Job	Truss	Truss Type	Qty	Ply	HUBLER RES.
4296478	V06	Valley	2	1	T35583165
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Nov 18 07:12:10 2024 Page 1
ID:y4QiaC6?UfFp4_P2xWz6BjzxAPb-ZaNTE0YO3z6SjZzC7Bw_D5KPNfmbvPoZbxQoDNyl0jJ

1-7-3 3-2-6
1-7-3 1-7-3

Scale: 1.5"=1'

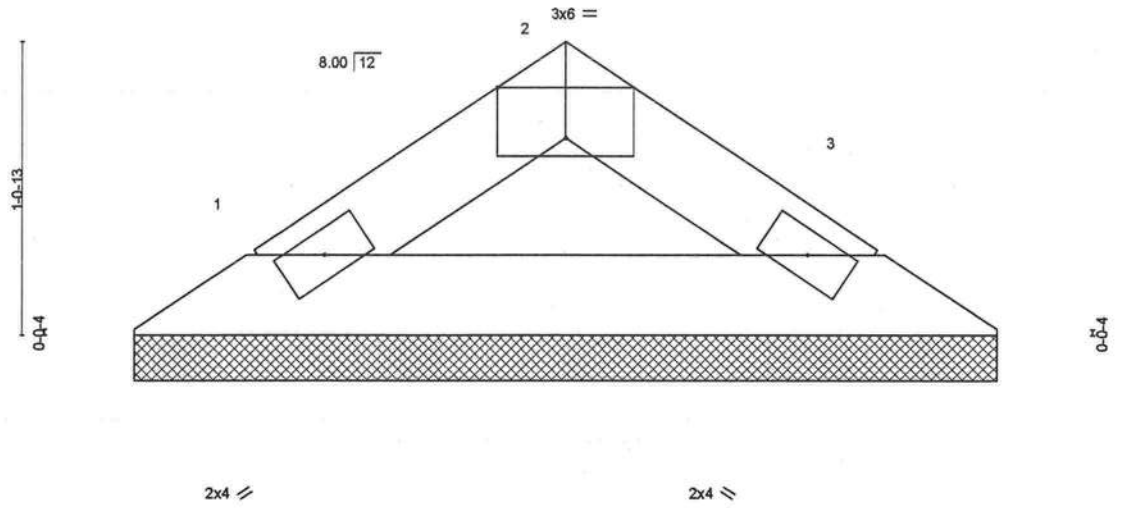

Plate Offsets (X,Y)-- [2:0-3-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.06	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-P							Weight: 9 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-2-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=3-1-10, 3=3-1-10
Max Horz 1=-24(LC 8)
Max Uplift 1=-31(LC 12), 3=-31(LC 13)
Max Grav 1=83(LC 1), 3=83(LC 1)

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 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 18,2024

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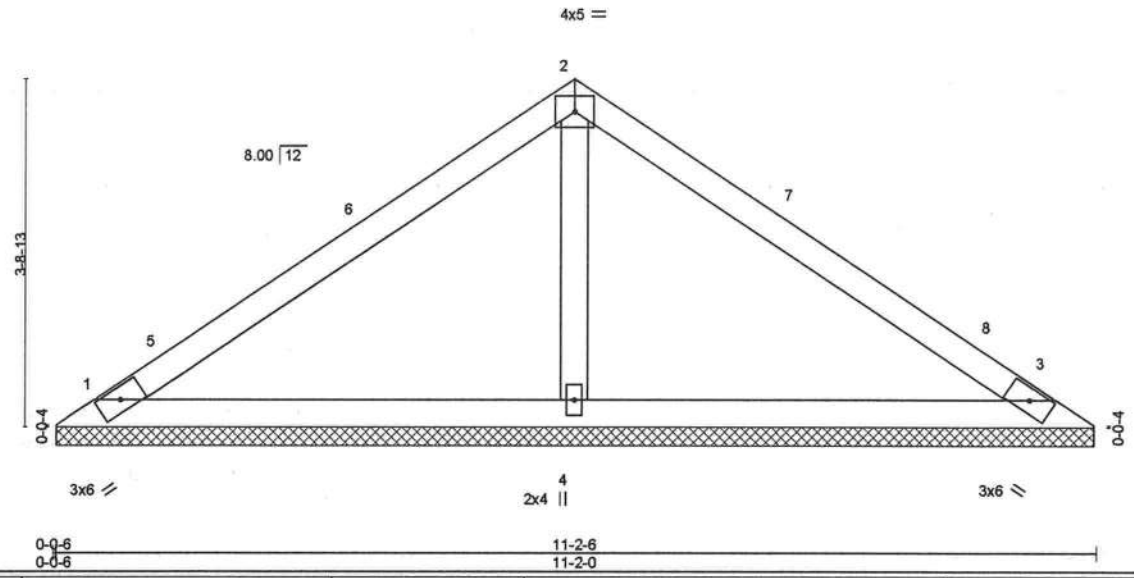
Job	Truss	Truss Type	Qty	Ply	HUBLER RES.
4296478	V04	Valley	2	1	T35583163
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Nov 18 07:12:10 2024 Page 1
ID:y4QiaC6?UfFp4_P2xWz6BjzxAPb-ZaNTE0YO3z6SjZzC7Bw_D5KJ1fiTvOoZbxQoDNyl0jJ

5-7-3 | 11-2-6
5-7-3 | 5-7-3

Scale: 1/2"=1'



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.39	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.26	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S							Weight: 40 lb	FT = 20%

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

REACTIONS. (size) 1=11-1-10, 3=11-1-10, 4=11-1-10
Max Horz 1=-109(LC 8)
Max Uplift 1=-86(LC 12), 3=-101(LC 13), 4=-111(LC 12)
Max Grav 1=185(LC 1), 3=188(LC 20), 4=387(LC 1)

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 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-5-12 to 3-5-12, Zone1 3-5-12 to 5-7-3, Zone2 5-7-3 to 9-10-2, Zone1 9-10-2 to 10-8-10 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 3=101, 4=111.

