Plate Offsets (X,Y)-- [1:Edge,0-0-12], [23:0-1-8,Edge], [27:0-1-8,Edge], [33:0-1-8,0-0-12], [34:0-1-8,0-0-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	1-4-0	TC 0.84	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.00	BC 0.72	Vert(LL) -0.27 28-29 >965 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.69	Vert(CT) -0.37 28-29 >707 360		
BCDL 5.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.04 24 n/a n/a		
	Code IRC2015/TPI2014			Weight: 174 lb	FT = 20%F, 11%E

LUMBER-
 TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
 BOT CHORD 2x4 SP No.1(flat)
 WEBS 2x4 SP No.3(flat)

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

REACTIONS. All bearings 12-3-8 except (jt=length) 32=0-3-8.
 (lb) - Max Uplift All uplift 100 lb or less at joint(s) except 23=-371(LC 1)
 Max Grav All reactions 250 lb or less at joint(s) 20, 22 except 32=656(LC 1), 24=1680(LC 1), 21=257(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1898/0, 3-4=-1898/0, 4-5=-2506/0, 5-6=-2506/0, 6-7=-2181/0, 7-8=-2181/0, 8-9=-496/0, 9-10=-496/0, 10-11=-496/0, 11-12=0/2372, 12-13=0/2372
 BOT CHORD 31-32=0/1126, 30-31=0/1126, 29-30=0/2334, 28-29=0/2181, 27-28=0/2181, 26-27=0/1446, 25-26=-782/0, 24-25=-782/0, 23-24=-1129/0
 WEBS 2-32=-1265/0, 11-24=-1790/0, 2-30=0/875, 11-26=0/1448, 4-30=-494/0, 8-26=-1077/0, 8-27=0/862, 7-27=-252/0, 6-29=-94/530, 13-24=-1400/0, 13-23=0/1046

- NOTES-**
- Unbalanced floor live loads have been considered for this design.
 - As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
 - All plates are 1.5x4 MT20 unless otherwise indicated.
 - Two H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 23. 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.
 - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

Job 2100199-2100199A	Truss F3	Truss Type Floor	Qty 3	Ply 1	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
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84 Components, Dunn, NC 28334

8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 15:36:56 2021 Page 1
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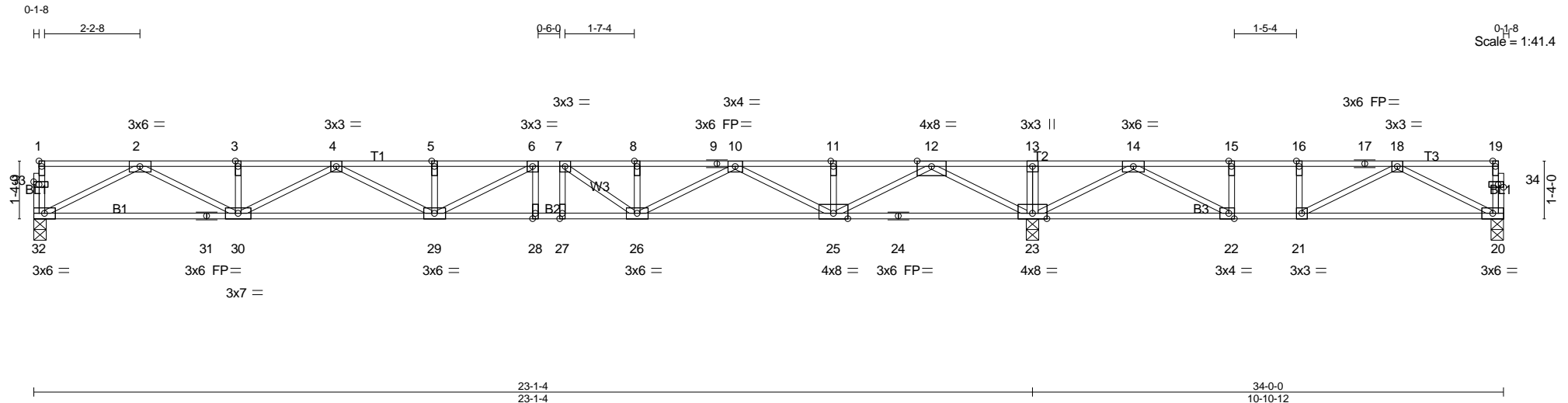


Plate Offsets (X,Y)-- [1:Edge,0-0-12], [22:0-1-8,Edge], [33:0-1-8,0-0-12], [34:0-1-8,0-0-12]					
LOADING (psf)	SPACING- 1-4-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.42	Vert(LL) -0.27 28-29 >999 480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.35	Vert(CT) -0.37 28-29 >743 360		
BCLL 0.0	Rep Stress Incr YES	WB 0.72	Horz(CT) 0.05 23 n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S			
				Weight: 173 lb	FT = 20%F, 11%E

LUMBER-
 TOP CHORD 2x4 SP DSS(flat)
 BOT CHORD 2x4 SP DSS(flat)
 WEBS 2x4 SP No.3(flat)

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

REACTIONS. (lb/size) 32=726/0-3-8 (min. 0-1-8), 20=152/0-3-8 (min. 0-1-8), 23=1588/0-3-8 (min. 0-1-8)
 Max Uplift20=-116(LC 3)
 Max Grav32=736(LC 10), 20=310(LC 4), 23=1588(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2203/0, 3-4=-2203/0, 4-5=-3095/0, 5-6=-3095/0, 6-7=-3010/0, 7-8=-2679/0, 8-9=-2679/0, 9-10=-2679/0, 10-11=-1049/0, 11-12=-1049/0, 12-13=0/2153, 13-14=0/2153, 14-15=-522/740, 15-16=-522/740, 16-17=-522/740, 17-18=-522/740
 BOT CHORD 31-32=0/1280, 30-31=0/1280, 29-30=0/2788, 28-29=0/3010, 27-28=0/3010, 26-27=0/3010, 25-26=0/2013, 24-25=-517/0, 23-24=-517/0, 22-23=-1395/51, 21-22=-740/522, 20-21=-271/460
 WEBS 2-32=-1438/0, 12-23=-1857/0, 2-30=0/1045, 12-25=0/1518, 4-30=-662/0, 10-25=-1122/0, 4-29=0/348, 10-26=0/784, 6-29=-219/366, 7-26=-572/0, 18-20=-515/305, 14-23=-1155/0, 18-21=-532/70, 14-22=0/992, 15-22=-349/0

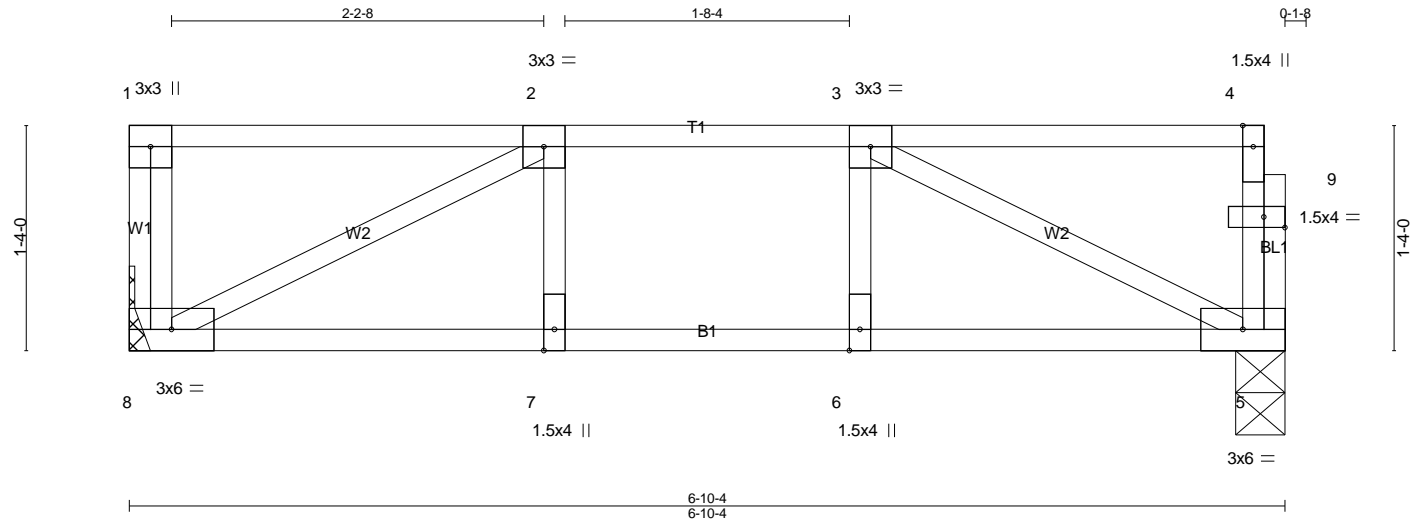
- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
 - 3) All plates are 1.5x4 MT20 unless otherwise indicated.
 - 4) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 20. This connection is for uplift only and does not consider lateral forces.
 - 5) 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.
 - 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 7) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

Job 2100199-2100199A	Truss F7	Truss Type Floor	Qty 2	Ply 1	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
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84 Components, Dunn, NC 28334

8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 15:37:03 2021 Page 1
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Scale = 1:13.7

Plate Offsets (X,Y)-- [9:0-1-8,0-0-12]							
LOADING (psf)	SPACING- 1-4-0	CSI.	DEFL. in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.25	Vert(LL) -0.02	7-8	>999	MT20	197/144
TCDL 10.0	Lumber DOL 1.00	BC 0.20	Vert(CT) -0.03	7-8	>999		
BCLL 0.0	Rep Stress Incr YES	WB 0.10	Horz(CT) 0.00	5	n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S					
						Weight: 37 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
 WEBS 2x4 SP No.3(flat)

BRACING-

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

REACTIONS. (lb/size) 8=242/Mechanical, 5=238/0-3-8 (min. 0-1-8)

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

TOP CHORD 2-3=-332/0
 BOT CHORD 7-8=0/332, 6-7=0/332, 5-6=0/332
 WEBS 3-5=-368/0, 2-8=-372/0

NOTES-

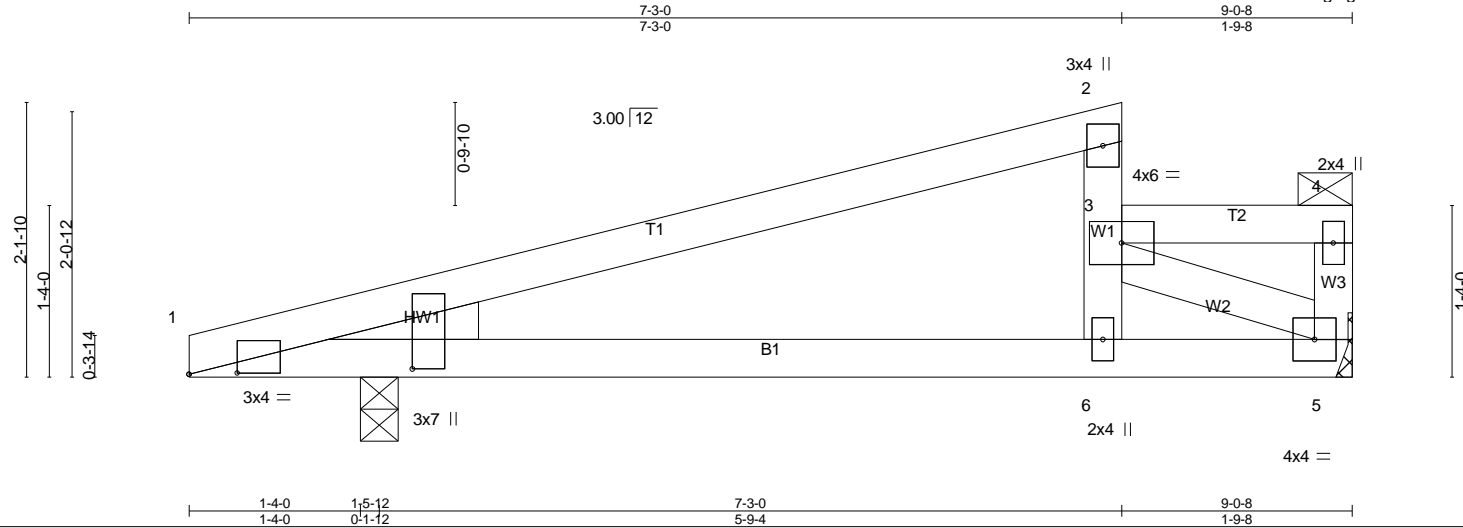
- 1) Unbalanced floor live loads have been considered for this design.
- 2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 3) Refer to girder(s) for truss to truss connections.
- 4) 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.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

