Job	Truss	Truss Type	Qty	Ply	H&H-NC/Wayfare/
MASTER	A01	HALF HIP GIRDER	2	**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. Wed Jan 10 11:33:24 2018 Page 1
ID:5gbe_Q0JNoiH4zfeQirvLHzQqXF-0pSq4CH4uqxD?XZL?LbfVlmLGj4191SjTguJ_qzwnaf
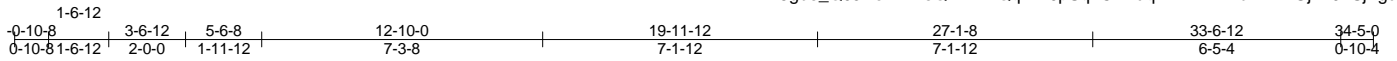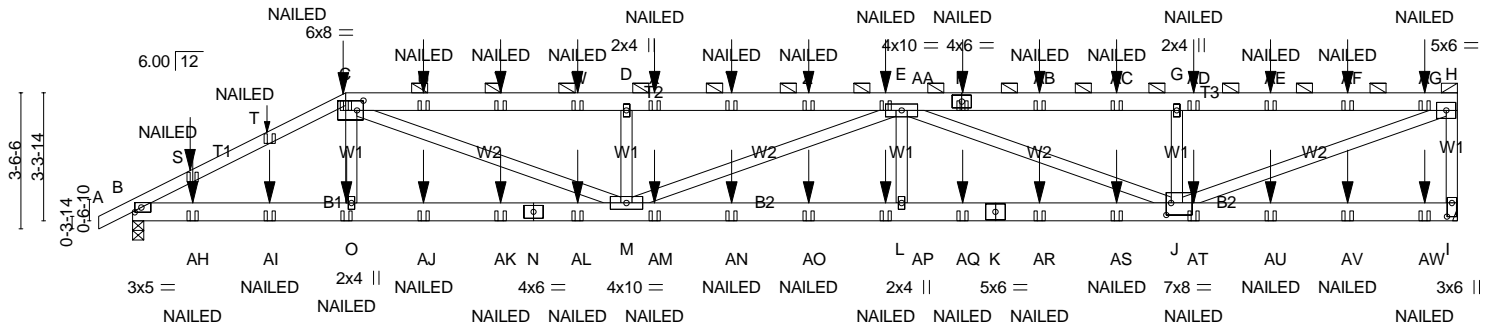
Scale = 1:59.8

Plate Offsets (X,Y)-- [B:0-2-1,0-1-8], [C:0-2-0,0-3-0], [I:0-4-4,0-1-8], [J:0-1-8,0-3-12]

LOADING (psf)		SPACING-		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.52	Vert(LL)	-0.24	L-M	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.79	Vert(TL)	-0.62	L-M	>668	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.70	Horz(TL)	0.10	I	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-M)		Wind(LL)	0.43	L-M	>946	240	Weight: 440 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2 *Except*
 T1: 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-7-12 oc purlins, except end verticals, and 2-0-0 oc purlins (5-2-3 max.): C-H.
BOT CHORD Rigid ceiling directly applied or 7-6-4 oc bracing.

REACTIONS. (lb/size) I=2571/Mechanical, B=2542/0-3-8 (min. 0-1-8)
 Max Horz B=206(LC 16)
 Max UpliftI=-1537(LC 5), B=-1411(LC 5)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-S=-4664/2645, S-T=-4563/2623, C-T=-4550/2629, C-U=-7265/4319, U-V=-7266/4320,
 V-W=-7268/4321, D-W=-7270/4321, D-X=-7266/4317, X-Y=-7266/4317, Y-Z=-7266/4317,
 Z-AA=-7266/4317, E-AA=-7266/4317, E-F=-5189/3113, F-AB=-5189/3113, AB-AC=-5189/3113,
 G-AC=-5189/3113, G-AD=-5189/3113, AD-AE=-5189/3113, AE-AF=-5189/3113,
 AF-AG=-5189/3113, H-AG=-5189/3113, H-I=-2427/1575
BOT CHORD B-AH=-2473/4082, AH-AI=-2473/4082, O-AI=-2473/4082, O-AJ=-2470/4095, AJ-AK=-2470/4095,
 N-AK=-2470/4095, N-AL=-2470/4095, M-AL=-2470/4095, M-AM=-4526/7509, AM-AN=-4526/7509,
 AN-AO=-4526/7509, AO-AP=-4526/7509, L-AP=-4526/7509, L-AQ=-4526/7509,
 K-AQ=-4526/7509, K-AR=-4526/7509, AR-AS=-4526/7509, J-AS=-4526/7509
WEBS C-O=0/406, C-M=-2129/3453, D-M=-944/883, E-M=-280/187, E-L=0/430, E-J=-2499/1495,
 G-J=-867/839, H-J=-3274/5479

NOTES-
1) 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, 2x6 - 2 rows staggered 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.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise); end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
6) Provide adequate drainage to prevent water ponding.
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) I=1537, B=1411.
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.

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Wayfare/
MASTER	A01	HALF HIP GIRDER	2	**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. Wed Jan 10 11:33:25 2018 Page 2
ID:5gbe_Q0JNoiH4zfeQirvLHzQqXF-U?0CHYlif734dh8YZ36u1zIW07QGuUishKesWGzwnae

NOTES-
12) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
14) "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.

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-H=-60, I-P=-20
   Concentrated Loads (lb)
       Vert: C=-106(F) F=-106(F) O=-30(F) S=-69(F) U=-106(F) V=-106(F) W=-106(F) X=-106(F) Y=-106(F) Z=-106(F) AA=-106(F) AB=-106(F) AC=-106(F) AD=-106(F)
       AE=-106(F) AF=-106(F) AG=-115(F) AH=-53(F) AI=-136(F) AJ=-30(F) AK=-30(F) AL=-30(F) AM=-30(F) AN=-30(F) AO=-30(F) AP=-30(F) AQ=-30(F) AR=-30(F)
       AS=-30(F) AT=-30(F) AU=-30(F) AV=-30(F) AW=-33(F)

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Wayfare/
MASTER	A02	HALF HIP	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. Wed Jan 10 11:33:25 2018 Page 1
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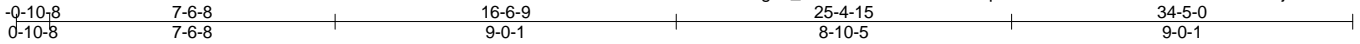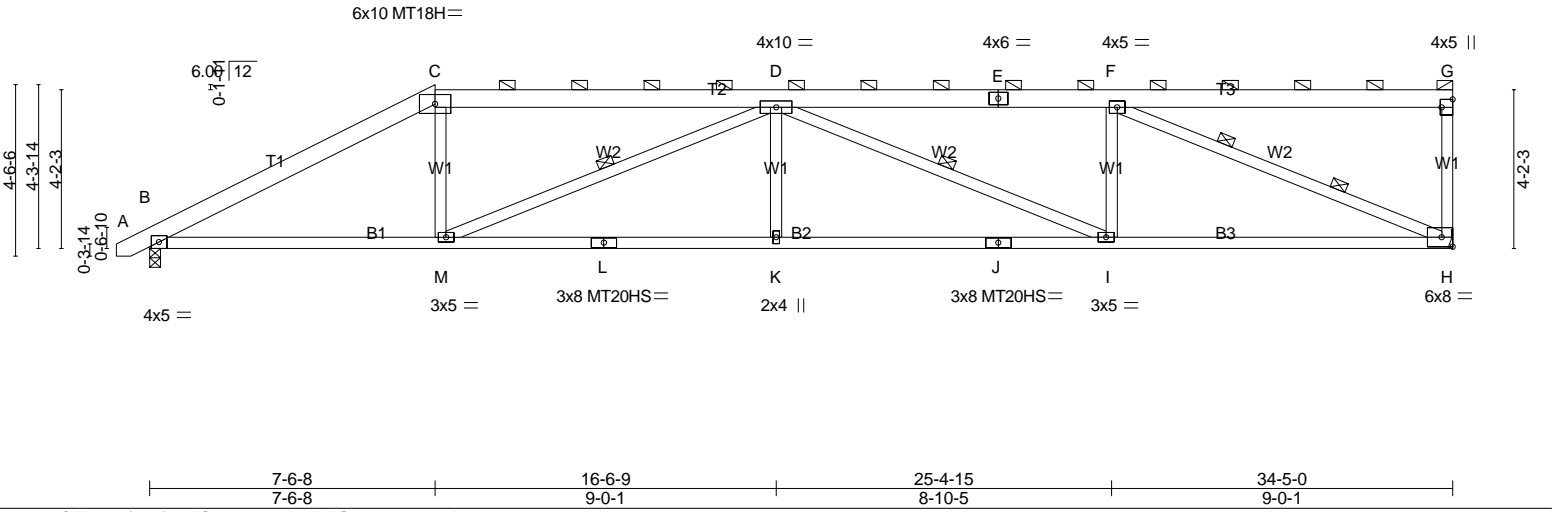
Scale = 1:60.8

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

LOADING (psf)		SPACING-		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.71	Vert(LL)	-0.21	I-K	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.96	Vert(TL)	-0.60	I-K	>687	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.86	Horz(TL)	0.18	H	n/a	n/a	MT18H	244/190
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-S)		Wind(LL)	0.34	I-K	>999	240	Weight: 198 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.1 *Except*
    B2: 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
    W2: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals, and
    2-0-0 oc purlins (4-3-8 max.): C-G.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt   D-M, D-I
    2 Rows at 1/3 pts   F-H

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

REACTIONS. (lb/size) H=1370/Mechanical, B=1413/0-3-8 (min. 0-1-11)
    Max Horz B=255(LC 8)
    Max UpliftH=-620(LC 7), B=-516(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-2517/2016, C-D=-2206/1976, D-E=-2503/2096, E-F=-2503/2096, G-H=-237/295
BOT CHORD B-M=-1965/2182, L-M=-2715/3196, K-L=-2715/3196, J-K=-2715/3196, I-J=-2715/3196,
    H-I=-2096/2503
WEBS C-M=-232/646, D-M=-1193/808, D-K=0/351, D-I=-755/673, F-I=-146/598, F-H=-2655/2241
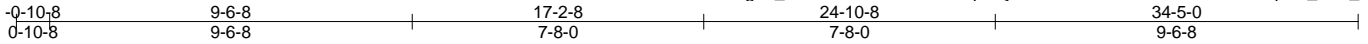
NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone;
    end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) 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=620,
    B=516.
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 ½" 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

Scale = 1:60.6

Plate Offsets (X,Y)-- [B:0-0-12,Edge], [F:0-0-12,Edge], [G:0-4-0,0-4-8], [H:0-4-0,0-4-8]

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)	-0.10	G-K	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.62	Vert(TL)	-0.32	G-H	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.51	Horz(TL)	0.09	F	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-S)		Wind(LL)	0.19	G-K	>999	240	Weight: 192 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2 *Except*
          T2: 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 (2-2-0 max.): C-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) F=1376/Mechanical, B=1419/0-3-8 (min. 0-1-11)
        Max Horz B=138(LC 8)
        Max Uplift F=-429(LC 6), B=-481(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-2297/1909, C-D=-2160/1973, D-E=-2164/1977, E-F=-2301/1913
BOT CHORD B-H=-1436/1956, G-H=-1872/2443, F-G=-1441/1961
WEBS C-H=-210/585, D-H=-467/466, D-G=-463/460, E-G=-210/585

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) 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) F=429,
   B=481.
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 ½" 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/Wayfare/
MASTER	A04	HIP	2	1	Job Reference (optional)

Builders FirstSource, N. Charleston, SC

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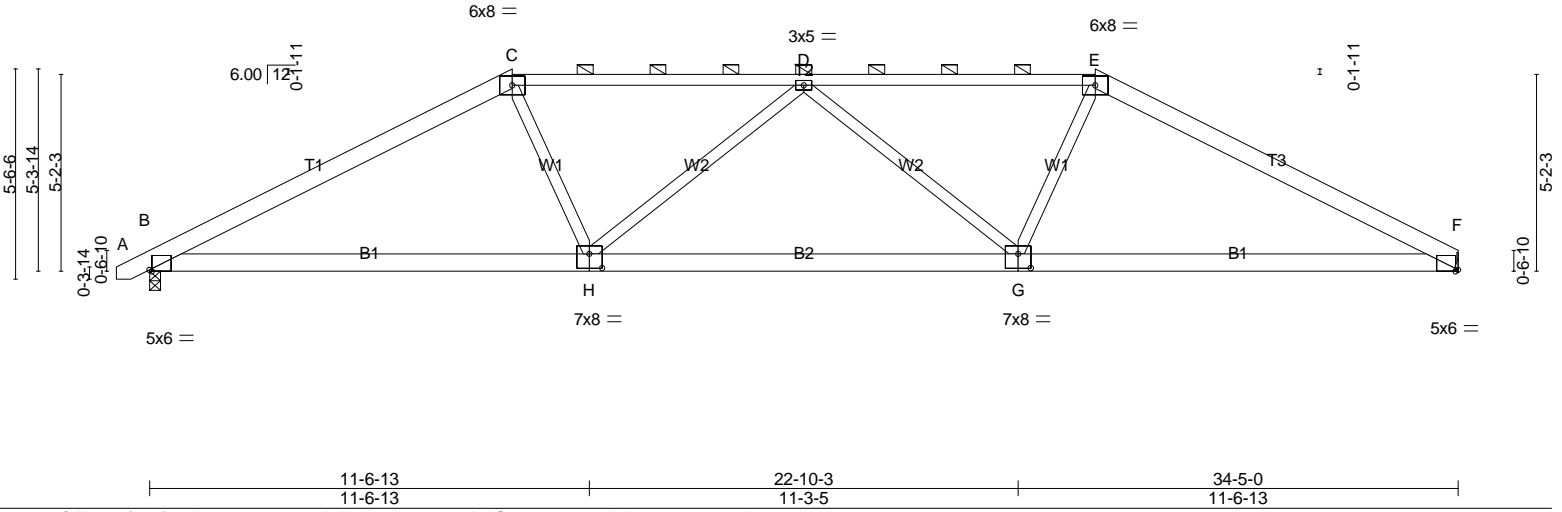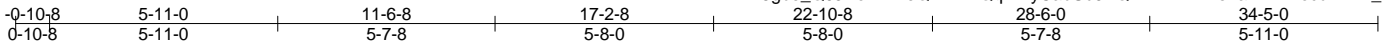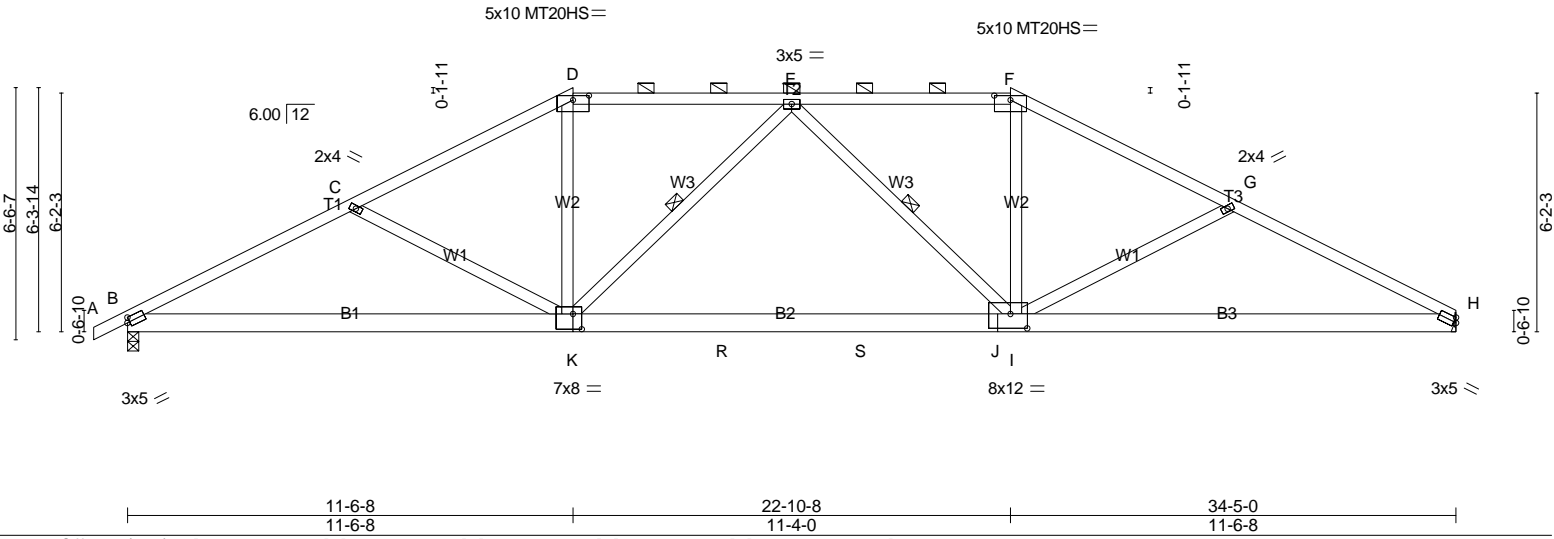ID:5gbe_Q0JNoiH4zfeQirvLHzQqXF-yCabUuJKQRBxErik7me7aArfDWocd1Z?w_NQ2jzwnad