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Date:

November 18,2024

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Job	Truss	Truss Type	Qty	Ply	HUBLER RES.
4296478	V02	Valley	2	1	T35583161
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Nov 18 07:12:09 2024 Page 1
ID:y4QiaC6?UfFp4_P2xWz6BjzxAPb-4Op51gYIlgzb6PO0ZTOlgunAyFNuAxyQMHgFhxyI0jK

9-7-3 19-2-6
9-7-3 9-7-3

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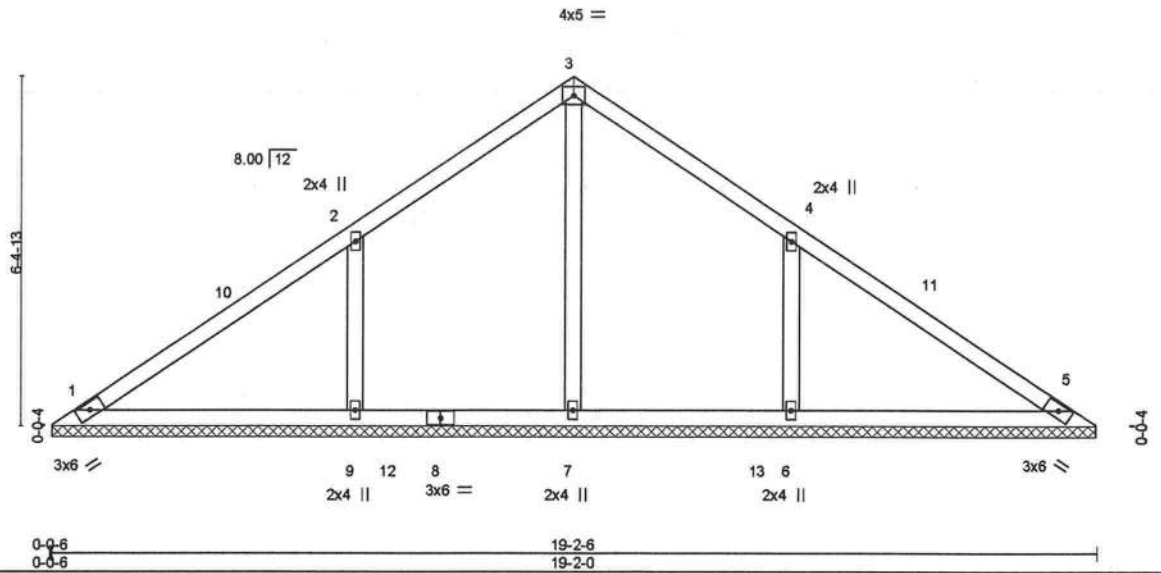

0-0-6 19-2-6
0-0-6 19-2-0

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.28	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.21	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 FBC2023/TPI2014		Matrix-S							Weight: 79 lb	FT = 20%

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

REACTIONS. All bearings 19-1-10.
(lb) - Max Horz 1=-194(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 9=-327(LC 12), 6=-326(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=318(LC 22), 9=571(LC 19), 6=570(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-9=-351/343, 4-6=-351/343

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-5-12 to 3-5-12, Zone1 3-5-12 to 9-7-3, Zone2 9-7-3 to 13-7-3, Zone1 13-7-3 to 18-8-10 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 9=327, 6=326.

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LOAD CASE(S) Standard

14) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-49, 4-7=-49, 9-15=-140, 15-16=-210, 16-17=-140, 17-18=-210, 12-18=-140
Concentrated Loads (lb)
Vert: 4=-810(B)

15) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-182, 2-4=-201, 4-6=-117, 6-7=-99, 9-15=-60, 15-16=-113, 16-17=-60, 17-18=-113, 12-18=-60
Horz: 1-2=28, 2-4=47, 4-6=37, 6-7=55
Concentrated Loads (lb)
Vert: 4=-2025(B)

16) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-99, 2-4=-117, 4-6=-201, 6-7=-182, 9-15=-60, 15-16=-113, 16-17=-60, 17-18=-113, 12-18=-60
Horz: 1-2=-55, 2-4=-37, 4-6=-47, 6-7=-28
Concentrated Loads (lb)
Vert: 4=-2025(B)

17) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-42, 2-4=-61, 4-6=-117, 6-7=-99, 9-15=-123, 15-16=-175, 16-17=-123, 17-18=-175, 12-18=-123
Horz: 1-2=-112, 2-4=-93, 4-6=37, 6-7=55
Concentrated Loads (lb)
Vert: 4=-2025(B)

18) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-99, 2-4=-117, 4-6=-61, 6-7=-42, 9-15=-123, 15-16=-175, 16-17=-123, 17-18=-175, 12-18=-123
Horz: 1-2=-55, 2-4=-37, 4-6=93, 6-7=112
Concentrated Loads (lb)
Vert: 4=-2025(B)

19) Dead + 0.6 MWFRS Wind Min. Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-29, 2-4=-45, 4-7=-29, 9-12=-21
Horz: 2-4=16
Concentrated Loads (lb)
Vert: 4=-810(B)

20) Dead + 0.6 MWFRS Wind Min. Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-4=-29, 4-6=-45, 6-7=-29, 9-12=-21
Horz: 4-6=-16
Concentrated Loads (lb)
Vert: 4=-810(B)

21) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-189, 4-7=-49, 9-12=-70
Concentrated Loads (lb)
Vert: 4=-2430(B)

22) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-49, 4-7=-189, 9-12=-70
Concentrated Loads (lb)
Vert: 4=-2430(B)

23) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-154, 4-7=-49, 9-15=-123, 15-16=-175, 16-17=-123, 17-18=-175, 12-18=-123
Concentrated Loads (lb)
Vert: 4=-2025(B)

24) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-49, 4-7=-154, 9-15=-123, 15-16=-175, 16-17=-123, 17-18=-175, 12-18=-123
Concentrated Loads (lb)
Vert: 4=-2025(B)

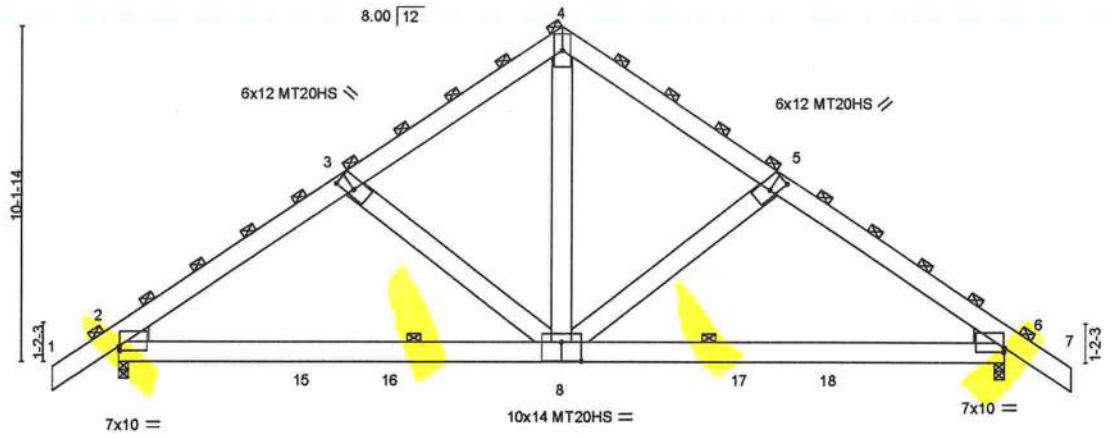
Job	Truss	Truss Type	Qty	Ply	HUBLER RES.
4296478	T05G	DBL. HOWE	1	3	T35583159
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Nov 18 07:12:08 2024 Page 1
ID:y4QiaC6?UfFp4_P2xWz6BjzxAPb-cBFjpKX7XMrkUFpq0mtW8gF1er0_RVlG7dxh8VyI0jL

-2-0-0	7-2-0	13-5-8	19-9-0	26-11-0	28-11-0
2-0-0	7-2-0	6-3-8	6-3-8	7-2-0	2-0-0

6x12 MT20HS ||

Scale = 1:67.2



13-5-8	26-11-0
13-5-8	13-5-8

Plate Offsets (X,Y)-- [2:0-0-4,0-1-10], [3:0-6-4,0-2-6], [5:0-6-4,0-2-6], [6:0-0-4,0-1-10], [8:0-7-0,0-7-0]

LOADING (psf)		SPACING-	7-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.13	Vert(LL)	-0.08	8-14	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.26	Vert(CT)	-0.14	8-14	>999	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.04	Horz(CT)	0.03	6	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 832 lb	FT = 20%

LUMBER-
TOP CHORD 2x8 SP 2400F 2.0E
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x8 SP 2400F 2.0E
WEDGE
Left: 2x6 SP No.2 , Right: 2x6 SP No.2

BRACING-
TOP CHORD 2-0-0 oc purlins (6-0-0 max.)
(Switched from sheeted: Spacing > 2-8-0).
BOT CHORD 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 6=0-3-8
Max Horz 2=-1149(LC 6)
Max Uplift 2=-1129(LC 8), 6=-1129(LC 9)
Max Grav 2=5181(LC 2), 6=5182(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-6463/1023, 3-4=-5565/846, 4-5=-5565/845, 5-6=-6463/1026
BOT CHORD 2-8=-1185/5122, 6-8=-398/5005
WEBS 4-8=-1289/2811, 5-8=-1211/1419, 3-8=-1206/1415

NOTES-
1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
6) All plates are MT20 plates unless otherwise indicated.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=1129, 6=1129.
10) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2430 lb down at 13-5-8 on top chord. The design/selection of such connection device(s) is the responsibility of others.