Job 2100199-2100199A	Truss M1	Truss Type Half Hip	Qty 5	Ply 1	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
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84 Components, Dunn, NC 28334

8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 15:06:46 2021 Page 1
ID:NMPehaEQ4zz9fQFsfDQ1J3zhw?Z-gvfgOX80UHalPlho7?dVFXAc?iK8fpseVObOdQzhvEd



Scale = 1:17.9

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.79	Vert(LL)	0.03	6-11	>999	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.27	Vert(CT)	-0.05	6-11	>999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.11	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS						
	Code IRC2015/TPI2014						Weight: 35 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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.); 3-6, 3-4.
 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) 5=372/Mechanical, 1=429/0-3-8 (min. 0-1-8)

Max Horz 1=86(LC 12)
 Max Uplift1=-62(LC 8)
 Max Grav5=392(LC 2), 1=429(LC 1)

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

TOP CHORD 1-2=-380/98
 BOT CHORD 1-6=-142/338, 5-6=-148/484
 WEBS 3-5=-507/148

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-0-0 to 8-10-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 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.
- One H2.5A 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.
- 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	120 BEECHLEAF - SOUTHEASTERN
2100199-2100199A	M1	Half Hip	5	1	Job Reference (optional)

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8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 15:06:46 2021 Page 2
 ID:NMPehaEQ4zz9fQFsfDQ1J3zhw?Z-gvfg0X80UHalPlho7?dVFXAc?iK8fpseVObOdQzhvEd

LOAD CASE(S) Standard

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

Vert: 1-2=-60, 3-4=-110(F=-50), 5-7=-20

Job 2100199-2100199A	Truss M1E	Truss Type Half Hip Supported	Qty 1	Ply 1	120 BEECHLEAF - SOUTHEASTERN
84 Components, Dunn, NC 28334					Job Reference (optional)

8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 15:06:51 2021 Page 1
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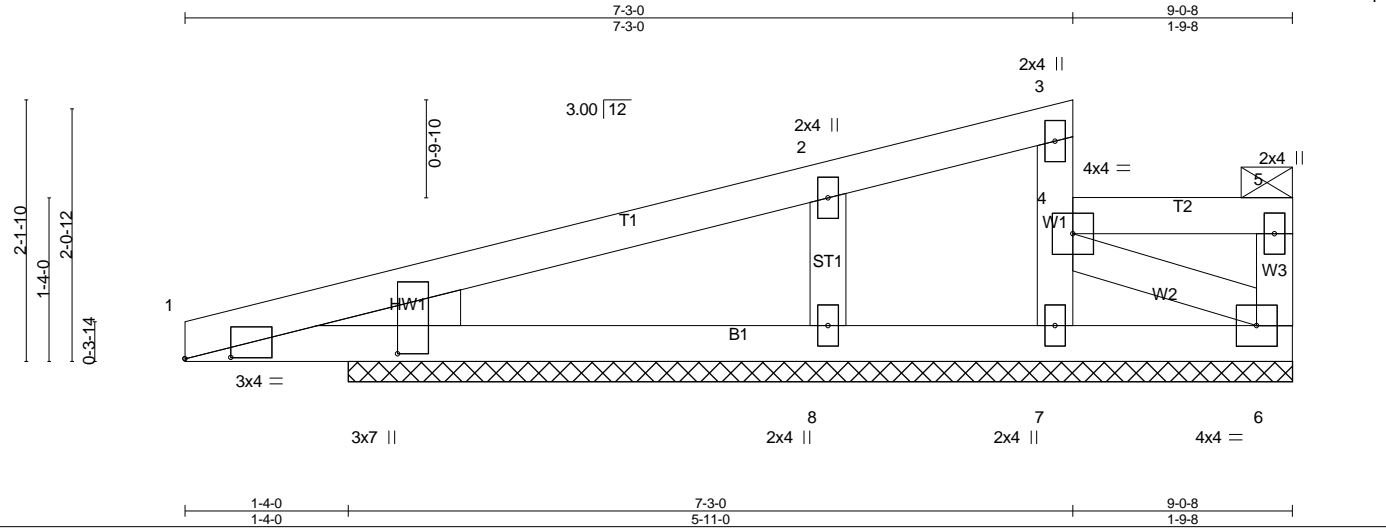


Plate Offsets (X,Y)-- [1:0-4-8,0-0-2], [1:0-0-8,1-8-13]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.40	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.24	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.07	Horz(CT)	-0.00	6	n/a		
BCDL 10.0	Rep Stress Incr NO	Matrix-S					Weight: 37 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
 WEBS 2x4 SP No.3
 OTHERS 2x4 SP No.3
 WEDGE
 Left: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 9-0-8 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.); 4-7, 4-5.
 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.

All bearings 7-8-8.
 (lb) - Max Horz 1=79(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 8, 1
 Max Grav All reactions 250 lb or less at joint(s) 7, 6, 1 except 8=459(LC 1)

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

WEBS 2-8=-326/224

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-0-0 to 8-10-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Provide adequate drainage to prevent water ponding.
- 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) 8. This connection is for uplift only and does not consider lateral forces.
- 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.
- Non Standard bearing condition. Review required.
- 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	120 BEECHLEAF - SOUTHEASTERN
2100199-2100199A	M1E	Half Hip Supported	1	1	Job Reference (optional)

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8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 15:06:51 2021 Page 2
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NOTES-

13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

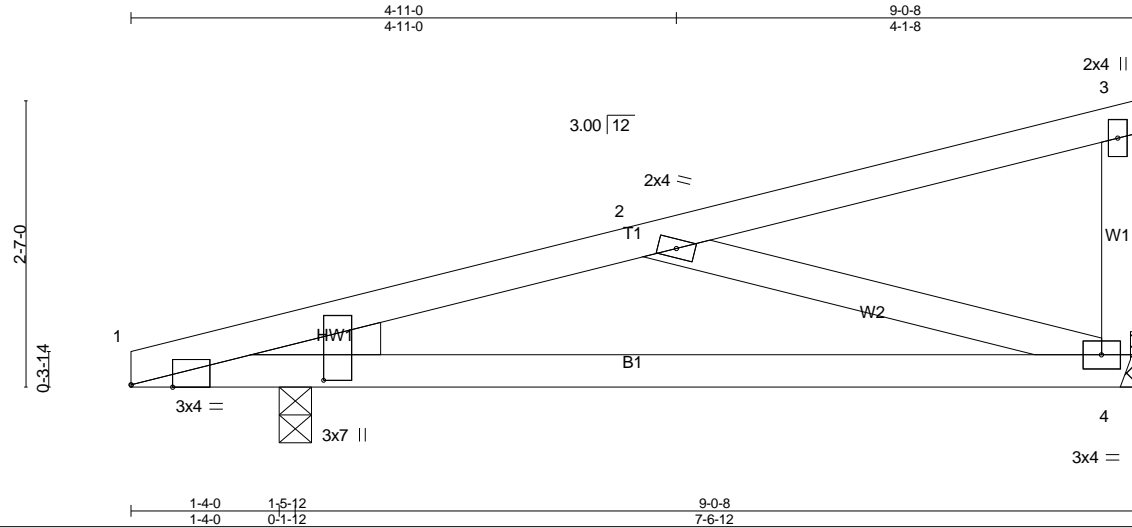
Uniform Loads (plf)

Vert: 1-3=-60, 4-5=-110(F=-50), 1-6=-20

Job 2100199-2100199A	Truss M2	Truss Type Monopitch	Qty 5	Ply 1	120 BEECHLEAF - SOUTHEASTERN
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84 Components, Dunn, NC 28334

8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 15:06:40 2021 Page 1
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Scale = 1:20.8

Plate Offsets (X,Y)-- [1:0-4-8,Edge], [1:0-0-8,1-8-13]

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 0.26	Vert(LL)	-0.05	4-9	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.38	Vert(CT)	-0.11	4-9	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.17	Horz(CT)	0.01	4	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS						Weight: 38 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

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.

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

REACTIONS. (lb/size) 4=293/Mechanical, 1=419/0-3-8 (min. 0-1-8)

Max Horz 1=91(LC 11)
 Max Uplift4=-60(LC 12), 1=-71(LC 8)

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

TOP CHORD 1-2=-495/215
 BOT CHORD 1-4=-267/469
 WEBS 2-4=-453/246

NOTES-

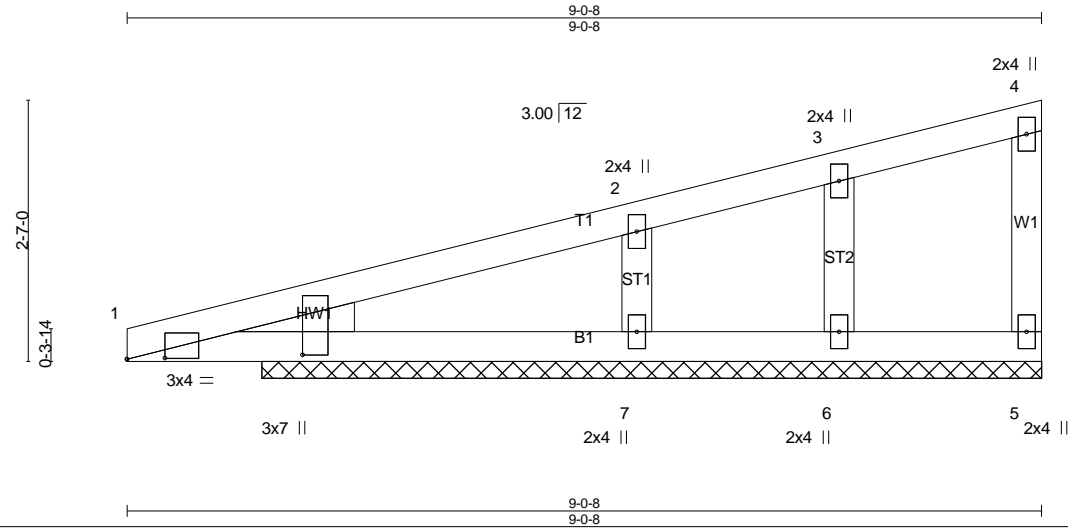
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 60 lb uplift at jt(s) 1.
- 6) One H2.5A 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.
- 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 2100199-2100199A	Truss M2E	Truss Type Monopitch Supported Gable	Qty 1	Ply 1	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
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84 Components, Dunn, NC 28334

8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 15:14:08 2021 Page 1
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Scale = 1:22.8

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

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 0.30	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.20	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.06	Horz(CT)	-0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S							
								Weight: 36 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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6'-0" oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10'-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 7-8-8.
 (lb) - Max Horz 1=92(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) 5, 6, 7, 1
 Max Grav All reactions 250 lb or less at joint(s) 5, 6, 1 except 7=425(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 2-7=-305/210