-0-10-8   5-11-0   11-6-8   17-2-8   22-10-8   28-6-0   34-5-0
0-10-8   5-11-0   5-7-8   5-8-0   5-8-0   5-7-8   5-11-0

Scale = 1:59.7

11-6-8   22-10-8   34-5-0
11-6-8   11-4-0   11-6-8

Plate Offsets (X,Y)-- [B:0-0-12,0-1-8], [D:0-5-0,0-1-7], [F:0-5-0,0-1-7], [J:0-5-4,0-4-8], [K:0-2-12,0-4-12]

LOADING (psf)		SPACING-		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.69	Vert(LL)	-0.22	I-K	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.66	Vert(TL)	-0.45	I-K	>918	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.28	Horz(TL)	0.09	H	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-S)		Wind(LL)	0.20	I-K	>999	240	Weight: 195 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 (3-11-15 max.): D-F.
BOT CHORD   Rigid ceiling directly applied.
WEBS   1 Row at midpt   E-K, E-I

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

REACTIONS. (lb/size) H=1376/Mechanical, B=1430/0-3-8 (min. 0-1-11)
          Max Horz B=169(LC 8)
          Max UpliftH=-447(LC 9), B=-521(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   B-C=-2490/2250, C-D=-2140/1900, D-E=-1855/1822, E-F=-1849/1821, F-G=-2150/1910,
            G-H=-2496/2254
BOT CHORD   B-K=-1850/2167, K-R=-1511/2043, R-S=-1511/2043, J-S=-1511/2043, I-J=-1511/2043,
            H-I=-1855/2172
WEBS   C-K=-360/648, D-K=-395/607, E-K=-389/336, E-I=-397/332, F-I=-400/610, G-I=-359/647

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) 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, with BCDL = 10.0psf.
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=447,
   B=521.
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 ½" 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/Wayfare/
MASTER	A05	HIP	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. Wed Jan 10 11:33:27 2018 Page 1
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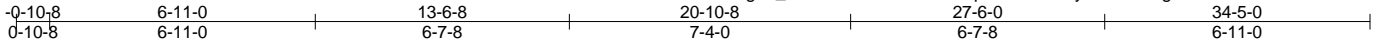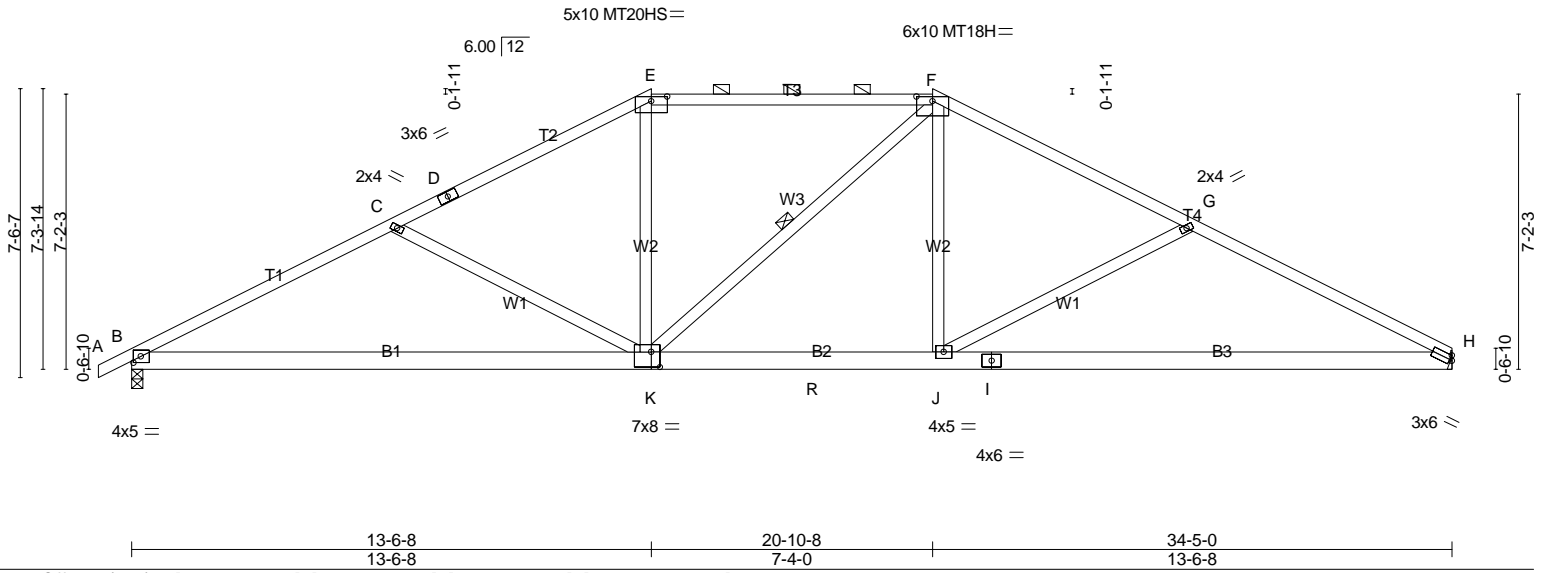
Scale = 1:60.1

Plate Offsets (X,Y)-- [B:0-2-5,0-2-0], [E:0-5-0,0-1-7], [F:0-5-0,0-1-7], [K:0-2-12,0-4-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.92	Vert(LL)	-0.24	K-Q	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.78	Vert(TL)	-0.66	K-Q	>629	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.48	Horz(TL)	0.07	H	n/a	n/a	MT18H	244/190
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-S)		Wind(LL)	0.17	J-K	>999	240	Weight: 194 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 (2-2-0 max.): E-F.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt F-K

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

REACTIONS. (lb/size) H=1376/Mechanical, B=1430/0-3-8 (min. 0-1-11)
Max Horz B=191(LC 8)
Max UpliftH=-472(LC 9), B=-546(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-2419/2249, C-D=-1991/1797, D-E=-1896/1827, E-F=-1705/1778, F-G=-1999/1838,
G-H=-2427/2255
BOT CHORD B-K=-1824/2097, K-R=-1140/1704, J-R=-1140/1704, I-J=-1831/2105, H-I=-1831/2105
WEBS C-K=-447/778, E-K=-241/510, F-J=-249/508, G-J=-448/777

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) 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, with BCDL = 10.0psf.
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=472,
B=546.
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 ½" 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.
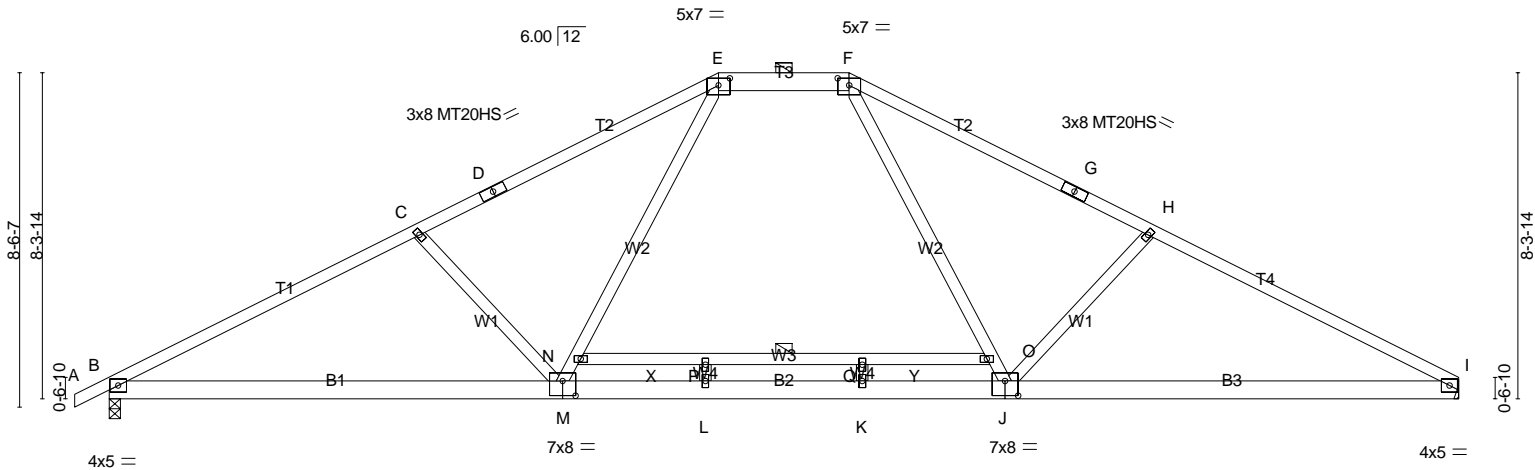
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Wayfare/
MASTER	A06	HIP	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. Wed Jan 10 11:33:27 2018 Page 1
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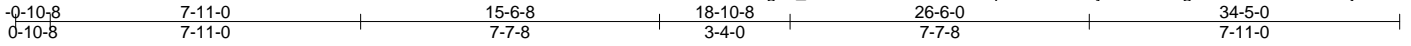
Scale = 1:58.8

Plate Offsets (X,Y)-- [E:0-3-8,0-2-3], [F:0-3-8,0-2-3], [G:0-0-0,0-0-0], [J:0-4-0,0-4-8], [M:0-4-0,0-4-8]

LOADING (psf)		SPACING-		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.91	Vert(LL)	-0.30	K-L	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.86	Vert(TL)	-0.49	K-L	>847	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.80	Horz(TL)	0.07	I	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-S)		Wind(LL)	0.26	M-T	>999	240	Weight: 199 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
  T3: 2x6 SP No.2, T1,T4: 2x4 SP No.1
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
  W3: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied, except
  2-0-0 oc purlins (5-10-1 max.): E-F.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt   N-O

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

REACTIONS. (lb/size) B=1430/0-3-8 (min. 0-1-11), I=1376/Mechanical
  Max Horz B=215(LC 8)
  Max UpliftB=-566(LC 8), I=-492(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-2425/2214, C-D=-2100/1992, D-E=-1989/2029, E-F=-1484/1727, F-G=-1991/2032,
  G-H=-2103/1995, H-I=-2428/2218
BOT CHORD B-M=-1775/2090, L-M=-1032/1544, K-L=-1032/1544, J-K=-1032/1544, I-J=-1780/2093
WEBS C-M=-519/814, M-N=-510/770, E-N=-529/829, F-O=-535/831, J-O=-516/771, H-J=-521/817

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) 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=566,
  I=492.
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 ½" gypsum
  sheetrock be applied directly to the bottom chord.
13) 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
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Wayfare/
MASTER	A06	HIP	2	1	
					Job Reference (optional)

LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: A-E=-60, E-F=-60, F-I=-60, R-U=-20

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Wayfare/
MASTER	A07	COMMON	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. Wed Jan 10 11:33:28 2018 Page 1
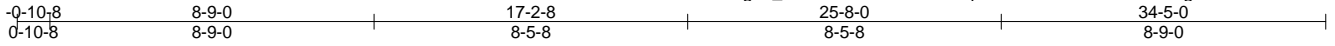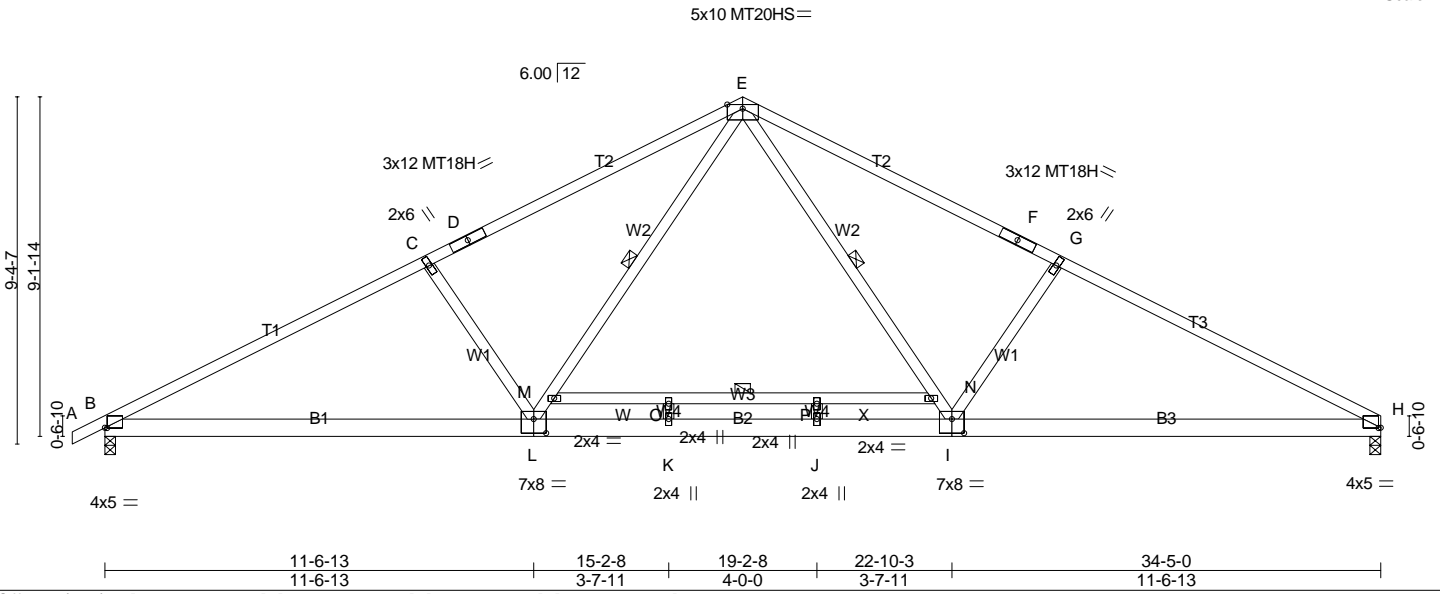ID:5gbe_Q0JNoiH4zfeQirvLHzQqXF-vahLvaKax2RfU8s6EBgbfbwwFKR35uTlOIsX7bzwnab

