Job	Truss	Truss Type	Qty	Ply	
BUTLER	A	GAMBREL ATTIC	21	1	Job Reference (optional)

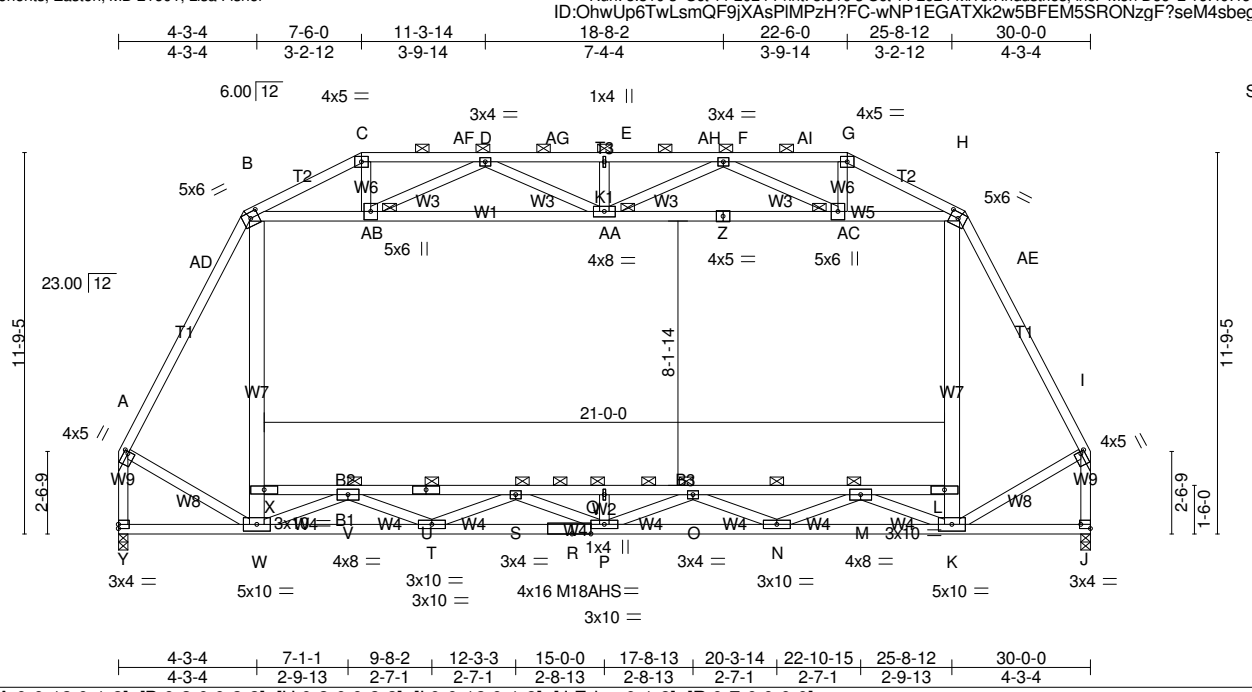

Plate Offsets (X,Y)-- [A:0-0-12,0-1-8], [B:0-3-0,0-2-2], [H:0-3-0,0-2-2], [I:0-0-12,0-1-8], [J:Edge,0-1-8], [R:0-7-0,0-0-0]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.71	Vert(LL)	-0.42	Q	>840	360	MT20	244/190
Snow (Pf)	30.0	Lumber DOL	1.15	BC	0.90	Vert(CT)	-0.75	Q	>477	240	M18AHS	186/179
TCDL	7.0	Rep Stress Incr	YES	WB	0.93	Horz(CT)	0.12	J	n/a	n/a		
BCLL	0.0 *	Code	IRC2021/TPI2014	Matrix-MS		Wind(LL)	-0.19	T-W	>999	240	Weight: 296 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP DSS
WEBS 2x4 SP No.3 *Except*
W5,W1: 2x4 SP No.2, W7: 2x6 SP DSS
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (2-4-14 max.): C-G.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except:
2-7-0 oc bracing: Q-S, O-Q
2-11-0 oc bracing: S-V, M-O
10-0-0 oc bracing: V-X, L-M
JOINTS 1 Brace at Jt(s): AA, Q, V, S, O, M, AB, AC