NOTES-

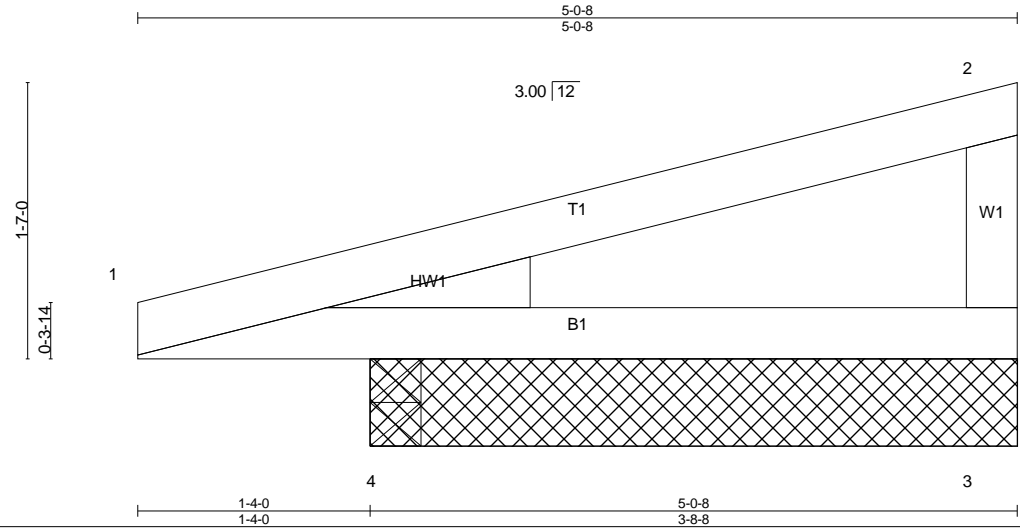
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable studs spaced at 2'-0" oc.
- 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" tall by 2'-0" wide will fit between the bottom chord and any other members.
- 6) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 5, 6, and 7. This connection is for uplift only and does not consider lateral forces.
- 7) 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.
- 8) Non Standard bearing condition. Review required.
- 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 2100199-2100199A	Truss M3	Truss Type Monopitch Structural Gable	Qty 1	Ply 1	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
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8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 14:20:55 2021 Page 1
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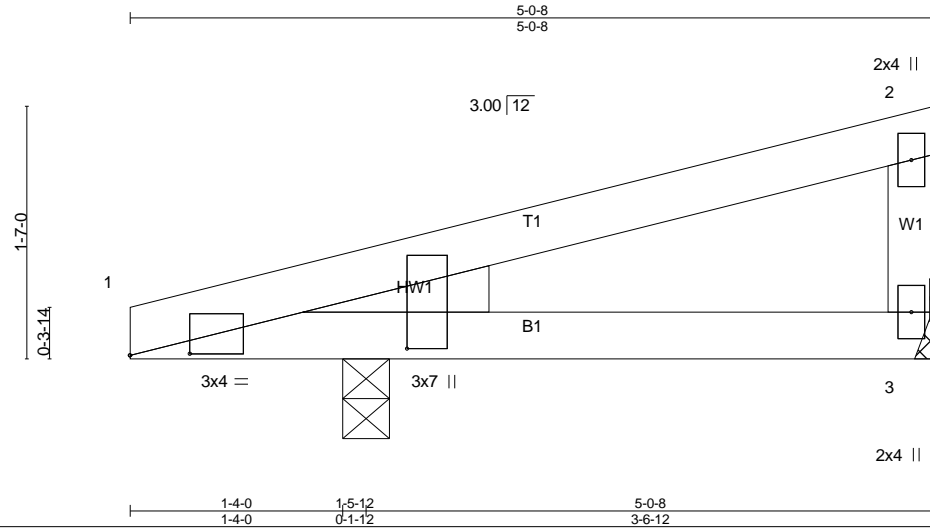
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LOADING (psf)	SPACING- 2-0-0
TCLL 20.0	Plate Grip DOL
TCDL 10.0	Lumber DOL
BCLL 0.0 *	Rep Stress Incr YES
BCDL 10.0	Code IRC2015/TPI2014

Job 2100199-2100199A	Truss M4	Truss Type Monopitch	Qty 5	Ply 1	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
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8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 15:06:35 2021 Page 1
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Plate Offsets (X,Y)-- [1:0-4-8,0-0-2], [1:0-0-8,1-8-13]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.13	Vert(LL)	-0.01	3-8	>999	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.10	Vert(CT)	-0.01	3-8	>999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Horz(CT)	0.00	1	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MP						
	Code IRC2015/TPI2014						Weight: 19 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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-0-8 oc purlins, except end verticals.
 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) 3=123/Mechanical, 1=269/0-3-8 (min. 0-1-8)

Max Horz 1=50(LC 11)
 Max Uplift3=-27(LC 12), 1=-45(LC 8)

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

NOTES-

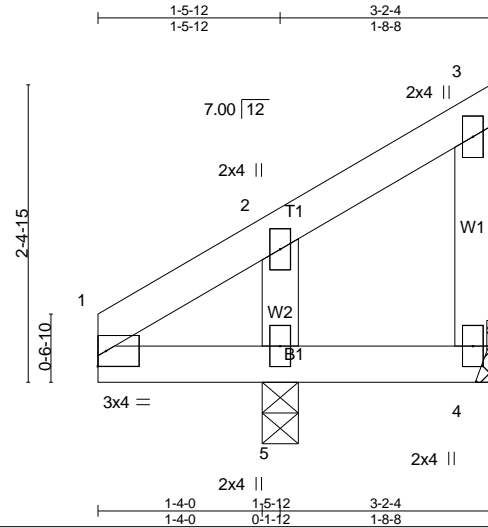
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 27 lb uplift at joint 3.
- 6) One H2.5A 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.
- 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 2100199-2100199A	Truss M6	Truss Type Monopitch	Qty 5	Ply 1	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
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8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 15:05:08 2021 Page 1
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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 0.10	Vert(LL) 0.00 5 >999 240	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.09	Vert(CT) 0.00 4-5 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.03	Horz(CT) 0.00 4 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MP		Weight: 14 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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-2-4 oc purlins, except end verticals.
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) 4=6/Mechanical, 5=237/0-3-8 (min. 0-1-8)
Max Horz 5=73(LC 11)
Max Uplift 4=-48(LC 9), 5=-18(LC 12)
Max Grav 4=47(LC 10), 5=237(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) 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; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 48 lb uplift at joint 4.
- 6) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 5. 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 2100199-2100199A	Truss F4	Truss Type FLOOR GIRDER	Qty 1	Ply 1	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
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8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 15:36:58 2021 Page 1
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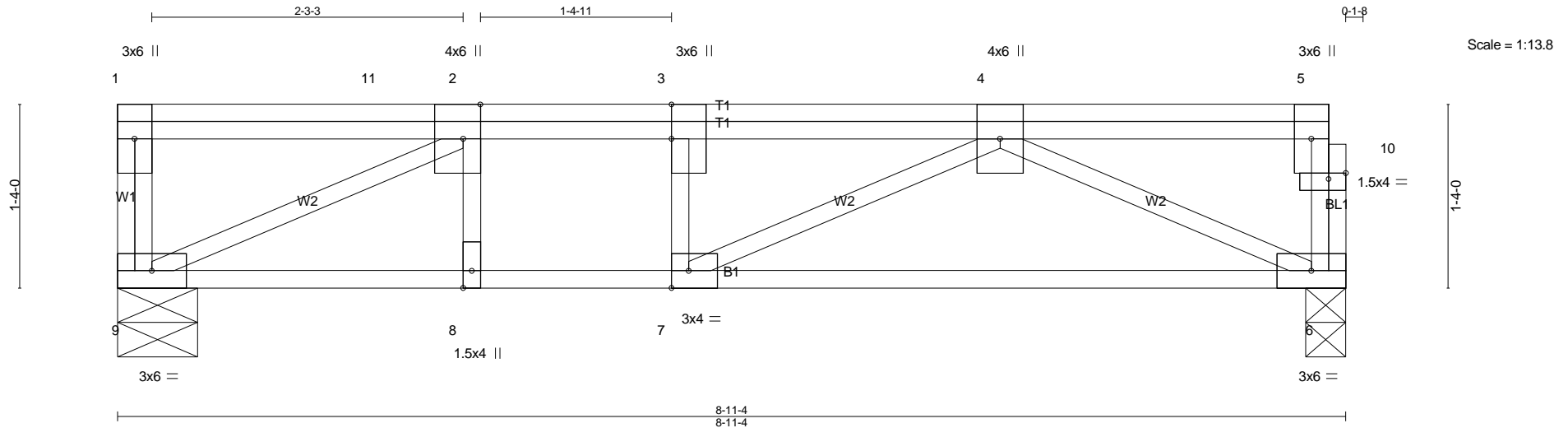


Plate Offsets (X,Y)-- [2:0-3-0,Edge], [3:0-3-0,0-0-0], [7:0-1-8,Edge], [10:0-1-8,0-0-8]

LOADING (psf)	SPACING-	1-4-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.37	Vert(LL)	-0.02	8-9	>999	MT20	197/144
TCDL 10.0	Lumber DOL	1.00	BC 0.35	Vert(CT)	-0.04	6-7	>999		
BCLL 0.0	Rep Stress Incr	NO	WB 0.25	Horz(CT)	0.01	6	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 59 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
 WEBS 2x4 SP No.3(flat)

BRACING-

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

REACTIONS. (lb/size) 9=547/0-7-0 (min. 0-1-8), 6=375/0-3-8 (min. 0-1-8)

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

TOP CHORD 2-3=-873/0, 3-4=-873/0
 BOT CHORD 8-9=0/873, 7-8=0/873, 6-7=0/621
 WEBS 4-6=-685/0, 2-9=-963/0, 4-7=0/376

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 3) 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.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) CAUTION, Do not erect truss backwards.
- 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 324 lb down at 1-11-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
 Uniform Loads (plf)
 Vert: 6-9=-7, 1-5=-67

Job	Truss	Truss Type	Qty	Ply	120 BEECHLEAF - SOUTHEASTERN
2100199-2100199A	F4	FLOOR GIRDER	1	1	Job Reference (optional)

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8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 15:36:58 2021 Page 2
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LOAD CASE(S) Standard
 Concentrated Loads (lb)
 Vert: 11=-289(B)

Job 2100199-2100199A	Truss F5	Truss Type FLOOR GIRDER	Qty 1	Ply 1	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
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8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 15:37:00 2021 Page 1
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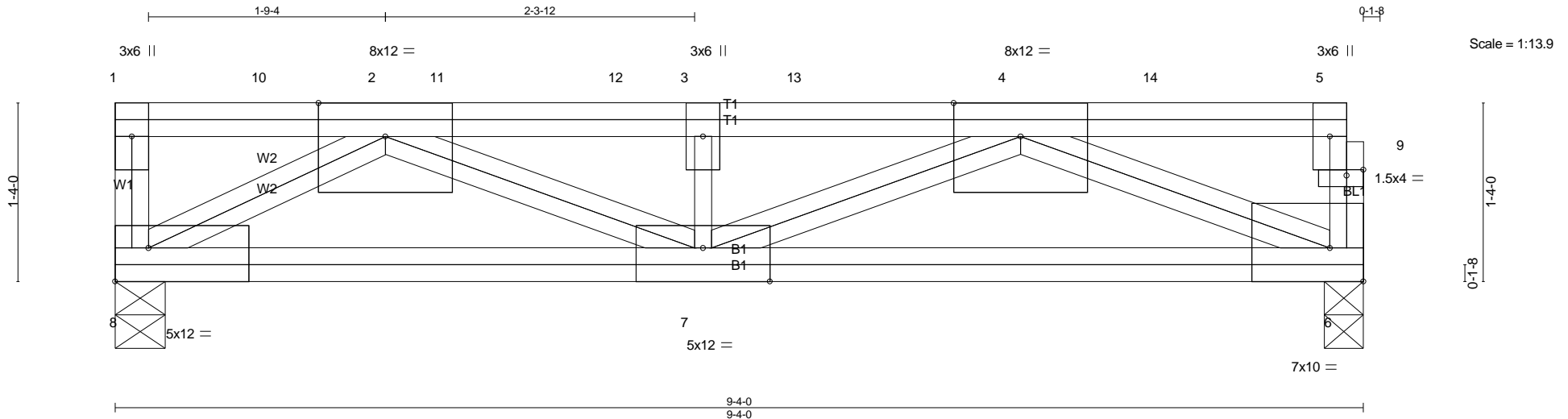


Plate Offsets (X,Y)-- [6:Edge,0-3-0], [7:0-6-0,Edge], [8:Edge,0-3-0], [9:0-1-8,0-0-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.75	Vert(LL) -0.08	7	>999	480	MT20	197/144
TCDL 10.0	Lumber DOL 1.00	BC 0.75	Vert(CT) -0.11	7	>999	360		
BCLL 0.0	Rep Stress Incr NO	WB 0.56	Horz(CT) 0.03	6	n/a	n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S						
							Weight: 89 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-

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

REACTIONS.