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Scale = 1:62.1

Plate Offsets (X,Y)-- [B:0-0-12,0-0-2], [H:0-0-12,0-0-2], [I:0-4-0,0-4-8], [L:0-4-0,0-4-8]

LOADING (psf)		SPACING-		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.97	Vert(LL)	-0.30	J-K	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.85	Vert(TL)	-0.49	J-K	>839	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.51	Horz(TL)	0.07	H	n/a	n/a	MT18H	244/190
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-S)		Wind(LL)	0.19	I-V	>999	240	Weight: 201 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
      T1,T3: 2x4 SP No.1
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
      W3: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt E-I, E-L, M-N

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

REACTIONS. (lb/size) B=1430/0-3-8 (min. 0-1-11), H=1376/0-3-8 (min. 0-1-10)
    Max Horz B=233(LC 8)
    Max Uplift B=-581(LC 8), H=-507(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-2395/2192, C-D=-2122/2101, D-E=-2000/2143, E-F=-2002/2146, F-G=-2124/2105, G-H=-2398/2195
BOT CHORD B-L=-1734/2053, K-L=-957/1459, J-K=-957/1459, I-J=-957/1459, H-I=-1738/2056
WEBS E-N=-738/911, I-N=-694/826, G-I=-508/869, L-M=-687/825, E-M=-732/910, C-L=-507/867

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) 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=581, H=507.
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 ½" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: A-E=-60, E-H=-60, Q-T=-20

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Wayfare/
MASTER	A08	COMMON	4	1	Job Reference (optional)

Builders FirstSource, N. Charleston, SC

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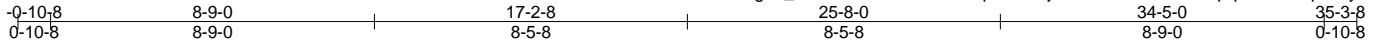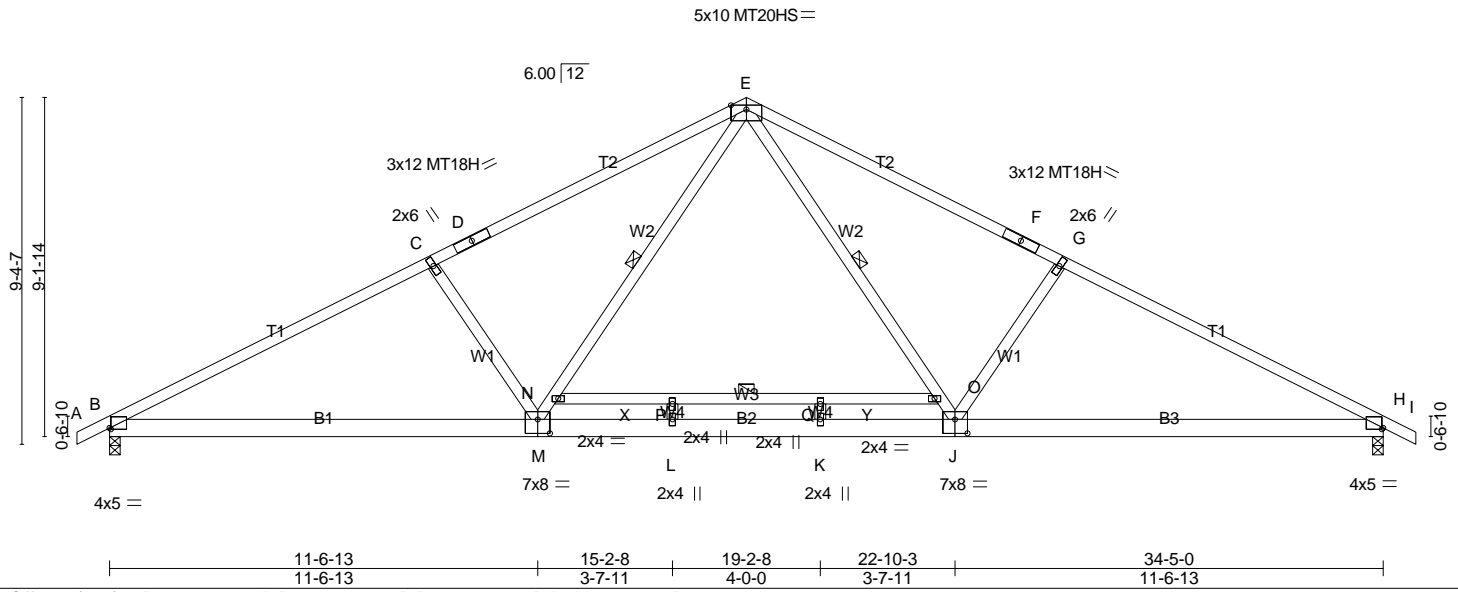
Scale = 1:62.2

Plate Offsets (X,Y)-- [B:0-0-8,0-0-6], [H:0-0-8,0-0-6], [J:0-4-0,0-4-8], [M:0-4-0,0-4-8]

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	0.97	Vert(LL)	-0.30	K-L	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC	0.85	Vert(TL)	-0.49	K-L	>837	240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	NO	WB	0.51	Horz(TL)	0.07	H	n/a	n/a	MT18H	244/190
BCDL 10.0	Code IRC2009/TPI2007		(Matrix-S)		Wind(LL)	0.18	J-W	>999	240	Weight: 203 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
 T1: 2x4 SP No.1
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
 W3: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt E-J, E-M, N-O

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

REACTIONS. (lb/size) B=1429/0-3-8 (min. 0-1-11), H=1429/0-3-8 (min. 0-1-11)
 Max Horz B=222(LC 8)
 Max UpliftB=-581(LC 8), H=-581(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-2394/2189, C-D=-2120/2098, D-E=-1998/2140, E-F=-1998/2140, F-G=-2120/2098,
 G-H=-2394/2189
BOT CHORD B-M=-1691/2052, L-M=-917/1458, K-L=-917/1458, J-K=-917/1458, H-J=-1695/2052
WEBS E-O=-733/910, J-O=-689/825, G-J=-507/867, M-N=-688/825, E-N=-733/910, C-M=-507/867

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) 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=581, H=581.
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 ½" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: A-E=-60, E-I=-60, R-U=-20

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Wayfare/
MASTER	A09	HIP	2	1	Job Reference (optional)

Builders FirstSource, N. Charleston, SC

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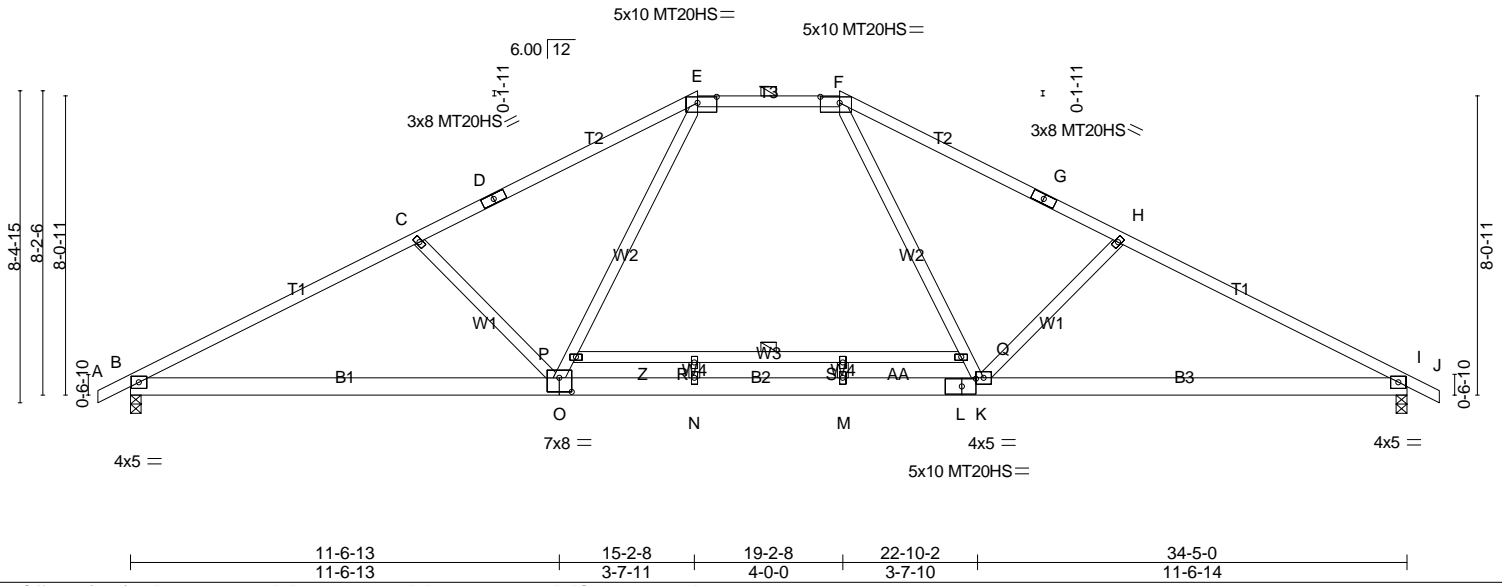0-10-8 7-9-8 7-6-0 3-10-0 7-6-0 7-9-8 0-10-8

Scale = 1:62.1

5x10 MT20HS=
5x10 MT20HS=
6.00 [12
3x8 MT20HS
3x8 MT20HS

11-6-13 15-2-8 19-2-8 22-10-2 34-5-0
11-6-13 3-7-11 4-0-0 3-7-10 11-6-14

Plate Offsets (X,Y)-- [E:0-6-4,0-2-0], [F:0-6-4,0-2-0], [L:0-4-10,0-2-8], [O:0-4-0,0-4-8]

LOADING (psf)		SPACING-		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.94	Vert(LL)	-0.33	O-V	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.86	Vert(TL)	-0.53	O-V	>784	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.70	Horz(TL)	0.07	I	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-S)		Wind(LL)	0.31	O-V	>999	240	Weight: 198 lb FT = 20%	

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
                T1: 2x4 SP No.1
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
                W3: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied, except
                2-0-0 oc purlins (4-5-0 max.): E-F.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt P-Q

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

REACTIONS. (lb/size) B=1429/0-3-8 (min. 0-1-11), I=1429/0-3-8 (min. 0-1-11)
                Max Horz B=199(LC 8)
                Max UpliftB=-564(LC 8), I=-564(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-2428/2215, C-D=-2100/1977, D-E=-1986/2011, E-F=-1514/1731, F-G=-1995/2022,
                G-H=-2109/1988, H-I=-2430/2214
BOT CHORD B-O=-1739/2093, N-O=-982/1530, M-N=-982/1530, L-M=-982/1530, K-L=-982/1530,
                I-K=-1742/2095
WEBS C-O=-507/803, O-P=-491/771, E-P=-497/810, F-Q=-507/809, K-Q=-501/767, H-K=-503/800

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) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=564,
    I=564.
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 ½" 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
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

LOAD CASE(S) Standard
  Uniform Loads (plf)
      Vert: A-E=-60, E-F=-60, F-J=-60, T-W=-20

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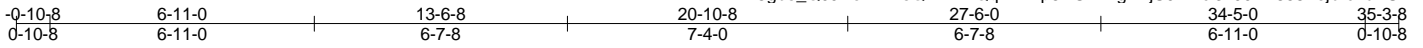-0-10-8　6-11-0　13-6-8　20-10-8　27-6-0　34-5-0　35-3-8
0-10-8　6-11-0　6-7-8　7-4-0　6-7-8　6-11-0　0-10-8

Scale = 1:60.3

8x14 MT18H ||
8x14 MT18H ||
6.00 |12
3x6
3x6
4x5
7x8
4x5
5x10 MT20HS
4x5

11-6-13　15-2-8　19-2-8　22-10-2　34-5-0
11-6-13　3-7-11　4-0-0　3-7-10　11-6-14

Plate Offsets (X,Y)-- [E:0-2-4,Edge], [F:0-2-4,Edge], [L:0-4-7,0-2-8], [O:0-4-0,0-4-8]
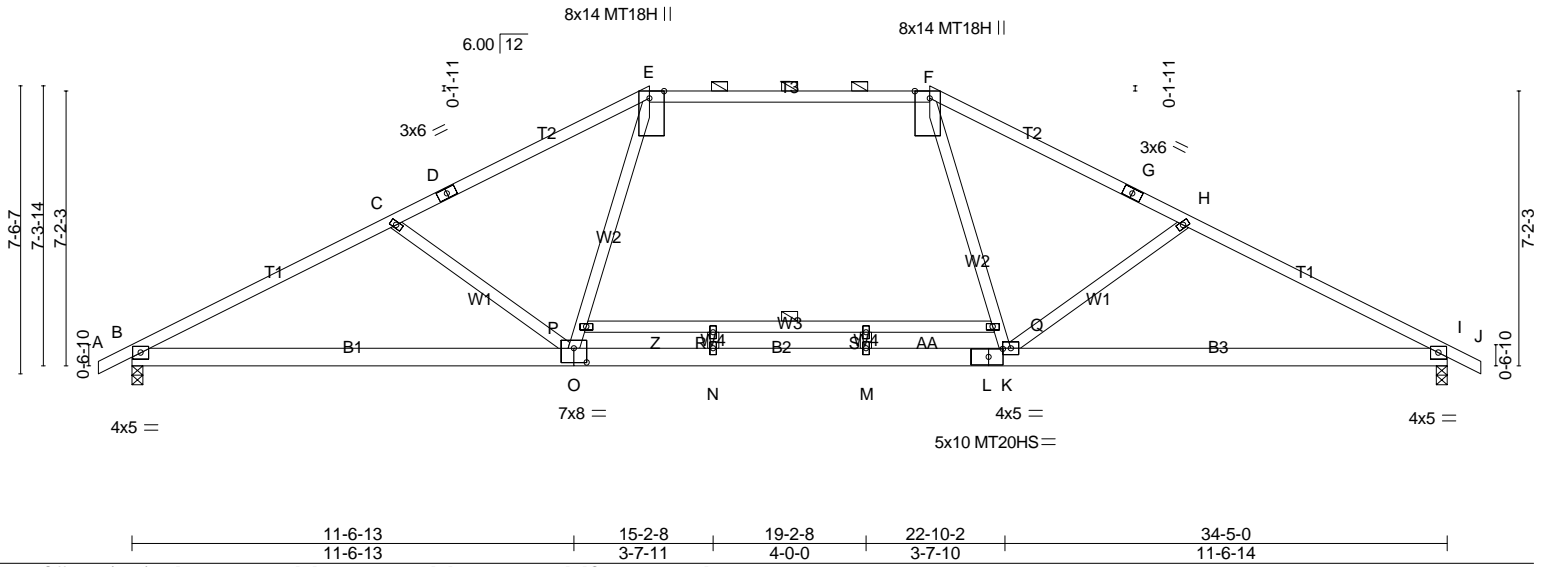
LOADING (psf)		SPACING-		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.90	Vert(LL)	-0.52	O-V	>790	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.94	Vert(TL)	-0.71	O-V	>580	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.46	Horz(TL)	0.08	I	n/a	n/a	MT18H	244/190
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-S)		Wind(LL)	0.45	O-V	>913	240	Weight: 194 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
　T3: 2x4 SP No.1
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
　W3: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied, except
　2-0-0 oc purlins (3-7-7 max.): E-F.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt　P-Q