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

November 18,2024

LOAD CASE(S) Standard

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LOAD CASE(S) Standard

14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=52, 2-4=72, 4-6=37, 6-7=17, 9-12=-17
Horz: 1-2=-76, 2-4=-95, 4-6=60, 6-7=41
Concentrated Loads (lb)
Vert: 4=-607(B)

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=17, 2-4=37, 4-6=72, 6-7=52, 9-12=-17
Horz: 1-2=-41, 2-4=-60, 4-6=95, 6-7=76
Concentrated Loads (lb)
Vert: 4=-607(B)

16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=79, 2-4=59, 4-6=-0, 6-7=20, 9-12=-55
Horz: 1-2=-117, 2-4=-97, 4-6=38, 6-7=58
Concentrated Loads (lb)
Vert: 4=-607(B)

17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=20, 2-4=-0, 4-6=59, 6-7=79, 9-12=-55
Horz: 1-2=-58, 2-4=-38, 4-6=97, 6-7=117
Concentrated Loads (lb)
Vert: 4=-607(B)

18) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-38, 4-7=-39, 9-19=-110, 19-20=-165, 20-21=-110, 21-22=-165, 12-22=-110
Concentrated Loads (lb)
Vert: 4=-607(B)

19) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-143, 2-4=-158, 4-6=-92, 6-7=-77, 9-19=-47, 19-20=-89, 20-21=-47, 21-22=-89, 12-22=-47
Horz: 1-2=22, 2-4=37, 4-6=29, 6-7=44
Concentrated Loads (lb)
Vert: 4=-1519(B)

20) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-77, 2-4=-92, 4-6=-158, 6-7=-143, 9-19=-47, 19-20=-89, 20-21=-47, 21-22=-89, 12-22=-47
Horz: 1-2=-44, 2-4=-29, 4-6=-37, 6-7=-22
Concentrated Loads (lb)
Vert: 4=-1519(B)

21) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-33, 2-4=-48, 4-6=-92, 6-7=-77, 9-19=-96, 19-20=-137, 20-21=-96, 21-22=-137, 12-22=-96
Horz: 1-2=-88, 2-4=-73, 4-6=29, 6-7=44
Concentrated Loads (lb)
Vert: 4=-1519(B)

22) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-77, 2-4=-92, 4-6=-48, 6-7=-33, 9-19=-96, 19-20=-137, 20-21=-96, 21-22=-137, 12-22=-96
Horz: 1-2=-44, 2-4=-29, 4-6=73, 6-7=88
Concentrated Loads (lb)
Vert: 4=-1519(B)

23) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=22, 2-4=-68, 4-7=-68, 9-12=28
Horz: 1-2=-45, 2-4=45, 4-7=-45
Concentrated Loads (lb)
Vert: 4=-607(B)

24) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-4=22, 4-7=22, 9-12=28
Horz: 1-4=-45, 4-7=45
Concentrated Loads (lb)
Vert: 4=-607(B)

25) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-149, 4-7=-39, 9-12=-55
Concentrated Loads (lb)
Vert: 4=-1823(B)

26) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-38, 4-7=-149, 9-12=-55
Concentrated Loads (lb)
Vert: 4=-1823(B)

Continued on page 4

Job	Truss	Truss Type	Qty	Ply	HUBLER RES.
4296478	T04G	DBL. HOWE	1	2	T35583158

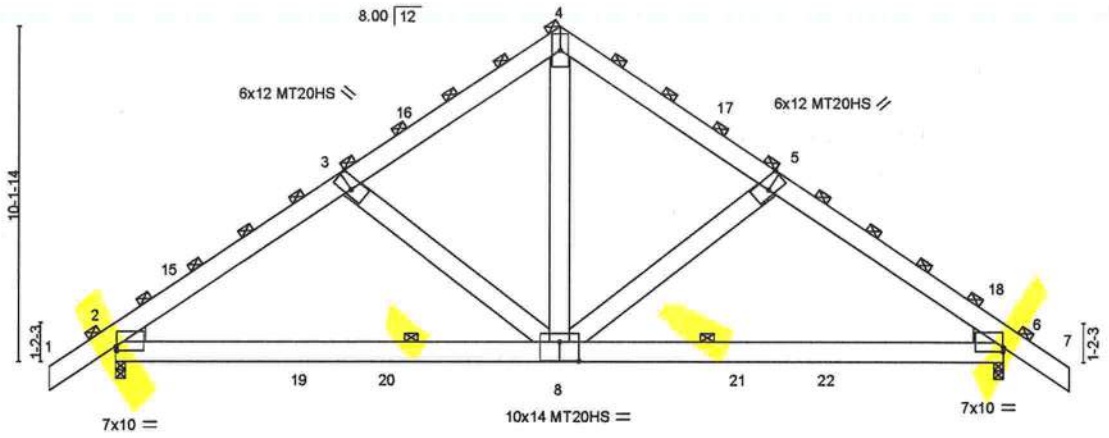
Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Nov 18 07:12:07 2024 Page 1
ID:y4QiaC6?UfFp4_P2xWz6BjzxAPb-8?hLc_WVm2jts5EdS2MHbTiseSg7i0e7uzB8c2yl0jM

-2-0-0	7-2-0	13-5-8	19-9-0	26-11-0	28-11-0
2-0-0	7-2-0	6-3-8	6-3-8	7-2-0	2-0-0

6x12 MT20HS ||

Scale = 1:67.2



13-5-8	26-11-0
13-5-8	13-5-8

Plate Offsets (X,Y)-- [2:0-0-4,0-1-10], [3:Edge,0-3-12], [5:Edge,0-3-12], [6:0-0-4,0-1-10], [8:0-7-0,0-7-0]

LOADING (psf)		SPACING-	5-6-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.15	Vert(LL)	-0.09	8-14	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.30	Vert(CT)	-0.16	8-14	>999	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.16	Horz(CT)	0.03	6	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 555 lb	FT = 20%

LUMBER-
TOP CHORD 2x8 SP 2400F 2.0E
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x8 SP 2400F 2.0E
WEDGE
Left: 2x6 SP No.2 , Right: 2x6 SP No.2

BRACING-
TOP CHORD 2-0-0 oc purlins (6-0-0 max.)
(Switched from sheeted: Spacing > 2-8-0).
BOT CHORD 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 6=0-3-8
Max Horz 2=-903(LC 10)
Max Uplift 2=-902(LC 12), 6=-902(LC 13)
Max Grav 2=4035(LC 2), 6=4035(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-5010/2016, 3-4=-4309/1851, 4-5=-4309/1851, 5-6=-5010/2016
BOT CHORD 2-8=-1215/3984, 6-8=-1283/3897
WEBS 4-8=-2040/2222, 5-8=-969/1109, 3-8=-965/1106

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 13-5-8, Zone2 13-5-8 to 17-8-7, Zone1 17-8-7 to 28-11-0 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
6) All plates are MT20 plates unless otherwise indicated.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=902, 6=902.
10) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1823 lb down at 13-5-8 on top chord. The design/selection of such connection device(s) is the responsibility of others.

Continued on page 2

This item has been digitally signed and sealed by ORegan, Philip, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

November 18,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
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LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 1-3=70, 3-5=145, 8-10=-21, 6-8=-21
Horz: 1-3=-99, 3-5=174
Concentrated Loads (lb)
Vert: 3=-810(F)

14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=92, 3-5=47, 8-10=-21, 6-8=-21
Horz: 1-3=-121, 3-5=77
Concentrated Loads (lb)
Vert: 3=-810(F)

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=47, 3-5=92, 8-10=-21, 6-8=-21
Horz: 1-3=-77, 3-5=121
Concentrated Loads (lb)
Vert: 3=-810(F)

16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=75, 3-5=-0, 8-10=-70, 6-8=-70
Horz: 1-3=-124, 3-5=49
Concentrated Loads (lb)
Vert: 3=-810(F)

17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-0, 3-5=75, 8-10=-70, 6-8=-70
Horz: 1-3=-49, 3-5=124
Concentrated Loads (lb)
Vert: 3=-810(F)

18) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-3=-49, 3-5=-49, 8-10=-70, 6-8=-70
Concentrated Loads (lb)
Vert: 3=-810(F)

19) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-201, 3-5=-117, 8-10=-70, 6-8=-70
Horz: 1-3=47, 3-5=37
Concentrated Loads (lb)
Vert: 3=-2025(F)

20) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-117, 3-5=-201, 8-10=-70, 6-8=-70
Horz: 1-3=-37, 3-5=-47
Concentrated Loads (lb)
Vert: 3=-2025(F)

21) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-61, 3-5=-117, 8-10=-70, 6-8=-70
Horz: 1-3=-93, 3-5=37
Concentrated Loads (lb)
Vert: 3=-2025(F)

22) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-117, 3-5=-61, 8-10=-70, 6-8=-70
Horz: 1-3=-37, 3-5=93
Concentrated Loads (lb)
Vert: 3=-2025(F)

23) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-87, 3-5=-87, 8-10=-21, 6-8=-21
Horz: 1-3=57, 3-5=-57
Concentrated Loads (lb)
Vert: 3=-810(F)

24) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=28, 3-5=28, 8-10=-21, 6-8=-21
Horz: 1-3=-57, 3-5=57
Concentrated Loads (lb)
Vert: 3=-810(F)

25) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-189, 3-5=-49, 8-10=-70, 6-8=-70
Concentrated Loads (lb)
Vert: 3=-2430(F)

Continued on page 4

Job	Truss	Truss Type	Qty	Ply	HUBLER RES.
4296478	T03G	SCISSORS	1	3	T35583157
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Nov 18 07:12:06 2024 Page 1
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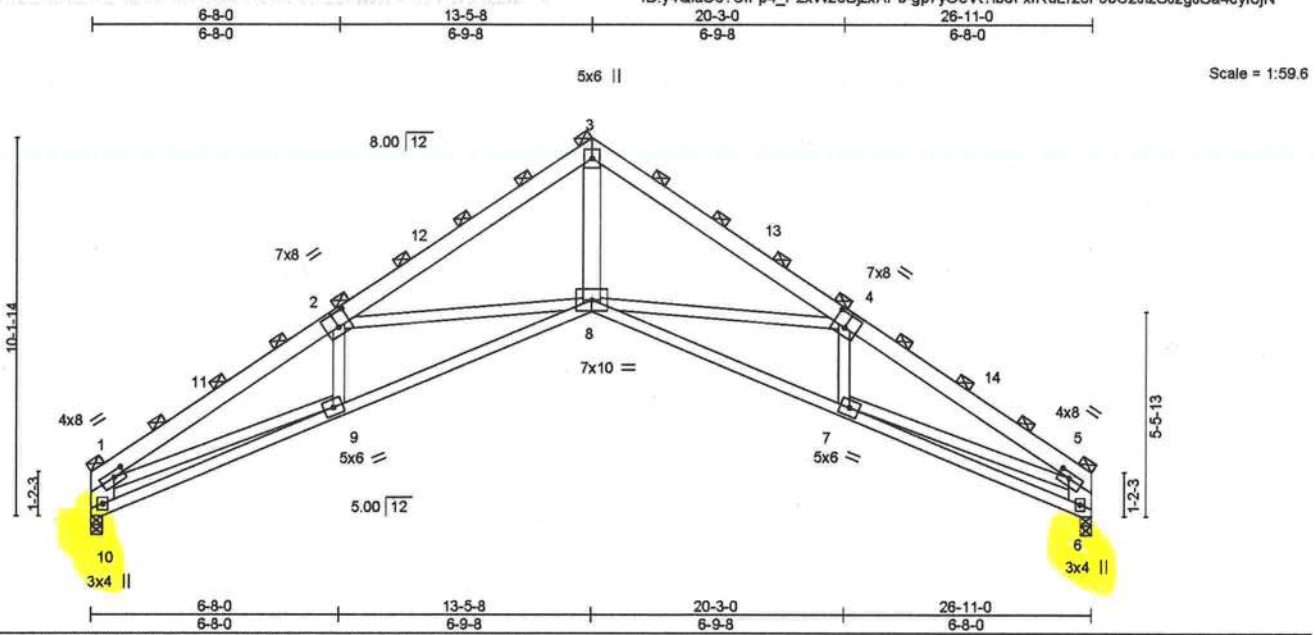

Plate Offsets (X,Y)-- [1:0-3-8,0-1-12], [2:0-4-0,0-4-8], [4:0-4-0,0-4-8], [5:0-3-8,0-1-12]

LOADING (psf)		SPACING-	7-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.56	Vert(LL)	-0.24	8-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.44	Vert(CT)	-0.44	8-9	>715	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.67	Horz(CT)	0.41	6	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 539 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31
WEBS 2x4 SP No.3 *Except*
3-8: 2x6 SP No.2, 1-10,5-6: 2x8 SP 2400F 2.0E, 1-9,5-7: 2x4 SP No.2

BRACING-
TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end verticals (Switched from sheeted: Spacing > 2-8-0).
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=0-3-8, 6=0-3-8
Max Horz 10=-978(LC 8)
Max Uplift 10=-843(LC 12), 6=-843(LC 13)
Max Grav 10=4622(LC 1), 6=4622(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-12095/2306, 2-3=-11426/787, 3-4=-11426/955, 4-5=-12095/1687, 1-10=-4837/1315, 5-6=-4837/1068
BOT CHORD 9-10=-1125/2049, 8-9=-2401/10754, 7-8=-1166/10580, 6-7=-385/1299
WEBS 3-8=-1025/8493, 4-8=-1491/2274, 4-7=-810/280, 2-8=-1389/2081, 2-9=-810/340, 1-9=-1242/8937, 5-7=-834/8937

NOTES-
1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x8 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Webs connected as follows: 2x6 - 2 rows staggered at 0-8-0 oc, 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-3-10 to 3-3-10, Zone1 3-3-10 to 13-5-8, Zone2 13-5-8 to 17-8-7, Zone1 17-8-7 to 26-7-6 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Bearing at joint(s) 10, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=843, 6=843.
10) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
11) 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

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Philip J. O'Regan PE No.58126
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Date:

November 18,2024

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LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 1-8=22, 8-15=22, 16-29=-17
Horz: 1-29=45, 1-8=-45, 8-15=45, 15-16=45
Concentrated Loads (lb)
Vert: 8=-607(F)

25) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-8=-149, 8-15=-38, 16-29=-55
Concentrated Loads (lb)
Vert: 8=-1823(F)

26) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-8=-38, 8-15=-149, 16-29=-55
Concentrated Loads (lb)
Vert: 8=-1823(F)

27) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-8=-121, 8-15=-38, 16-29=-55
Concentrated Loads (lb)
Vert: 8=-1519(F)

28) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-8=-38, 8-15=-121, 16-29=-55
Concentrated Loads (lb)
Vert: 8=-1519(F)

Job	Truss	Truss Type	Qty	Ply	HUBLER RES.
4296478	T02G	COMMON SUPPORTED GAB	1	1	T35583155
					Job Reference (optional)

NOTES-

7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
8) Gable studs spaced at 2-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16 except (jt=lb) 29=206, 23=215, 25=354, 26=336, 27=275, 28=640, 21=204, 20=358, 19=335, 18=281, 17=608.
12) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1823 lb down at 13-5-8 on top chord. The design/selection of such connection device(s) is the responsibility of others.
15) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-8=-149, 8-15=-149, 16-29=-55
   Concentrated Loads (lb)
   Vert: 8=-1823(F)
2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-8=-121, 8-15=-121, 16-29=-55
   Concentrated Loads (lb)
   Vert: 8=-1519(F)
3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-8=-38, 8-15=-38, 16-29=-110
   Concentrated Loads (lb)
   Vert: 8=-607(F)
4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-8=106, 8-15=106, 16-29=-17
   Horz: 1-29=90, 1-8=-129, 8-15=129, 15-16=173
   Concentrated Loads (lb)
   Vert: 8=-607(F)
5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-8=106, 8-15=106, 16-29=-17
   Horz: 1-29=-173, 1-8=-129, 8-15=129, 15-16=-90
   Concentrated Loads (lb)
   Vert: 8=-607(F)
6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-8=-113, 8-15=-113, 16-29=-55
   Horz: 1-29=129, 1-8=74, 8-15=-74, 15-16=134
   Concentrated Loads (lb)
   Vert: 8=-607(F)
7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-8=-113, 8-15=-113, 16-29=-55
   Horz: 1-29=-134, 1-8=74, 8-15=-74, 15-16=-129
   Concentrated Loads (lb)
   Vert: 8=-607(F)
8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-8=-33, 8-15=55, 16-29=-17
   Horz: 1-29=56, 1-8=10, 8-15=78, 15-16=72
   Concentrated Loads (lb)
   Vert: 8=-607(F)
9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-8=55, 8-15=-33, 16-29=-17
   Horz: 1-29=-72, 1-8=-78, 8-15=-10, 15-16=-56
   Concentrated Loads (lb)
   Vert: 8=-607(F)
10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-8=-88, 8-15=-0, 16-29=-55
    Horz: 1-29=95, 1-8=49, 8-15=38, 15-16=33
    Concentrated Loads (lb)
    Vert: 8=-607(F)
11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-8=-0, 8-15=-88, 16-29=-55
    Horz: 1-29=-33, 1-8=-38, 8-15=-49, 15-16=-95

Continued on page 3

MiTek®
16023 Swingley Ridge Rd.
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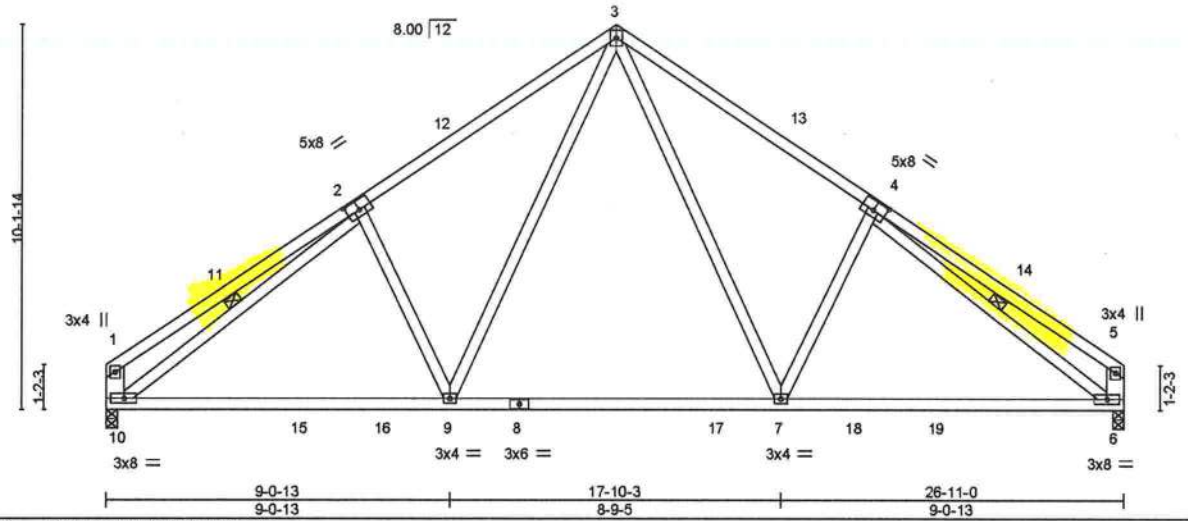
Job	Truss	Truss Type	Qty	Ply	HUBLER RES.
4296478	T02	Common	6	1	T35583154
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Nov 18 07:12:04 2024 Page 1
ID:y4QiaC6?UfFp4_P2xWz6BjzxAPb-kQ?CzyUdT7Ll?eW2nwpazq4GCEV?VYNhC?zU?jyI0jP

6-8-0	13-5-8	20-3-0	26-11-0
6-8-0	6-9-8	6-9-8	6-8-0

4x5 ||

Scale = 1:58.5



9-0-13	17-10-3	26-11-0
9-0-13	8-9-5	9-0-13

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.54	Vert(LL)	-0.17	7-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.90	Vert(CT)	-0.30	9-10	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.70	Horz(CT)	0.04	6	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 164 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
1-10,5-6: 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-4-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-7-12 oc bracing.
WEBS 1 Row at midpt 2-10, 4-6

REACTIONS. (size) 10=0-3-8, 6=0-3-8
Max Horz 10=-281(LC 10)
Max Uplift 10=-358(LC 12), 6=-358(LC 13)
Max Grav 10=1172(LC 19), 6=1172(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-397/216, 2-3=-1351/565, 3-4=-1352/565, 4-5=-397/216, 1-10=-341/221, 5-6=-341/221
BOT CHORD 9-10=-460/1288, 7-9=-171/877, 6-7=-298/1090
WEBS 3-7=-312/708, 4-7=-286/377, 3-9=-312/707, 2-9=-286/377, 2-10=-1144/317, 4-6=-1144/317

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-2-12 to 3-2-12, Zone1 3-2-12 to 13-5-8, Zone2 13-5-8 to 17-8-7, Zone1 17-8-7 to 26-8-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=358, 6=358.

This item has been digitally signed and sealed by ORegan, Philip, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

November 18,2024

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16023 Swingley Ridge Rd.
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314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	HUBLER RES.
4296478	T01G	GABLE	2	1	T35583153
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Nov 18 07:12:04 2024 Page 1
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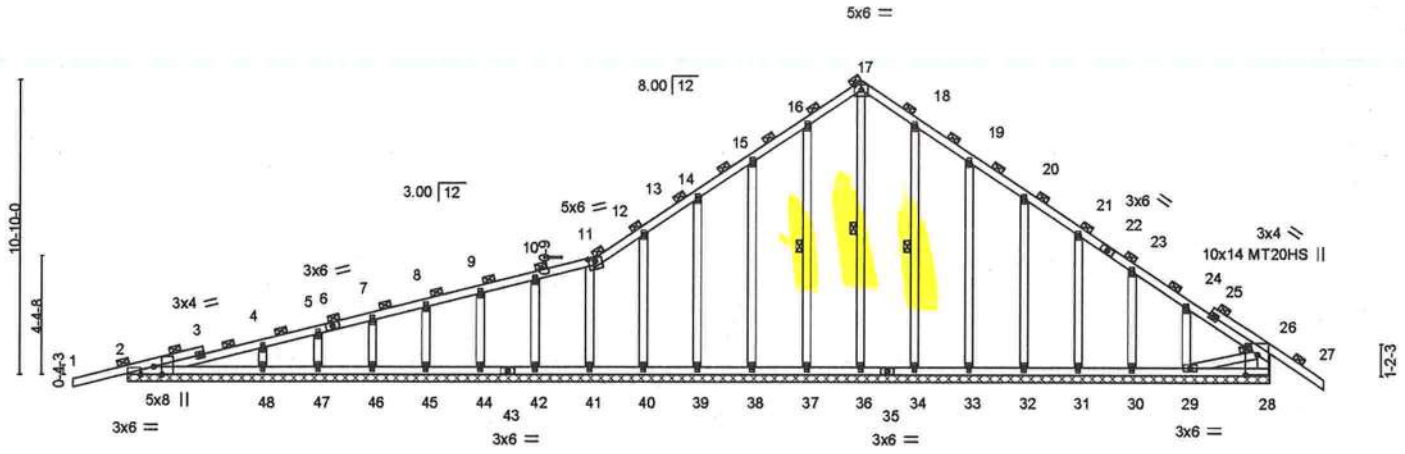
-2-0-0 | 17-2-6 | 27-0-0 | 42-0-0 | 44-0-0
2-0-0 | 17-2-6 | 9-9-10 | 15-0-0 | 2-0-0

Scale = 1:81.5



42-0-0
42-0-0

Plate Offsets (X,Y)-- [2:0-5-12,Edge], [2:0-3-8,Edge], [12:0-3-0,0-1-8], [26:0-8-15,0-5-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.55	Vert(LL)	-0.03	27	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.17	Vert(CT)	-0.04	27	n/r	120	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.27	Horz(CT)	0.02	28	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S							Weight: 282 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x6 SP No.2 *Except*
26-29: 2x4 SP No.3
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 17-36, 16-37, 18-34

REACTIONS. All bearings 42-0-0.
(lb) - Max Horz 2=390(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 28, 36, 41, 42, 44, 45, 46, 47 except 2=-220(LC 8), 37=-107(LC 12), 38=-120(LC 12), 39=-115(LC 12), 40=-111(LC 12), 48=-132(LC 8), 34=-103(LC 13), 33=-122(LC 13), 32=-114(LC 13), 31=-115(LC 13), 30=-117(LC 13), 29=-159(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 37, 38, 39, 40, 41, 42, 44, 45, 46, 47, 34, 33, 32, 31, 30, 29 except 28=263(LC 26), 2=290(LC 1), 36=276(LC 13), 48=321(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-284/101, 14-15=-145/333, 15-16=-124/467, 16-17=-141/579, 17-18=-141/579, 18-19=-113/467, 19-20=-81/333
BOT CHORD 2-48=-149/373, 47-48=-149/373, 46-47=-149/373, 45-46=-149/373, 44-45=-149/373, 42-44=-149/373, 41-42=-149/373, 40-41=-149/373, 39-40=-149/373, 38-39=-149/373, 37-38=-149/373, 36-37=-149/373, 34-36=-149/373, 33-34=-149/373, 32-33=-149/373, 31-32=-149/373, 30-31=-149/373, 29-30=-149/373
WEBS 17-36=-475/79, 4-48=-222/275

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone; end vertical right exposed; porch left 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) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) All plates are MT20 plates unless otherwise indicated.
6) All plates are 2x4 MT20 unless otherwise indicated.
7) Gable requires continuous bottom chord bearing.
8) Gable studs spaced at 2-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

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Continued on page 2

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