(lb/size) 8=2522/0-4-8 (min. 0-1-11), 6=2286/0-3-8 (min. 0-1-9)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 6-9=-291/0, 5-9=-291/0, 2-11=-5560/0, 11-12=-5560/0, 3-12=-5560/0, 3-13=-5560/0, 4-13=-5560/0
BOT CHORD 7-8=0/4056, 6-7=0/4451
WEBS 4-6=-4853/0, 4-7=0/1218, 3-7=-1191/0, 2-7=0/1657, 2-8=-4650/0

NOTES-

- As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 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.
- Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 650 lb down at 1-2-4, 247 lb down at 2-4-0, 650 lb down at 2-6-4, 650 lb down at 3-10-4, 650 lb down at 5-2-4, and 650 lb down at 6-6-4, and 650 lb down at 7-10-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

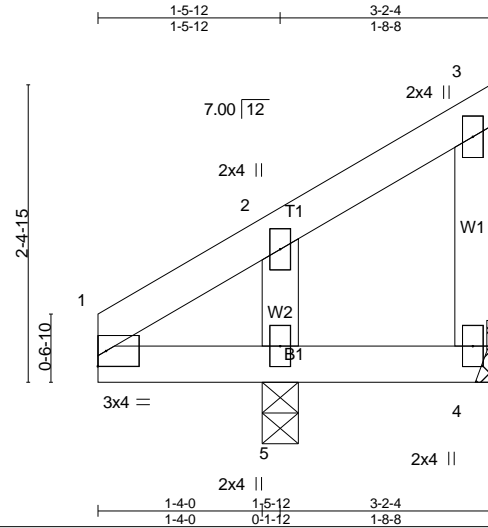
LOAD CASE(S) Standard

- Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 6-8=-7, 1-5=-67
Concentrated Loads (lb)
Vert: 4=-650(B) 2=-247(F) 10=-650(B) 11=-650(B) 12=-650(B) 13=-650(B) 14=-650(B)

Job 2100199-2100199A	Truss M6	Truss Type Monopitch	Qty 5	Ply 1	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
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8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 15:05:08 2021 Page 1
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Scale = 1:18.7

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 0.10	Vert(LL) 0.00 5 >999 240	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.09	Vert(CT) 0.00 4-5 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.03	Horz(CT) 0.00 4 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MP		Weight: 14 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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-2-4 oc purlins, except end verticals.
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) 4=6/Mechanical, 5=237/0-3-8 (min. 0-1-8)
Max Horz 5=73(LC 11)
Max Uplift 4=-48(LC 9), 5=-18(LC 12)
Max Grav 4=47(LC 10), 5=237(LC 1)

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

NOTES-

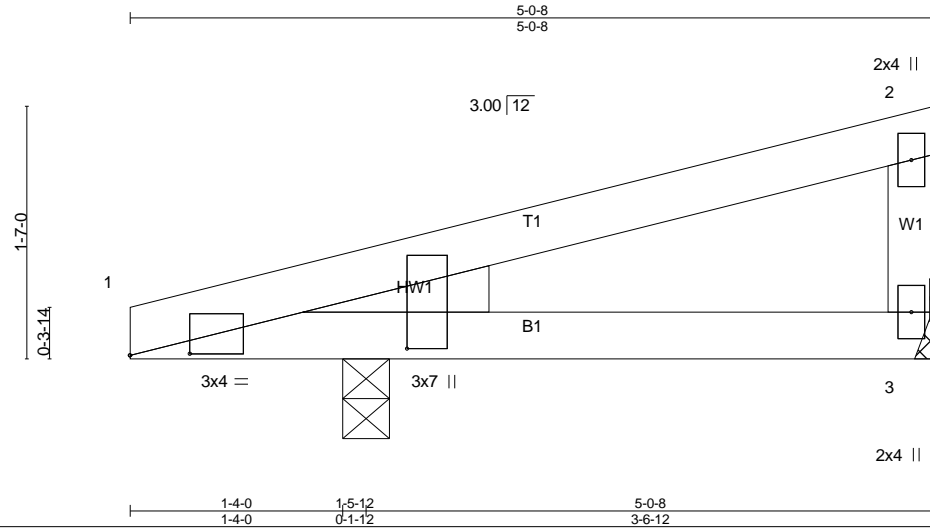
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 48 lb uplift at joint 4.
- 6) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 5. 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 2100199-2100199A	Truss M4	Truss Type Monopitch	Qty 5	Ply 1	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
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84 Components, Dunn, NC 28334

8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 15:06:35 2021 Page 1
ID:NMPehaEQ4zz9fQFsfDQ1J3zhw?Z-VnVWim?64uBj3Lh_BwwJDDu2GdBarn0_BQlkZzhvEo



Scale = 1:14.4

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.13	Vert(LL)	-0.01	3-8	>999	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.10	Vert(CT)	-0.01	3-8	>999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Horz(CT)	0.00	1	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MP						
	Code IRC2015/TPI2014						Weight: 19 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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-0-8 oc purlins, except end verticals.
 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) 3=123/Mechanical, 1=269/0-3-8 (min. 0-1-8)

Max Horz 1=50(LC 11)
 Max Uplift3=-27(LC 12), 1=-45(LC 8)

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

NOTES-

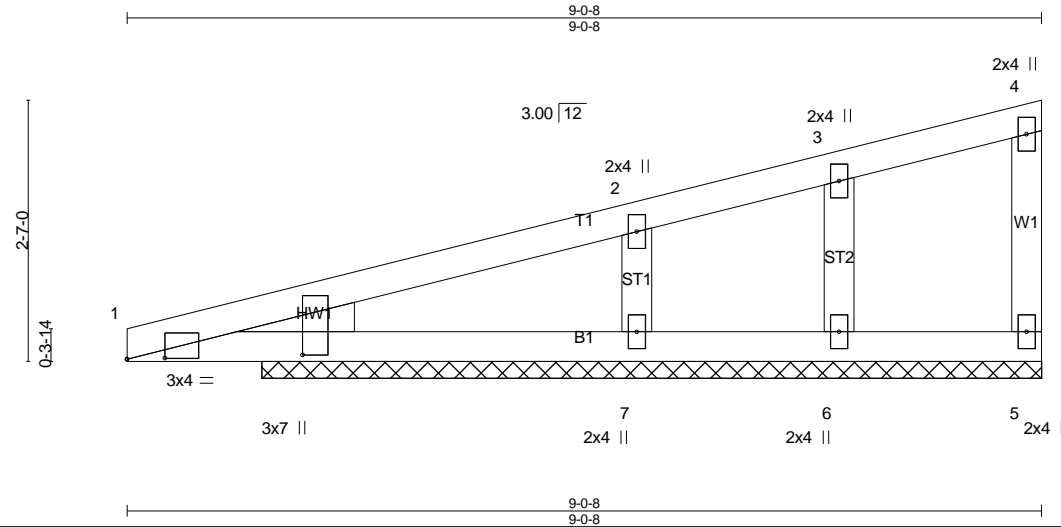
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 27 lb uplift at joint 3.
- 6) One H2.5A 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.
- 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 2100199-2100199A	Truss M2E	Truss Type Monopitch Supported Gable	Qty 1	Ply 1	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
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84 Components, Dunn, NC 28334

8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 15:14:08 2021 Page 1
ID:NMPehaEQ4zz9fQFsfDQ1J3zhw?Z-kxNmnfUGO4F2RgUI0qY9AIUG_tCeDkyh89fn8pzhv7j



Scale = 1:22.8

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

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 0.30	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.20	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.06	Horz(CT)	-0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S							
									Weight: 36 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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6'-0" oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10'-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 7-8-8.
 (lb) - Max Horz 1=92(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) 5, 6, 7, 1
 Max Grav All reactions 250 lb or less at joint(s) 5, 6, 1 except 7=425(LC 1)

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

WEBS 2-7=-305/210

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) 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; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable studs spaced at 2'-0" oc.
- 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" tall by 2'-0" wide will fit between the bottom chord and any other members.
- 6) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 5, 6, and 7. This connection is for uplift only and does not consider lateral forces.
- 7) 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.
- 8) Non Standard bearing condition. Review required.
- 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 2100199-2100199A	Truss M4E	Truss Type Monopitch Structural Gable	Qty 1	Ply 1	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
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8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 15:13:57 2021 Page 1
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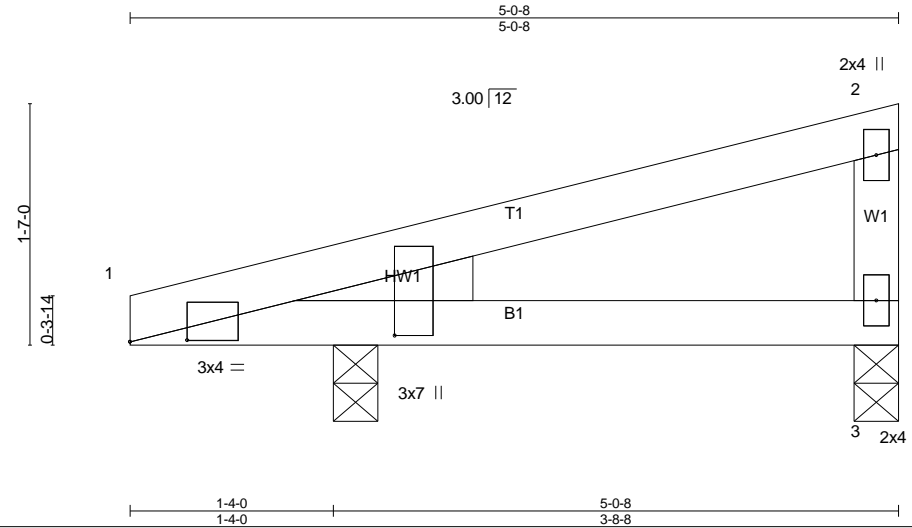


Plate Offsets (X,Y)-- [1:0-4-8,0-0-2], [1:0-0-8,1-8-13]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.13	Vert(LL)	-0.01	3-8	>999	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.10	Vert(CT)	-0.01	3-8	>999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Horz(CT)	0.00	1	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MP						
	Code IRC2015/TPI2014						Weight: 19 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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-0-8 oc purlins, except end verticals.
 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) 3=123/0-3-8 (min. 0-1-8), 1=269/0-3-8 (min. 0-1-8)

Max Horz 3=50(LC 11)
 Max Uplift 3=27(LC 12), 1=45(LC 8)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable studs spaced at 2-0-0 oc.
- 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 H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 3 and 1. 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.