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

REACTIONS. (lb/size) B=1429/0-3-8 (min. 0-1-11), I=1429/0-3-8 (min. 0-1-11)
　Max Horz B=179(LC 8)
　Max UpliftB=-546(LC 8), I=-546(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-2449/2224, C-D=-2105/1905, D-E=-2018/1935, E-F=-1676/1791, F-G=-2023/1939,
　G-H=-2110/1909, H-I=-2450/2223
BOT CHORD B-O=-1764/2118, N-O=-1107/1669, M-N=-1107/1669, L-M=-1107/1669, K-L=-1107/1669,
　I-K=-1767/2120
WEBS C-O=-455/714, O-P=-302/701, E-P=-301/728, F-Q=-305/729, K-Q=-307/702, H-K=-452/712

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) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=546,
　I=546.
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 ½" 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
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Wayfare/
MASTER	A10	HIP	2	1	
					Job Reference (optional)

LOAD CASE(S) Standard
    Uniform Loads (plf)
        Vert: A-E=-60, E-F=-60, F-J=-60, T-W=-20

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Wayfare/
MASTER	A11	HIP	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. Wed Jan 10 11:33:31 2018 Page 1
ID:5gbe_Q0JNoiH4zfeQirvLHzQqXF-J9NUYbMTEzpELcbhvJDIHEYSbXR_IEZl4G5BkwzwnaY
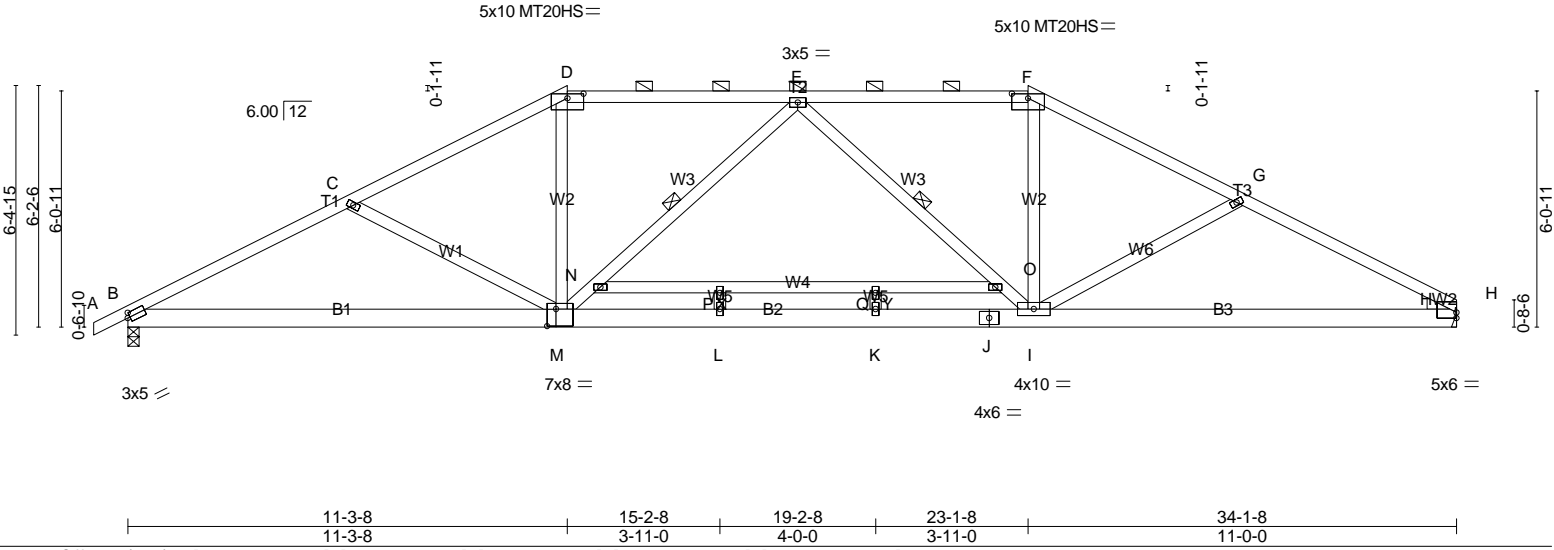
Scale = 1:59.2

Plate Offsets (X,Y)-- [B:0-0-12,0-1-8], [D:0-5-0,0-1-7], [F:0-5-0,0-1-7], [H:0-0-0,0-1-12], [M:0-2-12,0-5-4]

LOADING (psf)		SPACING-		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.90	Vert(LL)	-0.32	K-L	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.90	Vert(TL)	-0.60	K-L	>678	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.49	Horz(TL)	0.09	H	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-S)		Wind(LL)	0.22	K-L	>999	240	Weight: 211 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS   2x4 SP No.3 *Except*
           W4: 2x4 SP No.2
WEDGE
Right: 2x4 SP No.3

BRACING-
TOP CHORD   Structural wood sheathing directly applied, except
            2-0-0 oc purlins (3-11-7 max.): D-F.
BOT CHORD   Rigid ceiling directly applied.
WEBS   1 Row at midpt   E-M, E-I

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

REACTIONS. (lb/size) H=1364/Mechanical, B=1418/0-3-8 (min. 0-1-11)
Max Horz B=171(LC 8)
Max UpliftH=-437(LC 9), B=-516(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-2479/2226, C-D=-2152/1903, D-E=-1839/1803, E-F=-1812/1776, F-G=-2099/1862,
           G-H=-2402/2157
BOT CHORD B-M=-1845/2156, L-M=-1515/2023, K-L=-1515/2023, J-K=-1515/2023, I-J=-1515/2023,
           H-I=-1768/2073
WEBS   C-M=-337/619, D-M=-394/709, M-N=-395/328, E-N=-402/353, E-O=-434/392, I-O=-422/372,
           F-I=-377/685, G-I=-295/577

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) 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) 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) H=437,
    B=516.
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 ½" gypsum
    sheetrock be applied directly to the bottom chord.
13) 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/Wayfare/
MASTER	A11	HIP	2	1	
					Job Reference (optional)

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: A-D=-60, D-F=-60, F-H=-60, R-U=-20

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Wayfare/
MASTER	A12	HIP	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. Wed Jan 10 11:33:31 2018 Page 1
ID:5gbe_Q0JNoiH4zfeQirvLHzQqXF-J9NUYbMTEzpELcbhvJDIHEYTqXWVIEGl4G5BkwzwnaY
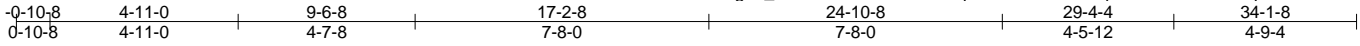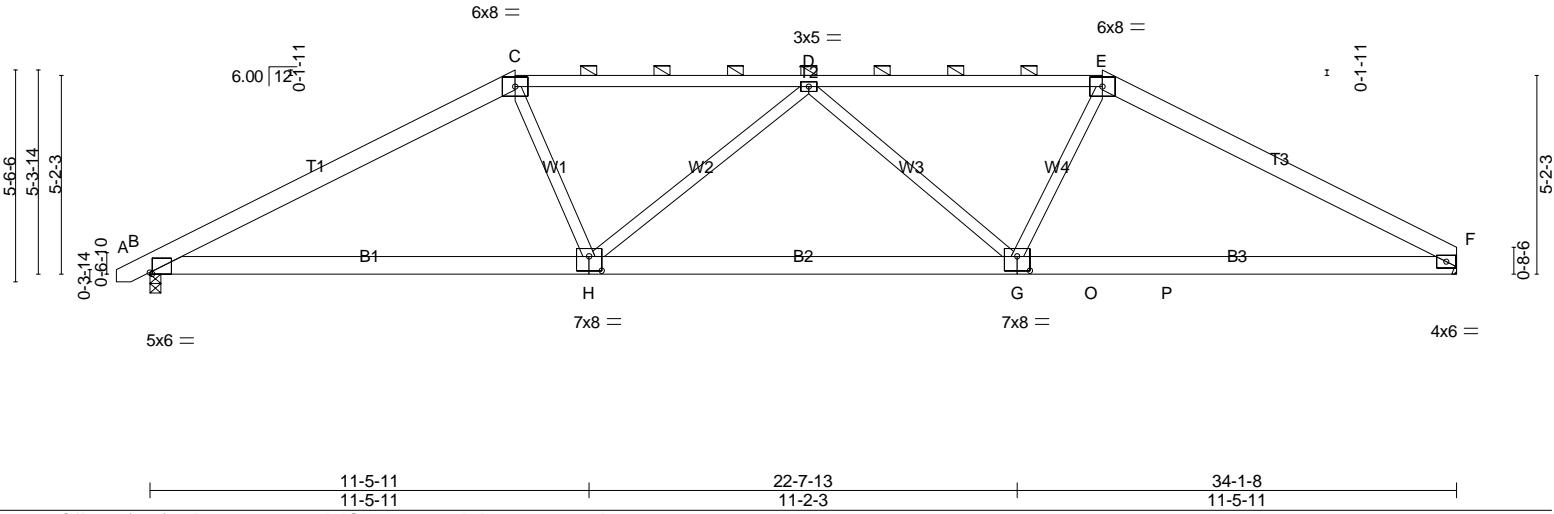
Scale = 1:60.2

Plate Offsets (X,Y)-- [B:0-0-12,Edge], [G:0-4-0,0-4-8], [H:0-4-0,0-4-8]

LOADING (psf)		SPACING-		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.89	Vert(LL)	-0.10	G-K	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.61	Vert(TL)	-0.31	G-K	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.50	Horz(TL)	0.08	F	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-S)		Wind(LL)	0.18	H-N	>999	240	Weight: 190 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2 *Except*
　　　　　　T2: 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 (2-2-0 max.): C-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.
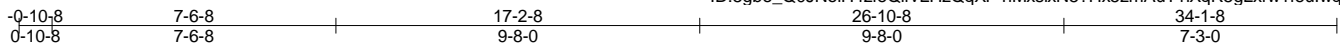
REACTIONS. (lb/size) F=1355/Mechanical, B=1416/0-3-8 (min. 0-1-11)
　　　　　Max Horz B=144(LC 8)
　　　　　Max UpliftF=-425(LC 6), B=-481(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-2292/1908, C-D=-2145/1968, D-E=-2161/1983, E-F=-2280/1911
BOT CHORD B-H=-1450/1952, G-H=-1884/2433, G-O=-1452/1940, O-P=-1452/1940, F-P=-1452/1940
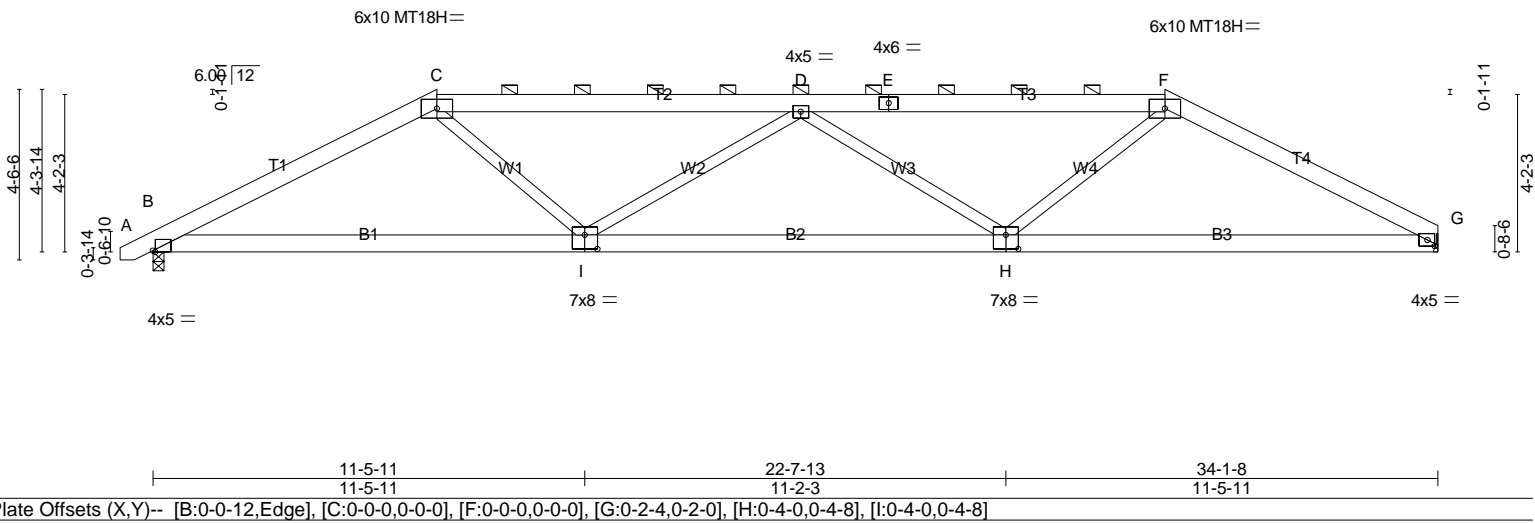WEBS C-H=-208/581, D-H=-471/466, D-G=-459/456, E-G=-214/588

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, with BCDL = 10.0psf.
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) F=425,
　　B=481.
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 ½" 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/Wayfare/
MASTER	A13	HIP	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. Wed Jan 10 11:33:32 2018 Page 1
ID:5gbe_Q0JNoiH4zfeQirvLHzQqXF-nMxslxN5?Hx5zmAuT1lXqR5gLxrw1feuIwqkGMzwnaX

| | -0-10-8 | 7-6-8 | 17-2-8 | 26-10-8 | 34-1-8 |
| | 0-10-8 | 7-6-8 | 9-8-0 | 9-8-0 | 7-3-0 |

Scale = 1:61.2

6.00 ⎡12

| | 11-5-11 | 22-7-13 | 34-1-8 |
| | 11-5-11 | 11-2-3 | 11-5-11 |

Plate Offsets (X,Y)-- [B:0-0-12,Edge], [C:0-0-0,0-0-0], [F:0-0-0,0-0-0], [G:0-2-4,0-2-0], [H:0-4-0,0-4-8], [I:0-4-0,0-4-8]

LOADING (psf)		SPACING-		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.71	Vert(LL)	-0.14	H-I	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.66	Vert(TL)	-0.40	H-I	>999	240	MT18H	244/190
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.62	Horz(TL)	0.10	G	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-S)		Wind(LL)	0.20	H-I	>999	240	Weight: 201 lb	FT = 20%

