

Job	Truss	Truss Type	Qty	Ply	H&H-NC/ENGAGE
MASTER	A01	GABLE	1	1	Job Reference (optional)

Builders FirstSource, N.Charleston, SC

Run: 7.640 s Apr 22 2016 Print: 7.640 s Apr 22 2016 MiTek Industries, Inc. Fri Jan 12 08:28:44 2018 Page 1
 ID:SzABPCMxEuPMsuHKO6q6LKzwPcS-nISW9fDiboe2FFbucF7MjkjEZ13zR3QUw6cq4IzwA5n

-0-10-8	18-5-8	36-11-0	37-9-8
0-10-8	18-5-8	18-5-8	0-10-8

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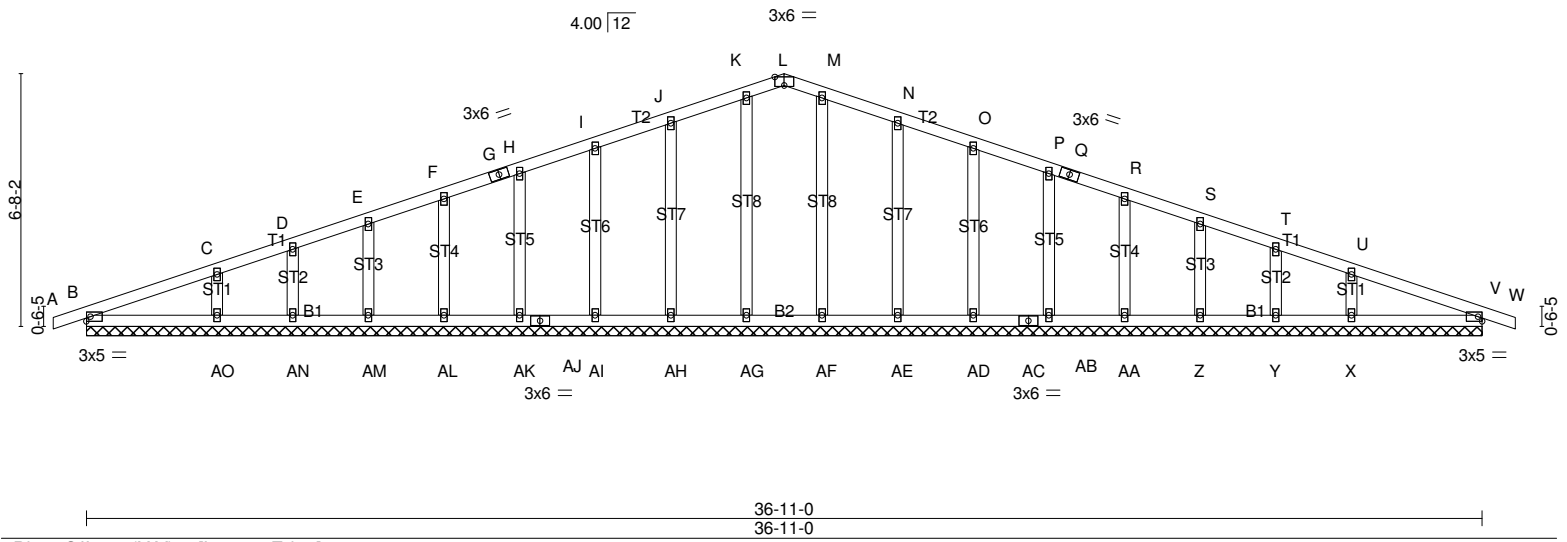


Plate Offsets (X,Y)-- [L:0-3-0,Edge]		36-11-0		36-11-0	
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.17	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.09	Vert(LL) 0.00 W n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.09	Vert(TL) 0.01 W n/r 120		
BCDL 10.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.01 V n/a n/a		
	Code IRC2009/TPI2007			Weight: 198 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.

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

REACTIONS. All bearings 36-11-0.
 (lb) - Max Horz B=181(LC 6)
 Max Uplift All uplift 100 lb or less at joint(s) AG except V=-138(LC 9), AH=-170(LC 8), AI=-140(LC 6), AK=-146(LC 8), AL=-143(LC 6), AM=-154(LC 8), AN=-110(LC 6), AO=-252(LC 6), AE=-177(LC 9), AD=-139(LC 7), AB=-147(LC 9), AA=-143(LC 7), Z=-154(LC 9), Y=-110(LC 7), X=-247(LC 7), B=-111(LC 8)
 Max Grav All reactions 250 lb or less at joint(s) V, AG, AH, AI, AK, AL, AM, AN, AF, AE, AD, AB, AA, Z, Y, B except AO=268(LC 13), X=268(LC 14)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD I-J=-30/298, J-K=-30/376, K-L=-29/388, L-M=-29/388, M-N=-30/376, N-O=-30/298
 WEBS C-AO=-192/312, U-X=-192/313

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 130mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; 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.
 - This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) AG except (jt=lb) V=138, AH=170, AI=140, AK=146, AL=143, AM=154, AN=110, AO=252, AE=177, AD=139, AB=147, AA=143, Z=154, Y=110, X=247, B=111.
 - This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	H&H-NC/ENGAGE
MASTER	A02	Common	7	1	Job Reference (optional)

Builders FirstSource, N.Charleston, SC

Run: 7.640 s Apr 22 2016 Print: 7.640 s Apr 22 2016 MiTek Industries, Inc. Fri Jan 12 08:28:44 2018 Page 1
 ID:SzABPCMxEuPMsuHkO6q6LKzWpC-S-nISW9fDiboe2FFbucF7Mjkj6S1rtRyOUw6cq4IzwA5n

-0-10-8	9-7-4	18-5-8	27-3-12	36-11-0	37-9-8
0-10-8	9-7-4	8-10-3	8-10-4	9-7-4	0-10-8

Scale = 1:60.7

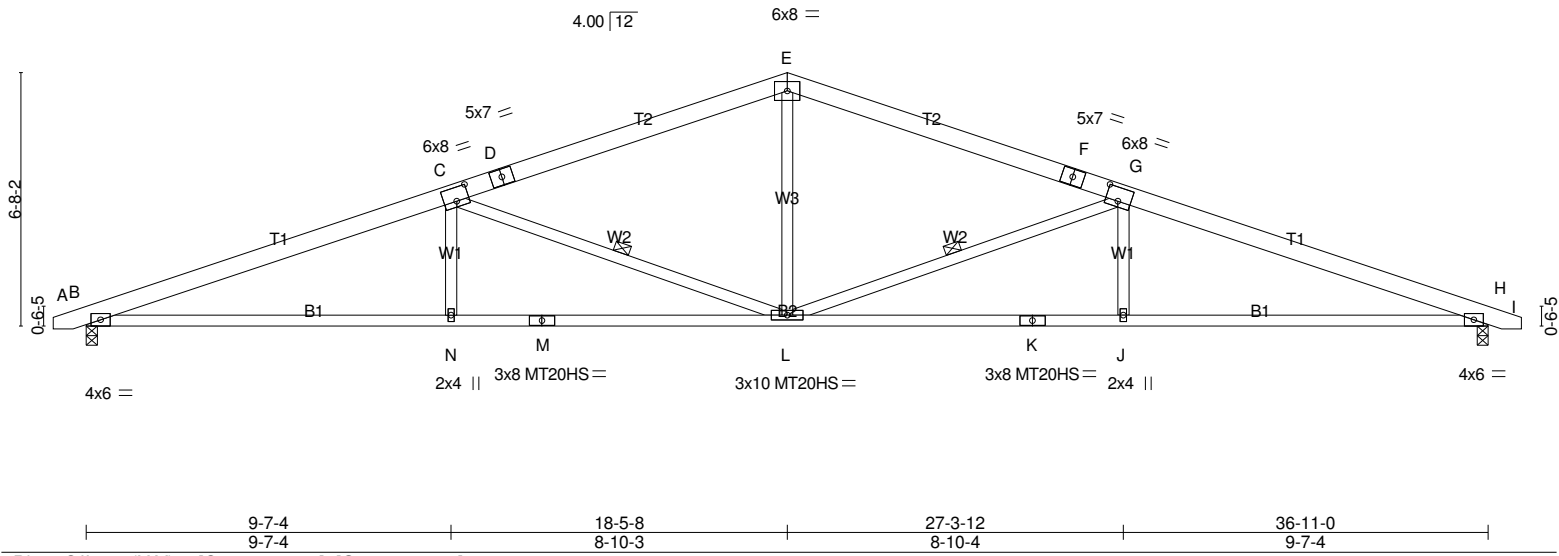


Plate Offsets (X,Y)-- [C:0-4-0,0-4-4], [G:0-4-0,0-4-4]					
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	PLATES
TCLL 20.0	Plate Grip DOL 1.15		TC 0.69	in (loc) l/defl L/d	MT20 244/190
TCDL 10.0	Lumber DOL 1.15		BC 0.99	Vert(LL) -0.23 L-N >999 360	MT20HS 187/143
BCLL 0.0 *	Rep Stress Incr YES		WB 0.54	Vert(TL) -0.68 J-L >655 240	
BCDL 10.0	Code IRC2009/TPI2007		(Matrix-S)	Horz(TL) 0.22 H n/a n/a	
				Wind(LL) 0.37 L-N >999 240	Weight: 195 lb FT = 20%

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied.
 BOT CHORD Rigid ceiling directly applied.
 WEBS 1 Row at midpt G-L, C-L

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

REACTIONS. (lb/size) B=1513/0-3-8 (min. 0-1-13), H=1513/0-3-8 (min. 0-1-13)
 Max Horz B=-151(LC 9)
 Max Uplift B=-645(LC 6), H=-645(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-3509/3147, C-D=-2434/2269, D-E=-2350/2299, E-F=-2350/2299, F-G=-2434/2269,
 G-H=-3509/3147
 BOT CHORD B-N=-2794/3255, M-N=-2794/3255, L-M=-2794/3255, K-L=-2797/3255, J-K=-2797/3255,
 H-J=-2797/3255
 WEBS E-L=-730/958, G-L=-1148/1178, G-J=0/355, C-L=-1148/1178, C-N=0/355

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 130mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; 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) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 4) All plates are MT20 plates unless otherwise indicated.
 - 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) except (jt=lb) B=645, H=645.
 - 8) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 10) 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	H&H-NC/ENGAGE
MASTER	A03	Common	1	1	Job Reference (optional)

Builders FirstSource, N.Charleston, SC

Run: 7.640 s Apr 22 2016 Print: 7.640 s Apr 22 2016 MiTek Industries, Inc. Fri Jan 12 08:28:44 2018 Page 1
 ID: SzABPCMxEuPMsuHkO6q6LKzwPcS-nISW9fDiboe2FFbucF7Mjkj6Q1rtRyMUw6cq4IzwA5n

-0-10-8	9-7-4	18-5-8	27-3-12	36-11-0	37-9-8
0-10-8	9-7-4	8-10-3	8-10-4	9-7-4	0-10-8

Scale = 1:60.6

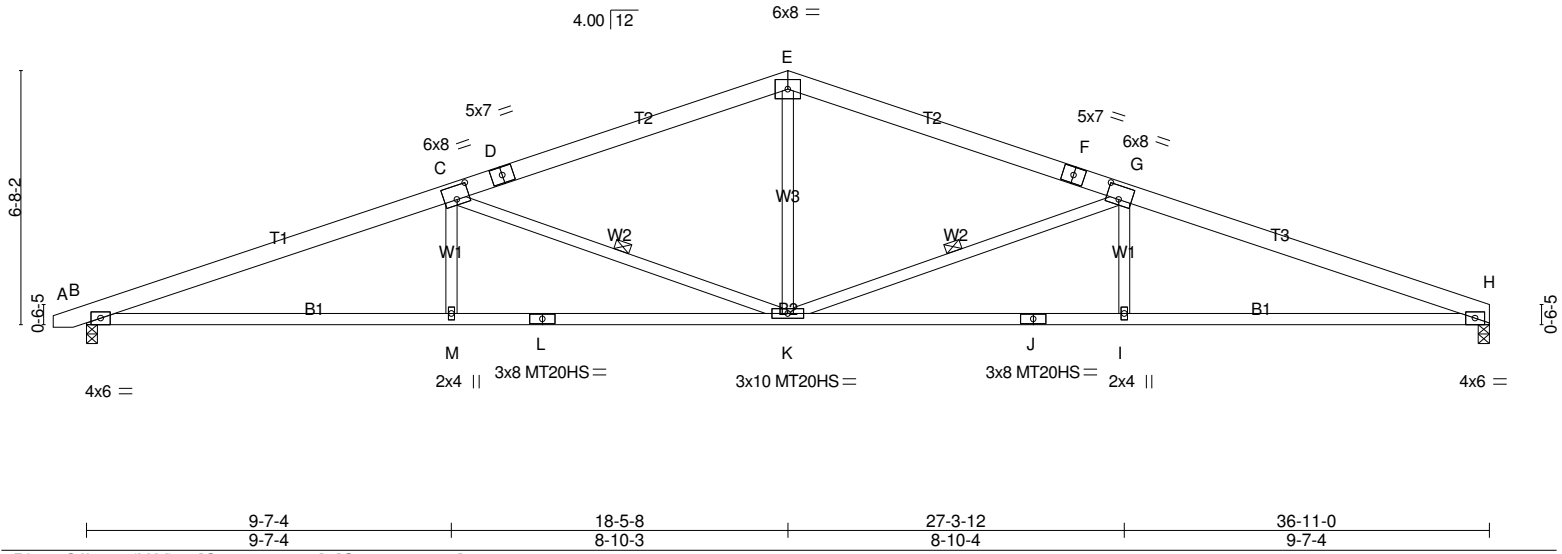


Plate Offsets (X,Y)-- [C:0-4-0,0-4-4], [G:0-4-0,0-4-4]					
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.69	Vert(LL) -0.23 K-M >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.99	Vert(TL) -0.68 K-M >655 240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr YES	WB 0.55	Horz(TL) 0.22 H n/a n/a		
BCDL 10.0	Code IRC2009/TPI2007	(Matrix-S)	Wind(LL) 0.43 K-M >999 240		Weight: 193 lb FT = 20%