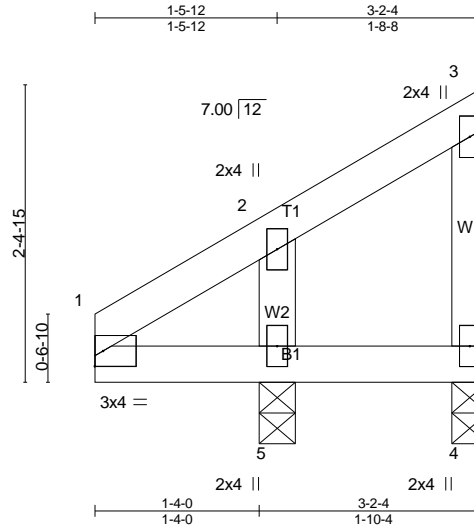
LOAD CASE(S) Standard

Job 2100199-2100199A	Truss M6E	Truss Type Monopitch Structural Gable	Qty 2	Ply 1	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
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Scale = 1:18.7

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 0.10	Vert(LL) 0.00 5 >999 240	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.09	Vert(CT) 0.00 4-5 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.03	Horz(CT) -0.00 5 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MP			
				Weight: 14 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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-2-4 oc purlins, except end verticals.
 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) 4=6/0-3-8 (min. 0-1-8), 5=237/0-3-8 (min. 0-1-8)
 Max Horz 4=73(LC 11)
 Max Uplift 4=-48(LC 9), 5=-18(LC 12)
 Max Grav 4=47(LC 10), 5=237(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) 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; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable studs spaced at 2-0-0 oc.
- 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 H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 4 and 5. 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 2100199-2100199A	Truss F1	Truss Type Floor	Qty 6	Ply 1	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
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8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 15:36:52 2021 Page 1
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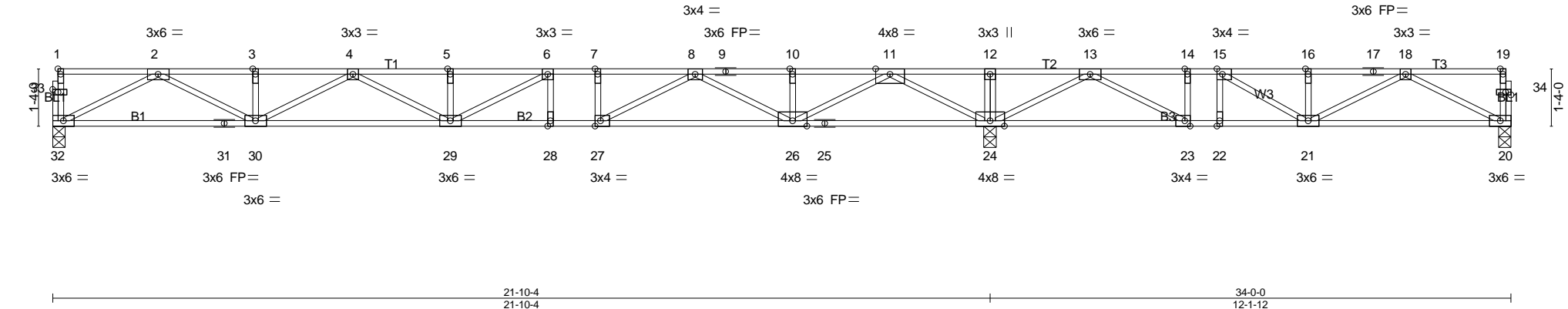
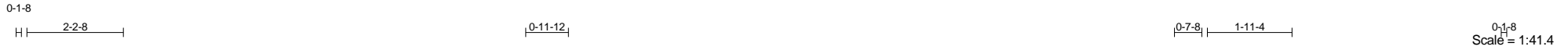


Plate Offsets (X,Y)-- [1:Edge,0-0-12], [15:0-1-8,Edge], [23:0-1-8,Edge], [27:0-1-8,Edge], [33:0-1-8,0-0-12], [34:0-1-8,0-0-12]

LOADING (psf)	SPACING- 1-4-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.82	Vert(LL) -0.29 28-29 >894 480	MT20	197/144
TCDL 10.0	Lumber DOL 1.00	BC 0.74	Vert(CT) -0.39 28-29 >663 360		
BCLL 0.0	Rep Stress Incr YES	WB 0.69	Horz(CT) 0.04 24 n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S			Weight: 174 lb FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

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

REACTIONS. (lb/size) 32=665/0-3-8 (min. 0-1-8), 20=205/0-3-8 (min. 0-1-8), 24=1597/0-3-8 (min. 0-1-8)
Max Uplift 20=-89(LC 3)
Max Grav 32=677(LC 3), 20=350(LC 4), 24=1597(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1978/0, 3-4=-1978/0, 4-5=-2662/0, 5-6=-2662/0, 6-7=-2386/0, 7-8=-2386/0, 8-9=-782/13, 9-10=-782/13, 10-11=-782/13, 11-12=0/2246, 12-13=0/2246, 13-14=-562/926, 14-15=-562/926, 15-16=-744/480, 16-17=-744/480, 17-18=-744/480
BOT CHORD 31-32=0/1166, 30-31=0/1166, 29-30=0/2453, 28-29=0/2386, 27-28=0/2386, 26-27=0/1695, 25-26=-679/0, 24-25=-679/0, 23-24=-1483/13, 22-23=-926/562, 21-22=-926/562, 20-21=-217/538
WEBS 2-32=-1310/0, 11-24=-1780/0, 2-30=0/919, 11-26=0/1440, 4-30=-538/0, 8-26=-1060/0, 8-27=0/867, 6-29=-94/534, 18-20=-602/245, 13-24=-1240/0, 18-21=-298/234, 13-23=0/976, 14-23=-291/0, 15-21=0/661

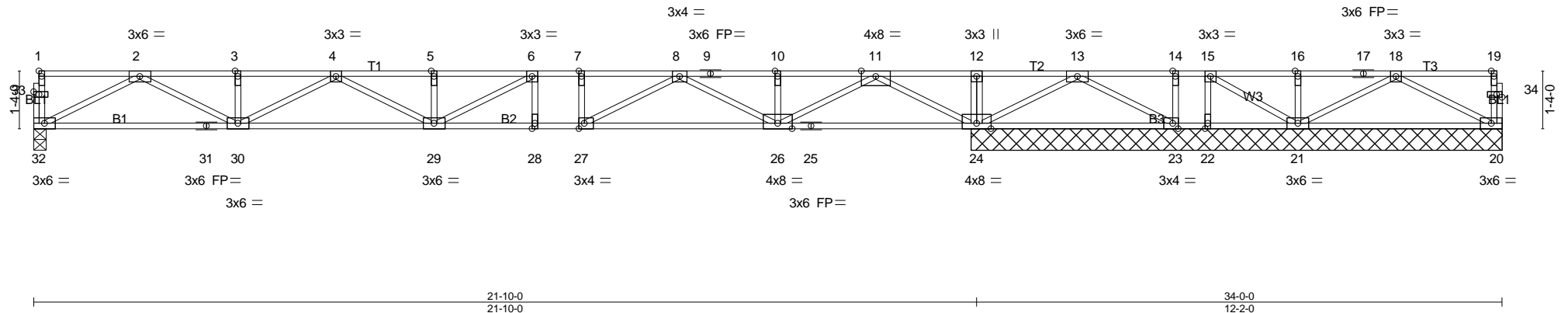
- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
 - 3) All plates are 1.5x4 MT20 unless otherwise indicated.
 - 4) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 20. This connection is for uplift only and does not consider lateral forces.
 - 5) 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.
 - 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 7) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

Job 2100199-2100199A	Truss F2	Truss Type Floor	Qty 1	Ply 1	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
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8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 15:36:55 2021 Page 1
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	1-4-0	TC 0.84	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.00	BC 0.72	Vert(LL) -0.27 28-29 >965 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.69	Vert(CT) -0.37 28-29 >707 360		
BCDL 5.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.04 24 n/a n/a		
	Code IRC2015/TPI2014				Weight: 174 lb FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

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

REACTIONS. All bearings 12-3-8 except (jt=length) 32=0-3-8.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) except 23=-371(LC 1)
Max Grav All reactions 250 lb or less at joint(s) 20, 22 except 32=656(LC 1), 24=1680(LC 1), 21=257(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1898/0, 3-4=-1898/0, 4-5=-2506/0, 5-6=-2506/0, 6-7=-2181/0, 7-8=-2181/0, 8-9=-496/0, 9-10=-496/0, 10-11=-496/0, 11-12=0/2372, 12-13=0/2372
BOT CHORD 31-32=0/1126, 30-31=0/1126, 29-30=0/2334, 28-29=0/2181, 27-28=0/2181, 26-27=0/1446, 25-26=-782/0, 24-25=-782/0, 23-24=-1129/0
WEBS 2-32=-1265/0, 11-24=-1790/0, 2-30=0/875, 11-26=0/1448, 4-30=-494/0, 8-26=-1077/0, 8-27=0/862, 7-27=-252/0, 6-29=-94/530, 13-24=-1400/0, 13-23=0/1046

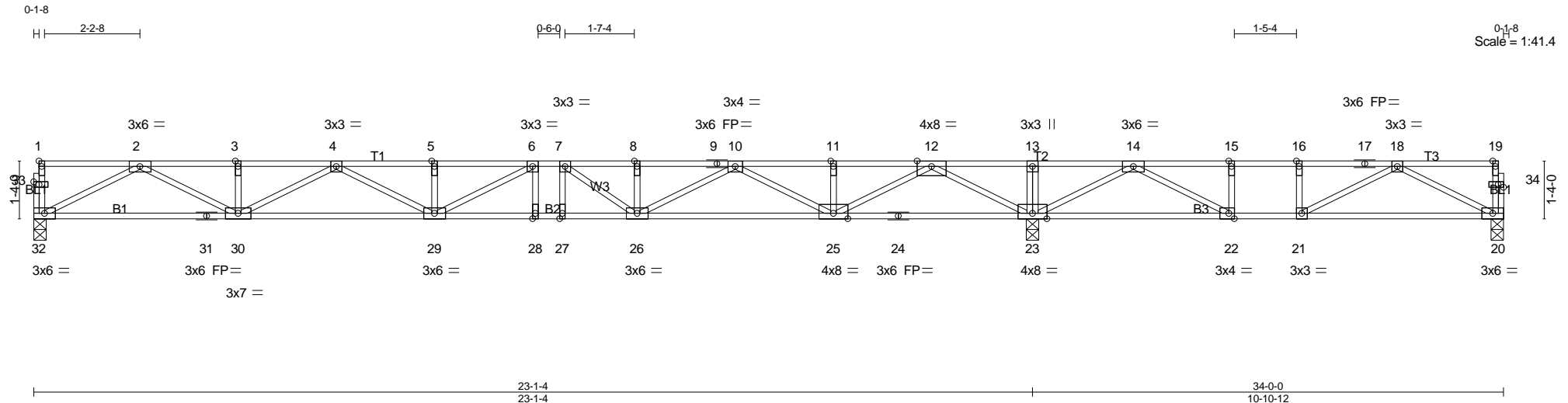
NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
3) All plates are 1.5x4 MT20 unless otherwise indicated.
4) Two H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 23. This connection is for uplift only and does not consider lateral forces.
5) 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.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

Job 2100199-2100199A	Truss F3	Truss Type Floor	Qty 3	Ply 1	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
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8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 15:36:56 2021 Page 1
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LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.42	Vert(LL)	-0.27 28-29 >999 480	MT20	244/190	Weight: 173 lb FT = 20%F, 11%E	
TCDL	10.0	Lumber DOL	1.00	BC	0.35	Vert(CT)	-0.37 28-29 >743 360				
BCLL	0.0	Rep Stress Incr	YES	WB	0.72	Horz(CT)	0.05 23 n/a n/a				
BCDL	5.0	Code IRC2015/TPI2014		Matrix-S							

LUMBER-
 TOP CHORD 2x4 SP DSS(flat)
 BOT CHORD 2x4 SP DSS(flat)
 WEBS 2x4 SP No.3(flat)

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

REACTIONS. (lb/size) 32=726/0-3-8 (min. 0-1-8), 20=152/0-3-8 (min. 0-1-8), 23=1588/0-3-8 (min. 0-1-8)
 Max Uplift20=-116(LC 3)
 Max Grav32=736(LC 10), 20=310(LC 4), 23=1588(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2203/0, 3-4=-2203/0, 4-5=-3095/0, 5-6=-3095/0, 6-7=-3010/0, 7-8=-2679/0, 8-9=-2679/0, 9-10=-2679/0, 10-11=-1049/0, 11-12=-1049/0, 12-13=0/2153, 13-14=0/2153, 14-15=-522/740, 15-16=-522/740, 16-17=-522/740, 17-18=-522/740
 BOT CHORD 31-32=0/1280, 30-31=0/1280, 29-30=0/2788, 28-29=0/3010, 27-28=0/3010, 26-27=0/3010, 25-26=0/2013, 24-25=-517/0, 23-24=-517/0, 22-23=-1395/51, 21-22=-740/522, 20-21=-271/460
 WEBS 2-32=-1438/0, 12-23=-1857/0, 2-30=0/1045, 12-25=0/1518, 4-30=-662/0, 10-25=-1122/0, 4-29=0/348, 10-26=0/784, 6-29=-219/366, 7-26=-572/0, 18-20=-515/305, 14-23=-1155/0, 18-21=-532/70, 14-22=0/992, 15-22=-349/0