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

BRACING-
TOP CHORD   Structural wood sheathing directly applied, except
             2-0-0 oc purlins (3-10-4 max.): C-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) G=1358/Mechanical, B=1413/0-3-8 (min. 0-1-11)
Max Horz B=121(LC 8)
Max Uplift G=-474(LC 6), B=-487(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   B-C=-2432/2082, C-D=-2697/2311, D-E=-2713/2318, E-F=-2713/2320, F-G=-2409/2069
BOT CHORD   B-I=-1678/2117, H-I=-2597/3199, G-H=-1661/2092
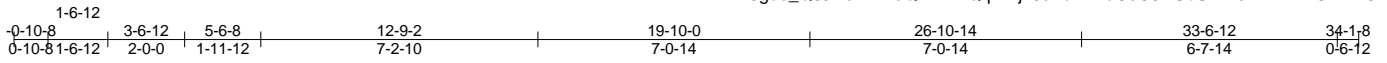WEBS   C-I=-406/842, D-I=-674/747, D-H=-661/746, F-H=-429/875

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) 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) G=474,
   B=487.
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 ½" 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.
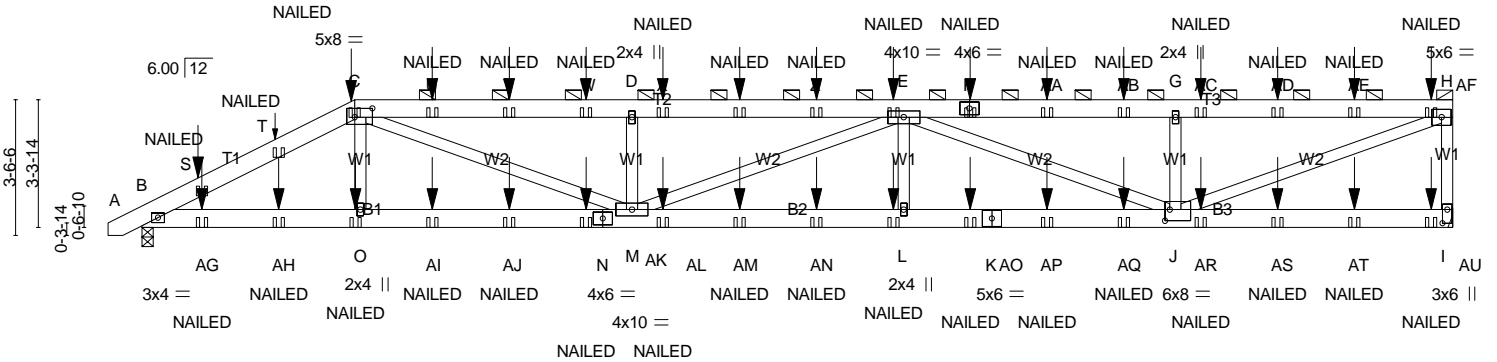
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Wayfare/
MASTER	A14	HALF HIP GIRDER	2	**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. Wed Jan 10 11:33:34 2018 Page 1
ID:5gbe_Q0JNoiH4zfeQirvLHzQqXF-jk3cAdPLXuCoC3KGbSn?vsA4ilVfVYOBmEJrKFzwnaV

Scale = 1:60.0

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

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	0.46	Vert(LL)	-0.23	L-M	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.78	Vert(TL)	-0.58	L-M	>706	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.67	Horz(TL)	0.10	I	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-M)		Wind(LL)	0.41	L-M	>999	240	Weight: 449 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 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 (5-4-6 max.): C-H.
BOT CHORD Rigid ceiling directly applied or 7-8-0 oc bracing.

REACTIONS. (lb/size) I=2572/Mechanical, B=2517/0-3-8 (min. 0-1-8)
Max Horz B=202(LC 6)
Max UpliftI=-1537(LC 5), B=-1403(LC 5)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-S=-4643/2647, S-T=-4558/2622, C-T=-4497/2630, C-U=-7063/4209, U-V=-7063/4209,
V-W=-7063/4209, D-W=-7063/4209, D-X=-7063/4209, X-Y=-7063/4209, Y-Z=-7063/4209,
E-Z=-7063/4209, E-F=-5071/3022, F-AA=-5071/3022, AA-AB=-5071/3022, G-AB=-5071/3022,
G-AC=-5071/3022, AC-AD=-5071/3022, AD-AE=-5071/3022, AE-AF=-5071/3022,
H-AF=-5071/3022, H-I=-2422/1580
BOT CHORD B-AG=-2403/4067, AG-AH=-2403/4067, O-AH=-2403/4067, O-AI=-2400/4081, AI-AJ=-2400/4081,
AJ-AK=-2400/4081, N-AK=-2400/4081, M-N=-2400/4081, M-AL=-4367/7328, AL-AM=-4367/7328,
AM-AN=-4367/7328, L-AN=-4367/7328, L-AO=-4367/7328, K-AO=-4367/7328, K-AP=-4367/7328,
AP-AQ=-4367/7328, J-AQ=-4367/7328
WEBS C-O=0/419, C-M=-1978/3208, D-M=-848/818, E-M=-286/189, E-L=0/427, E-J=-2436/1451,
G-J=-859/830, H-J=-3196/5363

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
   Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 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.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise); end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
4) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
5) Provide adequate drainage to prevent water ponding.
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) I=1537, B=1403.
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.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Wayfare/
MASTER	A14	HALF HIP GIRDER	2	**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. Wed Jan 10 11:33:34 2018 Page 2
ID:5gbe_Q0JNoiH4zfeQirvLHzQqXF-jk3cAdPLXuCoC3KGbSn?vsA4ilVfVYOBmEJrKFzwnaV

NOTES-
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.

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-H=-60, I-P=-20
   Concentrated Loads (lb)
        Vert: C=-106(B) F=-106(B) O=-30(B) L=-30(B) E=-106(B) S=-69(B) U=-106(B) V=-106(B) W=-106(B) X=-106(B) Y=-106(B) Z=-106(B) AA=-106(B) AB=-106(B)
        AC=-106(B) AD=-106(B) AE=-106(B) AF=-124(B) AG=-53(B) AH=-136(B) AI=-30(B) AJ=-30(B) AK=-30(B) AL=-30(B) AM=-30(B) AN=-30(B) AO=-30(B) AP=-30(B)
        AQ=-30(B) AR=-30(B) AS=-30(B) AT=-30(B) AU=-36(B)

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Wayfare/
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. Wed Jan 10 11:33:35 2018 Page 1
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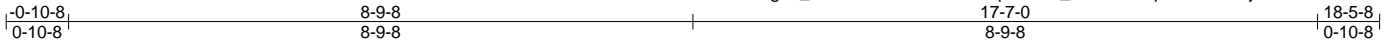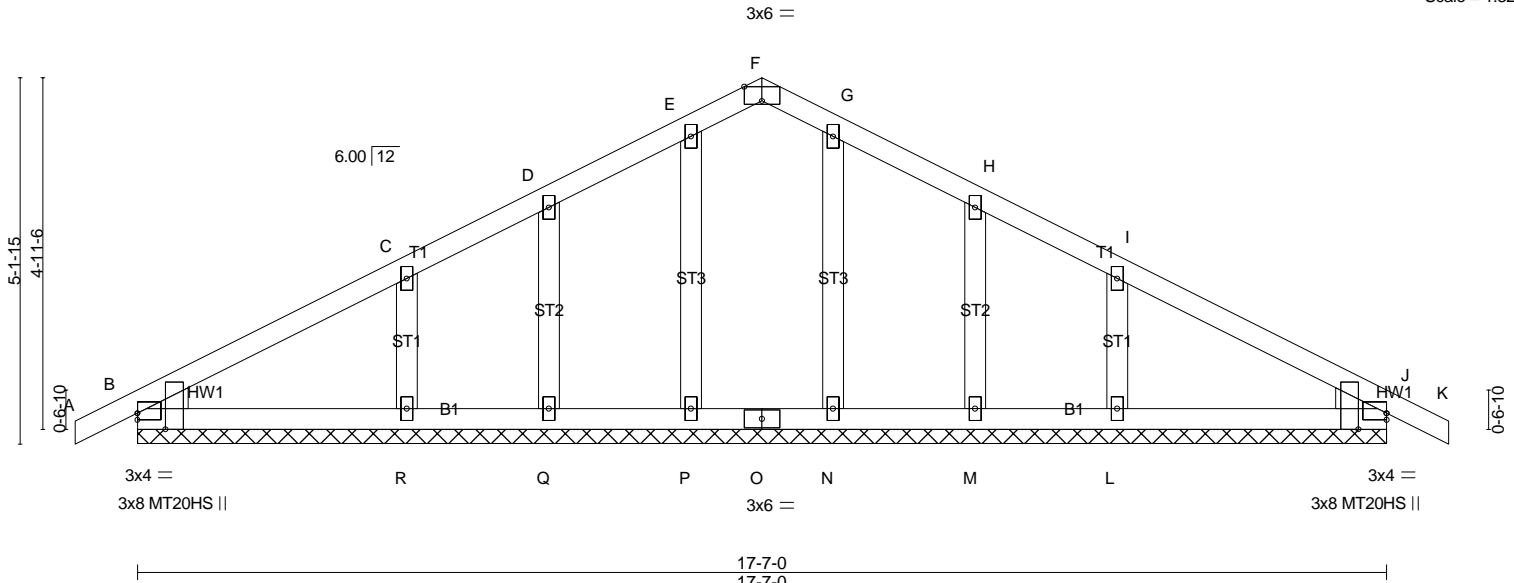
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Plate Offsets (X,Y)-- [B:0-2-11,Edge], [B:0-0-0,0-1-2], [F:0-3-0,Edge], [J:0-0-0,0-1-2], [J:0-2-11,Edge]

LOADING (psf)		SPACING-		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	0.00	K	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(TL)	0.01	K	n/r	120	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.11	Horz(TL)	0.00	J	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix)							Weight: 86 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 17-7-0.
       (lb) - Max Horz B=117(LC 8)
              Max Uplift All uplift 100 lb or less at joint(s) B, P, Q, N, M, J except R=-193(LC 8), L=-190(LC 9)
              Max Grav All reactions 250 lb or less at joint(s) B, P, Q, N, M, J except R=295(LC 13), L=295(LC 14)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
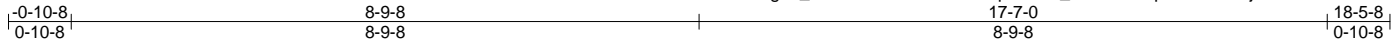WEBS   C-R=-210/383, I-L=-210/384

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) 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) 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) Gable requires continuous bottom chord bearing.
8) Gable studs spaced at 2-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will
    fit between the bottom chord and any other members.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) B, P, Q, N, M, J
    except (jt=lb) R=193, L=190.
12) 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.
13) "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/Wayfare/
MASTER	B02	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. Wed Jan 10 11:33:35 2018 Page 1
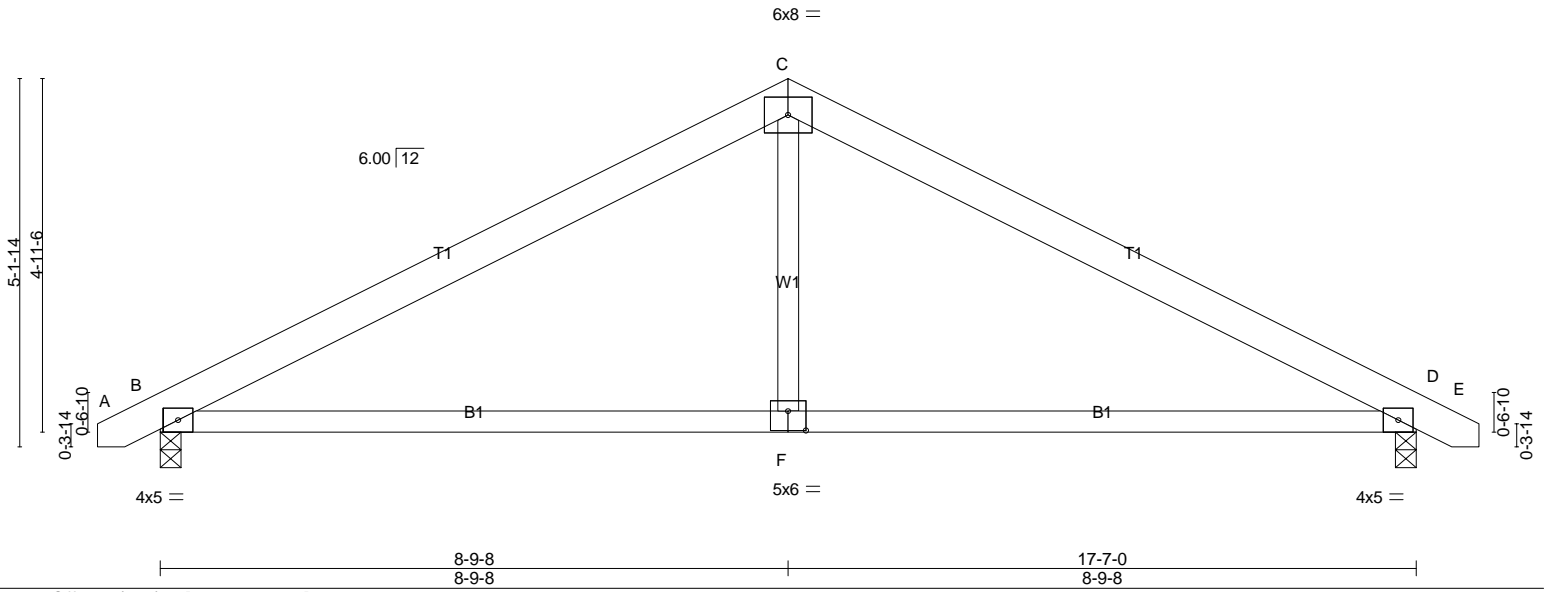ID:5gbe_Q0JNoiH4zfeQirvLHzQqXF-Cxc_NzQzlCKfqDvT89IER4jF19tvE70K?u3OthzwnaU

-0-10-8 | 8-9-8 | 17-7-0 | 18-5-8
0-10-8 | 8-9-8 | 8-9-8 | 0-10-8

Scale: 3/8"=1'

6x8 ═

6.00 ⌐12

5-1-14
4-11-6

T1

W1

T1

B

0-3-14
0-6-1-0

A

B1

D

E

0-6-10
0-3-14

F

B1

4x5 ═

5x6 ═

4x5 ═

| 8-9-8 | 17-7-0 |
| 8-9-8 | 8-9-8 |

Plate Offsets (X,Y)-- [F: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	0.49	Vert(LL)	-0.08	F-L	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.65	Vert(TL)	-0.22	F-L	>952	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.14	Horz(TL)	0.02	D	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-S)		Wind(LL)	0.10	F-I	>999	240	Weight: 83 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.