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

REACTIONS. (lb/size) Y=1936/0-3-8 (min. 0-2-8), J=1936/0-3-8 (min. 0-2-8)
Max Horz Y=-272(LC 12)
Max Grav Y=2470(LC 52), J=2470(LC 54)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-AD=-2157/0, B-AD=-2084/0, H-AE=-2083/0, I-AE=-2157/0, B-C=-2511/243, G-H=-2511/246, A-Y=-2492/0, I-J=-2493/0, C-AF=-2285/235, D-AF=-2285/235, D-AG=-4419/392, E-AG=-4419/392, E-AH=-4419/392, F-AH=-4419/392, F-AI=-2285/238, G-AI=-2285/238
BOT CHORD W-Y=-285/286, T-W=0/3380, R-T=0/6315, P-R=0/6315, N-P=0/6315, K-N=0/3238, V-X=-140/893, U-V=-3948/0, S-U=-3948/0, Q-S=-5771/0, O-Q=-5771/0, M-O=-3948/0, L-M=-156/906
WEBS B-AB=-408/1365, AA-AB=-421/3048, Z-AA=-420/3048, Z-AC=-420/3048, H-AC=-408/1365, W-X=0/1056, B-X=0/1167, K-L=0/1056, H-L=0/1167, E-AA=-444/59, A-W=0/1181, I-K=0/1182, V-W=-3266/0, T-V=0/1749, S-T=-1647/0, P-S=0/444, O-P=0/447, N-O=-1647/0, M-N=0/1749, K-M=-3266/0, C-AB=-44/849, G-AC=-43/849, D-AB=-1804/179, D-AA=-59/608, F-AA=-59/608, F-AC=-1804/179

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; B=50ft; L=30ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Exterior(2R) 3-1-12 to 10-6-0, Interior(1) 10-6-0 to 19-6-0, Exterior(2R) 19-6-0 to 26-10-4, Exterior(2E) 26-10-4 to 29-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
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 1-0-0 wide will fit between the bottom chord and any other members.
9) Ceiling dead load (5.0 psf) on member(s). B-AB, AA-AB, AA-AC, H-AC

Continued on page 2

NOTES-

10) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. V-X, S-V, Q-S, O-Q, M-O, L-M
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
12) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
BUTLER	AB	GAMBREL ATTIC	31	1	Job Reference (optional)

Chesapeake Building Components, Easton, MD 21601, Lisa Fisher

Run: 8.810 s Oct 11 2024 Print: 8.810 s Oct 11 2024 MiTek Industries, Inc. Mon Dec 2 16:49:48 2024 Page 1
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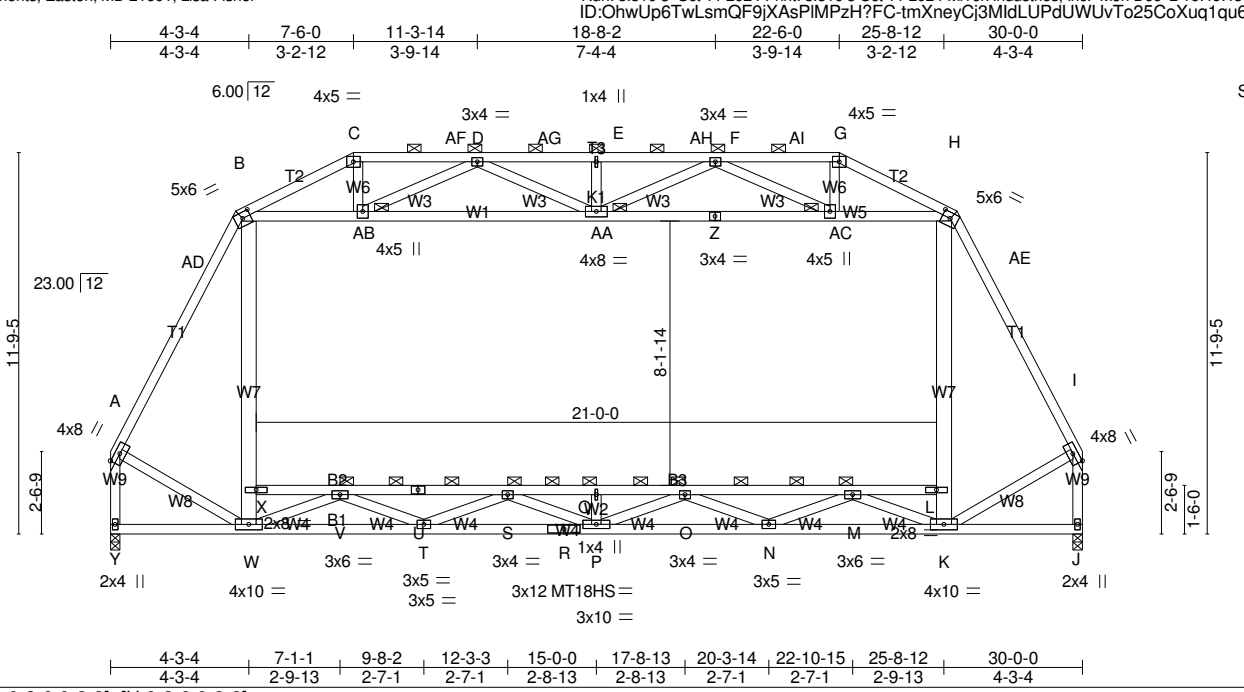

Plate Offsets (X,Y)-- [B:0-3-0,0-2-2], [H:0-3-0,0-2-2]

LOADING (psf)		**SPACING-**	1-4-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.42	Vert(LL)	-0.35	Q	>999	360	MT20	244/190
Snow (Pf)	30.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	-0.61	Q	>583	240	MT18HS	244/190
TCDL	7.0	Rep Stress Incr	YES	WB	0.77	Horz(CT)	0.10	J	n/a	n/a		
BCLL	0.0 *	Code	IRC2021/TPI2014	Matrix-MS		Wind(LL)	-0.16	T-W	>999	240	Weight: 296 lb	FT = 20%
BCDL	10.0											

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.1 *Except*
B2,B3: 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
W5,W1: 2x4 SP No.2, W7: 2x6 SP No.2
OTHERS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-4-10 oc purlins, except end verticals, and 2-0-0 oc purlins (3-2-13 max.): C-G.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing. Except:
2-8-0 oc bracing: S-V, Q-S, O-Q, M-O
10-0-0 oc bracing: V-X, L-M
JOINTS 1 Brace at Jt(s): AA, Q, V, S, O, M, AB, AC

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

REACTIONS. (lb/size) Y=1290/0-3-8 (min. 0-1-15), J=1290/0-3-8 (min. 0-1-15)
Max Horz Y=181(LC 13)
Max Grav Y=1647(LC 52), J=1647(LC 54)

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

TOP CHORD A-AD=-1439/0, B-AD=-1390/0, H-AE=-1389/0, I-AE=-1439/0, B-C=-1674/162, G-H=-1674/164, A-Y=-1665/0, I-J=-1666/0, C-AF=-1523/156, D-AF=-1523/156, D-AG=-2946/261, E-AG=-2946/261, E-AH=-2946/261, F-AH=-2946/261, F-AI=-1523/159, G-AI=-1523/159
BOT CHORD T-W=0/2271, R-T=0/4230, P-R=0/4230, N-P=0/4230, K-N=0/2179, V-X=-93/561, U-V=-2652/0, S-U=-2652/0, Q-S=-3863/0, O-Q=-3863/0, M-O=-2652/0, L-M=-102/568
WEBS B-AB=-270/912, AA-AB=-280/2034, Z-AA=-279/2034, Z-AC=-279/2034, H-AC=-270/912, W-X=0/707, B-X=0/779, K-L=0/707, H-L=0/779, E-AA=-296/39, A-W=0/792, I-K=0/793, V-W=-2175/0, T-V=0/1163, S-T=-1100/0, P-S=0/289, O-P=0/291, N-O=-1100/0, M-N=0/1163, K-M=-2175/0, C-AB=-29/566, G-AC=-29/566, D-AB=-1203/120, D-AA=-39/405, F-AA=-39/405, F-AC=-1203/120

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; B=50ft; L=30ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Exterior(2R) 3-1-12 to 10-6-0, Interior(1) 10-6-0 to 19-6-0, Exterior(2R) 19-6-0 to 26-10-4, Exterior(2E) 26-10-4 to 29-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
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 1-0-0 wide will fit between the bottom chord and any other members.
9) Ceiling dead load (5.0 psf) on member(s). B-AB, AA-AB, AA-AC, H-AC
10) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. V-X, S-V, Q-S, O-Q, M-O, L-M
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

NOTES-

12) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
BUTLER	AT	GABLE	21	1	Job Reference (optional)

Chesapeake Building Components, Easton, MD 21601, Lisa Fisher

Run: 8.810 s Oct 11 2024 Print: 8.810 s Oct 11 2024 MiTek Industries, Inc. Mon Dec 2 16:49:49 2024 Page 1
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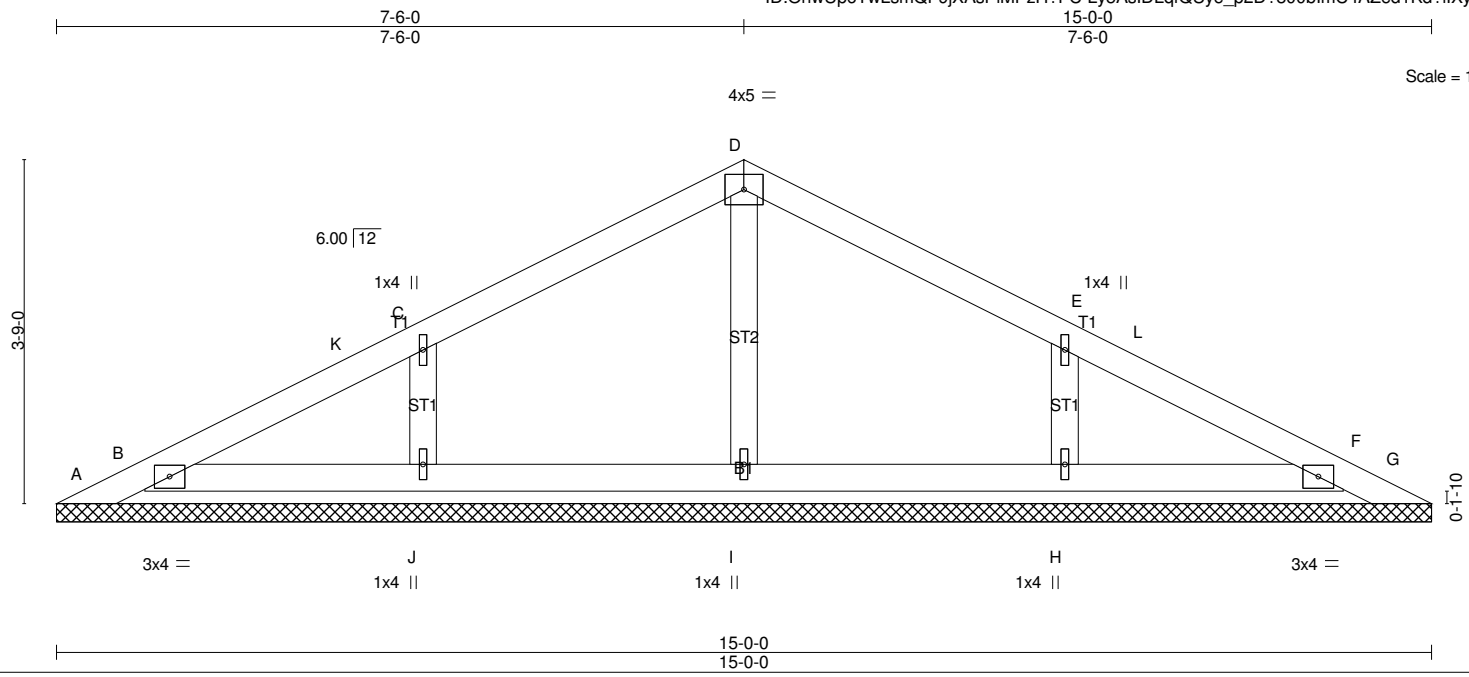

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	30.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	n/a	-	n/a	999		
TCDL	7.0	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	F	n/a	n/a		
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-S							Weight: 53 lb	FT = 20%
BCDL	10.0											

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.

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

REACTIONS. All bearings 15-0-0.
(lb) - Max Horz A=49(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) A, G, B, F, H, J
Max Grav All reactions 250 lb or less at joint(s) A, G except B=323(LC 19), F=323(LC 20), I=292(LC 19), H=528(LC 20), J=528(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS E-H=-455/173, C-J=-455/173

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; B=50ft; L=30ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3E) 0-3-15 to 3-3-15, Exterior(2N) 3-3-15 to 4-6-0, Corner(3R) 4-6-0 to 10-6-0, Exterior(2N) 10-6-0 to 11-8-1, Corner(3E) 11-8-1 to 14-8-1 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) TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.00
5) Unbalanced snow loads have been considered for this design.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 4-0-0 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 1-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A, G, B, F, H, J.
11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
BUTLER	ATB	GABLE	31	1	Job Reference (optional)

Chesapeake Building Components, Easton, MD 21601, Lisa Fisher

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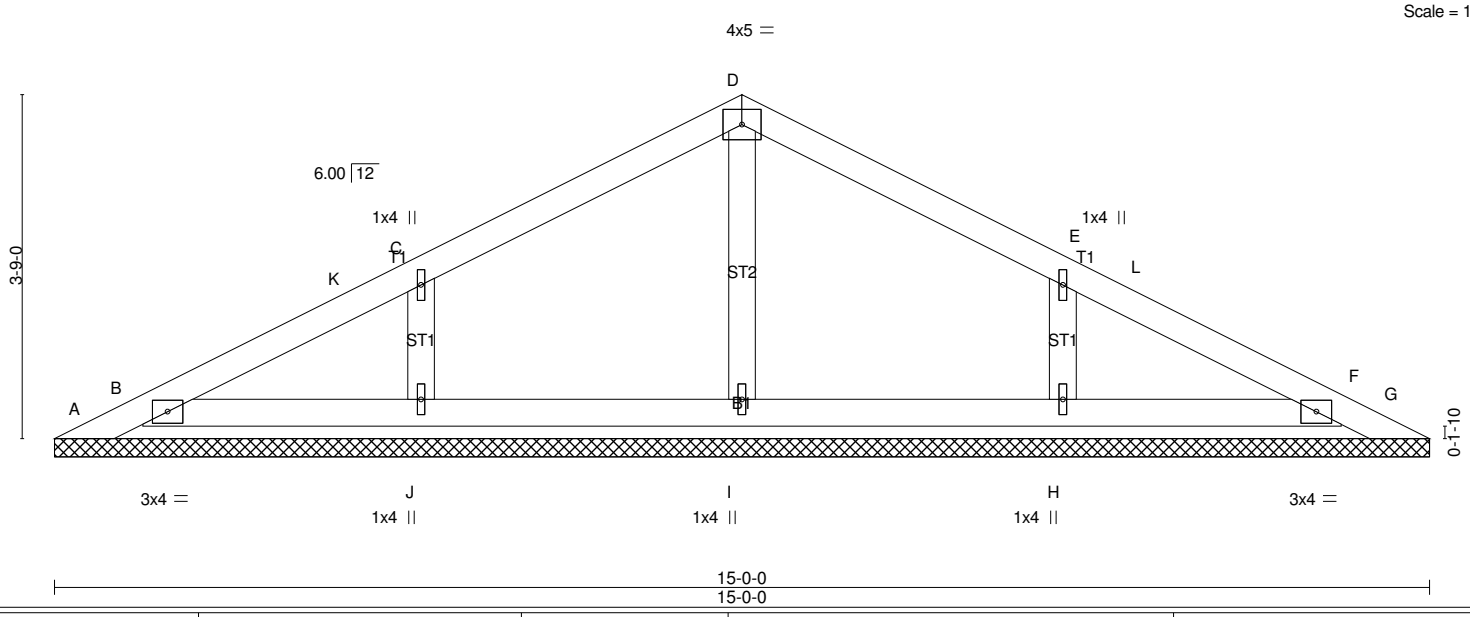

15-0-0 / 15-0-0

LOADING (psf)		**SPACING-**	1-4-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	30.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999		
TCDL	7.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	F	n/a	n/a		
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-S							Weight: 53 lb	FT = 20%
BCDL	10.0											

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.

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

REACTIONS. All bearings 15-0-0.
(lb) - Max Horz A=-33(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) A, G, B, F, H, J
Max Grav All reactions 250 lb or less at joint(s) A, G, B, F, I except H=352(LC 20), J=352(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS E-H=-303/115, C-J=-303/115

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; B=50ft; L=30ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3E) 0-3-15 to 3-3-15, Exterior(2N) 3-3-15 to 4-6-0, Corner(3R) 4-6-0 to 10-6-0, Exterior(2N) 10-6-0 to 11-8-1, Corner(3E) 11-8-1 to 14-8-1 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) TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.00
5) Unbalanced snow loads have been considered for this design.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 4-0-0 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 1-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A, G, B, F, H, J.
11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
BUTLER	C	SCISSORS	17	1	Job Reference (optional)

Chesapeake Building Components, Easton, MD 21601, Lisa Fisher

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5-6-5	5-2-13	5-2-13	5-2-13	5-2-13	5-6-5

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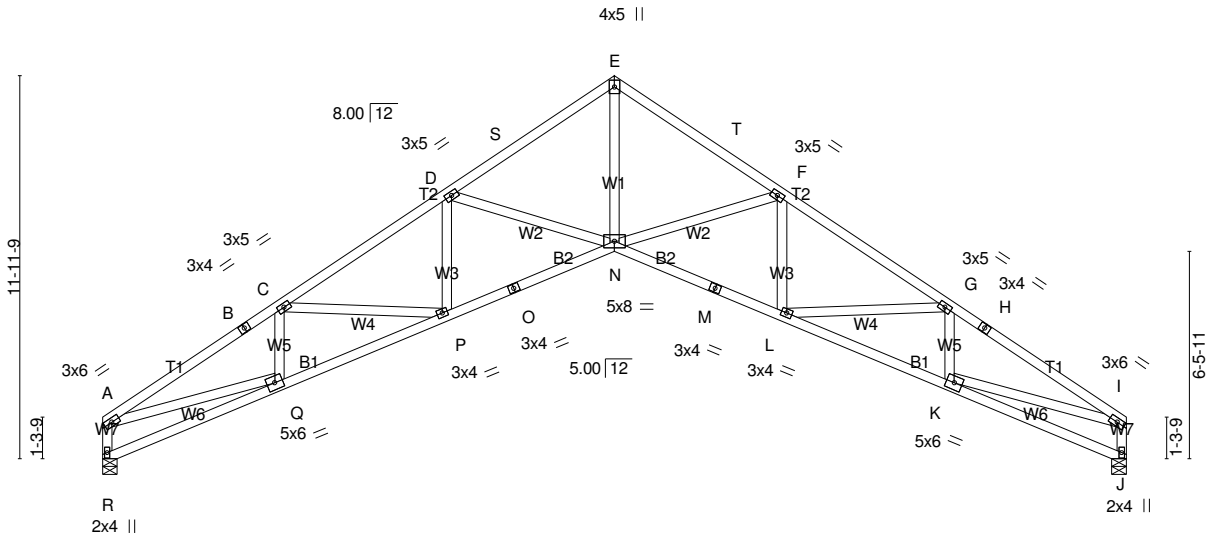

5-6-5	10-9-3	16-0-0	21-2-13	26-5-11	32-0-0
5-6-5	5-2-13	5-2-13	5-2-13	5-2-13	5-6-5

LOADING (psf)		**SPACING-**	1-4-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.41	Vert(LL)	-0.24	N	>999	360	MT20	244/190
Snow (Pf)	30.0	Lumber DOL	1.15	BC	0.53	Vert(CT)	-0.38	N-P	>999	240		
TCDL	7.0	Rep Stress Incr	YES	WB	0.75	Horz(CT)	0.39	J	n/a	n/a		
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-MS		Wind(LL)	0.09	N	>999	240	Weight: 184 lb	FT = 20%
BCDL	10.0											

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-5-13 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) R=994/0-5-8 (min. 0-1-8), J=994/0-5-8 (min. 0-1-8)
Max Horz R=138(LC 11)
Max UpliftR=-43(LC 12), J=-43(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-2239/75, B-C=-2106/84, C-D=-2306/71, D-S=-1930/29, E-S=-1853/38, E-T=-1853/38, F-T=-1930/29, F-G=-2306/73, G-H=-2106/84, H-I=-2239/75, A-R=-990/64, I-J=-990/64
BOT CHORD P-Q=-29/1957, O-P=0/2011, N-O=0/2027, M-N=0/2027, L-M=0/2011, K-L=-29/1957
WEBS E-N=0/1816, F-N=-394/95, G-K=-308/49, D-N=-394/95, C-Q=-308/51, A-Q=-27/1742, I-K=-19/1742

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; B=50ft; L=32ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-4-2, Interior(1) 3-4-2 to 12-9-10, Exterior(2R) 12-9-10 to 19-2-6, Interior(1) 19-2-6 to 28-7-14, Exterior(2E) 28-7-14 to 31-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.00
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 1-0-0 wide will fit between the bottom chord and any other members.
6) Bearing at joint(s) R, J considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) R, J.

LOAD CASE(S) Standard