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
 - 3) All plates are 1.5x4 MT20 unless otherwise indicated.
 - 4) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 20. This connection is for uplift only and does not consider lateral forces.
 - 5) 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.
 - 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 7) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

Job 2100199-2100199A	Truss F4	Truss Type FLOOR GIRDER	Qty 1	Ply 1	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
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84 Components, Dunn, NC 28334

8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 15:36:58 2021 Page 1
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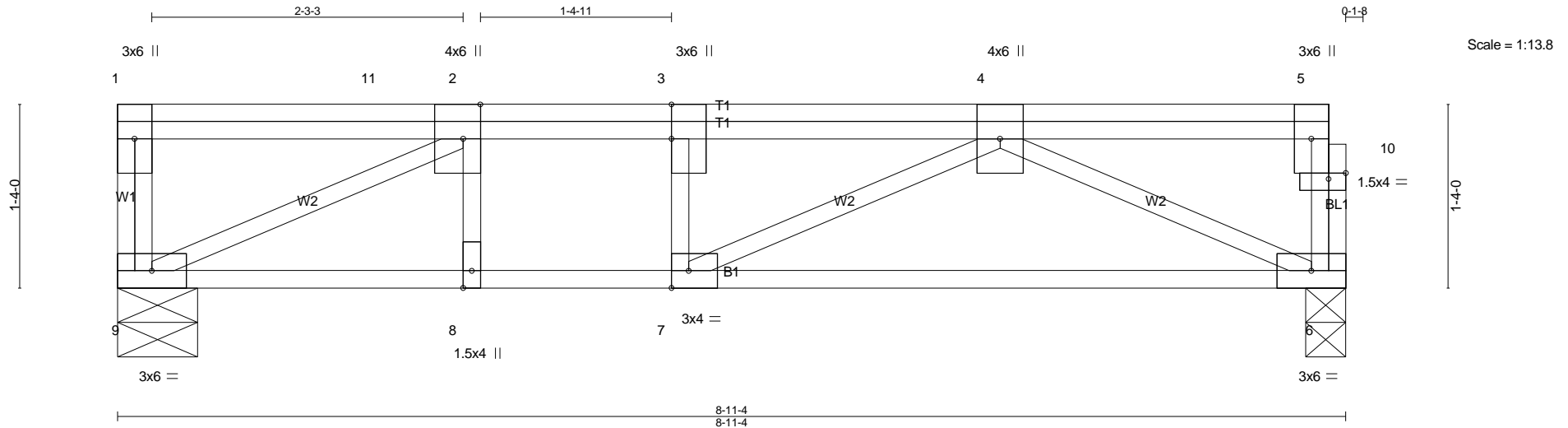


Plate Offsets (X,Y)-- [2:0-3-0,Edge], [3:0-3-0,0-0-0], [7:0-1-8,Edge], [10:0-1-8,0-0-8]

LOADING (psf)	SPACING-	1-4-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.37	Vert(LL)	-0.02	8-9	>999	MT20	197/144
TCDL 10.0	Lumber DOL	1.00	BC 0.35	Vert(CT)	-0.04	6-7	>999		
BCLL 0.0	Rep Stress Incr	NO	WB 0.25	Horz(CT)	0.01	6	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 59 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-

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

REACTIONS. (lb/size) 9=547/0-7-0 (min. 0-1-8), 6=375/0-3-8 (min. 0-1-8)

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

TOP CHORD 2-3=-873/0, 3-4=-873/0
BOT CHORD 8-9=0/873, 7-8=0/873, 6-7=0/621
WEBS 4-6=-685/0, 2-9=-963/0, 4-7=0/376

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 3) 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.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) CAUTION, Do not erect truss backwards.
- 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 324 lb down at 1-11-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 6-9=-7, 1-5=-67

Job	Truss	Truss Type	Qty	Ply	120 BEECHLEAF - SOUTHEASTERN
2100199-2100199A	F4	FLOOR GIRDER	1	1	Job Reference (optional)

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LOAD CASE(S) Standard
 Concentrated Loads (lb)
 Vert: 11=-289(B)

Job 2100199-2100199A	Truss F5	Truss Type FLOOR GIRDER	Qty 1	Ply 1	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
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8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 15:37:00 2021 Page 1
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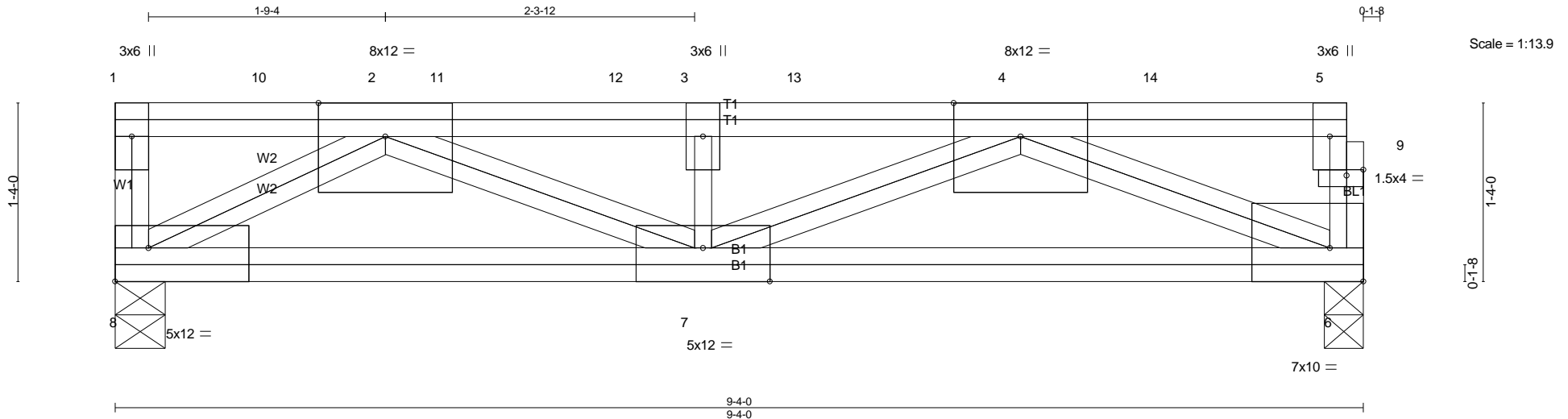


Plate Offsets (X,Y)-- [6:Edge,0-3-0], [7:0-6-0,Edge], [8:Edge,0-3-0], [9:0-1-8,0-0-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	1-4-0	TC 0.75	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.00	BC 0.75	Vert(LL) -0.08 7 >999 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.56	Vert(CT) -0.11 7 >999 360		
BCDL 5.0	Rep Stress Incr NO	Matrix-S	Horz(CT) 0.03 6 n/a n/a		
	Code IRC2015/TPI2014			Weight: 89 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
 WEBS 2x4 SP No.3(flat)

BRACING-

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

REACTIONS.

(lb/size) 8=2522/0-4-8 (min. 0-1-11), 6=2286/0-3-8 (min. 0-1-9)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 6-9=-291/0, 5-9=-291/0, 2-11=-5560/0, 11-12=-5560/0, 3-12=-5560/0, 3-13=-5560/0, 4-13=-5560/0
 BOT CHORD 7-8=0/4056, 6-7=0/4451
 WEBS 4-6=-4853/0, 4-7=0/1218, 3-7=-1191/0, 2-7=0/1657, 2-8=-4650/0

NOTES-

- As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 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.
- Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 650 lb down at 1-2-4, 247 lb down at 2-4-0, 650 lb down at 2-6-4, 650 lb down at 3-10-4, 650 lb down at 5-2-4, and 650 lb down at 6-6-4, and 650 lb down at 7-10-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

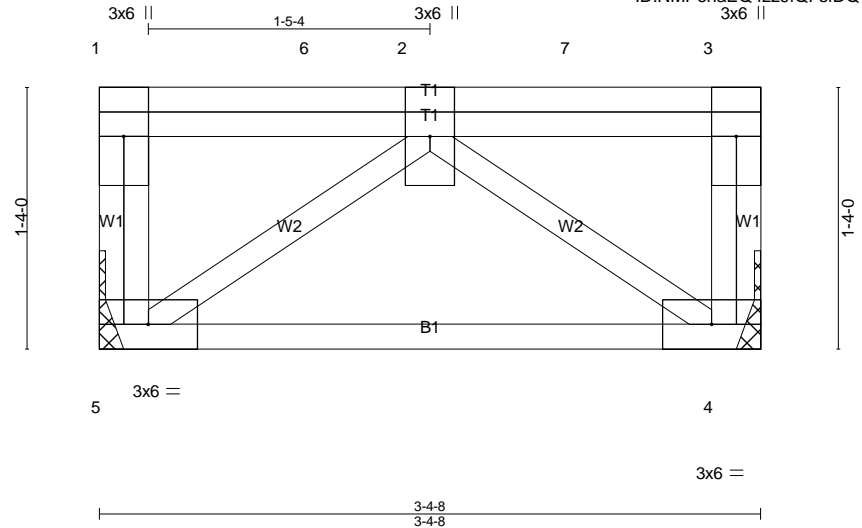
LOAD CASE(S) Standard

- Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
 Uniform Loads (plf)
 Vert: 6-8=-7, 1-5=-67
 Concentrated Loads (lb)
 Vert: 4=-650(B) 2=-247(F) 10=-650(B) 11=-650(B) 12=-650(B) 13=-650(B) 14=-650(B)

Job 2100199-2100199A	Truss F6	Truss Type FLOOR GIRDER	Qty 1	Ply 1	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
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84 Components, Dunn, NC 28334

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8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 15:37:02 2021 Page 1



Scale = 1:11.8

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	1-4-0	TC 0.15	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.00	BC 0.14	Vert(LL) 0.00 5 **** 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.08	Vert(CT) -0.01 4-5 >999 360		
BCDL 5.0	Rep Stress Incr NO	Matrix-P	Horz(CT) 0.00 4 n/a n/a	Weight: 26 lb	FT = 20%F, 11%E
	Code IRC2015/TPI2014				

LUMBER-

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
 WEBS 2x4 SP No.3(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-4-8 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 5=291/Mechanical, 4=333/Mechanical

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

BOT CHORD 4-5=0/281
 WEBS 2-5=-348/0, 2-4=-348/0

NOTES-

- As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- Refer to girder(s) for truss to truss connections.
- 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.
- Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 198 lb down at 1-2-4, and 198 lb down at 2-6-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

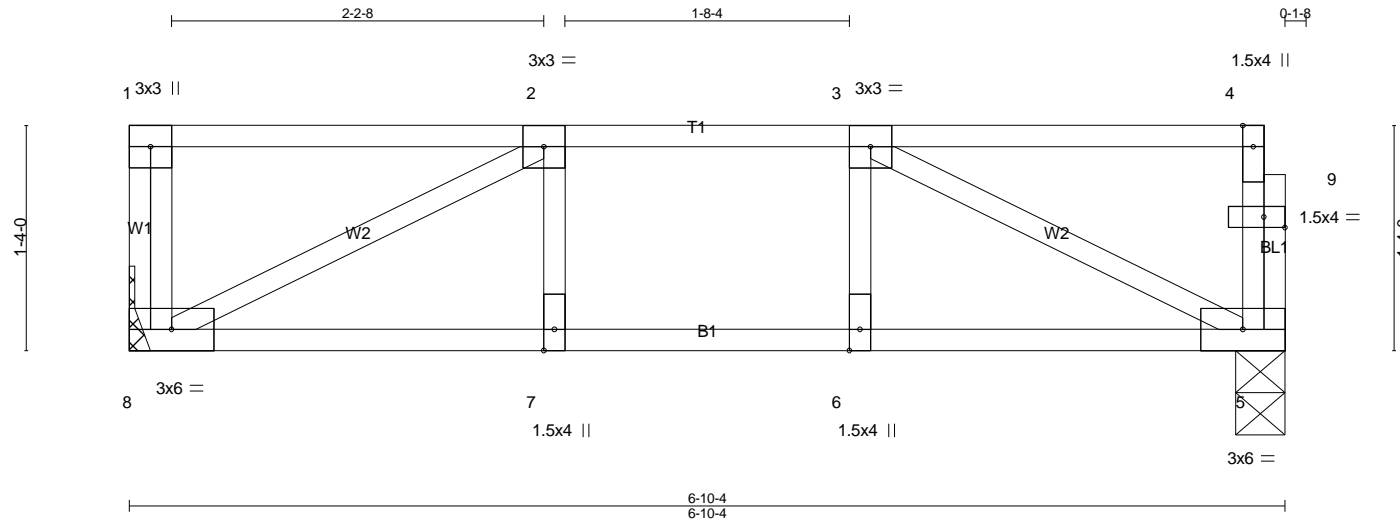
LOAD CASE(S) Standard

- Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
 Uniform Loads (plf)
 Vert: 4-5=-7, 1-3=-67
 Concentrated Loads (lb)
 Vert: 6=-198(B) 7=-198(B)