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

REACTIONS. (lb/size)   B=744/0-3-8 (min. 0-1-8), D=744/0-3-8 (min. 0-1-8)
Max Horz B=122(LC 8)
Max UpliftB=-317(LC 8), D=-317(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   B-C=-954/849, C-D=-954/849
BOT CHORD   B-F=-512/792, D-F=-512/792
WEBS   C-F=0/359

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) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=317,
   D=317.
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 ½" gypsum
   sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

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Run: 7.640 s Apr 22 2016 Print: 7.640 s Apr 22 2016 MiTek Industries, Inc. Wed Jan 10 11:33:36 2018 Page 1
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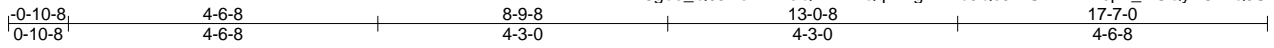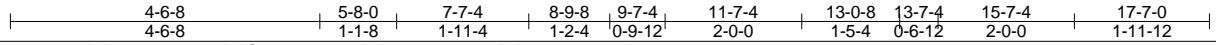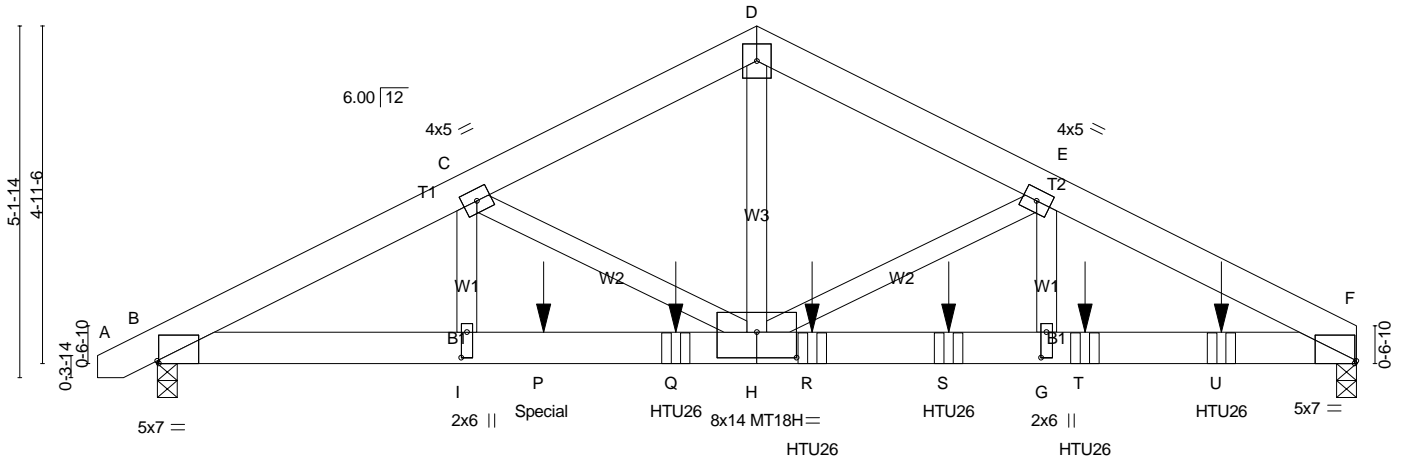

5x6 ||

Scale = 1:33.8

Plate Offsets (X,Y)-- [B:0-0-4,Edge], [F:0-0-4,Edge], [G:0-4-8,0-1-0], [H:0-7-0,0-4-8], [I:0-4-8,0-1-0]

LOADING (psf)		SPACING-		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.41	Vert(LL)	-0.11	H-I	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.74	Vert(TL)	-0.27	H-I	>788	240	MT18H	244/190
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.77	Horz(TL)	0.07	F	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-M)		Wind(LL)	0.17	H-I	>999	240	Weight: 230 lb	FT = 20%

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

BRACING-
TOP CHORD   Structural wood sheathing directly applied or 4-5-11 oc purlins.
BOT CHORD   Rigid ceiling directly applied or 8-10-3 oc bracing.

REACTIONS. (lb/size) F=6001/0-3-8 (req. 0-3-9), B=4771/0-3-8 (min. 0-2-13)
Max Horz B=130(LC 17)
Max Uplift F=-2399(LC 7), B=-2248(LC 6)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   B-C=-9788/4605, C-D=-7603/3321, D-E=-7612/3332, E-F=-10517/4222
BOT CHORD   B-I=-4082/8615, I-P=-4082/8615, P-Q=-4082/8615, H-Q=-4082/8615, H-R=-3693/9370, R-S=-3693/9370, G-S=-3693/9370,
G-T=-3693/9370, T-U=-3693/9370, F-U=-3693/9370
WEBS   D-H=-2713/6302, E-H=-2943/1060, E-G=-743/2564, C-H=-2082/1395, C-I=-1207/2051

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
   Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
   Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-4-0 oc.
   Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise); end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
6) All plates are MT20 plates unless otherwise indicated.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) WARNING: Required bearing size at joint(s) F greater than input bearing size.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) F=2399, B=2248.
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.
13) Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 7-7-4 from the left end to 15-7-4 to connect truss(es) A02 (1 ply 2x4 SP), A03 (1 ply 2x6 SP), A04 (1 ply 2x6 SP), A05 (1 ply 2x6 SP), A06 (1 ply 2x6 SP) to back face of bottom chord.
14) Fill all nail holes where hanger is in contact with lumber.
15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2551 lb down and 1549 lb up at 5-8-0 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/Wayfare/
MASTER	B03	COMMON GIRDER	1	**2**	Job Reference (optional)

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
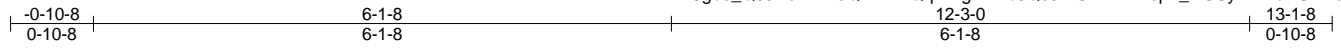   Uniform Loads (plf)
      Vert: A-D=-60, D-F=-60, J-M=-20
   Concentrated Loads (lb)
      Vert: P=-2551(B) Q=-1350(B) R=-1356(B) S=-1356(B) T=-1356(B) U=-1356(B)

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Wayfare/
MASTER	C01	COMMON SUPPORTED GAB	2	1	Job Reference (optional)

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Run: 7.640 s Apr 22 2016 Print: 7.640 s Apr 22 2016 MiTek Industries, Inc. Wed Jan 10 11:33:36 2018 Page 1
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-0-10-8	6-1-8	12-3-0	13-1-8
0-10-8	6-1-8	6-1-8	0-10-8

4x5 =

Scale = 1:24.4

3x4 =
3x8 MT20HS ||

2x4 || 2x4 || 2x4 ||

3x4 =
3x8 MT20HS ||
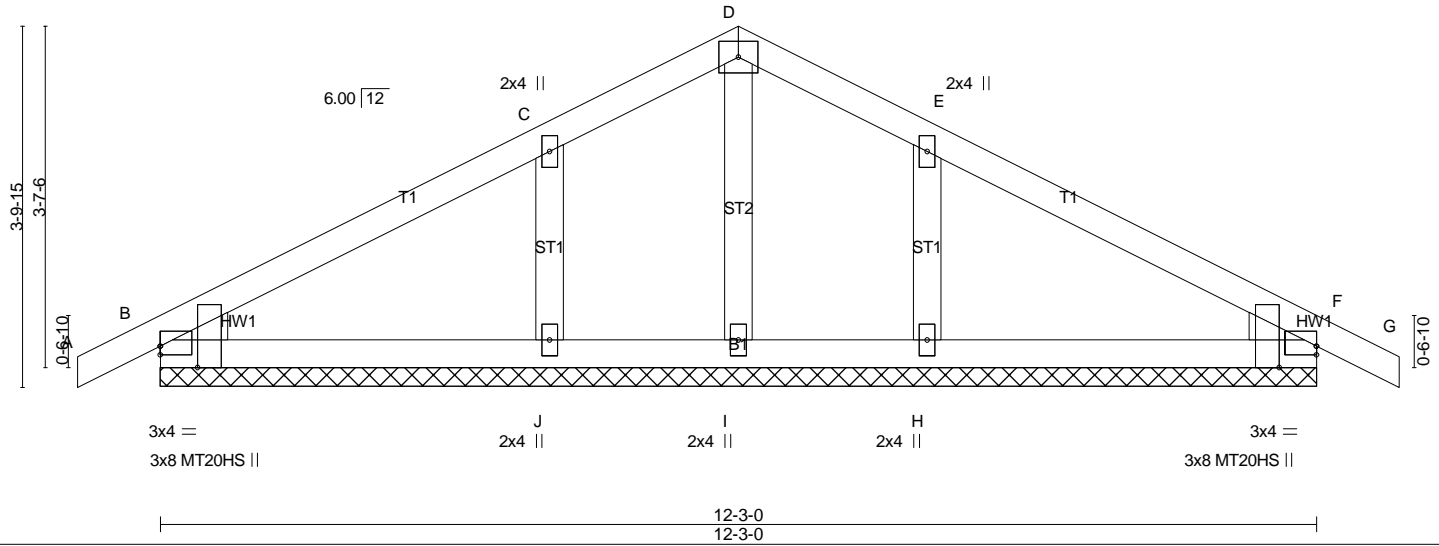
12-3-0
12-3-0

Plate Offsets (X,Y)-- [B:Edge,0-1-2], [B:0-2-11,Edge], [F:Edge,0-1-2], [F:0-2-11,Edge]

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.28	Vert(LL) 0.01 G n/r 120	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.14	Vert(TL) 0.02 G n/r 120	MT20HS 187/143
BCLL 0.0 *	Rep Stress Incr YES	WB 0.14	Horz(TL) 0.00 F n/a n/a	
BCDL 10.0	Code IRC2009/TPI2007	(Matrix)		Weight: 54 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 12-3-0.
(lb) - Max Horz B=-87(LC 9)
        Max Uplift All uplift 100 lb or less at joint(s) except B=-118(LC 8), F=-135(LC 9), J=-214(LC 8), H=-212(LC 9)
        Max Grav All reactions 250 lb or less at joint(s) B, F, I except J=337(LC 1), H=337(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   C-D=-51/251
WEBS   C-J=-237/477, E-H=-237/477

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) 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) 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) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit
    between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 118 lb uplift at joint B, 135 lb uplift at joint F,
    214 lb uplift at joint J and 212 lb uplift at joint H.
11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) F.
12) 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.
13) "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/Wayfare/
MASTER	C02	COMMON GIRDER	2	**2**	Job Reference (optional)

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Run: 7.640 s Apr 22 2016 Print: 7.640 s Apr 22 2016 MiTek Industries, Inc. Wed Jan 10 11:33:37 2018 Page 1
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5x6 ═

Scale = 1:24.4

6.00 ⌐12
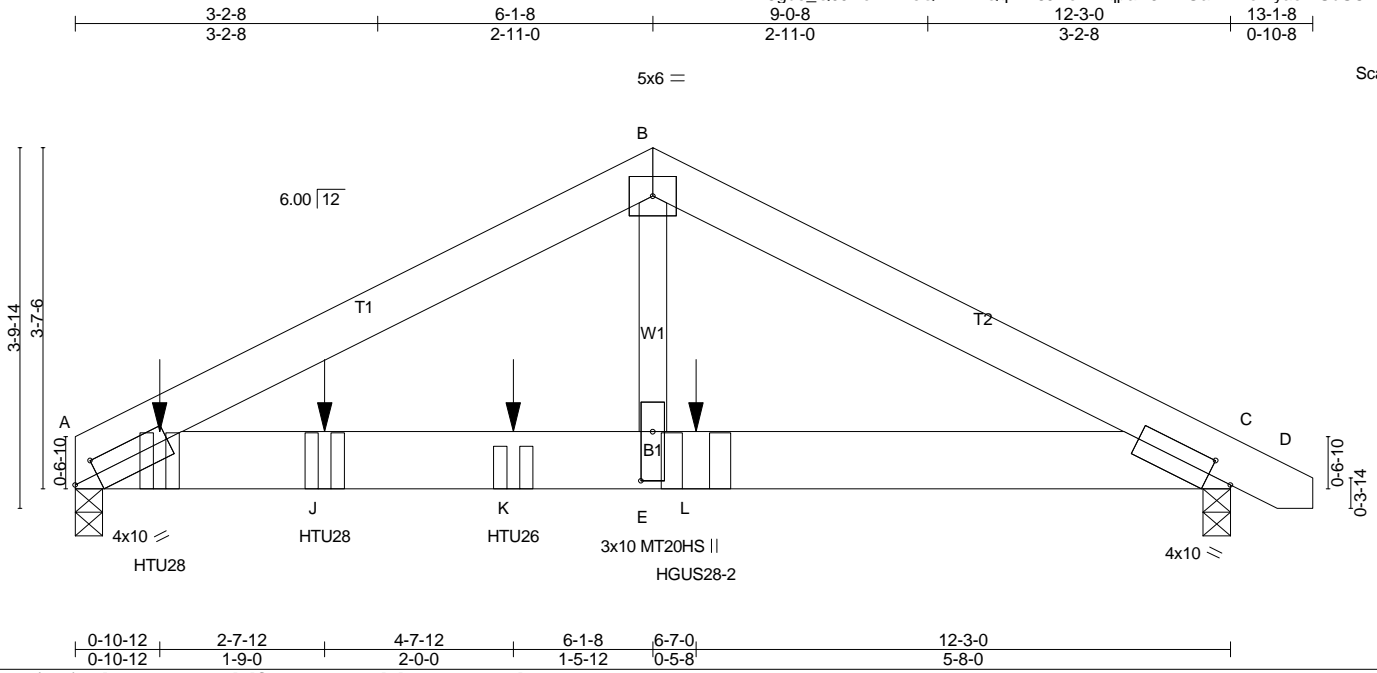
Plate Offsets (X,Y)-- [A:0-3-1,0-1-15], [C:0-3-1,0-1-15], [E:0-6-4,0-1-8]

LOADING (psf)		SPACING-		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.54	Vert(LL)	-0.06	E-G	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.56	Vert(TL)	-0.16	E-G	>934	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.59	Horz(TL)	0.02	C	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-M)		Wind(LL)	0.09	E-G	>999	240	Weight: 153 lb	FT = 20%

LUMBER-
TOP CHORD   2x6 SP No.2
BOT CHORD   2x8 SP DSS
WEBS   2x4 SP No.2

BRACING-
TOP CHORD   Structural wood sheathing directly applied or 5-6-11 oc purlins.
BOT CHORD   Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) A=4768/0-3-8 (min. 0-2-13), C=2823/0-3-8 (min. 0-1-11)
Max Horz A=-101(LC 7)
Max UpliftA=-1948(LC 6), C=-1392(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   A-B=-5884/2756, B-C=-5954/2780
BOT CHORD   A-J=-2403/5275, J-K=-2403/5275, E-K=-2403/5275, E-L=-2403/5275, C-L=-2403/5275
WEBS   B-E=-2212/4772

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
   Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
   Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-4-0 oc.
   Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise); end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
6) All plates are MT20 plates unless otherwise indicated.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1948 lb uplift at joint A and 1392 lb uplift at joint C.
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.
12) Use Simpson Strong-Tie HTU28 (26-10d Girder, 14-10dx1 1/2 Truss, Single Ply Girder) or equivalent spaced at 1-9-0 oc max. starting at 0-10-12 from the left end to 2-7-12 to connect truss(es) A11 (1 ply 2x6 SP), A12 (1 ply 2x6 SP) to back face of bottom chord.
13) Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss, Single Ply Girder) or equivalent at 4-7-12 from the left end to connect truss(es) A13 (1 ply 2x6 SP) to back face of bottom chord.
14) Use Simpson Strong-Tie HGUS28-2 (36-10d Girder, 12-10d Truss) or equivalent at 6-7-0 from the left end to connect truss(es) A14 (2 ply 2x6 SP) to back face of bottom chord.
15) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Wayfare/
MASTER	C02	COMMON GIRDER	2	**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. Wed Jan 10 11:33:37 2018 Page 2
ID:5gbe_Q0JNoiH4zfeQirvLHzQqXF-8JklofREqpaN3X2rGaKiXVoZfyaoiwUdSCYVxazwnaS