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied.
 BOT CHORD Rigid ceiling directly applied.
 WEBS 1 Row at midpt G-K, C-K

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

REACTIONS. (lb/size) B=1514/0-3-8 (min. 0-1-13), H=1476/0-3-8 (min. 0-1-12)
 Max Horz B=195(LC 6)
 Max UpliftB=-1093(LC 8), H=-1025(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-3510/3149, C-D=-2436/2271, D-E=-2351/2301, E-F=-2351/2302, F-G=-2436/2271, G-H=-3513/3152
 BOT CHORD B-M=-2816/3256, L-M=-2816/3256, K-L=-2816/3256, J-K=-2819/3260, I-J=-2819/3260, H-I=-2819/3260
 WEBS E-K=-732/959, G-K=-1152/1182, G-I=0/355, C-K=-1148/1178, C-M=0/355

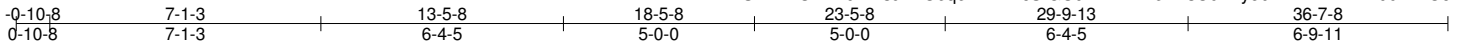
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=1093, H=1025.
 - This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

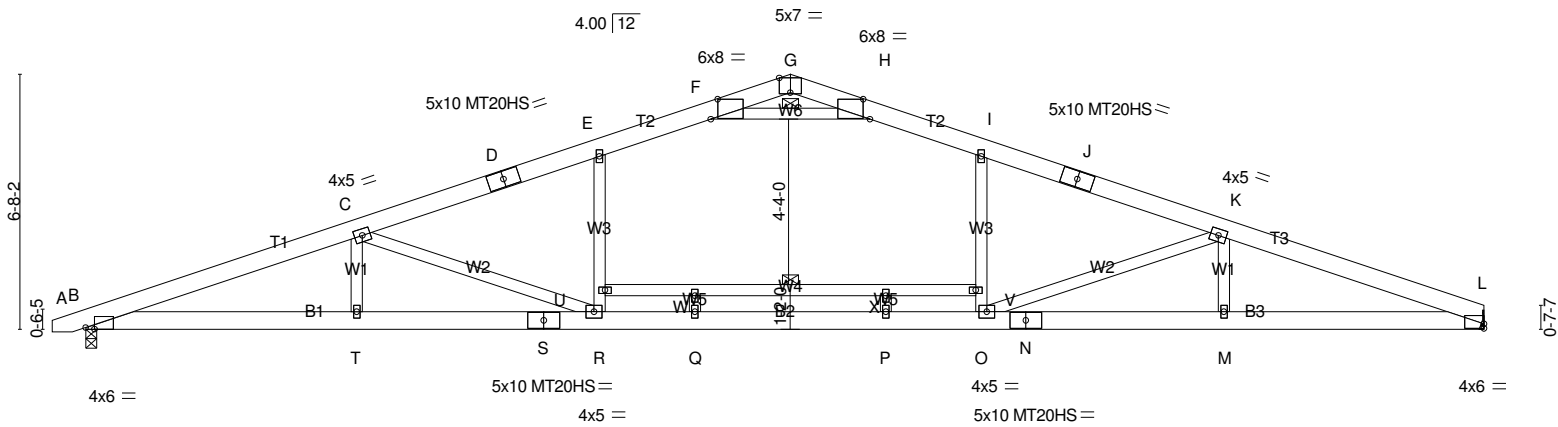
Job	Truss	Truss Type	Qty	Ply	H&H-NC/ENGAGE
MASTER	A04	Common	6	1	

Builders FirstSource, N.Charleston, SC

Run: 7.640 s Apr 22 2016 Print: 7.640 s Apr 22 2016 MiTek Industries, Inc. Fri Jan 12 08:28:45 2018 Page 1
 ID:SzABPCMxEuPMsuHkO6q6LKzwpCs-GU0vN?EKM6mvsO94AyeBFXFEExRLvA14d9mMOckzWA5m



Scale = 1:60.3



7-1-3	13-5-8	15-11-8	20-11-8	23-5-8	29-9-13	36-7-8
7-1-3	6-4-5	2-6-0	5-0-0	2-6-0	6-4-5	6-9-11

Plate Offsets (X,Y)-- [B:0-2-12,Edge], [F:0-2-3,0-6-4], [G:0-3-8,Edge], [H:0-2-2,0-6-4], [L:0-0-0,0-1-7]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.89	Vert(LL) -0.37	R-T	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.37	Vert(TL) -0.97	P-Q	>452	240	MT20HS	187/143
BCLL 0.0 *	Lumber DOL 1.15	WB 0.96	Horz(TL) 0.11	L	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	(Matrix-S)	Wind(LL) 0.51	P-Q	>870	240		
	Code IRC2009/TPI2007							Weight: 238 lb FT = 20%

LUMBER-
 TOP CHORD 2x6 SP No.1 *Except*
 T1,T3: 2x6 SP No.2
 BOT CHORD 2x6 SP DSS
 WEBS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied.
 BOT CHORD Rigid ceiling directly applied.
 WEBS 1 Row at midpt U-V, F-H

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

REACTIONS. (lb/size) B=1612/0-3-8 (min. 0-1-14), L=1555/Mechanical
 Max Horz B=160(LC 8)
 Max Uplift B=-546(LC 6), L=-486(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-3929/3010, C-D=-3095/2242, D-E=-2987/2249, E-F=-2759/2207, F-G=-618/1205,
 G-H=-617/1205, H-I=-2759/2207, I-J=-2986/2249, J-K=-3095/2241, K-L=-3909/2993
 BOT CHORD B-T=-2734/3689, S-T=-2734/3689, R-S=-2734/3689, Q-R=-1805/2875, P-Q=-1805/2875,
 O-P=-1805/2875, N-O=-2717/3668, M-N=-2717/3668, L-M=-2717/3668
 WEBS C-R=-1107/1039, R-U=-154/716, E-U=-149/736, O-V=-151/713, I-V=-145/733,
 K-O=-1103/1021, F-H=-4083/2977

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) 200.0lb AC unit load placed on the bottom chord, 18-5-8 from left end, supported at two points, 5-0-0 apart.
 - 4) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 5) All plates are MT20 plates unless otherwise indicated.
 - 6) All plates are 2x4 MT20 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.
 - 9) Refer to girder(s) for truss to truss connections.
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=546, L=486.
 - 11) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 12) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 13) 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	H&H-NC/ENGAGE
MASTER	A05	GABLE	1	1	Job Reference (optional)

Builders FirstSource, N.Charleston, SC

Run: 7.640 s Apr 22 2016 Print: 7.640 s Apr 22 2016 MiTek Industries, Inc. Fri Jan 12 08:28:46 2018 Page 1
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-0-10-8	18-5-8	36-7-8
0-10-8	18-5-8	18-2-0

Scale = 1:60.1

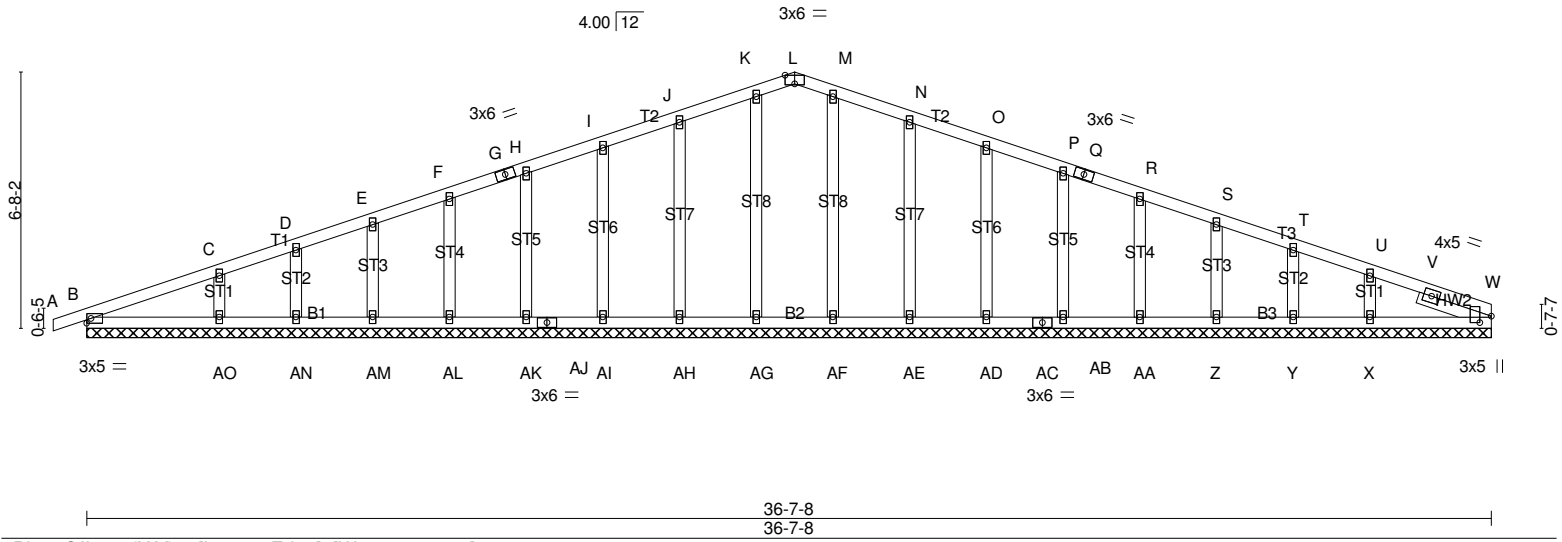


Plate Offsets (X,Y)-- [L:0-3-0,Edge], [W:0-2-0,0-3-10]

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 0.17	Vert(LL)	-0.00	A	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.09	Vert(TL)	0.00	A	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.09	Horz(TL)	0.01	W	n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix)						
								Weight: 199 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3
SLIDER Right 2x4 SP No.2 1-11-12

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 36-7-8.
(lb) - Max Horz B=184(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) W, AG except AH=-171(LC 8), AI=-140(LC 6), AK=-146(LC 8), AL=-143(LC 6), AM=-154(LC 8), AN=-110(LC 6), AO=-252(LC 6), AE=-177(LC 9), AD=-139(LC 7), AB=-147(LC 7), AA=-143(LC 9), Z=-152(LC 7), Y=-116(LC 9), X=-250(LC 7), B=-112(LC 8)
Max Grav All reactions 250 lb or less at joint(s) W, AG, AH, AI, AK, AL, AM, AN, AF, AE, AD, AB, AA, Z, Y, X, B except AO=268(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD I-J=-37/303, J-K=-37/381, K-L=-35/392, L-M=-35/392, M-N=-37/381, N-O=-37/303
WEBS C-AO=-192/312, U-X=-180/304

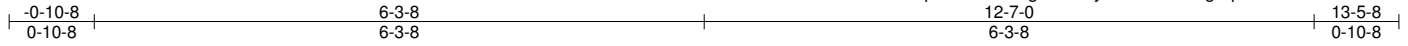
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 130mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for 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.
 - This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) W, AG except (it=lb) AH=171, AI=140, AK=146, AL=143, AM=154, AN=110, AO=252, AE=177, AD=139, AB=147, AA=143, Z=152, Y=116, X=250, B=112.
 - This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	H&H-NC/ENGAGE
MASTER	B01	GABLE	1	1	Job Reference (optional)

Builders FirstSource, N.Charleston, SC

Run: 7.640 s Apr 22 2016 Print: 7.640 s Apr 22 2016 MiTek Industries, Inc. Fri Jan 12 08:28:46 2018 Page 1
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Scale: 1/2"=1'

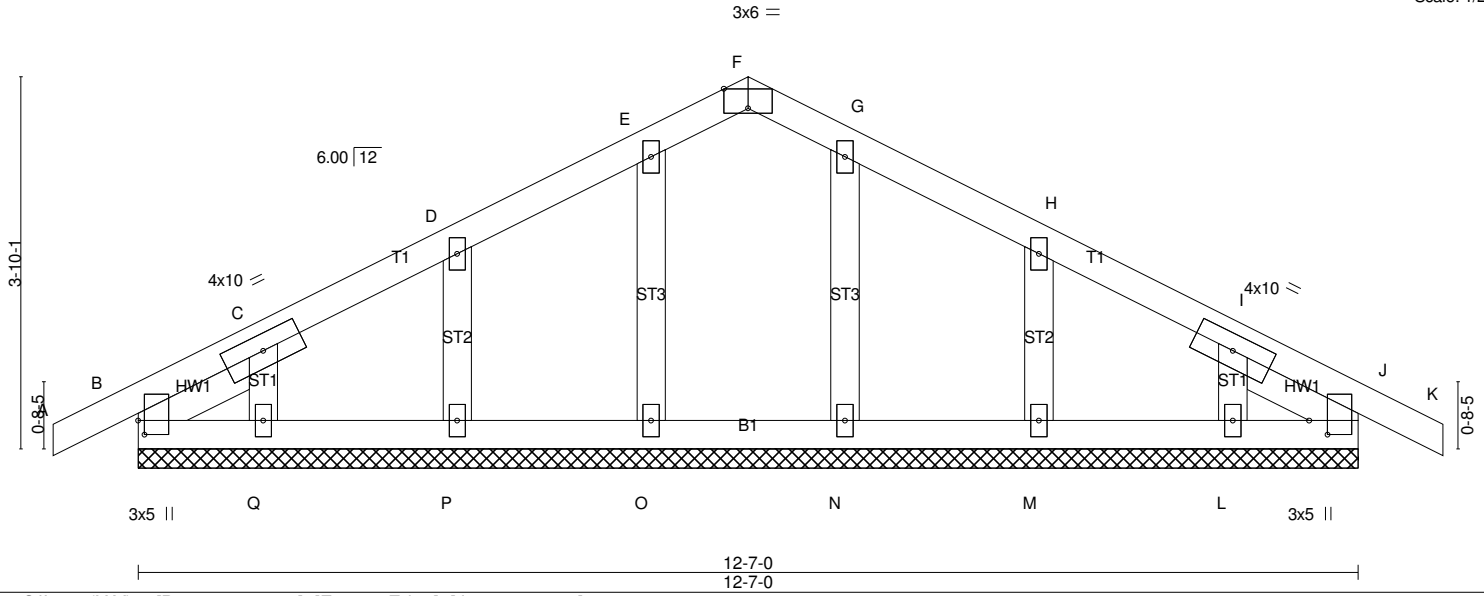


Plate Offsets (X,Y)-- [B:0-1-12,0-0-12], [F:0-3-0,Edge], [J:0-1-12,0-2-4]

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 0.09	Vert(LL)	-0.00	J	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(TL)	-0.00	K	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.08	Horz(TL)	0.00	J	n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix)						
								Weight: 63 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 OTHERS 2x4 SP No.3
 SLIDER Left 2x4 SP No.2 1-3-12, Right 2x4 SP No.2 1-3-12

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 12-7-0.
 (lb) - Max Horz B=97(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) B, J, O, N except P=-191(LC 8), Q=-169(LC 8), M=-194(LC 9), L=-161(LC 9)
 Max Grav All reactions 250 lb or less at joint(s) B, J, O, P, Q, N, M, L

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS D-P=-125/271, H-M=-125/271

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 130mph; TCCL=6.0psf; BCCL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; 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.
 - This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) B, J, O, N except (jt=lb) P=191, Q=169, M=194, L=161.
 - This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	H&H-NC/ENGAGE
MASTER	B02	Common Girder	1	2	Job Reference (optional)

Builders FirstSource, N.Charleston, SC

Run: 7.640 s Apr 22 2016 Print: 7.640 s Apr 22 2016 MiTek Industries, Inc. Fri Jan 12 08:28:47 2018 Page 1
ID:SzABPCMxEuPMSuHkO6q6LKzwPcS-Cs8fogFauj0d6iJTING3LMLhGE?UeKxwc4rUgdzwA5k

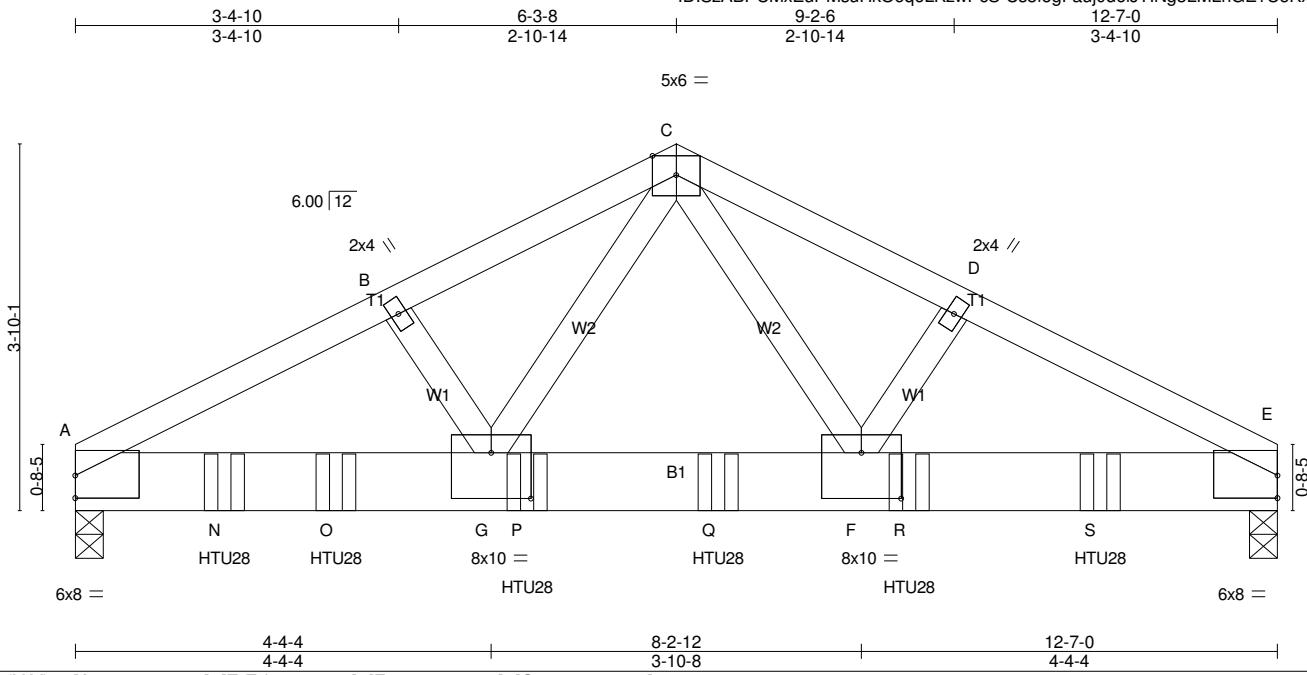


Plate Offsets (X,Y)-- [A:0-0-0,0-2-13], [E:Edge,0-2-13], [F:0-5-0,0-5-12], [G:0-5-0,0-5-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.39	Vert(LL) -0.06	F-G	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.42	Vert(TL) -0.16	F-G	>919	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.49	Horz(TL) 0.02	E	n/a	n/a		
BCDL 10.0	Rep Stress Incr NO	(Matrix-M)	Wind(LL) 0.09	F-G	>999	240		
	Code IRC2009/TPI2007						Weight: 151 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x8 SP DSS
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-3-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) A=5418/0-3-8 (min. 0-3-3), E=4798/0-3-8 (min. 0-2-13)
Max Horz A=-86(LC 4)
Max UpliftA=-1936(LC 6), E=-1735(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-7745/2780, B-C=-7658/2785, C-D=-7305/2671, D-E=-7390/2666
BOT CHORD A-N=-2477/6873, N-O=-2477/6873, G-O=-2477/6873, G-P=-1649/4848, P-Q=-1649/4848, F-Q=-1649/4848, F-R=-2289/6547,
R-S=-2289/6547, E-S=-2289/6547
WEBS C-F=-1225/3380, C-G=-1429/4011

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 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 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) A=1936, E=1735.
 - This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
 - Use Simpson Strong-Tie HTU28 (26-10d Girder, 14-10dx1 1/2 Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 1-6-12 from the left end to 10-8-12 to connect truss(es) A04 (1 ply 2x6 SP) to back face of bottom chord.
 - Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Job	Truss	Truss Type	Qty	Ply	H&H-NC/ENGAGE
MASTER	B02	Common Girder	1	2	Job Reference (optional)

Builders FirstSource, N.Charleston, SC

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LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: A-C=-60, C-E=-60, H-K=-20

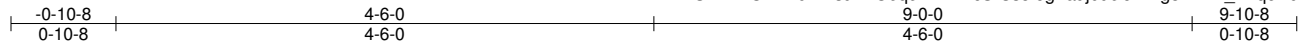
Concentrated Loads (lb)

Vert: N=-1535(B) O=-1535(B) P=-1535(B) Q=-1535(B) R=-1535(B) S=-1535(B)

Job	Truss	Truss Type	Qty	Ply	H&H-NC/ENGAGE
MASTER	C01	GABLE	1	1	Job Reference (optional)

Builders FirstSource, N.Charleston, SC

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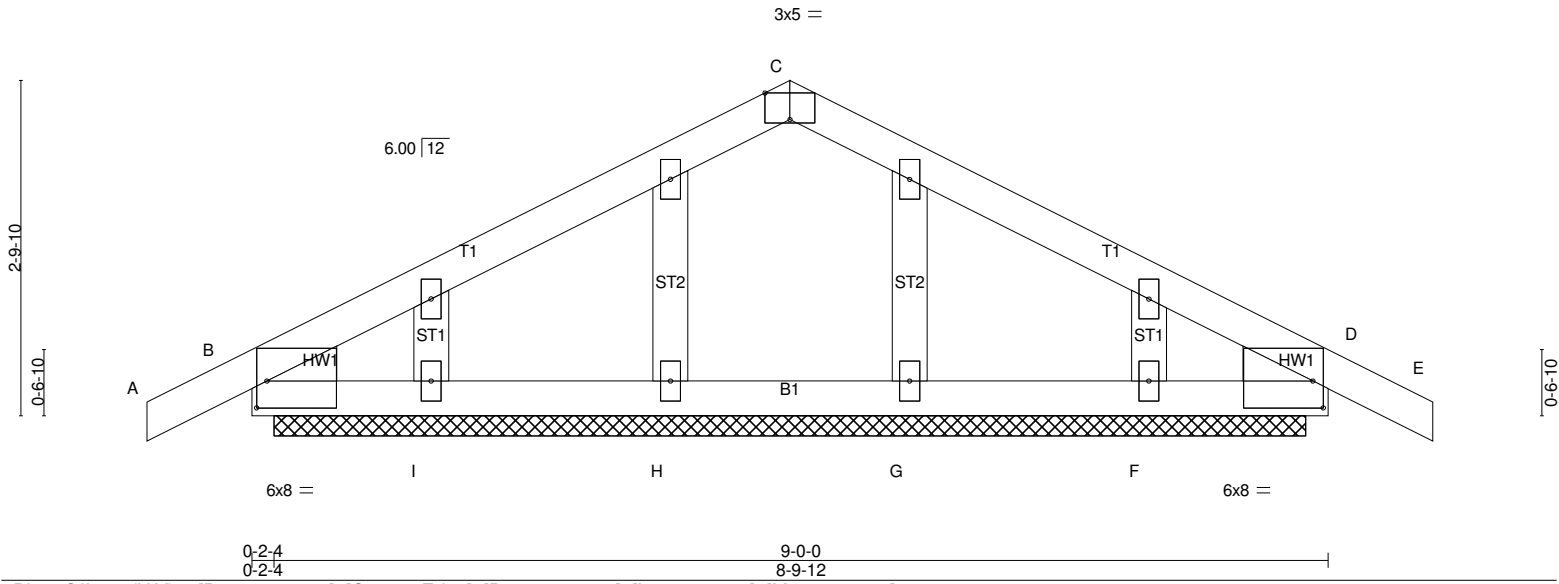


Plate Offsets (X,Y)-- [B:0-1-1,0-2-11], [C:0-2-8,Edge], [D:0-1-1,0-2-11], [L:0-0-0,0-0-0], [M:0-0-0,0-0-0]

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 0.41	Vert(LL)	0.01	E	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.27	Vert(TL)	0.01	E	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(TL)	0.00	D	n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix)							
									Weight: 41 lb	FT = 20%

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

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

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

REACTIONS. All bearings 8-7-8.
 (lb) - Max Horz B=-80(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) I, F except B=298(LC 8), D=299(LC 9)
 Max Grav All reactions 250 lb or less at joint(s) H, I, G, F except B=276(LC 1), D=276(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-332/469, C-D=-332/469

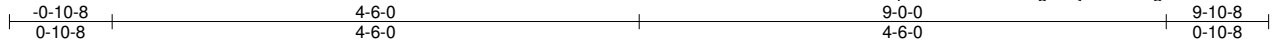
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; porch left and right exposed; C-C for members 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.
 - This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) I, F except (jt=lb) B=298, D=299.
 - Non Standard bearing condition. Review required.
 - This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	H&H-NC/ENGAGE
MASTER	C02	Common	1	1	Job Reference (optional)

Builders FirstSource, N.Charleston, SC

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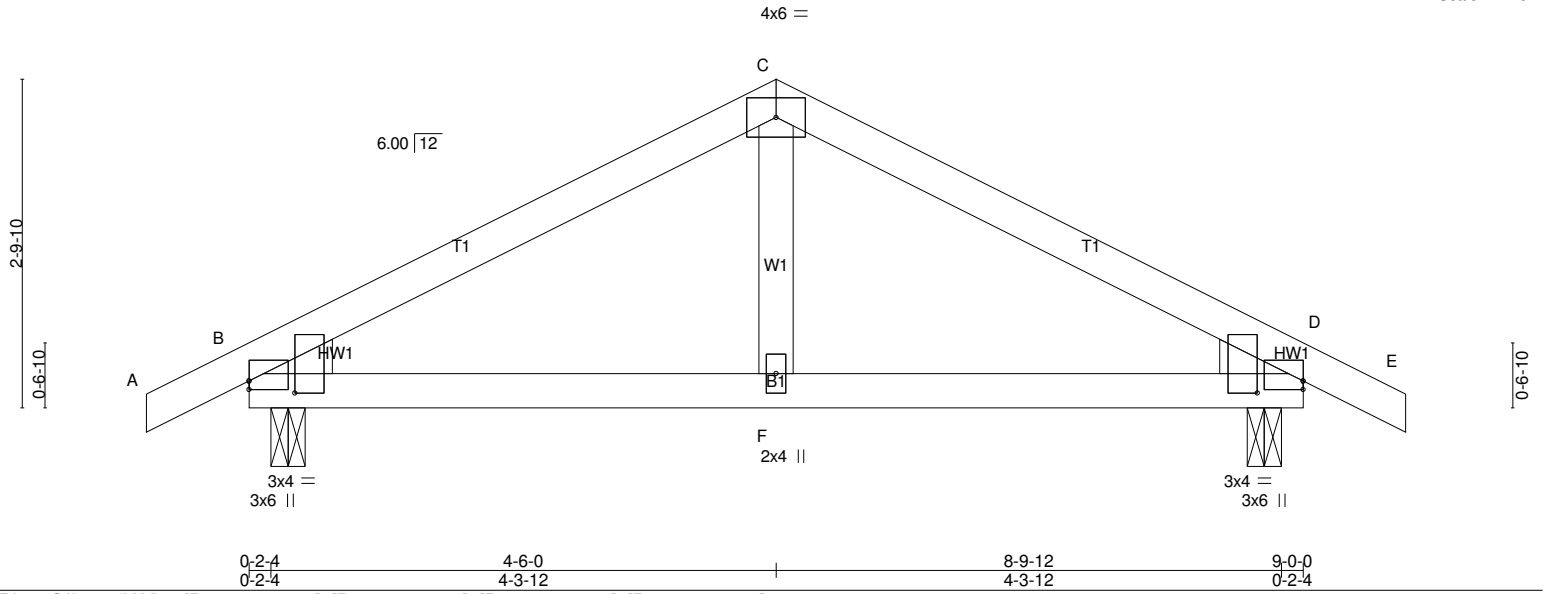


Plate Offsets (X,Y)-- [B:0-0-0,0-0-14], [B:0-1-4,0-4-11], [D:0-0-0,0-0-14], [D:0-1-4,0-4-11]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.42	Vert(LL)	-0.01	F-I	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.34	Vert(TL)	-0.03	F-I	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.09	Horz(TL)	-0.01	B	n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix-S)	Wind(LL)	0.04	F-L	>999	240		
									Weight: 37 lb	FT = 20%

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied.
 BOT CHORD Rigid ceiling directly applied.

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

REACTIONS. (lb/size) B=412/0-3-8 (min. 0-1-8), D=412/0-3-8 (min. 0-1-8)
 Max Horz B=-92(LC 9)
 Max UpliftB=-556(LC 8), D=-556(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-452/1128, C-D=-452/1128
 BOT CHORD B-F=-822/363, D-F=-822/363
 WEBS C-F=-533/183

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 130mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; porch 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 basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=556, D=556.
 - This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	H&H-NC/ENGAGE
MASTER	D01	Hip Girder	1	2	Job Reference (optional)

Builders FirstSource, N.Charleston, SC

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NOTES-

14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 39 lb down and 65 lb up at 4-7-4, 135 lb down and 238 lb up at 6-6-8, 116 lb down and 238 lb up at 8-7-4, 116 lb down and 238 lb up at 10-7-4, 116 lb down and 238 lb up at 12-7-4, 116 lb down and 238 lb up at 13-11-8, 116 lb down and 238 lb up at 15-3-12, 116 lb down and 238 lb up at 17-3-12, 116 lb down and 238 lb up at 19-3-12, and 135 lb down and 238 lb up at 21-4-8, and 39 lb down and 65 lb up at 23-3-12 on top chord, and 249 lb down and 249 lb up at 2-7-4, 170 lb down and 156 lb up at 4-7-4, 75 lb down and 27 lb up at 6-7-4, 75 lb down and 27 lb up at 8-7-4, 75 lb down and 27 lb up at 10-7-4, 75 lb down and 27 lb up at 12-7-4, 75 lb down and 27 lb up at 13-11-8, 75 lb down and 27 lb up at 15-3-12, 75 lb down and 27 lb up at 17-3-12, 75 lb down and 27 lb up at 19-3-12, 75 lb down and 27 lb up at 21-3-12, and 170 lb down and 156 lb up at 23-3-12, and 249 lb down and 249 lb up at 25-3-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: A-C=-60, C-E=-60, E-G=-60, L-O=-20

Concentrated Loads (lb)

Vert: C=-116(B) E=-116(B) K=-59(B) J=-59(B) H=-59(B) D=-116(B) S=-116(B) T=-116(B) U=-116(B) V=-116(B) W=-116(B) X=-116(B) Z=-249(B) AA=-170(B) AB=-59(B) AC=-59(B) AD=-59(B) AE=-59(B) AF=-59(B) AG=-59(B) AH=-170(B) AI=-249(B)

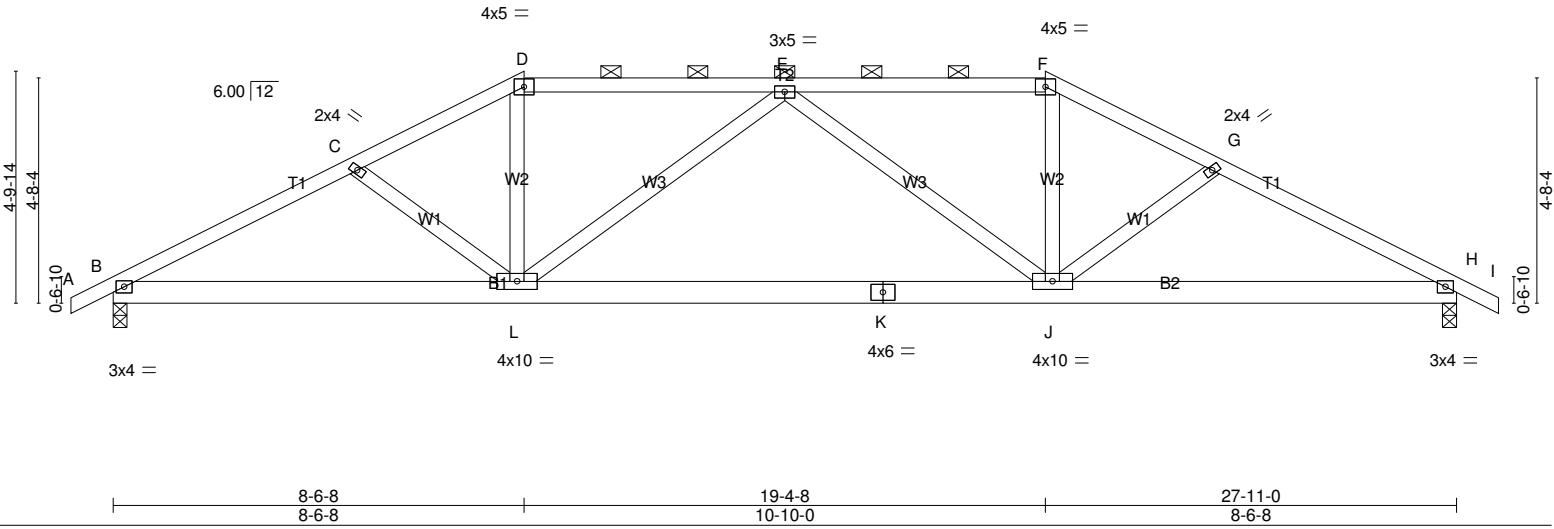
Job	Truss	Truss Type	Qty	Ply	H&H-NC/ENGAGE
MASTER	D02	Hip	1	1	Job Reference (optional)

Builders FirstSource, N.Charleston, SC

Run: 7.640 s Apr 22 2016 Print: 7.640 s Apr 22 2016 MiTek Industries, Inc. Fri Jan 12 08:28:49 2018 Page 1
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0-10-8	5-0-15	8-6-8	13-11-8	19-4-8	22-10-1	27-11-0	28-9-8
0-10-8	5-0-15	3-5-9	5-5-0	5-5-0	3-5-9	5-0-15	0-10-8

Scale: 1/4"=1'



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.55	Vert(LL)	-0.11	J-L	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.51	Vert(TL)	-0.34	J-L	>989		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.38	Horz(TL)	0.06	H	n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix-S)	Wind(LL)	0.13	J-L	>999		
								Weight: 157 lb	FT = 20%

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied, except
 2-0-0 oc purlins (4-4-12 max.): D-F.
 BOT CHORD Rigid ceiling directly applied.

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

REACTIONS. (lb/size) B=1169/0-3-8 (min. 0-1-8), H=1169/0-3-8 (min. 0-1-8)
 Max Horz B=-124(LC 9)
 Max Uplift B=-426(LC 8), H=-426(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-1988/1731, C-D=-1786/1574, D-E=-1556/1478, E-F=-1556/1478, F-G=-1786/1574,
 G-H=-1988/1731
 BOT CHORD B-L=-1359/1718, K-L=-1352/1804, J-K=-1352/1804, H-J=-1365/1718
 WEBS C-L=-190/393, D-L=-356/512, E-L=-402/399, E-J=-402/399, F-J=-356/512, G-J=-190/393

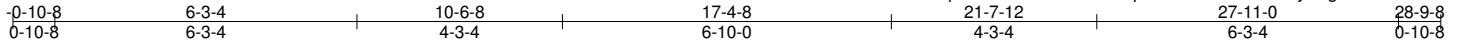
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 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) except (jt=lb) B=426, H=426.
 - 8) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	H&H-NC/ENGAGE
MASTER	D03	Hip	1	1	Job Reference (optional)

Builders FirstSource, N.Charleston, SC

Run: 7.640 s Apr 22 2016 Print: 7.640 s Apr 22 2016 MiTek Industries, Inc. Fri Jan 12 08:28:49 2018 Page 1
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Scale: 1/4"=1'

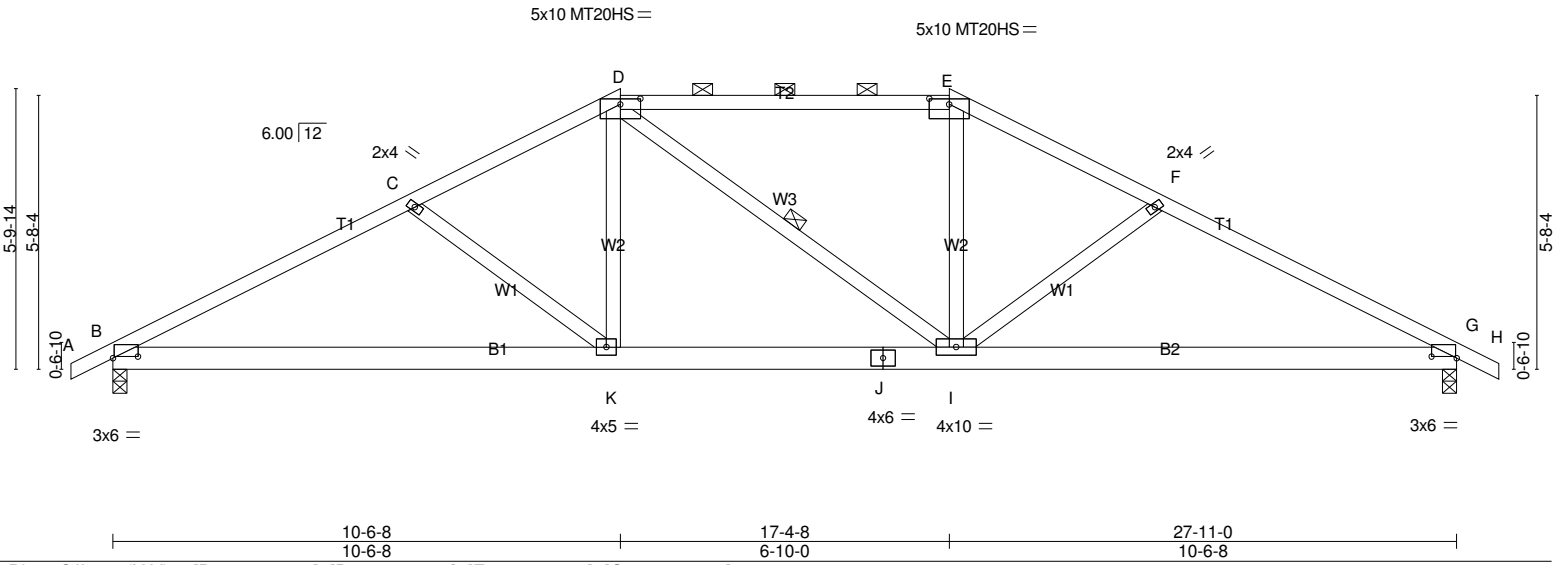


Plate Offsets (X,Y)-- [B:0-6-4,0-0-6], [D:0-5-0,0-1-7], [E:0-5-0,0-1-7], [G:0-6-4,0-0-6]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.75	Vert(LL) -0.09	K-N	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.49	Vert(TL) -0.26	K-N	>999	240	MT20HS	187/143
BCLL 0.0 *	Lumber DOL 1.15	WB 0.16	Horz(TL) 0.05	G	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	(Matrix-S)	Wind(LL) 0.10	I	>999	240		
	Code IRC2009/TPI2007						Weight: 156 lb	FT = 20%

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (3-3-3 max.): D-E.
 BOT CHORD Rigid ceiling directly applied.
 WEBS 1 Row at midpt D-I

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

REACTIONS. (lb/size) B=1169/0-3-8 (min. 0-1-8), G=1169/0-3-8 (min. 0-1-8)
 Max Horz B=-146(LC 9)
 Max Uplift B=-451(LC 8), G=-451(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-1906/1726, C-D=-1633/1523, D-E=-1411/1455, E-F=-1633/1522, F-G=-1906/1725
 BOT CHORD B-K=-1325/1637, J-K=-918/1411, I-J=-918/1411, G-I=-1329/1637
 WEBS C-K=-276/506, D-K=-215/419, E-I=-212/419, F-I=-276/507

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 130mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; 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) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) All plates are MT20 plates unless otherwise indicated.
 - 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=451, G=451.
 - 9) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	H&H-NC/ENGAGE
MASTER	D04	Hip	1	1	Job Reference (optional)

Builders FirstSource, N.Charleston, SC

Run: 7.640 s Apr 22 2016 Print: 7.640 s Apr 22 2016 MiTek Industries, Inc. Fri Jan 12 08:28:49 2018 Page 1
 ID:SzABPCMxEuPMsuHkO6q6LKzWpCS-8FFPDMHqQKGLLOTrPoiXQnQye2iS6EWD4OKbIVzwA5i

0-10-8	6-3-12	12-6-8	15-4-8	21-7-4	27-11-0	28-9-8
0-10-8	6-3-12	6-2-12	2-10-0	6-2-12	6-3-12	0-10-8

Scale: 1/4"=1'

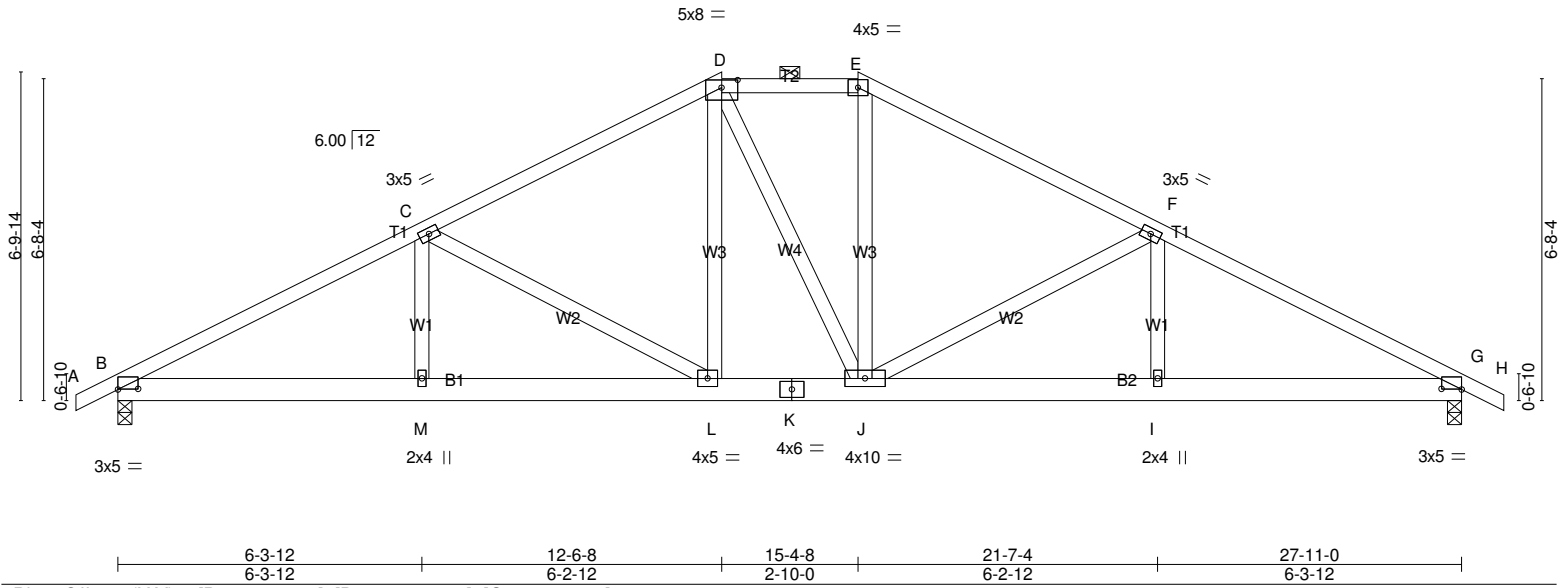


Plate Offsets (X,Y)-- [B:0-5-0,0-0-2], [D:0-4-0,0-1-15], [G:0-5-0,0-0-2]					
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.72	Vert(LL) -0.07 L >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.33	Vert(TL) -0.18 L-M >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.49	Horz(TL) 0.05 G n/a n/a		
BCDL 10.0	Code IRC2009/TPI2007	(Matrix-S)	Wind(LL) 0.11 L >999 240		
				Weight: 171 lb	FT = 20%

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (5-1-3 max.); D-E.
 BOT CHORD Rigid ceiling directly applied.

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

REACTIONS. (lb/size) B=1169/0-3-8 (min. 0-1-8), G=1169/0-3-8 (min. 0-1-8)
 Max Horz B=-168(LC 9)
 Max Uplift B=-473(LC 8), G=-473(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-1972/1747, C-D=-1466/1423, D-E=-1231/1392, E-F=-1468/1425, F-G=-1971/1746
 BOT CHORD B-M=-1352/1697, L-M=-1352/1697, K-L=-759/1228, J-K=-759/1228, I-J=-1358/1696,
 G-I=-1358/1696
 WEBS C-L=-538/676, D-L=-272/364, E-J=-275/369, F-J=-534/673

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 130mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; 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) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 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) except (jt=lb) B=473, G=473.
 - 8) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	H&H-NC/ENGAGE
MASTER	D05	Common	4	1	Job Reference (optional)

Builders FirstSource, N.Charleston, SC

Run: 7.640 s Apr 22 2016 Print: 7.640 s Apr 22 2016 MiTek Industries, Inc. Fri Jan 12 08:28:50 2018 Page 1
 ID:SzABPCMxEuPMsuHkO6q6LKzwPcS-cRpoQiHTBeOCzA2zWDmy?z8JSv6raJMI239HyzwA5h

0-10-8	6-8-12	12-5-8	13-11-8	15-5-8	21-2-4	27-11-0	28-9-8
0-10-8	6-8-12	5-8-12	1-6-0	1-6-0	5-8-12	6-8-12	0-10-8

Scale: 1/4"=1'

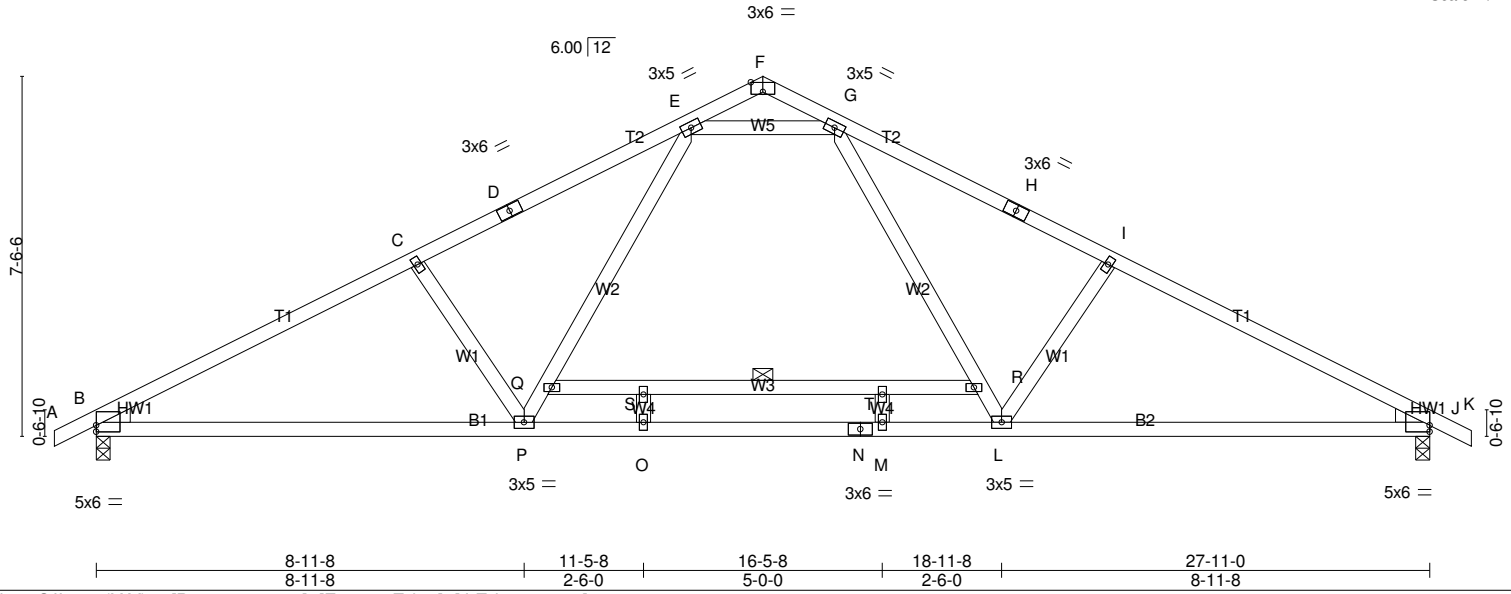


Plate Offsets (X,Y)-- [B:0-0,0-1-10], [F:0-3-0,Edge], [J:Edge,0-1-10]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.66	Vert(LL) -0.14	L	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.94	Vert(TL) -0.75	M-O	>446	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.90	Horz(TL) 0.10	J	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	(Matrix-S)	Wind(LL) 0.17	P	>999	240		
	Code IRC2009/TPI2007						Weight: 146 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt Q-R
WEDGE	
Left: 2x4 SP No.3, Right: 2x4 SP No.3	

REACTIONS. (lb/size) B=1271/0-3-8 (min. 0-1-8), J=1271/0-3-8 (min. 0-1-8)
 Max Horz B=-186(LC 9)
 Max Uplift B=-387(LC 8), J=-387(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-2129/1493, C-D=-1919/1427, D-E=-1839/1455, G-H=-1839/1455, H-I=-1919/1427, I-J=-2129/1493
 BOT CHORD B-P=-1116/1818, O-P=-611/1382, N-O=-611/1382, M-N=-611/1382, L-M=-611/1382, J-L=-1119/1818
 WEBS G-R=-336/682, L-R=-381/607, I-L=-377/621, P-Q=-381/607, E-Q=-337/682, C-P=-377/621, E-G=-1421/1474

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; 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) 200.0lb AC unit load placed on the bottom chord, 13-11-8 from left end, supported at two points, 5-0-0 apart.
 - 4) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 5) All plates are 2x4 MT20 unless otherwise indicated.
 - 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=387, J=387.
 - 9) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	H&H-NC/ENGAGE
MASTER	D06	Half Hip	1	1	Job Reference (optional)

Builders FirstSource, N.Charleston, SC

Run: 7.640 s Apr 22 2016 Print: 7.640 s Apr 22 2016 MiTek Industries, Inc. Fri Jan 12 08:28:50 2018 Page 1
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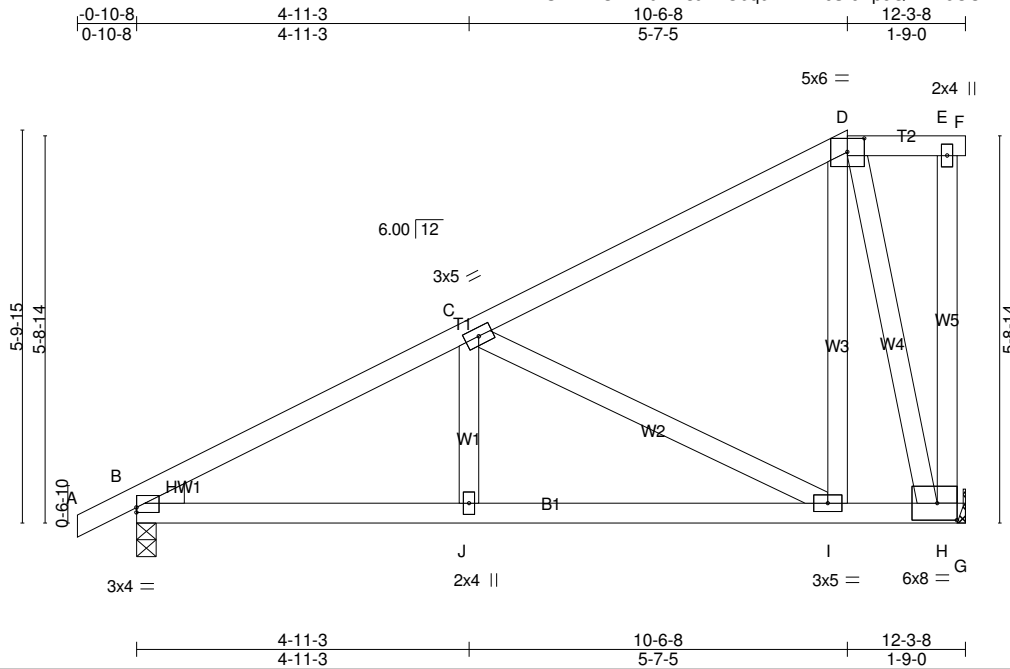


Plate Offsets (X,Y)-- [B:0-0-0,0-0-14], [D:0-3-0,0-2-7], [H:0-3-8,0-3-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.48	Vert(LL)	-0.02	I-J	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.26	Vert(TL)	-0.07	I-J	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.35	Horz(TL)	-0.01	H	n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix-S)	Wind(LL)	0.03	J	>999	240		
									Weight: 76 lb	FT = 20%

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): D-F.
 BOT CHORD Rigid ceiling directly applied.

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

REACTIONS. (lb/size) H=490/Mechanical, B=537/0-3-8 (min. 0-1-8)
 Max Horz B=507(LC 8)
 Max UpliftH=-450(LC 8), B=-370(LC 8)
 Max Grav H=490(LC 1), B=537(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-706/445
 BOT CHORD B-J=-820/578, I-J=-820/578
 WEBS C-I=-486/708, D-I=-245/343, D-H=-516/680

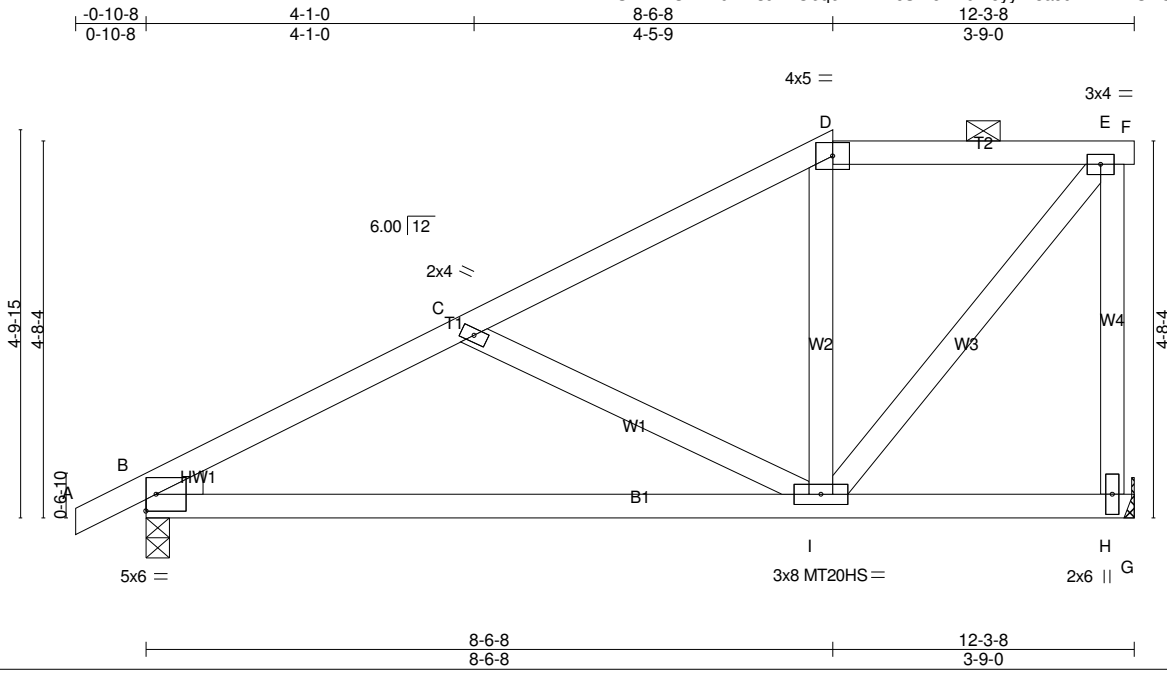
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) H=450, B=370.
 - 9) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	H&H-NC/ENGAGE
MASTER	D07	Half Hip	1	1	Job Reference (optional)

Builders FirstSource, N.Charleston, SC

Run: 7.640 s Apr 22 2016 Print: 7.640 s Apr 22 2016 MiTek Industries, Inc. Fri Jan 12 08:28:51 2018 Page 1
 ID:SzABPCMxEuPMsuHkO6q6LKzwPcS-4eNAd2I5yyW3aJdEXDI?VCVODsMyaAKWXipipOzwA59



Scale = 1:28.7

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.33	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.45	Vert(LL) -0.08 I-L >999 360	MT20HS	187/143
BCLL 0.0 *	Lumber DOL 1.15	WB 0.34	Vert(TL) -0.20 I-L >714 240		
BCDL 10.0	Rep Stress Incr YES	(Matrix-S)	Horz(TL) -0.01 H n/a n/a		
	Code IRC2009/TPI2007		Wind(LL) 0.02 I-L >999 240		
				Weight: 68 lb	FT = 20%

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): D-F.
 BOT CHORD Rigid ceiling directly applied.

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

REACTIONS. (lb/size) H=490/Mechanical, B=535/0-3-8 (min. 0-1-8)
 Max Horz B=415(LC 8)
 Max Uplift H=-373(LC 8), B=-394(LC 8)
 Max Grav H=490(LC 1), B=535(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-674/613, C-D=-404/291, D-E=-310/373, E-H=-467/590
 BOT CHORD B-I=-871/589
 WEBS C-I=-316/568, D-I=-95/275, E-I=-565/474

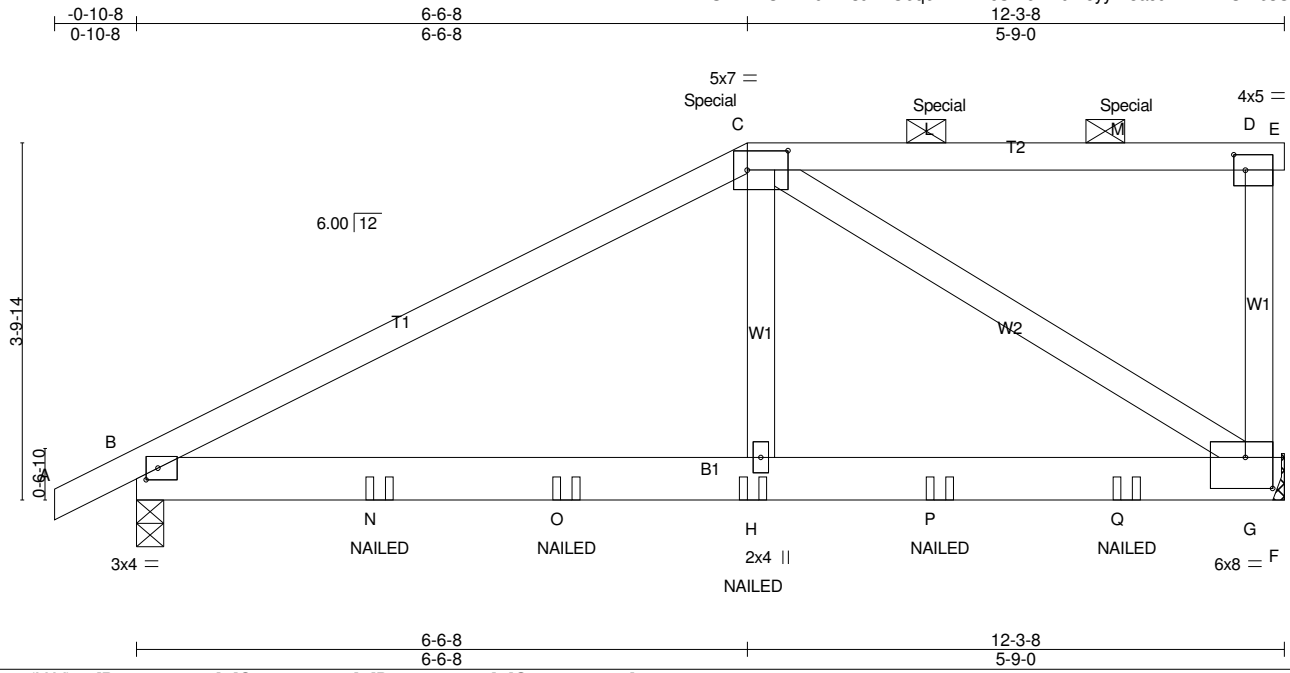
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) All plates are MT20 plates unless otherwise indicated.
 - 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) Refer to girder(s) for truss to truss connections.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) H=373, B=394.
 - 10) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	H&H-NC/ENGAGE
MASTER	D08	Half Hip Girder	1	2	Job Reference (optional)

Builders FirstSource, N.Charleston, SC

Run: 7.640 s Apr 22 2016 Print: 7.640 s Apr 22 2016 MiTek Industries, Inc. Fri Jan 12 08:28:51 2018 Page 1
ID:SzABPCMxEuPMsuHkO6q6LKzwPcS-4eNAd2l5yyW3aJdEXDI?VCVl6sO?aDyWXipipOzwA5g



Scale = 1:24.7

Plate Offsets (X,Y)-- [B:0-1-8,0-1-8], [C:0-5-4,0-2-8], [D:0-1-8,0-2-0], [G:0-3-8,0-4-0]

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 0.72	Vert(LL)	-0.02	H-K	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.32	Vert(TL)	-0.07	H-K	>999	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.17	Horz(TL)	-0.01	G	n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix-M)	Wind(LL)	0.06	H-K	>999	240		
									Weight: 135 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.); C-E.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) B=940/0-3-8 (min. 0-1-8), G=1067/Mechanical
Max Horz B=339(LC 6)
Max Uplift B=-910(LC 6), G=-1284(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-1237/1217, D-G=-472/668
BOT CHORD B-N=-1209/1039, N-O=-1209/1039, H-O=-1209/1039, H-P=-1215/1052, P-Q=-1215/1052, G-Q=-1215/1052
WEBS C-H=-136/445, C-G=-1125/1277

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 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 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=910, G=1284.
- This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails. For more details refer to MiTek's ST-TOENAIL Detail.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 267 lb down and 414 lb up at 6-6-8, and 248 lb down and 420 lb up at 8-7-4, and 248 lb down and 420 lb up at 10-7-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	H&H-NC/ENGAGE
MASTER	D08	Half Hip Girder	1	2	Job Reference (optional)

Builders FirstSource, N.Charleston, SC

Run: 7.640 s Apr 22 2016 Print: 7.640 s Apr 22 2016 MiTek Industries, Inc. Fri Jan 12 08:28:51 2018 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: A-C=-60, C-D=-60, D-E=-20, F-I=-20

Concentrated Loads (lb)

Vert: H=23(B) C=-248(B) L=-248(B) M=-248(B) N=-130(B) O=-177(B) P=23(B) Q=23(B)

Job	Truss	Truss Type	Qty	Ply	H&H-NC/ENGAGE
MASTER	E01	GABLE	1	1	Job Reference (optional)

Builders FirstSource, N.Charleston, SC

Run: 7.640 s Apr 22 2016 Print: 7.640 s Apr 22 2016 MiTek Industries, Inc. Fri Jan 12 08:28:51 2018 Page 1
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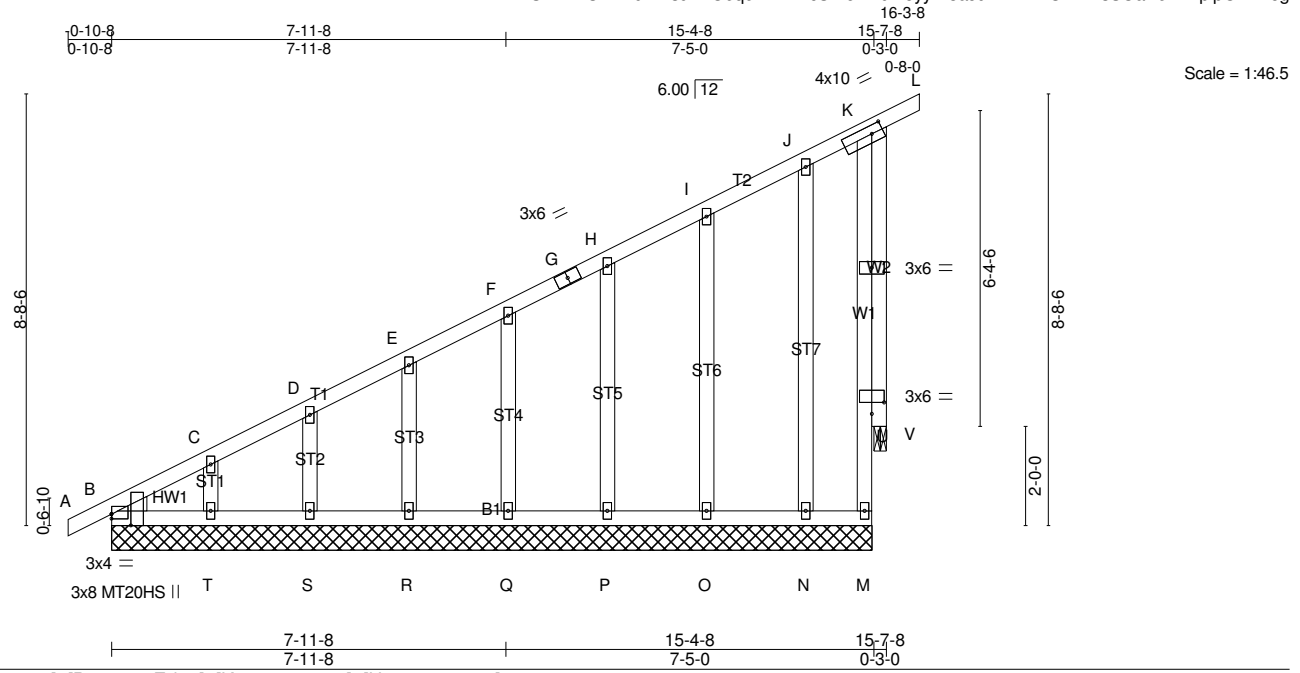


Plate Offsets (X,Y)-- [B:0-0-0,0-1-2], [B:0-2-12,Edge], [K:0-2-12,0-2-0], [U:0-3-0,0-2-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.17	Vert(LL) -0.00	B	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.10	Vert(TL) -0.00	B	>999	240	MT20HS	187/143
BCLL 0.0 *	Lumber DOL 1.15	WB 0.10	Horz(TL) 0.02	V	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	(Matrix)	Wind(LL) 0.00	N	>999	240		
	Code IRC2009/TPI2007							Weight: 114 lb FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.2
 OTHERS 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. All bearings 15-4-0 except (jt=length) V=0-3-0.
 (lb) - Max Horz B=664(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) except M=-119(LC 7), T=-244(LC 8), S=-171(LC 8), R=-169(LC 8), Q=-169(LC 8), P=-169(LC 8), O=-177(LC 8), N=-116(LC 8), V=-175(LC 9)
 Max Grav All reactions 250 lb or less at joint(s) B, M, T, S, R, Q, P, O, N, V

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-919/30, C-D=-753/25, D-E=-641/25, E-F=-530/25, F-G=-419/0, G-H=-412/25,
 H-I=-308/25
 WEBS C-T=-120/325

- NOTES-**
- 1) Wind: ASCE 7-05; 130mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; 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) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 4) All plates are MT20 plates unless otherwise indicated.
 - 5) All plates are 2x4 MT20 unless otherwise indicated.
 - 6) Gable studs spaced at 2-0-0 oc.
 - 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.
 - 9) Bearing at joint(s) V considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 119 lb uplift at joint M, 244 lb uplift at joint T, 171 lb uplift at joint S, 169 lb uplift at joint R, 169 lb uplift at joint Q, 169 lb uplift at joint P, 177 lb uplift at joint O, 116 lb uplift at joint N and 175 lb uplift at joint V.
 - 11) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 12) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	H&H-NC/ENGAGE
MASTER	E02	Monopitch	6	1	Job Reference (optional)

Builders FirstSource, N.Charleston, SC

Run: 7.640 s Apr 22 2016 Print: 7.640 s Apr 22 2016 MiTek Industries, Inc. Fri Jan 12 08:28:52 2018 Page 1
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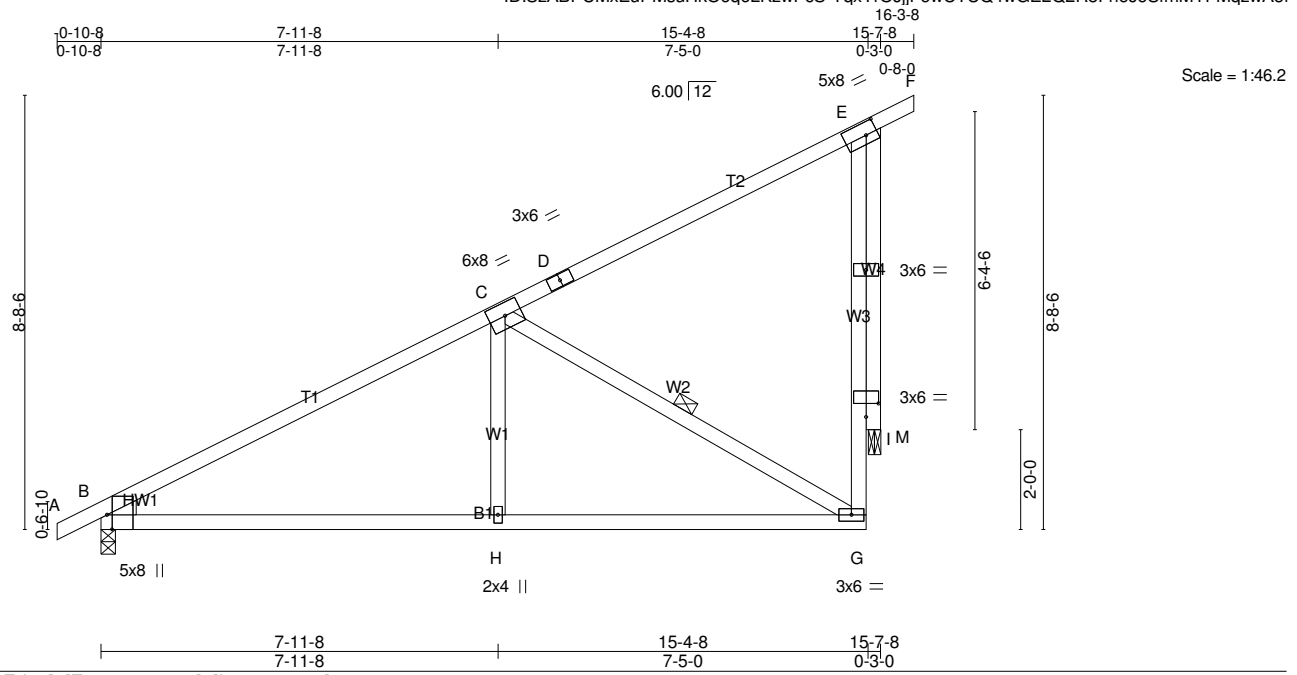


Plate Offsets (X,Y)-- [B:0-3-8,Edge], [E:0-2-12,0-3-0], [I:0-3-0,0-3-4]

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 0.83	Vert(LL)	-0.06	H-L	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.55	Vert(TL)	-0.20	H-L	>928		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.28	Horz(TL)	-0.11	M	n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix-S)	Wind(LL)	0.21	H-L	>898		
								Weight: 91 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.2 *Except*
 W1,W2: 2x4 SP No.3

WEDGE
 Left: 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied, except end verticals.
 BOT CHORD Rigid ceiling directly applied.
 WEBS 1 Row at midpt C-G

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

REACTIONS. (lb/size) B=673/0-3-8 (min. 0-1-8), M=661/0-3-0 (min. 0-1-8)
 Max Horz B=673(LC 8)
 Max Uplift B=-396(LC 8), M=-724(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-835/304, G-I=-443/429, E-I=-443/429
 BOT CHORD B-H=-957/675, G-H=-957/675
 WEBS C-H=0/335, C-G=-726/948

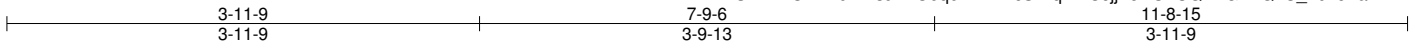
- NOTES-**
- 1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Bearing at joint(s) M considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 396 lb uplift at joint B and 724 lb uplift at joint M.
 - 7) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	H&H-NC/ENGAGE
MASTER	FG01	Flat Girder	1	2	Job Reference (optional)

Builders FirstSource, N.Charleston, SC

Run: 7.640 s Apr 22 2016 Print: 7.640 s Apr 22 2016 MiTek Industries, Inc. Fri Jan 12 08:28:52 2018 Page 1
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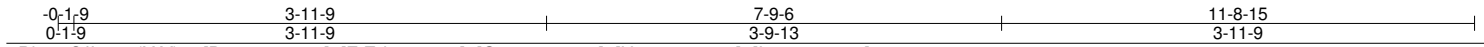
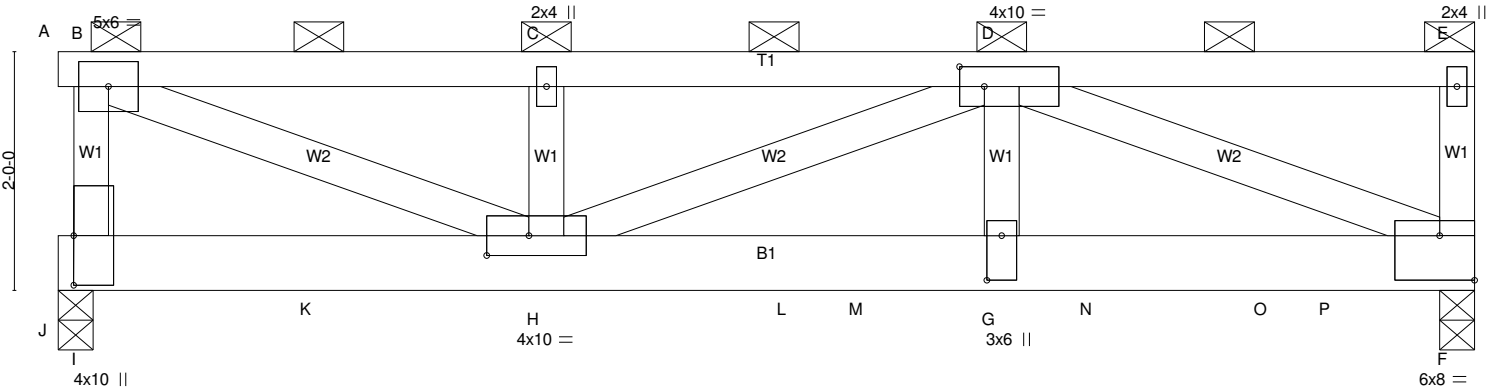


Plate Offsets (X,Y)-- [D:0-2-8,0-2-0], [F:Edge,0-4-8], [G:0-4-8,0-1-8], [H:0-4-4,0-2-0], [I:0-5-0,0-0-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.65	Vert(LL) -0.08	G-H	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.78	Vert(TL) -0.18	G-H	>755	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.66	Horz(TL) -0.03	F	n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007	(Matrix-M)	Wind(LL) 0.21	G-H	>669	240		
							Weight: 139 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2

BRACING-
 TOP CHORD 2-0-0 oc purlins (5-3-3 max.): A-E, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 5-11-6 oc bracing.

REACTIONS. (lb/size) I=2654/0-3-8 (min. 0-1-9), F=3464/0-3-8 (min. 0-2-1)
 Max Horz I=132(LC 5)
 Max UpliftI=-2886(LC 4), F=-3690(LC 5)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-I=-2267/2521, B-C=-5165/5696, C-D=-5165/5696, D-E=-224/267
 BOT CHORD I-K=-337/224, H-K=-337/224, H-L=-6703/6125, L-M=-6703/6125, G-M=-6703/6125, G-N=-6703/6125, N-O=-6703/6125,
 O-P=-6703/6125, F-P=-6703/6125
 WEBS B-H=-5909/5370, C-H=-182/302, D-G=-2904/2719, D-F=-6413/6998, D-H=-1043/1105

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 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.
 - Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2886 lb uplift at joint I and 3690 lb uplift at joint F.
 - This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 641 lb down and 736 lb up at 2-0-12, 641 lb down and 736 lb up at 4-0-12, 641 lb down and 736 lb up at 6-0-12, 1047 lb down and 1296 lb up at 6-8-0, 641 lb down and 736 lb up at 8-0-12, 470 lb down and 385 lb up at 8-7-4, and 641 lb down and 736 lb up at 10-0-12, and 470 lb down and 462 lb up at 10-7-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	H&H-NC/ENGAGE
MASTER	FG01	Flat Girder	1	2	Job Reference (optional)

Builders FirstSource, N.Charleston, SC

Run: 7.640 s Apr 22 2016 Print: 7.640 s Apr 22 2016 MiTek Industries, Inc. Fri Jan 12 08:28:52 2018 Page 2
 ID:SzABPCMxEuPMsuHkO6q6LKzwPcS-YqxYrOjJjFewCTCQ4wGE2Q2U_Fd?JYafmMYFMqzwA5f

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: A-B=-20, B-E=-60, F-J=-20

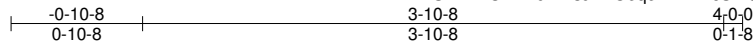
Concentrated Loads (lb)

Vert: H=-641(B) G=-641(B) K=-641(B) L=-641(B) M=-1047(F) N=-470(F) O=-641(B) P=-470(F)

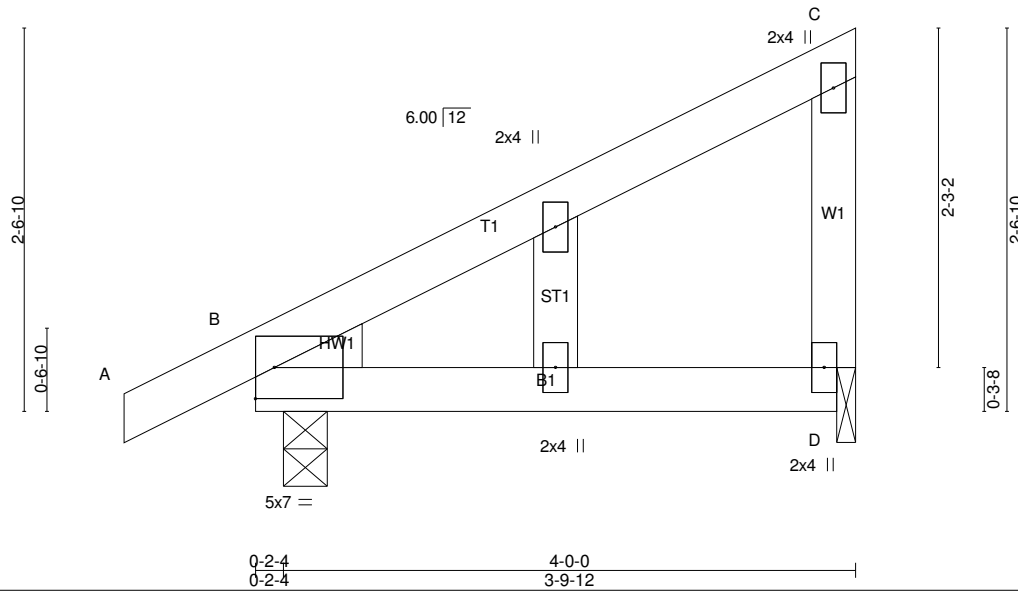
Job	Truss	Truss Type	Qty	Ply	H&H-NC/ENGAGE
MASTER	G01	GABLE	2	1	Job Reference (optional)

Builders FirstSource, N.Charleston, SC

Run: 7.640 s Apr 22 2016 Print: 7.640 s Apr 22 2016 MiTek Industries, Inc. Fri Jan 12 08:28:53 2018 Page 1
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Scale = 1:15.4



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 0.43	Vert(LL) -0.01 D-I >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.45	Vert(TL) -0.03 D-I >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(TL) -0.01 B n/a n/a		
BCDL 10.0	Code IRC2009/TPI2007	(Matrix-M)	Wind(LL) 0.07 D-I >700 240	Weight: 19 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP 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 3-10-8 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) B=213/0-3-8 (min. 0-1-8), D=148/0-1-8 (min. 0-1-8)
 Max Horz B=221(LC 8)
 Max Uplift B=-266(LC 8), D=-254(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD C-D=-97/273

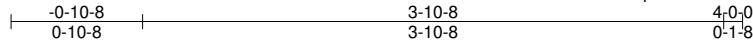
- NOTES-**
- 1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; cantilever left exposed ; end vertical left exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 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) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 4) Gable studs spaced at 2-0-0 oc.
 - 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) Bearing at joint(s) D considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 8) Provide mechanical connection (by others) of truss to bearing plate at joint(s) D.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 266 lb uplift at joint B and 254 lb uplift at joint D.
 - 10) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 11) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

LOAD CASE(S) Standard

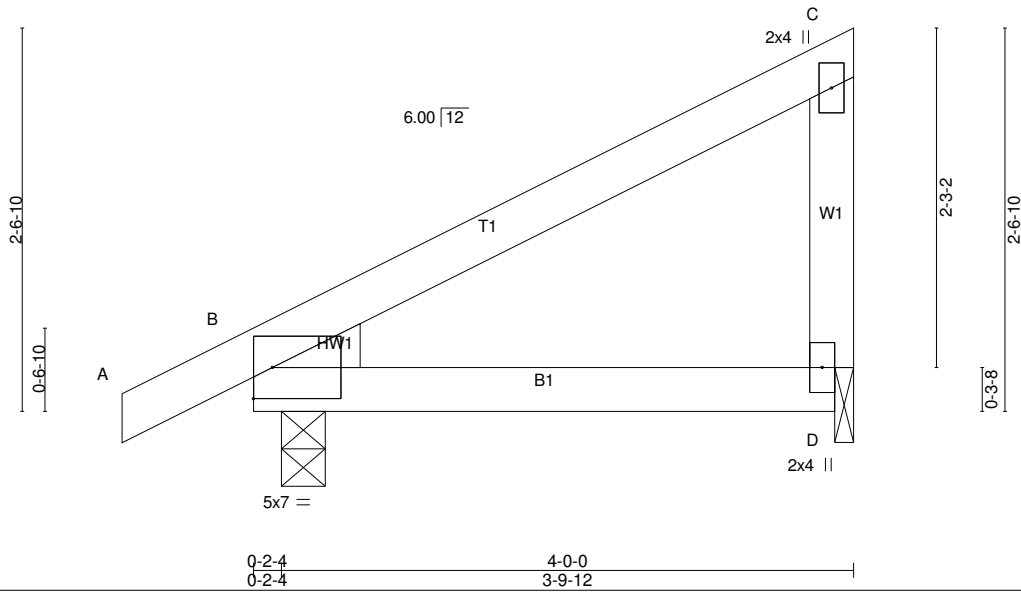
Job	Truss	Truss Type	Qty	Ply	H&H-NC/ENGAGE
MASTER	G02	Monopitch	4	1	Job Reference (optional)

Builders FirstSource, N.Charleston, SC

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Scale = 1:15.4



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.43	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.45	Vert(LL) -0.01 D-G >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Vert(TL) -0.03 D-G >999 240		
BCDL 10.0	Rep Stress Incr YES	(Matrix-M)	Horz(TL) -0.01 B n/a n/a		
	Code IRC2009/TPI2007		Wind(LL) 0.07 D-G >700 240	Weight: 18 lb	FT = 20%

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 3-10-8 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) B=213/0-3-8 (min. 0-1-8), D=148/0-1-8 (min. 0-1-8)
 Max Horz B=221(LC 8)
 Max Uplift B=-266(LC 8), D=-254(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD C-D=-97/273

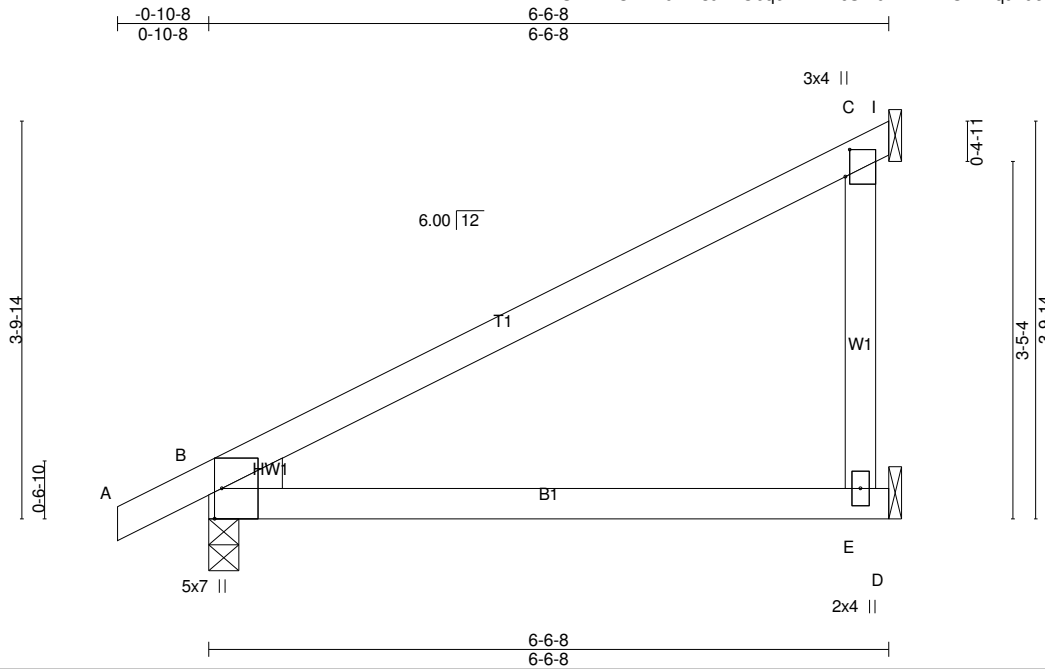
- NOTES-**
- 1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; cantilever left exposed; end vertical left exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Bearing at joint(s) D considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) D.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 266 lb uplift at joint B and 254 lb uplift at joint D.
 - 8) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	H&H-NC/ENGAGE
MASTER	J01	Jack-Open	12	1	Job Reference (optional)

Builders FirstSource, N.Charleston, SC

Run: 7.640 s Apr 22 2016 Print: 7.640 s Apr 22 2016 MiTek Industries, Inc. Fri Jan 12 08:28:53 2018 Page 1
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Scale = 1:22.2

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

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 0.88	Vert(LL)	-0.07	E-H	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.88	Vert(TL)	-0.20	E-H	>382	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.07	Horz(TL)	-0.03	C	n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix-S)	Wind(LL)	0.20	E-H	>370	240		
									Weight: 28 lb	FT = 20%

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied.
 BOT CHORD Rigid ceiling directly applied.

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

REACTIONS. (lb/size) B=314/0-3-8 (min. 0-1-8), E=-54/Mechanical, C=308/Mechanical
 Max Horz B=338(LC 8)
 Max Uplift B=-224(LC 8), E=-54(LC 1), C=-446(LC 8)
 Max Grav B=314(LC 1), E=161(LC 8), C=308(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS C-E=-281/140

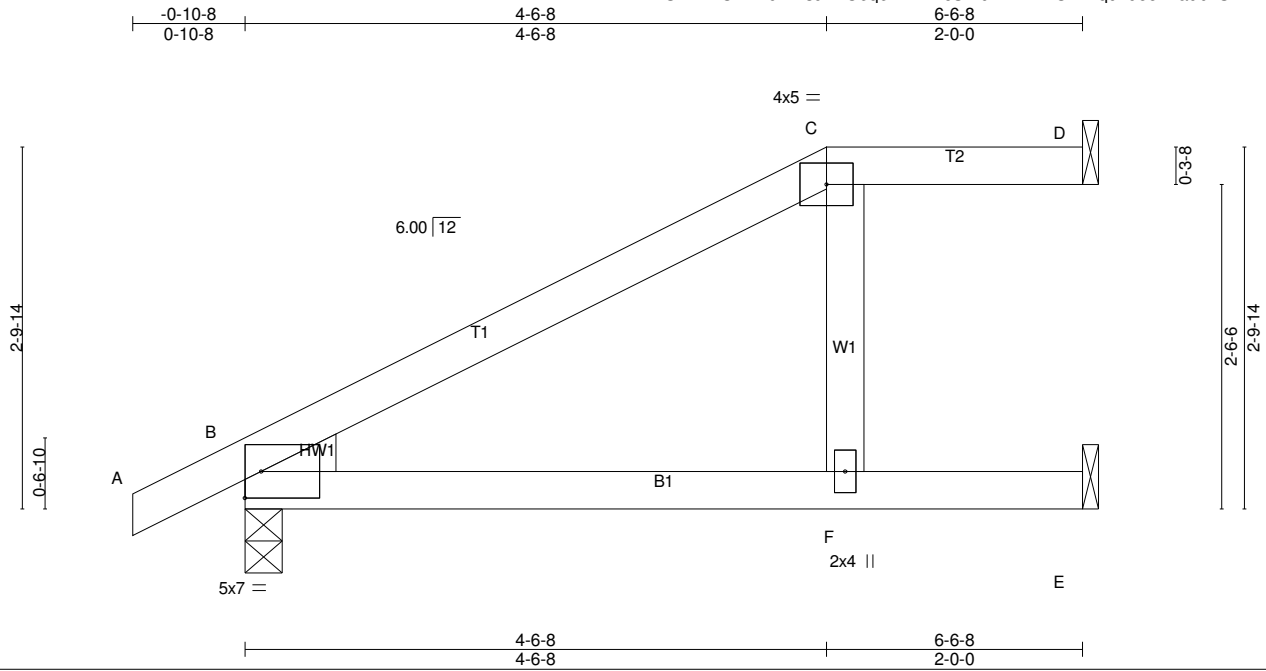
- NOTES-**
- 1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 3) This truss is not designed to support a ceiling and is not intended for use where aesthetics are a consideration.
 - 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) Refer to girder(s) for truss to truss connections.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 224 lb uplift at joint B, 54 lb uplift at joint E and 446 lb uplift at joint C.
 - 8) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 10) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	H&H-NC/ENGAGE
MASTER	J02	Jack-Open	3	1	Job Reference (optional)

Builders FirstSource, N.Charleston, SC

Run: 7.640 s Apr 22 2016 Print: 7.640 s Apr 22 2016 MiTek Industries, Inc. Fri Jan 12 08:28:53 2018 Page 1
ID:SzABPCMxEuPMsuHkO6q6LKzwPcS-10Vw2kLUZnnqnddeenTadbhSfzP28Cp_0lpuGzwA5e



Scale = 1:18.0

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 0.54	Vert(LL)	-0.11	F-I	>716	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.71	Vert(TL)	-0.30	F-I	>263		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.12	Horz(TL)	-0.16	D	n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix-S)	Wind(LL)	0.31	F-I	>255	Weight: 26 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied, except
2-0-0 oc purlins: C-D.
BOT CHORD Rigid ceiling directly applied.

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

REACTIONS. (lb/size) D=58/Mechanical, B=315/0-3-8 (min. 0-1-8), E=197/Mechanical
Max Horz B=252(LC 8)
Max Uplift D=-73(LC 6), B=-256(LC 8), E=-150(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS C-F=-194/410

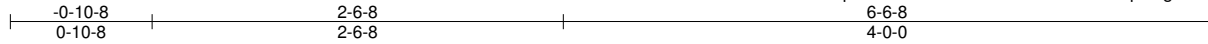
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 73 lb uplift at joint D, 256 lb uplift at joint B and 150 lb uplift at joint E.
 - This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	H&H-NC/ENGAGE
MASTER	J03	Jack-Open Girder	3	1	Job Reference (optional)

Builders FirstSource, N.Charleston, SC

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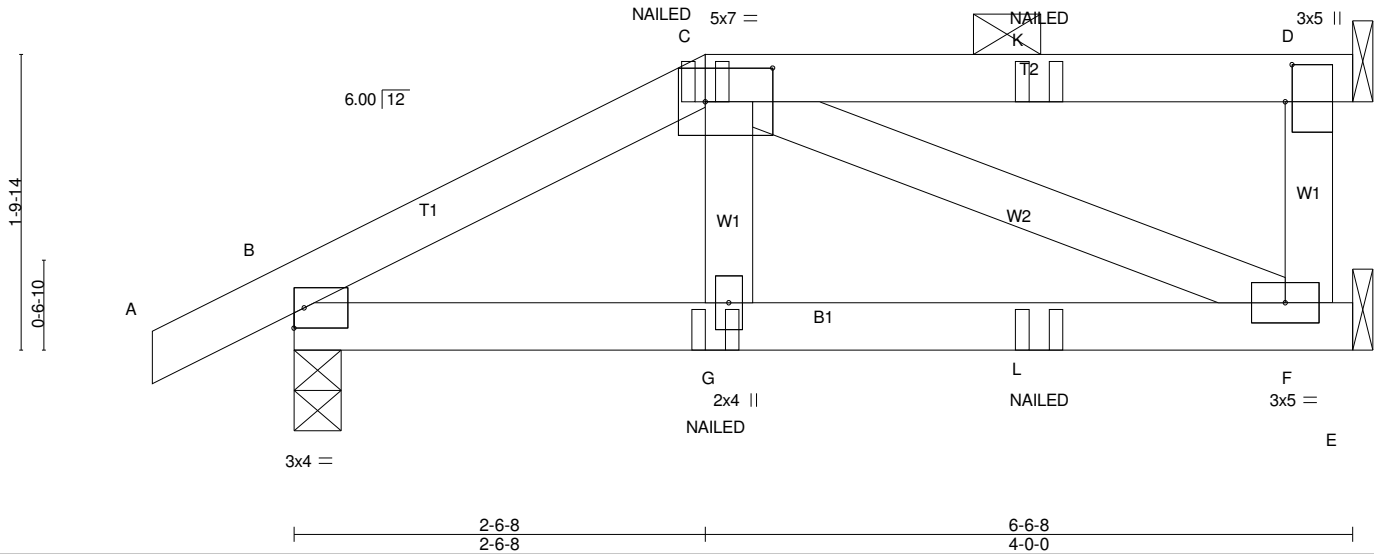


Plate Offsets (X,Y)-- [C:0-5-0,0-2-8], [D:0-2-12,0-0-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.31	Vert(LL) -0.01	F-G	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.18	Vert(TL) -0.02	F-G	>999	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.09	Horz(TL) 0.00	F	n/a	n/a		
BCDL 10.0	Rep Stress Incr NO	(Matrix-M)	Wind(LL) 0.01	G	>999	240		
	Code IRC2009/TPI2007						Weight: 30 lb	FT = 20%

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 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins: C-D.
 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) D=113/Mechanical, B=316/0-3-8 (min. 0-1-8), F=150/Mechanical
 Max Horz B=166(LC 6)
 Max Uplift D=-152(LC 4), B=-289(LC 6), F=-65(LC 7)
 Max Grav D=113(LC 1), B=316(LC 1), F=168(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-332/208
 BOT CHORD B-G=-212/258, G-L=-207/265, F-L=-207/265
 WEBS C-F=-287/224

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 130mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 152 lb uplift at joint D, 289 lb uplift at joint B and 65 lb uplift at joint F.
 - 9) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 10) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design 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) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
 - 13) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails. For more details refer to MiTek's ST-TOENAIL Detail.
 - 14) 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: A-C=-60, C-D=-60, E-H=-20

Job	Truss	Truss Type	Qty	Ply	H&H-NC/ENGAGE
MASTER	J03	Jack-Open Girder	3	1	Job Reference (optional)

Builders FirstSource, N.Charleston, SC

Run: 7.640 s Apr 22 2016 Print: 7.640 s Apr 22 2016 MiTek Industries, Inc. Fri Jan 12 08:28:55 2018 Page 2
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LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: C=-2(F) G=-6(F) K=-2(F) L=-6(F)