Job 2100199-2100199A	Truss F7	Truss Type Floor	Qty 2	Ply 1	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
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Scale = 1:13.7

Plate Offsets (X,Y)-- [9:0-1-8,0-0-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	1-4-0	TC 0.25	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.00	BC 0.20	Vert(LL) -0.02 7-8 >999 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.10	Vert(CT) -0.03 7-8 >999 360		
BCDL 5.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 5 n/a n/a		
	Code IRC2015/TPI2014			Weight: 37 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-

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

REACTIONS. (lb/size) 8=242/Mechanical, 5=238/0-3-8 (min. 0-1-8)

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

TOP CHORD 2-3=-332/0
BOT CHORD 7-8=0/332, 6-7=0/332, 5-6=0/332
WEBS 3-5=-368/0, 2-8=-372/0

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 3) Refer to girder(s) for truss to truss connections.
- 4) 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.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

Job 2100199-2100199A	Truss F10	Truss Type Floor	Qty 6	Ply 1	120 BEECHLEAF - SOUTHEASTERN
84 Components, Dunn, NC 28334					Job Reference (optional)

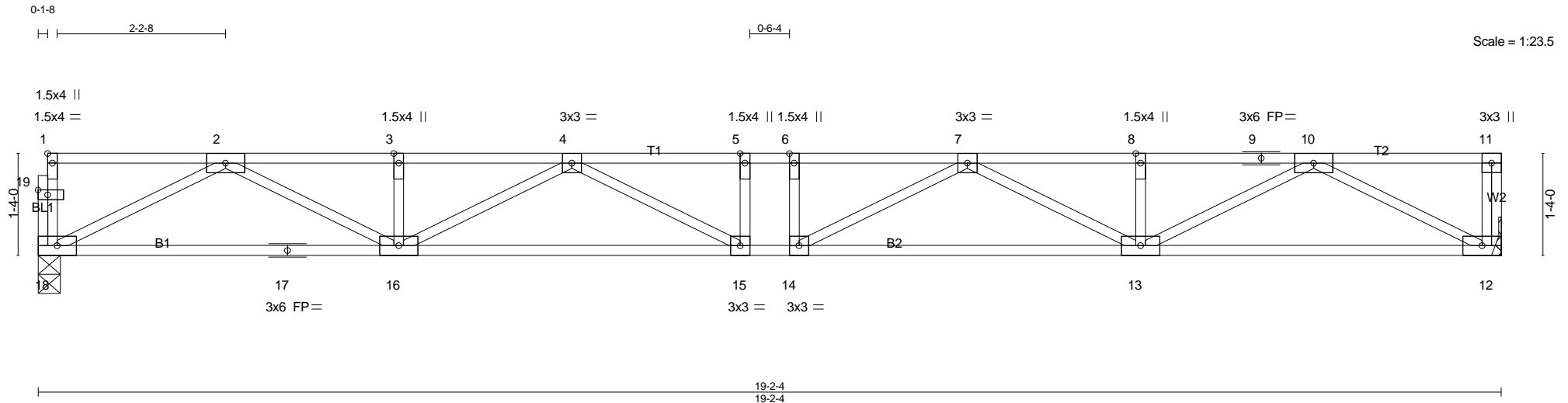


Plate Offsets (X,Y)-- [1:Edge,0-0-12], [19:0-1-8,0-0-12]

LOADING (psf)	SPACING-	1-4-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 40.0	Plate Grip DOL	1.00	TC 0.32	Vert(LL)	-0.23	15	>999	480	MT20	197/144
TCDL 10.0	Lumber DOL	1.00	BC 0.74	Vert(CT)	-0.31	15	>733	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.45	Horz(CT)	0.06	12	n/a	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-S							
									Weight: 99 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-

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

REACTIONS. (lb/size) 18=690/0-3-8 (min. 0-1-8), 12=694/Mechanical

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

TOP CHORD 2-3=-2028/0, 3-4=-2028/0, 4-5=-2729/0, 5-6=-2729/0, 6-7=-2729/0, 7-8=-2028/0, 8-9=-2028/0, 9-10=-2028/0
BOT CHORD 17-18=0/1192, 16-17=0/1192, 15-16=0/2528, 14-15=0/2729, 13-14=0/2528, 12-13=0/1194
WEBS 10-12=-1344/0, 2-18=-1339/0, 10-13=0/945, 2-16=0/946, 7-13=-567/0, 4-16=-567/0, 7-14=-66/402, 4-15=-65/402

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 3) All plates are 3x6 MT20 unless otherwise indicated.
- 4) Refer to girder(s) for truss to truss connections.
- 5) 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.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 7) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

Job 2100199-2100199A	Truss F10E	Truss Type Floor Supported Gable	Qty 1	Ply 1	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
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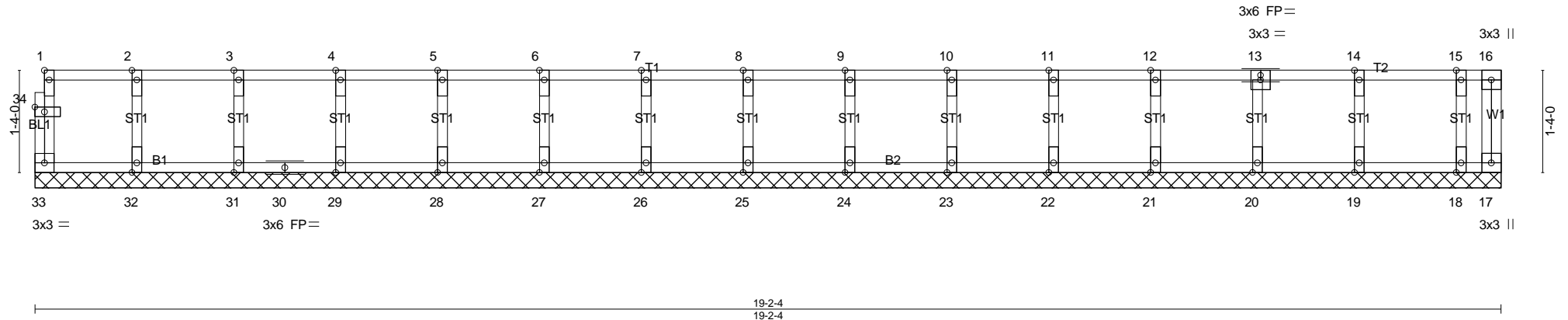


Plate Offsets (X,Y)-- [1:Edge,0-0-12], [34:0-1-8,0-0-12]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.08	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.00	BC 0.03	Vert(CT)	n/a	-	n/a		
BCLL 0.0	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	17	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-R						
								Weight: 86 lb	FT = 20%F, 11%E

LUMBER-

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

BRACING-

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

REACTIONS.

All bearings 19-2-4.
 (lb) - Max Grav All reactions 250 lb or less at joint(s) 33, 17, 32, 31, 29, 28, 27, 26, 25, 24, 23, 22, 21, 20, 19, 18

FORCES.

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

NOTES-

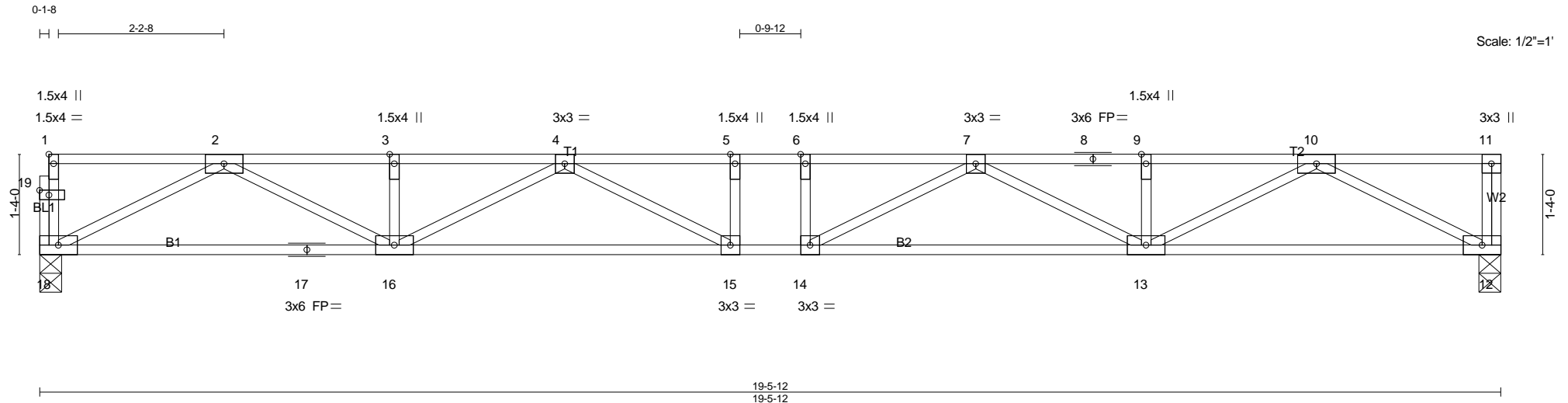
- As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- 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.
- Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

Job 2100199-2100199A	Truss F11	Truss Type Floor	Qty 7	Ply 1	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
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8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 15:37:09 2021 Page 1
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LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES		GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.37	Vert(LL)	-0.24	15	>966	480	MT20	197/144	
TCDL	10.0	Lumber DOL	1.00	BC	0.76	Vert(CT)	-0.33	15	>704	360	Weight: 100 lb FT = 20%F, 11%E		
BCLL	0.0	Rep Stress Incr	YES	WB	0.46	Horz(CT)	0.06	12	n/a	n/a			
BCDL	5.0	Code IRC2015/TPI2014		Matrix-S									

LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
WEBS 2x4 SP No.3(flat)

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

REACTIONS. (lb/size) 18=701/0-3-8 (min. 0-1-8), 12=705/0-3-8 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2069/0, 3-4=-2069/0, 4-5=-2809/0, 5-6=-2809/0, 6-7=-2809/0, 7-8=-2068/0, 8-9=-2068/0, 9-10=-2068/0
BOT CHORD 17-18=0/1213, 16-17=0/1213, 15-16=0/2589, 14-15=0/2809, 13-14=0/2589, 12-13=0/1214
WEBS 10-12=-1368/0, 2-18=-1362/0, 10-13=0/967, 2-16=0/969, 7-13=-590/0, 4-16=-589/0, 7-14=-55/436, 4-15=-55/436

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
 - 3) All plates are 3x6 MT20 unless otherwise indicated.
 - 4) 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.
 - 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