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
        Vert: A-B=-60, B-D=-60, A-C=-20
   Concentrated Loads (lb)
        Vert: G=-1345(B) J=-1335(B) K=-1338(B) L=-2552(B)

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Wayfare/
MASTER	D01	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. Wed Jan 10 11:33:38 2018 Page 1
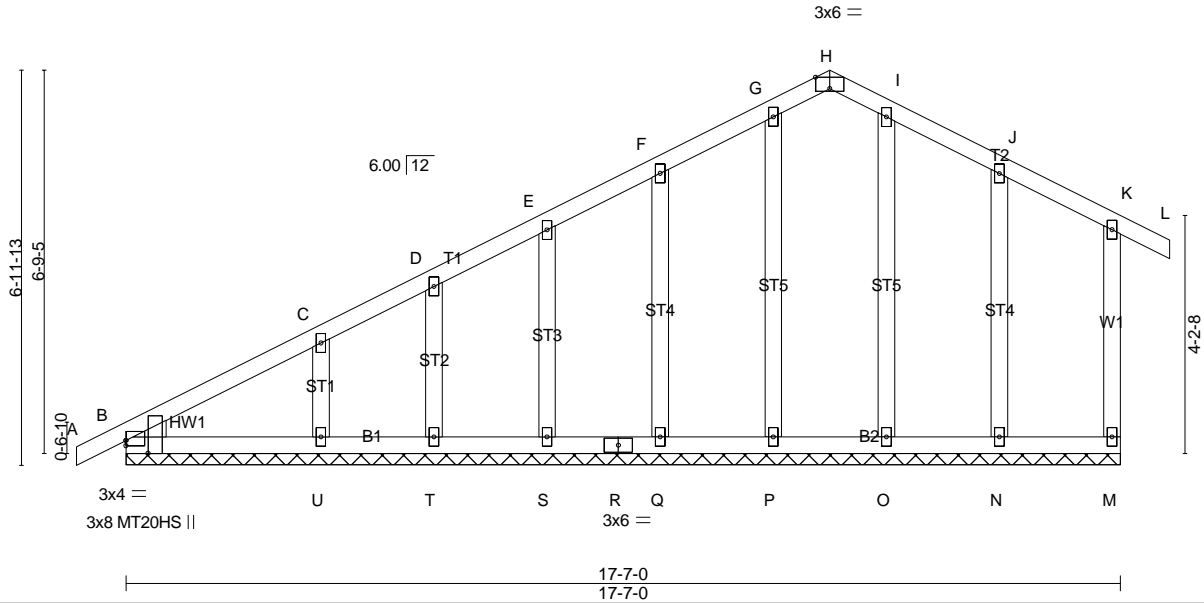ID:5gbe_Q0JNoiH4zfeQirvLHzQqXF-cVI70?Ssb7iEhhd1qHrx3iLopM1qRVAmhsH2U0zwnaR

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

LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	-0.00	L	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC	0.12	Vert(TL)	-0.00	L	n/r	120	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB	0.11	Horz(TL)	0.00	M	n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix)							Weight: 108 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 6-0-0 oc bracing.

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

REACTIONS.   All bearings 17-7-0.
      (lb) - Max Horz B=317(LC 7)
            Max Uplift All uplift 100 lb or less at joint(s) B, P, T except M=-206(LC 9), Q=-129(LC 8), S=-104(LC 8),
                  U=-178(LC 8), N=-130(LC 9)
            Max Grav All reactions 250 lb or less at joint(s) M, B, P, Q, S, T, O, N except U=268(LC 1)

FORCES.   (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   B-C=-365/118, E-F=-79/269, F-G=-29/400, G-H=-27/384, H-I=-27/386, I-J=-27/396,
             J-K=-30/284, K-M=-127/302
WEBS   F-Q=-120/271, C-U=-191/369

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) 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) 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) Gable requires continuous bottom chord bearing.
8) Gable studs spaced at 2-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will
    fit between the bottom chord and any other members.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) B, P, T except (jt=lb)
    M=206, Q=129, S=104, U=178, N=130.
12) 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.
13) "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/Wayfare/
MASTER	D02	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. Wed Jan 10 11:33:38 2018 Page 1
ID:5gbe_Q0JNoiH4zfeQirvLHzQqXF-cVI70?Ssb7iEhhd1qHrx3iLjRMusRLhmhsH2U0zwnaR
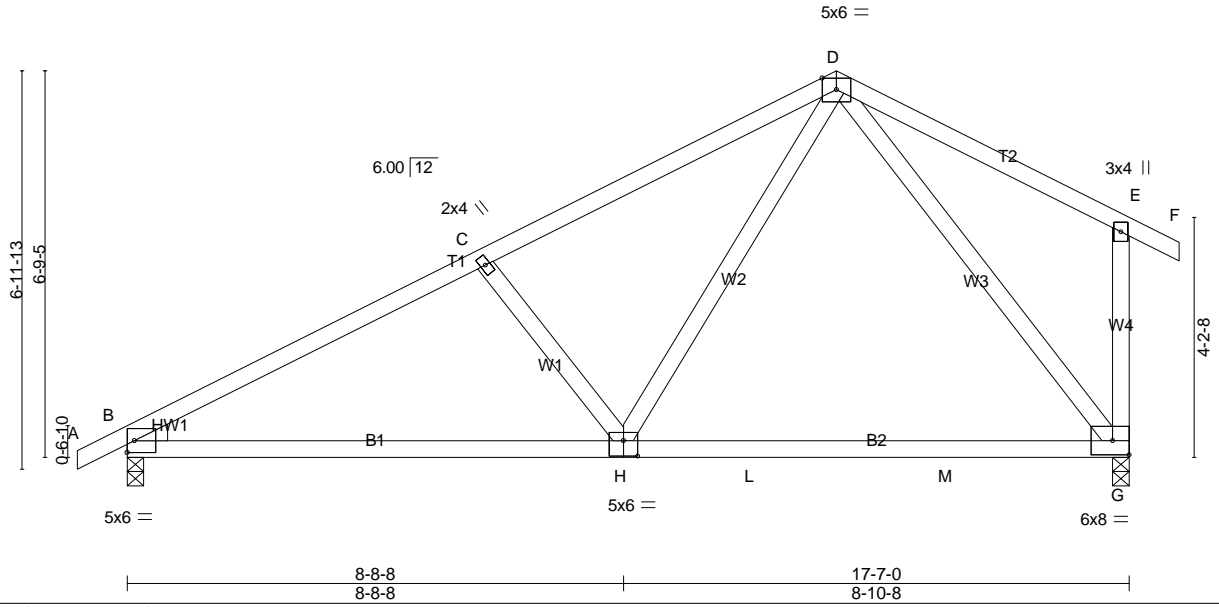
Plate Offsets (X,Y)-- [H:0-3-0,0-3-4]

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	0.61	Vert(LL)	-0.21	G-H	>998	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.69	Vert(TL)	-0.40	G-H	>523	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.72	Horz(TL)	0.02	G	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-S)		Wind(LL)	0.08	H-K	>999	240	Weight: 93 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS   2x4 SP No.3 *Except*
           W4: 2x4 SP No.2
WEDGE
Left: 2x4 SP No.3

BRACING-
TOP CHORD   Structural wood sheathing directly applied, except end verticals.
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=750/0-3-8 (min. 0-1-8), G=759/0-3-8 (min. 0-1-8)
           Max Horz B=314(LC 7)
           Max Uplift B=-355(LC 8), G=-277(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   B-C=-1045/975, C-D=-832/895, D-E=-118/380, E-G=-236/439
BOT CHORD   B-H=-1078/882, H-L=-461/386, L-M=-461/386, G-M=-461/386
WEBS   C-H=-372/638, D-H=-469/575, D-G=-576/605

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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=355, G=277.
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 ½" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Wayfare/
MASTER	D03	Common Girder	1	**2**	Job Reference (optional)

Builders FirstSource, N. Charleston, SC

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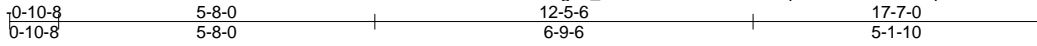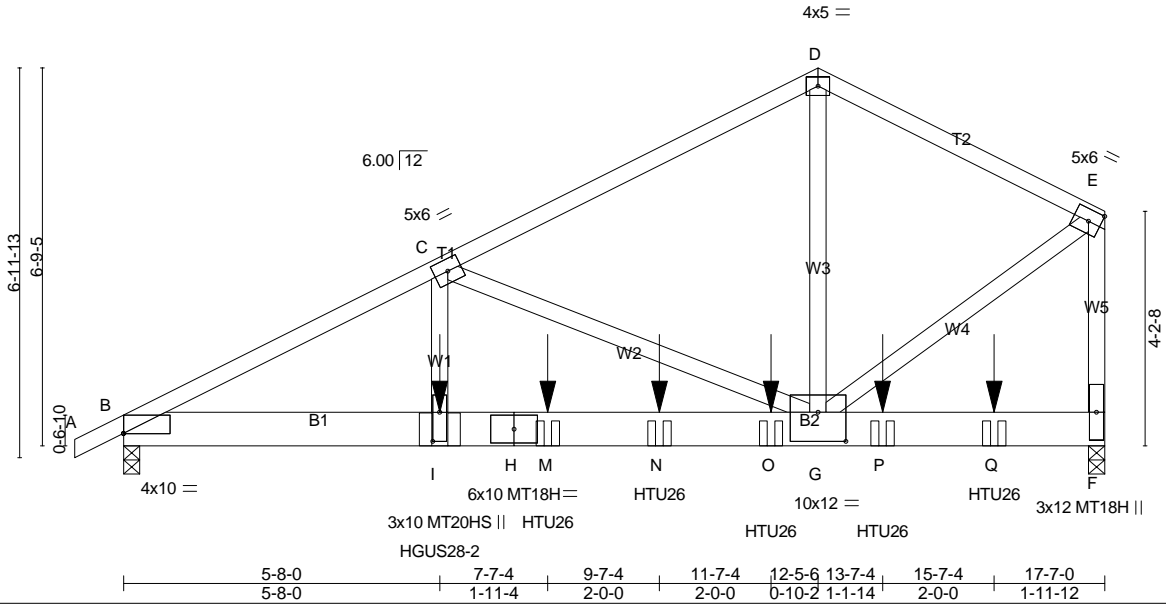
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Plate Offsets (X,Y)-- [B:0-0-0,0-0-1], [G:0-6-0,0-6-4], [I:0-6-4,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.88	Vert(LL)	-0.13	G-I	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.63	Vert(TL)	-0.32	G-I	>648	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	1.00	Horz(TL)	0.04	F	n/a	n/a	MT18H	244/190
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-M)		Wind(LL)	0.19	G-I	>999	240	Weight: 244 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, except end verticals.
BOT CHORD   Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) B=4753/0-3-8 (min. 0-2-13), F=6019/0-3-8 (req. 0-3-9)
Max Horz B=337(LC 5)
Max UpliftB=-2275(LC 6), F=-2393(LC 6)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   B-C=-9753/4533, C-D=-4721/1955, D-E=-4691/2000, E-F=-5342/2197
BOT CHORD   B-I=-4067/8660, H-I=-4067/8660, H-M=-4067/8660, M-N=-4067/8660, N-O=-4067/8660, G-O=-4067/8660
WEBS   C-I=-1931/3877, C-G=-4928/2722, D-G=-1524/3816, E-G=-2066/5164

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
   Top chords connected as follows: 2x4 - 1 row at 0-7-0 oc.
   Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-4-0 oc.
   Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise); end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
6) All plates are MT20 plates unless otherwise indicated.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) WARNING: Required bearing size at joint(s) F greater than input bearing size.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=2275 , F=2393.
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.
13) Use Simpson Strong-Tie HGUS28-2 (36-10d Girder, 12-10d Truss) or equivalent at 5-8-0 from the left end to connect truss(es) A01 (2 ply 2x6 SP) to back face of bottom chord.
14) Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 7-7-4 from the left end to 15-7-4 to connect truss(es) A02 (1 ply 2x4 SP), A03 (1 ply 2x6 SP), A04 (1 ply 2x6 SP), A05 (1 ply 2x6 SP), A06 (1 ply 2x6 SP) to back face of bottom chord.
15) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard
Continued on page 2

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
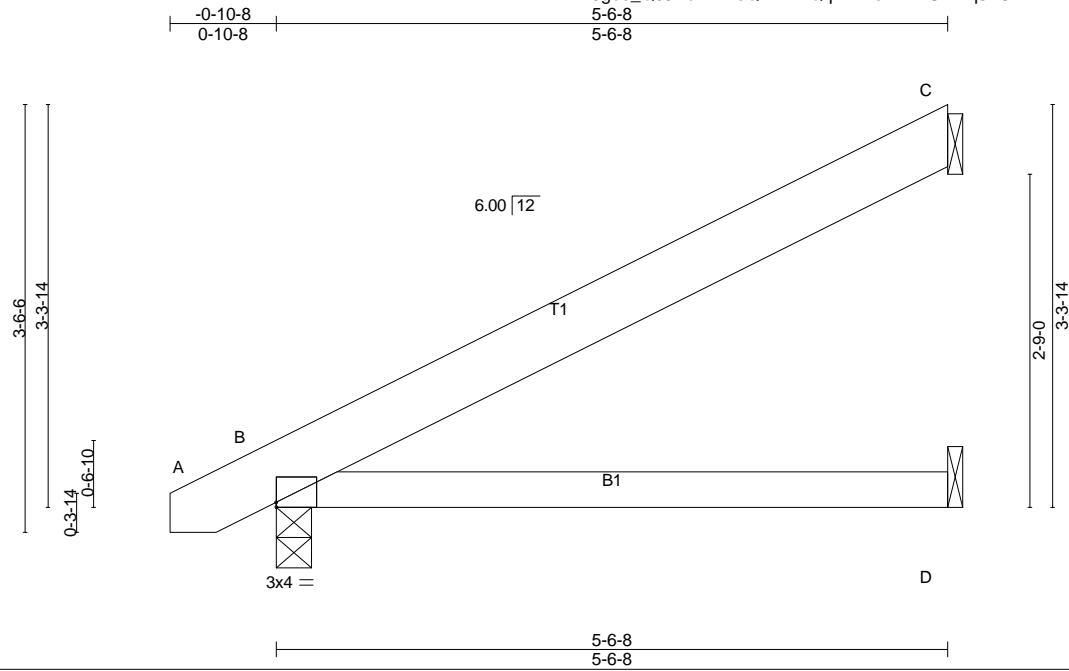   Uniform Loads (plf)
        Vert: A-D=-60, D-E=-60, F-J=-20
   Concentrated Loads (lb)
        Vert: I=-2551(B) M=-1350(B) N=-1356(B) O=-1356(B) P=-1356(B) Q=-1356(B)

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Wayfare/
MASTER	J01	JACK-OPEN	60	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. Wed Jan 10 11:33:39 2018 Page 1
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-0-10-8 | 5-6-8
0-10-8 | 5-6-8

Scale = 1:19.0

6.00 ⌐12

3-6-6
3-3-14
0-3-14
0-6-10

A
B
T1
C
2-9-0
3-3-14

B1
D

3x4 =

5-6-8
5-6-8

Plate Offsets (X,Y)-- [B:Edge,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	0.35	Vert(LL)	-0.02	D-G	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.31	Vert(TL)	-0.07	D-G	>946	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.01	C	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-S)		Wind(LL)	0.05	D-G	>999	240	Weight: 25 lb	FT = 20%

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

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

REACTIONS. (lb/size) C=165/Mechanical, B=264/0-3-8 (min. 0-1-8), D=51/Mechanical
Max Horz B=198(LC 8)
Max UpliftC=-155(LC 8), B=-115(LC 8)
Max Grav C=165(LC 1), B=264(LC 1), D=86(LC 3)

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

NOTES-
1) 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
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) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) C=155,
   B=115.
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 ½" gypsum
   sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Wayfare/
MASTER	J02	HALF HIP	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. Wed Jan 10 11:33:40 2018 Page 1
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0-10-8   3-6-0   2-0-8

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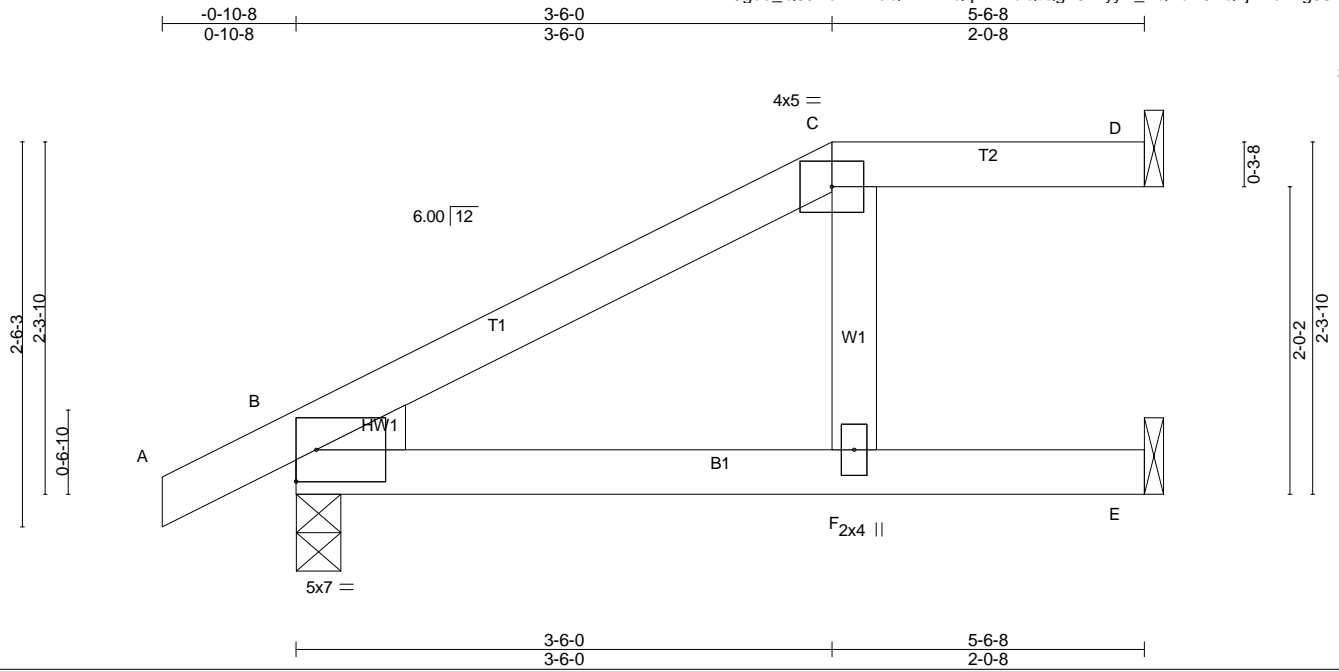
LOADING (psf)		SPACING-		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	-0.07	F-I	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.74	Vert(TL)	-0.18	F-I	>369	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.11	Horz(TL)	-0.11	D	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-S)		Wind(LL)	0.19	F-I	>346	240	Weight: 22 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
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=59/Mechanical, B=276/0-3-8 (min. 0-1-8), E=156/Mechanical
Max Horz B=149(LC 8)
Max UpliftD=-48(LC 6), B=-148(LC 8), E=-54(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS   C-F=-172/368

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) 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) D, E except (jt=lb)
   B=148.
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 ½" 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/Wayfare/
MASTER	J03	HALF HIP GIRDER	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. Wed Jan 10 11:33:41 2018 Page 1
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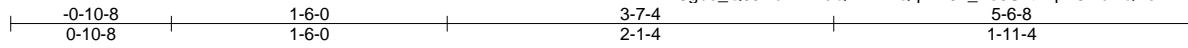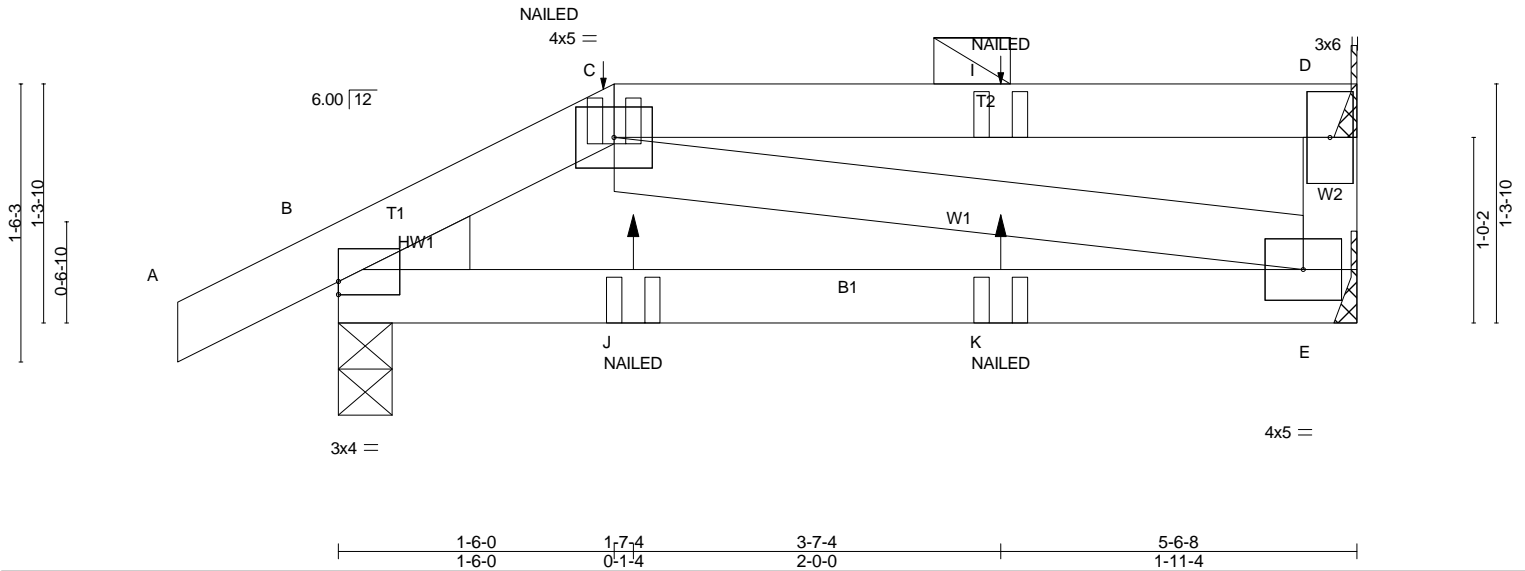
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Plate Offsets (X,Y)-- [B:Edge,0-0-14]

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	0.33	Vert(LL)	-0.02	E-H	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC	0.29	Vert(TL)	-0.06	E-H	>999	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB	0.06	Horz(TL)	0.00	D	n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix-M)		Wind(LL)	0.01	E-H	>999	240	Weight: 26 lb	FT = 20%

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

BRACING-
TOP CHORD   Structural wood sheathing directly applied or 5-6-8 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=117/Mechanical, E=92/Mechanical, B=273/0-3-8 (min. 0-1-8)
Max Horz B=74(LC 16)
Max UpliftD=-95(LC 4), E=-25(LC 5), B=-166(LC 6)
Max Grav D=117(LC 1), E=118(LC 3), B=273(LC 1)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise); end vertical left and right 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 metal plate or equivalent at bearing(s) D to support reaction shown.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) D, E except (jt=lb) B=166.
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.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
13) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
14) "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.
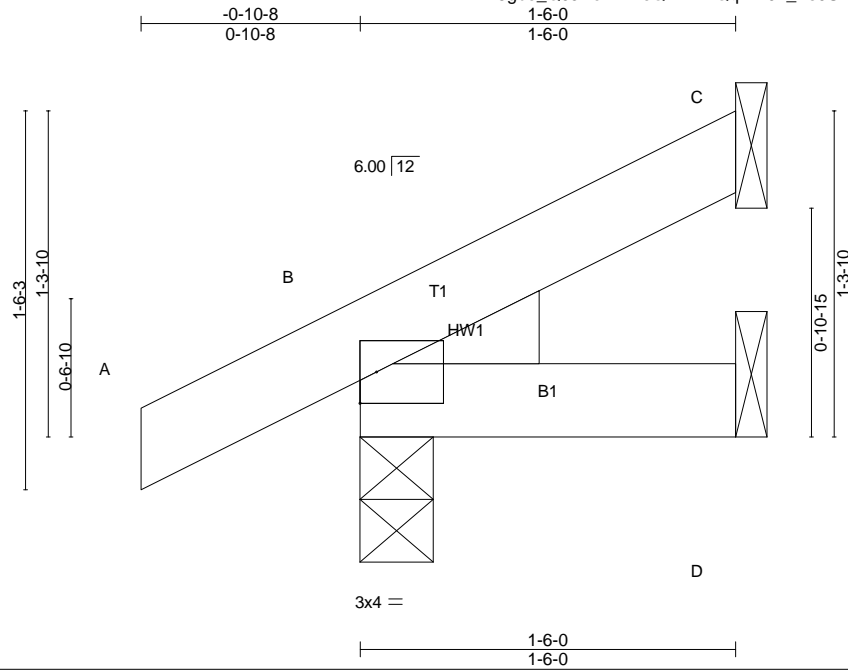15) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-C=-60, C-D=-60, E-F=-20
Concentrated Loads (lb)
Vert: J=2(F) K=2(F)

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Wayfare/
MASTER	J04	JACK-OPEN	8	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. Wed Jan 10 11:33:41 2018 Page 1
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-0-10-8 | 1-6-0
0-10-8 | 1-6-0

Scale = 1:9.2

6.00 ⟌12

3x4 ⥿

1-6-0
1-6-0

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	0.10	Vert(LL)	-0.00	G	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(TL)	-0.00	G	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	C	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-M)		Wind(LL)	0.00	G	>999	240	Weight: 7 lb	FT = 20%

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

BRACING-
TOP CHORD   Structural wood sheathing directly applied or 1-6-0 oc purlins.
BOT CHORD   Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS. (lb/size)   C=33/Mechanical, B=128/0-3-8 (min. 0-1-8), D=12/Mechanical
Max Horz B=87(LC 8)
Max UpliftC=-33(LC 8), B=-101(LC 8)
Max Grav C=33(LC 1), B=128(LC 1), D=25(LC 3)

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

NOTES-
1) 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
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) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) C except (jt=lb)
   B=101.
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) "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/Wayfare/
MASTER	J05	MONOPITCH	12	1	Job Reference (optional)

Scale = 1:15.5
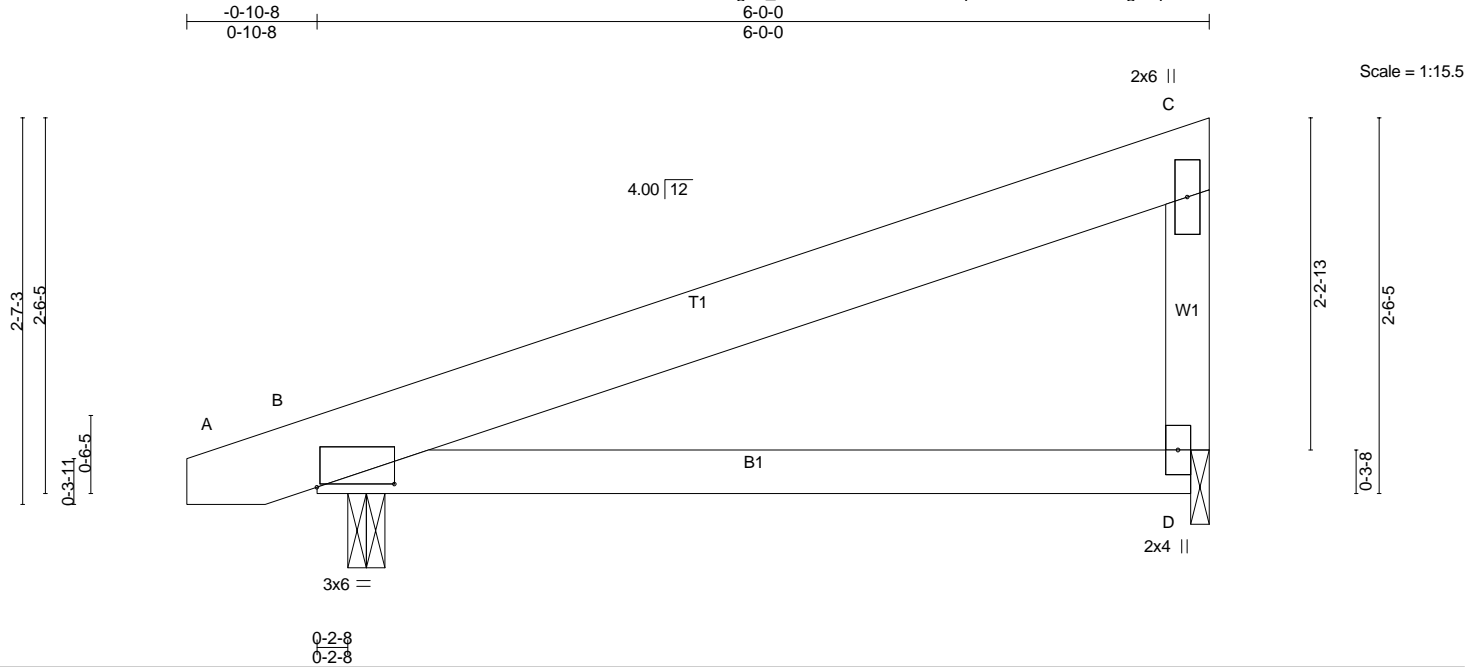
Plate Offsets (X,Y)-- [B:0-6-4,0-0-4]

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	0.52	Vert(LL)	-0.03	D-G	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.58	Vert(TL)	-0.08	D-G	>850	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-S)		Wind(LL)	0.16	D-G	>431	240	Weight: 28 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
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=275/0-3-0 (min. 0-1-8), D=230/0-1-8 (min. 0-1-8)
Max Horz B=137(LC 6)
Max UpliftB=-279(LC 6), D=-263(LC 6)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD C-D=-176/435

NOTES-
1) 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; 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 100 lb uplift at joint(s) except (jt=lb) B=279, D=263.
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 ½" 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