Job 2100199-2100199A	Truss F12	Truss Type Floor	Qty 1	Ply 1	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
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8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 15:37:10 2021 Page 1
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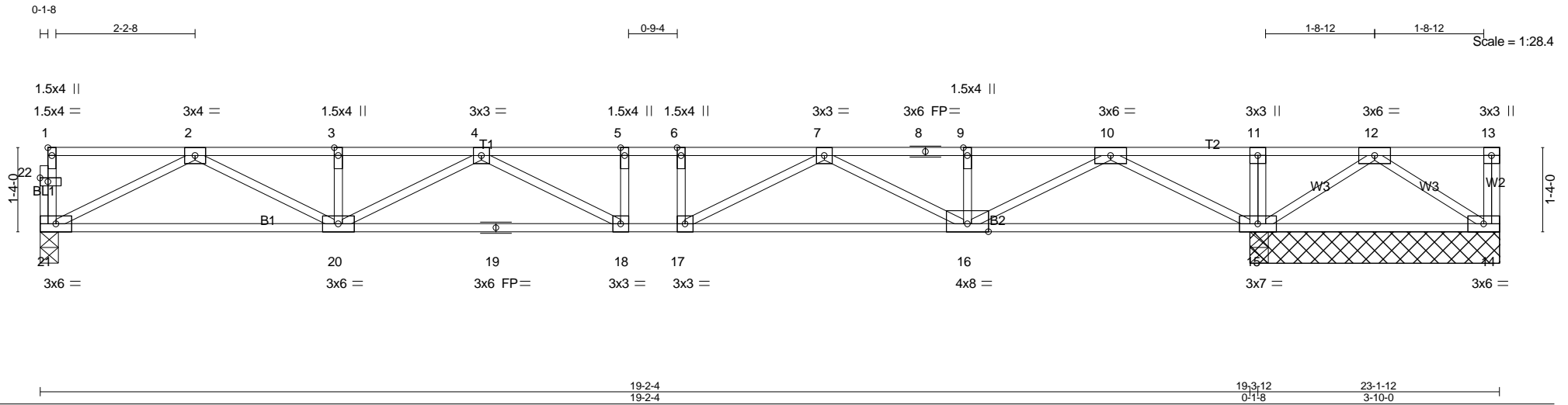


Plate Offsets (X,Y)-- [1:Edge,0-0-12], [22:0-1-8,0-0-12]

LOADING (psf)	SPACING-	1-4-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.68	Vert(LL)	-0.17	18-20	>999	MT20	197/144
TCDL 10.0	Lumber DOL	1.00	BC 0.64	Vert(CT)	-0.25	18-20	>929		
BCLL 0.0	Rep Stress Incr	YES	WB 0.58	Horz(CT)	0.03	15	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 120 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-

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

REACTIONS. (lb/size) 21=576/0-3-8 (min. 0-1-8), 15=1597/3-11-8 (min. 0-1-8), 15=1597/3-11-8 (min. 0-1-8), 14=-498/3-11-8 (min. 0-1-8)
Max Uplift 14=-498(LC 1)

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

TOP CHORD 2-3=-1596/0, 3-4=-1596/0, 4-5=-1820/0, 5-6=-1820/0, 6-7=-1820/0, 7-8=-573/0, 8-9=-573/0, 9-10=-573/0, 10-11=0/1906,
11-12=0/1904

BOT CHORD 20-21=0/975, 19-20=0/1881, 18-19=0/1881, 17-18=0/1820, 16-17=0/1323, 15-16=-511/0, 14-15=-852/0

WEBS 2-21=-1094/0, 10-15=-1573/0, 2-20=0/703, 10-16=0/1227, 4-20=-323/0, 7-16=-849/0, 7-17=0/617, 12-15=-1254/0, 12-14=0/1017

NOTES-

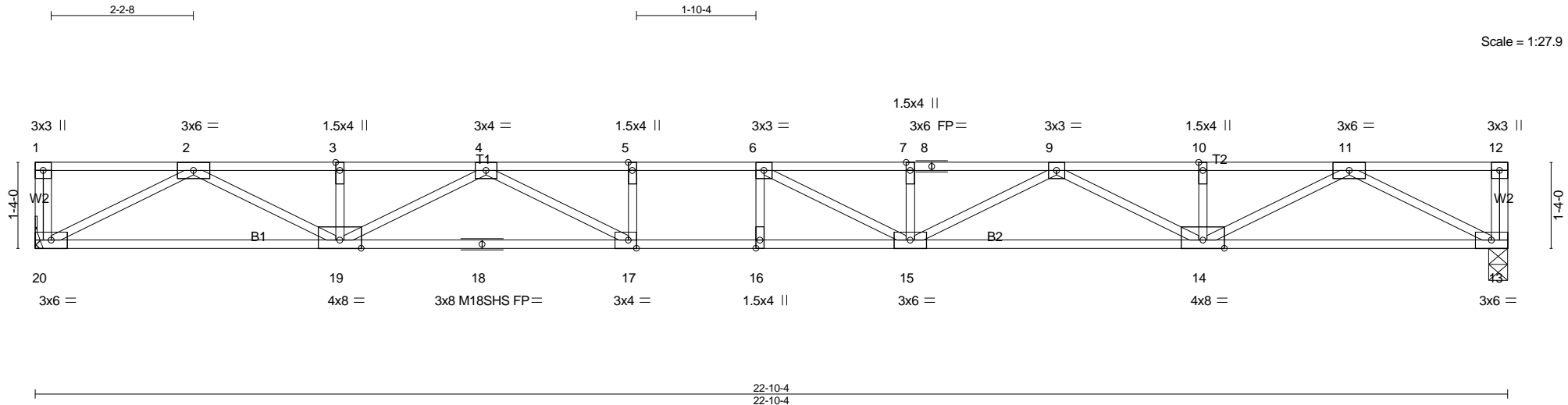
- Unbalanced floor live loads have been considered for this design.
- As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- Two H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 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.
- Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

Job 2100199-2100199A	Truss F14	Truss Type Floor	Qty 8	Ply 1	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
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8.400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 15:37:14 2021 Page 1
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LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.36	Vert(LL)	-0.37 15-16 >729 480	MT20	244/190		
TCDL	10.0	Lumber DOL	1.00	BC	0.53	Vert(CT)	-0.51 15-16 >532 360	M18SHS	244/190		
BCLL	0.0	Rep Stress Incr	YES	WB	0.59	Horz(CT)	0.07 13 n/a n/a			Weight: 115 lb	FT = 20%F, 11%E
BCDL	5.0	Code IRC2015/TPI2014		Matrix-S							

LUMBER-
 TOP CHORD 2x4 SP DSS(flat)
 BOT CHORD 2x4 SP DSS(flat)
 WEBS 2x4 SP No.3(flat)

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

REACTIONS. (lb/size) 20=829/Mechanical, 13=829/0-3-8 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2535/0, 3-4=-2535/0, 4-5=-3810/0, 5-6=-3810/0, 6-7=-3768/0, 7-8=-3768/0, 8-9=-3768/0, 9-10=-2538/0, 10-11=-2538/0
 BOT CHORD 19-20=0/1448, 18-19=0/3289, 17-18=0/3289, 16-17=0/3810, 15-16=0/3810, 14-15=0/3288, 13-14=0/1451
 WEBS 11-13=-1634/0, 2-20=-1631/0, 11-14=0/1231, 2-19=0/1230, 9-14=-850/0, 4-19=-854/0, 9-15=0/544, 4-17=0/777, 6-15=-455/289

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
 - 3) All plates are MT20 plates unless otherwise indicated.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) 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.
 - 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

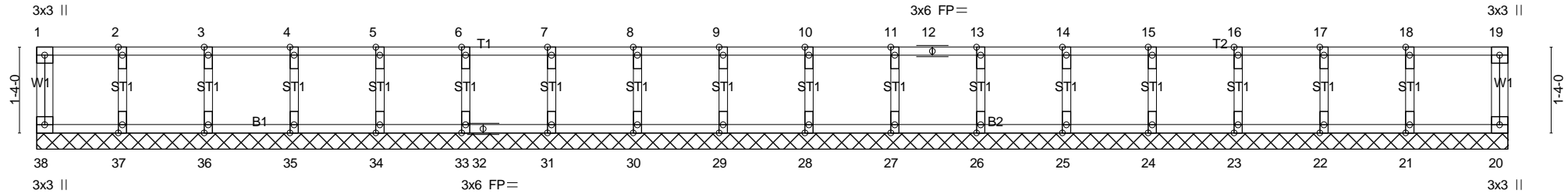
LOAD CASE(S) Standard

Job 2100199-2100199A	Truss F14E	Truss Type Floor Supported Gable	Qty 1	Ply 1	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
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8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 15:37:16 2021 Page 1
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Scale = 1:27.9



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.08	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.00	BC 0.02	Vert(LL) n/a - n/a 999		
BCLL 0.0	Lumber DOL 1.00	WB 0.03	Vert(CT) n/a - n/a 999		
BCDL 5.0	Rep Stress Incr YES	Matrix-R	Horz(CT) 0.00 20 n/a n/a		
	Code IRC2015/TPI2014			Weight: 100 lb	FT = 20%F, 11%E

LUMBER-

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

BRACING-

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

REACTIONS.

All bearings 22-10-4.
 (lb) - Max Grav All reactions 250 lb or less at joint(s) 38, 20, 37, 36, 35, 34, 33, 31, 30, 29, 28, 27, 26, 25, 24, 23, 22, 21

FORCES.

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

NOTES-

- As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- 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.
- Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

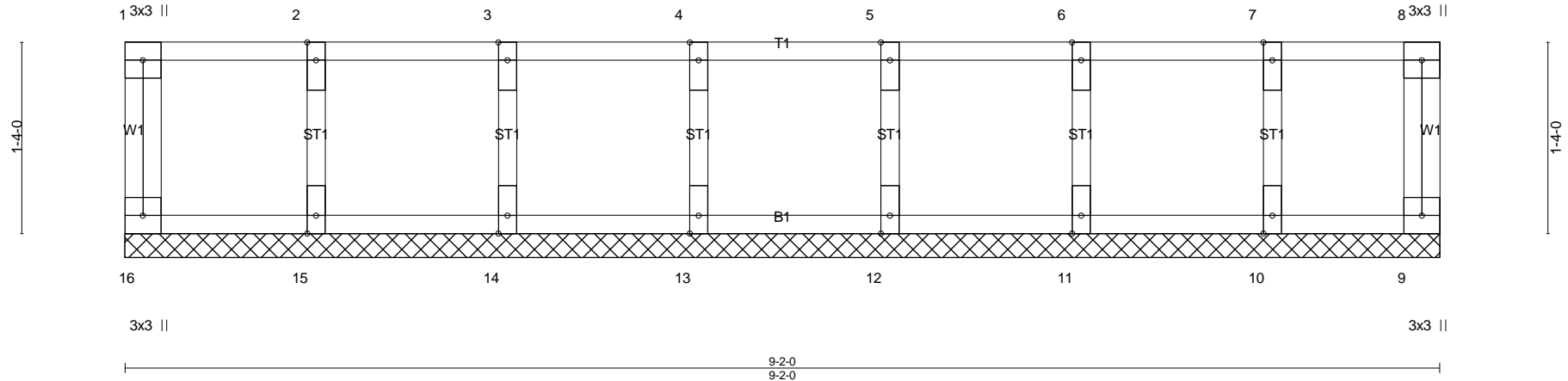
LOAD CASE(S) Standard

Job 2100199-2100199A	Truss F15	Truss Type Floor Supported Gable	Qty 1	Ply 1	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
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8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 15:37:19 2021 Page 1
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Scale = 1:13.8



LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.08	Vert(LL) n/a - n/a 999	MT20	197/144
TCDL 10.0	Lumber DOL 1.00	BC 0.01	Vert(CT) n/a - n/a 999		
BCLL 0.0	Rep Stress Incr YES	WB 0.03	Horz(CT) 0.00 9 n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-R			
				Weight: 43 lb	FT = 20%F, 11%E

LUMBER-

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

BRACING-

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

REACTIONS.

All bearings 9-2-0.
 (lb) - Max Grav All reactions 250 lb or less at joint(s) 16, 9, 15, 14, 13, 12, 11, 10

FORCES.

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

NOTES-

- As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- 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.
- Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard